



















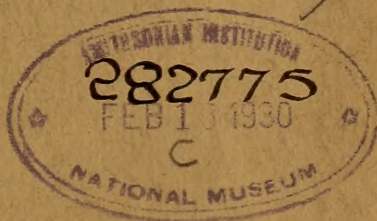
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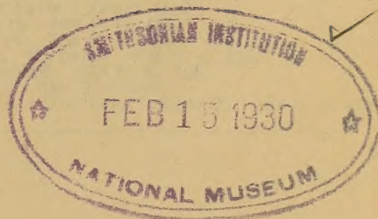
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1929



UNITED STATES  
GOVERNMENT PRINTING OFFICE  
WASHINGTON : 1930



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# ALPHABETICAL LIST

## OF

# PATENTEEES FOR THE YEAR 1929

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Disclaimers follow in separate indexes, but precede the Alphabetical List of Inventions.

- A. B. A. Specialties Company. (See Fridolph, Annette, assignor.)
- A. B. See Elevator Company. (See Jackson, Joseph R., jr., assignor.)
- A. B. See Elevator Company. (See Lindstrom, Nils O., assignor.)
- A. B. See Elevator Company. (See Lindstrom, N. O., and Olofson, assignors.)
- A. B. See Elevator Company. (See Olofson, Carl F. E., assignor.)
- A C Spark Plug Company. (See Rabezana, Hector, assignor.)
- A C Spark Plug Company. (See Babitch, Abraham, assignor.)
- A C Spark Plug Company. (See Berge, Joseph, assignor.)
- A C Spark Plug Company. (See Berge, Louis, assignor.)
- A C Spark Plug Company. (See Blair, Mark L., assignor.)
- A C Spark Plug Company. (See Champion, Albert, assignor.)
- A C Spark Plug Company. (See Dinsmore, Clarence B., assignor.)
- A C Spark Plug Company. (See Eshbaugh, Jesse E., assignor.)
- A C Spark Plug Company. (See Gustafson, Edwin A., assignor.)
- A C Spark Plug Company. (See Harry, Gordon W., assignor.)
- A C Spark Plug Company. (See Helgeby, Ralph O., assignor.)
- A C Spark Plug Company. (See Howard, Sumner S., assignor.)
- A C Spark Plug Company. (See Jones, Herman, assignor.)
- A C Spark Plug Company. (See Kamrath, Herbert G., assignor.)
- A C Spark Plug Company. (See Keeney, Don E., assignor.)
- A C Spark Plug Company. (See McDougal, Taine G., assignor.)
- A C Spark Plug Company. (See McKinley, Charles W., assignor.)
- A C Spark Plug Company. (See Nutt, Frank N., assignor.)
- A C Spark Plug Company. (See Rabezana, Hector, assignor.)
- A C Spark Plug Company. (See Short, C. R., and Cash, assignors.)
- A C Spark Plug Company. (See Zeibig, Bruno H., assignor.)
- A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
- A. G. für Chemische Industrie in Liechtenstein. (See Thalhofer, Walter, assignor.)
- A. G. Kummier & Matter. (See Wuthrich, Frederic, assignor.)
- A. M. A. C. Limited. (See Guy, William L., assignor.)
- A. M. A. C. Limited. (See Knight, James S., assignor.)
- A T G Allgemeine Transportanlagen-Gesellschaft m. b. H. (See Bernhard, Johann M., assignor.)
- A and Z Chain Company. (See Dalo, John, assignor.)
- Aalborg, Christian, Pittsburgh, Pa. Vacuum cleaner. 1,702,424; Feb. 19.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,700,870; Feb. 5.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,700,871; Feb. 5.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,700,872; Feb. 5.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker tank. 1,709,648; Apr. 16.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,725,122; Aug. 20.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,732,801; Oct. 22.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker system. 1,740,581; Dec. 24.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil-circuit interrupter. 1,741,966; Dec. 31.
- Aaron, Albert, and S. Benjamin, Gloversville, assignors to Louis Meyers & Son, Inc., New York, N. Y. Binding. 1,742,117; Dec. 31.
- Aaron, Max N., assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Elastic strap and making same. 1,713,637; May 21.
- Aaron, Samuel J., Brooklyn, N. Y. Fixture supporting and connecting device. 1,698,707; Jan. 15.
- Aaronson, Henry A., New York, N. Y. Preparing penterythritetranitrate. 1,705,699; Mar. 19.
- Aarts, Christianus J. G., The Hague, Netherlands. Extracting metals from their compounds. 1,712,641; May 14.
- Aasen, Marith X., Minneapolis, Minn. Garbage bag. 1,698,462; Jan. 8.
- Aastrup, Axel V., Stockholm, Sweden. Kneading and whipping machine. 1,733,291; Oct. 29.
- Abadie, Lucian, et al., trustees. (See Gruss, Francis K., assignor.)
- Abati, Alfonso. (See Operato, Silvio, assignor.)
- Abbe, Edward J., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. 1,738,272; Dec. 3.
- Abbe Engineering Co. (See Kleinfeldt, Henry F., assignor.)
- Abbe, George C., assignor to American Road Machinery Company, Kennett Square, Pa. Snowplow. 1,703,088; Feb. 26.
- Abbe, George C., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Snowplow. 1,708,042; Apr. 9.
- Abbe, George C., assignor to American Road Machinery Company, Kennett Square, Pa. Chain-connecting device. 1,709,244; Apr. 16.
- Abbe, George C., assignor to American Road Machinery Company, Kennett Square, Pa. Snow fence. 1,721,894; July 23.
- Abbey, Orville E., Corning, Iowa. Automobile license-certificate container. 1,702,189; Feb. 12.
- Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Machine and method for assembling curing bags in tire casings. 1,703,918; Mar. 5.
- Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Machine for use in the manufacture of tires. 1,703,919; Mar. 5.
- Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Method of and apparatus for manufacturing pneumatic tires. 1,715,973; June 4.
- Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Vulcanizing bag. 1,721,583; July 23.
- Abbott, Adrian O., jr., Grosse Pointe Park, Mich. Valve-tappet construction. 1,729,468; Sept. 24.
- Abbott, Augustus, San Diego, Calif., assignor, by mesne assignments, to Taylor Brothers Manufacturing Corporation, Elkhart, Ind. Sugar-dispensing container. 1,707,967; Apr. 2.
- Abbott, Augustus, San Diego, Calif., assignor, by mesne assignments, to Taylor Brothers Manufacturing Corporation, Elkhart, Ind. Sugar-dispensing container. 1,727,799; Sept. 10.
- Abbott Ball Company, The. (See Abbott, George E., assignor.)
- Abbott, Carl, Newbury, Vt. Badge or similar article. Des. 79,317; Sept. 3.
- Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Heating unit and making it. 1,698,289; Jan. 8.
- Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric heater. 1,708,961; Apr. 16.
- Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Electric soldering iron. 1,708,995; Apr. 16.
- Abbott, Charles C., Pittsfield, Mass., assignor to General Electric Company. Heating unit. 1,731,120; Oct. 8.
- Abbott, Charles C., and W. F. Gelinas, Pittsfield, Mass., assignors to General Electric Company. Electric heater. 1,713,249; May 14.
- Abbott, Charles C., and A. E. Hunt, Pittsfield, Mass., assignors to General Electric Company. Electric heater. 1,731,119; Oct. 8.
- Abbott, Charles C., and G. D. Milnes, Pittsfield, Mass., assignors to General Electric Company. Electric heating unit. 1,718,676; June 25.



- Abbott, Earle D. (See Abbott, Ross P., W. W., and E. D.)
- Abbott, Edward J., Wilton, N. H. Sampling pad and process of and apparatus for making the same. 1,704,418; Mar. 5.
- Abbott, Edward J. and W. G., jr., Wilton, N. H. Automatic winding machine. 1,700,425; Jan. 29.
- Abbott, Geoffrey J., assignor to P. I. V. Chain Gears Limited, London, England. Variable-speed gear. 1,738,552; Dec. 10.
- Abbott, George E., West Hartford, Conn. Measuring machine. 1,703,083; Feb. 26.
- Abbott, George E., assignor to The Abbott Ball Company, West Hartford, Conn. Ball-blank-forming machine. 1,726,464; Aug. 27.
- Abbott, Harry W., Cicero, Ill. Window. 1,700,396; Jan. 29.
- Abbott, Henry H., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system for subscribers' telephone circuits. 1,738,519; Dec. 10.
- Abbott, Henry H., New York, N. Y., and G. W. Kuhn, Glen Rock, N. J., assignors to American Telephone and Telegraph Company. Testing apparatus for electrical circuit. 1,730,402; Oct. 8.
- Abbott Laboratories. (See Adams, Roger, assignor.)
- Abbott Laboratories. (See Adams, R., and Barnes, assignors.)
- Abbott Laboratories. (See Volwiler, E. H., and Tabern, assignors.)
- Abbott, Lyle S., Chicago, Ill. Furnace construction. 1,711,821; May 7.
- Abbott, Lyle S., Chicago, Ill. Fire arch for furnaces. 1,711,822; May 7.
- Abbott, Ross P., W. W., and E. D., Crafton, Pa. Toy. 1,724,447; Aug. 13.
- Abbott, William G., jr. (See Abbott, Edward J. and W. G., jr.)
- Abbott, William H., Lennoxville, Quebec, Canada. Closure fastener. 1,700,013; Jan. 22.
- Abbott, William W. (See Abbott, Ross P., W. W., and E. D.)
- Abbotts Dairies, Inc. (See Kennedy, Ridgway R., assignor.)
- Abby, Warren, Marina, assignor of 37½ per cent to Frederick C. Rockwell, Carmel, Calif. Exterminator. 1,722,833; July 30.
- Abel, Carl C., assignor of one-fifth to J. P. Jensen, Rockford, Ill. Airplane. 1,708,249; Apr. 9.
- Abel, Edward K., Jacksonville, Fla. Stencil-cutting device. 1,731,088; Oct. 8.
- Abel, Emil, Dortmund, Germany. Arrangement for resetting derailed railway vehicles on the rails. 1,720,111; July 9.
- Abel, Flora, New York, N. Y. Typewriting machine. 1,732,738; Oct. 22.
- Abel, Henry W., Brillion, Wis. Animal trap. 1,722,879; July 30.
- Abel, Joseph C., assignor of one-eighth to T. C. Vandruif, one-fourth to J. H. Clevenger, one-eighth to A. E. Burris, one-eighth to J. H. Comer, one-eighth to E. L. Nickell, one-eighth to M. A. Nickell, and one-eighth to W. E. Schwaber, Hominy, Okla. Automatic cut-off device. 1,724,389; Aug. 13.
- Abel, Walter L., Hominy, Okla. Automatic shut-off valve. 1,705,169; Mar. 12.
- Abel, Walter T., assignor to The Patent Button Company, Waterbury, Conn. Stick pin. 1,698,575; Jan. 8.
- Abel, Walter T., assignor to The Patent Button Company, Waterbury, Conn. Tack button. 1,707,592; Apr. 2.
- Abel, Walter T., assignor to The Patent Button Company, Waterbury, Conn. Button-forming machine. 1,711,218; Apr. 30.
- Abell, Rollin, Milton, Mass. Engine starter. 1,705,464; Mar. 19.
- Abell, Rollin, Milton, Mass., and J. Crawford, Detroit, Mich.; said Crawford assignor, by mesne assignments, to said Abell. Engine starter. 1,732,294; Oct. 22.
- Abendroth Brothers. (See Seely, Frank E., assignor.)
- Abendroth, Wilhelm, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Hydraulic relay for regulating apparatus. 1,16,408; June 11.
- Aberfoyle Manufacturing Company. (See Ashton, Francis E., assignor.)
- Aberg, William A., Washington, D. C. Landing gear. 1,732,209; Oct. 15.
- Aberle, Edward, Nutley, N. J. Loose-leaf binder. 1,710,331; Apr. 23.
- Aberle, Otto, Tuttlingen, Germany. Hand brush. 1,728,712; Sept. 17.
- Abernethy, Henry, Berkeley, Calif. Windshield cleaner. 1,717,904; June 18.
- Abid, Andreas, Berlin, A. Jipp, Berlin-Spandau, Otto Steiner, Berlin-Charlottenburg, and F. Tůček, Berlin, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Image-drum arrangement for the transmission of images. 1,723,641; Aug. 6.
- Abolin, Harry T., Hasbrouck Heights, assignor to Lin-crusta-Walton Company, Hackensack, N. J. Wall covering or similar article of manufacture in sheet form. Des. 80,158; Dec. 24.
- Aborn, Edward, East Orange, N. J. Coffee-pot. 1,740,136; Dec. 17.
- Abraham, Earl A. (See Moyers, G. L., and Abraham.)
- Abraham, Leonard G., Leonia, N. J., assignor to American Telephone and Telegraph Company. Electrooptical transmission. 1,705,551; Mar. 19.
- Abrahams, Alexander I., and E. J. Jonssens, New York, N. Y., assignors to Dynamic Unit Corporation of America, New York, N. Y. Electromagnetic driving unit. 1,711,514; May 7.
- Abrahams, Julius. (See Michael, Frederick R., assignor.)
- Abrahams, Max, New York, N. Y. Acoustic horn. 1,722,448; July 30.
- Abrahamsen, Alfred W., and A. Skarsten, Queens Village, N. Y. Floor scraper. 1,735,710; Nov. 12.
- Abrahamson, Bernhard H., Jamestown, N. Y. Automobile tool. 1,699,039; Jan. 15.
- Abrahamson, Ole C., Rockford, Ill. Hand bag. 1,719,641; July 2.
- Abram, Ira M., Dugger, Ind. Surfacter. 1,713,513; May 21.
- Abramowitz, Joseph, Madison, assignor of fifty per cent to J. Selb, Venice, Ill. Arch support. 1,700,462; Jan. 29.
- Abrams, Mose L., Cleveland, and A. J. Gies, Parma Township, Cuyahoga County, Ohio. Printing machine. 1,716,942; June 11.
- Abramson, Alexander, Prague, Czechoslovakia. Power-transmission for the driving wheels of motor vehicles. 1,718,099; June 18.
- Abramson, John H., assignor to Greenlee Bros. & Co., Rockford, Ill. Expansive bit. 1,740,055; Dec. 17.
- Abramson, Max, Jersey City, N. J. Check protector. 1,709,106; Apr. 16.
- Abrial, Martin R. (See Holmes, E. R., and Abrial.)
- Absolute Con-Tac-Tor Corporation. (See Phelan, Louis A. M., assignor.)
- Abson, Gene. (See Kirschbraun, L., Rossbacher, and Abson.)
- Accelrite Manufacturing Co. Inc. (See Wright, Charles B., assignor.)
- Accounting & Tabulating Corporation, The. (See Thomas, Arthur, assignor.)
- Ace Company, The. (See Bedel, Anselm L.)
- Aceto, Victor E., New York, N. Y. Tobacco-can ash tray. 1,701,833; Feb. 12.
- Acetol Products, Inc. (See Mueller, M., and Blakely, assignor.)
- Acetylene Stove Manufacturing Company, The. (See Davis, Ernest L., assignor.)
- Achan y Portillo, Angel M. (See Blasco, L. E., and Achan y Portillo.)
- Acheson, Alice S., Washington, D. C. Luggage. 1,703,132; Feb. 26.
- Acheson, Clark E., Los Angeles, Calif. Trumpet. 1,724,632; Aug. 13.
- Acheson, Edwin S., Richmond Heights, Mo. Liquid rheostat. 1,707,070; Mar. 26.
- Acheson Graphite Company. (See Hake, Donald S., assignor.)
- Acheson Manufacturing Company. (See Robertshaw, Frederick C., assignor.)
- Achille Serre Limited. (See Hatfield, Arthur E., assignor.)
- Achilles, Friedrich, Aachen, Germany. Card clothing. 1,741,597; Dec. 31.
- Achterkirch, William C., Ogilvie, Minn. Fence post. 1,704,644; Mar. 5.
- Achuff, Walter D., St. Louis, Mo. Railroad-rail anchor. 1,721,541; July 23.
- Acker, Edwin. (See Martinelli, F., and Acker.)
- Acker, George H., assignor to The Cleveland Worm and Gear Company, Cleveland, Ohio. Worm-gear reduction unit. 1,741,671; Dec. 31.
- Acker, Miriam C., assignor to Isabey-Paris, Inc., New York, N. Y. Lip-stick holder. Des. 80,211; Dec. 31.
- Ackerly, Donald G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Manufacture of electrical rectifiers. 1,709,830; Apr. 23.
- Ackerly, Donald G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Unidirectional current-carrying device. 1,715,691; June 4.
- Ackerly, Donald G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Machine for applying powdered material to articles. 1,724,543; Aug. 13.
- Ackerly, Donald G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Abrading machine. 1,724,544; Aug. 13.
- Ackerman, Albert H., Chicago, Ill., assignor, by mesne assignments, to Ackermite Company, Janesville, Wis. Copper and lead alloy and producing the same with varying physical properties. 1,724,896; Aug. 20.
- Ackerman, Albert H., assignor to Catalytic Chemical Company, Chicago, Ill. Process and material for treating oil wells to enhance their productivity. 1,734,990; Nov. 12.
- Ackerman, Albert H., Chicago, Ill., assignor to Catalytic Chemical Company. Treating mineral oils. 1,742,020; Dec. 31.
- Ackerman, Albert H., Chicago, Ill., assignor to Catalytic Chemical Company, Denver, Colo. Treating lubricating oil stock. 1,742,021; Dec. 31.
- Ackerman-Blaesser-Fezzey, Inc. (See Ackerman, Edward L., assignor.)
- Ackerman-Blaesser-Fezzey, Inc. (See Schassberger, Norman A., assignor.)
- Ackerman, Dolietta M., Long Beach, Calif. Massage applicator. 1,704,960; Mar. 12.



- Ackerman Door Interviewer Corp. (See Ackerman, George W., assignor.)
- Ackerman, Edward L., assignor to Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich. Ventilator. 1,723,995; Aug. 13.
- Ackerman, Eli O., Columbus, Ohio. Operating railway rolling stock to prevent rail corrugation. 1,718,100; June 18.
- Ackerman, Ernest W., and G. C. Nicholson, assignors to Hydro-Check Corporation, Monroe, Mich. Rebound device piston. 1,733,851; Oct. 29.
- Ackerman, Frank, St. Louis, assignor to Curtis Manufacturing Company, Wellston, Mo. Stop-switching apparatus for engine-driven compressors. 1,723,996; Aug. 13.
- Ackerman, Frank, St. Louis, assignor to Curtis Manufacturing Company, Wellston, Mo. Portable apparatus. 1,741,598; Dec. 31.
- Ackerman, George W., New York, N. Y. Grille. Des. 77,454; Jan. 15.
- Ackerman, George W., assignor to Ackerman Door Interviewer Corp., New York, N. Y. Grille. 1,706,835; Mar. 26.
- Ackerman, Harold T., Detroit, assignor to himself, J. W. Matteson, and E. Prouty, Highland Park, Mich. Truck and bus identifying light. 1,737,398; Nov. 26.
- Ackerman, Samuel, Philadelphia, Pa. Sanitary combined cuspidor. 1,698,382; Jan. 8.
- Ackerman, William H., Ferndale, Mich. Folding dressing table. 1,698,981; Jan. 15.
- Ackermann, Franz, Binningen, near Basel, and P. Schetelig, Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Condensation product of the anthraquinone series and making same. 1,719,792; July 2.
- Ackermite Company. (See Ackerman, Albert H., assignor.)
- Ackley, Raymond E., Chicago, Ill., assignor to R. R. Donnelly & Sons Company. Chain for pressure belts. 1,704,419; Mar. 5.
- Ackley, Raymond E., Chicago, Ill., assignor to R. R. Donnelly & Sons Co. Straight-line bookbinding machine. 1,704,454; Mar. 5.
- Acly, Harry M., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. 1,708,859; Apr. 9.
- Acme Auto Top and Painting Company. (See Bassion, Morris.)
- Acme Card System Company. (See Johnston, Frank H., assignor.)
- Acme Card System Company. (See Powell, Frank D., assignor.)
- Acme Electric Manufacturing Co. (See Baenziger, Leonard, assignor.)
- Acme Heel Company. (See Shaw, Linus H., assignor.)
- Acme Knitting Machine & Needle Company. (See Murphy, Gilbert, assignor.)
- Acme Knitting Machine & Needle Company. (See Murphy, G., and Simond, assignors.)
- Acme Motion Picture Projector Company. (See De Vault, Ralph P., assignor.)
- Acme Motion Picture Projector Company. (See Moulton, Forest R., assignor.)
- Acme Road Machinery Company. (See Cook, David B., assignor.)
- Acme Steel Company. (See MacChesney, Chester M., assignor.)
- Acme Steel Company. (See MacChesney, C. M., and Ott, assignors.)
- Acme Steel Company. (See Ott, John E., assignor.)
- Acme White Lead and Color Works. (See Ware, Elmer E., assignor.)
- Acocella, Philip F., Brooklyn, N. Y. Hat protector. 1,716,537; June 11.
- Acosta, José, New York, N. Y. Cabinet for radios and phonographs. 1,710,465; Apr. 23.
- Acosta, Manuel. (See Burke, G., and Acosta.)
- Acoustic Products Company. (See Hutchison, Miller R., assignor.)
- Acres, Thomas H., jr., Los Angeles, Calif. Combination cutter and vise. 1,727,225; Sept. 3.
- Acro Aktiengesellschaft. (See Lang, Franz, assignor.)
- Acton, John, London, England. Paper-folding apparatus. 1,698,665; Jan. 8.
- Adair, George P., Schenectady, N. Y., assignor to General Electric Company. Signaling system. 1,739,340; Dec. 10.
- Adam, Alex J., San Antonio, Tex. Cam and valve lifter. 1,708,749; Apr. 9.
- Adam, Alex J., San Antonio, Tex. Valve mechanism. 1,741,090; Dec. 24.
- Adam, Auguste E., Wimeroux, France. Headlight-turning means for vehicles. 1,740,913; Dec. 24.
- Adam, Edmond P., and R. L. Metaller, Paris, France. Spark plug. 1,732,827; Oct. 22.
- Adam, Folger, Joliet, Ill. Fence machine and the like. 1,711,194; Apr. 30.
- Adam, Fred E., St. Louis, Mo. All-master, multicontact, pilot switch. 1,736,991; Nov. 26.
- Adam, Maria M., Washington, D. C. Electric water heater. 1,716,996; June 11.
- Adam, Matthew A., London, England. Apparatus for the electrolytic production of metallic powders. 1,728,989; Sept. 24.
- Adam, Robert M., assignor to J. H. McClatchy, Philadelphia, Pa. Building apparatus. 1,720,987; July 16.
- Adamaitis, Mathew I., assignor of one-half to S. F. Ragan, Chicago, Ill. Lamp shade. 1,708,714; Apr. 9.
- Adamczyk, Alois, White Plains, N. Y. Jar holder and cover. 1,731,405; Oct. 15.
- Adamowicz, Philip J., Chicago, Ill. Bird cage. 1,741,967; Dec. 31.
- Adams, Adolph A., Philadelphia, Pa. Windmill. 1,708,374; Apr. 9.
- Adams, Archibald C., and C. W. Sullivan, Lima, Ohio. Fan mounting. 1,723,116; Aug. 6.
- Adams, Arthur H., jr., Princeton, N. J. Paper knife. Des. 77,721; Feb. 19.
- Adams, Arthur H., La Grange, Ill., assignor to Troy Laundry Machinery Company, Inc., New York, N. Y. Laundry-drier-control apparatus. 1,707,547; Apr. 2.
- Adams, Arthur H., and C. H. Franks, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Winding coils. 1,713,941; May 21.
- Adams, Arthur H., Lakeville, Conn., assignor to H. Epstein, Newark, N. J. Spot-dyeing clamp. 1,722,781; July 30.
- Adams, Arthur J., Huntington Park, Calif. Submerged turbine. 1,707,381; Apr. 2.
- Adams, Bernard D., West Haven, Conn. Garden tool. 1,718,939; July 2.
- Adams, Burns, Salt Lick, Ky. Ironing board. 1,711,515; May 7.
- Adams, Charles A., Davenport, Iowa. Tool for lens-grinding apparatus. 1,706,723; Mar. 26.
- Adams, Charles A., assignor to Mathews Gravity Carrier Company, Elwood City, Pa. Roller for gravity carriers. 1,720,255; July 9.
- Adams, Charles T., Dallas, Tex. Mop. 1,702,885; Feb. 19.
- Adams, Clara M., Deadwood, S. Dak. Bonnet. Des. 78,601; May 28.
- Adams Company, The. (See Adams, Eugene, assignor.)
- Adams, Edgar W., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound reproducing and recording device. 1,711,666; May 7.
- Adams, Edward C., Eugene, Oreg. Wrench. 1,729,695; Oct. 1.
- Adams, Edward T. (See Ryan, E. F., and Adams.)
- Adams, Edward T., Phoenix, Ariz., assignor to Fairbanks, Morse & Co., Chicago, Ill. Internal-combustion engine. 1,718,934; July 2.
- Adams, Edwin H., and J. I. Mitchell, Auburn, N. Y., assignors to International Harvester Company, Chicago, Ill. Power lift for cultivators. 1,701,742; Feb. 12.
- Adams, Edwin O., Shelby, Mont. Oil-well-drilling rig. 1,705,847; Mar. 19.
- Adams, Eugene, assignor to The Adams Company, Dubuque, Iowa. Hinge. 1,702,989; Feb. 19.
- Adams, Floyd E., Ponca, Nebr. Service apparatus. 1,709,245; Apr. 16.
- Adams, Frank E. (See Dodds, Thomas, assignor.)
- Adams, Frank H. (See Sommer, L. A., and Adams.)
- Adams, Harold S., New Rochelle, N. Y., and L. Meuser, Boundbrook, N. J., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Treating heavy vegetable oils. 1,697,337; Jan. 1.
- Adams, Harriet E., San Antonio, Tex. Artificial flower. 1,731,089; Oct. 8.
- Adams, Harry F., Greenport, N. Y. Composition of and method of producing concrete. 1,737,906; Dec. 3.
- Adams, Henry, Plainfield, N. J. Railroad frog and switch thawing device. 1,718,271; June 25.
- Adams, Henry T., Chicago, Ill. Adjustable ring book. 1,698,463; Jan. 8.
- Adams, Jack L. (See Hudson, Frank W., assignor.)
- Adams, James W., Bradford, England. Centrifugal liquid purifier. 1,738,553; Dec. 10.
- Adams, John, Albion, Mich. Switch structure. 1,719,742; July 2.
- Adams, John, Detroit, Mich. Air supplier. 1,737,550; Dec. 3.
- Adams, John F. (See Allen, T. T., Adams, and Dunn.)
- Adams, John H., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Soldering material. 1,697,845; Jan. 8.
- Adams, Joseph, assignor to Adams-White Brush Co., Boston, Mass. Brush. Re17,446; Oct. 1.
- Adams, Julius F., deceased, Pittsburgh, Pa.; A. A. Lauer, administratrix. Radiant electric heater. 1,706,202; Mar. 19.
- Adams, Louis M., Los Angeles, Calif. Rail support. 1,741,005; Dec. 24.
- Adams, Nathan H., Schenectady, N. Y., assignor to General Electric Company. Uniting metals. 1,730,443; Oct. 8.
- Adams, Nathan H., Schenectady, N. Y., assignor to General Electric Company. Electrical conductor. 1,731,218; Oct. 8.
- Adams, Nathan J., Poteet, Tex. Churn. 1,742,118; Dec. 31.
- Adams, Richard L., Avalon, Pa. Nut lock. Re17,396; Aug. 6.
- Adams, Richard L., Avalon, Pa. Nut lock. 1,715,883; June 4.
- Adams, Robert B., Lonsdale, R. I. Roofing shingle. 1,731,187; Oct. 8.
- Adams, Roger, Urbana, assignor to Abbott Laboratories, North Chicago, Ill. Cyclohexyl compound and making the same. 1,703,186; Feb. 26.



- Adams, Roger, Urbana, Ill., assignor to The Newport Company, Carrollville, Wis. 2',4'-dihalogen-5-methyl-ortho-benzoyl-benzoic acid and making the same. 1,711,164; Apr. 30.
- Adams, Roger, Urbana, Ill., assignor to The Newport Company. 1-methyl-2,4-dihalogen anthraquinone and making the same. 1,711,165; Apr. 30.
- Adams, Roger, Urbana, assignor to Abbott Laboratories, North Chicago, Ill. Cyclopentyl compound and making same. 1,715,052; May 28.
- Adams, Roger, Urbana, Ill., and O. A. Barnes, Colorado Springs, Colo., assignors to Abbott Laboratories, North Chicago, Ill. Anesthetic compound. 1,724,248; Aug. 13.
- Adams, Roger, and W. W. Moyer, Urbana, Ill., assignors to The Newport Company, Carrollville, Wis. 2'-nitro-4'-acyldamido-o-benzoyl-benzoic acids and making the same. 1,720,751; July 16.
- Adams, Roger, and W. W. Moyer, Urbana, Ill., assignors to The Newport Company, Carrollville, Wis. 3' amino-4' acyldamido-o-benzoyl-benzoic acids and making the same. 1,720,752; July 16.
- Adams, Roland C., Westcliff-on-Sea, England. Device for forming the metallic fastening bands of cap closures. 1,705,886; Mar. 12.
- Adams, Theron, Ames, Iowa. Tandem disk harrow. 1,702,239; Feb. 19.
- Adams, Thomas O. (See Wise, W. J., and Adams.)
- Adams, Thomas O., assignor, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio. Dust-bag connection for vacuum cleaners. 1,727,921; Sept. 10.
- Adams, Thomas O., assignor, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio. Casing for vacuum cleaners. 1,727,922; Sept. 10.
- Adams, Thomas W., assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-cutting machine. 1,698,250; Jan. 8.
- Adams, Thomas W., assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-cutting machine. 1,698,251; Jan. 8.
- Adams, Walter A., Rochester, N. Y. Coupling for electrical fixtures. 1,724,815; Aug. 13.
- Adams, Walter L., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel and handle drag. 1,731,208; Oct. 8.
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Pivot for articulated cars. 1,732,998; Oct. 22.
- Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Brake rod. 1,739,341; Dec. 10.
- Adams & Westlake Company, The. (See Levan, John F., assignor.)
- Adams-White Brush Co. (See Adams, Joseph, assignor.)
- Adams, William E., et al. (See Aring, W. J., and Adams, assignors.)
- Adams, William G., Flagstaff, Ariz. Swimming glove. 1,726,728; Sept. 3.
- Adams, William H., jr. (See Landt, G. E., and Adams.)
- Adams, William H., Kenyon, R. I. Material for use in making gears and similar objects. 1,708,166; Apr. 9.
- Adams, William H., assignor to Eastern Finishing Works, Kenyon, R. I. Printed textile fabric. Des. 80,017; Dec. 3.
- Adamson, Allan A., assignor to G. H. Harris, Rochester, N. Y. Cigar box. 1,700,964; Feb. 5.
- Adamson, Arthur V., Hempstead, N. Y., assignor to Combustion Engineering Corporation. Boiler construction. 1,731,448; Oct. 15.
- Adamson, George P., Searsport, Me., assignor to General Chemical Company, New York, N. Y. Making hydrochloric acid. 1,729,431; Sept. 24.
- Adamson, William L., assignor of one-half to E. R. Scott, Oklahoma City, Okla. Saw head. 1,709,649; Apr. 16.
- Adamtchik, Michael, and G. Massera, Hampstead, London, England. Snow-landing gear for aeroplanes. 1,698,808; Jan. 15.
- Adamy, Sam, assignor of one-half to O. H. Evans, Wellsboro, Pa. Milk-cooling device. 1,742,119; Dec. 31.
- Adatte, Albert L. (See Chanier, G. L., and Adatte.)
- Adatte, Albert L., North Plainfield, and G. L. Chanier, Jersey City, assignors to Pathe Exchange, Inc., Boundbrook, N. J. Photographic-printing apparatus. 1,714,203; May 21.
- Adcock, Marcus E., and A. E. Walden, Lankershim, Calif.; said Walden assignor, by mesne assignments, to D. W. Boardman. Piano-moving truck. 1,717,358; June 18.
- Adams, Homer, Oswego, N. Y. Boiler. 1,703,084; Feb. 26.
- Addicks, Diedrich C., Cincinnati, Ohio. Engine governor. 1,698,464; Jan. 8.
- Addicks, Diedrich C., Rockmart, Ga. Disintegrating machine. 1,721,289; July 16.
- Addicks, Walter E., New York, N. Y., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Battery-charging system. 1,726,639; Sept. 3.
- Addicks, Walter E., New York, N. Y., assignor, by mesne assignments, to Cutler-Hammer, Inc. Electric heater. 1,731,449; Oct. 15.
- Addison, Amos L., Long Beach, assignor, by mesne assignments, to Stewart Curtis Packers, Inc., Los Angeles, Calif. Pimiento roaster. 1,736,107; Nov. 19.
- Addison, Herbert, Worthing, and W. B. Luard, Falmouth, England. Course and distance indicator. 1,723,757; Aug. 6.
- Addison, Thomas, R. Gillham, and G. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Oiling system. 1,718,726; June 25.
- Addler, Joseph H., Brooklyn, N. Y., assignor to Pullclean Manufacturing Corporation, Bridgeport, Conn. Towel cabinet. 1,705,600; Mar. 19.
- Addresit Manufacturing Corporation, The. (See Pyle, Elmer B., assignor.)
- Addressograph Company. (See Duncan, Joseph S., assignor.)
- Addressograph Company. (See Duncan, J. S., and Hubbard, assignors.)
- Addressograph Company. (See Hubbard, Henry E., assignor.)
- Addressograph Company. (See Hubbard, H. E., McCain, and Thompson, assignors.)
- Addressograph Company. (See McCain, B. Z., and Thompson, assignors.)
- Addressograph Company. (See Sass, John J., assignor.)
- Addressograph Company. (See Schaefer, George W., assignor.)
- Addressograph Company. (See Thompson, Herbert L., assignor.)
- Adell, John A., Orange, Mass. Double-rack jack. 1,719,955; July 9.
- Adelmann, Alice, et al., executors. (See Adelmann, William.)
- Adelmann, Leonid. (See Hahnemann, W., Adelmann, and Lichte.)
- Adelmann, William, deceased, City Island, N. Y.; A. Adelmann and W. D. Sporborg, executors. Boat. 1,738,979; Dec. 10.
- Adelson, Albert, San Francisco, Calif. Closure. 1,701,318; Feb. 5.
- Adey, Carl, and C. Piel, Solingen, Germany. Casting copper alloys. 1,722,124; July 23.
- Adgey, Sydney. (See Montage, C. A., and Adgey.)
- Adjusta Company. (See Hirsh, Fred, assignor.)
- Adkins, Frank A., Chicago, and N. S. Harter, assignors to Champion Folding Furniture Company, Waukegan, Ill. Folding-bed-bottom fabric. 1,717,953; June 18.
- Addisson, Lonnie, Louisville, Ky. Locomotive throttle attachment. 1,727,626; Sept. 10.
- Adlake Company, The. (See Hamm, William S., assignor.)
- Adlake Company, The. (See Levan, John F., assignor.)
- Adlake Company, The. (See Miller, Royal E., assignor.)
- Adler, Charles, jr., Baltimore, Md. Automatic highway-crossing signal mechanism. 1,701,251; Feb. 5.
- Adler, Charles, jr., Baltimore, Md. Signal system for highway intersections. 1,705,323; Mar. 12.
- Adler, Howard, Chicago Heights, Ill., assignor to Diversay Manufacturing Company. Cleaning metal surface. 1,734,706; Nov. 5.
- Adler Manufacturing Co. (See Bloom, Nathan P., assignor.)
- Adler, Oscar, North Chicago, assignor, by mesne assignments, to National Electrical Products Company, Waukegan, Ill. Floating tube socket. 1,709,452; Apr. 16.
- Adler, Stella, St. Louis, Mo. Doll. Des. 79,350; Sept. 10.
- Adrian & Busch. (See Sünder, J., and Renno., assignors.)
- Adriance Machine Works, Inc. (See Ross, Hugh M., assignor.)
- Adrienne, Lenthe, Sao Paulo, Brazil. Device for indicating the direction of travel of automobiles. 1,712,486; May 14.
- Adst, Charles G. (See Cummings, W. J., and Adst.)
- Advance Machine Company. (See Richardson, M. H., and Gebert, assignors.)
- Advance Manufacturing Company. (See Poggel, George E., assignor.)
- Advance-Rumely Company. (See Mainland, John, assignor.)
- Advertising Samplers, Inc. (See Hamel, William W., assignor.)
- Aello, José, Villia Frontera, Coahuila, Mexico. Railway truck. 1,740,914; Dec. 24.
- Aeolian Company, The. (See Cheek, Tolbert F., assignor.)
- Aeolian Company, The. (See Dickinson, Joseph H., assignor.)
- Aeolian Company, The. (See Votey, Edwin S., assignor.)
- Aeppli, Albert, Zurich, Switzerland. Variable-speed epicyclic gear. 1,702,923; Feb. 19.
- Aerial Insulator Co. (See Colburn, Beryl E., assignor.)
- Aerocrete Corporation of America, The. (See Sahlberg, Rolf, assignor.)
- Aero Model Company, The. (See Schutte, Junius M., assignor.)
- Aeromotor Company. (See Scholes, Daniel R., assignor.)
- Aero Survey Corp. (See Cooke, Hereward L., assignor.)
- Aerovox Wireless Corporation. (See Schecker, Henry F., assignor.)
- Aeschbach, Friedrich, Aarau, Switzerland. Dough kneading and mixing machine. 1,714,066; May 21.
- Aeschbach, Friedrich, Aarau, Switzerland. Stirring, kneading, and mixing machine. 1,714,750; May 28.
- Aeschbach, Friedrich, Aarau, Switzerland. Tilting device for troughs mounted on rollers for dough-kneading machines. 1,720,990; July 16.
- Aeschbach, Friedrich, Aarau, Switzerland. Machine for shaping pieces of dough. 1,724,816; Aug. 13.
- Aeschbach, Friedrich, Aarau, Switzerland. Machine for shaping pieces of dough. 1,724,817; Aug. 13.
- Aetna Automatic Oil Burner, Incorporated. (See Scheminger, John, jr., assignor.)



- Aetna-Standard Engineering Company, The. (See Russell, George W., assignor.)
- Aff, Louis W., San Francisco, Calif. Lathe. 1,708,405; Apr. 9.
- Affel, Herman A., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. System of electrical distribution. 1,725,691; Aug. 20.
- Affel, Herman A., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Electrical transposition system. 1,736,814; Nov. 26.
- Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. High-frequency measuring system. 1,727,328; Sept. 10.
- Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. High-frequency measuring system. 1,727,388; Sept. 10.
- Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Thermomillimeter. 1,731,239; Oct. 15.
- Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Piezo-electric interference eliminator. 1,739,494; Dec. 17.
- Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Compensation for phase variations. 1,740,491; Dec. 24.
- Affel, Herman A., Ridgewood, B. P. Hamilton and V. P. Thorp, River Edge, N. J., and R. H. Clapp, Richmond Hill, N. Y., assignors to American Telephone and Telegraph Company. Simultaneously signaling all subscribers of carrier telegraph systems. 1,704,780; Mar. 12.
- Afonin, Ivan R., London, England. Oil-storage tank. 1,712,321; May 7.
- Afonin, Ivan R., London, England. Liquid-storage tank. 1,742,120; Dec. 31.
- Agan, Ernest C., Birmingham, Ala. Rail-fastening device. 1,715,345; June 4.
- Agar, John C. (See Smith, P. C., and Agar.)
- Agasote Millboard Company, The. (See Harvey, Harold C., assignor.)
- Agee, George M., Des Moines, Iowa. Feed mixer. 1,725,240; Aug. 20.
- Agee, George S., Longview, Wash. Saw guide. 1,710,286; Apr. 23.
- Ager, Allen. (See Ager, C. E., Kail, Ager, and Kail.)
- Ager, Chester E., and P. Kail, A. Ager, and W. Kail, Lincoln, Nebr. Refreshment stand. Des. 80,212; Dec. 31.
- Agfa Anso Corporation. (See Becker, Oscar, assignor.)
- Agfa Anso Corporation. (See Bornmann, Carl, assignor.)
- Agfa Anso Corporation. (See Bornmann, Carl A., assignor.)
- Agfa Anso Corporation. (See Davis, H. W., and Bornmann, assignors.)
- Agfa Anso Corporation. (See Dietele, W., Matthies, Mauerhoff, and Reitsötter, assignors.)
- Agfa Anso Corporation. (See Frankenburger, W., and Roessler, assignors.)
- Agfa Anso Corporation. (See Goldhammer, Leo, assignor.)
- Agfa Anso Corporation. (See Lessler, L. W., and Bornmann, assignors.)
- Agfa Anso Corporation. (See Lummerzheim, Hermann, assignor.)
- Agfa Anso Corporation. (See Matthies, O., Dieterle, and Reitsötter, assignors.)
- Agfa Anso Corporation. (See Matthies, O., Dieterle, and Wendt, assignors.)
- Agfa Anso Corporation. (See Meyer, Herbert, assignor.)
- Agfa Anso Corporation. (See Reddellien, G., and Mueller, assignors.)
- Agfa Anso Corporation. (See Reitsötter, Josef, assignor.)
- Agler, Anthony W., Los Angeles, Calif. Joint construction for metal plating of airships. 1,740,492; Dec. 24.
- Aglow, Harry, Philadelphia, Pa., assignor to Gill Glass and Fixture Company. Chandelier. Des. 79,001; July 23.
- Aglow, Harry, Philadelphia, Pa., assignor to Gill Glass and Fixture Company. Lighting-fixture wall bracket. Des. 79,411; Sept. 17.
- Aglow, Harry, Philadelphia, Pa., assignor to Gill Glass and Fixture Company. Chandelier. Des. 79,412; Sept. 17.
- Agner, Elton R., Vinton, assignor of one-half to J. E. Gish, Roanoke, Va. Track oiler. 1,707,183; Mar. 26.
- Agnew, Arthur S., and J. O. Howard, assignors to Grier Press, Inc., Chicago, Ill. Whistle. 1,720,813; July 16.
- Agnew Electric Welder Company. (See Agnew, Ray F., assignor.)
- Agnew, Norman F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Measuring of time intervals. 1,741,006; Dec. 24.
- Agnew, Ray F., assignor to Agnew Electric Welder Company, Milford, Mich. Welding apparatus. 1,698,080; Jan. 8.
- Agnini, Oreste G., and R. Singer, Chicago, Ill. Buckle. 1,698,114; Jan. 8.
- Agnini, Oreste G., and R. Singer, Chicago, Ill. Snap buckle. 1,698,115; Jan. 8.
- Agobian, George, Brooklyn, N. Y. Rope lock. 1,727,687; Sept. 10.
- Agramonte, Albert, Camaguey, Cuba. Vehicle suspension. 1,712,063; May 7.
- Agriolo, Paul, assignor of one-half to A. Goldsholl, Chicago, Ill. Link belt. 1,724,633; Aug. 13.
- Agrios, Cosmas, Detroit, Mich. Thermometer. Des. 79,413; Sept. 17.
- Ahearn, Frederic E., Wollaston, Mass. Textile fabric for French-cord shoe bindings and other uses. 1,704,069; Mar. 5.
- Ahern, Harry H., Newport News, Va. Heel and arch support. 1,701,252; Feb. 5.
- Ahern, Joseph P. (See Allison, William I., assignor.)
- Ahern, Thomas E., Providence, and J. H. Evans, Apponaug, R. I. Electrically-controlled cloth guide and straightener. 1,722,261; July 30.
- Ahlbeck, Harry W. (See Weith, A. J., Meharg, and Ahlbeck.)
- Ahlberg, Albin C., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Nipple. 1,697,218; Jan. 1.
- Ahlberg, Alfred, Indianapolis, Ind. Reading appliance. 1,733,107; Oct. 29.
- Ahlborn, Theodor, et al. (See McKay, Donald H., assignor.)
- Ahlborn, Theodor, Houston, Tex. Airplane hangar. 1,727,022; Sept. 3.
- Ahlene, Carl M., assignor to The Borg & Beck Company, Chicago, Ill. Driven plate. 1,727,153; Sept. 3.
- Ahlheim, Edward C. (See Snyder, W. J., and Ahlheim.)
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,720,988; July 16.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission-gear mechanism. 1,720,989; July 16.
- Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,733,769; Oct. 29.
- Ahlm, Charles E. F., and G. L. Elmslie, Cleveland, Ohio. Transmission-control mechanism. 1,716,335; June 4.
- Ahlstrom, Charles A., Jamestown, N. Y. Phonograph needle. 1,739,201; Dec. 10.
- Aho, Tahvan E., Waukegan, Ill. Shoe jack. 1,711,713; May 7.
- Ahrens, Edgar. (See Culmann, J., and Ahrens.)
- Ahrens, John W., Jasper County, Iowa. Rider-actuated merry-go-round. 1,732,999; Oct. 22.
- Aichele, Ernest, Irvington, N. J. Electrical circuit breaker or interrupter. 1,704,379; Mar. 5.
- Aichele, Ernest, Irvington, N. J. Circuit interrupter. 1,732,295; Oct. 22.
- Aiello, Peter P., Shorewood, Wis. Italian smoking chair. Des. 79,053; July 30.
- Aikin, Frank W., Watertown, N. Y. Burr for dressing pulp grindstones. 1,737,551; Dec. 3.
- Aiken, James, New Brighton, N. Y. Clutch device. 1,726,329; Aug. 27.
- Aiken, Joseph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Microphone-switching system. 1,696,897; Jan. 1.
- Aiken, Joseph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser transmitter. 1,696,898; Jan. 1.
- Aikins, Edward L., Seattle, Wash. Fluid-conveyer system. 1,697,584; Jan. 1.
- Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Compressor-cooling system. 1,699,941; Jan. 22.
- Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Cooling compressors. 1,714,836; May 28.
- Ailor, William H., St. Petersburg, Fla. Shingle gauge. 1,701,904; Feb. 12.
- Aimon, Marcel, Paris, France. Binding for stitched books. 1,713,363; May 14.
- Ainscow, Joseph W. H., Lindfield, near Sydney, New South Wales, Australia. Supporting means for liquid-fuel burners. 1,718,101; June 18.
- Ainslie, Thomas D., Metuchen, N. J., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Method of and apparatus for treating textile materials. 1,700,481; Jan. 29.
- Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric-switch-operating mechanism. 1,729,859; Oct. 1.
- Ainsworth, Chester D., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Electric switch. 1,729,860; Oct. 1.
- Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,737,630; Dec. 3.
- Ainsworth, Chester D., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Electric switch and venting system therefor. 1,737,955; Dec. 3.
- Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,740,558; Dec. 24.
- Ainsworth, Harry W., Croydon, near Sydney, A. C. Likely, Greenwich, near Sydney, and L. Boardman, Vaucluse, near Sydney, Australia. Depth and contents gauge for silos, tanks, and cisterns. 1,699,558; Jan. 22.
- Ainsworth Manufacturing Company. (See Potter, Albert T., assignor.)
- Air Conditioning and Engineering Co., The. (See Keiser, Walter, assignor.)



- Aircraft Development Corporation. (See Thaden, Herbert V., assignor.)
- Aircraft Development Corporation. (See Upson, Ralph H., assignor.)
- Air Line Transportation Company. (See Davis, John H., assignor.)
- Air Line Transportation Company. (See Wagner, George P., assignor.)
- Air Reduction Company. (See Anderson, James L., assignor.)
- Air Reduction Company. (See Crowe, John J., assignor.)
- Air Reduction Company. (See Ragonnet, Eugene L., assignor.)
- Air Reduction Company. (See Rooke, Robert M., jr., assignor.)
- Air Reduction Company. (See Walker, George L., assignor.)
- Air-Scale Company, The. (See Morley, Earl M., assignor.)
- Aird, Kenneth, London, England. Gas fire. 1,736,241; Nov. 19.
- Airlite Awnings Corporation. (See Muller, Robert S., assignor.)
- Airship Guarantee Company. (See Burney, Charles D., assignor.)
- Airship Guarantee Company. (See Wallis, Barnes W., assignor.)
- Airship Guarantee Company. (See Wallis, B. N., and Burney, assignors.)
- Airubber Corporation. (See Anderson, Arvid E., assignor.)
- Airubber Corporation. (See Withers, William A., assignor.)
- Aitken, Malcolm, Stamford, Conn. Ice-cream scoop. 1,708,928; Apr. 16.
- Aitken, R. M. (See O'Hare, John S., assignor.)
- Aitken, William, London, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Graded finder system. 1,740,559; Dec. 24.
- Aitken, William K., Hopkins, Minn. Automatic conveyer. 1,706,947; Mar. 26.
- Aitkenhead, William. (See Ross, D. E., and Aitkenhead.)
- Alzenman, Jacob, Brooklyn, N. Y. Combined curtain and drapery. 1,707,934; Apr. 2.
- Ajax Manufacturing Company, The. (See Blakeslee, John R., assignor.)
- Ajax Rubber Company. (See Dimmick, Walter W., assignor.)
- Ajax Rubber Company. (See Tyler, William C., assignor.)
- Akeyson, Swan M., Long Beach, Calif. Pump valve. 1,705,800; Mar. 19.
- Akin, Robert M., Ossining, N. Y. Making dies. 1,708,715; Apr. 9.
- Akin, Thomas R., St. Louis, Mo., L. Young, Alton, Ill., and F. C. Bigger, jr., Crafton, assignors to United Engineering & Foundry Company, Pittsburgh, Pa. Rolling mill. 1,729,696; Oct. 1.
- Akin, William M., and L. Young, Alton, Ill., assignors to Laclede Steel Company, St. Louis, Mo. Furnace. 1,729,411; Sept. 24.
- Akins, B. L., Inc. (See Smith, Ira W., assignor.)
- Akron Standard Mold Company, The. (See Bostwick, Henry C., assignor.)
- Akron Standard Mold Company, The. (See Fleiter, Andrew J., assignor.)
- Akron Standard Mold Company, The. (See Galvin, Wade S., assignor.)
- Akron Standard Mold Company, The. (See Greer, William E., assignor.)
- Akron Standard Mold Company, The. (See Hudson, Charles B., assignor.)
- Akron Standard Mold Company, The. (See Miller, Theodore A., assignor.)
- Aktiebolaget Aeria. (See Hallander, Josef A., assignor.)
- Aktiebolaget Atlas-Diesel. (See Danielsson, Axel U. S., assignor.)
- Aktiebolaget Baltic. (See Ruda, Gustaf W., assignor.)
- Aktiebolaget Bista. (See Heijenskjöld, Gustaf O. W., assignor.)
- Aktiebolaget Birka Regulator. (See Appelberg, Axel O., assignor.)
- Aktiebolaget Carba. (See Tandberg, John G., assignor.)
- Aktiebolaget Diskator. (See Esser, Gustaf F., assignor.)
- Aktiebolaget Ferriconcentrat. (See Mueller, Henry A., assignor.)
- Aktiebolaget Formator. (See Dahlstrom, Ernst R., assignor.)
- Aktiebolaget Ifoverken. (See Reinhardt, Richard M., assignor.)
- Aktiebolaget Lindholmen-Motala. (See Pettersson, Knut G. W., assignor.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungström, F., Broberg, and Eriksson, assignors.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungström, F., and Lysholm, assignors.)
- Aktiebolaget Ljungströms Angturbin. (See Lysholm, Alf, assignor.)
- Aktiebolaget Manus. (See Ellison, Carl E., assignor.)
- Aktiebolaget Separator-Nobel. (See Forsberg, Erik A., assignor.)
- Aktiebolaget Svenska Flåktfabriken. (See Olsson, Johan G., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Cassel, Hjalmar S., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Per G., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Törnebohm, Hilding V., assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Andorff, Fritz, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Andorff, F., and Landsmann, assignors.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Baumann, Adolph, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Bruggmann, Johann, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Bruhlmann, Gottfried, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Buchli, Jacob, assignor.)
- Aktiengesellschaft Brown, Boveri and Cie. (See Dallenbach, Walter, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Darrieus, Georges, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Doswald, Adolf, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Faber, Paul, assignor.)
- Aktiengesellschaft Brown, Boveri and Cie. (See Forner, Georg, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Frey, Karl, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Frey, Otto, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Grieb, Fritz, assignor.)
- Aktiengesellschaft Brown, Boveri and Cie. (See Güttinger, Heinrich, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Haller, Arnold, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Holzel, Johannes, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Jonas, Julius, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Katzenberger, B., and Jansen, assignors.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Keller, Gottlieb, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Keller, G., and Wirz, assignors.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Kern, Erwin, assignor.)
- Aktiengesellschaft Brown, Boveri and Cie. (See Kloninger, Hans C., assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Kobel, Ernst, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Kübler, Johann, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Landsmann, Kurt, assignor.)
- Aktiengesellschaft Brown, Boveri and Cie. (See Mauron, François, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Meyer, Adolf, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Noack, Walter G., assignor.)
- Aktiengesellschaft Brown, Boveri and Cie. (See Prantl, Franz, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Roebel, Ludwig, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Schaffner, Walter, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Schmidlin, Fritz, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Schnetzler, Eberhard, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Schnitzer, Richard, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Schonbrunn, J., and Keller, assignors.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Seitz, Oskar, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Stern, Ferdinand, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Suter, Philipp, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Wichert, Alfred, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Wild, Friedrich, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Wirz, Ernst, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Zingg, Oscar, assignor.)
- Aktiengesellschaft Brown, Boveri & Cie. (See Zubler, Ernst, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Spiess, Paul, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Stauffer, Werner, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Vogel, Walter, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Wyss, Fritz, assignor.)
- Aktiengesellschaft vormals Skodawerke in Pilsen. (See Kouba, Ludwig, assignor.)
- Aktieselskabet de Forenede Bryggerier. (See Larsen, Svend H., assignor.)

- Aktieselskabet de Forenede Bryggerier. (See Lassen, Frederik, assignor.)
- Aktieselskabet Krystal. (See Jeremiassen, Finn, assignor.)
- Aktieselskabet Maskinkompagniet. (See Levin, Axel L., assignor.)
- Alabama Pipe Company. (See Reynolds, Walker, assignor.)
- Alaj, Antoine L., Chicago, Ill. Food-protecting device. 1,699,339; Jan. 15.
- Aland, Richard C. (See Baker, W. E. and Aland.)
- Alaska Pulp and Paper Company. (See Keenan, C. J., Kennedy, and Kirsch, assignors.)
- Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Gymnasium parallel bar. 1,734,664; Nov. 5.
- Albach, Frank, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Gymnasium traveling rings. 1,734,665; Nov. 5.
- Albanese, Gaetano, Richmond Hill, N. Y. Barber sign. Des. 78,252; Apr. 16.
- Albanese, Gaetano, Richmond Hill, N. Y. Barber-pole top. Des. 78,253; Apr. 16.
- Albano, Vicente, Rosario, Argentina. Convertible bed armchair. 1,706,948; Mar. 26.
- Albany Perforated Wrapping Paper Company. (See Fairchild, William, assignor.)
- Alben, Frank L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Frame structure for railway vehicles. 1,702,425; Feb. 19.
- Alberene Stone Co. (See Mahler, Paul, assignor.)
- Alberfoyle Manufacturing Company. (See Ashton, Francis E., assignor.)
- Alberg, Henry, Oakdale, Ill. Tongs. 1,704,548; Mar. 5.
- Albersheim, Walter J., assignor to Radio Corporation of America, New York, N. Y. Audion tube. 1,736,815; Nov. 26.
- Albert, Alberto, Barcelona, Spain. Thermostatic circuit making and breaking device. 1,741,599; Dec. 31.
- Albert, August, Munich, and J. Pfeifer, Frankfurt-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y. Mercury compound having therapeutic properties. 1,704,694; Mar. 12.
- Albert, Carl, Zoblitz in Erzgebirge, Germany. Kitchen range with gridiron for children. 1,734,957; Nov. 12.
- Albert, Charles J. (See Guion, C. P., and Albert.)
- Albert, Clifford E., Cincinnati, assignor to The United States Playing Card Company, Norwood, Ohio. Deck of cards. 1,727,800; Sept. 10.
- Albert, Felix, Collin, New Brunswick, Canada. Signal device for vehicles. 1,699,420; Jan. 15.
- Albert, George, Prescott, Ariz. Airplane. 1,705,887; Mar. 12.
- Albertine, Herman, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc. Lubricating apparatus. 1,725,972; Aug. 27.
- Albertine, Herman, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc. Reservoir grease gun. 1,737,399; Nov. 26.
- Albertoli, John E., San Francisco, Calif. Can-distributing system. 1,729,237; Sept. 24.
- Alberts, William R. (See Echele, H. J., and Kern, assignors.)
- Alberts, William R., et al. (See Kern, Eugene E., assignor.)
- Albertsen Martin C., Minden, Nev., assignor to C. H. Putnam, Azusa, Calif. Pick-up for shock loaders. 1,700,965; Feb. 5.
- Albertson & Company. (See Albertson, Frans O., assignor.)
- Albertson & Company. (See Albertson, F. O., and Olsen, assignors.)
- Albertson, Frans O., assignor to Albertson & Company, Inc., Sioux City, Iowa. Chuck. 1,697,447; Jan. 1.
- Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-grinding machine. 1,722,880; July 30.
- Albertson, Frans O., and G. Olsen, assignors to Albertson & Company, Sioux City, Iowa. Abrasive device. 1,724,742; Aug. 13.
- Albertson, Frans O., and G. Olsen, assignors to Albertson & Company, Inc., Sioux City, Iowa. Abrasive device. 1,736,869; Nov. 26.
- Albertson, Harry S. (See Darling, H. R., and Albertson.)
- Albertson, Horatio L., Green Castle, Mo. Tractor wheel. 1,725,043; Aug. 20.
- Albertson, Victor N., assignor of one-half to E. A. Thompson, Minneapolis, Minn. Crank-case-oil heater. 1,726,206; Aug. 27.
- Albin, Harriet, executrix. (See Albin, Herman.)
- Albin, Herman, deceased. St. Louis, Mo.; H. Albin, executrix, assignor to herself. Passenger car. 1,728,169; Sept. 17.
- Albisá, José A., Saladillo, Argentina. Boot stretcher. 1,723,395; Aug. 6.
- Albrecht, Arthur. (See Blackburn, J., Albrecht, and Peele.)
- Albrecht, Charles A., East Chicago, Ind. Kite. 1,735,309; Nov. 12.
- Albrecht, Charles W., assignor to The Prescott Company, Menominee, Mich. Setting head for sawmill log carriages. 1,700,151; Jan. 29.
- Albrecht, Fritz, Charlottenburg, Germany, assignor to General Electric Company. Telephone relay connection. 1,722,996; Aug. 6.
- Albrecht, Herman S., St. Louis, Mo. Capstan. 1,735,711; Nov. 12.
- Albright, Edward C., assignor to Indiana Lamp Corporation, Connersville, Ind. Lamp construction. 1,714,289; May 21.
- Albright, Ralph D., assignor of one-half to C. K. Szalkay, Pittsburgh, Pa. Liquid-soap dispenser. 1,719,865; July 9.
- Albright, Sidney S., Sacramento, Calif. Bus body. 1,737,547; Dec. 3.
- Albright, Sterling W., Racine, Wis. Retrograde-movement braking device for motor vehicles. 1,740,137; Dec. 17.
- Album, Adolph Y. S., Chicago, Ill. Bottle stopper. 1,716,100; June 4.
- Alchin, Albert E., Perth Amboy, N. J. Ice-cream mold. 1,728,778; Sept. 17.
- Alcor Manufacturing Company. (See Nielsen, Karl K., assignor.)
- Aldag, Rudolf. (See Borchers, Heinrich, assignor.)
- Aldeborgh, Erik H., assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y. Tubular gauge. 1,741,268; Dec. 31.
- Aldeen, Gedor W., assignor to National Lock Co., Rockford, Ill. Lock. 1,724,448; Aug. 13.
- Aldeen, Reuben, assignor to National Lock Co., Rockford, Ill. Radio tuning device. 1,703,331; Feb. 26.
- Aldeen, Wilhelm G., assignor to National Lock Co., Rockford, Ill. Feeding mechanism. 1,739,054; Dec. 10.
- Alden, Carroll R., assignor to Ex-Cell-O Tool & Manufacturing Co., Detroit, Mich. Finishing ball bearings. 1,708,491; Apr. 9.
- Alden, Carroll R., Detroit, Mich., assignor to Ex-Cell-O Tool & Manufacturing Co. Speed control. 1,718,935; July 2.
- Alden, Fred, and L. M. Cooney, Saginaw, Mich. Sanitary milk container. 1,733,571; Oct. 29.
- Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Wheel. 1,714,290; May 21.
- Alden Manufacturing Company. (See Alden, Milton, assignor.)
- Alden, Milton, assignor to Alden Manufacturing Company, Springfield, Mass. Tuning element for radio receivers. Des. 78,555; May 21.
- Alden, Milton, Springfield, assignor to The Alden Manufacturing Company, Brockton, Mass. Radio set connector. 1,703,651; Feb. 26.
- Alden, Milton, Springfield, assignor to Alden Manufacturing Company, Brockton, Mass. Vacuum-tube connector. 1,707,702; Apr. 2.
- Alden, Milton, assignor to Alden Manufacturing Company, Springfield, Mass. Vacuum-tube socket. 1,738,028; Dec. 3.
- Alden, Reginald J., Fitchburg, Mass. Tear-gas projectile. 1,735,522; Nov. 12.
- Alden, Reginald J., Springfield, Mass. Cartridge. 1,741,900; Dec. 31.
- Alden, Reginald J., Springfield, Mass. Cartridge. 1,741,901; Dec. 31.
- Alden, Reginald J., Fitchburg, Mass. Firearm. 1,741,902; Dec. 31.
- Aldendorff, Charlotte, heiress. (See Aldendorff, Fritz.)
- Aldendorff, Charlotte, widow and sole heir. (See Aldendorff, Fritz.)
- Aldendorff, Fritz, deceased, Berlin-Wilmersdorf, Germany; C. Aldendorff, heiress. Electrical switch. 1,699,514; Jan. 22.
- Aldendorff, Fritz, deceased, Berlin, Germany; C. Aldendorff, heiress. Automatic telephone system. 1,718,449; June 25.
- Aldendorff, Fritz, deceased, Berlin-Wilmersdorf, Germany; C. Aldendorff, heiress. Electromechanical telephone switching system. 1,705,054; Mar. 12.
- Aldendorff, Fritz, deceased, Berlin-Wilmersdorf, Germany; C. Aldendorff, heiress; said Fritz Aldendorff assignor of one-fourth to P. Kolisch, New York, N. Y. Automatic electric switching system. 1,712,243; May 7.
- Aldendorff, Fritz, deceased, Berlin, Germany; C. Aldendorff, widow and sole heir. Electromechanical switching system. 1,725,044; Aug. 20.
- Aldendorff, Fritz, deceased, Berlin, Germany; C. Aldendorff, heiress. Electromechanically-controlled switch and remote-control signaling and telephone system. 1,730,049; Oct. 1.
- Alderdice, Frederick E., New York, N. Y. Racing game. 1,709,512; Apr. 16.
- Alderdice, Walter, Brooklyn, assignor to Alfred W. Channing, Inc., New York, N. Y. Metal feeder. 1,723,595; Aug. 6.
- Alderfer, Sterling W., Akron, Ohio, assignor to National Standard Company, Niles, Mich. Apparatus for the manufacture of tire beads. 1,727,090; Sept. 3.
- Alderman, Edward J., and C. N. Nickelson, jr., Muscatine, Iowa. Battery-sealing-compound-removing tool. 1,732,076; Oct. 15.
- Alderson, Lela E., Claremore, Okla. Churn. 1,698,116; Jan. 8.
- Aldrich, Alonzo, assignor to Beloit Iron Works, Beloit, Wis. Paper machine. Re17,381; July 30.
- Aldrich, Alonzo, Beloit, Wis. Belt-tightening device. 1,717,359; June 18.



- Aldrich, Alonzo, Beloit, Wis. Paper-making machine. 1,723,834; Aug. 6.
- Aldrich, Alonzo, assignor to Beloit Iron Works, Beloit, Wis. Paper-winding apparatus. 1,730,552; Oct. 8.
- Aldrich, Alonzo, and E. E. Berry, Beloit, Wis., assignors to Beloit Iron Works. Removable Fourdrinier paper machine. 1,700,301; Jan. 29.
- Aldrich, Alonzo, and E. E. Berry, Beloit, Wis., assignors to Beloit Iron Works. Removable-type Fourdrinier paper-making machine. 1,715,528; June 4.
- Aldrich, Alonzo, and E. E. Berry, Beloit, Wis., assignors to Beloit Iron Works. Removable-type Fourdrinier paper-making machine. 1,715,529; June 4.
- Aldrich, Alonzo, and E. E. Berry, Beloit, Wis., assignors to Beloit Iron Works. Removable-type Fourdrinier paper-making machine. 1,715,530; June 4.
- Aldrich, Alonzo, and E. E. Berry, Beloit, Wis., assignors to Beloit Iron Works. Removable-type Fourdrinier paper-making machine. 1,715,531; June 4.
- Aldrich, Alonzo, and E. E. Berry, assignors to Beloit Iron Works, Beloit, Wis. Steam fitting. 1,716,910; June 11.
- Aldrich, Alonzo, and E. E. Berry, assignors to Beloit Iron Works, Beloit, Wis. Steam fitting for journals of rotary steam cylinders or the like. 1,718,209; June 25.
- Aldrich, Alonzo, and E. E. Berry, Beloit, Wis., assignors to Beloit Iron Works. Fourdrinier paper machine. 1,726,973; Sept. 3.
- Aldrich, Elmer L., and L. D. Gibson, assignors to The W. F. Tubbs Company, Norway, Me. Chair. Des. 77,663; Feb. 12.
- Aldrich, Elmer L., and L. D. Gibson, assignors to The W. F. Tubbs Company, Norway, Me. Chair. Des. 77,664; Feb. 12.
- Aldrich, Glen C., Enid, Okla. Dispensing cabinet. 1,719,826; July 9.
- Aldrich, Henry R. (See Hotchkiss, W. O., Aldrich, Stearn, and Foerst.)
- Aldrich, Herbert H., Wilkesburg, Pa., assignor by mesne assignments, to Wubco Battery Corporation, Niagara Falls, N. Y. Container. 1,721,427; July 16.
- Aldrich, Jiahah M. (See Kirkland, Needham L., assignor.)
- Aldrich, John P., and H. A. Morris, assignors to The Automat Molding & Folding Company, Toledo, Ohio. Conveyor mechanism. 1,726,418; Aug. 27.
- Aldrich, John P., and H. A. Morris, assignors to The Automat Molding & Folding Company, Toledo, Ohio. Article-feeding mechanism. 1,726,419; Aug. 27.
- Aldrich, Lester K., Sidney, Ohio. Automatic paper-elevator control for automatic sheet feeders. 1,711,076; Apr. 30.
- Aldrich, Loyd I., assignor to W. B. Wilde Co., Peoria, Ill. Liquid-fuel-atomizing device. 1,698,422; Jan. 8.
- Aldrich, Loyd I., assignor to Preferred Oil Burners, Inc., Peoria, Ill. Fuel-burning device. 1,706,395; Mar. 26.
- Aldrich, Loyd I., assignor to Preferred Oil Burners, Inc., Peoria, Ill. Domestic oil burner. 1,722,997; Aug. 6.
- Aldrich, Loyd I., assignor to Preferred Oil Burners, Inc., Peoria, Ill. Fuel-burning device. 1,724,690; Aug. 13.
- Aldrich, Loyd I., assignor to Preferred Oil Burners, Inc., Peoria, Ill. Fuel atomizer. 1,731,806; Oct. 15.
- Aldrich, Mark J., Keokuk, Iowa, and D. A. Seitz and K. E. Gabbert, Kankakee, Ill. Safety sump attachment for carburetors. 1,735,712; Nov. 12.
- Aldrich Pump Company, The. (See Moyer, F. W., and Reninger, assignors.)
- Aldridge, Blair G. (See Gard, E. W., Aldridge, and Multer.)
- Aldridge, Clarence J. (See Schleich, N., and Aldridge.)
- Aldridge, Daniel L., Long Beach, Calif. Toy vehicle. 1,728,587; Sept. 17.
- Aldridge, Frank J. (See Sabey, H. M., and Aldridge.)
- Alemite Corporation, The. (See Brand, Harold H., assignor.)
- Alemite Corporation. (See Butler, Clyde G., assignor.)
- Alemite Corporation. (See Carr, Moses F., assignor.)
- Alemite Corporation. (See Davis, Ernest W., assignor.)
- Alemite Corporation. (See Davis, E. W., and Wheeler, assignors.)
- Alemite Corporation. (See Fisher, Charles W., assignor.)
- Alemite Corporation. (See Fuller, Perley H., assignor.)
- Alemite Corporation. (See Murphy, Howard J., assignor.)
- Alemite Corporation. (See Piquerez, Emile, assignor.)
- Alemite Corporation. (See Wedberg, Reuben, assignor.)
- Alemite Corporation. (See Wendel, Otto W., assignor.)
- Alemite Die-Casting & Mfg. Co. (See Gulborg, John S., assignor.)
- Alemite Manufacturing Company. (See Brand, Harold H., assignor.)
- Alemite Manufacturing Corporation. (See Ahlberg, Albin C., assignor.)
- Alemite Manufacturing Corporation. (See Baker, Theodore E., assignor.)
- Alemite Manufacturing Corporation. (See Bradbury, Clifford C., assignor.)
- Alemite Manufacturing Corporation. (See Bystricky, Joseph, assignor.)
- Alemite Manufacturing Corporation. (See Carr, Moses F., assignor.)
- Alemite Manufacturing Corporation. (See Claud-Mantle, Arthur, assignor.)
- Alemite Manufacturing Corporation. (See Davis, Ernest W., assignor.)
- Alemite Manufacturing Corporation. (See Davis, E. W., and Thomas, assignors.)
- Alemite Manufacturing Corporation. (See Fesler, Douglas F., assignor.)
- Alemite Manufacturing Corporation. (See Fesler, D. F., Davis, and Frier, assignors.)
- Alemite Manufacturing Corporation. (See Foyle, Robert W., assignor.)
- Alemite Manufacturing Corporation. (See Johnson, Gustav, assignor.)
- Alemite Manufacturing Corporation. (See Moore, George L., assignor.)
- Alemite Manufacturing Corporation. (See Moore, Raymond G., assignor.)
- Alemite Manufacturing Corporation. (See Morse, Norman W., assignor.)
- Alemite Manufacturing Corporation. (See Murphy, Howard J., assignor.)
- Alemite Manufacturing Corporation. (See Parrott, Thomas E., assignor.)
- Alemite Manufacturing Corporation. (See Pierce, Earl F., assignor.)
- Alemite Manufacturing Corporation. (See Pierce, E. F., and Nims, assignors.)
- Alemite Manufacturing Corporation. (See Piquerez, Emile, assignor.)
- Alemite Manufacturing Corporation. (See Roberts, Henry T., assignor.)
- Alemite Manufacturing Corporation. (See Schulze, William H., assignor.)
- Alemite Manufacturing Corporation. (See Zerk, Oscar, assignor.)
- Alemite Manufacturing Corporation. (See Zerk, Oscar U., assignor.)
- Alert Products Inc. (See Norton, Arthur G., assignor.)
- Ales, Victor. (See Dorgan, J. F., and Ales.)
- Alessi, Fred, Woodridge, N. J. Propeller means for vessels. 1,710,562; Apr. 23.
- Alex, Max, Bloomington, Ill. Absorption cooler. 1,710,333; Apr. 23.
- Alex, Max, Bloomington, Ill. Absorption refrigerator. 1,710,334; Apr. 23.
- Alex, Max, Davenport, Iowa. Refrigerating system. 1,736,773; Nov. 26.
- Alex, Max, Davenport, Iowa. Refrigerating system. 1,736,774; Nov. 26.
- Alex, Sam G., Chico, Calif. Oil-pressure-control ignition switch for explosive engines. 1,700,783; Feb. 5.
- Alexander, Arthur S., et al. (See Alexander, Arthur S., assignor.)
- Alexander, Arthur S., assignor, by mesne assignments, of one-half to W. McGrath and one-half to A. S. Alexander, Brooklyn, N. Y. Tire mirror. 1,701,940; Feb. 12.
- Alexander, Arthur S., assignor, by mesne assignments, to Alexander & McGrath, Inc., and Nassau Brass Foundry, Inc., Brooklyn, N. Y. Rear-view-mirror bracket. 1,719,821; July 9.
- Alexander, Carl R., Richmond, Calif. Table. 1,719,039; July 2.
- Alexander, Carl Z., West Livingston, and E. S. Alexander, Newark, assignors, by mesne assignments, to E. C. Seward, Jersey City, N. J. Boiler-feeding apparatus. 1,710,652; Apr. 23.
- Alexander, Clarence J., Ketchikan, Alaska. Floating fish trap. 1,711,766; May 7.
- Alexander, Clinton B., Washington, D. C. Slack adjusters. 1,725,748; Aug. 27.
- Alexander, Clive M., Tulsa, Okla. Oil burner and operation thereof. 1,702,373; Feb. 19.
- Alexander, David S., et al. (See Loram, Edward R., assignor.)
- Alexander, Earl S. (See Alexander, Carl Z. and E. S.)
- Alexander, Fannie, et al. (See Klahn, Edwin, assignor.)
- Alexander, Fannie, et al. (See Lapkin, John D., assignor.)
- Alexander, Gavin, sr., Allentown, Pa. Reed-moving mechanism. 1,704,455; Mar. 5.
- Alexander, George, Hamilton, Ontario, Canada, assignor of one-half to A. Craven, Matawan, N. J. Automobile signal. 1,730,027; Oct. 1.
- Alexander, Harry O. (See Sandstrom, F. C., and Alexander.)
- Alexander, J. Monroe, Spanish Fork, Utah. Shoe-stapling machine. 1,712,601; May 14.
- Alexander, John, Milwaukee, Wis. Plaster and mortar mixer. 1,730,713; Oct. 8.
- Alexander, John E., Port Edwards, Wis. Combination paper-drier installation. 1,726,134; Aug. 27.
- Alexander, John E., Port Edwards, Wis., assignor, by mesne assignments, to Minton Vacuum Dryer Corporation, Greenwich, Conn. Vacuum-chamber seal for paper driers. 1,713,485; May 14.
- Alexander, John E., Port Edwards, Wis., assignor, by mesne assignments, to Minton Vacuum Dryer Corporation, Greenwich, Conn. Paper-drying machine with roll doctors. 1,719,793; July 2.
- Alexander & McGrath, Inc., et al. (See Alexander, Arthur S., assignor.)
- Alexander, Nathan E. (See Pepin, Joseph N., assignor.)
- Alexander, Nicholas, assignor of one-half to G. B. Wickens, Lorain, Ohio. Connecting link. 1,721,801; July 23.
- Alexander, Peter P., Marblehead, Mass., assignor to General Electric Company. Arc welding system. 1,708,072; Apr. 9.
- Alexander, Robert E., Tulsa, Okla. Self-adjusting bearing plate for V's. 1,712,191; May 7.



- Alexander, Robert L., Clinton, Iowa, assignor to Climax Engineering Co. Condenser and liquid receiver. 1,721,654; July 23.
- Alexander, Robert U., and L. G. Larsen, Jersey City, N. J.; said Larsen assignor to C. S. Siegel, New York, N. Y. Display stand. 1,733,214; Oct. 29.
- Alexander, William, Glasgow, Scotland. Steam separator. 1,703,917; Mar. 5.
- Alexander, William P., Merchantville, N. J. Material-handling apparatus. 1,720,388; July 9.
- Alexander, William P., Merchantville, N. J., assignor to R. H. Beaumont Company, Philadelphia, Pa. Drag scraper equipment. 1,708,912; Apr. 9.
- Alexander, William R., Prescott, Wash. Gearless and dustproof driving mechanism for grain drills. 1,713,862; May 21.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Oscillation generator. 1,698,290; Jan. 8.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric ship propulsion. 1,701,350; Feb. 5.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Power-amplifying means. 1,706,094; Mar. 19.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Rectifying apparatus. 1,718,515; June 25.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Control of electric power. 1,719,866; July 9.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Signaling system. 1,722,998; Aug. 6.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of ship propulsion. 1,723,906; Aug. 6.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radio receiving system. 1,723,907; Aug. 6.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Ignition system. 1,723,908; Aug. 6.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Speed-control system. 1,736,689; Nov. 19.
- Alexovits, Thomas M., Bayonne, N. J., assignor to J. E. Greenawalt, New York, N. Y. Grate for sintering pans. 1,704,027; Mar. 5.
- Alferink, William, Cleveland, assignor of one-third to W. French, Austintown, and one-third to J. Weaver, Cleveland, Ohio. Conveyor for annealing furnaces. 1,710,332; Apr. 23.
- Alfes, John H., Lansing, assignor to General Motors Corporation, Detroit, Mich. Torque tube. 1,713,861; May 21.
- Alford, Joseph C., Maben, Miss. Fountain pen. 1,711,006; Apr. 30.
- Alford, Percy C., East Cowes, Isle of Wight, England. Band clip. 1,735,346; Nov. 12.
- Alford, William C. (See Cassetty, W. M., jr., Alford, and Ross.)
- Alfred, Frank H., and P. Chipman, Detroit, Mich. Railway-roadbed construction. 1,716,911; June 11.
- Alfreds, Torris H., Park Ridge, assignor to Arctic Nu-Air Corporation, Chicago, Ill. Deflector for ventilating apparatus. 1,708,250; Apr. 9.
- Alger, Harley C., assignor to R. R. Donnelley & Sons Co., Chicago, Ill. Gluing mechanism for bookbinding machines. 1,741,269; Dec. 31.
- Alger, Martin L. (See Legge, A. G., and Alger.)
- Alger, Russell A., jr., et al. (See Bailey, Harlow, jr., assignor.)
- Algrain, Paul, La Croyere, Belgium. Rolling stock of railways, tramways, and road transport vehicles. 1,715,264; May 28.
- Algrain, Paul, La Croyere, Belgium. Rolling stock of railways, tramways, and road transport vehicles. 1,728,096; Sept. 10.
- Algrain, Paul, La Croyere, Belgium. Rolling stock of railways, tramways, or road transport. 1,736,690; Nov. 19.
- Alhambra Kilns, Inc. (See Ekstrand, Ernest W., assignor.)
- All-Cohen, Edward S., The Hague, Netherlands. Manufacture from latex of an artificial gutta-percha and a nonhygroscopic rubber. 1,739,566; Dec. 17.
- Alinder, Henry, and G. B. Shipley, assignors to The Ohio Wood Preserving Company, Pittsburgh, Pa. Adzing and boring machine. 1,704,273; Mar. 5.
- Aljac Lighting Fixture Co. (See Feinlich, Max, assignor.)
- Allaire, L. G., et al. (See Archer, William T., assignor.)
- All America Cables, Inc. (See Perryman, Nelson J., assignor.)
- All-American Mohawk Corporation. (See Winther, Anthony, assignor.)
- All-American Radio Corporation. (See Rauland, Einar N., assignor.)
- Allan, Archibald, Tynemouth, and H. W. Clothier, Wallsend-on-Tyne, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Oil-immersed electric switch gear. 1,720,586; July 9.
- Allan, Charles H., Ryegate, Mont. Attachment for typographical machines. 1,697,745; Jan. 1.
- Allan, Charles H., Ryegate, Mont. Tympan gauge. 1,697,746; Jan. 1.
- Allan, Charles H., Ryegate, Mont. Plural-tongue tympan gauge. 1,701,135; Feb. 5.
- Allan, Charles H., Ryegate, Mont. Roller chute spring for typesetting machines. 1,710,852; Apr. 30.
- Allan, Charles H., Ryegate, Mont. Gauge pin and bar assembly. 1,710,853; Apr. 30.
- Allan, Charles H., Ryegate, Mont. Adjustable liner. 1,718,727; June 25.
- Allan, James R., Oak Park, Ill., assignor to International Harvester Company. Manufacture of wheels. 1,712,805; May 14.
- Allan, William G., Toronto, Ontario, Canada, assignor, by mesne assignments, to F. G. Clark. Electrolytic apparatus. 1,702,924; Feb. 19.
- Alland, Maurice, Atlantic City, N. J. Cigarette-making machine. 1,703,089; Feb. 26.
- Alland, Maurice, Atlantic City, N. J. Plunger shaving brush. 1,711,516; May 7.
- Alland, Maurice, Atlantic City, N. J. Cigarette-making machine. 1,718,677; June 25.
- Alland, Maurice, Atlantic City, N. J. Pocket cigarette-making device. 1,718,678; June 25.
- Alland, Maurice, Atlantic City, N. J. Holder for cut flowers. 1,732,213; Oct. 22.
- Alland, Maurice, Atlantic City, N. J. Bumper for vehicles. 1,733,930; Oct. 29.
- Alland, Maurice, Atlantic City, N. J. Pocket Turkish pipe. 1,734,756; Nov. 5.
- Albright, Charles H., Los Angeles, Calif. Hand press. 1,699,088; Jan. 15.
- Albright-Neil Company, The. (See Johnson, Walter J. O., assignor.)
- Alcott, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Variable-capacity element. 1,716,161; June 4.
- Allee, Herbert D., Detroit, Mich. Making screens. 1,713,809; May 21.
- Allegemeine Elektrizitäts-Gesellschaft. (See Radloff, Johannes, assignor.)
- Allegheeny Steel Company. (See Caugherty, W. E., and Stroble, assignors.)
- Allegheeny Steel Company. (See Curry, Ralph R., assignor.)
- Allegheeny Steel Company. (See Hostettler, Leigh W., assignor.)
- Allegheeny Steel Company. (See Lindquist, Otto B., assignor.)
- Allegheeny Steel Company. (See Otte, Otho M., assignor.)
- Allegheeny Steel Company. (See Schulte, Louis, assignor.)
- Allegheeny Steel Company. (See Waddington, William H., assignor.)
- Allegheeny Steel Company. (See Winder, Frank J., assignor.)
- Allemann, Otto. (See Felix, F., and Allemann.)
- Allen, Albert, Bangor, Me., assignor, by mesne assignments, to Atlantic Precision Instrument Company, Boston, Mass. Method and mechanism for determining the moisture content of paper or other material. 1,708,073; Apr. 9.
- Allen, Albert, Bangor, Me., assignor, by mesne assignments, to Atlantic Precision Instrument Company, Boston, Mass. Indicating and controlling method and mechanism for paper-making machines and the like. 1,708,074; Apr. 9.
- Allen, Alvah K., Kansas City, Mo. Collapsible tower. 1,708,113; Apr. 9.
- Allen, Andrew B., Miami, Fla. Pipe-bending tool. 1,712,414; May 7.
- Allen, Andrews, Glencoe, assignor to Allen & Garcia Company, Chicago, Ill. Mixing conveyer. 1,706,203; Mar. 19.
- Allen, Andrews, Glencoe, assignor to Allen & Garcia Company, Chicago, Ill. Automatic mixing bin. 1,720,112; July 9.
- Allen, Andrews, Glencoe, Ill., and D. F. Lepley, deceased, by P. V. Lepley, executor, Connellsville, Pa., assignors of one-half to Allen & Garcia Co., Chicago, Ill., and one-half to The Connellsville Mfg. & Mine Supply Co., Connellsville, Pa. Skip-loading gate. 1,716,289; June 4.
- Allen, Arthur W., Berkeley, Calif. Production of clear leach liquors. 1,731,450; Oct. 15.
- Allen, Arthur W., Berkeley, Calif. Crystallization process. 1,735,987; Nov. 19.
- Allen, Benjamin H., Beaumont, Tex. Serving apparatus. 1,705,744; Mar. 19.
- Allen, Charles A., et al. (See Cummings, Charles D., assignor.)
- Allen, Charles D., Oklahoma City, Okla. Arch support. 1,714,538; May 28.
- Allen, Charles H. (See McKinney, F. B., and Allen.)
- Allen, Charles H., Pittsburgh, and J. L. Morris, Crafton, assignors to Packers Specialty Company, Pittsburgh, Pa. Sausage-twisting machine. 1,701,712; Feb. 12.
- Allen, Charles H., Pittsburgh, and J. L. Morris, Crafton, assignors to Packers Specialty Company, Pittsburgh, Pa. Sausage-twisting machine. 1,701,713; Feb. 12.
- Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Seed drill. 1,703,467; Feb. 26.
- Allen, Charles J., Moorestown, and J. M. Bowen, Cape May C. H., N. J., assignors to S. L. Allen & Co., Inc. Cultivator gang coupling. 1,706,204; Mar. 19.
- Allen, Charles R. (See McIntosh, Peter E., assignor.)



- Allen, Charles R., North Vernon, Ind. Heat deflector. 1,709,650; Apr. 16.
- Allen, Chauncey D., Philadelphia, Pa. Washout plug. 1,712,415; May 7.
- Allen, Chauncey D., Philadelphia, Pa. Renewable-ring washout plug. 1,712,416; May 7.
- Allen, Chauncey D., Philadelphia, Pa. Automatic variable adjusting means for lubricators. 1,724,865; Aug. 13.
- Allen, David E., Yonkers, N. Y. Base for lamp posts and trolley-wire poles. 1,696,934; Jan. 1.
- Allen, David R., Omaha, Nebr. Music-leaf turner. 1,728,713; Sept. 17.
- Allen, Duff S., St. Louis, Mo. Needle. 1,711,579; May 7.
- Allen, Edna J., Portland, Oreg. Ice and butter server. 1,731,604; Oct. 15.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stitched buttonhole. 1,708,290; Apr. 9.
- Allen, Edward B., Newtown, and B. F. Crosby, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling mechanism for buttonhole-sewing machines. 1,711,483; May 7.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Buttonhole-sewing machine. 1,738,631; Dec. 10.
- Allen, Edward E., et al. (See Allen, John F., assignor.)
- Allen, Edward G. (See Steele, W. M., and Allen.)
- Allen, Ellie K. (See Fowler, L. B., and Allen.)
- Allen, Elmer, Georgetown, Ky. Cleaner or wiper for meter glasses. 1,710,563; Apr. 23.
- Allen, Everett E., Cuyahoga Falls, Ohio. Air filter and humidifier for furnaces. 1,696,935; Jan. 1.
- Allen, Floyd P., and W. H. Brett, Cleveland Heights, assignors to The Enamel Products Company, Cleveland, Ohio. Toilet-paper cabinet. 1,712,479; May 14.
- Allen, Frank B., Narberth, Pa., assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Sectional catenary bunker. 1,707,341; Apr. 2.
- Allen, Frank B., Lower Marion Township, Montgomery County, Pa., assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Apparatus for handling solid material from furnaces. 1,707,342; Apr. 2.
- Allen, Frank B., Lower Marion Township, Montgomery County, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Apparatus for handling solid material. 1,707,348; Apr. 2.
- Allen, Frank B., Lower Marion Township, Allegheny County, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Apparatus for handling ashes or other solid materials. 1,729,603; Oct. 1.
- Allen, Frank B., Lower Merion Township, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Hopper construction. 1,732,548; Oct. 22.
- Allen, Frank B., Lower Merion Township, Montgomery County, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Hopper construction. 1,733,572; Oct. 29.
- Allen, Frank B., Lower Merion Township, Montgomery County, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Composite conduit and making the same. 1,733,573; Oct. 29.
- Allen, Frank M., Claymont, Del., assignor to Congoleum-Nairn, Inc. Printing. 1,727,348; Nov. 26.
- Allen, Fred W., Kingston, Tenn., assignor to J. E. Tate, Milledale, Ga. Steam-pressure cooker. 1,730,491; Oct. 8.
- Allen, Frederick C., Hartford, Conn., assignor, by mesne assignments, to Kearney & Trecker Corporation, West Allis, Wis. Milling machine. Re17,392; Aug. 6.
- Allen, Frederick F., Seattle, Wash. Milk-bottle holder. 1,713,415; May 14.
- Allen, Frederick G. L., and E. C. Bender, Sydney, New South Wales, Australia. Fountain mathematical drawing pen for India ink. 1,718,887; June 25.
- Allen & Garcia Company. (See Allen, Andrews, assignor.)
- Allen & Garcia Co. et al. (See Allen, A., and Lepley, assignors.)
- Allen, George, Jr., assignor to George Allen & Son, New York, N. Y. Corbel block. 1,693,524; Jan. 8.
- Allen, George A., et al. (See Butler, Thomas H., assignor.)
- Allen, George B., Atlanta, Ga. Air purifying and deodorizing device. 1,737,532; Nov. 26.
- Allen, George E., Buffalo, N. Y. Ground connection. 1,723,596; Aug. 6.
- Allen, George, & Son. (See Allen, George, Jr., assignor.)
- Allen, George T., New York, N. Y., assignor to Ransome Concrete Machinery Company. Charging device for concrete mixers. 1,729,602; Oct. 1.
- Allen, George W., assignor to B. F. Sturtevant Company, Hyde Park, Mass. Vacuum cleaner. 1,703,863; Mar. 5.
- Allen, George W., Hyde Park, and O. D. B. Bentley, Norfolk, assignors to B. F. Sturtevant Company, Hyde Park, Mass. Multiple-unit installation. 1,714,340; May 21.
- Allen, Gerald H., Kalamazoo, Mich. Battery carrier. 1,734,511; Nov. 5.
- Allen, Glenn H., and T. M. Hagenbook, assignors to The International Steel and Iron Company, Evansville, Ind. Lift bridge. 1,731,697; Oct. 15.
- Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Dish or similar article. Des. 77,931; Mar. 12.
- Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Pot or similar article. Des. 78,137; Apr. 2.
- Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 78,553; May 21.
- Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Candlestick or similar article. Des. 79,638; Oct. 29.
- Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Spoon or similar article. Des. 80,213; Dec. 31.
- Allen, Harold E. (See Ufford, G. W., and Allen.)
- Allen, Harry R. (See White, Howard B., assignor.)
- Allen, Henry N., and S. C. Pitman, Danvers, Mass. Stretching frame. 1,726,254; Aug. 27.
- Allen, Hiram, Williamsburg, Kans. Wire splicer. 1,738,812; Dec. 10.
- Allen, Horace E., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Cooler for sheet-glass apparatus. 1,701,170; Feb. 5.
- Allen, Horace E., and W. F. Brown, assignors to Libbey-Owens Glass Company, Toledo, Ohio. Method and apparatus for forming sheet glass. 1,739,936; Dec. 17.
- Allen, Hugh L., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,706,510; Mar. 26.
- Allen, Irving R., Wheaton, Ill. Safety razor and blade magazine therefor. 1,737,696; Dec. 3.
- Allen, James D., Kansas City, Mo. Garter shield. 1,724,335; Aug. 13.
- Allen, James E., and H. G. Schwoeppe, assignors to Boyer Fire Apparatus Company, Logansport, Ind. Chemical fire-extinguisher apparatus. 1,703,702; Feb. 26.
- Allen, James E., and H. G. Schwoeppe, assignors to Boyer Fire Apparatus Company, Logansport, Ind. Ladder clamp. 1,717,486; June 13.
- Allen, James M., St. Louis, Mo. Electric motor. 1,738,165; Dec. 3.
- Allen, John F., assignor of one-third to J. Allison Himrod and one-third to E. E. Allen, Erie, Pa. Vulcanizing mold. 1,727,851; Sept. 10.
- Allen, John M., et al. (See Hunter, James T., assignor.)
- Allen, John M., Toronto, Ontario, Canada, assignor to Scott & Williams, Incorporated, New York, N. Y. Hosiery and making same. 1,731,330; Oct. 15.
- Allen, John M., Toronto, Ontario, Canada, assignor to Scott & Williams, Incorporated, New York, N. Y. Seamless hosiery. 1,733,852; Oct. 29.
- Allen, Joseph T. L., Berne, Wash. Collapsible container. 1,724,743; Aug. 13.
- Allen, Joseph W., Clairton, Pa. Distributing apparatus. 1,726,603; Sept. 3.
- Allen, Kenneth W., et al. (See Hunter, James T., assignor.)
- Allen, Lee E., assignor to Pennsylvania Engineering Company, New Castle, Pa. Metal-handling apparatus. 1,712,287; May 7.
- Allen, Louis M. (See Taplin, C. V., Allen, and Bertels.)
- Allen, Percy, North Wayne, assignor to North Wayne Tool Company, Hallowell, Me. Bush hook. 1,701,493; Feb. 12.
- Allen, Robert C. (See Hodgkinson, F., and Allen.)
- Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Compound-turbine arrangement. 1,720,709; July 16.
- Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Shaft packing. 1,734,458; Nov. 5.
- Allen, Roy N. (See Potrafke, H., and Allen.)
- Allen, S. L., & Co. (See Allen, Charles J., assignor.)
- Allen, S. L., & Co. (See Allen, C. J., and Bowen, assignors.)
- Allen, S. L., & Co. (See Kier, George L., assignor.)
- Allen, S. L., & Co. (See Kier, G. L., and Richie, assignors.)
- Allen, Samuel C., near Dayton, assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Tennis racket or similar article. Des. 77,633; Feb. 5.
- Allen, Samuel G., trustee. (See Davis, Frank W., assignor.)
- Allen, Samuel G., trustee. (See De Baufre, William L., assignor.)
- Allen, Samuel G., trustee. (See Tolman, R. C., De Baufre, Davis, and Roberts, assignors.)
- Allen, Scott F., and O. N. Wiswell, assignors to Swingspout Measure Co., Los Angeles, Calif. Swing-spout measure having manually-controlled valve. 1,725,170; Aug. 20.
- Allen-Sherman-Hoff Company, The. (See Allen, Frank B., assignor.)
- Allen-Sherman-Hoff Company, The. (See Dunbar, Frank H., assignor.)
- Allen, Sherman T., Beverly Hills, Calif. Vending-machine casing. Des. 79,818; Sept. 3.
- Allen, Spencer F., Malad, Idaho. Cattle guard. 1,710,854; Apr. 30.
- Allen, Stratford B., Cambridge, Mass. Electrical resistance unit. 1,704,159; Mar. 5.
- Allen, T. V., Company, The. (See Janes, John C., assignor.)



- Allen, Thomas I., Charlotte, N. C. Humidifier for heating systems of automobiles. 1,697,843; Jan. 8.
- Allen, Thomas T., J. F. Adams, and J. S. Dunn, assignors to Sentry Safety Control Corporation, Philadelphia, Pa. Dowser-control mechanism for motion-picture-projecting machines. 1,725,556; Aug. 20.
- Allen, Thomas W., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Attaching Garnett teeth to cylinders. 1,700,621; Jan. 29.
- Allen, Walter, Whittier, Calif. Dark-room safe light. 1,715,884; June 4.
- Allen, Walter B., Worcester, assignor to Craftex Company, Boston, Mass. Wall finish. 1,718,936; July 2.
- Allen, Walter E., jr., assignor to Automatic Door and Equipment Co., Chicago, Ill. Hinge. Des. 79,319; Sept. 3.
- Allen, William G., Salem, Oreg. Venting and sealing cans. 1,730,961; Oct. 8.
- Allen, William H., assignor, by mesne assignments, to Parker Rust Proof Company, Detroit, Mich. Rustproofing process. Re17,484; Nov. 12.
- Allen, William H., assignor, by mesne assignments, to Parker Rust Proof Company, Detroit, Mich. Rustproofing articles of iron and steel. 1,735,842; Nov. 19.
- Allen, William R., Hudson, assignor to The American Multipograph Company, Cleveland, Ohio. Apparatus for clamping printing strips on a holder. 1,734,707; Nov. 5.
- Allen, William S., assignor to P. H. Chase, Philadelphia, Pa. Pressure device. 1,702,990; Feb. 19.
- Allen, William Y., Berkeley, Calif. Device for joining cards. 1,740,215; Dec. 17.
- Allenou, Charles M. V., Nantes, France. Safety device for avoiding back-firing in carburetors. 1,740,760; Dec. 24.
- Alles, Henry, San Francisco, Calif. Traffic-signaling device. 1,708,349; Apr. 9.
- Alley, Frederick L., Dayton, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,728,950; Sept. 24.
- Alley, Lyman E. (See Jennings, M. O., and Alley.)
- Alley, Stephen E., London, and A. C. Hutt, Shrewsbury, assignors to The "Sentinel" Waggon Works Limited, London, England. Tipping vehicle. 1,730,962; Oct. 8.
- Allgemeine Elektrizitäts-Gesellschaft. (See Kleinow, W., Morgenroth, Reinhardt, and Bruer, assignors.)
- Allgemeine Elektrizitäts-Gesellschaft. (See Gadegast, Hermann, assignor.)
- Allgemeine Gesellschaft für Chemische Industrie m. b. H. (See Jodeck, Paul, assignor.)
- Alliance Machine Company, The. (See Kendall, Edgar H., assignor.)
- Alliance Toy & Specialty Company, The. (See Lewis, Owen L., assignor.)
- Allied Packers, Incorporated. (See Appleton, Joseph H., assignor.)
- Ailing, Guy E., assignor to Athol Manufacturing Company, Athol, Mass. Coated fabric. Des. 79,056; July 30.
- Ailing, Guy E., Athol, Mass., assignor to Athol Manufacturing Company. Coated fabric. Des. 79,057; July 30.
- Allington & Curtis Manufacturing Company, The. (See Hurlburt, Gerald Ty, assignor.)
- Allington, Edward L., Chillicothe, Ill. Braking mechanism for railroad trucks. 1,701,290; Feb. 5.
- Allington, John B., Rochester, N. Y. Gas-heated furnace. 1,723,716; Aug. 6.
- Alliott, Eustace A. (See Hatfield, A. E., and Alliott.)
- Alliott, Eustace A., Greenbank, Chesham Bois, and A. E. Hatfield, Leytonstone, London, England. Filtration. 1,713,317; May 14.
- Allis-Chalmers Manufacturing Company. (See Anderson, Victor E., assignor.)
- Allis-Chalmers Manufacturing Company. (See Andersson, Pelle, assignor.)
- Allis-Chalmers Manufacturing Company. (See Briker, Edward J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Brown, Edwin H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Burd, Edward M., assignor.)
- Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Cooper, George E., assignor.)
- Allis-Chalmers Manufacturing Company. (See Dumbleton, Fred E., assignor.)
- Allis-Chalmers Manufacturing Company. (See Earle, Ralph H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Fulpius, Edmond, assignor.)
- Allis-Chalmers Manufacturing Company. (See Furnas, W. C., and Rusch, assignors.)
- Allis-Chalmers Manufacturing Company. (See Geist, Walter, assignor.)
- Allis-Chalmers Manufacturing Company. (See Greisen, Elijah C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Griffiths, Walter W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Gross, Emil, assignor.)
- Allis-Chalmers Manufacturing Company. (See Hagmaier, W. G., and Shaw, assignors.)
- Allis-Chalmers Manufacturing Company. (See Hall, Alan E., assignor.)
- Allis-Chalmers Manufacturing Company. (See Henderson, Charles L., assignor.)
- Allis-Chalmers Manufacturing Company. (See Kane, John J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Lieber, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Martin, C. R., and Nye, assignors.)
- Allis-Chalmers Manufacturing Company. (See Merkel, W. J., and Shaw, assignors.)
- Allis-Chalmers Manufacturing Company. (See Mortensen, Soren H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Muth, Herbert J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Nye, Henry V., assignor.)
- Allis-Chalmers Manufacturing Company. (See Nye, H. V., and Earle, assignors.)
- Allis-Chalmers Manufacturing Company. (See Pfau, Arnold, assignor.)
- Allis-Chalmers Manufacturing Company. (See Powell, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Rheingans, William J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Schmidt, Franz, assignor.)
- Allis-Chalmers Manufacturing Company. (See Steen, Charles W., assignor.)
- Allis-Chalmers Manufacturing Company. (See Tolman, Charles P., assignor.)
- Allis-Chalmers Manufacturing Company. (See Watson, William, assignor.)
- Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
- Allis-Chalmers Manufacturing Company. (See Zimmermann, James G., assignor.)
- Allison, Albert J., Dayton, Ohio, assignor, by mesne assignments, to Simonds Worden White Company. Bed-plate for beating engines. 1,727,329; Sept. 10.
- Allison, Arthur, Long Beach, Calif. Expansive rotary bit. 1,705,055; Mar. 12.
- Allison, Arthur E., Coatesville, Pa., assignor to Worth Steel Company, Claymont, Del. Manufacturing man-hole covers. 1,707,891; Apr. 2.
- Allison, Benjamin F. (See Summey, A. B., Allison, and Summey.)
- Allison, Frank, Okmulgee, Okla. Enlarging extension for cameras. 1,724,866; Aug. 13.
- Allison, Grover C., Canton, Ohio. Razor sharpener. 1,709,051; Apr. 16.
- Allison, Harvey M. (See Walker, E. A., and Allison.)
- Allison, William I., assignor to J. P. Ahern and himself, Akron, Ohio. Doorstop. 1,701,652; Feb. 12.
- Allman, Estell V., Kansas City, Mo. Tank cap and lock. 1,716,202; June 4.
- Allman, George, and S. B. Hemming, Parkerville, Western Australia, Australia. Brooder. 1,728,848; Sept. 17.
- Allmänna Svenska Elektriska Aktiebolaget. (See Dreyfus, Ludwig, assignor.)
- Allmänna Svenska Elektriska Aktiebolaget. (See Norberg, Sven, assignor.)
- Allmänna Svenska Elektriska Aktiebolaget. (See Petersén, Wilhelm H., assignor.)
- Alloy Boat Corporation. (See Chisholm, Harry L., jr., assignor.)
- Alloy Steel Corporation. (See Herman, G. N., and Mohr, assignors.)
- Allop, Thomas, and H. H. Wigglesworth, assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. 1,721,061; July 16.
- Allop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machine Company, Philadelphia, Pa. Drying machine. 1,734,001; Oct. 29.
- Allsopp, Thomas, Newark, N. J. Flexible chain. 1,701,941; Feb. 12.
- All-Steel-Equip Company. (See Raquette, Joseph G., assignor.)
- Alltop, Haymond R., assignor of one-half to O. M. Doolittle, Fairmont, W. Va. Wheel-lifting device. 1,735,713; Nov. 12.
- All-Ways-Hot Mfg. Co., The. (See Goshorn, Robert R., assignor.)
- Allworth, Arthur B., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,698,708; Jan. 15.
- Allyn, Arthur W., Sebring, Fla. Trestle. 1,726,375; Aug. 27.
- Allyn, William N., Auburn, N. Y. Light-producing surgical instrument. 1,712,865; May 14.
- Allyn, William N., Auburn, N. Y. Anoscope. 1,712,866; May 14.
- Allyne, Edmund E. (See Brockett, Bluford W., assignor.)
- Allyne, Edmund E. (See Gruber, Edward, assignor.)
- Allyne, Edmund E. (See Schickler, Albert C., assignor.)
- Alma, Carl E. (See Alma, Maxmillan and C. E.)
- Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
- Alma, Maxmillan and C. E., Vienna, Austria. Draft mechanism for railroad vehicles. 1,707,155; Mar. 26.
- Almedia, Jose M., Los Angeles, Calif. Directional signal for vehicles. 1,698,666; Jan. 8.



- Almen, Harold V., assignor to General Motors Corporation, Detroit, Mich. Self-adjusting valve mechanism. 1,707,749; Apr. 2.
- Almen, John O., Seattle, Wash. Making cylinders. 1,721,197; July 16.
- Almetal Universal Joint Company, The. (See Peters, Frederick W., assignor.)
- Almond, John, Methuen, assignor to Draper Corporation, Hopedale, Mass. Harness motion for looms. 1,718,198; June 18.
- Almquist, Leopold, Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,727,689; Sept. 10.
- Almquist, Leopold, New York, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Drain trap. 1,727,688; Sept. 10.
- Almquist, Milton L., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Alternating-current relay. 1,736,816; Nov. 26.
- Aloisi, Anna, Brooklyn, N. Y. Lamp. Des. 79,781; Nov. 5.
- Alonzi Furniture Co. (See Alonzi, Loreto P., assignor.)
- Alonzi, Loreto P., assignor to Alonzi Furniture Co., Chicago, Ill. Radiocabinet. Des. 79,219; Aug. 20.
- Alonzi, Loreto P., assignor to Alonzi Furniture Company, Chicago, Ill. Radiocabinet. Des. 79,275; Aug. 27.
- Alonzo, Salvatore, Brooklyn, N. Y. Hat covering. 1,706,205; Mar. 19.
- Alox Chemical Corporation. (See Burwell, Arthur W., assignor.)
- Alpern, Max, assignor of one-half to Papick & Schantzer, New York, N. Y. Finger ring. 1,712,783; May 14.
- Alpern, Samuel, Pittsburgh, Pa. Stocking. Des. 78,914; July 2.
- Alpern, Samuel, Pittsburgh, Pa. Stocking. Des. 78,915; July 2.
- Alpern, Samuel, Pittsburgh, Pa. Stocking. Des. 79,002; July 23.
- Alpern, Samuel, Pittsburgh, Pa. Stocking. Des. 79,003; July 23.
- Alpha Lambda Tau Fraternity. (See Morrison, Theodore V., assignor.)
- Alsaker, Alfred, and S. J. Lurie, assignor to The Delta-Star Electric Company, Chicago, Ill. Switch. 1,709,453; Apr. 16.
- Alsberg, Julius, assignor to The Superheater Company, New York, N. Y. Method and composition for preventing the formation of scale. 1,717,905; June 18.
- Alsop, Bennie H., Tillamook, Oreg. Automobile turning signal. 1,734,512; Nov. 5.
- Alsop, James N., Alexandria, La., assignor to Smoked Products Company, Incorporated, Cincinnati, Ohio. Method of and apparatus for making smoke. 1,698,749; Jan. 15.
- Alsop, James N., Owensboro, Ky. Collecting and utilizing smoke constituents and the product thereof. 1,719,354; July 2.
- Alsop, James N., Owensboro, Ky., assignor to Smoked Products Company, Incorporated, Cincinnati, Ohio. Apparatus for collecting and utilizing constituents of gaseous elements. 1,719,353; July 2.
- Alstrand, Felix K., New York, N. Y. Billfold and coin holder. 1,723,117; Aug. 6.
- Altbach, George H., Brooklyn, N. Y., assignor to Eagle Lites, Inc. Lighting-fixture canopy or analogous article. Des. 77,517; Jan. 22.
- Altbach, George H., Brooklyn, N. Y., assignor to Eagle Lites, Inc. Lighting fixture plate or analogous article. Des. 77,518; Jan. 22.
- Altenbach, Otto, Los Angeles, Calif. Top for automobile rumble seats. 1,729,919; Oct. 1.
- Altenecker, Theo., & Sons. (See Meyer, Francis E., assignor.)
- Altenkirsch, Edmund, Alt-Landsberg-Süd, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Absorption machine. 1,700,276; Jan. 29.
- Altenkirsch, Edmund, Alt-Landsberg-Süd, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Absorption machine. 1,735,487; Nov. 12.
- Altenkirsch, Edmund, Fredersdorf, near Alt-Landsberg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, Berlin, Germany. Refrigerating apparatus of the absorption type. 1,728,742; Sept. 17.
- Alter, Harry, Company, The. (See Alter, Leo, assignor.)
- Alter, Leo, Chicago, Ill., assignor to The Harry Alter Company. Tire. Des. 78,001; Mar. 19.
- Altgelt, Herman E. (See Altgelt, Rudolph J. and H. E.)
- Altgelt, Herman E., assignor to Oliver Chilled Plow Works, South Bend, Ind. Harrow. 1,703,051; Feb. 19.
- Altgelt, Herman E., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company, Planter. 1,735,714; Nov. 12.
- Altgelt, Herman E., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Traction-wheel lug. 1,735,715; Nov. 12.
- Altgelt, Herman E., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Agricultural implement. 1,738,510; Dec. 10.
- Altgelt, Rudolph J., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Tractor plow. 1,729,639; Oct. 1.
- Altgelt, Rudolph J., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Planter. 1,729,642; Oct. 1.
- Altgelt, Rudolph J., and C. H. Gemberling, assignors to Oliver Chilled Plow Works, South Bend, Ind. Plow. 1,727,852; Sept. 10.
- Altgelt, Rudolph J. and H. E., assignors to Oliver Chilled Plow Works, South Bend, Ind. Tractor plow structure. 1,719,743; July 2.
- Althens, Herbert E. (See Carlson, A. F., and Althens.)
- Althoff, August W., Tulsa, Okla. Jacking and traversing attachment for motor vehicles. 1,740,385; Dec. 17.
- Althoff, Walter, Bockenem-on-the-Harz, Germany. Metal barrel. 1,709,701; Apr. 16.
- Althoff, Walter, Bockenem-on-the-Harz, Germany. Vat for washing fiber material and the like wound on bobbins. 1,725,045; Aug. 20.
- Altinari, George, and J. A. Campbell, Parsons, Kans., assignors to E. H. and M. H. Baker, Davenport, Iowa. Flue sander. Rel7,506; Nov. 26.
- Altman, Charles. (See Barbosa, Quintino, assignor.)
- Altman, Clay, and R. D., Oklahoma City, Okla., and H. V. Parker, Wichita, Kans. Device for removing plaster of Paris casts from the human body. 1,737,552; Dec. 3.
- Altman, Edward M. (See Busco, John, assignor.)
- Altman, Frank P. and F. V., St. Louis, Mo. Register. 1,726,792; Sept. 3.
- Altman, Frank V. (See Altman, Frank P. and F. V.)
- Altman, Russell D. (See Altman, C., and Parker.)
- Altman, Simon, Bronx, N. Y. Paper-currency holder. 1,741,270; Dec. 31.
- Altorfer, Alpheus W., Peoria, Ill. Washing machine. 1,704,932; Mar. 12.
- Altorfer, Alpheus W., Peoria, Ill. Folding wringer mechanism. 1,728,651; Sept. 17.
- Altorfer, Alpheus W., Peoria, Ill. Washing machine. 1,740,938; Dec. 24.
- Altorfer, Alpheus W., Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill. Combined casing and frame for a washing machine. Des. 79,004; July 23.
- Altorfer, Alpheus W., Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,717,177; June 11.
- Altorfer, Alpheus W., Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill. Drier for washing machines. 1,717,178; June 11.
- Altorfer, Alpheus W., Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill. Drier for washing machines. 1,717,179; June 11.
- Altorfer, Alpheus W., Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill. Centrifugal drier. 1,717,646; June 18.
- Altorfer, Alpheus W., Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,738,753; Dec. 10.
- Altorfer Bros. Company. (See Altorfer, Alpheus W., assignor.)
- Altorfer Bros. Company. (See Defibaugh, Mark A., assignor.)
- Altorfer Bros. Company. (See Vieau, Harold F., assignor.)
- Altwegg, Jean, and A. M. Dutel, Lyon, assignors to Societe Des Usines Chimiques Rhone-Poulenc, Paris, France. Dry process of manufacturing calcium arsenite. 1,700,756; Feb. 5.
- Aluminum Company of America. (See Archer, R. S., and Fink, assignors.)
- Aluminum Company of America. (See Bezzenberger, Fred K., assignor.)
- Aluminum Company of America, The. (See Bjornson, Ingvard B., assignor.)
- Aluminum Company of America. (See Feltes, Frank L., assignor.)
- Aluminum Company of America. (See Guyot, Marius, assignor.)
- Aluminum Company of America. (See Jardine, Frank, assignor.)
- Aluminum Company of America. (See Jeffries, Z., and Archer, assignors.)
- Aluminum Company of America. (See Norton, Allen B., assignor.)
- Aluminum Company of America. (See Stay, Theron D., assignor.)
- Aluminum Company of America. (See Varney, Theodore, assignor.)
- Aluminum Company of America. (See Varney, T., and Noyes, assignors.)
- Aluminum Company of America. (See Welty, George D., assignor.)
- Aluminum Company of America, The. (See Wilson, John H., assignor.)
- Aluminum Goods Manufacturing Co. (See Drumm, Elmer E., assignor.)
- Aluminum Goods Manufacturing Company. (See Tollagssen, Olaf, assignor.)
- Aluminum Industrie Aktiengesellschaft. (See Weber, J., and Hauser, assignors.)
- Aluminum Screw Machine Products Company. (See McDonnell, Frank W., assignor.)
- Aluminum Screw Machine Products Company. (See Taylor, Merton W., assignor.)
- Alvarado, Guillermo E. (See Grosser, Hans, assignor.)

- Alverson, David O., Muskegon, Mich. Holder. 1,725,241; Aug. 20.
- Alvey, Benjamin H., assignor to Alvey-Fihe Company, Incorporated, Louisville, Ky. Sirup-dispensing pump. 1,723,909; Aug. 6.
- Alvey-Ferguson Company, The. (See Burnham, M. U., Argabrite, and Dionne, assignors.)
- Alvey-Fihe Company. (See Alvey, Benjamin H., assignor.)
- Alvey Manufacturing Company. (See Langsdorf, Alexander S., assignor.)
- Alvey Manufacturing Company. (See Marble, Louis C., assignor.)
- Alvin Corporation, The. (See Staf, Axel H., assignor.)
- Alvin, Jack F., assignor of one-half to A. Dumas, San Diego, Calif. Variable condenser for radio apparatus. 1,707,455; Apr. 2.
- Alvord, Clinton, Worcester, Mass. Tuft frame for tufted-pile-fabric looms. 1,713,506; May 14.
- Alvord, Grove D., assignor to Archbold Brady Company, Syracuse, N. Y. Ground-wire connection for flexible towers. 1,699,483; Jan. 15.
- Alwill, Arthur J., Rutland, Vt., assignor to Vermont Marble Company, Arbor. 1,706,206; Mar. 19.
- Alwin Manufacturing Co. (See Krueger, Albert G., assignor.)
- Amador, Joaquin M., Habana, Cuba. Carburetor. 1,712,129; May 7.
- Amaducci, Mario, Martinez, Calif. Folding table or similar article. 1,697,550; Jan. 1.
- Amalgamated Dental Company Limited, The. (See Wilding, Sidney W., assignor.)
- Amann, August, Wiesbaden, Germany, assignor to Chemische Fabriken Dr. Kurt Albert G. m. b. H., Biebrich-on-the-Rhine-Amoenburg, Germany. Reaction product of a natural resin-phenolic resinous material and making same. 1,736,757; Nov. 19.
- Ambill, Harry P., Dormont, Pa. Arch support. 1,702,531; Feb. 19.
- Ambler, George B., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Loom. 1,706,371; Mar. 19.
- Ambler, George B., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Spliced paper reed. 1,741,392; Dec. 31.
- Ambler, Sam, Bradford, England. Spindle apparatus for ring-spinning and like frames. 1,723,396; Aug. 6.
- Ambory, Paul, Hazel Park, Mich. Electric water heater. 1,713,995; Oct. 15.
- Ambrette, Conrad, Brooklyn, assignor to Cevasco, Cavanaugh & Ambrette, Inc., New York, N. Y. Press for forming alimentary pastes. 1,724,545; Aug. 13.
- Ambros, Otto. (See Grissbach, E., and Ambros.)
- Ambrose, Ernest R., Topeka, Kans. Flange for automobile wheels. Des. 79,005; July 23.
- Ambrose, Henry W., Conway, S. C. Sawmill-carriage-knee snubber. 1,714,837; May 28.
- Ambrose, John R. W., Toronto, Ontario, Canada. Track and platform arrangement for railway stations. 1,714,582; May 28.
- Ambrose, William F., and J. B. Forrester, Woodlawn, Pa. Flooting valve. 1,712,015; May 7.
- Ambursen, Nils F., Swissvale, Pa. Dam apparatus. 1,726,522; Sept. 3.
- Amco, Incorporated. (See Morton, William A., assignor.)
- Ameglio, Pietro, Genoa, Italy. Electrothermic fire alarm. 1,712,975; May 14.
- Amen, David, et al. (See Amen, Fred W., assignor.)
- Amen, Fred W., deceased, assignor of one-third to J. Amen and one-third to D. Amen, Sterling, Colo.; W. J. Schledewitz, administrator. Beet loader. 1,726,604; Sept. 3.
- Amen, Jacob, et al. (See Amen, Fred W., assignor.)
- Amend, William, Rochester, N. Y. Game. 1,741,903; Dec. 31.
- Ament, Lucy C., New York, N. Y. Handle for articles. Des. 79,059; July 30.
- Ament, Lucy C., New York, N. Y. Bottle cap and opener. 1,703,759; Feb. 26.
- Ament, Lucy C., New York, N. Y. Windshield. 1,720,460; July 9.
- Ament, Lucy C., New York, N. Y. Bottle and opener. 1,725,726; Aug. 20.
- American Agar Company. (See Becker, John, assignor.)
- American Aggregate Company. (See Hayde, Stephen J., assignor.)
- American Aluminum Ware Co. (See Brucker, Henry, assignor.)
- American Anode, Inc. (See Sheppard, S. E., and Eberlin, assignors.)
- American Arch Company. (See Dobie, Bradley, assignor.)
- American Arch Company. (See Himmelright, Raleigh J., assignor.)
- American Assembling Machine Company. (See Juengst, Charles A., assignor.)
- American Assembling Machine Company. (See Kleineberg, Paul E., assignor.)
- American Auto Lamp Co. (See Cruess, George H., assignor.)
- American Automatic Sanitation Company. (See Grafani, L. B., and Peterson, assignors.)
- American Automatic Transmission Corporation. (See Stucature, Matthew, assignor.)
- American Bakers Machinery Company. (See Russell, Charles L., assignor.)
- American Bank Note Company. (See Eriksen, James P., assignor.)
- American Bemberg Corporation. (See Elsaesser, E., and Kempf, assignors.)
- American Bemberg Corporation. (See Hartmann, August, assignor.)
- American Bemberg Corporation. (See Hofmann, Hugo, assignor.)
- American Bemberg Corporation. (See Meyer-Gaus, Karl, assignor.)
- American Bicheroux Company. (See Gentil, E., and Mathé, assignors.)
- American Bicheroux Company, The. (See Heuze, Charles, assignor.)
- American Bitumuls Company. (See Braun, Carl A., assignor.)
- American Blower Corporation. (See Morse, Clark T., assignor.)
- American Blower Corporation. (See Pfeffer, Henry W., assignor.)
- American Blower Corporation. (See Rowe, William A., assignor.)
- American Bosch Magneto Corporation. (See Bartsch, A. H., assignor, and Hopkins.)
- American Bosch Magneto Corporation. (See Curtis, L. F., and Martin, assignors.)
- American Bosch Magneto Corporation. (See Martin, John F., assignor.)
- American Bosch Magneto Corporation. (See Shulimson, Israel A., assignor.)
- American Bottlers of Carbonated Beverages. (See Buchanan, John H., assignor.)
- American Brake Materials Corporation. (See Thompson, James S., assignor.)
- American Brass Company, The. (See Bassett, William H., assignor.)
- American Brass Company, The. (See Coe, James R., assignor.)
- American Brass Company, The. (See Lowe, William, assignor.)
- American Brown, Boveri Electric Corporation. (See Marti, Othmar K., assignor.)
- American Buckle Co., The. (See Salisbury, Jessup, assignor.)
- American By-Product Machinery Company, The. (See MacLachlan, Angus, assignor.)
- American Cable Company. (See Burd, Gorman C., assignor.)
- American Cable Company. (See Conner, Edward A., assignor.)
- American Cable Company. (See Rosenberg, Ralph H., assignor.)
- American Cable Company. (See Scott, Rumsey W., assignor.)
- American Calendar Co. (See Mooney, Richard E., jr., assignor.)
- American Can Company. (See Block, William I., assignor.)
- American Can Company. (See Bryant, Harvey L., assignor.)
- American Can Company. (See Butler, William F., assignor.)
- American Can Company. (See Clark, Berton S., assignor.)
- American Can Company. (See Corey, Harry R., assignor.)
- American Can Company. (See Craver, Harry, assignor.)
- American Can Company. (See Dister, Joseph, assignor.)
- American Can Company. (See Dunn, George H., assignor.)
- American Can Company. (See Eberhart, Felix, assignor.)
- American Can Company. (See Fritzsche, George H., assignor.)
- American Can Company. (See Gray, James A., assignor.)
- American Can Company. (See Hoffman, Edmund, assignor.)
- American Can Company. (See Holloway, J. C., and Schulz, assignors.)
- American Can Company. (See Hothersall, John M., assignor.)
- American Can Company. (See Hothersall, J. M., and Odquist, assignors.)
- American Can Company. (See Johantges, John S., assignor.)
- American Can Company. (See Jones, Lyman L., assignor.)
- American Can Company. (See Lindgren, Stanley H., assignor.)
- American Can Company. (See Magill, Donald G., assignor.)
- American Can Company. (See Matcovich, Joseph, assignor.)
- American Can Company. (See Mielziner, William J., assignor.)
- American Can Company. (See Misuraca, William N., assignor.)
- American Can Company. (See Nordquist, Ronald E. J., assignor.)
- American Can Company. (See Peters, John F., assignor.)
- American Can Company. (See Saalbach, Arthur A., assignor.)
- American Can Company. (See Taylor, William E., assignor.)
- American Can Company. (See Tevander, Swan N., assignor.)



- American Can Company. (See Toleik, John A., assignor.)  
 American Can Company. (See Walter, George F., assignor.)  
 American Can Company. (See Warren, Edward F., assignor.)  
 American Can Company. (See Widell, Magnus E., assignor.)  
 American Can Company. (See Wolfe, Henry W., assignor.)  
 American Can Company. (See Young, John M., assignor.)  
 American Car and Foundry Company. (See Almquist, Leopold, assignor.)  
 American Car and Foundry Company. (See Almquist, L., and Willoughby, assignors.)  
 American Car and Foundry Company. (See Auchincloss, William K., assignor.)  
 American Car and Foundry Company. (See Beyer, John, assignor.)  
 American Car and Foundry Company. (See Brown, Amos, assignor.)  
 American Car and Foundry Company. (See Cork, Tudor C., assignor.)  
 American Car and Foundry Company. (See Elder, Thomas W., jr., assignor.)  
 American Car and Foundry Company. (See Folmsbee, Clyde H., assignor.)  
 American Car and Foundry Company. (See Gibbs, F. H., and Willoughby, assignors.)  
 American Car and Foundry Company. (See Griffin, William, assignor.)  
 American Car and Foundry Company. (See Hummer, Charles I., assignor.)  
 American Car and Foundry Company. (See Johnson, W. V., and Kepner, assignors.)  
 American Car and Foundry Company. (See Joy, Robert W., assignor.)  
 American Car and Foundry Company. (See Kassler, Adolph, assignor.)  
 American Car and Foundry Company. (See Kassler, A., and Willoughby, assignors.)  
 American Car and Foundry Company. (See Keller, J. M., and Ames, assignors.)  
 American Car and Foundry Company. (See McBride, John J., assignor.)  
 American Car and Foundry Company. (See Mitzenius, Charles W., assignor.)  
 American Car and Foundry Company. (See Ostrander, A. E., and Willoughby, assignors.)  
 American Car and Foundry Company. (See Rogers, Clancy M., assignor.)  
 American Car and Foundry Company. (See Rohlfing, John M., assignor.)  
 American Car and Foundry Company. (See Rushton, Philip, assignor.)  
 American Car and Foundry Company. (See Scheibli, Robert J., jr., assignor.)  
 American Car and Foundry Company. (See Scott, Walter, assignor.)  
 American Car and Foundry Company. (See Steinmeyer, J. W., and Willoughby, assignors.)  
 American Car and Foundry Company. (See Thompson, John D., assignor.)  
 American Car and Foundry Company. (See Thompson, J. D., and Willoughby, assignors.)  
 American Car and Foundry Company. (See Willoughby, Victor, assignor.)  
 American Car and Foundry Motors Company. (See Carnie, J. A., and Sutton, assignors.)  
 American Car and Foundry Motors Company. (See Hall, Elbert J., assignor.)  
 American Car and Foundry Motors Company. (See Hawkes, Arthur G., assignor.)  
 American Car and Foundry Motors Company. (See Mathauer, Edmund G., assignor.)  
 American Car and Foundry Motors Company. (See Ostrander, Allen E., assignor.)  
 American Car and Foundry Motors Company. (See Walker, Hubert, assignor.)  
 American Car and Foundry Motors Company. (See Whitten, Frank A., assignor.)  
 American Cash Register Co. (See Paden, William L., assignor.)  
 American Cast Iron Pipe Co. (See Barr, Clarence D., assignor.)  
 American Cast Iron Pipe Co. (See Barr, C. D., and Moore, assignors.)  
 American Cast Iron Pipe Co. (See Moore, William D., assignor.)  
 American Chain Company. (See Conner, Edward A., assignor.)  
 American Chain Company. (See Delano, Howard A., assignor.)  
 American Chain Co. (See Fageol, Rollie B., assignor.)  
 American Chain Company. (See Goetz, Oscar H., assignor.)  
 American Chain Company. (See Lyon, George A., assignor.)  
 American Chain Company. (See Pierce, Robert C., assignor.)  
 American Chain Company. (See Reyburn, John R., assignor.)  
 American Chain Company. (See Schlossberg, John B., assignor.)  
 American Chain Company. (See Yanss, George W., assignor.)  
 American Chemical Paint Company. (See Gravell, James H., assignor.)  
 American Chicle Company. (See O'Neill, P. M., and Simeone, assignors.)  
 American Coating Mills. (See Colbert, C. C., and Preston, assignors.)  
 American Concrete Products Co. (See Hanna, David B., assignor.)  
 American Crayon Company, The. (See Daniels, Charles E., assignor.)  
 American Creosoting Company. (See Cook, Jesse C., assignor.)  
 American Cuptor Corporation. (See Weckbaugh, Joseph V., assignor.)  
 American Cyanamid Company. (See Barsky, George, assignor.)  
 American Cyanamid Company. (See Barsky, G., and Giles, assignors.)  
 American Cyanamid Company. (See Barsky, G., and Griffith, assignors.)  
 American Cyanamid Company. (See Buchanan, Guy H., assignor.)  
 American Cyanamid Company. (See Buchanan, G. H., Barsky, and Ashley, assignors.)  
 American Cyanamid Company. (See Christmann, Ludwig J., assignor.)  
 American Cyanamid Company. (See Cox, George E., assignor.)  
 American Cyanamid Company. (See Heuser, Ralph V., assignor.)  
 American Cyanamid Company. (See Mathey, E. D., and Williams, assignors.)  
 American Cyanamid Company. (See Rugh, John M., assignor.)  
 American Doucil Company. (See Hilditch, T. P., and Wheaton, assignors.)  
 American Dressler Tunnel Kilns, Inc. (See Brain, George, assignor.)  
 American Dressler Tunnel Kilns, Inc. (See Dressler, Philip d'H., assignor.)  
 American Dressler Tunnel Kilns. (See Meehan, Paul A., assignor.)  
 American Dry Concentrator Co. (See Macartney, John H., assignor.)  
 American Dry Milk Institute, Inc. (See Van Norman, Hubert E., assignor.)  
 American Electric Company. (See Burns, Peter C., assignor.)  
 American Electric Company. (See Larsen, Christian J., assignor.)  
 American Electric Fusion Corporation. (See von Henke, Edmund J., assignor.)  
 American Electric Motor Company. (See Daun, C. L., and Keller, assignors.)  
 American Electrical Heater Company. (See Kuhn, Frank, assignor.)  
 American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)  
 American Electrical Heater Company. (See Lockwood, Erwin A., assignor.)  
 American Enameled Brick & Tile Co. (See Hagopian, Vahan, assignor.)  
 American Encaustic Tiling Company. (See McCoy, William, assignor.)  
 American Engineering Company. (See Harrison, Clifford E., assignor.)  
 American Engineering Company. (See Smith, George E., assignor.)  
 American Engineering Company. (See Weingartner, Anthony E., assignor.)  
 American Equipment Company, The. (See Fuller, Claud E., assignor.)  
 American Equipment Company. (See Penfield, R. C., and Fuller, assignors.)  
 American Equipment Company, The. (See Strickland, David, assignor.)  
 American Expansion Wheel Corporation. (See Townsend, Frank L., assignor.)  
 American Fabrics Company, The. (See Barnum, Harry B., assignor.)  
 American Fabrics Company, The. (See Page, Samuel H., assignor.)  
 American Felt Company. (See Freyer, Bela, assignor.)  
 American Fibre Corporation. (See Baldwin, Earl F., assignor.)  
 American Fixture & Showcase Manufacturing Company. (See Mendle, Milton D., assignor.)  
 American Flange & Manufacturing Co. (See Parish, Richard L., assignor.)  
 American Flange & Manufacturing Co. (See Strama, Joseph, assignor.)  
 American Floor Surfacing Machine Company, The. (See Myers, Harry L., assignor.)  
 American Fluid Motors Company. (See Landenberger, H. W., and Cannon, assignors.)  
 American Flyer Manufacturing Company. (See Arden, Thomas R., assignor.)  
 American Flyer Mfg. Co. (See Cuff, James E., assignor.)  
 American Fork & Hoe Company, The. (See Bergmann, William H., assignor.)  
 American Fork & Hoe Company, The. (See Cowdery, Robert H., assignor.)  
 American Fork & Hoe Company, The. (See Fifield, Albert F., assignor.)

- American Fork & Hoe Company, The. (See Keough, Robert E., assignor.)  
 American Fork & Hoe Company, The. (See Slough, Frank M., assignor.)  
 American Fork & Hoe Company, The. (See Wilcox, Hallie M., assignor.)  
 American Fork & Hoe Company, The. (See Withington, Winthrop, assignor.)  
 American Formblock System Company. (See Roberts, O. B., Jr., and Sheets, assignors.)  
 American Foundry Equipment Company. (See Graf, Fred, assignor.)  
 American Foundry Equipment Company, The. (See Moore, Raymond H., assignor.)  
 American Foundry Equipment Company, The. (See Rich, E. A., and Haley, assignors.)  
 American Foundry & Manufacturing Co. (See Sanders, Joseph C., assignor.)  
 American Gasaccumulator Company. (See Eskilson, Sven A., assignor.)  
 American Gasaccumulator Company. (See Hingsburg, Frederick C., assignor.)  
 American Gasaccumulator Company. (See Spiegelberg, Johan H. F., assignor.)  
 American Gasaccumulator Company. (See Steil, Edmund, assignor.)  
 American Gas Accumulator Company. (See Viksten, E. G., and Holm, assignors.)  
 American Gas Products Corporation. (See Beach, Brewster S., assignor.)  
 American Gas Products Corporation. (See Wolff, Saul K., assignor.)  
 American Gas Turbine Corporation. (See Harper, William, Jr., assignor.)  
 American Glue Company. (See Campbell, Charles H., assignor.)  
 American Glue Company. (See Davis, John F. A., assignor.)  
 American Glue Company. (See Webber, James F., assignor.)  
 American Hair & Felt Company. (See Burghardt, Clair A., assignor.)  
 American Hammered Piston Ring Company, The. (See Justice, William N., assignor.)  
 American Hammered Piston Ring Company, The. (See Morton, Allen W., assignor.)  
 American Hand Rubber Company. (See Weida, Harry W., assignor.)  
 American Hardware Corporation, The. (See Hausmann, William F., assignor.)  
 American Hardware Corporation, The. (See Hurd, Norman B., assignor.)  
 American Hardware Corporation, The. (See Moore, W. F., and Storer, assignors.)  
 American Hardware Corporation, The. (See Petermann, Otto, assignor.)  
 American Hardware Corporation, The. (See Robb, Andrew, assignor.)  
 American Heat Preserver Co. (See Kelm, Richard E., assignor.)  
 American Heater Corporation. (See Tabler, Harry C., assignor.)  
 American Hoist & Derrick Company. (See Bruning, Hermann, assignor.)  
 American Hoist & Derrick Co. (See Sederholm, John E., assignor.)  
 American Hydrocarbon Company. (See Clayton-Kennedy, Kenneth E., assignor.)  
 American Injector Company. (See Diederich, Paul E., assignor.)  
 American Kambi Company. (See Wersäll, Karl J., assignor.)  
 American Katalite Corporation. (See Sokal, Edward, assignor.)  
 American Kreuger & Toll Corporation. (See Goodloe, Alfred M., assignor.)  
 American Lace Paper Company. (See Conrad, Fred A., assignor.)  
 American La France and Foamite Corporation. (See Boniface, Addison O., assignor.)  
 American La France and Foamite Corporation. (See Erwin, O. R., and Witter, assignors.)  
 American La France and Foamite Corporation. (See Gilbert, Victor G. W., assignor.)  
 American La France and Foamite Corporation. (See Walker, William W., assignor.)  
 American La France and Foamite Corporation. (See Witter, Willis D., assignor.)  
 American Laundry Machinery Company, The. (See Beattie, William P., assignor.)  
 American Laundry Machinery Company, The. (See Brockett, Bluford W., assignor.)  
 American Laundry Machinery Company. (See Carroll, Emil J., assignor.)  
 American Laundry Machinery Company. (See Carroll, E. J., and Johnson, assignors.)  
 American Laundry Machinery Company, The. (See Couch, Forrest J., assignor.)  
 American Laundry Machinery Company, The. (See Curtiss, Howard C., assignor.)  
 American Laundry Machinery Company, The. (See Haney, Angus F., assignor.)  
 American Laundry Machinery Company, The. (See Johnson, George W., assignor.)  
 American Laundry Machinery Company, The. (See Johnson, G. W., and Beattie, assignors.)  
 American Laundry Machinery Company, The. (See Kendrick, William A., assignor.)  
 American Laundry Machinery Company, The. (See McCarthy, John E., assignor.)  
 American Laundry Machinery Company, The. (See Pauly, Robert C., assignor.)  
 American Laundry Machinery Company, The. (See Pearce, Edwin S., assignor.)  
 American Laundry Machinery Company, The. (See Schramm, Albert O., assignor.)  
 American Laundry Machinery Company, The. (See Schramm, A. O., and Schreiber, assignors.)  
 American Laundry Machinery Company, The. (See Singiser, John P., assignor.)  
 American Laundry Machinery Company, The. (See Waream, Charles E., assignor.)  
 American Lead Pencil Company. (See Goldsmith, Byron B., assignor.)  
 American Lead Pencil Company, The. (See Goldsmith, B. E., and Grossman, assignors.)  
 American Luigi Corporation. (See Lay, E., and Mattick, assignors.)  
 American Lurgi Corporation. (See Zagorski, Johann, assignor.)  
 American Liquid Meter Company. (See Bassler, Carlos J., assignor.)  
 American Machine and Foundry Company. (See Bronander, Wilhelm B., assignor.)  
 American Machine & Foundry Company. (See Bronander, W. B., and Leary, assignors.)  
 American Machine & Foundry Company. (See Carpenter, Edwin P., assignor.)  
 American Machine & Foundry Company. (See Farmer, Fred, assignor.)  
 American Machine & Foundry Company. (See Ferenci, Lester, assignor.)  
 American Machine & Foundry Company. (See Foernsler, Max E., assignor.)  
 American Machine & Foundry Company. (See Hawkins, Wilford J., assignor.)  
 American Machine & Foundry Company. (See Klein, Maximilian, assignor.)  
 American Machine & Foundry Company. (See Knudsen, Knud N., assignor.)  
 American Machine & Foundry Company. (See Leary, James W., assignor.)  
 American Machine & Foundry Company. (See Schmitt, Frank R., assignor.)  
 American Machine & Foundry Company. (See Smith, Franklin, assignor.)  
 American Machinery Corporation. (See McGhee, James F., assignor.)  
 American Magnesium Corporation. (See Bakken, Herman E., assignor.)  
 American Maize-Products Company. (See Daly, Raymond E., assignor.)  
 American Manganese Company. (See Wikstrom, Adolf F., assignor.)  
 American Manganese Steel Company. (See Brayton, Corey C., assignor.)  
 American Manganese Steel Company. (See Brinton, Walter, assignor.)  
 American Manganese Steel Company. (See McNinch, William T., assignor.)  
 American Manganese Steel Company. (See Nagle, Perry I., assignor.)  
 American Manganese Steel Company. (See Rorabeck, Claude, assignor.)  
 American Manganese Steel Company. (See Young, Donald H., assignor.)  
 American Manufacturing Company. (See Fliedner, John, assignor.)  
 American Manufacturing Company. (See Rick, A. J., and Fliedner, assignors.)  
 American Marine Device Corporation. (See Lenz, C. S., and Jupp, assignors.)  
 American Mason Safety Tread Company. (See Welcome, Harold A., assignor.)  
 American Metal Cap Company. (See Hammer, Charles, assignor.)  
 American Metal Company. (See Kirmse, E., and Schopper, assignors.)  
 American Metal Molding Co. (See Johnson, Gustave A., assignor.)  
 American Metal Products Co. (See Braz, Jack J., assignor.)  
 American Meter Company. (See Gribbel, Wakeman G., assignor.)  
 American Meter Company. (See Henning, William J., assignor.)  
 American Meter Company. (See Huettig, Arno R., assignor.)  
 American Meter Company. (See Kerstein, Ernest A., assignor.)  
 American Mills Co. (See Chisholm, Lester B., assignor.)  
 American Mills Company, The. (See Shields, Andrew, assignor.)  
 American Mine Door Co. (See Gurney, Albert J., assignor.)  
 American Mining Tool Company. (See Nikolish, Mike, assignor.)  
 American Mining Tool Company. (See Simmons, George B., assignor.)



- American Moistening Company. (See Comins, Frank B., assignor.)
- American Moistening Company. (See Jackson, John W., assignor.)
- American Motor Body Corporation, The. (See Templin, Ellis W., assignor.)
- American Multigraph Company, The. (See Allen, William R., assignor.)
- American Multigraph Company, The. (See Chisholm, Clifton, assignor.)
- American Multigraph Company, The. (See Dietz, Valentin, assignor.)
- American Multigraph Company, The. (See Hult, John A., assignor.)
- American Multigraph Company, The. (See Morse, L. H., and Chisholm, assignors.)
- American Multigraph Company, The. (See Schultz, August L., assignor.)
- American Multigraph Company, The. (See Williams, August F., assignor.)
- American Multigraph Sales Company, The. (See Chisholm, Clifton, assignor.)
- American Multigraph Sales Company, The. (See Hult, John A., assignor.)
- American Narrow Fabric Company. (See Hazelton, Carl J., assignor.)
- American Neon Light Corporation. (See Kayatt, Phillip J., assignor.)
- American Nokol Co. (See Frenier, Albert B., assignor.)
- American Nuplax Corporation. (See Homberg, F., and Landecker, assignors.)
- American Nuplax Corporation. (See Landecker, Max, assignor.)
- American Optical Company. (See Baker, Nelson M., assignor.)
- American Optical Company. (See Boutelle, William H., assignor.)
- American Optical Company. (See Cozzens, Charles O., assignor.)
- American Optical Company. (See Currier, B. P., and King, assignors.)
- American Optical Company. (See Desmond, Daniel, assignor.)
- American Optical Company. (See De Zeng, Henry L., assignor.)
- American Optical Company. (See Favre, George C., assignor.)
- American Optical Company. (See Glancy, Anna E., assignor.)
- American Optical Company. (See Hill, Harry W., assignor.)
- American Optical Company. (See Hill, H. W., and Wheeler, assignors.)
- American Optical Company. (See King, Walter G., assignor.)
- American Optical Company. (See Kirk, Edward B., assignor.)
- American Optical Company. (See Ljunglof, George L., assignor.)
- American Optical Company. (See Maynard, Albert E., assignor.)
- American Optical Company. (See Maynard, A. E., and Gunning, assignors.)
- American Optical Company. (See Poeton, Lawrence, assignor.)
- American Optical Company. (See Pratt, Arthur J., assignor.)
- American Optical Company. (See Sangren, Harry A., assignor.)
- American Optical Company. (See Simonds, Royal H., assignor.)
- American Optical Company. (See Styll, Harry H., assignor.)
- American Optical Company. (See Tillyer, Edgar D., assignor.)
- American Optical Company. (See Tillyer, E. D., and Godfrey, assignors.)
- American Optical Company. (See Tully, George L., assignor.)
- American Optical Company. (See Tully, G. L., and Baker, assignors.)
- American Optical Company. (See Wrighton, William J., assignor.)
- American Ore Reclamation Company. (See Shallock, Edward W., assignor.)
- American Perfumers' Laboratories, Inc. (See Miller, Felix B., assignor.)
- American Phototure Company. (See Pifer, George N., assignor.)
- American Piano Company. (See Edmands, Bradford C., assignor.)
- American Piano Company. (See Stoddard, Charles F., assignor.)
- American Pneumatic Service Company. (See Van Steensburg, Leo E., assignor.)
- American Potash & Chemical Corporation. (See Burke, W. E., and de Ropp, assignors.)
- American Potash & Chemical Corporation. (See Gale, W. A., and Ritchie, assignors.)
- American Potash & Chemical Corporation. (See Ritchie, C. F., and Gale, assignors.)
- American Pressed Steel Company. (See Emmons, Albert F., assignor.)
- American Printing Company. (See Hadley, Walter C., assignor.)
- American Protein Corporation. (See Wescott, William B., assignor.)
- American Provident Corporation. (See De Forest, Charles, assignor.)
- American Pulley Company, The. (See Bowen, Russell H., assignor.)
- American Pulley Company, The. (See Tomlinson, Ira D., assignor.)
- American Radiator Company. (See Bliss, Sherwood C., assignor.)
- American Radiator Company. (See Brabbée, Charles W., assignor.)
- American Radiator Company. (See Courtot, Louis, assignor.)
- American Radiator Company. (See Eggleston, Lewis W., assignor.)
- American Radiator Company. (See Howell, Frank B., assignor.)
- American Radiator Company. (See Mallory, Harry C., assignor.)
- American Radiator Company. (See McConnell, Herbert E., assignor.)
- American Radiator Company. (See Mertzanoff, André M., assignor.)
- American Radiator Company. (See Redpath, R. L., and Bliss, assignors.)
- American Radiator Company. (See Sterne, Willard F., assignor.)
- American Reenforced Paper Company. (See Gibbs, George E., assignor.)
- American Research and Development Company. (See English, G. F., and Becker, assignors.)
- American Road Machinery Company. (See Abbe, George C., assignor.)
- American Road Machinery Company. (See Bising, James M., assignor.)
- American Road Machinery Company. (See Pellette, Robert S., assignor.)
- American Road Machinery Company. (See Philips, Earle S., assignor.)
- American Roll Screen Company. (See O'Connor, David, assignor.)
- American Rolling Mill Company, The. (See Beck, W. J., and Aupperle, assignors.)
- American Rolling Mill Company, The. (See Cushman, Allerton S., assignor.)
- American Rolling Mill Company, The. (See Finkbone, Benjamin P., assignor.)
- American Rolling Mill Company, The. (See Murphy, A. F., and Jones, assignors.)
- American Rolling Mill Company, The. (See Naugle, H. M., and Townsend, assignors.)
- American Rolling Mill Company, The. (See Rectanus, S. R., and Kronborg, assignors.)
- American Rolling Mill Company, The, et al. (See Tebyrica, Mario W., assignor.)
- American Rolling Mill Company, The. (See Townsend, Arthur J., assignor.)
- American Rolling Mill Company, The. (See Tytus, John B., assignor.)
- American Rolling Mill Company, The. (See Wehr, E. R., and Mahlie, assignors.)
- American Rolling Mill Company, The. (See Wehr, E. R., Mahlie, and Cain, assignors.)
- American Rolling Mill Company, The. (See Wright, W. L., and Warner, assignors.)
- American Rubber Company. (See Dennison, Charles H., assignor.)
- American Rubber Company. (See Hopkinson, E., and Teague, assignors.)
- American Safety Device Co. (See Davidson, Frederic A., assignor.)
- American Safety Device Company. (See Johnston, Frank B., assignor.)
- American Safety Device Co. (See Pitou, Eugene, assignor.)
- American Safety Razor Corporation. (See Behrman, Marcus B., assignor.)
- American Safety Razor Corporation. (See Behrman, M. B., and Pollock, assignors.)
- American Safety Razor Corporation. (See de Mesquita, Julius B., assignor.)
- American Safety Razor Corporation. (See Zeller, Isaiah N., assignor.)
- American Sales Book Company. (See Birdsall, Wilbert S., assignor.)
- American Sales Book Company. (See Bottle, Edward K., assignor.)
- American Sales Book Company. (See Bottle, E. K., and Anderson, assignors.)
- American Sales Book Company. (See Greig, Walter, assignor.)
- American Sales Book Company. (See Hagemann, Louis F., assignor.)
- American Sales Book Company. (See Hagemann, L. F., and Greig, assignors.)
- American Sales Book Company. (See Johnston, Clarence L., assignor.)
- American Sales Book Company. (See Phillips, Arthur H., assignor.)
- American Sales Book Company. (See Pringle, William A., assignor.)
- American Sales Book Company. (See Wiswall, William J., assignor.)

- American Seating Company. (See Chapman, Edward W., assignor.)  
 American Seating Company. (See Hamilton, George H., assignor.)  
 American Seating Company. (See Hamilton, G. H., and White, assignors.)  
 American Seating Company. (See Nuberg, Matthys, assignor.)  
 American Seating Company. (See White, Roy A., assignor.)  
 American Separator Company. (See Collins, Thomas, jr., assignor.)  
 American Shale Reduction Company. (See Postel, Carl, assignor.)  
 American Sheet and Tin Plate Company. (See Inglefield, C. L., and Giles, assignors.)  
 American Sheet and Tin Plate Company. (See Lorig, E. T., and McArthur, assignors.)  
 American Sheet and Tin Plate Company. (See McArthur, Arthur R., assignor.)  
 American Sheet and Tin Plate Company. (See McArthur, A. R., and Moore, assignors.)  
 American Sheet and Tin Plate Company. (See Moore, Carl E., assignor.)  
 American Sheet and Tin Plate Company. (See Mowl, George M., assignor.)  
 American Sheet and Tin Plate Company. (See Weichsel, William C., assignor.)  
 American Sheet and Tin Plate Company. (See Zimmerman, Rufus E., assignor.)  
 American Shipbuilding Company, The. (See Bodenlos, Robert I., assignor.)  
 American Shoe Machinery and Tool Company. (See Krag, Harry W., assignor.)  
 American Signs Corporation. (See Schaefer, Frank, assignor.)  
 American Slicing Machine Company. (See Campbell, William J., assignor.)  
 American Slicing Machine Company. (See Wolff, Wallace B., assignor.)  
 American Smelting & Refining Company. (See de Saulles, Charles A. N., assignor.)  
 American Smelting and Refining Company. (See Gonser, B. W., and Haffey, assignors.)  
 American Smelting and Refining Company. (See Hills, Franklin G., assignor.)  
 American Smelting and Refining Company. (See MacKenzie, J. D., and Senger, assignors.)  
 American Smelting and Refining Company. (See MacMichael, Hugh R., assignor.)  
 American Smelting and Refining Company. (See Moore, Ralph S., assignor.)  
 American Smelting and Refining Company. (See Slagle, E. A., and O'Harra, assignors.)  
 American Smelting and Refining Company. (See Teats, Roscoe, assignor.)  
 American Smelting and Refining Company. (See Wagstaff, Richard A., assignor.)  
 American Smelting and Refining Company. (See York, Herbert W., assignor.)  
 American Solvent Recovery Corporation. (See Barnebey, Oscar L., assignor.)  
 American Stamping Company. (See Ordway, D. P., and Hanlon, assignors.)  
 American Standard Watch Case Company. (See Schwarz, Rudolph J., assignor.)  
 American Stay Company. (See Merrick, Frank W., assignor.)  
 American Steam Pump Company. (See Barton, Ben D., assignor.)  
 American Steam Pump Company. (See Yates, De Witt E., assignor.)  
 American Steel Foundries. (See Austin, George H., assignors.)  
 American Steel Foundries. (See Hamilton, W. C., and Sims, assignors.)  
 American Steel Foundries. (See Lamont, John A., assignor.)  
 American Steel Foundries. (See Withall, Arthur, assignor.)  
 American Steel Products Co. (See Harvey, William D., assignor.)  
 American Steel Products Co. (See Landgraf, Jacob T., assignor.)  
 American Steel Products Co. (See Tolley, Donald B., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Brown, Edwin F., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Brown, Robert E., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Coons, Perry T., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Farr, Virgil H., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Febrey, Harold H., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Hoeffmann, Alexander O., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Howe, James E., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Jepsen, Peter, assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Kuhn, William C., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Morrison, James J., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Munford, Walter F., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Shove, Edward H., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Tangring, Olof, assignor.)  
 American Stove Company. (See Boekenkamp, Edward, assignor.)  
 American Stove Company. (See Brodbeck, Almer H., assignor.)  
 American Stove Company. (See Moecker, Arnold H., assignor.)  
 American Stove Company. (See Moecker, H., jr., and Hammermeister, assignors.)  
 American Stove Company. (See Moecker, H., jr., Thompson, and Hammermeister, assignors.)  
 American Stove Company. (See Possons, Minard A., assignor.)  
 American Stove Company. (See Stockstrom, Arthur, assignor.)  
 American Stove Company. (See Stockstrom, A., and Brodbeck, assignors.)  
 American Stove Company. (See Stockstrom, A., and Brumbaugh, assignors.)  
 American Switch Point Protector and Railroad Equipment Company, The. (See Kilburn, Isaac J., assignor.)  
 American Tarso Company. (See Terlinden, Richard W., assignor.)  
 American Telephone and Telegraph Company. (See Abbott, Henry H., assignor.)  
 American Telephone and Telegraph Company. (See Abbott, H. H., and Kuhn, assignors.)  
 American Telephone and Telegraph Company. (See Abraham, Leonard G., assignor.)  
 American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)  
 American Telephone and Telegraph Company. (See Affel, H. A., Hamilton, Thorp, and Clapp, assignors.)  
 American Telephone and Telegraph Company. (See Almquist, Milton L., assignor.)  
 American Telephone and Telegraph Company. (See Bailey, Rand S., assignor.)  
 American Telephone and Telegraph Company. (See Bailey, R. S., and Eagon, assignors.)  
 American Telephone and Telegraph Company. (See Bascom, Henry M., assignor.)  
 American Telephone and Telegraph Company. (See Blackwell, O. B., and Strieby, assignors.)  
 American Telephone and Telegraph Company. (See Bostwick, Lee G., assignor.)  
 American Telephone and Telegraph Company. (See Bown, Ralph, assignor.)  
 American Telephone and Telegraph Company. (See Branson, David E., assignor.)  
 American Telephone and Telegraph Company. (See Campbell, George A., assignor.)  
 American Telephone and Telegraph Company. (See Carpe, Allen, assignor.)  
 American Telephone and Telegraph Company. (See Carson, John R., assignor.)  
 American Telephone and Telegraph Company. (See Channell, James W., assignor.)  
 American Telephone and Telegraph Company. (See Chapman, Arthur G., assignor.)  
 American Telephone and Telegraph Company. (See Christopher, Harry J., assignor.)  
 American Telephone and Telegraph Company. (See Clapp, Robert H., assignor.)  
 American Telephone and Telegraph Company. (See Clark, A. B., and Crisson, assignors.)  
 American Telephone and Telegraph Company. (See Clark, A. B., and Mertz, assignors.)  
 American Telephone and Telegraph Company. (See Crisson, George, assignor.)  
 American Telephone and Telegraph Company. (See Davidson, J., jr., and Phelps, assignors.)  
 American Telephone and Telegraph Company. (See Dearnford, Ralph W., assignor.)  
 American Telephone and Telegraph Company. (See Demarest, C. S., and Ohl, assignors.)  
 American Telephone and Telegraph Company. (See Dietze, Eginhard, assignor.)  
 American Telephone and Telegraph Company. (See Edwards, Paul G., assignor.)  
 American Telephone and Telegraph Company. (See Edwards, P. G., and Herrington, assignors.)  
 American Telephone and Telegraph Company. (See Edwards, William H., assignor.)  
 American Telephone and Telegraph Company. (See Ehrlich, Jefferson, assignor.)  
 American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)  
 American Telephone and Telegraph Company. (See Espenschied, L., and Gillett, assignors.)  
 American Telephone and Telegraph Company. (See Espenschied, L., and Martin, assignors.)  
 American Telephone and Telegraph Company. (See Eyster, James A., assignor.)  
 American Telephone and Telegraph Company. (See Fetter, Charles H., assignor.)  
 American Telephone and Telegraph Company. (See French, Norman R., assignor.)



- American Telephone and Telegraph Company. (See Gannett, Danforth K., assignor.)  
 American Telephone and Telegraph Company. (See Gardner, Fred G., assignor.)  
 American Telephone and Telegraph Company. (See Gary, L. A., and Tasker, assignors.)  
 American Telephone and Telegraph Company. (See Giddis, George F., assignor.)  
 American Telephone and Telegraph Company. (See Gordon, Chester S., assignor.)  
 American Telephone and Telegraph Company. (See Gordon, George B., assignor.)  
 American Telephone and Telegraph Company. (See Green, Estill I., assignor.)  
 American Telephone and Telegraph Company. (See Green, I. W., and Inglis, assignors.)  
 American Telephone and Telegraph Company. (See Green, Irving W., assignor.)  
 American Telephone and Telegraph Company. (See Guenther, Raymond, assignor.)  
 American Telephone and Telegraph Company. (See Haines, William T., assignor.)  
 American Telephone and Telegraph Company. (See Hansen, Arnold A., assignor.)  
 American Telephone and Telegraph Company. (See Hanson, O. B., Crisson, and McKown, assignors.)  
 American Telephone and Telegraph Company. (See Harper, Augustus E., assignor.)  
 American Telephone and Telegraph Company. (See Henneberger, Thomas C., assignor.)  
 American Telephone and Telegraph Company. (See Herman, Joseph, assignor.)  
 American Telephone and Telegraph Company. (See Herman, J., and Wright, assignors.)  
 American Telephone and Telegraph Company. (See Holden, William H. T., assignors.)  
 American Telephone and Telegraph Company. (See Hoyt, Ray S., assignor.)  
 American Telephone and Telegraph Company. (See Inglis, A. H., and Bostwick, assignors.)  
 American Telephone and Telegraph Company. (See Inglis, A. H., and Guenther, assignors.)  
 American Telephone and Telegraph Company. (See Johnson, Benjamin, assignor.)  
 American Telephone and Telegraph Company. (See Klein, C. H., and St. John, assignors.)  
 American Telephone and Telegraph Company. (See Lader, Henry, assignor.)  
 American Telephone and Telegraph Company. (See Levy, Lucien, assignor.)  
 American Telephone and Telegraph Company. (See Lewis, Benjamin F., assignor.)  
 American Telephone and Telegraph Company. (See Martin, De Loss K., assignor.)  
 American Telephone and Telegraph Company. (See Martin, W. H., and Strieby, assignors.)  
 American Telephone and Telegraph Company. (See Mertz, Pierre, assignor.)  
 American Telephone and Telegraph Company. (See Mitchell, Doren, assignor.)  
 American Telephone and Telegraph Company. (See Mitchell, D., and Silent, assignors.)  
 American Telephone and Telegraph Company. (See Morehouse, L. F., and Watson, assignors.)  
 American Telephone and Telegraph Company. (See Morris, Robert W., assignor.)  
 American Telephone and Telegraph Company. (See Morris, R. W., and Nelson, assignors.)  
 American Telephone and Telegraph Company. (See Nelson, Stanley F., assignor.)  
 American Telephone and Telegraph Company. (See Niles, E. W., and Edwards, assignors.)  
 American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)  
 American Telephone and Telegraph Company. (See Nyquist, H., and Mertz, assignors.)  
 American Telephone and Telegraph Company. (See Nyquist, H., and Pfeiffer, assignors.)  
 American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)  
 American Telephone and Telegraph Company. (See O'Leary, Joseph T., assignor.)  
 American Telephone and Telegraph Company. (See Overton, Warner L., assignor.)  
 American Telephone and Telegraph Company. (See Parker, Ralzemond D., assignor.)  
 American Telephone and Telegraph Company. (See Parker, R. D., and Overton, assignors.)  
 American Telephone and Telegraph Company. (See Pero, Sallie E., assignor.)  
 American Telephone and Telegraph Company. (See Perry, Donald B., assignor.)  
 American Telephone and Telegraph Company. (See Pike, V. B., and St. John, assignors.)  
 American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)  
 American Telephone and Telegraph Company. (See Povlsen, P. K., and St. John, assignors.)  
 American Telephone and Telegraph Company. (See Roberts, Leland C., assignor.)  
 American Telephone and Telegraph Company. (See St. John, Everett, assignor.)  
 American Telephone and Telegraph Company. (See Schramm, Fred W., assignor.)  
 American Telephone and Telegraph Company. (See Shackleton, Samuel P., assignor.)  
 American Telephone and Telegraph Company. (See Shanck, Roy B., assignor.)  
 American Telephone and Telegraph Company. (See Shaw, Thomas, assignor.)  
 American Telephone and Telegraph Company. (See Shetzline, Roy A., assignor.)  
 American Telephone and Telegraph Company. (See Silent, Harold C., assignor.)  
 American Telephone and Telegraph Company. (See Stokes, Howard G., assignor.)  
 American Telephone and Telegraph Company. (See Stone, John S., assignor.)  
 American Telephone and Telegraph Company. (See Stover, Herbert F., assignor.)  
 American Telephone and Telegraph Company. (See Sturdy, William W., assignor.)  
 American Telephone and Telegraph Company. (See Swezey, Burdette S., assignor.)  
 American Telephone and Telegraph Company. (See Taplin, C. V., assignor, Allen, and Bertels.)  
 American Telephone and Telegraph Company. (See Taylor, Edmund R., assignor.)  
 American Telephone and Telegraph Company. (See Thompson, Elmer O., assignor.)  
 American Telephone and Telegraph Company. (See Thorp, Vaughn P., assignor.)  
 American Telephone and Telegraph Company. (See Toomey, J. F., and Phelps, assignors.)  
 American Telephone and Telegraph Company. (See Vernam, Gilbert S., assignor.)  
 American Telephone and Telegraph Company. (See Watson, Edward F., assignor.)  
 American Telephone and Telegraph Company. (See Watson, E. F., and Swezey, assignors.)  
 American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)  
 American Telephone and Telegraph Company. (See Weaver, A., and Chase, assignors.)  
 American Telephone and Telegraph Company. (See Weaver, A., and McMurry, assignors.)  
 American Telephone and Telegraph Company. (See Wilson, Leon T., assignor.)  
 American Telephone and Telegraph Company. (See Wright, John W., assignor.)  
 American Telephone and Telegraph Company. (See Wright, Sumner B., assignor.)  
 American Telephone and Telegraph Company. (See Zobel, Otto J., assignor.)  
 American Textile Company. (See Ball, Ben A., assignor.)  
 American Thermometer Company. (See Weisenfels, Charles W., assignor.)  
 American Thermos Bottle Company, The. (See Fink, C. G., and Beers, assignors.)  
 American Thermos Bottle Company. (See Wetmore, Miner P., assignor.)  
 American Throttle Company. (See McKee, Neal T., assignor.)  
 American Throttle Company. (See Pippy, George F., assignor.)  
 American Throttle Company Inc. (See Smith, Bert, assignor.)  
 American Ticket Scale Company, The. (See Slezak, Vincent F., assignor.)  
 American Tissue Mills. (See Sinclair, Homer M., assignor.)  
 American Tool Works Company, The. (See Baerbalck, Hans, assignor.)  
 American Tool Works Company, The. (See Robinson, Albert E., assignor.)  
 American Tool Works Company, The. (See Schatz, H. W., and Ratliff, assignors.)  
 American Tool Works Company, The. (See Schellenbach, William L., assignor.)  
 American Tool Works Company, The. (See Sosa, A. M., and Baerbalck, assignors.)  
 American Tool Works Company, The. (See Sosa, A. M., and Hoelscher, assignors.)  
 American Tractor Equipment Company. (See McMillan, Wesley K., assignor.)  
 American Transom Co., The. (See Willis, Charles M., assignor.)  
 American Twist Drill and Tool Company. (See Rausch, Albert, assignor.)  
 American Type Founders Company. (See Kelly, William M., assignor.)  
 American Voith Contact Company. (See Priem, Paul, assignor.)  
 American Voith Contact Company. (See Rabus, Wilhelm, assignor.)  
 American Water Corporation. (See Sperry, John B., assignor.)  
 American Welding and Manufacturing Company, The. (See Klaus, Fred R., assignor.)  
 American Welding and Manufacturing Company, The. (See Klaus, F. R., and Meyer, assignors.)  
 American Well and Prospecting Company. (See Johnston, Horace G., assignor.)  
 American Well Works, The. (See Thompson, Isaac T., assignor.)  
 American Window Company. (See Lewis, Claude A., assignor.)  
 American Wiremold Co., The. (See Frederickson, Otto A., assignor.)



- American Wringer Company. (See Keltie, George R., assignor.)
- American Wringer Company. (See Root, Marshall J., assignor.)
- American Yvette Company. (See Oppenheim, David, assignor.)
- Ames, Butler, Lowell, Mass. Light. 1,701,653; Feb. 12.
- Ames, Butler, Lowell, Mass. Fountain comb. 1,704,959; Mar. 12.
- Ames, Butler, Lowell, Mass. Motor. 1,737,820; Dec. 3.
- Ames, Cortlandt F., jr., Mount Vernon, N. Y., and C. W. Mortimer, Upper Montclair, N. J., assignors to The Barrett Company. Shingle. 1,730,347; Oct. 8.
- Ames, Edgar. (See Esmond, William G., assignor.)
- Ames, Elmer U., Collingswood, N. J. Knitting machine. 1,697,488; Jan. 1.
- Ames, Elmer U., Collingswood, N. J. Knitting machine. 1,697,489; Jan. 1.
- Ames, Elmer U., Collingswood, N. J. Knitting machine. 1,697,490; Jan. 1.
- Ames, Elmer U., deceased, Collingswood, N. J.; Camden Safe Deposit & Trust Co., executor. Knitting machine. 1,722,989; Aug. 6.
- Ames, Elmer U., deceased, Collingswood, N. J.; Camden Safe Deposit and Trust Co., executor. Multiple-hand-needle-holding device for knitting machines. 1,726,255; Aug. 27.
- Ames, Ezra F., Portland, Oreg. Safe-deposit box. 1,704,645; Mar. 5.
- Ames, Joseph H. (See Keller, J. M., and Ames.)
- Ames, Lewis G., assignor to Richardson Corporation, Rochester, N. Y. Beverage dispenser. 1,733,111; Oct. 29.
- Ames, Lewis G., and A. W. Cartwright, assignors to Richardson Corporation, Rochester, N. Y. Beverage dispenser. 1,726,135; Aug. 27.
- Ames, Millard R. (See Zohe, Ludwig A., assignor.)
- Ames Shovel & Tool Company. (See Yarnall, Vere S., assignor.)
- Amez-Droz, Yvan, assignor to Parfumerie Houbigant, Paris, France. Display device for exhibiting jewelry, toilet articles, perfumery, and the like. 1,732,214; Oct. 22.
- Amidon, Fannie C., executrix. (See Amidon, William S.)
- Amidon, William S., deceased, by F. C. Amidon executrix, Joliet, Ill. Dough divider. 1,727,091; Sept. 3.
- Amiesite Asphalt Company of America. (See Mullen, Charles A., assignor.)
- Amiesite Asphalt Company of America. (See Sadtler, Samuel S., assignor.)
- Amiesite Foundation Company. (See Sadtler, Samuel S., assignor.)
- Amis, Maurice B. (See Link, L., and Amls.)
- Amitin, Alexander. (See Appleman, Charles H., assignor.)
- Amitin, Alexander. (See Marshak, Isidore, assignor.)
- Ammon, Charles D., Lincoln, Nebr. Hammer mill. 1,713,507; May 21.
- Ammon, Edward R., Reading, Pa. Form for inspecting stockings. 1,699,265; Jan. 15.
- Ammon, Edward R., Reading, Pa. Hosiery-inspecting device. 1,727,498; Sept. 10.
- Ammon, Edward R., Reading, Pa. Expansible form for inspecting stockings. 1,727,499; Sept. 10.
- Amon, Josef. (See Samuels, M. M., and Amon.)
- Amory, Robert, Milton, Mass., assignor, by mesne assignments, to The Lamson Company, Syracuse, N. Y. Spacing mechanism for conveyor systems. 1,741,752; Dec. 31.
- Amos, Hazel D., Sargent, Nebr. Curtain stretcher. 1,707,703; Apr. 2.
- Amos, Herman, Philadelphia, Pa. Hoisting hook. 1,725,609; Aug. 20.
- Amos, John A., assignor to The Pyle-National Company, Chicago, Ill. Classification lamp. 1,699,322; Jan. 15.
- Amoskeag Manufacturing Company. (See Baker, Archie G., assignor.)
- Amoskeag Manufacturing Company. (See Twaddle, William F., assignor.)
- Amrein, Joseph, Brooklyn, N. Y. Outrigger scaffold. 1,736,817; Nov. 26.
- Ams, Max, Chemical Engineering Corporation, The. (See Brenzinger, Julius, assignor.)
- Ams, Max, Machine Company, The. (See Brenzinger, Julius, assignor.)
- Amsco Products, Inc. (See Hardy, Charles, assignor.)
- Amsco Products Inc. (See Jones, L. L., and Hardy, assignors.)
- Amsden & Barnard, Inc. (See Amsden, Eugene C., assignor.)
- Amsden, Eugene C., assignor to Amsden & Barnard, Inc., Boston, Mass. Combination school desk and seat standard. 1,734,105; Nov. 5.
- Amsden, Eugene C., assignor to Amsden & Barnard, Inc., Boston, Mass. Making standards. 1,734,889; Nov. 5.
- Amsden, Eugene C., assignor to Amsden & Barnard, Inc., Boston, Mass. Closure for dispensing containers. 1,738,220; Dec. 3.
- Amsler, Jacob. (See Sterbenz, A., and Amsler.)
- Amsler, Jacob, Los Angeles, Calif. Vehicle direction indicator. 1,731,964; Oct. 15.
- Amsler, Walter O., Toledo, Ohio, assignor to Hartford-Empire Company, Hartford, Conn. Recuperator and tile structure therefor. 1,721,938; July 23.
- Amstutz, N. S. (See Peiffer, W. D., and Harris, assignors.)
- Amundsen, Ivar. (See Ehrler, A., and Amundsen.)
- Amundsen, Ivar, Oslo, and E. Stephansen, Slemdal, near Oslo, Norway; said Stephansen assignor to said Amundsen. Refrigeration plant of the intermittent absorption type. 1,707,892; Apr. 2.
- Amy, Wilbert L. (See Dickson, J. B., and Amy.)
- Anaconda Copper Mining Company. (See Laist, Alex, assignor.)
- Anaconda Sales Company. (See Gillis, Julius H., assignor.)
- Anaconda Sales Company. (See Kirschbraun, Lester, assignor.)
- Anaconda Sales Company. (See Rahr, C. E., and Drake, assignors.)
- Anaconda Wire and Cable Company. (See Bryant, Henry E., assignor.)
- Anchondo, Juan E., Tucson, Ariz. Igniting tip for cigars and cigarettes. 1,719,794; July 2.
- Anchor Cap & Closure Corporation. (See Jaeger, Max, assignor.)
- Anchor Cap and Closure Corporation. (See Mullen, George W., assignor.)
- Anchor Cap & Closure Corporation. (See Podel, Abraham, assignor.)
- Anchor Post Fence Company. (See Heyman, Benjamin, assignor.)
- Anchor Post Fence Company. (See Pivonski, S., and Canitz, assignors.)
- Anciens Etablissements Barbier, Benard et Turenne. (See Bénard, Henri L. M. J., assignor.)
- Anciens Etablissements Siegel & Stockman Reunis Societe Anonyme. (See Vigneau, André, assignor.)
- Anclair, Gonzalo, Houston, Tex. Safety lock. 1,735,843; Nov. 19.
- Andel, Frank J., Cleveland, Ohio. Wheel remover. 1,704,160; Mar. 5.
- Andel, Frank J., Cleveland, Ohio. Wheel remover. 1,726,523; Sept. 3.
- Andel, Frank J., Cleveland, Ohio. Automobile heater. 1,726,531; Sept. 3.
- Andel, Frank J., and E. G. Gaus, Cleveland, Ohio. Traffic signal detector. 1,731,284; Oct. 15.
- Anderberg, Anders and E. A., Malmö, Sweden. Control valve for compressed-air brakes. 1,701,905; Feb. 12.
- Anderberg, Anders and E. A., Malmö, assignors to Carl Holmberg's Mekaniska Verkstads Aktiebolag, Lund, Sweden. Compressed-air brake. 1,712,016; May 7.
- Anderberg, Anders and E. A., Malmö, assignors to Carl Holmberg's Mekaniska Verkstads Aktiebolag, Lund, Sweden. Fluid-pressure brake system. 1,715,810; June 4.
- Anderberg, Erik A. (See Anderberg, Anders and E. A.)
- Anderegg, Joseph C., Algoma, Wis. Mop. 1,698,148; Jan. 8.
- Anderegg, Joseph C., Algoma, Wis. Fastener. 1,702,426; Feb. 19.
- Anderhub, Walter, Zurich, Switzerland. Turbine aggregate comprising an ahead turbine and an astern turbine. 1,719,355; July 2.
- Andersen, Anders E. (See Pedersen, Florian B., assignor.)
- Andersen, Axel C., and A. Schie, Borregaard, near Sarpsborg, Norway. Method and apparatus for removing knots from mechanical and chemical wood pulp. 1,718,399; June 25.
- Andersen, Everett V., Tyler, Minn. Device for curing ingrown toenails. 1,708,716; Apr. 9.
- Andersen, Everett V., Tyler, Minn. Key case. 1,739,814; Dec. 17.
- Andersen, Fred C., Bayport, Minn. Window and door frame. 1,708,599; Apr. 9.
- Andersen, Fred C., R. L. Nash, and N. T. Roland, assignors to Andersen Lumber Company, Bayport, Minn. Window frame. 1,735,559; Nov. 12.
- Andersen, Johan M., Brookline, assignor to Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Circuit breaker. 1,721,584; July 23.
- Andersen Lumber Company. (See Andersen, F. C., Nash, and Roland, assignors.)
- Andersen Lumber Company. (See Bird, Clarence P., assignor.)
- Andersen Lumber Company. (See Erickson, John E., assignor.)
- Andersen Lumber Company. (See Solheim, Marcus O., assignor.)
- Andersen, Niels K., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current electromagnet. 1,710,761; Apr. 30.
- Andersen, Oscar W., Oak Park, assignor to Pettibone Mulliken Company, Chicago, Ill. Railway switch. 1,710,335; Apr. 23.
- Andersen, Oscar W., Oak Park, assignor to Pettibone Mulliken Company, Chicago, Ill. Railway switch. 1,710,336; Apr. 23.
- Andersen, Oscar W., Oak Park, Ill., assignor to Pettibone Mulliken Company. Dipper front. 1,717,907; June 18.
- Andersen, Oscar W., Oak Park, Ill., assignor to Pettibone Mulliken Company. Chain-equipped structure. 1,721,939; July 23.
- Andersen, Oscar W., Oak Park, Ill., assignor to Pettibone Mulliken Company. Dredge and the like. 1,731,833; Oct. 15.
- Andersen, Peter, Racine, Wis. Hammer. 1,713,810; May 21.
- Andersen, Wilhelm A., Jacmel, Haiti. Station indicator. 1,714,341; May 21.



- Anderson, Alban W., Bloomington, Ill. Rotary gas-valve case. 1,713,318; May 14.
- Anderson, Albert & J. M., Manufacturing Company. (See Andersen, Johan M., assignor.)
- Anderson, Albert H., and G. L. Waters, Detroit, Mich. Hospital-bed attachment. 1,711,007; Apr. 30.
- Anderson, Alexander C. (See Bourke, R. L., and Anderson.)
- Anderson, Alexander P., Red Wing, Minn., assignor to Anderson Puffed Rice Company, Chicago, Ill. Puffing. 1,725,171; Aug. 20.
- Anderson, Allen, Chicago, Ill., assignor to White Beauty Electric Company, Inc. Electric heating radiator. 1,709,052; Apr. 16.
- Anderson, Andrew, Sacramento, Calif. Crock cover. 1,717,538; June 18.
- Anderson, Andrew G., Wollaston, Mass., assignor, by mesne assignments, to Carr Fastener Company. Separable-fastener installation. 1,720,408; July 9.
- Anderson, Anna K., New York, N. Y. Window-screen clamp. 1,702,395; Feb. 19.
- Anderson, Anton E., et al. (See Maiuri, G., and Moraschi, assignors.)
- Anderson, Arthur, Newton Center, and F. W. A. Henrici, Boston, Mass. Latch. 1,734,708; Nov. 5.
- Anderson, Arthur N., Crafton, Pa. Instrument for measuring electric currents. 1,729,320; Sept. 24.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Control system. 1,698,291; Jan. 8.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,701,351; Feb. 5.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,711,106; Apr. 30.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,713,209; May 14.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,725,692; Aug. 20.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic switching system. 1,731,917; Oct. 15.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,731,965; Oct. 15.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,731,966; Oct. 15.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,732,296; Oct. 22.
- Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,733,853; Oct. 29.
- Anderson, Arvid E., and H. Bany, Scotia, N. Y., assignors to General Electric Company. Automatic switching system. 1,731,918; Oct. 15.
- Anderson, Arvid E., assignor to Alrubber Corporation, Chicago, Ill. Swimming device. 1,713,733; May 21.
- Anderson, Arvid E., Chicago, Ill., assignor, by mesne assignments, to New York Rubber Corporation, New York, N. Y. Pneumatic cushion. 1,726,939; Sept. 3.
- Anderson, Arvid E., Lansdowne, Pa., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,718,516; June 25.
- Anderson, Arvid E., Lansdowne, Pa., assignor to General Electric Company. Control system. 1,738,344; Dec. 3.
- Anderson, Axel G., Jamestown, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Radiocabinet. Des. 78,556; May 21.
- Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
- Anderson, Bernhard, Chicago, Ill. File. 1,727,853; Sept. 10.
- Anderson, Bert J., Harvey, Ill., assignor to And-Way Stamping Company, Hammond, Ind. Wheel for juvenile vehicles. 1,716,750; June 11.
- Anderson Box Company. (See Bomberger, George E., assignor.)
- Anderson Box Company. (See Cleveland, Minot, assignor.)
- Anderson Bros. Mfg. Co. (See Anderson, Swan F., assignor.)
- Anderson, Burt J., Newfane, N. Y. Attachment for plows. 1,727,154; Sept. 3.
- Anderson, C. Edward, et al. (See Kellogg, Alfred E., assignor.)
- Anderson, Calvert E., Rockport, Ind. Harrow. 1,717,539; June 18.
- Anderson, Carl E., East Orange, N. J., assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Display rack. 1,712,192; May 7.
- Anderson, Carl E., Newark, N. J., assignor to Eastern Tool & Mfg. Company, Bloomfield, N. J. Kitchen tool. 1,730,444; Oct. 8.
- Anderson, Carl E., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Retainer for nuts. 1,742,052; Dec. 31.
- Anderson, Carl F., Brookfield, and R. W. Janda, assignors to Conlon Corporation, Cicero, Ill. Clutch. 1,711,338; Apr. 30.
- Anderson, Carl G., Boston, Mass., assignor of three-eighths to M. M. Horgan and five-eighths to G. N. Sanborn, Manchester, N. H. Thermostatic plug control for electric irons, etc. 1,703,711; Feb. 26.
- Anderson, Carl J., assignor of fifty-one and two-thirds per cent to E. Borg and fifteen per cent to C. U. Johanson, Chicago, Ill. Abrading tool. 1,721,266; July 16.
- Anderson, Carl J., assignor of fifty-one and two-thirds per cent to E. Borg and fifteen per cent to C. U. Johanson, Chicago, Ill. Cutter. 1,735,310; Nov. 12.
- Anderson, Carl J., assignor of fifty-one and two-thirds per cent to E. Borg and fifteen per cent to C. U. Johanson, Chicago, Ill. Cutter. 1,735,594; Nov. 12.
- Anderson, Carl R., assignor to The Griswold Manufacturing Company, Erie, Pa. Damper. 1,697,100; Jan. 1.
- Anderson, Carl V. (See Pearson, O. R., and Anderson.)
- Anderson, Carlisle N., assignor to Parke, Davis & Company, Detroit, Mich. Medicinal compound. 1,703,377; Feb. 26.
- Anderson, Carlisle N., assignor to Parke, Davis & Company, Detroit, Mich. Capsule forceps. 1,725,172; Aug. 20.
- Anderson, Carlisle N., assignor to Parke, Davis & Company, Detroit, Mich. Capsule forceps. 1,725,173; Aug. 20.
- Anderson, Charles A., Oakland, Calif. Apparatus for exhausting wells. 1,722,552; July 30.
- Anderson, Charles D., Chicago, Ill. Spark-intensifier terminal. 1,700,211; Jan. 29.
- Anderson, Charles E., Hibbing, Minn. Tie plate. 1,719,822; July 9.
- Anderson, Charles O., Omaha, Nebr. Automatic brake-adjusting mechanism. Re17,344; July 2.
- Anderson, Charles V., Cincinnati, Ohio. Mop. 1,720,025; July 9.
- Anderson, Chester A., Westbrook, Tex. Gauge-line cleaner. 1,703,703; Feb. 26.
- Anderson, Clare. (See Smith, B. H., and Anderson.)
- Anderson, Clyde L., Oakland, Calif. Merchandise cabinet. 1,699,868; Jan. 22.
- Anderson Co., The. (See Smulski, Theodore J., assignor.)
- Anderson, Daniel G., assignor to Barker Bros., Incorporated, Los Angeles, Calif. Extension-leaf table. 1,728,917; Sept. 24.
- Anderson, David E. (See Thomas, Samuel M., assignor.)
- Anderson, David E., St. Paul, Minn. Producing fillers for railroad frogs. 1,740,720; Dec. 24.
- Anderson, David G., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Stripping apparatus. 1,706,724; Mar. 26.
- Anderson, David S., Longwood, Fla. Preparing foliage. 1,714,838; May 28.
- Anderson, David W., Stockwell, Ind. Universal golf club. 1,697,846; Jan. 8.
- Anderson, E. D., Inc. (See Anderson, Ernest D., assignor.)
- Anderson, E. D., Inc. (See Templin, Walter W., assignor.)
- Anderson, Edmund A. (See Peirce, W. M., and Anderson.)
- Anderson, Edward, Dayton, Ohio, assignor, by mesne assignments, to Simonds Worden White Company. Grinding wheel for paper pulp. 1,727,389; Sept. 10.
- Anderson, Edward I., Sheboygan, Wis. Road-map holder. 1,717,954; June 18.
- Anderson, Edward J., and E. J. Hinton, Indianapolis, Ind. Channelet. 1,721,243; July 16.
- Anderson, Edward V., Bellevue, assignor of one-half to C. E. Golden, Crafton, Pa. Reducing valve. 1,724,891; Aug. 20.
- Anderson, Emil, Brooklyn, N. Y. Safety fender for motor vehicles. 1,723,987; Aug. 13.
- Anderson, Emil, Briarcliff Manor, N. Y., assignor of three-fourths to Olson Brothers Saw Manufacturing Company. Frame structure for motor-vehicle license plates. 1,738,273; Dec. 3.
- Anderson, Emil S., assignor of one-fourth to F. E. Trask and one-fourth to W. H. Hartman, Los Angeles, Calif. Signal device. 1,737,631; Dec. 3.
- Anderson, Eric G., Kingsburg, Calif. Signal. 1,717,298; June 11.
- Anderson, Ernest D., New York, N. Y. Comb. 1,699,515; Jan. 22.
- Anderson, Ernest D., assignor to E. D. Anderson, Inc., New York, N. Y. Sealing machine. 1,729,811; Oct. 1.
- Anderson, Ernest K., and G. A. Simmons, Portland, Oreg. Gas burner. 1,702,625; Feb. 19.
- Anderson, Ernest R., Moroni, Utah. Time-controlled safety device for safe locks. 1,698,930; Jan. 15.
- Anderson, Ernst G. K., Evanston, Ill., assignor to Appleton Electric Company. Fastening for threadless pipes. 1,736,145; Nov. 19.
- Anderson, Francis, Wausa, Nebr. Combined sweep and stacker attachment for tractor. 1,709,425; Apr. 16.
- Anderson, Frank B., assignor to The V. D. Anderson Company, Cleveland, Ohio. Tempering apparatus for oil-bearing materials. 1,723,118; Aug. 6.
- Anderson, Frank H., Birmingham, Ala. Statuette. Des. 79,060; July 30.
- Anderson, Frank H., Birmingham, Ala. Chair. Des. 79,320; Sept. 3.
- Anderson, Frank T. (See Anderson, William and F. T.)
- Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Light-therapy appliance. 1,697,449; Jan. 1.
- Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Therapeutic lamp. 1,697,450; Jan. 1.
- Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Fluid-cooling device. 1,705,278; Mar. 12.



- Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Therapeutic lamp. 1,729,239; Sept. 24.
- Anderson, Fritz A., and R. H. Maxson, assignors to The Burdick Corporation, Milton, Wis. Mobile therapeutic lamp unit. 1,729,238; Sept. 24.
- Anderson, George, & Son. (See Sheperd, Louis J., assignor.)
- Anderson, George, and V. A. Gronberg, assignors to Art Metal Construction Company, Jamestown, N. Y. Locking mechanism for drawers. 1,730,909; Oct. 8.
- Anderson, George E., Chicago, Ill. Hydrometer. 1,701,654; Feb. 12.
- Anderson, George F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lip stick. 1,732,875; Oct. 22.
- Anderson, Gilbert L., and R. F. Bullen, assignors to Art Metal Construction Company, Jamestown, N. Y. Guide suspension for drawers and other movable elements. 1,736,108; Nov. 19.
- Anderson, Gustaf E., Brockton, Mass. Demountable rim. 1,716,845; June 11.
- Anderson, Gustav H., assignor to The Hart & Hutchinson Company, New Britain, Conn. Toggle bolt. 1,738,133; Dec. 3.
- Anderson, Gustave H., assignor to The Hart & Hutchinson Company, New Britain, Conn. Adjustable wall post. 1,717,906; June 18.
- Anderson, Harold V., North Olmsted, Ohio. Method and apparatus for casting ingots. 1,702,886; Feb. 19.
- Anderson, Harry F. (See Guyer, Joseph A., assignor.)
- Anderson, Harry F., et al. (See Townsend, Thomas, assignor.)
- Anderson, Harry P. H. (See McCallum, J., and Anderson.)
- Anderson, Helmer, and F. O. Lindgren, Minneapolis, Minn., assignors to Harding Machine Corporation, New York, N. Y. Machine for closing sacks. 1,738,511; Dec. 10.
- Anderson, James B., Shaler Township, Allegheny County, Pa. Blowtorch. 1,721,844; July 23.
- Anderson, James G., Lodi, Calif. Fruit-shipping box. 1,699,130; Jan. 15.
- Anderson, James H. (See Bowers, Colin R., assignor.)
- Anderson, James L., Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Protection of gas lines. 1,726,940; Sept. 3.
- Anderson, James S., Chicago, Ill. Display device. 1,726,605; Sept. 3.
- Anderson, James S., Ames, Nebr. Coffeepot strainer. 1,731,698; Oct. 15.
- Anderson, James W. (See Bottle, E. K., and Anderson.)
- Anderson, James W. (See Sawtell, Richard D., assignor.)
- Anderson, Jesse I., assignor to J. I. Holcomb Mfg. Company, Indianapolis, Ind. Mop. 1,714,291; May 21.
- Anderson, Jesse S., Madison, N. J. Plaque. Des. 77,347; Jan. 1.
- Anderson, John. (See Kreisinger, H., and Anderson.)
- Anderson, John, Portland, Conn. Kettle cover. 1,734,608; Nov. 5.
- Anderson, John, Tulsa, Okla. Device for removing rims from tires. 1,729,861; Oct. 1.
- Anderson, John A., assignor to B. S. Gray, trustee, Geneseo, Ill. Automatic take-up bearing. 1,713,638; May 21.
- Anderson, John C., Keyport, N. J. Frame for drying gelatin, glue, and the like. 1,739,567; Dec. 17.
- Anderson, John E., assignor to Plibrico Jointless Firebrick Company, Chicago, Ill. Flexible anchor. 1,720,875; July 16.
- Anderson, John E., assignor to Plibrico Jointless Firebrick Company, Chicago, Ill. Circulating-air-cooled block. 1,741,180; Dec. 31.
- Anderson, John J., Minneapolis, Minn. Boat propeller. 1,738,154; Dec. 3.
- Anderson, John N., Chicago, Ill. Sound amplifier. 1,715,181; May 28.
- Anderson, John P. (See Schmohl, A. C., and Anderson.)
- Anderson, John P., Koppel, assignor to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Operating valve for pressure-operated dump cars. 1,699,387; Jan. 15.
- Anderson, John R., Moline, Ill. Rowing machine. 1,707,791; Apr. 2.
- Anderson, John R., Moline, Ill., assignor to H. B. Brown, Davenport, Iowa. Exercising apparatus. 1,705,745; Mar. 19.
- Anderson, John W., Gary, Ind. Advertising device. 1,722,486; July 30.
- Anderson, John W., Gary, Ind. Windshield-cleaning means. 1,730,342; Oct. 8.
- Anderson, John W., assignor of one-half to J. A. Graham, Aurora, Ill. Folding table. 1,737,821; Dec. 3.
- Anderson, John W., assignor of one-half to J. A. and E. H. Graham, Aurora, Ill. Toilet or vanity case. 1,714,751; May 28.
- Anderson, Joseph A., assignor of forty-nine one-hundredths to J. D. Cook, Denver, Colo. Headlight. 1,704,117; Mar. 5.
- Anderson, Karl E., Chicago, Ill. Material holder. 1,721,142; July 16.
- Anderson, Karl G., Seattle, Wash. Table. 1,721,327; July 16.
- Anderson, Karl G., St. Paul, Minn., assignor to The Seeger Refrigerator Company. Refrigerator. 1,724,546; Aug. 13.
- Anderson, Knute G., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Case. 1,729,432; Sept. 24.
- Anderson, Knute H., Chicago, Ill. Rubber-heel holder. 1,705,215; Mar. 12.
- Anderson, Lennox J. (See Stephens, F. G. C., Anderson, and Cash.)
- Anderson, Lon D., Cross Cut, Tex. Wrench. 1,719,414; July 2.
- Anderson, Louis S., Chicago, Ill., assignor to Reid, Murdoch & Company. Merchandising and display equipment. 1,720,876; July 16.
- Anderson, Martin E., Denver, Colo. Combined inflating and deflating valve. 1,724,063; Aug. 13.
- Anderson, Martin E., Denver, Colo. Air valve. 1,729,469; Sept. 24.
- Anderson, Maud L. (See Woodruff, Leon A., assignor.)
- Anderson, Maurice, Edgewood, R. I. Bracelet-end hook. 1,709,053; Apr. 16.
- Anderson, Neil J., Hermosa Beach, Calif. Skate-key-holding device. 1,740,138; Dec. 17.
- Anderson, Nelson F., Los Angeles, Calif. Photoprinter's light box. 1,710,960; Apr. 30.
- Anderson, Olaf A., deceased, Hamilton, Ohio; The Citizens Savings Bank and Trust Company, executor. Motor-vehicle lock. Re17,489; Nov. 19.
- Anderson, Olaf E., Denver, Colo. Pulverizer and mixer. 1,725,743; Aug. 27.
- Anderson, Orlin S., Lakewood, assignor to The V. D. Anderson Company, Cleveland, Ohio. Combined feed device and magnetic separator. 1,723,119; Aug. 6.
- Anderson, Oscar, Portland, Oreg. Saw aligner. 1,703,980; Mar. 5.
- Anderson, Oscar G., Marquette, Mich. Oil trap. 1,706,990; Mar. 26.
- Anderson, Otto, Portland, Oreg. Safety signal for electric flatirons. 1,714,937; May 28.
- Anderson, Otto A., assignor to Zangerle & Peterson Company, Chicago, Ill. Settee frame or similar article. Des. 77,455; Jan. 15.
- Anderson, Otto A., assignor to Zangerle & Peterson Company, Chicago, Ill. Settee frame or similar article. Des. 77,456; Jan. 15.
- Anderson, Otto A., assignor to Zangerle & Peterson Company, Chicago, Ill. Settee frame or similar article. Des. 77,457; Jan. 15.
- Anderson, Otto A., assignor to The Zangerle & Peterson Company, Chicago, Ill. Settee frame or similar article. Des. 78,187; Apr. 9.
- Anderson, Per A. H., Chicago, Ill. Sash construction. 1,697,338; Jan. 1.
- Anderson, Percy G., Elgin, Ill. Corn pad. 1,736,515; Nov. 19.
- Anderson-Pitt Corporation, The. (See Pitt, Frederick D., assignor.)
- Anderson Puffed Rice Company. (See Anderson, Alexander F., assignor.)
- Anderson, Ralph J., Stoughton, Wis. Time register. 1,698,208; Jan. 8.
- Anderson, Randall, et al. (See Ebert, Joseph, assignor.)
- Anderson, Raymond T., Lakewood, assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. 1,722,881; July 3.
- Anderson, Raymond T., assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. 1,722,882; July 30.
- Anderson, Reginald, assignor to The Forbush Shoe Company, North Grafton, Mass. Shoe. 1,737,748; Dec. 3.
- Anderson, Ren M., Cincinnati, Ohio. Animated sign. 1,737,290; Nov. 26.
- Anderson, Robert E., Morrisville, Pa., and D. P. Forst, Trenton, N. J., assignors to Robertson Art Tile Company, Morrisville, Pa. Sagger. 1,704,070; Mar. 5.
- Anderson, Robert G., Elmhurst, New York, N. Y., assignor to International Motor Company, New York, N. Y. Bodybolster construction. 1,735,887; Nov. 19.
- Anderson, Robert G., Erie, Pa., assignor to General Electric Company. Flexible coupling. 1,738,416; Dec. 3.
- Anderson, Robert J., Minneapolis, Minn. Printing machine. 1,708,750; Apr. 9.
- Anderson, Roy F., assignor to Hayes-Ionia Company, Grand Rapids, Mich. Windshield weather strip. 1,706,597; Mar. 26.
- Anderson, Roy H., Long Beach, Calif. Pitch shackle. 1,735,716; Nov. 12.
- Anderson, Rudolph A., Walla Walla, Wash. Yielding power take-off. 1,727,801; Sept. 10.
- Anderson, Russell M., Kansas City, Mo., assignor to Premier Cutlery, Inc., New York, N. Y. Tweezers. 1,701,995; Feb. 12.
- Anderson, Sidney E., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Wave-transmission means. 1,738,274; Dec. 3.
- Anderson, Sigured E., Des Moines, assignor to G. C. Rowell, Leon, Iowa. Cake safe. 1,728,521; Sept. 17.
- Anderson, Swan, Minneapolis, Minn. Steam generator. 1,703,565; Feb. 26.
- Anderson, Swan E., assignor to Anderson Bros. Mfg. Co., Rockford, Ill. Slab cutter. 1,736,992; Nov. 26.
- Anderson, Thomas F. (See Carpenter, R. F., and Anderson.)
- Anderson, Torval J., Chicago, Ill. Rotary cutter head for woodworking machines. 1,730,714; Oct. 8.
- Anderson, V. D., Company, The. (See Anderson, Frank B., assignor.)
- Anderson, V. D., Company, The. (See Anderson, Orlin S., assignor.)



- Anderson, V. D., Company, The. (See Anderson, Raymond T., assignor.)
- Anderson, Victor E., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. 1,706,372; Mar. 19.
- Anderson, Wilford E., La Grande, Oreg. Grading machine. 1,730,343; Oct. 8.
- Anderson, William, St. Louis, Mo., assignor of one-fifth to M. Oliver and one-fifth to J. Cullinane. Window fixture. 1,717,955; June 18.
- Anderson, William and F. T., assignors to Chicago Cutting Die Co., Chicago, Ill. Reversible die for cutting uppers for oxfords and low shoes. 1,702,956; Feb. 19.
- Anderson, William A., Walnut Park, Calif. Knob-grinding machine. 1,699,516; Jan. 22.
- Anderson, William H., Spokane, Wash. Automatic auto signal. 1,702,290; Feb. 19.
- Anderson, William H., Detroit, Mich. Golf club. 1,713,158; May 14.
- Anderson, William M., Detroit, Mich. Can opener. 1,700,463; Jan. 29.
- Anderson, William T., jr., and F. W. Robinson, assignors to Hanovia Chemical and Mfg. Co., Newark, N. J. Apparatus for polarizing ultra-violet radiations. 1,717,360; June 18.
- Andersson, Axel L., Lund, Sweden. Combined bottling, corking, and labeling machine. 1,697,448; Jan. 1.
- Andersson, Bror J. F., Stockholm, Sweden. Nut lock. 1,739,476; Dec. 10.
- Andersson, Pelle, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Compressor. 1,706,373; Mar. 19.
- Andorff, Fritz, Viernheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. High-tension bushing transformer. 1,697,156; Jan. 1.
- Andorff, Fritz, Viernheim, and K. Landsmann, Mannheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrical relay-control apparatus. 1,723,322; Aug. 6.
- Andow, Churoku. (See Mimaki, H., Andow, and Mutaguchi.)
- Andrade, Cipriano, jr., New York, N. Y. Differential. 1,698,181; Jan. 8.
- Andrade, Cipriano, jr., New York, N. Y. Bed sheet. 1,701,058; Feb. 5.
- Andrade, Cipriano, jr., New York, N. Y. Roller-locking device. 1,706,867; Mar. 26.
- Andrade, Cipriano, jr., New York, N. Y. Windlass. 1,719,744; July 2.
- Andrade, Manuel J., Oakland, Calif. Musical instrument. 1,732,297; Oct. 22.
- Andrake, Andrew A., Cleveland, Ohio, assignor to The Glenn L. Martin Company, Baltimore, Md. Manufacturing cowlings. 1,733,770; Oct. 29.
- André, Roger M., Fontenay-sous-Bois, France. Automatic furnace apparatus. 1,713,508; May 21.
- Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Attaching tapped nuts to metal plates. 1,705,463; Mar. 12.
- Andren, John L., Bridgeport, Conn. Making alloy steels. 1,699,731; Jan. 22.
- Andres, Edward M., and R. W. Tallman, Gunnison, Colo. Mechanical graph. 1,711,980; May 7.
- Andres, Edward M., and R. W. Tallman, Gunnison, Colo. Mechanical graph. 1,711,981; May 7.
- Andres, Edward M., assignor of one-half to R. W. Tallman, Gunnison, Colo. Graphic chart. 1,713,811; May 21.
- Andres, Paul G. (See Hawley, J. B., and Andres.)
- Andres, Paul G., La Grange, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Sound-reproducing unit. Ref. 7,515; Dec. 10.
- Andres, Paul G., River Forest, assignor to Newcombe-Hawley, Inc., St. Charles, Ill. Sound-reproducing device. 1,702,240; Feb. 19.
- Andres, Paul G., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Radio receiving set. 1,704,380; Mar. 5.
- Andres, Paul G., assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Sound-regenerating device. 1,716,475; June 11.
- Andres, William J., South Bend, Ind. Lever movement. 1,724,897; Aug. 20.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,697,219; Jan. 1.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Switch mechanism. 1,702,396; Feb. 19.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,708,167; Apr. 9.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating connection. 1,708,168; Apr. 9.
- Andres, William J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,727,923; Sept. 10.
- Andresen, George, Chicago, Ill., assignor to W. B. Parkyn. Compressor. 1,717,321; June 11.
- Andresen, Lauritz B., Minneapolis, assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn. Dental flask clamp. 1,724,691; Aug. 13.
- Andresen, Lauritz B., Minneapolis, assignor to M. F. Patterson Dental Supply Co., St. Paul, Minn. Heating device. 1,724,867; Aug. 13.
- Andresen, Viggo V. J., Oslo, Norway. Sugar product and making same. 1,732,492; Oct. 22.
- Andrew, Frederick W., Andalusia, Pa., assignor, by mesne assignments, to The Electrolock Manufacturing Company, Vicksburg, Miss. Ignition-switch lock. 1,710,912; Apr. 30.
- Andrew, Richard E., Philadelphia, Pa. Safety device for submarines. 1,739,815; Dec. 17.
- Andrews, Albert, Deadwood, S. Dak. Mechanical movement. 1,738,512; Dec. 10.
- Andrews, Alfred W., assignor to Adam Gschwindt, Rockford, Ill. Flour sifter. 1,704,525; Mar. 5.
- Andrews, Austin W., New York, N. Y. Game apparatus. 1,729,023; Sept. 24.
- Andrews, Champe S., Chattanooga, Tenn. Folded box. 1,698,699; Jan. 8.
- Andrews, Champe S., Chattanooga, Tenn. Die roll. 1,737,553; Dec. 3.
- Andrews, Champe S., North Chattanooga, Tenn., assignor to Box Blank Corporation, New York, N. Y. Plate-holding device. 1,729,412; Sept. 24.
- Andrews, Champe S., North Chattanooga, Tenn., assignor to Box Blank Corporation, New York, N. Y. Die roll. 1,738,271; Dec. 3.
- Andrews, Charles S., Sperry, Okla. Clamp. 1,726,790; Sept. 3.
- Andrews, Charles W. (See Rusby, J. M., and Andrews.)
- Andrews, Charles W., et al. (See Andrews, C. W., and Chapman, assignors.)
- Andrews, Charles W., Duluth, Minn. Making water gas. 1,709,107; Apr. 16.
- Andrews, Charles W., Duluth, Minn., and H. A. Brassert, Chicago, Ill. Producing water gas. 1,701,253; Feb. 5.
- Andrews, Charles W., Duluth, Minn., and H. A. Brassert, Chicago, Ill. Gas production. 1,707,651; Apr. 2.
- Andrews, Charles W., Duluth, Minn., and W. B. Chapman, Brooklyn, N. Y., assignors of one-half to Chapman Engineering Company, and one-half to C. W. Andrews. Gas generator. 1,709,334; Apr. 16.
- Andrews, Charles W., Duluth, Minn., and W. B. Chapman, Jackson Heights, N. Y., assignors of one-half to H. A. Brassert & Company, and one-half to The Western Gas Construction Company. Generating gas. 1,709,335; Apr. 16.
- Andrews, Chester E. (See Canon, F. A., and Andrews.)
- Andrews, Cleon W. (See Crego, W. A. and Andrews.)
- Andrews Crane Corporation. (See Wyllie, John R., assignor.)
- Andrews Crane Corporation. (See Andrews, D. S., and Wyllie, assignors.)
- Andrews, Donald S., Rumson, N. J., and J. R. Wyllie, Glenbrook, Conn., assignors to Andrews Crane Corporation, New York, N. Y. Shipping container. 1,740,000; Dec. 17.
- Andrews, Edward C., St. Louis, Mo., and M. Lindemann, East St. Louis, Ill.; said Lindemann assignor to said Andrews. Grain-cutting roll. 1,722,999; Aug. 6.
- Andrews, Edward F., Chicago, Ill., assignor to Radio Corporation of America. Inductance. 1,706,991; Mar. 26.
- Andrews, Edward F., assignor to Andrews-Hammond Corporation, Chicago, Ill. Electrolytic condenser. 1,717,488; June 18.
- Andrews, Frank W., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,710,009; Apr. 23.
- Andrews, Frank W., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,726,791; Sept. 3.
- Andrews, Frank W., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind. Piston. 1,726,793; Sept. 3.
- Andrews, George W., jr., Vernon, Conn. Work-holding device. 1,729,812; Oct. 1.
- Andrews-Hammond Corporation. (See Andrews, Edward F., assignor.)
- Andrews, Hector G., Windsor, Ontario, Canada. Vehicle brake. 1,705,350; Mar. 12.
- Andrews, Irving B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thermally-controlled heating apparatus. 1,734,609; Nov. 5.
- Andrews, Jacob, St. Louis County, Mo. Safety device for gas stoves. 1,708,210; Apr. 9.
- Andrews, James M., Brooklyn, assignor to Robert Gair Company, New York, N. Y. Cushion carton. 1,701,059; Feb. 5.
- Andrews, John H., San Bernardino, Calif. Table football game. 1,701,655; Feb. 12.
- Andrews, John W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Producing magnetic materials. 1,703,287; Feb. 26.
- Andrews, L. V., and O. Craig, assignors to Riley Stoker Corporation, Worcester, Mass. Regulatable feeding apparatus. 1,731,515; Oct. 15.
- Andrews, Lawrence W. (See Zarate, Paul, jr., assignor.)
- Andrews, Leonard, Westminster, England. Vortex classifier suitable for use in the classification of powdered materials by elutriation. 1,701,942; Feb. 12.
- Andrews, Leonard, Westminster, England. Method and apparatus for the classification of materials by elutriation. 1,705,351; Mar. 12.
- Andrews, Mark E., Kansas City, Mo. Brake structure for automotive vehicles. 1,718,021; June 18.
- Andrews, Nathaniel R., Yonkers, and J. J. Neuman, New York, N. Y. Centrifugal extractor-operating plant. Re. 17,378; July 23.



- Andrews, Paul D., Schenectady, N. Y., assignor to General Electric Company. Variometer. 1,728,028; Sept. 10.
- Andrews, Philip R., Seattle, Wash. Metal oar. 1,740,560; Dec. 24.
- Andrews, Roger W., Pittsburgh, assignor by mesne assignments to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,708,654; Apr. 9.
- Andrews, Humfrey, Highgate, London, England, assignor to Radio Patents Corporation, Bronx Boulevard, New York, N. Y. Electrostatic phonograph pick-up. 1,732,393; Oct. 22.
- Andrews, Humfrey, London, England, assignor of one-half to Radio Patents Corporation, New York, N. Y. Electric pick-up device. 1,732,427; Oct. 22.
- Andrieu, Louis, Paris, France. Brush. 1,715,974; June 4.
- Andros, Charles H. (See Barody, Moses, assignor.)
- Andrusis, John A., Brooklyn, N. Y. Auxiliary knife for vegetable slicers. 1,739,342; Dec. 10.
- Andrzejewski, Ladyslaw, South Bend, Ind. Brake. 1,738,980; Dec. 10.
- Anduze, Lucien, Limoges, France, assignor to Herman C. Kupper, Inc., New York, N. Y. Cover for dish or similar article. Des. 77,722; Feb. 19.
- Anduze, Lucien, Limoges, France, assignor to Herman C. Kupper, Inc., New York, N. Y. Covered dish or similar article. Des. 77,723; Feb. 19.
- Andvig, Jens, Oslo, Norway. Whale-oil-refinery vessel. 1,699,938; Jan. 22.
- And-Way Stamping Company. (See Anderson, Bert J., assignor.)
- Anello, Tony P., Tampa, Fla. Convertible swing. 1,702,190; Feb. 12.
- Anetsberger, Frank A. and W., Chicago, Ill. Cabinet construction. 1,726,194; Sept. 3.
- Anetsberger, William. (See Anetsberger, Frank A. and W.)
- Angel, Georg, Flensburg, Germany. Wire stretcher. 1,702,331; Feb. 19.
- Angell, Arnold A., Chicago, Ill. Making cylindrical brushes. 1,721,062; July 16.
- Angell, Chester M., Chicago, Ill., assignor to Vestea Battery Corporation. Battery-charger apparatus. 1,721,681; July 23.
- Angell, Edward C., New York, N. Y. Paper container. 1,741,490; Dec. 31.
- Angell, Fred P., Battle Creek, Mich. Flush valve. 1,735,228; Nov. 12.
- Angell, Lynn B., South Otselic, N. Y. Snowplow. 1,698,809; Jan. 15.
- Angell, Robert C., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Securing device. 1,715,975; June 4.
- Angelus, Louis, New York, N. Y. Selector mechanism for pleating machines. 1,699,340; Jan. 15.
- Angelus, William N., Alma, Mich. Vehicle spring. 1,714,067; May 21.
- Angert Brothers. (See Angert, George H., assignor.)
- Angert, George H., assignor to Angert Brothers, Cincinnati, Ohio. Adjustable table. 1,737,956; Dec. 3.
- Anglada, Joseph A., Jenkintown, Pa. Internal-combustion engine. 1,730,035; Oct. 8.
- Anglada, Joseph A., Jenkintown, Pa. Speed-transforming mechanism. 1,731,285; Oct. 15.
- Angle, Glenn D., Dayton, Ohio. Method and apparatus for obtaining indicator cards from engines. 1,720,710; July 16.
- Angle, Glenn D., Dayton, Ohio. Making cylinder heads. 1,720,711; July 16.
- Aule, Glenn D., and G. E. A. Hallett, Detroit, Mich. Composite aluminum to steel cylinder construction. 1,710,136; Apr. 23.
- Angle Steel Stool Company. (See Pipp, Charles E., assignor.)
- Anglemyer, Carl M. (See Coffman, W. P., and Anglemyer.)
- Anglemyer, Willard A., Indianapolis, Ind. Valve construction. 1,718,807; June 25.
- Anglo-American Mill Company. (See Kantmann, Adolph G., assignor.)
- Anglo-American Pharmaceutical Company Limited. (See Mason, Hubert C., assignor.)
- Anglo-Persian Oil Company. (See Auld, S. J. M., Dunstan, and Herring, assignors.)
- Anglo-Persian Oil Company, Limited. (See Beale, E. S. L., Coxon, and Dunstan, assignors.)
- Angst, Emil, Seebach, near Zurich, Switzerland. Sewing machine. 1,741,179; Dec. 31.
- Angus, Arthur R., Westminster, England. Control of trains. 1,707,037; Mar. 26.
- Angus, Arthur R., Westminster, England. Control of trains. 1,710,494; Apr. 23.
- Anhalt, Sidney S., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 78,373; Apr. 30.
- Anheuser-Busch, Incorporated. (See Bratton, George S., assignor.)
- Anheuser, Ernest A., Milwaukee, Wis. File-milling head. 1,710,466; Apr. 23.
- Anheuser, Ernest A., Milwaukee, Wis. File. 1,727,690; Sept. 10.
- Anibal, Benjamin H., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Cam shaft oiling. 1,707,750; Apr. 2.
- Anibal, Benjamin H., Pontiac, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Torsion balancer. 1,718,207; June 25.
- Anibal, Benjamin H., Pontiac, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Torsion balancer. 1,718,208; June 25.
- Animal Trap Company of America. (See Newhouse, Milford J., assignor.)
- Animated-Ads (A/Sia) Proprietary Limited. (See Blake, Ernest E., assignor.)
- Anissimoff Boris, Manila, P. I. Device for reducing the skin and wave resistance of moving boats. 1,697,257; Jan. 1.
- Ankenbauer, Lee, Strawn, Tex. Cane cutter. 1,708,350; Apr. 9.
- Ankeney, Roland L. (See Young, W. A., and Ankeney.)
- Ankeny, Harry R. (See Slama, William G., assignor.)
- Anker-Holth, Severin C., Los Angeles, Calif. Flying machine. 1,731,494; Oct. 15.
- Anker-Holth, Severin C., Los Angeles, assignor to California Packing Corporation, San Francisco, Calif. Fish-cleaning machine. 1,724,587; Aug. 13.
- Ankersen, George W. (See Babson, H. B., and Ankersen.)
- Ankersmit, Otto A., Delft, Netherlands. Measuring apparatus. 1,703,085; Feb. 26.
- Annard, George A., and E. H. Kay, Hayward, Calif. Knockdown bleacher. 1,715,885; June 4.
- Anode Rubber Company, The. (See Klein, P., and Szegvári, assignors.)
- Anode Rubber Company Limited, The. (See Klein, P., and Szegvári, assignors.)
- Anolicoal Burner Co., The. (See Wetmore, Earl P., assignor.)
- Anschicks, Rudolph J., assignor to Protectoseal Company of America, Chicago, Ill. Oil can. 1,725,386; Aug. 20.
- Ansehl, Benjamin, St. Louis, Mo. Dispenser. 1,736,146; Nov. 19.
- Ansel, Murry L., Chicago, Ill., assignor to J. Livingston & Co. Conduit fitting. 1,735,663; Nov. 12.
- Ansell, George A., assignor to The Dunlop Tire & Rubber Goods Co., Limited, Toronto, Ontario, Canada. Pressure hose and making same. 1,741,491; Dec. 31.
- Ansell, Henry W., Stegi, Swaziland, South Africa. Tooth-paste holder. 1,699,939; Jan. 22.
- Ansingh, Herman K. (See Randall, K. C., and Ansingh.)
- Anslm, Roy W., Kansas City, Mo. Window wiper; 1,721,613; July 23.
- Ansley, Charlotte E., Minneapolis, Minn. Garment. 1,729,601; Sept. 24.
- Ansonia Clock Company, The. (See Streng, Jan, assignor.)
- Ansoorge, Percy I., Brooklyn, N. Y. Floor lamp. Des. 78,557; May 21.
- Anstey, Frank. (See Pugh, J. V., and Anstey.)
- Anstice, Josiah, & Co. (See McCathron, Claude B., assignor.)
- Anstiss, George P. (See Blakeslee, G. S., and Anstiss.)
- Anstiss, George P., Oak Park, assignor to G. S. Blakeslee & Co., Cicero, Ill. Washing machine. 1,697,220; Jan. 1.
- Anstiss, George P., Oak Park, assignor to G. S. Blakeslee & Co., Cicero, Ill. Peeling machine. 1,701,435; Feb. 5.
- Anstiss, George P., Oak Park, assignor to G. S. Blakeslee & Co., Cicero, Ill. Washing machine. 1,730,348; Oct. 8.
- Anthoni, Theodor, Bogota, N. J. Shaft hanger and bearing. 1,729,499; Sept. 24.
- Anthony Company. (See Anthony, William C., assignor.)
- Anthony Company. (See Anthony, W. C., and Benedict, assignors.)
- Anthony, Floss F., administratrix. (See Anthony, Marc O.)
- Anthony, Herman R. C., assignor to French Battery Company, Madison, Wis. Dry-battery construction. 1,737,445; Nov. 26.
- Anthony, James T., South Orange, N. J., assignor to General Refractories Company, Philadelphia, Pa. Arch brick. 1,708,406; Apr. 9.
- Anthony, James T., South Orange, N. J., assignor to General Refractories Company, Philadelphia, Pa. Arch brick. 1,721,267; July 16.
- Anthony, Marc O., deceased, Cleveland, Ohio; F. K. Anthony, administratrix. Perforating mechanism. 1,714,583; May 28.
- Anthony, Thomas, New York, N. Y. Restaurant-check-protecting device. 1,698,465; Jan. 8.
- Anthony, William C., assignor to Anthony Company, Streator, Ill. Winch mechanism. 1,700,426; Jan. 29.
- Anthony, William C., assignor to Anthony Company, Streator, Ill. Dumping body. 1,704,274; Mar. 5.
- Anthony, William C., and C. H. Benedict, assignors to Anthony Company, Streator, Ill. Winch mechanism. 1,700,191; Jan. 29.
- Anthoulis, George D. (See Deligianes, T. N., and Bourdes, assignors.)
- Anthracte Separator Company. (See Pardee, Frank, assignor.)
- Anthracte Separator Company. (See Pardee, Frank and F. jr., assignors.)
- Antidolor Mfg. Co. Inc., The. (See Waite, Ralph B., assignor.)
- Antill, John H. (See Hazen, F. D., and Antill.)
- Antisell, Frank L., Perth Amboy, N. J. Vacuum pump. 1,726,136; Aug. 27.
- Antoine, Tony, Brussels, Belgium. Carburetor for internal-combustion engines. 1,741,447; Dec. 31.



- Antonelli, Cesare. (See Zanardelli, F., and Antonelli.)  
 Antonelli, Leonida, Bologna, Italy. Rotary pump. 1,728,321; Sept. 17.  
 Antonelli, Orazio J., Fall River, Mass. Motion-picture-projecting machine. 1,731,733; Oct. 15.  
 Antonelli, Orazio J., assignor to Geyser Instantaneous Water Heater Co., Fall River, Mass. Gas burner. 1,731,734; Oct. 15.  
 Antoniow, Tassos, Seattle, Wash. Logging hook. 1,716,997; June 11.  
 Antonsen, Louie J., Seattle, Wash. Paper-excelsior machine. 1,731,967; Oct. 15.  
 Antonu, Nicolae, Galatz, Roumania. Shirt collar. 1,709,702; Apr. 16.  
 Antonuk, Makary, New York, N. Y. Folding stool. 1,717,908; June 18.  
 Antrainer, Arthur H., and D. B. Ryan, St. Louis, Mo. Hydraulic steering mechanism. 1,712,171; July 16.  
 Antrim, Louis C. (See Walsh, J. D., and Antrim.)  
 Antrim, William D., Gloucester, N. J., assignor to Roberts & Mander Stove Company, Philadelphia, Pa. Oven door and hinge therefor. 1,732,077; Oct. 15.  
 Antrim, William D., Gloucester, N. J., assignor to Roberts & Mander Stove Company, Philadelphia, Pa. Oven-door hinge. 1,735,717; Nov. 12.  
 Anzell, Anna S., Brooklyn, N. Y. Automobile mirror. 1,703,704; Feb. 26.  
 Aoki, Sataro, Ebara, Tokyo, Japan, assignor to General Electric Company. Rectifying system. 1,708,751; Apr. 9.  
 Aoki, Sataro, Hiratsuka, Japan, assignor to General Electric Company. Electrical system. 1,717,299; June 11.  
 Aoyama, Kichizayemon, Shiba-Ku, Tokyo, assignor to T. Mishima, Tokyo, Japan. Artificial-wheat-straw braid. 1,712,017; May 7.  
 Apco Manufacturing Company. (See Cavanagh, John F., assignor.)  
 Apelt, Charles, Comfort, Tex. Lamp shade. Des. 77,385; Jan. 8.  
 Apex Electrical Manufacturing Company, The. (See Hoff, Earl B., assignor.)  
 Apex Electrical Manufacturing Company, The. (See McClatchie, Stanley, assignor.)  
 Apex Electrical Manufacturing Company, The. (See Smith, Harold E., assignor.)  
 Apex Stamping Company. (See Rubel, James L., assignor.)  
 Apex Stamping Company. (See Sweet, Clifford I., assignor.)  
 Apfel, Philip F., Seattle, Wash. Electric heater. 1,699,323; Jan. 15.  
 Apfelbaum, Frederick A., New York, N. Y. Advertising device. 1,715,887; June 4.  
 Apfelbaum, William, assignor to The Pulpore Can & Box Co., Inc., Brooklyn, N. Y. Labeling machine. 1,711,257; Apr. 30.  
 Apfelbaum, William, assignor to The Pulpore Can & Box Co., Inc., New York, N. Y. Apparatus for molding plastic material. 1,731,240; Oct. 15.  
 Apgar, Frank A., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Refining hydrocarbons. 1,735,988; Nov. 19.  
 Apgar, William C., Alliance, Ohio. Automatic filling station. 1,715,182; May 28.  
 Aplin, Ole F., Culbertson, Mont. Feed-gate control. 1,736,691; Nov. 19.  
 Apold, Anton, Vienna, and H. Flessner, Leoben, Austria. Roasting iron carbonate ores. 1,729,697; Oct. 1.  
 Apollo Holding Corporation. (See McCrery, Harold E., assignor.)  
 App, Oliver O., New York, N. Y., assignor to App Tunneling Machine Co., Inc. Excavating method and apparatus. 1,717,597; June 18.  
 App, Oliver O., New York, N. Y., assignor to App Tunneling Machine Co., Inc. Excavating device. 1,720,195; July 9.  
 App Tunneling Machine Co. (See App, Oliver O., assignor.)  
 Appel, Henry, Waterloo, Iowa. Grain sprouter. 1,728,951; Sept. 24.  
 Appel, Moses, Johnstown, Pa. Furnace. 1,726,606; Sept. 3.  
 Appel, Robert E., Springfield, Ill. Radio equipment. 1,716,409; June 11.  
 Appel, Rudolf, Berlin, Germany. Electrolytically separating metallic chromium for the production of chromium coatings on other metals. 1,713,514; May 21.  
 Appelbaum, Isaac, Philadelphia, Pa. Garment container and carrier. 1,699,942; Jan. 22.  
 Appelbaum, Isaac, Philadelphia, Pa. Folding box or container. 1,731,996; Oct. 15.  
 Appelberg, Axel O., assignor to Aktiebolaget Birka Regulator, Stockholm, Sweden. Electrically-controlled apparatus. 1,697,040; Jan. 1.  
 Appelberg, Axel O., Stockholm, Sweden. Thermostatic switch. 1,699,940; Jan. 22.  
 Appelberg, Axel O., assignor to Aktiebolaget Birka Regulator, Stockholm, Sweden. Thermostatic control system for electric heat-producing apparatus. 1,700,661; Jan. 29.  
 Appelberg, Axel O., assignor to Aktiebolaget Birka Regulator, Stockholm, Sweden. Electric switch. 1,741,600; Dec. 31.  
 Appelberg, Axel O., assignor to Aktiebolaget Birka Regulator, Stockholm, Sweden. Thermostatic make and break switch. 1,741,601; Dec. 31.  
 Appenzeller, Ernst. (See Müller, W., and Appenzeller.)  
 Applas, Clarence S., Sacramento, Calif. Window channel. 1,715,733; June 4.  
 Apple Vender Company. (See Massie, Noah H., assignor.)  
 Apple, Vincent G., Dayton, Ohio. Building armatures. Re17,353; July 2.  
 Apple, Vincent G., Dayton, Ohio. Building armatures. Re17,455; Oct. 15.  
 Apple, Vincent G., Dayton, Ohio. Automotive electrical system. 1,697,897; Jan. 8.  
 Apple, Vincent G., Dayton, Ohio. Combined motor and reduction gear. 1,728,224; Sept. 17.  
 Apple, Vincent G., Dayton, Ohio. Making armatures. 1,738,166; Dec. 3.  
 Appleby, James P., assignor to Frank Graves Sash, Door and Mill Company, Los Angeles, Calif. Sash balance. 1,699,267; Jan. 15.  
 Appleby, James P., assignor to Frank Graves Sash, Door and Mill Company, Los Angeles, Calif. Sash balance. 1,699,341; Jan. 15.  
 Appleby, Percy V., London, England. Machine for the combing or hacking of coco-bristle fibers or other like operations. 1,715,443; June 4.  
 Appleby, Thomas, Philadelphia, assignor to A. A. Kent, Ardmore, Pa. Method of and apparatus for producing oscillations. 1,719,956; July 9.  
 Applegate, Addison, Liberty, N. Y. Fluid-dispensing device. 1,704,355; Mar. 5.  
 Applegate, David E., Chatsworth, N. J. Cranberry separator. 1,700,302; Jan. 29.  
 Appleman, Boyd K., Beaumont, Tex. Well-drilling tool. 1,740,915; Dec. 24.  
 Appleman, Charles H., assignor to A. Amitin, Brooklyn, N. Y. Lamp-stand base or similar article. Des. 79,689; Oct. 29.  
 Applestine, James I., Annapolis, Md. Combination tool. 1,699,266; Jan. 15.  
 Appleton Electric Company. (See Anderson, Ernst G. K., assignor.)  
 Appleton Electric Company. (See Goetzelman, William, assignor.)  
 Appleton, Ernst G. (See Newman, C., and Appleton.)  
 Appleton, Ernst G. (See Williams, C., and Appleton.)  
 Appleton, Ernst G., assignor to Roach-Appleton Manufacturing Company, Chicago, Ill. Switch. 1,699,601; Jan. 22.  
 Appleton, Ernst G., assignor to Roach-Appleton Manufacturing Company, Chicago, Ill. Fixture support. 1,721,724; July 23.  
 Appleton, Ernst G., assignor to Roach-Appleton Manufacturing Company, Chicago, Ill. Switch box. 1,734,322; Nov. 5.  
 Appleton, Joseph, assignor, by mesne assignments, to Simplicity Engine & Manufacturing Company, Port Washington, Wis. Portable metal-working machine. 1,708,822; Apr. 9.  
 Appleton, Joseph, Oshkosh, assignor to Simplicity Manufacturing Company, Port Washington, Wis. Centering device for boring and grinding machines. 1,734,787; Nov. 5.  
 Appleton, Joseph, assignor to Simplicity Engine & Manufacturing Company, Port Washington, Wis. Portable boring and grinding machine. 1,739,536; Dec. 17.  
 Appleton, Joseph H., Oshkosh, Wis., assignor to Allied Packers, Incorporated, Chicago, Ill. Apparatus for reshaping hams. 1,700,250; Jan. 29.  
 Appleton, Joseph H., assignor to Leach Company, Oshkosh, Wis. Broom for street-sweeping machines. 1,727,627; Sept. 10.  
 Appleton, Joseph H., Oshkosh, Wis., assignor to Central Valve Mfg. Co., Chicago, Ill. Valve. 1,719,316; July 2.  
 Appleton Manufacturing Company. (See Van Nortwick, John, assignor.)  
 Appleton, Russell V., Inglewood, Calif. Train stop and signal system. 1,704,116; Mar. 5.  
 Appleyard, Leslie L., assignor to R. J. Ederer Company, Chicago, Ill. Tennis net and manufacturing same. 1,700,192; Jan. 29.  
 Apt, Richard, Berlin-Treptow, Germany. Electric cable and manufacturing same. 1,702,332; Feb. 19.  
 Arakawa, Katoku, Wailuku, Maui, Hawaii. Automatic needle changer for phonographs. 1,729,533; Sept. 24.  
 Aram, Otto, Allentown, Pa., assignor to Westinghouse Electric and Manufacturing Company. Stoker construction. Re17,416; Aug. 27.  
 Aramburu, Domingo, Washington, D. C., assignor to S. Ferrari, New York, N. Y. Advertising machine. 1,723,910; Aug. 6.  
 Arato, Achille, Turin, Italy. Steering gear for trailed vehicles. 1,728,818; Sept. 17.  
 Arbon, Paul, & Company. (See Arbon, Paul, assignor.)  
 Arbon, Paul, deceased, Tulsa, Okla. Fidelity National Bank and Trust Company, Kansas City, Mo., and L. M. McLeod, executors, assignors to Paul Arbon & Company, Tulsa, Okla. Drilling jar. 1,702,680; Feb. 19.  
 Arbon, Paul, deceased, Fidelity National Bank and Trust Company, Kansas City, Mo., and L. M. McLeod, executors, assignors to Paul Arbon & Company, Tulsa, Okla. Tubing oil saver. 1,713,364; May 14.  
 Arbon, Paul, deceased, Tulsa, Okla.; Fidelity National Bank and Trust Company, Kansas City, Mo., and L. M. McLeod, executors, assignors to Paul Arbon & Company, Tulsa, Okla. Making drilling jars. 1,725,842; Aug. 27.



- Arbuckle, James B., Charleroi, and W. Depfer, Donora, Pa. Wrench. 1,736,385; Nov. 19.
- Arbuckle, Randolph, La Grange, Ill. Screen. 1,715,024; May 28.
- Arbuckle, Samuel F., Detroit, Mich., assignor to Monogram Lens Corporation. Apparatus for determining focal position of lamps. 1,706,095; Mar. 19.
- Arbuckle, Samuel F., Detroit, Mich., assignor to Monogram Lens Corporation, New York, N. Y. Adapter for head-light reflectors. 1,706,836; Mar. 26.
- Arbuckle, Samuel F., Detroit, Mich., assignor to Monogram Lens Corporation. Apparatus for indicating the deviation from horizontal of beams of light projected by reflectors. 1,707,593; Apr. 2.
- Arbuckle, Samuel F., Detroit, Mich., and C. P. Brockway, Toledo, Ohio, assignors to Monogram Lens Corporation, New York, N. Y. Head-lamp replacement unit. 1,704,028; Mar. 5.
- Arbuckle, Samuel F., Detroit, Mich., and C. P. Brockway, Toledo, Ohio, assignors to Monogram Lens Corporation, New York, N. Y. Lamp focusing apparatus. 1,706,096; Mar. 19.
- Archbold Brady Company. (See Alvord, Grove D., assignor.)
- Archea, Walter D., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling machine. 1,727,424; Sept. 10.
- Archer, John O., Solomonsville, Ariz. Road-grading machine. 1,728,466; Sept. 17.
- Archer, Merton T., Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio. Wrench. 1,722,652; July 30.
- Archer, Robert S. (See Jeffries, Z., and Archer.)
- Archer, Robert S., and W. L. Fink, Cleveland, Ohio, assignors to Aluminum Company of America, Pittsburgh, Pa. Aluminum-beryllium alloy and method of treatment. 1,716,943; June 11.
- Archer Rubber Company. (See Callahan, John T., assignor.)
- Archer, Thomas P. (See Edgar, F. M., and Archer.)
- Archer, Thomas P., and F. M. Edgar, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Handle assembly. 1,706,598; Mar. 26.
- Archer, Thomas P., and J. B. Flynn, assignors to Ternstedt Manufacturing Co., Detroit, Mich. Door bumper. 1,740,939; Dec. 24.
- Archer, William T., assignor of thirty-two and two-thirds per cent to J. H. Ferrill and thirty-two and two-thirds per cent to T. A. Reynolds, Los Angeles, and two per cent to L. G. Allaire, Huntington Beach, Calif. Boiler-flue cleaner. 1,731,646; Oct. 15.
- Archibald, Frederick, Wilmington, Ill. Mechanical shovel. 1,710,564; Apr. 28.
- Archibald, John B., assignor of one-third to F. F. Dove and one-third to F. Larson, Cedar Rapids, Iowa. Signaling device. 1,715,265; May 28.
- Archibald, Theodore S., Melrose, Mass. Machine for conditioning sash bars. 1,701,602; Feb. 12.
- Arclless Contact Company, The. (See Armstrong, R. W., assignor, and McCabe.)
- Arclless Contact Company, The. (See McCabe, I. E., and Armstrong, assignors.)
- Arctic Nu-Air Corporation. (See Alfreds, Torris H., assignor.)
- Arctic Nu-Air Corporation. (See Feinberg, A., and Halverson, assignors.)
- Arctic Nu-Air Corporation. (See Feinberg, A., and Rathner, assignors.)
- Arctic Nu-Air Corporation. (See Sternberg, Irving C., assignor.)
- Arctic Refrigeration Manufacturing Corporation. (See Muenchen, Peter J., assignor.)
- Arcturus Radio Tube Company. (See Brockway, Carl P., assignor.)
- Arcus, James S., and R. E. Beaubien, Chicago, Ill.; said Beaubien assignor to said Arcus. Ticket issuing machine. 1,706,374; Mar. 19.
- Arco Manufacturing Company. (See Stern, Charles, assignor.)
- Ardell, John E., Tyrone, Pa. Vacuum cleaner. 1,707,382; Apr. 2.
- Arden, Thomas R., Baldwin, N. Y., assignor to American Flyer Mfg. Co., Chicago, Ill. Toy electric locomotive. 1,706,765; Mar. 26.
- Arden, Thomas R., Baldwin, N. Y., assignor to American Flyer Manufacturing Company, Chicago, Ill. Electric motor. 1,715,811; June 4.
- Arduser, Frederick L., Minneapolis, Minn. Collapsible crate. 1,697,379; Jan. 1.
- Arduser, Joseph O., assignor to D. C. Jenkins Glass Company, Kokomo, Ind. Tumbler. Des. 79,276; Aug. 27.
- Arenberg, Albert L., Chicago, Ill. Shadowless lamp. Des. 78,602; May 28.
- Arenc, Karol, Utica, N. Y. Rotary toy. 1,712,467; May 7.
- Arey, Fred C. (See Gollnick, P. A., Ives, Broderick, and Arey.)
- Arey, Fred C., Oak Park, Ill., assignor to J. W. Gleason, Pittsburgh, Pa.; F. W. Bora, New York, N. Y.; W. F. Freudenreich, Kenilworth, and F. H. Chetlain, Chicago, Ill.; and himself, as trustees. Ribbed expanded metal lath. 1,739,473; Dec. 10.
- Argabrite, George M. (See Burnham, M. U., Argabrite, and Dionne.)
- Argabrite, George M., assignor of one-half to Drying Systems, Inc., Chicago, Ill. Conveying means for drying ovens. 1,720,113; July 9.
- Argence, Alfred V., Paris, France. Adjustable shoe-tree. 1,721,428; July 16.
- Argile, Benjamin F. (See Putney, Charles L., assignor.)
- Argo, Lisle T., and H. L. Vines, Los Angeles, Calif. Burner. 1,711,982; May 7.
- Argo Manufacturing Co. (See Settles, Simon G., assignor.)
- Argus Manufacturing Company. (See Nielsen, Jens P., assignor.)
- Argy, Robert E., Niagara Falls, N. Y. Apparatus for making paper. 1,712,374; May 7.
- Argy, Robert E., Niagara Falls, N. Y. Paper machine. 1,712,375; May 7.
- Aring, Walter J., Cleveland Heights, and W. E. Adams, assignors of one-fourth to W. E. Adams, Akron, and one-fourth to W. F. Mosman, East Cleveland, Ohio, and one-half to said Aring. Bank-vault structure. 1,736,184; Nov. 19.
- Arkebauer, Vera, Riverside, Calif. Ring. Des. 79,414; Sept. 17.
- Arkema, Harold P., and S. Thronsen, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Mounting dies. 1,701,656; Feb. 12.
- Arkin, Theodore E., Chicago, Ill. Dancing apparatus. 1,729,813; Oct. 1.
- Arkus, Jacob and S. Brooklyn, N. Y. Denture-attaching device. 1,720,587; July 9.
- Arkus, Simon. (See Arkus, Jacob and S.)
- Arledge, Thomas J., Cisco, Tex. Mail-box hanger. 1,725,693; Aug. 20.
- Arles Motors Incorporated. (See Southern, Robert L., assignor.)
- Arlt, John L., assignor to Sommers Bros. Appliance Co., Saginaw, Mich. Display rack. 1,700,212; Jan. 29.
- Armata, Sam, Goose Creek, Tex. Reliner for balloon tires. 1,700,014; Jan. 22.
- Armaturen- & Maschinenfabrik A.-G. vorm. J. A. Hilpert. (See Hassold, Karl, assignor.)
- Armbrucht, Raymond, Stapleton, N. Y. Toy. 1,719,460; July 2.
- Armbrust, Ferdinand, Providence, R. I. Clasp for watch bracelets. 1,701,060; Feb. 5.
- Armbruster, Frederick C., Shreveport, La. Gas-line stopper. 1,704,161; Mar. 5.
- Armilly, Peter. (See Rush, A. B., and Armilly.)
- Armington, Arthur P., Willoughby, Ohio. Scraper draft gear. 1,714,118; May 21.
- Armington, Arthur P., Willoughby, and W. H. Juergens, Cleveland, assignors to The Euclid Crane and Hoist Company, Euclid Village, Ohio. Wheeled scraper. 1,714,117; May 21.
- Armington, Arthur P. and S. F. Willoughby, assignors to The Euclid Crane & Hoist Company, Euclid, Ohio. Dump-trailer hitch means. 1,716,810; June 11.
- Armington, Stewart F. (See Armington, Arthur P. and S. F.)
- Armistead, Hubert M. (See Rosenthal, C., and Armistead.)
- Armistead, Hubert M., San Francisco, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Typewriter and the like. 1,712,724; May 14.
- Armistead, William C., La Crosse, Wis., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Dispensing pump. 1,705,105; Mar. 12.
- Armistead, William C., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Dispensing pump. 1,709,966; Apr. 23.
- Armitage, Joseph B. (See Kearney, E. J., and Armitage.)
- Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine-tool table. 1,702,374; Feb. 19.
- Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine-tool organization. 1,710,913; Apr. 30.
- Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Transmission and control mechanism for machine tools. 1,715,488; June 4.
- Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine-tool attachment. 1,720,712; July 16.
- Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Lubricating means for motor-driven machine tools. 1,726,330; Aug. 27.
- Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Metal-working machine. 1,726,376; Aug. 27.
- Armitage, Joseph B., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Transmission for machine-tool supports. 1,726,377; Aug. 27.
- Armour & Company. (See Powell, Jesse R., assignor.)
- Armour Fertilizer Works. (See Rupard, Edmond B., assignor.)
- Arms, Edward W., assignor to W. & L. E. Gurley, Troy, N. Y. Plumb bob. 1,704,237; Mar. 5.
- Arms, Ray W., assignor to Roberts and Schaefer Company, Chicago, Ill. Screen. 1,710,795; Apr. 30.
- Armspear Manufacturing Company. (See Spear, Furman D., assignor.)



- Armstrong, Alan, Whitley Bay, assignor to Pilkington Brothers Limited, Liverpool, England. Production of welded wire fabric and apparatus therefor. 1,704,526; Mar. 5.
- Armstrong, Bonnie. (See Reece, V. M., and Armstrong.)
- Armstrong Bros. Tool Co. (See Armstrong, Lennox F., assignor.)
- Armstrong, Charles C., assignor to The Armstrong Electric and Manufacturing Corporation, Huntington, W. Va. Lawn-sprinkler vane. Des. 77,724; Feb. 19.
- Armstrong, Charles C., assignor to The Armstrong Electric and Manufacturing Corporation, Huntington, W. Va. Electric bread toaster. Des. 78,702; June 11.
- Armstrong, Charles C., Huntington, W. Va., assignor to The Armstrong Electric and Manufacturing Corporation. Electric stove. 1,724,164; Aug. 13.
- Armstrong, Charles C., Huntington, W. Va., assignor to The Armstrong Electric and Manufacturing Company. Time-control mechanism for electric stoves. 1,739,937; Dec. 17.
- Armstrong Cork Company. (See Feagley, Joseph C., assignor.)
- Armstrong Cork Company. (See Humphreys, C. F., and McCarthy, assignors.)
- Armstrong Cork Company. (See Vogt, Clarence C., assignor.)
- Armstrong Cork Company. (See Vogt, C. C., and Pieper, assignors.)
- Armstrong Cork Company. (See Webster, Harry A., assignor.)
- Armstrong, Edwin H., Yonkers, N. Y. Wave signaling system. 1,716,573; June 11.
- Armstrong, Edwin J., Erie, Pa., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Steering apparatus for motor-driven vehicles. 1,717,598; June 18.
- Armstrong, Edwin J., deceased; J. W. Armstrong and B. A. Benedict, Erie, Pa., executors, assignors, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Fluid-actuated engine. 1,717,599; June 18.
- Armstrong Electric and Manufacturing Corporation, The. (See Armstrong, Charles C., assignor.)
- Armstrong Electric and Manufacturing Corporation, The. (See Grayson, Charles J., assignor.)
- Armstrong, Ernest, et al. (See Armstrong, George E., assignor.)
- Armstrong, Frank, et al. (See Armstrong, George E., assignor.)
- Armstrong, Frank J., Newburgh, N. Y., assignor to A. J. Reach Company, Philadelphia, Pa. Fielder's glove. 1,725,727; Aug. 20.
- Armstrong, Frederick S., River Forest, Ill., assignor to National Union Radio Corporation. Cathode for electron-emitting devices. 1,730,837; Oct. 8.
- Armstrong, George E., assignor of one-fourth to E. Armstrong, one-fourth to T. Armstrong, and one-fourth to F. Armstrong, Windfall, Ind. Fence-guard support. 1,735,664; Nov. 12.
- Armstrong, Grace Q., New York, N. Y. Doll. Des. 78,803; June 25.
- Armstrong, Harry M. (See Lalanne, P., and Armstrong.)
- Armstrong, Henry, Syracuse, N. Y., assignor, by mesne assignments, to Modern Advertising Machines Limited, Ottawa, Canada. Advertising machine. 1,707,838; Apr. 2.
- Armstrong, Henry W., Bristol, assignor to The National Marine Lamp Company, Forestville, Conn. Marine lamp and lens. 1,723,979; Aug. 6.
- Armstrong, Henry W., Bristol, assignor to The National Marine Lamp Company, Forestville, Conn. Marine lamp. 1,733,981; Oct. 29.
- Armstrong, James E., Dallas, Tex. Telephonic recording apparatus. 1,727,155; Sept. 3.
- Armstrong, James R., Ingram, Pa., assignor, by mesne assignments, to Pittsburgh Equitable Meter Company. Adjustable tangent for meters. 1,723,397; Aug. 6.
- Armstrong, Jessie W., et al., executrices. (See Armstrong, Edwin J.)
- Armstrong, John L. (See Ripley, C. T., and Armstrong.)
- Armstrong, Lennox F., assignor to Armstrong Bros. Tool Co., Chicago, Ill. Wrench for tool holders. 1,732,549; Oct. 22.
- Armstrong, Lyman P., San Jose, Calif. Car body. 1,727,044; Sept. 3.
- Armstrong, Morgan K., Winnetka, Ill., assignor, by mesne assignments, to United States Gypsum Company. Plaster board. 1,701,291; Feb. 5.
- Armstrong, Oliver C., and J. R. Stephenson, Los Angeles, Calif. Combination ironing board and chair. 1,703,981; Mar. 5.
- Armstrong, Percy A. E., New York, N. Y. Rust, acid, and heat resisting ferrous alloy containing chromium and tantalum. 1,711,484; May 7.
- Armstrong, Percy A. E., Loudonville, assignor to Ludlum Steel Company, Watervliet, N. Y. Making hollow drill rods. 1,718,210; June 25.
- Armstrong, Ralph W. (See Sargent, F. C., and Armstrong.)
- Armstrong, Raymond W. (See McCabe, I. E., and Armstrong.)
- Armstrong, Raymond W., and I. E. McCabe, Chicago, Ill.; said Armstrong assignor to The Arcless Contact Company. Electric switch. 1,723,758; Aug. 6.
- Armstrong, Robert, Ridgefield, N. J., assignor of one-tenth to F. Breitenfeld, New York, N. Y. Tube-pulling device. 1,717,487; June 18.
- Armstrong, Robert B., et al. (See Armstrong, Robert B., assignor.)
- Armstrong, Robert B., assignor to R. B. Armstrong and R. & W. Hawthorn Leslie & Company Limited, Newcastle-on-Tyne, England. Steam superheater. 1,699,943; Jan. 22.
- Armstrong Siddeley Motors Limited. (See Viale, S. M., and Towns, assignors.)
- Armstrong, Theodore, et al. (See Armstrong, George E., assignor.)
- Armstrong, W. G., Whitworth Aircraft Limited. (See Wylie, Hamilton N., assignor.)
- Armstrong, Walter R., assignor of one-half to Franklin Mayo, Chicago, Ill. Mercury switch. 1,708,996; Apr. 16.
- Armstrong, William T., Burbank, Calif. Cotter key. 1,721,100; July 16.
- Arnald, Joseph J., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Rope-thrusting shovel. 1,721,761; July 23.
- Arndt, Ernest A., assignor to Kari-Keen Manufacturing Company, Sioux City, Iowa. Automobile trunk platform. 1,713,159; May 14.
- Arndt, Franklin E., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Steering gear for road graders. 1,700,015; Jan. 22.
- Arndt, Hermann, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Train-stop-control devices. 1,723,835; Aug. 6.
- Arndt, John P., and J. W. Lelivelt, jr., Cleveland, Ohio, assignors to J. W. Lelivelt, jr. Fuse. 1,724,868; Aug. 13.
- Arndt, Karl E., Berlin, Germany. Drying cigars and the like. 1,702,857; Feb. 19.
- Arndt, Peter, Los Angeles, Calif. Flying machine. 1,697,626; Jan. 1.
- Arndt, Peter, Los Angeles, Calif. Combination airship and aeroplane. 1,705,170; Mar. 12.
- Arndt, Theodor. (See Arnold, M., and Arndt.)
- Arnesen, Charlotte, Chicago, Ill. Speed-registering device. 1,737,400; Nov. 26.
- Arneson, Lawrence E., Morris, assignor to Morris Paper Mills, Chicago, Ill. Folded paper box. 1,711,823; May 7.
- Arnett, John W., Houston, Tex. Short-circuit arrester. 1,725,948; Aug. 27.
- Arnold, Arthur A. (See Sarfert, H., and Arnold.)
- Arnold, Carl, Nuremberg, Germany. Illuminated spinning top. 1,705,388; Mar. 12.
- Arnold, Charles B., assignor to Seymour & Peck Co., Chicago, Ill. Barrel. 1,698,487; Jan. 8.
- Arnold, Charles H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,722,990; Aug. 6.
- Arnold, Charles H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Clutch mechanism. 1,737,907; Dec. 3.
- Arnold, Clifton W., Houston, Tex. Display device. 1,736,567; Nov. 19.
- Arnold, Craig R., Dahlonega, Ga. Producing compositions containing mineral aggregates. 1,703,864; Mar. 5.
- Arnold, Daniel R., Lansdale, and W. E. Kulp, Pottstown, Pa. Soft-drink cooler. 1,698,466; Jan. 8.
- Arnold, Edwards, Naches, Wash. Grocery-store appliance. 1,708,407; Apr. 9.
- Arnold, Ernest H., Cleveland, Ohio. Forming metal wheels. 1,719,745; July 2.
- Arnold, Ernest H., Cleveland, Ohio. Metal-wheel manufacture. 1,739,495; Dec. 17.
- Arnold, Frederick G. (See Monteith, C. N., Arnold, and Minshall.)
- Arnold, George A., Newark, N. J., assignor to Goodell-Pratt Company, Greenfield, Mass. Lubricating bearing. 1,733,931. Oct. 29.
- Arnold, George A., East Orange, assignor to Motor Improvements, Inc., Newark, N. J. Filter. 1,741,672; Dec. 31.
- Arnold, George I., Lonaconing, Md. Henhouse door. 1,722,620; July 30.
- Arnold, Henry B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power-line signaling. 1,705,891; Mar. 19.
- Arnold, Henry B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier signal system. 1,717,083; June 11.
- Arnold, Jean F., Juvisy, France. Machine for the manufacture of screws. 1,731,036; Oct. 8.
- Arnold, Joseph W., Cape May, N. J. Rear-view mirror. 1,733,391; Oct. 29.
- Arnold, Leroy H., assignor of one-half to A. B. Bowman, San Diego, Calif. Washing-machine and laundry-tray drain apparatus. 1,698,667; Jan. 8.
- Arnold, Max, and T. Arndt, New York, N. Y. Portable bottle washer. 1,723,120; Aug. 6.
- Arnold, Robert S., assignor to York Heating and Ventilating Corporation, Philadelphia, Pa. Air heating and circulating unit. 1,697,627; Jan. 1.
- Arnold, Satterlee T., Irvington, N. J., assignor to The U. S. Mills Company, Bridgeport, Conn. Machine for sewing looped fabrics. 1,728,714; Sept. 17.
- Arnold, Satterlee T., Irvington, N. J., assignor to The W. S. Mills Company, Bridgeport, Conn. Raveler for looping machines. 1,728,715; Sept. 17.
- Arnou, Gabriel. (See Bauchère, A., and Arnou.)



- Arnoult, Roger J., Paris, France. Hood fastener. 1,740,325; Dec. 17.
- Arnstein, Walter, et al. (See Miller, Frank A., assignor.)
- Arnt, Herald P., Jackson, Mich. Hydraulic shock absorber. 1,708,560; Apr. 9.
- Arnt, Herald P., Jackson, Mich. Hydraulic shock absorber. 1,711,166; Apr. 30.
- Arnt, Herald P., Jackson, Mich. Shock absorber. 1,715,113; May 28.
- Arntzen, Gothard, Escanaba, Mich. Blue-print machine. 1,725,744; Aug. 27.
- Arocha, Armando, Chicago, Ill. Door hinge. 1,727,321; Sept. 10.
- Aron, William P., assignor to A. J. Urbish, Dallas, Tex. Holder for electric safety razors. 1,719,827; July 9.
- Arons, Isaac J., New York, N. Y. Signal for cooking utensils. 1,699,089; Jan. 15.
- Aronson, Louis S. (See Jacobson, Moses, assignor.)
- Aronson, Louis V., Newark, N. J. Sparking toy. 1,701,136; Feb. 5.
- Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc., Atomizer or similar device. Des. 79,006; July 23.
- Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc. Atomizer or similar device. Des. 79,007; July 23.
- Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc. Combined pyrophoric lighter and base. Des. 80,011; Dec. 3.
- Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc. Lighter or similar article. Des. 80,214; Dec. 31.
- Aronson, Peter R., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Projectile. 1,730,871; Oct. 8.
- Arpin, Edmund P., Jr., Port Edwards, Wis. Rotary refiner. 1,714,752; May 28.
- Arragg, George M., Lawrence, Mass. Electric stop motion for spinning machines. 1,735,102; Nov. 12.
- Arrick, Burton M., Chicago, Ill. Spectacle template. 1,719,957; July 9.
- Arrigo, Frank, Jr., and F. Sunseri, Los Angeles, Calif. Powder insufflator. 1,736,147; Nov. 19.
- Arrow Electric Company, The. (See Harrington, William H., assignor.)
- Arrow Electric Company, The. (See Nero, Arvid H., assignor.)
- Arrow-Hart & Hegeman Electric Company, The. (See Gates, Frederic P., assignor.)
- Arrow-Hart & Hegeman Electric Company, The. (See Grier, Edward B., assignor.)
- Arrow-Hart & Hegeman Electric Company, The. (See Nero, Arvid H., assignor.)
- Arrowhead Springs Beverage Co. (See Wood, Roy A., assignor.)
- Arrowood, Milton W., New York, N. Y. Apparatus for handling powdered fuel. Re17,427; Sept. 10.
- Arrowsmith, Thomas G., San Francisco, Calif. Gas burner. 1,723,988; Aug. 13.
- Arroyo, José M., Salaverry, Peru. Hydrobicycle. 1,740,216; Dec. 17.
- Arsem, William C., Schenectady, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of carbon monoxide. 1,719,867; July 9.
- Arsem, William C., Schenectady, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Apparatus for the production of carbon monoxide. 1,740,139; Dec. 17.
- Arsem, William C., Schenectady, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of formic acid. 1,740,140; Dec. 17.
- Arsem, William C., Schenectady, N. Y., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of formaldehyde. 1,740,141; Dec. 17.
- Artco Advertising, Inc. (See Colen, Arthur W., assignor.)
- Artercraft Silk Hosiery Mills, Inc. (See Hahn, Alfred M., assignor.)
- Artemas Ward, Inc. (See Giles, Harvey, assignor.)
- Arter, Jakob, Ober-Engstringen, Switzerland. Friction ball gearing. 1,718,846; June 25.
- Arthur, Beulah M., Los Angeles, Calif. Bouquet. Des. 79,415; Sept. 17.
- Arthur, Charles E., assignor to B. R. Dexter, Oakland, Calif. Revolving spice tray. 1,732,298; Oct. 22.
- Arthur, Paul, assignor to Frank Holton & Co., Elkhorn, Wis. Mouthpiece for musical wind instruments. 1,703,865; Mar. 5.
- Arthur, Philip E. (See Fickett, E. L., and Arthur.)
- Arthur, Richard S., New York, N. Y. Apparatus for recording and reproducing sound. 1,732,036; Oct. 15.
- Art In Buttons, Inc. (See Stanforth, Richard, assignor.)
- Artistic Brass & Bronze Works, Inc. (See Poritz, Frederick M., assignor.)
- Artlite, Inc. (See McGunnigle, Harold A., assignor.)
- Art Metal Construction Company. (See Anderson, G., and Gronberg, assignors.)
- Art Metal Construction Company. (See Anderson, G. L., and Bullen, assignors.)
- Art Metal Construction Company. (See Card, Earl J., assignor.)
- Art Metal Construction Company. (See Jones, James R., assignor.)
- Art Metal Construction Company. (See Larson, Algot J. E., assignor.)
- Art Metal Screen and Weather Strip Company. (See Shogren, Charles A., assignor.)
- Art Metal Works, Inc. (See Aronson, Louis V., assignor.)
- Art Specialty Company, The. (See Kaden, Harry E., assignor.)
- Arutunoff, Armais, Los Angeles, Calif. Motor protector. 1,701,468; Feb. 5.
- Arvey Corporation. (See Horwath, Julius, assignor.)
- Arvey Manufacturing Co., The. (See Hall, Richard E., assignor.)
- Arvey Manufacturing Co. (See Hawley, Jesse B., assignor.)
- Arvidson, Clarence G., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Sifter top. 1,737,548; Dec. 3.
- Arvidson, Olof W., Ashtabula, Ohio. Ornamental structure. 1,734,954; Nov. 12.
- Arzig, Paul, New York, N. Y. Butterfly toy. 1,708,823; Apr. 9.
- Arzt, Frank, and F. J. Fischer, Janesville, Wis. Heel accelerator for motor vehicles. 1,714,119; May 21.
- Asada, Tsunesaburo. (See Nagaoka, H., Asada, and Machida.)
- Asaturian, Setrak, New York, N. Y. Coupon booklet. 1,701,657; Feb. 12.
- Asbestos Fibre Spinning Company. (See Gerding, George W., assignor.)
- Asbestos Manufacturing Company. (See Evans, Richard J., assignor.)
- Asbestos Wood & Shingle Co. (See MacIldowie, John C., assignor.)
- Asbury, Dorsey F., Broomes Island, Md. Radio apparatus. 1,700,361; Jan. 29.
- Asbury, Dorsey F., Broomes Island, Md. Radio apparatus. 1,705,046; Mar. 12.
- Asbury, Dorsey F., Broomes Island, Md. Radio apparatus. 1,726,876; Sept. 3.
- Asbury, Ralph E., and R. A. Kennedy, Hamilton, Ohio. Autographic register. 1,705,148; Mar. 12.
- Asch, David. (See McCormick, Patrick, assignor.)
- Asche, Clyde C., Olivet, S. Dak. Pen and pencil holder. 1,727,189; Sept. 3.
- Aseltine, Fred E., assignor to General Motors Research Corporation, Dayton, Ohio. Oil-refining device. 1,705,041; Mar. 12.
- Aseltine, Fred E., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Charge-forming device for internal-combustion engines. 1,727,265; Sept. 3.
- Aseltine, Fred E., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Charge-forming device for internal-combustion engines. 1,727,266; Sept. 3.
- Ash Cabinet & Manufacturing Company, The. (See Hageman, Aloysius S., assignor.)
- Ash, Charles S., Royal Oak, Mich. Forming rims for wire wheels. 1,715,266; May 28.
- Ash, John J. (See Myers, S. A., and Ash.)
- Ash, Philip P. (See Ewing, R. H., and Ash.)
- Ashbaugh, John H. (See Maxwell, J. P., Bergvall, and Ashbaugh.)
- Ashbridge, Noel, Wanstead, England, assignor to Radio Corporation of America. Radioreceiver. 1,725,949; Aug. 27.
- Ashburn, James G., Winston-Salem, N. C. Game control. 1,714,839; May 28.
- Ashby, Cassius J., Evansville, Ind. Propelling coaster wagons and other vehicles. 1,735,685; Nov. 12.
- Ashcraft, Clarence S., Los Angeles, Calif. Arc lamp and maintaining a uniform length of arc. 1,721,845; July 23.
- Ashcraft, Ernest G., Los Angeles, Calif. Arc light. 1,727,361; Sept. 10.
- Ashe, Marselius T., Brooklyn, N. Y. Inclosure. 1,698,252; Jan. 8.
- Ashe, Marselius T., Chicago, Ill. Paper-vending machine. 1,702,925; Feb. 19.
- Ashe, William O., St. Louis Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Locomotive structure. 1,737,697; Dec. 3.
- Asher, Harry, London, England. Spring support for furniture. 1,724,892; Aug. 20.
- Asher, William J., Colorado Springs, Colo. Centrifugal extractor. 1,729,698; Oct. 1.
- Ashfield, Herbert, Brooklyn, N. Y. Fastener for bathroom corner fixtures. 1,703,090; Feb. 26.
- Ashkenas, Abraham, Brooklyn, N. Y. Resilient-clip bracket. 1,698,467; Jan. 8.
- Ashkenas, Abraham, Brooklyn, N. Y. Screen. 1,706,388; Mar. 26.
- Ashley, Alice E., executrix. (See Carr, W. M., and Ashley.)
- Ashley, Charles H., and L. H. Phillee, Los Angeles, Calif. Towel holding and dispensing cabinet. 1,706,949; Mar. 26.
- Ashley, Earl G., assignor to Nickey Brothers, Inc., Memphis, Tenn. Woodworking machine. 1,698,117; Jan. 8.
- Ashley, Edward E., Jr., Noroton, Conn., assignor to Walker Brothers, Philadelphia, Pa. Electrical wiring system. Re17,290; May 7.
- Ashley, Enoch J., assignor to Steele & Johnson Mfg. Co., Waterbury, Conn. Separable hose connector. 1,734,757; Nov. 5.
- Ashley, Frank M., Brooklyn, N. Y. Valve. 1,698,383; Jan. 8.
- Ashley, Frank M., Brooklyn, N. Y. Fountain pen. 1,698,384; Jan. 8.
- Ashley, Frank M., Brooklyn, N. Y. Fountain pen. 1,698,385; Jan. 8.



- Ashley, Frank M., Brooklyn, N. Y. Pipe for use with smoking tobacco. 1,708,531; Apr. 9.
- Ashley, Frank M., Brooklyn, N. Y. Fountain pen. 1,726,420; Aug. 27.
- Ashley, Frank M., New York, N. Y. Horn. 1,715,886; June 4.
- Ashley, Kenneth D. (See Buchanan, G. H., Barsky, and Ashley.)
- Ashley, Thomas J. (See Carr, W. M., and Ashley.)
- Ashman, David B., Baltimore, Md. Attaching loose pulleys. 1,712,064; May 7.
- Ashmun, Harry S. (See Titcomb, L. R., and Ashmun.)
- Ashton, Ernest, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing tool. 1,721,505; July 23.
- Ashton, Francis E., Chester, Pa., assignor to Aberfoyle Manufacturing Company, Chester, Pa. Shuttle. 1,729,413; Sept. 24.
- Ashton, Francis E., assignor to Aberfoyle Manufacturing Company, Chester, Pa. Loom. 1,736,029; Nov. 19.
- Ashton, Francis E., assignor to Aberfoyle Manufacturing Company, Chester, Pa. Shuttle. 1,736,030; Nov. 19.
- Ashton, Pearl F., assignor to E. E. Weller, Providence, R. I. Buckle. Des. 79,782; Nov. 5.
- Ashton, Ralph E., Arvada, Colo. Gear-shift-lever guide. 1,740,916; Dec. 24.
- Ashton, Richard A. (See Smith, E. R., and Ashton.)
- Ashton Valve Company, The. (See Motherwell, Joseph W., assignor.)
- Ashworth, Edward M., Toronto, Ontario, Canada. Electric meter. 1,726,331; Aug. 27.
- Ashworth, John W., New York, N. Y. Advertising and display device. 1,704,646; Mar. 5.
- Asire, Horace W., assignor to General Motors Research Corporation, Dayton, Ohio. Cold distribution manifold. 1,727,045; Sept. 3.
- Ask, George M., San Jose, Calif. Water elevator. 1,700,662; Jan. 29.
- Askania-Werke A.-G. vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau. (See Friess, Hans, assignor.)
- Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau. (See Wunsch, Erich P. G., assignor.)
- Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau. (See Wunsch, Guido, assignor.)
- Aske, John O., Brooklyn, N. Y. Hone box. 1,708,006; Apr. 9.
- Askew Saddlery Co., The. (See Smith, Dearcy A., assignor.)
- Askin, Morris W., Washington, D. C. Animal trap. 1,714,068; May 21.
- Askren, Isaac M., Phoenix, Ariz. Wheelbarrow. 1,701,486; Feb. 5.
- Askwig, John C. (See Watkins, H. A., and Askwig.)
- Aslakson, Baxter M., Chicago, Ill. Fuel pump and distributor. 1,739,747; Dec. 17.
- Asleson, Hans J., Minneapolis, Minn. Truss. 1,710,081; Apr. 23.
- Asmussen, Peter, Seattle, Wash. Power-transmission mechanism. 1,697,628; Jan. 1.
- Aspden, Ralph L., Chorley, England. Sparking plug suitable for internal-combustion engines. 1,704,781; Mar. 12.
- Aspden, Ralph L., Chorley, England. Electric starter for internal-combustion engines. 1,734,955; Nov. 12.
- Aspenwall, Charles O., Hubbard Woods, Ill., assignor to International Harvester Company. Tractor hitch. 1,721,682; July 23.
- Asper, Albert C., Kansas City, Kans. Work-holding apparatus. 1,698,982; Jan. 15.
- Asper, Lewis, Minneapolis, Minn. Storm-sash holder. 1,701,658; Feb. 12.
- Aspgren, Oscar, Amarillo, Tex. Pipe. 1,704,584; Mar. 5.
- Asphaltcon Concrete Corporation. (See Lundin, Andreas P., assignor.)
- Aspinook Company, The. (See Church, Kenneth B., assignor.)
- Aspinwall, Louis M. (See Storer, N. W., Candee, and Aspinwall.)
- Aspinwall, Louis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,710,762; Apr. 30.
- Asplund, Vio A., Minot, N. Dak. Well fishing tool. 1,717,300; June 11.
- Asquith, Stead A., Los Angeles, Calif. Metal-working machine. 1,740,721; Dec. 24.
- Asselin, John A., des Cedres, Quebec, Canada. Raincoat. 1,720,114; July 9.
- Associated Apparel Industries. (See Cunningham, Katharine E., assignor.)
- Associated Attleboro Manufacturers, Inc., The. (See Walenthin, Walfrid, assignor.)
- Associated Electrical Industries Limited. (See Brown, Walter J., assignor.)
- Associated Electrical Industries Limited. (See Brown, W. J., and Robinson, assignors.)
- Associated Electrical Industries Limited. (See Robinson, Ernest Y., assignor.)
- Associated Electrical Industries Limited. (See Scanes, Arthur E. L., assignor.)
- Associated Engineers Company. (See Gustin, Clyde F., assignor.)
- Associated Factories Corporation. (See Randall, La Baume E., assignor.)
- Associated Lead Manufacturers Limited. (See Waring, Horace, assignor.)
- Associated Merchandising Corporation. (See Rudderham, Charles G., assignor.)
- Associated Oil Company. (See Ibrig, Harry K., assignor.)
- Associated Telephone and Telegraph Company. (See Passmore, William O., assignor.)
- Associated Telephone and Telegraph Company. (See Passmore, W. O., and Beale, assignors.)
- Associated Telephone and Telegraph Company. (See Simpson, Lancelot M., assignor.)
- Associated Telephone & Telegraph Company. (See Taylor, Reginald, assignor.)
- Associated Telephone and Telegraph Company. (See Tench, Frank, assignor.)
- Ast, Michael L., Chicago, Ill. Cutting machine used chiefly for cutting cheese. 1,704,682; Mar. 5.
- Ast, Michael L., Chicago, Ill. Cheese cutting machine. 1,741,753; Dec. 31.
- Aston, George, Chicago, Ill. Typographic pen. 1,724,064; Aug. 13.
- Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, Inc., New York, N. Y. Hot-metal car. 1,708,007; Apr. 9.
- Astruc, Jean G. V., Castres, France. Reclining armchair. 1,704,585; Mar. 5.
- Ateliers de Constructions Electriques de Charleroi. (See Cogneau, Leopold, assignor.)
- Ateliers de Constructions Electriques de Charleroi Societe Anonyme. (See Huet, Albert, assignor.)
- Aten, Marion H., El Centro, Calif. Braking device for aircraft. 1,731,735; Oct. 15.
- Atha, Charles G., Biggar, assignor to Stewarts & Lloyds Limited, Glasgow, Scotland. Lining of iron and steel pipes, tubes, and other hollow bodies. 1,737,446; Nov. 26.
- Atherton, Alfred L., Penn Township, Allegheny County, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning arrester. 1,714,255; May 21.
- Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer system. 1,729,091; Sept. 24.
- Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of transmission. 1,731,367; Oct. 15.
- Athey, Isaac H., Chicago, Ill. Cane harvester. 1,741,602; Dec. 31.
- Athey, Isaac H., and A. R. Schwarzkopf, assignors to Athey Truss Wheel Co., Chicago, Ill. Vehicle. 1,725,242; Aug. 20.
- Athey, Richard H., assignor of one-third to J. Cahen and one-third to S. Levi, San Francisco, Calif. Folding camp house. 1,721,198; July 16.
- Athey Truss Wheel Co. (See Athey, I. H., and Schwarzkopf, assignors.)
- Athimon, Francis, Paris, France. Vehicle brake. 1,727,741; Sept. 10.
- Athimon, Francis, Paris, France. Servo brake. 1,727,742; Sept. 10.
- Athol Manufacturing Company. (See Alling, Guy E., assignor.)
- Atkeson, Walter R., Tacoma, Wash. Internal-combustion engine. 1,707,779; Apr. 2.
- Atkins, E. C., & Company. (See Chapin, William R., assignor.)
- Atkins, George S., Scranton, Pa. Conveyer. 1,708,559; Apr. 9.
- Atkinson, Dina M., Fitchburg, Mass. Toy. 1,709,703; Apr. 16.
- Atkinson, Edward M., Vancouver, Wash. Detachable brace for rotating implement handles. 1,711,916; May 7.
- Atkinson, John L., Atlanta, Ga. Mechanical gear shift. 1,715,734; June 4.
- Atkinson, Robert W., Rocky River, Ohio. Vending cold cream and the like. 1,724,165; Aug. 13.
- Atkinson, Truman L., Ludington, Mich. Embroidery hoop. 1,740,142; Dec. 17.
- Atkinson, Walter V., Berkeley, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Manufacturing lubricating grease. 1,736,302; Nov. 19.
- Atlanta Casket Company. (See Carlson, John E., assignor.)
- Atlantic Bank and Trust Co., administrator. (See Thacker, William L.)
- Atlantic Coast Fisheries Company, The. (See Taylor, Harden E., assignor.)
- Atlantic Elevator Company. (See Higbee, Ray P., assignor.)
- Atlantic Gypsum Products Company. (See Raynes, Harry C., assignor.)
- Atlantic Precision Company. (See Bone, Herbert L., assignor.)
- Atlantic Precision Instrument Company. (See Allen, Albert, assignor.)
- Atlantic Refining Company, The. (See Chillas, Richard B., Jr., assignor.)
- Atlantic Refining Company, The. (See Ehlers, Carl H., assignor.)
- Atlantic Refining Company, The. (See Peterkin, A. G., Jr., Stroud, and Chillas, assignors.)
- Atlantic Service Company. (See Laemmel, Charles A., assignor.)



- Atlantic Stamping Company. (See Dowling, Martin J., assignor.)
- Atlas Bolt & Screw Company, The. (See Schellentrager, Eugene W., assignor.)
- Atlas Bolt & Screw Company, The. (See Schellentrager, E. W., and Kidd, assignors.)
- Atlas Bolt & Screw Company, The. (See Weaver, Elverton W., assignor.)
- Atlas Collapsible Tube Co. (See Horak, Jaroslav, assignor.)
- Atlas Powder Company. (See Creighton, Henry J., assignor.)
- Atlas Powder Company. (See Large, Sylvester B., assignor.)
- Atlas Tack Corporation. (See Christophel, Lewis W., assignor.)
- Atlas Tack Corporation. (See Evans, H. A., and Jacques, assignors.)
- Atlas Tack Corporation. (See Jacques, George W., assignor.)
- Atlas-Werke Aktiengesellschaft. (See Kunze, Willy, assignor.)
- Atmospheric Nitrogen Corporation. (See Bramwell, Francis H., assignor.)
- Atmospheric Nitrogen Corporation. (See de Jahn, Fredrik W., assignor.)
- Atmospheric Nitrogen Corporation. (See Dely, Joseph G., assignor.)
- Atmospheric Nitrogen Corporation. (See Kniskern, Walter H., assignor.)
- Atanasio, Giuseppe, Brooklyn, N. Y. Exercising device. 1,716,678; June 11.
- Attendu, André C., Montreal, Quebec, Canada. Fuel feed for Diesel-type internal-combustion engines. 1,698,356; Jan. 8.
- Attendu, André C., Montreal, Quebec, Canada. Internal-combustion engine. 1,729,201; Sept. 24.
- Attendu, André C., Montreal, Quebec, Canada. Fuel injector. 1,735,718; Nov. 12.
- Attendu, André C., Montreal, Quebec, Canada. Fuel pump. 1,736,242; Nov. 19.
- Attwood, Charles E., Wollaston, assignor to Postindex Company, Inc., Boston, Mass. Paper file. 1,739,202; Dec. 10.
- Atwater, Harry A., assignor to Combustion Equipment Company, Kansas City, Mo. Flue-gas-recirculating system for cracking-still operations. 1,709,764; Apr. 16.
- Atwater Kent Manufacturing Company. (See Da Costa, Robert C., assignor.)
- Atwater Kent Manufacturing Company. (See Fenton, Almon N., assignor.)
- Atwater Kent Manufacturing Company (See Greswold, Forrest E., assignor.)
- Atwell, Harold V., assignor to Standard Oil Company, Whiting, Ind. Prevention of evaporation losses. 1,700,362; Jan. 29.
- Atwell, Harold V., assignor to Standard Oil Company, Whiting, Ind. Prevention of loss by evaporation. 1,715,112; May 28.
- Atwell, William J., and E. W. Kinzer, Boissevain, Va.; said Atwell assignor to said Kinzer. Cage trap. 1,722,321; July 30.
- Atwell, William J., and E. W. Kinzer, Boissevain, Va.; said Atwell assignor to said Kinzer. Drowning trap. 1,730,963; Oct. 8.
- Atwood, Arthur C., Middleboro, Mass. Cranberry-picking and vine-training scoop. 1,725,843; Aug. 27.
- Atwood, George D., Brooklyn, N. Y. Spool. 1,731,219; Oct. 8.
- Atwood, James T., Rockford, Ill. Towrope. 1,699,268; Jan. 15.
- Atwood, Leonard, Farmington, Me., assignor to National High Pressure Hose Co., Boston, Mass. Cord-forming apparatus. 1,742,172; Dec. 31.
- Atwood, Max W., assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Throat block. 1,706,132; Mar. 19.
- Atwood Vacuum Machine Company, The. (See Kenyon, William C., assignor.)
- Atzberger, Frank X., Ridgefield, N. J. Internal-combustion engine. 1,721,846; July 23.
- Atzenhoffer, Arthur H., Chicago, Ill. Weather strip. 1,704,997; Mar. 12.
- Atzenhoffer, Arthur H., Chicago, Ill. Weather strip. 1,704,998; Mar. 12.
- Atzert, Joseph A., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Separator foot. 1,737,401; Nov. 26.
- Au, Carl H., assignor to J. K. Hoyt, Washington, D. C. Current meter. 1,704,162; Mar. 5.
- Aubert, Robert G., Paris, France. Preventing explosions in liquid-air apparatus. 1,717,540; June 18.
- Aubin, Percy A., St. Aubin's, Jersey, Channel Islands. Tenon saw. 1,729,092; Sept. 24.
- Auburn, Hubert. (See Griffin, M., and Auburn.)
- Auchincloss, William K., assignor to American Car and Foundry Company, New York, N. Y. Locking device for tank-dome covers. 1,706,051; Mar. 19.
- Auchincloss, William K., assignor to American Car and Foundry Company, New York, N. Y. Heating chamber for discharge-outlet casings for tank cars. 1,706,052; Mar. 19.
- Auckland, Henry, Seattle, Wash. Gauge. 1,713,160; May 14.
- Aud Company, The. (See Aud, Thomas E., assignor.)
- Aud, David M., et al. (See Aud, William S., assignor.)
- Aud, Jennie A., et al. (See Aud, William S., assignor.)
- Aud, Jessie V., et al. (See Aud, William S., assignor.)
- Aud, Thomas E., Herndon, Va. Closure for containers. 1,703,712; Feb. 26.
- Aud, Thomas E., Herndon, Va. Light deflector for headlights. 1,708,561; Apr. 9.
- Aud, Thomas E., Herndon, assignor to The Aud Company, Incorporated, Leesburg, Va. Life-saving suit. 1,706,097; Mar. 19.
- Aud, William S., Herndon, assignor of one-sixth to J. A. Aud, one-sixth to D. M. Aud, one-sixth to M. A. Hutchison, one-sixth to J. V. Aud, and one-sixth to J. L. Curcie, South Boston, Va. Life-saving suit. 1,705,888; Mar. 19.
- Audet, Alfred, Salem, Mass. Necktie holder. 1,737,632; Dec. 3.
- Audibert, Maurice, Villeurbanne, France. Micrometric screw-cutting machine. 1,735,666; Nov. 12.
- Audibert, Stephen R., assignor of one-half to D. A. Coury, Fort Kent, Me. Bit socket. 1,723,717; Aug. 6.
- Audino, Joseph, East Brady, Pa. Carburetor. 1,715,183; May 28.
- Audino, Joseph, East Brady, Pa. Carburetor. 1,715,184; May 28.
- Auditorium Ventilating Corporation. (See Fleisher, Walter L., assignor.)
- Auditorium Ventilating Corporation. (See Lewis, Leo L., assignor.)
- Audrieth, Ludwig A., Union, N. J. Drafting compass. 1,734,958; Nov. 12.
- Audubert, Rene, Paris, France. Filtering system. 1,723,997; Aug. 13.
- Auel, Carl B., Irwin, Pa. Safety device. 1,709,765; Apr. 16.
- Auer, Gustavus, jr., Philadelphia, Pa. Football visimeter. 1,706,646; Mar. 26.
- Auerbach, Karl, Saalfeld-on-the-Saale, Germany, assignor to H. F. Hoewel, New York, N. Y. Machine for upsetting and like operations. 1,739,276; Dec. 10.
- Auerbach, Rudolf, Probstdeuben, near Leipzig, Germany, assignor to Chromeplate, Inc., Union City, N. J. Electrolytic deposition of chromium. 1,705,954; Mar. 19.
- Auerbach, Rudolf, Probstdeuben, near Leipzig, Germany, assignor, by mesne assignments, to Chromeplate, Inc., Union City, N. J. Electrodeposition of chromium. 1,730,349; Oct. 8.
- Auerhahn, Albert. (See Eisenhut, A., and Auerhahn.)
- Aufiero, Emanuel, Brooklyn, N. Y. Warning signal. 1,716,510; June 11.
- Augello, Joseph. (See Castellano, P., and Augello.)
- Augenstein, Henry, Newark, N. J. Pencil. 1,729,240; Sept. 24.
- Augenstein, Karl C. (See Speidel, E. F., and Augenstein.)
- Augenstein, Karl C. (See Speidel, E. F. M., and Augenstein.)
- Augenstein, Karl C., Cranston, assignor to E. F. M. Speidel, Edgewood, R. I. Strap fastener. 1,700,992; Feb. 5.
- Augenstein, Karl C., Cranston, assignor to Automatic Gold Chain Co., Providence, R. I. Band chain. 1,740,885; Dec. 24.
- Auger, Joseph T., assignor of one-third to E. O. Voyer and one-third to R. H. Monahan, Minneapolis, Minn. Sheet material for construction purposes. 1,714,204; May 21.
- Augustine Holding S. A. (See Matti, Jean, assignor.)
- Augsbury, Wellington R., and A. Rubrecht, Granville, N. Y. Headlight-control mechanism. 1,714,653; May 28.
- August, Johannes R. C. (See Hunter, Edgar K., assignor.)
- August, Johannes R. C. (See Hunter, E. K., and August.)
- August, Maurice J., Philadelphia, Pa. Auxiliary driving attachment for vehicles. 1,740,056; Dec. 17.
- Augustin, Edwin J., and C. E. Gronlund, assignors to G. A. Ball, Minneapolis, Minn. Vending machine. 1,700,873; Feb. 5.
- Augustine Automatic Rotary Engine Company. (See Augustine, Benjamin F., assignor.)
- Augustine, Benjamin F., assignor to Augustine Automatic Rotary Engine Company, Buffalo, N. Y. Gas engine. 1,732,147; Oct. 15.
- Aulbach, Charles J., Passaic, N. J., assignor, by mesne assignments, to Continental Can Company, New York, N. Y. Container. 1,718,022; June 18.
- Auld, D. L., Company, The. (See Auld, Frederick H., assignor.)
- Auld, Frederick H., Columbus, Ohio. Building structure. 1,708,351; Apr. 9.
- Auld, Frederick H., and O. S. Marckworth, Columbus, Ohio. Inlaid work. 1,706,766; Mar. 26.
- Auld, Frederick H., assignor to The D. L. Auld Company, Columbus, Ohio. Inlaid work. 1,699,559; Jan. 22.
- Auld, John, Chicago, Ill. Fountain brush. 1,727,023; Sept. 3.
- Auld, Samuel J. M., A. E. Dunstan, and P. H. Herring, Sunbury-on-Thames, assignors to Anglo-Persian Oil Company, Limited, London, England. Apparatus for the treatment of liquid hydrocarbons. 1,711,219; Apr. 30.
- Aull, Wilson, jr., New York, and H. W. Houck, East Orange, N. J., assignors to Radio Inventions, Inc., New York, N. Y. Variable tuning inductance device. 1,719,161; July 2.
- Aulmann, William G., Los Angeles, Calif. Lead clutch for mechanical pencils. 1,736,568; Nov. 19.



- Ault, Horace B., Morristown, Tenn. Nonglare shield for headlights. 1,739,626; Dec. 17.
- Ault & Wiborg Company of New York, The. (See McLeod, Earl H., assignor.)
- Aumack, Raymond L., Roselle, N. J. Detachable shoe for brake drums. 1,730,492; Oct. 8.
- Aumack, Raymond L., Roselle, N. J. Coupling. 1,736,818; Nov. 26.
- Aumeteyer, Alfred, and F. Piazzoli, Paris, France. Engine piston. 1,727,190; Sept. 3.
- Aupperle, James A. (See Beck, W. J., and Aupperle.)
- Aurada, Edward A. (See Bumstead, W. D., and Aurada.)
- Aurand, Kelton, Manufacturing Co. (See Harris, Albert L., assignor.)
- Aurora Beacon Corporation. (See Price, William E., assignor.)
- Aurora Corset Company. (See Mead, Larkin J., assignor.)
- Aurora Metal Company. (See Le May, John, assignor.)
- Aurora X-Ray Mfg. Co. (See Humphreys, Edwin S., assignor.)
- Aurynger, John J., Takoma Park, Md. Static condenser. 1,697,258; Jan. 1.
- Aurynger, John J., Brooklyn, N. Y. Radio condenser. 1,735,416; Nov. 12.
- Auster, Louis. (See Auster, Marie and L.)
- Auster, Louis and M., New York, N. Y. Shower-curtain ring. 1,739,382; Dec. 10.
- Auster, Marie. (See Auster, Louis and M.)
- Auster, Marie and L., New York, N. Y. Garter and making same. 1,728,912; Sept. 24.
- Austermann, Josef B., Tilpanas, Garoet, Dutch East Indies. Horseshoe. 1,716,410; June 11.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Raising the flash-oven voltage of bushing insulators. 1,699,342; Jan. 15.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. High-tension-insulator construction. 1,702,236; Feb. 12.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Manufacturing insulator pins. 1,702,237; Feb. 12.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator and fitting therefor. 1,702,238; Feb. 12.
- Austin, Arthur O., near Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Connector fitting for insulators. 1,709,825; Apr. 23.
- Austin, Arthur O., near Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Diverting energy from high-potential conductors. 1,709,826; Apr. 23.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. 1,715,888; June 4.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. 1,715,889; June 4.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Apparatus for testing the dielectric strength of insulating material. 1,721,847; July 23.
- Austin, Arthur O., near Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Diverting energy from conductors. 1,723,000; Aug. 6.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Connecting means for cables or the like. 1,723,836; Aug. 6.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Disconnecting switch. 1,723,837; Aug. 6.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator bushing and means for supporting cores or baffles therein. 1,726,095; Aug. 27.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Supporting baffles in oil-filled bushings. 1,726,096; Aug. 27.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator bushing. 1,726,097; Aug. 27.
- Austin, Arthur O., near Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Current transformer for high-voltage bushings. 1,728,170; Sept. 17.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Conductor terminal for bushings. 1,728,952; Sept. 24.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator fitting. 1,728,953; Sept. 24.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Conductor terminal for bushings. 1,730,715; Oct. 8.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. High-potential fuse. 1,730,716; Oct. 8.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator for withstanding fog conditions. 1,735,560; Nov. 12.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Fitting for insulators. 1,735,561; Nov. 12.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Controlling surface resistance of insulators. 1,735,829; Nov. 12.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. 1,737,749; Dec. 3.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Yielding joint for insulators and the like. 1,740,638; Dec. 24.
- Austin, Arthur O., near Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Coating and heat treating. 1,740,639; Dec. 24.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Electric switch. 1,740,640; Dec. 24.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Pole top pin for multiple construction. 1,740,641; Dec. 24.
- Austin, Arthur O., Barborton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. 1,740,642; Dec. 24.
- Austin, Bascom O., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,705,700; Mar. 19.
- Austin, Clarence G., assignor of one-half to H. J. Lingenfelter, Woodstock, Ill. Toy. 1,722,515; July 30.
- Austin, Clarence W., et al. (See Schmitz, Fred A., assignor.)
- Austin, Dwight E., Los Angeles, Calif. Antisplash device for drinking cups and the like. 1,739,627; Dec. 17.
- Austin, Edward, Schenectady, N. Y., assignor to General Electric Company. Control system. 1,716,752; June 11.
- Austin, George, Kansas City, Mo. Well screen. 1,705,848; Mar. 19.
- Austin, George H., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Making fulcrums. 1,708,251; Apr. 9.
- Austin, Herbert, Bromsgrove, England. Steering-gear check. 1,716,411; June 11.
- Austin, Louis W., Washington, D. C. Electrical circuits. 1,704,071; Mar. 5.
- Austin Machinery Corporation. (See Knauer, Carroll H., assignor.)
- Austin Manufacturing Co. (See Davis, F. S., and Burns, assignors.)
- Austin Manufacturing Co. (See Wilson, Fred D., assignor.)
- Austin, Merton L., Spokane, Wash. Stand-boiler support. 1,713,685; May 21.
- Austin, Miner M. (See Engle, E. W., and Austin.)
- Austin, Ralph W., Quincy, Mass. Fire extinguisher. 1,714,539; May 28.
- Austin, Ralph W., Quincy, Mass. Fire-extinguishing liquid. 1,716,476; June 11.
- Austin, Ralph W., Weymouth, Mass. Fire extinguisher. 1,729,321; Sept. 24.
- Austin, Virgil H., Hannibal, Mo. Waybill. 1,702,026; Feb. 12.
- Austin, Walter M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resistance shunt-circuit breaker. 1,705,701; Mar. 19.
- Austin, Walter M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit breaker. 1,734,190; Nov. 5.
- Austin, Wilson. (See Bailey, F. T., and Austin.)
- Austral Window Company. (See Myers, Winter W., assignor.)
- Australasian Machines Proprietary Limited. (See Totenhams, A. T., and Ridley, assignors.)
- Auteri, Michele, Milan, Italy, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Coin-box station. 1,737,554; Dec. 3.
- Auto Brakeometer Corporation. (See McKinney, F. B., and Allen, assignors.)
- Autodex Co. (See Nevin, Donald A., assignor.)
- Auto Fabrics Products, Inc. (See Osten, Joseph W., assignor.)
- Autographic Register Company. (See Borchers, William G., assignor.)
- Autographic Register Company. (See Carroll, Hezekiah W., Jr., assignor.)
- Autographic Register Co. (See Oliver, Walter E., assignor.)
- Auto Loading Device Manufacturing Company. (See Federman, George C., assignor.)
- Automat Molding & Folding Company, The. (See Aldrich, J. P., and Morris, assignors.)
- Automatic Advertiser, Inc., The. (See Proctor, Barton A., assignor.)
- Automatic Assorting Machine Company. (See Sousa, John R., assignor.)
- Automatic Ballast Spreader Corporation. (See Straw, Bernard W., assignor.)
- Automatic Car Coupler Trust. (See Gage, C. H., and Searles.)

- Automatic Car Stop Corporation. (See Schauman, Bror M., assignor.)  
 Automatic Car Stop Corporation. (See Schauman, B. M., and Milligan, assignors.)  
 Automatic Clutch & Machine Co. (See Lake, David, assignor.)  
 Automatic Door and Equipment Co. (See Allen, Walter E., Jr., assignor.)  
 Automatic Electric Boiler Co. (See Rochester, Richmond, Jr., assignor.)  
 Automatic Electric Inc. (See Aitken, William, assignor.)  
 Automatic Electric Inc. (See Andres, Paul G., assignor.)  
 Automatic Electric Inc. (See Bellamy, John I., assignor.)  
 Automatic Electric Inc. (See Bellamy, J. I., and Richardson, assignors.)  
 Automatic Electric Inc. (See Blessing, John G., assignor.)  
 Automatic Electric Inc. (See Erickson, John, assignor.)  
 Automatic Electric Inc. (See Gardner, John E., assignor.)  
 Automatic Electric Inc. (See Gillings, Charles, assignor.)  
 Automatic Electric Inc. (See Gillings, C., and Passmore, assignors.)  
 Automatic Electric Inc. (See Gohorel, F., and Stewart, assignors.)  
 Automatic Electric Inc. (See Harbecke, Herman H., assignor.)  
 Automatic Electric Inc. (See Hudd, Alfred E., assignor.)  
 Automatic Electric Inc. (See Jacobsen, Emil, assignor.)  
 Automatic Electric Inc. (See Lomax, Clarence E., assignor.)  
 Automatic Electric Inc. (See Mercer, Richard, assignor.)  
 Automatic Electric Inc. (See Mercer, R., and Tench, assignors.)  
 Automatic Electric Inc. (See Nelson, Martin L., assignor.)  
 Automatic Electric Inc. (See Nixon, Joseph, assignor.)  
 Automatic Electric Inc. (See Obergfell, Herbert F., assignor.)  
 Automatic Electric Inc. (See Ostline, John E., assignor.)  
 Automatic Electric Inc. (See Ostline, J. E., and Edmunds, assignors.)  
 Automatic Electric Inc. (See Parshall, Harry R., assignor.)  
 Automatic Electric Inc. (See Passmore, William O., assignor.)  
 Automatic Electric Inc. (See Pye, Harold C., assignor.)  
 Automatic Electric Inc. (See Ray, Arthur J., assignor.)  
 Automatic Electric, Inc. (See Ray, A. J., and Stehlik, assignors.)  
 Automatic Electric Inc. (See Raymond, Ralph L., assignor.)  
 Automatic Electric Inc. (See Richardson, R. G., and Bellamy, assignors.)  
 Automatic Electric Inc. (See Richardson, R. G., and Gardner, assignors.)  
 Automatic Electric Inc. (See Richardson, R. G., and Nelson, assignors.)  
 Automatic Electric Inc. (See Ruggles, Leonard L., assignor.)  
 Automatic Electric Inc. (See Schwartz, Michael, assignor.)  
 Automatic Electric Inc. (See Sengebusch, Hans, assignor.)  
 Automatic Electric Inc. (See Stehlik, Rudolph F., assignor.)  
 Automatic Electric Inc. (See Stewart, C., and Gohorel, assignors.)  
 Automatic Electric Inc. (See Tench, Frank, assignor.)  
 Automatic Electric Inc. (See Sharp, Victor S., assignor.)  
 Automatic Electric Inc. (See Voss, John H., assignor.)  
 Automatic Electric Inc. (See Wicks, John, assignor.)  
 Automatic Electric Inc. (See Willis, Bernard D., assignor.)  
 Automatic File & Index Co. (See Straubel, Frederick L. G., assignor.)  
 Automatic File & Index Co., The. (See Straubel, Frederick L. G., assignor.)  
 Automatic Film Machine Corporation. (See McLaughlin, W. F., and Swing, assignors.)  
 Automatic Floor Waxing Machine Corporation. (See Johnson, Gustaf L., assignor.)  
 Automatic Freezer Corporation. (See Loranger, H. R., assignor, and Parshall.)  
 Automatic Gold Chain Co. (See Augenstein, Karl C., assignor.)  
 Automatic Lighter Corporation. (See Girtanner, Alexander, assignor.)  
 Automatic Merchandising Corporation of America. (See Schermack, Joseph J., assignor.)  
 Automatic Nut-Thread Corporation. (See Spies, Peter H. F., assignor.)  
 Automatic Pencil Vending Machine Corporation. (See Lowry, Samuel D., assignor.)  
 Automatic Pistols, Inc. (See Young, Franklin K., assignor.)  
 Automatic Printing Devices Co. (See Berndt, R. F., and Halloran, assignors.)  
 Automatic Reclosing Circuit Breaker Company, The. (See Raney, Estell C., assignor.)  
 Automatic Recording Safe Company. (See Fisher, Charles assignor.)  
 Automatic Retailing Corporation. (See Stevenson, Joseph H., assignor.)  
 Automatic Safety Control Inc. (See Kropenicki, J., and Zielinski, assignors.)  
 Automatic Signal Company. (See Ranning, Carl A., assignor.)  
 Automatic Specialties Co. (See Moss, V. G., and Taylor, assignors.)  
 Automatic Sprinkler Company of America. (See Lowe, Ernest A., assignor.)  
 Automatic Sprinkler Company of America. (See Lowe, E. A., and Hamilton, assignors.)  
 Automatic Telephone Manufacturing Company Limited. (See Harrison, H. H., and Smith, assignors.)  
 Automatic Ticket Register Corporation. (See Helsel, Reuben H., assignor.)  
 Automatic Transmission Company. (See Coleman, George B., assignor.)  
 Automatic Transmission Company. (See Lyman, Kenneth E., assignor.)  
 Automatic Transmission Company. (See Lyman, K. E., and Lane, assignors.)  
 Automatic Transmission Company. (See Lyman, K. E., and McMullen, assignors.)  
 Automatic Transmission Company. (See Lyman, K. E., McMullen, and Lane, assignors.)  
 Automatic Transmission Company. (See McMullen, Roger B., Jr., assignor.)  
 Automatic Transportation Company, The. (See Carr, William C., assignor.)  
 Automatic Washer Company. (See Cammack, Clifton C., assignor.)  
 Automatic Washer Company. (See Nelson, John, assignor.)  
 Automatic Washer Company. (See Schroeder, Simon E., assignor.)  
 Auto-Meter Company. (See Huggins, Merion J., assignor.)  
 Auto-Meter Co. Inc. (See Titcomb, Lee R., assignor.)  
 Automobilwerke H., Büssing Aktiengesellschaft. (See Staniewicz, Willy, assignor.)  
 Automotive Elevator Corporation, The. (See Rood, Charles W., assignor.)  
 Automotive Engineering Company Limited, The. (See Lewis, Eric C., assignor.)  
 Automotive Fan & Bearing Company. (See Funk, Truman B., assignor.)  
 Automotive Maintenance Machinery Co. (See Wacker, F. G., and Zimmerman, assignors.)  
 Automotive Patent Holding Company. (See Ahlm, Charles E. F., assignor.)  
 Automotive Products Co. (See Hersey, Arthur J., assignor.)  
 Automotive Royalties Corporation, Inc. (See Jonsson, Sven M., assignor.)  
 Automotive Standards, Inc. (See Howarth, J. F., and Goldsmith, assignors.)  
 Automotive Valves Co., The. (See Burtnett, Everett R., assignor.)  
 Automotive Valves Corporation, The. (See Burtnett, Everett R., assignor.)  
 Auto Pneumatic Action Company. (See La Jole, Hubert J., assignor.)  
 Autopoint Company. (See Deli, Frank C., assignor.)  
 Autopoint Company. (See Deli, F. C., and Groseclose, assignors.)  
 Autopoint Company. (See Vierling, F. J., and Bartholomew, assignors.)  
 Auto Research Corporation. (See Bijur, Joseph, assignor.)  
 Autosales Corporation. (See Brandt, John, assignor.)  
 Autoshift Corporation. (See Savrda, Charles M., assignor.)  
 Auto Specialties Manufacturing Company. (See Lucker, Millard B., assignor.)  
 Autostrop Patents Corporation. (See Galsman, Henry J., assignor.)  
 Autostrop Patents Corporation. (See Galsman, H. J., and Schumacher, assignors.)  
 Autostrop Patents Corporation. (See Schumacher, Conrad, assignor.)  
 Auto Strop Safety Razor Co. Inc. (See Schumacher, Conrad, assignor.)  
 Auto Truck Equipment Company. (See Styslinger, Leo J., assignor.)  
 Autrey, Ernest J., Los Angeles, Calif., assignor, by mesne assignments, of one-half to R. M. Simmons. Heat exchanger. 1,722,883; July 30.  
 Autrey, Ernest J., assignor, by direct and mesne assignments, of one-half to R. M. Simmons, Los Angeles, Calif. Liquid distribution. 1,722,884; July 30.  
 Auvil, Daniel M., Ryderwood, Wash. Saw-supporting device. 1,721,199; July 16.  
 Avakian, John C., Los Angeles, Calif. Wave conservator. 1,716,751; June 11.  
 Avato, John, Norwood, N. J. Combined light-projecting and finding apparatus. 1,724,869; Aug. 13.  
 Aven, Karl L., assignor of one-third to J. Hartmann, Blumfield Township, Saginaw County, Mich. Bean harvester. 1,727,802; Sept. 10.  
 Aven, Thomas W., assignor to The Murray Company, Dallas, Tex. Change-speed gear for cotton cleaners. 1,732,550; Oct. 22.  
 Averill, Earl A., Mount Vernon, N. Y., and J. F. Griffin, Teaneck, N. J., assignors to The Superheater Company, New York, N. Y. Pipe connection. 1,706,131; Mar. 19.  
 Averill, Maxine, New York, N. Y. Stuffed toy animal. Des. 77,386; Jan. 8.  
 Averill, Maxine, New York, N. Y. Doll. Des. 78,324; Apr. 23.  
 Averill, William H., assignor to Joseph Pollak Tool and Stamping Company, Boston, Mass. Coin-controlled mechanism for vending machines. 1,734,191; Nov. 5.



- Averett, Andrew E., Schenectady, N. Y., assignor to General Electric Company. Brazing alloy. 1,724,818; Aug. 13.
- Aversa, Raffaele, New York, N. Y. Sliding and swinging window sash balance. 1,701,254; Feb. 5.
- Avery, Alfred H., Malden, assignor to North American Chemical Company, Boston, Mass. Shoe-bottom filler piece. 1,716,364; June 11.
- Avery, B. F., & Sons. (See Ray, Charles T., assignor.)
- Avery, Frederick C. (See Johnson, Charles, assignor.)
- Avery, Harry H., Lethbridge, Alberta, assignor of one-tenth to O. Kirstein, Gleichen, Alberta, Canada. Bearing. 1,708,997; Apr. 16.
- Avery, Henry A., Groton, assignor, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,723,672; Aug. 6.
- Avery, Henry A., O. Petermann, and E. L. Harmon, Groton, assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,700,826; Feb. 5.
- Avery, Henry A., O. Petermann, and E. L. Harmon, Groton, assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,700,827; Feb. 5.
- Avery, Henry A., O. Petermann, and E. L. Harmon, Groton, assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,700,828; Feb. 5.
- Avery, Henry A., O. Petermann, and E. L. Harmon, Groton, assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,700,829; Feb. 5.
- Avery, Henry A., O. Petermann, and E. L. Harmon, Groton, assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,741,673; Dec. 31.
- Avery, James H., Franklin, Mass., assignor to National Ring Traveler Co., Providence, R. I. Twister ring and traveler. 1,732,785; Oct. 22.
- Avery, John M., Plumtree, N. C. Self-closing bar gate. 1,702,758; Feb. 19.
- Avery, Sewell L., Jr., Evanston, Ill., and M. H. Basquin, Oakfield, N. Y., assignors to United States Gypsum Company, Chicago, Ill. Treatment of ends and edges of burned gypsum boards. 1,725,243; Aug. 20.
- Avery, True M., Glens Falls, assignor to Union Bag & Paper Corporation, New York, N. Y. Electric switch. 1,731,188; Oct. 8.
- Avery, W. & T., Limited. (See Bradley, Leslie C., assignor.)
- Avery, W. & T., Limited. (See Taylor, John W., assignor.)
- Avery, W. & T., Limited. (See Timson, William, assignor.)
- Avilés, Eleodoro. (See Hirt, O., Avilés, and Forero.)
- Avillar, Manuel D., New York, N. Y. Bottle-seal opener. Des. 78,554; May 21.
- Avillar, Manuel D., New York, N. Y. Bottle-seal opener. Des. 79,877; Nov. 12.
- Avirgan, Joseph, assignor of one-third to S. J. T. Stout and one-third to S. Avirgan, Philadelphia, Pa. Refreshment booth. 1,712,487; May 14.
- Avirgan, Samuel, et al. (See Avirgan, Joseph, assignor.)
- Avis, Samuel W., West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Screw-eye-affixing machine. 1,729,977; Oct. 1.
- Ayron, Bessie, New York, N. Y. Combination undergarment. 1,705,171; Mar. 12.
- Ayutuk, Joseph, Bronx, N. Y. Table. 1,741,904; Dec. 31.
- Aystreich, William. (See Metrick, S., and Aystreich.)
- Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Combined sash holder and starter. 1,712,480; May 14.
- Axe, Roy T., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y. Window and curtain roller construction. 1,739,203; Dec. 10.
- Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window-sash construction. 1,741,354; Dec. 31.
- Axell, Fred H., Oakland, Calif. Flower holder. Des. 77,348; Jan. 1.
- Axelmann, Mayer, Chicago, Ill. Traveling-case frame. 1,741,603; Dec. 31.
- Axelsson Machine Company. (See Jardh, Wilhelm, assignor.)
- Axtell, Frank C., South Pasadena, assignor to Axtell Research Laboratories, Inc., Los Angeles, Calif. Distilling refined, cracked oils without avoidable decomposition or discoloration. 1,738,518; Dec. 10.
- Axtell, Frank D. P., New York, N. Y. Lid or cover. 1,702,243; Feb. 19.
- Axtell Research Laboratories, Inc. (See Axtell, Frank C., assignor.)
- Ayars, Charles H., Salem, N. J. Can-filling machine. 1,702,887; Feb. 19.
- Ayars, Charles H., Salem, N. J. Canning machine. 1,717,826; June 18.
- Ayars, Charles H., Salem, N. J. Tomato-coring machine. 1,717,827; June 18.
- Ayars, Charles H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. 1,719,580; July 2.
- Ayars Machine Company. (See Ayars, Charles H., assignor.)
- Aycock, Robert V., and W. D. Harris, assignors to RefinOil Manufacturing Corporation, Kansas City, Mo. Refining used oils. 1,707,671; Apr. 2.
- Ayer, John P., Portland, Me. Emergency exterior air-connection unit for submarines. 1,731,559; Oct. 15.
- Ayer, John P., Portland, Me. Submarine rescue apparatus. 1,740,532; Dec. 24.
- Ayer, Louis H., Chicago, Ill. Bonding pin. 1,706,992; Mar. 26.
- Ayers, Albert A., Bakersfield, Calif. Carburetor. 1,703,982; Mar. 5.
- Ayers, Arthur U., assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,737,137; Nov. 26.
- Ayers, Augustine R., Cleveland, Ohio, assignor to The Okadee Company, Chicago, Ill. Locomotive-cylinder cock. 1,704,817; Mar. 12.
- Ayers, Eugene E., Jr., Chester, and L. H. Clark, assignors to The Sharples Specialty Company, Philadelphia, Pa. Refining fatty oils. 1,737,402; Nov. 26.
- Ayres, Eugene E., Jr., Swarthmore, assignor to The B. A. S. Company, Philadelphia, Pa. Chlorination. 1,741,393; Dec. 31.
- Ayres, John E., Hartford, Conn. Bottle holder for bottle-washing machines. 1,724,336; Aug. 13.
- Ayers, John R., Malden, Mass. Shoe. 1,712,481; May 14.
- Ayers, Joseph G., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Journal box. 1,715,267; May 28.
- Ayers, Joseph G., Jr., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Making bearings. 1,715,268; May 28.
- Ayers, Ray C., Lockney, assignor of one-half to J. Collings, Fort Worth, Tex. Thrashing cylinder. 1,736,775; Nov. 26.
- Ayers, Robert C. (See Rovere, L. H., Mott, and Ayers.)
- Ayles, William F., Oxhey, England. Bladed hide, skin, or leather working machine. 1,734,106; Nov. 5.
- Ayotte, Joseph R., Chicago, Ill. Cigar lighter. 1,708,408; Apr. 9.
- Ayres, Arthur U. (See Jones, L. D., and Ayres.)
- Ayres, Arthur U., assignor to The Sharples Specialty Company, Philadelphia, Pa. Driving mechanism. 1,698,488; Jan. 8.
- Ayres, Elwood B., Melrose Park, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Toggle. 1,730,760; Feb. 26.
- Ayres, Eugene E., Jr., Chester, assignor to The B. A. S. Company, Philadelphia, Pa. Manufacture of glyoxal and glycollic acid. 1,741,394; Dec. 31.
- Ayres, Eugene E., Jr., Swarthmore, assignor to The B. A. S. Company, Philadelphia, Pa. Chlorination. 1,717,136; June 11.
- Ayres, Robert S., Kansas City, Mo. Dispensing container. 1,726,689; Sept. 3.
- Azarraga, Luis, Hempstead, N. Y. Aeroplane dolly. 1,703,652; Feb. 26.
- Azarraga, Luis, Hempstead, N. Y. Winding means for motion-picture cameras. 1,739,113; Dec. 10.
- Azone, George, Philadelphia, Pa. Air vent for siphon flush. 1,730,108; Oct. 1.
- Azzara, Santo, Brooklyn, N. Y. Shoe shank. 1,725,437; Aug. 20.
- B. A. S. Company, The. (See Ayres, Eugene E., Jr., assignor.)
- B. A. S. Company, The. (See Haabestad, Erling H., assignor.)
- B & B Shoe Company. (See Golden, Louis J., assignor.)
- B. B. T. Corporation of America. (See Huntsman, William R., assignor.)
- B. B. T. Corporation of America. (See Kellett, William W., assignor.)
- B. G. Corporation, The. (See Paulson, George M., assignor.)
- B & G Specialty Company. (See Elbert, Benjamin F., assignor.)
- B. M. C. Patent Company. (See Blatterman, Albert S., assignor.)
- B. O. T. Mfg. Co. (See Tilden, Bert O., assignor.)
- B. V. D. Company Inc., The. (See Heyn, Edmund C., assignor.)
- B. Z. B. Knitting Company. (See Burson, Wilson W., assignor.)
- Back, Howard E., assignor to Patent Engineering Company, Chicago, Ill. Putting green. 1,722,028; July 23.
- Baader, Herman, Mountaineville, assignor to Textile Patents Corporation, Allentown, Pa. Narrow fabric loom. 1,731,286; Oct. 15.
- Baader, Herman, Mountaineville, Salisbury Township, Lehigh County, Pa., assignor to Textile Patents Corporation, Allentown, Pa. Narrow-fabric loom. 1,737,138; Nov. 26.
- Baarsgard, Eli, Mabel, Minn. Pocket ash container. 1,718,400; June 25.
- Baush, Lawrence F. (See Maxwell, William H., assignor.)
- Babbitt, Bethel J., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for measuring the permeability of magnetic materials. 1,739,277; Dec. 10.
- Babbitt, Edwin V., Fairhaven, assignor to International Toy Corporation, New Bedford, Mass. Racing game. 1,702,291; Feb. 19.
- Babcock, Charles S., Oak Park, Ill. Apparatus for the reproduction of sounds telephonically. 1,709,201; Apr. 16.
- Babcock, Garrison, Seattle, Wash. Weatherproof cover. 1,714,485; May 28.



- Babcock, Leland A., Oak Park, assignor to Sprague-Sells Corporation, Hoopston, Ill. Apparatus for stemming fruits. 1,734,788; Nov. 5.
- Babcock, Leon W., Kenil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Explosive. 1,741,146; Dec. 31.
- Babcock Manufacturing Company, The. (See Reynolds, Arthur W., assignor.)
- Babcock, Oliver M., Evanston, Ill. Container. 1,704,118; Mar. 5.
- Babcock Printing Press Manufacturing Company, The. (See Bennet, James E., assignor.)
- Babcock Printing Press Manufacturing Company, The. (See English, F. S., and Doods, assignors.)
- Babcock & Wilcox Company, The. (See Dickson, George, assignor.)
- Babcock & Wilcox Company, The. (See Diven, Louis, assignor.)
- Babcock & Wilcox Company, The. (See Harter, Isaac, assignor.)
- Babcock & Wilcox Company, The. (See Heaton, Herman C., assignor.)
- Babcock & Wilcox Company, The. (See Higgins, Campbell P., assignor.)
- Babcock & Wilcox Company, The. (See Hollick, Frederick W., assignor.)
- Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
- Babcock & Wilcox Company, The. (See Jones, William A., assignor.)
- Babcock & Wilcox Company, The. (See Jowett, Edwin, assignor.)
- Babcock & Wilcox Company, The. (See Kehoe, Basil T., assignor.)
- Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
- Babcock & Wilcox Company, The. (See Kerr, H. J., and Trainer, assignors.)
- Babcock & Wilcox Company, The. (See Langvand, Ivar L., assignor.)
- Babcock & Wilcox Company, The. (See Lucke, Charles E., assignor.)
- Babcock & Wilcox Company, The. (See MacKay, Henry J. S., assignor.)
- Babcock & Wilcox Company. (See Molz, Joseph, assignor.)
- Babcock & Wilcox Company, The. (See Monroe, William S., assignor.)
- Babcock & Wilcox Company, The. (See Pratt, Arthur D., assignor.)
- Babcock & Wilcox Company, The. (See Prentice, John, assignor.)
- Babcock & Wilcox Company, The. (See Seifert, Charles H., assignor.)
- Babcock & Wilcox Company, The. (See Smith, Herman B., assignor.)
- Babcock & Wilcox Company, The. (See Stillman, Thomas B., assignor.)
- Babcock & Wilcox Company, The. (See Whittam, Benjamin B., assignor.)
- Baber, William A., Wichita Falls, Tex. Roller-shade fixture. 1,706,511; Mar. 26.
- Babich, George G., New York, N. Y. Plant propagator. 1,740,057; Dec. 17.
- Babitch, Abraham, assignor to A C Spark Plug Company, Flint, Mich. Gasoline filter. 1,705,042; Mar. 12.
- Babize, Henri C., Fullerton, Calif. Woodworking machine. 1,711,077; Apr. 30.
- Babson, Henry B., and G. W. Ankersen, Chicago, Ill. Apparatus for high-frequency communication. 1,736,870; Nov. 26.
- Babson, Henry B., and G. W. Ankersen, Chicago, Ill. High-frequency communicating system. 1,741,493; Dec. 31.
- Babson, Roger W., Wellesley, Mass. Check-controlled apparatus for measurement and payment of intangible values. 1,731,839; Oct. 15.
- Bacalu, Adolf, Bucharest, Rumania. Vehicle. 1,713,017; May 14.
- Baccovich, Celso P., Genoa, Italy. Cement. 1,696,839; Jan. 1.
- Bach Aircraft Company. (See Bach, Loyal M., assignor.)
- Bach, Felix, Greengburg, Pa. Automobile light. 1,738,092; Dec. 3.
- Bach, George W., assignor to Union Iron Works, Erie, Pa. Boiler. 1,736,898; Nov. 26.
- Bach, Loyal M., Santa Monica, assignor to Bach Aircraft Company, Inc., Los Angeles, Calif. Fuselage for aeroplanes. Des. 79,061; July 30.
- Bach, Neils P., Milburn, N. J., assignor to Thermokept Corporation, New York, N. Y. Metal can. 1,713,067; May 14.
- Bach, Neils P., Millburn, N. J., assignor to Thermokept Corporation, New York, N. Y. Can-spacing mechanism. 1,713,068; May 14.
- Bach, Valentin, Manhattan Beach, Calif. Slab scoop for ice cream. 1,710,397; Apr. 23.
- Bache, Edmund, assignor to Waldorf Paper Products Company, St. Paul, Minn. Making waterproof paperboard. 1,735,030; Nov. 12.
- Bache, William S., McKeesport, Pa. Pipe coupling. 1,728,588; Sept. 17.
- Bachelor, Frank H., Orange, Mass. Dispensing cabinet. 1,699,040; Jan. 15.
- Bachelet, Emile, Poughkeepsie, N. Y. Mechanical movement. 1,738,981; Dec. 10.
- Bacher, Will L., assignor to White Cloud Farms Inc., Rock Tavern, N. Y. Cup. Des. 77,725; Feb. 19.
- Bachers, Albert F. (See Wilkie, H. V., and Bachers.)
- Bachleda, Harriet, Minneapolis, Minn. Hair curler. 1,738,681; Dec. 10.
- Bachleda, Harriet, Minneapolis, Minn. Hair marceller. 1,738,754; Dec. 10.
- Bachman, Siegmund, Chicago, Ill. Box. 1,699,269; Jan. 15.
- Bachmann, Frederick A., Union City, N. J. Key-duplicating machine. 1,697,747; Jan. 1.
- Bachofen, Jacob. (See Dunning, W. E., and Bachofen.)
- Bachrach, Henry B. (See Surprenant, O. J., and Bachrach.)
- Bachrach, Philip H., Oceanside, Calif. Auxiliary or emergency vehicle wheel. 1,712,322; May 7.
- Bachstein, Hermann. (See Leffer, Louis G., assignor.)
- Back, Goldie, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade attachment. 1,719,415; July 2.
- Back, Robert, and G. A. Cooper, Chicago, Ill., assignors, by mesne assignments, to Pen Desk Set Company. Combined desk stand and penholder. Des. 79,691; Oct. 29.
- Backer, Christian B., Timperley, England. Water heater. 1,697,157; Jan. 1.
- Backer, Christian B., Brooklyn, N. Y. Concentric hot plate. 1,705,702; Mar. 19.
- Backer, Christian B., Brooklyn, N. Y. Heater unit. 1,715,692; June 4.
- Backer, Christian B., Brooklyn, N. Y. Electric percolator. 1,731,882; Oct. 15.
- Backhaus, Ernest, New York, N. Y. Transmission. 1,733,044; Oct. 22.
- Backhouse, Walter S. A., Wilmslow, England. Steam separator. 1,718,272; June 25.
- Backman, Charles. (See Smith, V. A., and Backman.)
- Backstay Welt Company, The. (See Schemmel, Robert C., assignor.)
- Backstrom, Frederick A., Chicago, Ill. Portable back rest for seats. 1,721,366; July 16.
- Bäckström, Matts, and C. Pöhl, assignors to Ruths Accumulator Aktiebolag, Stockholm, Sweden. Steam-power plant. 1,726,730; Sept. 3.
- Bäckström, Sigurd M. (See Von Platen, B. C., Munters, and Bäckström.)
- Bäckström, Sigurd M., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,736,871; Nov. 26.
- Backus, Charles E., et al. (See Swanson, Charles J., assignor.)
- Backus, Theodore H., Ann Arbor, Mich. Pipe fitting. 1,718,450; June 25.
- Bacon Banjo Co. (See Oettinger, Mark A., assignor.)
- Bacon, Charles C., assignor to Ross-Tacony Crucible Company, Philadelphia, Pa. Bayonet-joint ladle stopper. 1,719,795; July 2.
- Bacon, Elbridge F., Dayton, Ohio. Level. 1,730,109; Oct. 1.
- Bacon, Erwin L. (See Chilson, R. W., Bacon, and Luikart.)
- Bacon, George M., assignor to Divco-Detroit Corporation, Detroit, Mich. Control mechanism for motor vehicles. 1,737,489; Nov. 26.
- Bacon, Raymond F., Bronxville, N. Y. Production of hydrogen sulphide. 1,700,578; Jan. 29.
- Bacon, Raymond F., Bronxville, N. Y. Recovery of sulphur from iron pyrites. 1,731,516; Oct. 15.
- Bacon, Raymond F., Bronxville, N. Y. Recovery of sulphur from roaster gases. 1,734,991; Nov. 12.
- Baddiley, James, P. Dootson, A. Shepherdson, and S. Thornley, assignors to British Dyestuffs Corporation Limited, Blackley, Manchester, England. Manufacture of new dyestuffs. 1,734,789; Nov. 5.
- Badel, Jules L., Geneva, Switzerland. Structural framework. 1,704,275; Mar. 5.
- Badel, Frank, Cicero, assignor to E. Edelmann & Co., Chicago, Ill. Hydrometer. 1,732,961; Oct. 22.
- Bader, Fred W., Hillsdale, N. J. Textile fabric. Des. 78,916; July 9.
- Bader, Marcel, and C. Sunder, Mulhouse, France, and T. VOLTZ, assignors to the firm Durand & Huguenin S. A., Basel, Switzerland. Preparation of esterlike derivatives of vat dyestuffs. 1,727,267; Sept. 3.
- Bader, Marcel, and C. Sunder, Mulhouse, France, and T. VOLTZ, assignors to the firm Durand & Huguenin S. A., Basel, Switzerland. Preparation of esterlike derivatives of vat dyestuffs. 1,727,268; Sept. 3.
- Bader, Theodor, Waldshut, Germany. Vessel for heating purposes. 1,715,444; June 4.
- Badermann, Karl R. E., Sagan, Germany. Airplane. 1,725,950; Aug. 27.
- Badertscher, Otto J., Zurich, Switzerland. Vacuum servo-brake for motor-driven vehicles. 1,721,290; July 16.
- Badger, Arthur C., Newton, assignor to Badger Fire Extinguisher Company, Boston, Mass. Fire extinguisher. 1,715,346; June 4.
- Badger, Arthur C., Newton, Mass. Fire extinguisher. 1,715,347; June 4.
- Badger, Arthur C., Newton, Mass. Fire extinguisher. 1,725,775; Aug. 27.
- Badger, Arthur C., Newton, Mass. Fire explosion. 1,725,776; Aug. 27.



- Badger, Arthur C., Newton, Mass. Fire extinguisher. 1,725,777; Aug. 27.
- Badger, Arthur C., Newton, Mass. Fire extinguisher. 1,725,778; Aug. 27.
- Badger, Arthur C., Newton, Mass. Method of and apparatus for creating abnormal pressure in and sealing hollow bodies. 1,728,171; Sept. 17.
- Badger Auto Service Company. (See Rossman, Paul J., assignor.)
- Badger Fire Extinguisher Company. (See Badger, Arthur C., assignor.)
- Badger Manufacturing Corporation. (See Kauffung, Clarence H., assignor.)
- Badger Manufacturing Corporation. (See Starck, William A., assignor.)
- Badger Rubber Works, The. (See Koss, Charles R., assignor.)
- Badrian, Max, Berlin, Germany. Device for elastically clamping of the male urethra. 1,728,322; Sept. 17.
- Badura, John A., Ashton, Neb. Animal yoke. 1,718,728; June 25.
- Baechler, Kiser et Cie. (See Baechler, Max, assignor.)
- Baechler, Max, assignor to Baechler, Kiser et Cie., Paris, France. Vertical drying and dehydrating apparatus. 1,718,104; June 18.
- Baehr, George, McKeesport, Pa. Hollow roll. 1,739,939; Dec. 17.
- Baenziger, Leonard, Abington, assignor to Acme Electric Manufacturing Co., Chelsea, Mass. Fuse plug. Re17,341; June 25.
- Baer, Alfred, Berlin, Germany. Crank shaft. 1,715,489; June 4.
- Baer, Carl J., St. Louis, Mo., and C. F. Jeffries, Detroit, Mich. Boat. 1,717,541; June 18.
- Baer, Erich, New York, N. Y. Trousers stretcher. 1,725,387; Aug. 20.
- Baer, Joseph. (See Poranski, Walter, assignor.)
- Baer, Lawrence E., Attleboro, Mass. Necktie holder. 1,714,540; May 28.
- Baer, Lawrence E., assignor to Baer & Wilde Co., Attleboro, Mass. Necktie holder. Des. 78,374; Apr. 30.
- Baer & Wilde Co. See Baer, Lawrence E., assignor.)
- Baerbalck, Hans. (See Soa, A. M., and Baerbalck.)
- Baerbalck, Hans, assignor to The American Tool Works Company, Cincinnati, Ohio. Metal-working machinery. 1,700,966; Feb. 5.
- Baerbalck, Hans, assignor to The American Tool Works Company, Cincinnati, Ohio. Metal-working machinery. 1,700,967; Feb. 5.
- Baerle & Morris, Inc. (See Macleod, Cameron, assignor.)
- Bagasse Products Corporation. (See de la Roza, Joaquin J., sr., assignor.)
- Bagby, John R. (See Fowler, M. J., Harmon, and Blankenship, assignors.)
- Bager, Svante R. W. M., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Excavator or the like. 1,724,166; Aug. 13.
- Baginski, Leo M., Berlin-Pankow, Germany. Massage apparatus. 1,724,893; Aug. 20.
- Bagley, Glen D., Flushing, N. Y., assignor to Carbide & Carbon Chemicals Corporation. Conducting chemical reactions. 1,731,331; Oct. 15.
- Bagley, Glen D., Great Neck, and F. T. Bowditch, Elmhurst, N. Y., assignors to The National Carbon Company, Inc. Electrolytic rectifier. 1,706,950; Mar. 26.
- Bagley, Ralph B., Cedar Rapids, Iowa, assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Direct-expansion ice-cream freezer. 1,709,454; Apr. 16.
- Bagley and Sewall Company, The. (See Valentine, Charles W., assignor.)
- Bagley and Sewall Company, The. (See Valentine, C. W., and Helin, assignors.)
- Bagshaw, Annie E., Hampstead, London, England. Umbrella, parasol, sunshade, and the like. 1,711,872; May 7.
- Bagshaw, Charles M., Leicester, England. Machine for operating upon the heel ends of boots and shoes. 1,698,902; Jan. 15.
- Bagshaw, Charles M., Leicester, England. Tack-supplying apparatus for nailing machines. 1,698,903; Jan. 15.
- Bagshaw, Charles M., Leicester, England. Pulling-over machine. 1,711,439; Apr. 30.
- Bahlke, William H. (See Wilson, R. E., Hunneman, Bahlke, and Rogers.)
- Bahlke, William H., assignor to Standard Oil Company of Indiana, Whiting, Ind. Fractionating tower. 1,702,805; Feb. 19.
- Bahre, Carlos E., Buenos Aires, Argentina. Utilizing stem fibers. 1,739,491; Dec. 17.
- Baier, Charles, West Orange, N. J. Coal-gas converter for furnaces. 1,728,913; Sept. 24.
- Bailes, Loyal F., and W. L. Carden, Medford, Oreg. Ironing machine. 1,715,053; May 28.
- Bailey, Allen E., jr., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,701,352; Feb. 5.
- Bailey, Amanzel M., Rewey, Wis. Weaning device. 1,714,414; May 21.
- Bailey, Amos, Ottumwa, Iowa. Beet harvester. 1,704,421; Mar. 5.
- Bailey, Arthur L., Jamaica Plain, Mass. Cooking utensil. 1,698,527; Jan. 8.
- Bailey, Benjamin F., Ann Arbor, Mich., assignor to Regents of the University of Michigan. Electric motor. 1,707,423; Apr. 2.
- Bailey, Benjamin F., Ann Arbor, Mich., assignor to Regents of the University of Michigan. Induction motor. 1,707,424; Apr. 2.
- Bailey, Claude B., Wyandotte, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Gasket. 1,730,110; Oct. 1.
- Bailey, Claude B., Wyandotte, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Gasket. 1,738,513; Dec. 10.
- Bailey, Dorian. (See Bailey, Richard D. and D.)
- Bailey, E. A., et al. (See Moore, Samuel, assignor.)
- Bailey, Edwin W. M., Amesbury, Mass. Window-glass channel. 1,714,256; May 21.
- Bailey, Ervin G., Cleveland Heights, Ohio, assignor, by mesne assignments, to Fuller Lehigh Company. Refractory arch for furnaces and producing the same. 1,719,416; July 2.
- Bailey, Ervin G., Cleveland Heights, Ohio, assignor, by mesne assignments, to Fuller Lehigh Company. Furnace and lining material therefor. 1,719,642; July 2.
- Bailey, Ervin G., Cleveland Heights, Ohio, assignor, by mesne assignments, to Fuller Lehigh Company. Apparatus for feeding and metering pulverulent material. 1,736,243; Nov. 19.
- Bailey, Frank L., Okmulgee, Okla. Gas mixer. 1,710,601; Apr. 23.
- Bailey, Frank T., and W. Austin, New York, N. Y. Production of white lead. 1,720,196; July 9.
- Bailey, Frank T., and W. Austin, New York, N. Y. Production of white lead. 1,723,001; Aug. 6.
- Bailey, Fred M., Minneapolis, Minn. Grain door for cars. 1,704,420; Mar. 5.
- Bailey, Harlow, jr., assignor of one-tenth to P. J. Tamony, three-tenths to himself, one-fourth to J. H. Smith, San Francisco, and thirty-five one-hundredths to R. A. Alger, jr., Los Angeles, Calif. Drag-line scraper. 1,714,120; May 21.
- Bailey, Harrison, Mount Carmel, Pa. Foot rest for accelerator controls. 1,733,854; Oct. 29.
- Bailey, Harvey W. (See Whittaker, Earl J., assignor.)
- Bailey, James, assignor to Corning Glass Works, Corning, N. Y. Finishing glass articles. 1,721,983; July 23.
- Bailey, Joseph O., Atlanta, Ga. Machine and process for making continuous helicoids or conveyers. 1,698,149; Jan. 8.
- Bailey, Joseph O., Atlanta, Ga. Lubricating conveyer hanger. 1,739,345; Dec. 10.
- Bailey Meter Company. (See Benjamin, Merrill G., assignor.)
- Bailey Meter Company. (See Bennett, F. S., and Biggs, assignors.)
- Bailey Meter Company. (See Collins, Donley S., assignor.)
- Bailey Meter Company. (See Mapelsden, Harold H., assignor.)
- Bailey Meter Company. (See Smith, Arthur R., assignor.)
- Bailey Meter Company. (See Thompson, Louis W., assignor.)
- Bailey, Myron. (See Sebring, B. A., and Bailey.)
- Bailey, Nelson B., San Francisco, Calif. Musical-instrument mouthpiece. 1,705,601; Mar. 19.
- Bailey, Olin F., Aguanga, Calif. Attachment for tractors. 1,712,684; May 14.
- Bailey, Otterbein A. (See Day, C. L., Boardman, and Bailey.)
- Bailey, Percy S., Marblehead, Mass., assignor to General Electric Company. Light projector. 1,717,301; June 11.
- Bailey, Percy S., Marblehead, Mass., assignor to General Electric Company. Series receptacle. 1,733,000; Oct. 22.
- Bailey, Rand S., Montclair, N. J., assignor to American Telephone and Telegraph Company. Toll trunk circuit. 1,712,542; May 14.
- Bailey, Rand S., Glen Ridge, N. J., and L. L. Eagon, New York, N. Y., assignors to American Telephone and Telegraph Company. Telephone system. 1,724,898; Aug. 20.
- Bailey, Richard D. and D., Seaforth, England. Sky writing. 1,736,516; Nov. 19.
- Bailey, Richard O. (See Gray, D., Bailey, and Murray.)
- Bailey, Rufus W., Kansas City, Mo. Engine. 1,704,716; Mar. 12.
- Bailey, Rufus W., Kansas City, and L. R. Koenig, St. Louis, Mo.; said Koenig assignor to said Bailey. Automotive bus. 1,697,629; Jan. 1.
- Bailey, Silas E., assignor to Elmira Knitting Mills, Elmira Heights, N. Y. Machine for cutting and folding tags, labels, or hangers. 1,709,108; Apr. 16.
- Bailey, V. W., et al. (See Graham, Homer L., assignor.)
- Bailey, William F. (See Lee, Francis E., assignor.)
- Bailey, William G. (See Chaiker, A. R., and Bailey.)
- Bailey, William J. A., East Orange, N. J. Radioactive-material ray disseminator. Des. 79,690; Oct. 29.
- Bailey, William M. (See Proctor, J. A., and Bailey.)
- Bailey, William M., Lynn, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical transformer. 1,706,837; Mar. 26.
- Bailey, William M., Lynn, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Tuning thermionic amplifier. 1,706,838; Mar. 26.
- Bailey, William M., Lynn, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical condenser. 1,725,123; Aug. 20.

- Bailey, William T., assignor to The Rotary Printing Company, Norwalk, Ohio. Manifold apparatus. 1,713,112; May 14.
- Bailhe, George, Fort Wayne, Ind. Accelerator for motor vehicles. 1,701,906; Feb. 12.
- Bailly, Arthur F., Yardville, N. J. Retaining device. 1,728,849; Sept. 17.
- Bailly, Arthur F., Yardville, N. J. Combined arm rest and prop. 1,736,569; Nov. 19.
- Baily, Thaddeus F. (See Nagy, Peter M., assignor.)
- Baily, Thaddeus F., Alliance, Ohio. Continuous sheet-heating furnace. 1,696,900; Jan. 1.
- Baily, Thaddeus F., Alliance, Ohio. Reduction process and apparatus. 1,704,029; Mar. 5.
- Baily, Thaddeus F., Alliance, Ohio. Casting apparatus. 1,727,191; Sept. 3.
- Baily, Thaddeus F., Alliance, Ohio. Annealing equipment and method. 1,727,192; Sept. 3.
- Baily, Thaddeus F., Alliance, Ohio. Making ferro-silicon. 1,727,193; Sept. 3.
- Baily, Thaddeus F., Alliance, Ohio. Method of making steel. 1,739,278; Dec. 10.
- Baily, Thaddeus F., Alliance, Ohio. Melting and refining furnace. 1,739,343; Dec. 10.
- Baily, Thaddeus F., Alliance, Ohio. Electric furnace. 1,739,344; Dec. 10.
- Bain, Carl C., assignor to Wolverine Supply & Manufacturing Company, Pittsburgh, Pa. Automatic toy. 1,699,484; Jan. 15.
- Bain, Forée, (See Purdy, F., and Bain.)
- Bain, Fred B., Inc. (See Bain, Frederick B., assignor.)
- Bain, Frederick B., Piedmont, assignor to Fred B. Bain, Inc., San Francisco, Calif. Guide map. 1,706,342; Mar. 19.
- Baines, Joseph E., Pittsburgh, Pa., assignor to National Tube Company. Chamfering apparatus. 1,706,512; Mar. 26.
- Baines, Joseph E., and J. P. Bosle, Pittsburgh, Pa., assignors to National Tube Company. Sizing plug. 1,706,513; Mar. 26.
- Bair, Robert M., Hummelstown, Pa. Coaching and aiming apparatus for firearms. 1,740,561; Dec. 24.
- Bair, Milford M., and W. E. Edgerton, Glen Cove, N. Y. Foldable boat. 1,738,221; Dec. 3.
- Baird, Albert E., et al. (See Cralsen, Frank J., assignor.)
- Baird, Cassius M. C., Evanston, Ill. Traffic marker. 1,698,150; Jan. 8.
- Baird, Edward P., Evanston, assignor to Baird Lock Co., Chicago, Ill. Lock. 1,702,488; Feb. 19.
- Baird, Edward P., Evanston, assignor to Baird Lock Co., Chicago, Ill. Lock. 1,725,557; Aug. 20.
- Baird, John L., assignor to Television Limited, London, England. Light-sensitive electric device. 1,697,451; Jan. 1.
- Baird, John L., assignor to Television Limited, London, England. Apparatus for transmitting views or images to a distance. 1,699,270; Jan. 15.
- Baird, John L., Helensburgh, Scotland, assignor to Television Limited, London, England. Television apparatus. 1,707,935; Apr. 2.
- Baird, John L., assignor to Television Limited, London, England. Television and like system. 1,735,946; Nov. 19.
- Baird, John W., et al, trustees. (See Scheid, Henry J., assignor.)
- Baird Lock Co. (See Baird, Edward P., assignor.)
- Baird, Lynne D., and S. B. Durbin, Tulsa, Okla. Pump. 1,714,486; May 28.
- Baird, Vascoe C., Owensboro, Ky. Stovepipe-cleaning device. 1,735,488; Nov. 12.
- Baird, W. H. (See Boettcher, Herman H., assignor.)
- Baird, William, Plattsmouth, Nebr. Pneumatic hammer. 1,727,322; Sept. 10.
- Baits, Stuart G. (See Fekete, S. I., Baits, and Northrup.)
- Bakelite Corporation. (See Bender, Howard L., assignor.)
- Bakelite Corporation. (See Groff, F., and Miller, assignors.)
- Bakelite Corporation. (See Miller, George W., assignor.)
- Bakelite Corporation. (See Mills, Harry P., assignor.)
- Bakelite Corporation. (See Nash, Clarence A., assignor.)
- Bakelite Corporation. (See Redman, Lawrence V., assignor.)
- Bakelite Corporation. (See Redman, L. V., and Turkington, assignors.)
- Bakelite Corporation. (See Turkington, Victor H., assignor.)
- Bakelite Corporation. (See Schmidt, John H., assignor.)
- Bakelite Corporation. (See Weith, Archie J., assignor.)
- Bakelite Corporation. (See Weith, A. J., and Holzman, assignors.)
- Bakelite Corporation. (See Weith, A. J., Meharg, and Ahlbeck, assignors.)
- Bakelite Corporation. (See Wightman, Gordon E., assignor.)
- Bakelite Gesellschaft mit beschränkter Haftung. (See Seebach, Fritz, assignor.)
- Baker, Andrew S., Los Angeles, Calif., assignor to The Baker Automatic Trappet Company, Inc., Carson City, Nev. Trap nest. 1,708,824; Apr. 9.
- Baker, Archie G., assignor to Amoskeag Manufacturing Company, Manchester, N. H. Spool-cleaning machine. 1,739,775; Dec. 17.
- Baker, Arthur J., assignor to The Willvs-Overland Company, Toledo, Ohio. Timing gear. 1,735,229; Nov. 12.
- Baker, Arthur R. (See Baker, Walter N. and A. R.)
- Baker Automatic Trappet Company, The. (See Baker, Andrew S., assignor.)
- Baker, Bertie F. (See Knox, H. A., and Baker.)
- Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)
- Baker, Charles E., East Hartford, assignor of one-half to E. W. Putnam, Hartford, Conn. Fluid-control transmission. 1,720,161; July 9.
- Baker, Charles H., Jr., New York, N. Y. Refreshment cart or similar article. Des. 79,495; Oct. 1.
- Baker, Charles H., assignor to Firestone-Apsley Rubber Company, Hudson, Mass. Separable fastener. 1,715,976; June 4.
- Baker, Charles H., assignor to Firestone Footwear Company, Hudson, Mass. Separable fastener. 1,741,805; Dec. 31.
- Baker, Charles L., near Glenshaw, Pa. Hot-water heating system. 1,731,368; Oct. 15.
- Baker, Charles R., Evanston, Ill. Motor-oil-change indicator. 1,703,332; Feb. 26.
- Baker, Chester A., assignor to Baker Ice Machine Co., Inc., Omaha, Nebr. Stuffing box. 1,700,731; Feb. 5.
- Baker & Co. Inc. (See Maulen, F., Myerson, and Van Allen, assignors.)
- Baker, Cosmos C., Dallas, Tex. Sweet-potato-crisping process. 1,718,211; June 25.
- Baker, Coston S., Chicago, Ill. Combination solitaire and play board. 1,716,022; June 4.
- Baker, Darby L., Atlanta, Ga. Semimechanical phosphate den. 1,725,694; Aug. 20.
- Baker, David, Swarthmore, Pa. Blast-furnace top. 1,717,828; June 18.
- Baker, David, Swarthmore, and W. S. Myers, Darby, Pa. Bin system. 1,717,361; June 18.
- Baker, David B. (See Johnston, E. A., Baker, and Hagen.)
- Baker, David B. (See Johnston, E. A., Benjamin, and Baker.)
- Baker, David S., Greenwich, Conn. Drier. 1,706,993; Mar. 26.
- Baker, Delbert, Tulsa, Okla. Hook. 1,711,440; Apr. 30.
- Baker, Dexter C., Oakland, assignor to Baker-Hansen Manufacturing Co., Alameda, Calif. Blower. 1,729,093; Sept. 24.
- Baker, Donald R., New York, N. Y. Advertising circular. 1,709,831; Apr. 23.
- Baker, E. H., et al. (See Altimari, G., and Campbell, assignors.)
- Baker, Edgar N., assignor, by mesne assignments, to Robbins & Myers, Inc., Springfield, Ohio. Electric motor. 1,712,065; May 7.
- Baker, Edward A., Mansfield, Ohio. Casing for guard cages. Des. 79,692; Oct. 29.
- Baker, Edward A., Mansfield, Ohio. Nonskid flexible traction shoe. 1,719,746; July 2.
- Baker, Edwin M. (See Leslie, E. H., and Baker.)
- Baker, Elbridge, Pasadena, assignor of fifty-one per cent to G. A. Haskell and P. C. Holland, Los Angeles, Calif. Cold-milk-dehydrating process. 1,738,275; Dec. 3.
- Baker, Elmer S., Jolley, assignor of one-half to K. M. Moore, Rockwell City, Iowa. Supplemental plowshare. 1,707,426; Apr. 2.
- Baker, Erle K., Detroit, Mich. Automobile wheel. 1,721,725; July 23.
- Baker, Erle K., Detroit, Mich. Automobile wheel. 1,730,872; Oct. 8.
- Baker, Erle K., Chicago, Ill. Automobile traction device. 1,738,682; Dec. 10.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Interchangeable demountable wheel. 1,718,916; June 25.
- Baker, Ernest J., Leatherhead, England. Automatic vending apparatus. 1,700,277; Jan. 29.
- Baker, Frank E., assignor to Chapin-Skelton Corporation, Syracuse, N. Y. Garment-pressing machine. 1,734,936; Nov. 5.
- Baker, Frank L., Tacoma, Wash. Automobile signal. 1,719,828; July 9.
- Baker, Fred C., Portland, Oreg., assignor to Macbeth-Evans Glass Company, Charleroi, Pa. Globe. Des. 78,603; May 28.
- Baker, Frederick W., Claymont, Del. Boiler. 1,710,961; Apr. 30.
- Baker, Frederick W., Oldswinford, Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y. Vehicle wheel. 1,698,423; Jan. 8.
- Baker, Frederick W., Stourbridge, England. Vehicle wheel with concentric rim. 1,701,469; Feb. 5.
- Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y. Flexible driving mechanism. 1,701,470; Feb. 5.
- Baker, Frederick W., Stourbridge, England., assignor to Trinity Wheel Corporation. Wheel rim. 1,715,890; June 4.
- Baker, Frederick W., Stourbridge, England, assignor to Trinity Wheel Corporation, New York, N. Y. Flexible driving mechanism. 1,733,771; Oct. 29.
- Baker, Frederick W. W., et al. (See Thorne-Baker, Thomas, assignor.)
- Baker, George, assignor of one-third to L. McCrory, one-sixth to A. S. Sands, and one-sixth to A. B. Campbell, Pawhuska, Okla. Gas burner. 1,700,918; Feb. 5.



- Baker, George F., jr., assignor to Popular Mechanics Co., Chicago, Ill. Advertising device. 1,707,503; Apr. 2.
- Baker, George M., (See Van Vorst, J., and Baker.)
- Baker, George R., London, England, assignor to Baker Perkins Company, Incorporated, New York, N. Y. Conveying apparatus. 1,736,517; Nov. 19.
- Baker, George R., London, J. W. Epps, Warlingham, and G. W. Perks, Southampton, England, assignors to Baker Perkins Company, Incorporated, New York, N. Y. Coating confectionery and the like. 1,737,447; Nov. 26.
- Baker, George R., and J. C. Paterson, Willesden, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Dough-sheeting machine and the like. 1,737,349; Nov. 26.
- Baker, George W., Chicago, Ill., and J. H. Dean, Ludington, Mich., assignor to Northwestern Expanded Metal Company, Chicago, Ill. Manufacture of expanded metal. 1,742,155; Dec. 31.
- Baker-Hansen Manufacturing Co. (See Baker, Dexter C., assignor.)
- Baker, Harold U. (See Jones, W. S., and Baker.)
- Baker, Harry E. (See Langford, L. W., and Baker.)
- Baker, Harry E., Boston, Mass. Punching mechanism for use with adding machines. 1,701,436; Feb. 5.
- Baker, Harry E., assignor to L. W. Langford, Boston, Mass. Sectional desk. 1,700,203; Jan. 29.
- Baker, Harry L., Elmira, N. Y. Display cabinet. 1,740,326; Dec. 17.
- Baker, Harry L., Elmira, N. Y. Display cabinet. 1,740,327; Dec. 17.
- Baker, Harry M., Burlington, Vt., and J. R. Gier, jr., Conrad, Iowa. Necktie-knot support. 1,717,542; June 18.
- Baker, Henry A., assignor to The McBee Binder Co., Athens, Ohio. Mailing container for junction cut-up reports. 1,716,846; June 11.
- Baker, Henry M., Los Angeles, Calif. Camera copy, and method of, and medium for, making the same. 1,709,600; Apr. 16.
- Baker, Henry W., Montevideo, Minn. Transmission. 1,710,855; Apr. 30.
- Baker, Herbert K., Detroit, Mich. Metallic floor joist. 1,698,081; Jan. 8.
- Baker, Howard C., and A. Kaigbin, Toledo, Ohio. Heater. 1,738,222; Dec. 3.
- Baker Ice Machine Co. (See Baker, Chester A., assignor.)
- Baker Ice Machine Co. (See Hoeschen, Henry A., assignor.)
- Baker, John A., South Shields, England. Railway-brake bracket. 1,739,776; Dec. 17.
- Baker, John F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,705,703; Mar. 19.
- Baker, John F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,705,704; Mar. 19.
- Baker, John F., Knoxville, Tenn. Railway car. 1,723,718; Aug. 6.
- Baker, John, F. L., assignor to Wickes Boiler Co., Saginaw, Mich. Cylinder-forming machine. 1,698,904; Jan. 15.
- Baker, John F. L., assignor to Wickes Boiler Co., Saginaw, Mich. Water wall for steam boilers. 1,717,751; June 18.
- Baker, John H., Dlo, Miss. Load chock for wagon bolsters. 1,726,729; Sept. 3.
- Baker, John S., assignor to The Cook Electric Company, Chicago, Ill. Electric switch. 1,699,517; Jan. 22.
- Baker, John S., assignor to Cook Electric Company, Chicago, Ill. Electric switch. 1,725,174; Aug. 20.
- Baker, Joseph C., Syracuse, N. Y. Warm-air distributor for furnaces. 1,719,682; July 2.
- Baker, Lewis S., Ossining, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Manufacturing electronic devices. 1,697,339; Jan. 1.
- Baker, Lewis S., Ossining, assignor to Manhattan Electrical Supply Company, Incorporated, New York, N. Y. Electronic device. 1,706,135; Mar. 19.
- Baker, Linnaeus E., assignor to Wayne Company, Fort Wayne, Ind. Liquid measuring and dispensing apparatus. 1,697,675; Jan. 1.
- Baker, Linnaeus E., assignor to Wayne Company, Fort Wayne, Ind. Liquid-dispensing apparatus. 1,712,323; May 7.
- Baker, Lloyd, Slayton, Minn., assignor to Kelly Bros. Co. Guiding device for tractors. 1,734,151; Nov. 5.
- Baker, Lonnie G., Mineral Wells, Tex. Ball shooting gallery. 1,736,244; Nov. 19.
- Baker, M. H., et al. (See Altmarl, G., and Campbell, assignors.)
- Baker Manufacturing Company, The. (See Baker, Rollyn H., assignor.)
- Baker Manufacturing Company, The. (See Staley, Raleigh H., assignor.)
- Baker, Mary E., Easton, Pa. Fish baking and lifting rack. 1,718,624; June 25.
- Baker Nagle Company. (See Nagle, Walter G., assignor.)
- Baker, Nelson M. (See Tully, G. L., and Baker.)
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Bridge for an ophthalmic mounting. Des. 78,558; May 21.
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Bridge for an ophthalmic mounting. Des. 79,008; July 23.
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Bridge for an ophthalmic mounting. Des. 79,220; Aug. 20.
- Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,720,814; July 16.
- Baker, Norval E., Blue Island, Ill., assignor to The Union Switch & Signal Company, Swissvale, Pa. Motor-controlling apparatus. 1,708,114; Apr. 9.
- Baker Oil Tools, Inc. (See Baker, Reuben C., assignor.)
- Baker, Oswell A., Monterey Park, Calif. Ventilated parachute. 1,714,753; May 28.
- Baker Perkins Company. (See Baker, George R., assignor.)
- Baker Perkins Company. (See Baker, G. R., Epps, and Perks, assignors.)
- Baker Perkins Company. (See Baker, G. R., and Paterson, assignors.)
- Baker Perkins Company. (See Dumbleton, Claude, assignor.)
- Baker Perkins Company. (See Eggert, Gustav B., assignor.)
- Baker Perkins Company. (See Hanson, J. C., and Eggert, assignors.)
- Baker Perkins Company. (See Head, Ronald, assignor.)
- Baker Perkins Company. (See Paterson, John C., assignor.)
- Baker Perkins Company. (See Pointon, John E., assignor.)
- Baker Perkins Company. (See Schmierer, Eugene, assignor.)
- Baker Perkins Company. (See Tessin, Arthur H., assignor.)
- Baker Perkins Company. (See Thurm, Richard, assignor.)
- Baker, Philip P., Chula Vista, Calif. Draft hitch for tractors. 1,735,719; Nov. 12.
- Baker Perkins Co. Inc. (See Bunce, John P., assignor.)
- Baker Perkins Company Incorporated. (See Dumbleton, Claude, assignor.)
- Baker Perkins Company Incorporated. (See Pointon, John E., assignor.)
- Baker Perkins Co., Inc. (See Prescott, William E., assignor.)
- Baker Perkins Co. Inc. (See Prescott, W. E., and Bunce, assignors.)
- Baker Perkins Co. Inc. (See Wilson, George D., assignor.)
- Baker-Raulang Company, The. (See Remde, Edward H., assignor.)
- Baker, Reuben C., Coalinga, Calif. Fishing apparatus for deep wells. 1,718,771; June 25.
- Baker, Reuben C., Coalinga, Calif., assignor to Baker Casing Shoe Company. Rotary core barrel. 1,720,877; July 16.
- Baker, Reuben C., Coalinga, Calif., assignor to Baker Casing Shoe Company. Method and mold for producing guiding, floating, and cementing shoes. 1,720,878; July 16.
- Baker, Reuben C., Coalinga, Calif., assignor to Baker Oil Tools, Inc. Combination fishing tool. 1,738,937; Dec. 10.
- Baker, Richard D., assignor to The Pittsfield Machine & Tool Company, Pittsfield, Mass. Work-holding device. 1,710,082; Apr. 23.
- Baker, Robert E., Cleveland Heights, Ohio. Storage bin. 1,706,514; Mar. 26.
- Baker, Robert E., Cleveland, Ohio, assignor to Arthur G. McKee & Company. Valve. 1,727,628; Sept. 10.
- Baker, Robert N., Fort Worth, Tex. Highway tower. Des. 77,458; Jan. 15.
- Baker, Rollyn, H., assignor to The Baker Manufacturing Company, Dayton, Ohio. Method and apparatus for dispensing ice cream cones. 1,704,695; Mar. 12.
- Baker, Rollyn H., assignor to The Baker Manufacturing Company, Dayton, Ohio. Coin-controlled vending mechanism. 1,722,189; July 23.
- Baker, Russell W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Insulation-forming machine. 1,734,192; Nov. 5.
- Baker, Russell W., and O. Shaw, Anderson, Ind., assignors to Delco-Remy Corporation, Dayton, Ohio. Machine for tightening screws. 1,716,365; June 11.
- Baker, Theodore E., Los Angeles, Calif., assignor, by mesne assignments, to Alomite Manufacturing Corporation, Chicago, Ill. Dispensing grease. 1,707,425; Apr. 2.
- Baker, Thomas W. (See Magee, Frederick W., assignor.)
- Baker, Walter J., Chicago, Ill. Combined cigarette holder and cap. Des. 78,723; June 18.
- Baker, Walter N., and A. R. Chicago, Ill. Photographic line printing. 1,704,356; Mar. 5.
- Baker, Walter R. G., Schenectady, N. Y., assignor to General Electric Company. Remote-control system. 1,733,045; Oct. 22.
- Baker, Walter R. G., Schenectady, N. Y., assignor to General Electric Company. Carrier-current system. 1,741,218; Dec. 31.
- Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
- Baker, Willard C., Leslie, Mich. Internal-combustion engine. 1,719,683; July 2.
- Baker, Willard L., San Antonio, Tex. Burglar alarm. 1,731,605; Oct. 15.
- Baker, William E., et al., trustees. (See Baker, William E., assignor.)
- Baker, William E., et al., trustees. (See Baker, W. E., and Aland, assignors.)
- Baker, William E., Asher, Okla. Drink dispenser. 1,720,753; July 16.



- Baker, William E., Erie, Pa. Steam generator. 1,712,806; May 14.
- Baker, William E., Erie, Pa., assignor to W. E. Baker and G. A. Frantz, as trustees of The Web Engineering Company, a trust estate, Cleveland, Ohio. Fluid-pressure control. 1,739,114; Dec. 10.
- Baker, William E., and R. C. Aland, assignors to W. E. Baker and G. A. Frantz, trustees of The Web Engineering Company, Cleveland, Ohio. Valve. 1,735,888; Nov. 19.
- Baker, William E., and R. C. Aland, assignors to W. E. Baker and G. A. Frantz, trustees of The Web Engineering Company, Cleveland, Ohio. Fluid-pressure engine. 1,741,141; Dec. 31.
- Baker, William H., Montreal, Quebec, Canada. Warp stop motion. 1,700,345; Jan. 29.
- Baker, William H., Jr., Cincinnati, Ohio. Power transmission. 1,711,220; Apr. 30.
- Baker, William H., Bradley, Ill. Corner lock for beds. 1,726,284; Aug. 27.
- Bakeries Service Corporation. (See Patterson, C. J., and Harrel, assignors.)
- Bakeries Service Corporation. (See Robinson, G. C., and Harrel, assignors.)
- Bakke, Alfred H. (See Winter, William, assignor.)
- Bakke, Hans A., Lynn, Mass., assignor to General Electric Company. Meter seal. 1,725,695; Aug. 20.
- Bakken, Herman E., assignor to American Magnesium Corporation, Niagara Falls, N. Y. Purifying light metals. 1,710,398; Apr. 23.
- Balcarr, John A., et al. (See Biesen, James H., assignor.)
- Balcarr, Otto, et al. (See Biesen, James H., assignor.)
- Balcarr, Martin C., Ponca City, Okla. Arm rest. 1,737,350; Nov. 26.
- Balch, Thomas V., Marmaroneck, N. Y. Lighting fixture. 1,702,888; Feb. 19.
- Balcom, Peter F., Worcester, Mass. Loom-shuttle check. 1,729,920; Oct. 1.
- Balder, Milton C., Yonkers, N. Y. Housing for taxi call signal. Des. 79,174; Aug. 13.
- Baldinger, Johann, Ambon-Estate, East Africa. Method and machine for cleaning and polishing fibers. 1,704,877; Mar. 12.
- Baldini, Alejandro, Buenos Aires, Argentina. Conveyer. 1,729,433; Sept. 24.
- Baldry, John B., Englewood, Mo. Darning and weaving device. 1,708,860; Apr. 9.
- Balduf, Bruno E., assignor to United States Gypsum Company, Chicago, Ill. Insulation. 1,723,989; Aug. 13.
- Balduf, Bruno E., assignor to United States Gypsum Company, Chicago, Ill. Acoustical wall support. 1,732,348; Oct. 22.
- Baldwin, Alice A. (See Hambleton, Hugh H., assignor.)
- Baldwin Chain & Mfg. Co. (See Klauke, Hermann, assignor.)
- Baldwin, Clarence D., Bellingham, Wash. Railroad gauge bridle. 1,736,031; Nov. 19.
- Baldwin, Clarence D., Bellingham, Wash. Splice bar. 1,736,032; Nov. 19.
- Baldwin, Clarence K., Scarsdale, and S. D. Robins, Woodmere, assignors to Robins Conveying Belt Co., New York, N. Y. Vibratory screen. 1,721,802; July 23.
- Baldwin, Clifford H., Lansing Mich. Manufacturing clips. 1,708,115; Apr. 9.
- Baldwin, Cloise H., Fort Worth, Tex. Pump jack. 1,713,461; May 14.
- Baldwin, Cloise H., assignor to Texas Steel Company, Fort Worth, Tex. Holdup and holddown. 1,703,713; Feb. 26.
- Baldwin, Cloise H., assignor to Texas Steel Company, Fort Worth, Tex. Pump-jack assembly. 1,710,602; Apr. 23.
- Baldwin, Cloise H., assignor to Texas Steel Company, Fort Worth, Tex. Swing. 1,734,845; Nov. 5.
- Baldwin Company, The. (See Tower, Herschel E., assignor.)
- Baldwin Company, The. (See Williams, J. G., and Schneider, assignors.)
- Baldwin Company, The. (See Zeltner, Harry M., assignor.)
- Baldwin, Earl F., assignor to American Fibre Corporation, Gardner, Mass. 1,697,898; Jan. 8.
- Baldwin, Earl F., assignor to American Fibre Corporation, Gardner, Mass. Strand cutter. 1,721,848; July 23.
- Baldwin, Earl F., assignor to American Fibre Corporation, Gardner, Mass. Reed. 1,721,849; July 23.
- Baldwin, Earl F., assignor to American Fibre Corporation, Gardner, Mass. Loom. 1,731,369; Oct. 15.
- Baldwin, Earl F., assignor to American Fibre Corporation, Gardner, Mass. Harness mechanism for looms. 1,734,513; Nov. 5.
- Baldwin, Edmond H., Oakland, Calif. Cooking plate. 1,698,870; Jan. 15.
- Baldwin, Eldon W., assignor to one-half to J. C. Sewell, Nampa, Idaho. Swivel for light and drop cords and the like. 1,720,619; July 9.
- Baldwin, Elnora E., Rand, Colo. Marcel hair waver. 1,724,249; Aug. 13.
- Baldwin Engineering Company, The. (See Baldwin, Ernest W., assignor.)
- Baldwin, Ernest W., Independence, assignor to The Baldwin Engineering Company, Kansas City, Mo. Straw spreader. 1,711,554; May 7.
- Baldwin, George D. (See Stevens, C. A., Baldwin, and Michaels.)
- Baldwin, George E., Plainfield, N. J., assignor to J. Robinson, Westmount, Quebec, Canada. Automatic train-pipe coupling head. 1,720,256; July 9.
- Baldwin, George E., Holton, Kans. Drag. 1,729,094; Sept. 24.
- Baldwin, George E., and A. Sinning, Holton, Kans. Hoist. 1,711,401; Apr. 30.
- Baldwin, George R., Los Angeles, Calif. Pressure-alarm device. 1,739,568; Dec. 17.
- Baldwin, Harold R., et al. (See Neumann, Herbert, assignor.)
- Baldwin, James P., Los Angeles, Calif. Lubricant. 1,737,555; Dec. 3.
- Baldwin, James V. (See Van Hise, Lester E., assignor.)
- Baldwin, Leon F. N., Edgewood, assignor of one-half to B. S. Clark, Providence, R. I. Street marker. 1,709,455; Apr. 16.
- Baldwin Locomotive Works, The. (See Rehfuess, William C., assignor.)
- Baldwin, Nathaniel. (See Jordan, A. M., and Baldwin.)
- Baldwin, Nathaniel, East Mill Creek, Utah. Acoustic diaphragm. 1,701,523; Feb. 12.
- Baldwin, Nathaniel, East Mill Creek, Utah. Loud-speaker. 1,726,533; Sept. 3.
- Baldwin, Nathaniel, East Mill Creek, Utah. Toy gun and projectile. 1,738,938; Dec. 10.
- Baldyzar, Stephen, Milwaukee, Wis. Spark arrester. 1,739,115; Dec. 10.
- Baldwin, Thomas A., Oyster Bay, N. Y. Radiator. 1,734,956; Nov. 12.
- Baldwin, Van V. (See Conrad, D. E., and Baldwin.)
- Baldwin, Wilbur M., administrator. (See Parsons, Ernest P.)
- Bales, James W. H., Coolidge, Ga. Trap. 1,703,288; Feb. 26.
- Balk, Joseph E., Detroit, Mich. Pencil and pen holder. 1,707,792; Apr. 2.
- Balk, Joseph J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Grille for loud speakers. Des. 77,872; Mar. 5.
- Balk, Joseph J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table shelf. Des. 78,325; Apr. 23.
- Balk, Joseph J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Bench standard. Des. 78,604; May 28.
- Balke, Clarence W., Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Electrolytic rectifier. 1,710,806; Apr. 30.
- Balke, Clarence W., Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Rectifier electrode. 1,724,065; Aug. 13.
- Ball, Albert P., assignor to Square D Company, Detroit, Mich. Switch inclosure. 1,706,134; Mar. 19.
- Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace doily. Des. 78,254; Apr. 16.
- Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace doily. Des. 78,255; Apr. 16.
- Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 78,429; May 7.
- Ball, Charles F., Brooklyn, N. Y. Rotary cutter. 1,699,944; Jan. 22.
- Ball, Charles F., Milwaukee, Wis. Traction tread. 1,706,473; Mar. 26.
- Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Sprocket chain. 1,705,352; Mar. 12.
- Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Pivoted charging subchute for concrete mixers. 1,708,647; Apr. 9.
- Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Adjustable support for loading skips. 1,712,447; May 7.
- Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Free-way valve for concrete-mixing machines. 1,720,197; July 9.
- Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Metal gear rim and making same. 1,736,758; Nov. 19.
- Ball, Charles F., assignor to Chain Belt Company, Milwaukee, Wis. Control mechanism for liquid-measuring apparatus. 1,739,477; Dec. 10.
- Ball, Edmund B. (See Hurst, J. E., and Ball.)
- Ball, Edward L., assignor to Burlington Brass Works, Burlington, Wis. Noiseless ball valve. 1,726,795; Sept. 3.
- Ball, George A. (See Augustin, E. J., and Gronlund, assignors.)
- Ball, Harry V., Montreal, Quebec, Canada, assignor to R. Hoe and Co., Inc., New York, N. Y. Web-roll-shifting mechanism. 1,716,511; June 11.
- Ball, Harry V., Concord, Mass., assignor to R. Hoe & Co., Inc., New York, N. Y. Web-roll-controlling mechanism. 1,716,613; June 11.
- Ball, Harry V., Concord, Mass., assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Roll changer. 1,716,812; June 11.
- Ball, Harry V., Concord, Mass., and R. D. Smalley, Brooklyn, assignors to R. Hoe & Co., Inc., New York, N. Y. Web-roll-controlling mechanism. 1,739,116; Dec. 10.
- Ball, Harry V., Concord, Mass., assignor to R. Hoe & Co., Inc., New York, N. Y. Multiunit printing machine. 1,741,122; Dec. 24.
- Ball, Henry P., New York, N. Y. Music-recording instrument. 1,716,811; June 11.
- Ball, Howard, Long Beach, Calif. Adjustable scaffolding. 1,730,028; Oct. 1.



- Ball, William, Wallington, England. Calculating machine, cash register, and the like. 1,742,053; Dec. 31.
- Ballantine, Stuart, and L. M. Hull, assignors to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Demodulator and method of demodulation. 1,698,668; Jan. 8.
- Ballantine, Stuart, assignor to Radio Frequency Laboratories, Inc., Boonton, N. J. Electrical communication circuits. 1,723,719; Aug. 6.
- Ballantine, Stuart, White Haven, Pa., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Reducing retroactive currents in audion amplifiers. 1,724,819; Aug. 13.
- Ballantyne, Robert D., Atlanta, Ga. Pipe support. 1,703,605; Feb. 26.
- Ballard, Arthur H., Incorporated. (See Ballard, Arthur H., assignor.)
- Ballard, Arthur H., assignor to Arthur H. Ballard, Incorporated, Boston, Mass. Window. 1,700,919; Feb. 5.
- Ballard, Ernest S., Oakland, Calif., assignor to Ballard Process Co. Printing form and producing same. Re-17,179; Jan. 1.
- Ballard, Harrie A., Beverly, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me. Cutting machine. 1,709,336; Apr. 16.
- Ballard, Harrie A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. 1,737,698; Dec. 3.
- Ballard, Herbert T., Norristown, Pa. Apparatus for dyeing yarn. 1,710,443; Apr. 23.
- Ballard Process Co. (See Ballard, Ernest S., assignor.)
- Ballard, William Edward. (See Fowler, Leonard H., assignor.)
- Ballash, Joseph L., Cleveland, assignor to The Sterling Grinding Wheel Company, Tiffin, Ohio. Sectional grinding wheel. 1,714,754; May 28.
- Ballauf, Fritz, Elberfeld, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Sulphur dyestuffs from dihydroindole-indophenolic bodies. 1,725,046; Aug. 20.
- Ballaz, Peter, West New York, N. J. Life-saving device for aeroplanes and ships. 1,733,932; Oct. 29.
- Balle, Gerhard. (See Daimler, K., Balle, and Just.)
- Balle, Gerhard. (See Schmidt, A., Balle, and Franz.)
- Ballengee, Homer. (See Brown, Henry A., assignor.)
- Ballenger, Richard A., Hubbard Woods, assignor to Membak Building Appliances Co., Chicago, Ill. Building construction. 1,701,714; Feb. 12.
- Ballerstedt, William D., Los Angeles, Calif. Rotary steam engine. 1,715,490; June 4.
- Ballert, Otto, Berlin, Germany. Tipping device for vehicles. 1,705,892; Mar. 19.
- Ballgoe, Edward J., Midwest, Wyo. Oil burner. 1,714,654; May 28.
- Balliet, A. H., Corporation. (See Kleinsmith, H. B., Neely, and Doll, assignors.)
- Ballman, Edwin C., St. Louis, Mo. Rectifier for alternating currents. 1,699,602; Jan. 22.
- Ballman, Edwin C., St. Louis, Mo. Commutator short-circuiting device for electric motors. 1,724,547; Aug. 13.
- Ballman, Edwin C., St. Louis, Mo. Single-phase motor. 1,725,558; Aug. 20.
- Ballou, B. A., & Co. (See Ballou, F. A., Jr., and Morehouse, assignors.)
- Ballou, B. A., & Co. (See Ballou, Frederick A., assignor.)
- Ballou, B. A., & Co. (See Morehouse, Eugene, assignor.)
- Ballou, Eugene H., assignor of one-half to Lorraine Manufacturing Company, Pawtucket, R. I. Pneumatic weft-introducing mechanism for looms. 1,721,940. July 23.
- Ballou, Franklin B., Salem, Mass. Brocading machine. 1,709,967; Apr. 23.
- Ballou, Franklin B., and J. Y. Lake, assignors, by mesne assignments, to Standard Products Corporation, Salem, Mass. Machine for ornamenting leather. 1,700,968; Feb. 5.
- Ballou, Frederick A., Nayatt, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Collar holder. 1,733,112; Oct. 29.
- Ballou, Frederick A., Jr., and E. Morehouse, assignors to B. A. Ballou & Co., Inc., Providence, R. I. Clasp. 1,737,549; Dec. 3.
- Ballou, Howard M., assignor to R. Blackinton & Co., North Attleboro, Mass. Pocket igniter. Des. 78,077; Mar. 26.
- Ballreick, Charles A., Los Angeles, Calif. Syringe. 1,720,198; July 9.
- Balmat, Cecil H., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Furnace. 1,699,732; Jan. 22.
- Balmer, J. H., Co. (See Balmer, John H., assignor.)
- Balmer, John H., Maplewood, assignor to J. H. Balmer Co., Newark, N. J. Combination bathroom fixture. Des. 78,498; May 14.
- Balog, Jacques. (See Elsinger, Rudolf, assignor.)
- Balogh, Louis, Fort Erie, Ontario, Canada. Automobile safety device. 1,699,271; Jan. 15.
- Bals, George F., Brooklyn, N. Y. Cluster-light fixture for gasoline pumps. Des. 78,375; Apr. 30.
- Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Variable-capacity pump. 1,697,041; Jan. 1.
- Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Hydraulic cushioning device. 1,697,748; Jan. 1.
- Balt Manufacturing Company. (See Bennett, Charles E., assignor.)
- Balthaser, Thomas C., Kansas City, Mo. Combined light and cord holding device for pressing boards. 1,738,514; Dec. 10.
- Balthis, Ben D. (See Thomas, J. V., and Balthis.)
- Baltimore Enamel & Novelty Company, The. (See Little, Harold E., assignor.)
- Baltimore Paper Company. (See Berkowitz, Eugene B., assignor.)
- Baltimore Paper Company. (See Dunnebie, Max, assignor.)
- Baltimore Stamping & Enameling Co. (See Pfalzgraf, Charles F., assignor.)
- Baltimore Valve Corporation. (See Peterson, Walker F., assignor.)
- Baltimore Valve Corporation. (See Walter, Albert U., assignor.)
- Balton, James L., Baltimore, Md. Ice-cream cone. Des. 80,066; Dec. 3.
- Balton, James L., Baltimore, Md. Ice-cream cone. Des. 80,067; Dec. 3.
- Baltzley, Louis E., Glen Ridge, N. J. Speaker unit. 1,701,319; Feb. 5.
- Baltzley, Oren F. (See Jones, R. E., and Baltzley.)
- Balz-Erzröstung Gesellschaft mit beschränkter Haftung. (See Balz, Georg, assignor.)
- Balz, Georg, assignor to Balz-Erzröstung Gesellschaft mit beschränkter Haftung, Gleiwitz, Germany. Mechanical roasting furnace. 1,734,552; Nov. 5.
- Balze, Paul. (See Mersfelder, F. J., and Balze.)
- Balzano, Oreste. (See Carmichael, A. J., and Balzano.)
- Balzi, Clemente, and P. Juravcoff, San Francisco, Calif. Shaping machine. 1,705,602; Mar. 19.
- Bamag-Mequin A.-G. (See Binte, Hans, assignor.)
- Bamford, Alfred C., New Brighton, England, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator or the like. 1,729,758; Oct. 1.
- Bamford, Cyril J. (See Bamford, Joseph and C. J.)
- Bamford, Frank L., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp. 1,714,755; May 28.
- Bamford, Joseph and C. J., Uttoxeter, England. Mowing machine. 1,729,470; Sept. 24.
- Bammer, Carl P., Venice, Calif. Edge trimmer for shoe soles. 1,737,351; Nov. 26.
- Bancalari, Ignacio L., Mexico, Mexico. Talking-machine drive. 1,738,417; Dec. 3.
- Bancroft, Albert F., West Newton, assignor to Bancroft Walker Company, South Boston, Mass. Shoe and method of making the same. 1,722,029; July 23.
- Bancroft, Joseph, & Sons Co. (See Berry, William, assignor.)
- Bancroft, Joseph, & Sons Co. (See Macadam, John, assignor.)
- Bancroft, Joseph, & Sons Co. (See Wood, Winthrop B., assignor.)
- Bancroft Walker Company. (See Bancroft, Albert F., assignor.)
- Bancroft Walker Company. (See Ray, George M., assignor.)
- Bancroft, William H. (See Silvester, R. H., and Bancroft.)
- Bancroft, William H., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe stiffener. 1,708,043; Apr. 9.
- Bancroft, William H., W. J. Lund, and M. G. Hill, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe stiffener and manufacturing it. 1,704,818; Mar. 12.
- Band, Henry C., assignor to C. H. Hanson Company, Chicago, Ill. Indicator. 1,735,489; Nov. 12.
- Bandini, Julius C., Flushing, N. Y. Car-poster panel. 1,728,850; Sept. 17.
- Bandoly, Erich, assignor to Central Scientific Company, Chicago, Ill. Vacuum pump. 1,719,747; July 2.
- Bandoly, Erich, and H. P. Sachse, Chicago, Ill., assignor to Central Scientific Company. Bunsen burner. 1,723,002; Aug. 6.
- Bandow, Ada, Cedar Falls, Iowa. Fuel-feeding device. 1,724,988; Aug. 20.
- Bandt, Edmuth F., Chicago, Ill. Photograph exhibitor. 1,754,790; Nov. 5.
- Bane, Robert D. (See Fentress, G. E., Bane, and Black.)
- Baney, Lewis W., and E. G. Messer, Elma, Wash. Separating and concentrating mechanism. 1,719,958; July 9.
- Banfield, Frederic E., Jr., Saco, Me., and F. O. Hoagland, Bridgeport, Conn., assignors to Saco-Lowell Shops, Boston, Mass. Oil cup. 1,733,641; Oct. 29.
- Banfield, James W., Toronto, Ohio, assignor to Follanshee Brothers Company, Pittsburgh, Pa. Polishing device for furnace conveyors. 1,741,494; Dec. 31.
- Banfield, Thomas H., Portland, Oreg. Casing for coal-burning stokers. Des. 80,159; Dec. 24.
- Bang, Arthur W., Terrell, Tex. Suit box and protecting suits from moths. 1,727,092; Sept. 3.
- Bangert, Charles A., London, Ohio. Radiator for hot-air furnaces. 1,731,807; Oct. 15.
- Bancert, Will. (See Patten, J., and Bangert.)
- Bangs, Edwin Q., and W. Ernst, assignors to Hamilton Beach Mfg. Co., Racine, Wis. Motor mounting. 1,702,716; Feb. 19.
- Bangs, Owen M., Brooklyn, N. Y. Seal lock. 1,711,339; Apr. 30.
- Bangs, Ralph C., assignor to G. H. Pulsifer Co., Providence, R. I. Shoe buckle. 1,728,281; Sept. 17.



- Banigan, Thomas F. (See Bassett, H. P., and Banigan.)  
 Banister, Frederick J., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite gear. 1,725,124; Aug. 20.  
 Bank of America, The, et al., executors. (See Sperry, Lawrence B.)  
 Bankers Development Corporation. (See Doolittle, Morgan O., assignor.)  
 Bankers Savings & Credit System Company, The. (See Beears, C. L., and Habart, assignors.)  
 Bankers Supply Company. (See Williams, Harry S., assignor.)  
 Banks, Harry P. (See Laucks, I. F., Banks, and Rippey.)  
 Banks, Harry P. (See Rippey, H. F., Davidson, Cone, Laucks, and Banks.)  
 Banks, Harry R. (See Rollins, L. P., and Banks.)  
 Banks, Henry W., 3d. (See Jones, L. C., Loomis, and Banks.)  
 Banks, John N., West Wycombe, assignor to Linotype and Machinery Limited, London, England. Type bed of printing machines. 1,728,386; Sept. 17.  
 Banks, Joseph L., Baltimore, Md. Musical instrument. 1,720,991; July 16.  
 Banks, Robert, Allico, British Columbia, Canada. Bullhook device. 1,734,610; Nov. 5.  
 Banks, Robert W., El Dorado, Ark. Jarring device for pump structures. 1,739,204; Dec. 10.  
 Banks, William H., Winthrop, Mass. Dirigible airship. 1,730,910; Oct. 8.  
 Banks, William, Kendal, and W. Brooke, Altrincham, assignors to Isaac Braithwaite & Son, Engineers Ltd., Kendal, England. Control gear for washing machines. 1,716,679; June 11.  
 Bankston, John C., Shreveport, La. Adjustable wing for aeroplanes. 1,710,137; Apr. 23.  
 Banner, Otto A., Milwaukee, Wis. Oil-engine power plant. 1,710,962; Apr. 30.  
 Banner, Otto A., assignor to The Falk Corporation, Milwaukee, Wis. Fuel-injection system for oil engines. 1,703,853; Mar. 5.  
 Banner Rock Corporation. (See Hall, Charles C., assignor.)  
 Banner Rock Corporation. (See Huffine, Kenneth W., assignor.)  
 Banning, Ephraim. (See Edelman, Philip E., assignor.)  
 Banning, Thomas A., Jr., Wilmette, Ill. Transmission device. 1,708,409; Apr. 9.  
 Banning, Thomas A., Jr., Wilmette, Ill. Steering mechanism and the like. 1,710,399; Apr. 23.  
 Banning, Thomas A., Jr., Wilmette, Ill. Pumping and metering apparatus. 1,715,735; June 4.  
 Banning, Thomas A., Jr., Wilmette, Ill. Pumping and metering apparatus. 1,722,653; July 30.  
 Banning, Thomas A., Jr., Wilmette, Ill. Meter and the like. 1,729,144; Sept. 24.  
 Banninga, Herman P., Muskegon, Mich. Nozzle construction. 1,713,734; May 21.  
 Bannister, Bryant, assignor to Bannister Motor Appliance Company, Pittsburgh, Pa. Supplying heat to the mixture delivered to internal-combustion engines. 1,735,720; Nov. 12.  
 Bannister, Bryant, Pittsburgh, Pa. Valve. 1,738,135; Dec. 3.  
 Bannister, Frank A., Selkirk, Manitoba, Canada. Nail claw. 1,723,597; Aug. 6.  
 Bannister Motor Appliance Company. (See Bannister, Bryant, assignor.)  
 Bannon, Thomas C., Los Angeles, Calif. Well pump. 1,738,136; Dec. 3.  
 Banschbach, Edward A., Chicago, Ill. Buffer. 1,698,182; Jan. 8.  
 Banschbach, Edward A., Chicago, Ill. Safety gate. 1,698,424; Jan. 8.  
 Banschbach, Edward A., Chicago, Ill. Protector for automobiles. 1,734,758; Nov. 5.  
 Banta, Clifford. (See Wendt, G. L., and Banta.)  
 Banta, Len A., Clearfield, Pa. Refrigerant tank. 1,707,071; Mar. 26.  
 Banta, Len A., Clearfield, Pa. Refrigerator display counter. 1,729,058; Sept. 24.  
 Bany, Herman. (See Anderson, A. E., and Bany.)  
 Bany, Herman, Scotia, N. Y., assignor to General Electric Company. Automatic control system. 1,725,696; Aug. 20.  
 Bany, Herman, Yeadon, Pa., assignor to General Electric Company. Automatic control system. 1,698,292; Jan. 8.  
 Bany, Herman, Yeadon, Pa., assignor to General Electric Company. System of electric distribution. 1,718,517; June 25.  
 Bany, Herman, and H. T. Seeley, Yeadon, Pa., assignors to General Electric Company. Prime-mover plant. 1,717,302; June 11.  
 Bany, Herman, Yeadon, Pa., assignor to General Electric Company. System of electric distribution. 1,729,699; Oct. 1.  
 Bany, Herman, and H. T. Seeley, Yeadon, Pa., assignors to General Electric Company. Regulating system. 1,725,697; Aug. 20.  
 Barb, Clark F., Golden, Colo. Apparatus for the reclamation of lubricating oils. 1,721,328; July 16.  
 Barbagallo, Alfredo, West Palm Beach, Fla. Foot and arch support. 1,710,856; Apr. 30.  
 Barbara, Stanley, New York, N. Y. Key case. 1,715,348; June 4.  
 Barbarite Corporation. (See Barrett, Harold G., assignor.)  
 Barbarou, Marius J.-B., Paris, France. Speed-reducing gear. 1,702,244; Feb. 19.  
 Barbee Hayes Co. (See Harmon, Kenneth R., assignor.)  
 Barber Asphalt Company, The. (See Barnes, Eugene L., assignor.)  
 Barber Asphalt Company, The. (See Browne, Frank A., assignor.)  
 Barber Asphalt Company, The. (See Darrow, Marius S., assignor.)  
 Barber-Colman Company. (See Dewey, Ritchie P., assignor.)  
 Barber-Colman Company. (See Edgar, John, assignor.)  
 Barber Asphalt Company, The. (See Forrest, Charles N., assignor.)  
 Barber Asphalt Company, The. (See Freegard, William, assignor.)  
 Barber Asphalt Company, The. (See Heath, Ralph C., assignor.)  
 Barber, Herbert G., et al. (See Marion, Frank, assignor.)  
 Barber Asphalt Company, The. (See Ritter, George, assignor.)  
 Barber Asphalt Company, The. (See Weaver, Wayne W., assignor.)  
 Barber, Charles C., Freeport, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Contactor drum for telephone central-office equipment. 1,724,989; Aug. 20.  
 Barber-Colman Company. (See Colman, Howard D., assignor.)  
 Barber-Colman Company. (See Cummings, Preston W., assignor.)  
 Barber-Colman Company. (See Edgar, John, assignor.)  
 Barber-Colman Company. (See Gravel, David, assignor.)  
 Barber-Colman Company. (See Peterson, Burt A., assignor.)  
 Barber, George G., New Rochelle, N. Y., assignor to Continental Baking Company, Wilmington, Del. Food package. 1,705,849; Mar. 19.  
 Barber, George G., New York, N. Y., assignor to Continental Baking Company, Wilmington, Del. Pastry-filling machine. 1,737,069; Nov. 26.  
 Barber, George H., New Rochelle, and A. Schuch, assignors, by mesne assignments, to Bond Electric Corporation, Brooklyn, N. Y. Flash light. 1,711,667; May 7.  
 Barber-Greene Company. (See Barber, Harry H., assignor.)  
 Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Conveyor truck. 1,719,919; July 9.  
 Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Portable conveyor. 1,728,652; Sept. 17.  
 Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Scraper and deflector for belt pulleys. 1,729,322; Sept. 24.  
 Barber, Herbert. (See Tate, H. E., King, and Barber.)  
 Barber, Herbert C., et al. (See Smith, James R., assignor.)  
 Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Signature-delivery mechanism for printing presses. 1,701,943; Feb. 12.  
 Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet cutting and handling machine. 1,724,899; Aug. 20.  
 Barber, Howard M., Pawcatuck, assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Rotary web-printing press. 1,732,215; Oct. 22.  
 Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Device for eliminating the printing of impressions on impression-cylinder packings. 1,740,058; Dec. 17.  
 Barber, Jesse D., Groveland, N. Y. Mower and binder guard. 1,726,378; Aug. 27.  
 Barber, Lewis R., Fresno, Calif. Portable electric heating device. 1,706,515; Mar. 26.  
 Barber, M. W., et al., board of trustees. (See Ellis, Axel E., assignor.)  
 Barber, Sherman, Oak Park, Ill. Process and apparatus for tumbling. 1,702,759; Feb. 19.  
 Barber, Tony A. (See Miller, Frank, assignor.)  
 Barber, William, Brooklyn, N. Y. Shock absorber. 1,722,782; July 30.  
 Barber, William, Brooklyn, N. Y. Hand valve dresser. 1,728,918; Sept. 24.  
 Barber, William J., assignor to The E. & N. Manufacturing Company, Delphos, Ohio. Dust mop. 1,706,019; Mar. 19.  
 Barber, William J., assignor to The Delphos Mop Company, Delphos, Ohio. Wringer mop. 1,709,929; Apr. 23.  
 Barber, William J., assignor to Delphos Doll Company, Delphos, Ohio. Electric-lighting attachment. 1,731,241; Oct. 15.  
 Barbet, Emile A., Paris, France. Continuous rectification of liquids at high boiling point. 1,722,322; July 30.  
 Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Cup. 1,714,121; May 21.  
 Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Paper cup. 1,715,025; May 28.  
 Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co., Chicago, Ill. Cup dispenser. 1,716,753; June 11.  
 Barbieri, Cesare, and P. Carpenter, Chicago, Ill. Machine for making photographic prints. 1,721,850; July 23.  
 Barbosa, Quintino, Brighton Beach, assignor of one-half to C. Altman, Brooklyn, N. Y. Swimming device. 1,702,681; Feb. 19.  
 Barbour, John A., et al. (See Lyon, Harry, assignor.)



- Barbour, Perley E. (See Gilson, Lorenzo H., assignor.)  
 Barbour, Perley E. (See Greene, Percy W., assignor.)  
 Barbour, Perley E. (See Lyon, Harry, assignor.)  
 Barbour, Perley E. (See Lyon, H., and Barbour, assignors.)  
 Barbour, Perley E. (See Lyon, H., and Gilson, assignors.)  
 Barbour, Perley E., et al. (See Lyon, Harry, assignor.)  
 Barbour, Roland M., and H. H. Knipe, Lawrenceville, Ill. Furnace. 1,710,444; Apr. 23.  
 Barbour Welting Company. (See Gilson, Lorenzo H.)  
 Barbour Welting Company. (See Greene, Percy W.)  
 Barbour Welting Company. (See Lyon, Harry, assignor.)  
 Barbour Welting Company. (See Lyon, H., and Barbour, assignors.)  
 Barbour Welting Company. (See Lyon, H., and Gilson.)  
 Barcalo Manufacturing Company. (See Vallone, Charles, assignor.)  
 Barclay, Arthur, North Vancouver, British Columbia, Canada. Fish lure. 1,708,825; Apr. 9.  
 Barclay, Gustaf I., assignor to Detroit Steel Products Company, Detroit, Mich. Glazing clip. 1,709,800; Apr. 16.  
 Barclay, William R., and F. Ricks, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes and soles for use in such methods. 1,708,962; Apr. 16.  
 Barclay, Wright, New York, N. Y. Automobile body for invalids. 1,717,303; June 11.  
 Barclay, Gaylord A., South Orange, N. J. Corset and similar garment. 1,718,772; June 25.  
 Barco Manufacturing Company. (See Helmboltz, H., and Bertram, assignors.)  
 Barcus, Sylvanus, Lincoln, Nebr. Adjustable coal chute. 1,724,548; Aug. 13.  
 Barcy, George M., Ridgefield, N. J. Radio loud-speaker. Des. 78,430; May 7.  
 Barcy, George M., Ridgefield, N. J. Radio loud-speaker. Des. 78,431; May 7.  
 Bard, Francis N., Highland Park, Ill. Making gaskets. 1,702,957; Feb. 19.  
 Bard, Francis N., Highland Park, Ill. Making gaskets. 1,702,958; Feb. 19.  
 Bardello, Antonio, Brooklyn, assignor to Ainsworth Buck, Incorporated, New York, N. Y. Safety anchor. 1,738,029; Dec. 3.  
 Barden, Fred, Los Angeles, Calif. Fuel-control attachment for carburetors. 1,711,767; May 7.  
 Bardet, George A., Berkeley, Calif., assignor to M. J. B. Co. Can. 1,719,581; July 2.  
 Bardons and Oliver. (See Hornberger, Earl J.)  
 Bardons & Oliver. (See Hornberger, Earl J., assignor.)  
 Bareham, Harry J., assignor, by mesne assignments, to C. T. Marton, Rochester, N. Y. Traffic signal. 1,725,244; Aug. 20.  
 Barfoed, Svend, San Francisco, Calif. Butterfly valve. 1,706,020; Mar. 19.  
 Bargeboer, Adolf, Scheveningen, Netherlands. Tobacco-feeding device. 1,709,299; Apr. 16.  
 Barger, William R., Pasadena, Calif., assignor to the Government and the People of the United States of America. Treatment of fruit for the prevention of decay. 1,704,072; Mar. 5.  
 Barger, William R., Pasadena, Calif., assignor to the Government and the People of the United States of America. Treatment of fruit for the prevention of decay. 1,704,073; Mar. 5.  
 Barger, William R., Pasadena, Calif., assignor to the Government and the People of the United States of America. Treatment of fruit for the prevention of decay. 1,704,456; Mar. 5.  
 Bargesser, John H., McKees Rocks, Pa. Lubricating device. 1,736,692; Nov. 19.  
 Baribault, Lucien J., New Haven, Conn. Window screen. 1,732,628; Oct. 22.  
 Barill, Arthur E. H., Los Angeles, Calif. and T. F. von Dorn, New York, N. Y.; said Barill assignor to said von Dorn. Rail anchor for railways. 1,704,647; Mar. 5.  
 Baring-Gould, Harriet R., Minneapolis, Minn. Guard. 1,731,974; Oct. 15.  
 Bario Metal Corporation. (See Fink, C. G., and Lowe, assignors.)  
 Bariquand, Georges, Paris, France, assignor to S. Smith and Sons Motor Accessories Ltd., London, England. Carburetor. 1,715,269; May 28.  
 Barkby, Harry, New Castle, Pa., assignor to Stearnes Company, Chicago, Ill. Plate. Des. 79,618; Oct. 22.  
 Barkeij, Jean A. H., Los Angeles, Calif. Vacuum feed device. 1,708,861; Apr. 9.  
 Barkeij, Jean A. H., Los Angeles, Calif. Vacuum feed system. 1,719,817; July 2.  
 Barkeij, Jean A. H., Hollywood, Calif. Internal-combustion engine. 1,722,950; July 30.  
 Barkeij, Jean A. H., Los Angeles, Calif. Internal-combustion engine. 1,722,951; July 30.  
 Barkeij, Jean A. H., Washington, D. C. Internal-combustion engine. 1,741,355; Dec. 31.  
 Barkelew Electric Manufacturing Company, The. (See McLaughlin, William E., assignor.)  
 Barker, A. P., et al. (See Williams, French B., assignor.)  
 Barker Bros., Incorporated. (See Anderson, Daniel G., assignor.)  
 Barker Bros. Inc. (See Herberg, Edward S., assignor.)  
 Barker, Dyson, assignor to Whitin Machine Works, Whitinsville, Mass. Top comb. 1,727,803; Sept. 10.  
 Barker, Edwin H., Moylan, Pa. Dispensing tube. 1,733,712; Oct. 29.  
 Barker, Erastus B., Orange, assignor to L. A. Myers, Jr., Inc., Newark, N. J. Buckle. Des. 79,544; Oct. 8.  
 Barker, Eugene. (See Speck, W. C., and Barker.)  
 Barker, Eugene. (See Speck, W. C., Barker, Whipple, and Dierker.)  
 Barker Factory, Inc., The. (See Barker, Merrill G., assignor.)  
 Barker, Harry B., assignor to Motograph Corporation of America, Chicago, Ill. Display device. 1,728,743; Sept. 17.  
 Barker, Harry B., assignor to Motograph Corporation of America, Chicago, Ill. Display device. 1,729,323; Sept. 24.  
 Barker, Harry J., Chicago, Ill. Handhole cover. 1,721,683; July 23.  
 Barker, Joseph R. (See Mowry, E., and Barker.)  
 Barker, Percy E., assignor, by mesne assignments, to Cinderella Washing Machine Company, Cleveland, Ohio. Washing machine. 1,731,517; Oct. 15.  
 Barker, Merrill G., assignor to The Barker Factory, Inc., Norwalk, Conn. Marine engine. 1,697,101; Jan. 1.  
 Barker, Seth S., and A. W. Bruce, Ottumwa, Iowa. Semi-scalding fowls. 1,730,964; Oct. 8.  
 Barker, Sydney P., New York, N. Y. Jack. 1,708,717; Apr. 9.  
 Barker, Theodore E. (See Skaer, A. H., Barker, and Clark.)  
 Barker, Theodore E. (See Skaer, A. H., Barker, Katterjohn, and Clark.)  
 Barker, William S., Pana, Ill. Farrowing apparatus. 1,737,211; Nov. 26.  
 Barker, Ward T. (See von Pagenhardt, M. H., and Barker.)  
 Barker, Ward T., Kansas City, Mo. Furnace. 1,712,642; May 14.  
 Barker, William M., Canton, Ohio. Coal-dust feeder and mixer. 1,697,585; Jan. 1.  
 Barker, William T., Jr., assignor to Hartford-Empire Company, Hartford, Conn. Ware-transferring mechanism. 1,705,955; Mar. 19.  
 Barkley, William B., Newton, Mass. Golf club. 1,715,586; June 4.  
 Barks, Frank S., St. Louis, Mo. Air engine. 1,704,238; Mar. 5.  
 Barks, Frank S., St. Louis, Mo. Dispensing device for lubricants and the like. 1,708,781; Apr. 9.  
 Barks, Frank S., St. Louis, Mo. Dispensing apparatus. 1,714,122; May 21.  
 Barks, Frank S., St. Louis, Mo. Lubricating apparatus. 1,733,441; Oct. 29.  
 Barschat, Henry. (See Gorrell, William R., assignor.)  
 Barley, Harry, assignor to Enterprise Oil Burner Company, San Francisco, Calif. Oil-burner nozzle. 1,735,490; Nov. 12.  
 Barlin, Montague H., Camden Town, London, England. Absorbent liner or inner tube for tobacco pipes, cigar and cigarette tubes. 1,738,554; Dec. 10.  
 Barlow, Bronson, Madison, Wis. Fruit product and making the same. 1,717,489; June 18.  
 Barlow, Harry, Port Madison, assignor to Barlow Marine Elevator Co. Inc., Seattle, Wash. Marine elevator. 1,698,209; Jan. 8.  
 Barlow, Harry, Port Madison, assignor to Barlow Marine Elevator Co. Inc., Seattle, Wash. Marine elevator. 1,716,680; June 11.  
 Barlow, John T. (See Hauck, H. B., and Barlow.)  
 Barlow, Joseph S., Salt Lake City, Utah. Lighting device. 1,735,103; Nov. 12.  
 Barlow, Lester P., Detroit, Mich. Fuel-supplying system. 1,736,033; Nov. 19.  
 Barlow, Lester P., Detroit, Mich. Rotary pump. 1,733,345; Dec. 3.  
 Barlow, Lester P., Detroit, Mich., and R. G. Breene, Dayton, Ohio. Cooling system for internal-combustion engines. 1,730,111; Oct. 1.  
 Barlow Marine Elevator Co. Inc. (See Barlow, Harry, assignor.)  
 Barnaby, James C., Westerleigh, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,719,643; July 2.  
 Barnard, Dudley J., Barking, England. Grab. 1,705,956; Mar. 19.  
 Barnard, Harry, assignor to Union Draft Gear Co., Chicago, Ill. Reinforced friction member for draft gears. 1,726,796; Sept. 3.  
 Barnard, Harry, and J. R. Caldwell, assignors to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,702,032; Feb. 12.  
 Barnard, Roy R., Long Beach, Calif. Sash fastener. 1,718,995; July 2.  
 Barnard, Samuel G., Seattle, Wash. Load-elevating truck. 1,733,988; Oct. 29.  
 Barnay, Antoine, Paris, France. System for transmitting electrical impulses. 1,716,944; June 11.  
 Barnebey, Oscar L. (See Coates, Charles E., assignor.)  
 Barnebey, Oscar L., Columbus, Ohio, assignor to American Solvent Recovery Corporation. Apparatus for the recovery of gases and vapors. 1,737,822; Dec. 3.  
 Barnes, Alvin P., assignor of one-half to H. H. O'Hara, Minneapolis, Minn. Fruit holder. 1,720,115; July 9.  
 Barnes, Charles B., et al, executors. (See Scott, R. W., and Page.)



- Barnes, Claude E., and J. A. Johnson, Poteau, Okla. Connecting-rod and piston construction. 1,739,705; Dec. 17.
- Barnes Drill Company. (See Johnson, Albert M., assignor.)
- Barnes, Eugene L., Watertown, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Refrigerator. 1,699,681; Jan. 22.
- Barnes, Eugene L., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Refrigerating apparatus. 1,704,030; Mar. 5.
- Barnes, Eugene L., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Refrigerating apparatus. 1,713,639; May 21.
- Barnes, Eugene L., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Automatic valve. 1,714,756; May 28.
- Barnes, Eugene L., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Refrigerating apparatus. 1,719,417; July 2.
- Barnes, Florence L., et al. (See Hall, Frederick M., assignor.)
- Barnes, Horace. (See Prentice, Rudolph B., assignor.)
- Barnes, Horatio N., London, England. Roof of motor cars and like vehicles of the inclosed or saloon type. 1,738,060; Dec. 3.
- Barnes, Howard D. (See Bausinger, H. C., jr., and Barnes.)
- Barnes, Irving, Westwood, N. J. Musical-instruction device. 1,725,844; Aug. 27.
- Barnes, James H., Montgomery County, assignor to Dayton Curvometer Products Company, Dayton, Ohio. Gear-cutting machine. 1,724,167; Aug. 13.
- Barnes, James H., assignor to Dayton Curvometer Products Company, Dayton, Ohio. Gear-cutting machinery. 1,724,168; Aug. 13.
- Barnes, James H., assignor to Dayton Curvometer Products Company, Dayton, Ohio. Bevel-gear-cutting machinery. 1,724,169; Aug. 13.
- Barnes, John L., Whitville, Ohio. Lifting jack. 1,733,480; Oct. 29.
- Barnes & Jones. (See Fernald, Charles F., assignor.)
- Barnes & Jones. (See Jones, William T., assignor.)
- Barnes, Lew. (See Stafford, Lewis F., assignor.)
- Barnes, Lewis, Farmington, Mich. Permanent loose-leaf binder. 1,708,492; Apr. 9.
- Barnes, Lewis, Farmington, Mich. Loose-leaf binder. 1,738,223; Dec. 3.
- Barnes, Llewellyn T., assignor to The Gem Engineering Corporation, Hempstead, N. Y. Switching apparatus. 1,731,808; Oct. 15.
- Barnes, Nathaniel C. (See Cocks, Harry J., assignor.)
- Barnes, Otis A. (See Adams, R., and Barnes.)
- Barnes, Robert J., Philadelphia, Pa. Flask-filling machine for use in foundries. 1,721,063; July 16.
- Barnes, Robert O., Phoenix, Ariz. Razor. 1,736,386; Nov. 19.
- Barnes Scale Company. (See King, Bert W., assignor.)
- Barnes, Stuart C., Detroit, Mich. Tire carrier. 1,699,518; Jan. 22.
- Barnes, Thomas R., Beaver, Okla. Wired radiocabinet. 1,719,284; July 2.
- Barnes, Wallace Co., The. (See Nikolais, John R., assignor.)
- Barnes, Walter E., Binghamton, assignor to Endicott Johnson Corporation, Endicott, N. Y. Textile fabric or the like. Des. 78,432; May 7.
- Barnes, Welden F. (See Johnson, D. L., and Barnes.)
- Barnes, William J., Jersey City, N. J. Golf tee. 1,715,026; May 28.
- Barnes, William J., Evansville, assignor of one-half to J. A. Parker, Vanderburg County, Ind. Detachable handle for agricultural implements. 1,728,195; Sept. 17.
- Barnes, Winford C. (See Province, F. W., and Barnes.)
- Barnett, Charles M. (See Lang, J. O., and Barnett.)
- Barnett, Edward A., Port Arthur, Tex. Spark plug. 1,727,532; Sept. 10.
- Barnett, H. D., Long Beach, Calif. Automobile license-plate attachment. 1,720,258; July 9.
- Barnett, Henry J., Green Ridge, Mo. Level. 1,700,278; Jan. 29.
- Barnett, John B., Holliday, Tex. Crane attachment for tractors. 1,739,938; Dec. 17.
- Barnett, Louis, Brooklyn, N. Y. Cap plug. 1,718,518; June 25.
- Barnett, Louis, Brooklyn, N. Y. Electric attachment fitting. 1,730,873; Oct. 8.
- Barnett, Sell W., Webster City, Iowa. Corn picking and husking machine. 1,720,713; July 16.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,698,119; Jan. 8.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,712,193; May 7.
- Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,730,445; Oct. 8.
- Barney, Ernest E. (See Gegenheimer, W., and Barney.)
- Barney, Eugene J. (See Keilholz, L. S., and Barney.)
- Barney, Freeman, assignor to The Challenge Machinery Company, Grand Haven, Mich. Standard. 1,738,276; Dec. 3.
- Barney, Mary G., Kansas City, Kans. Supplying thread for mending stockings. 1,739,346; Dec. 10.
- Barnfather, Edward, assignor to Correcta Light Limited, London, England. Dirigible headlight. 1,724,121; Aug. 13.
- Barnhart Brothers & Spindler. (See Dietz, August, assignor.)
- Barnhart, George E. (See Elton, M. S., and Barnhart.)
- Barnhart, George E., Pasadena, Calif. Golf-club-testing machine. 1,703,507; Feb. 26.
- Barnhart, George E., Pasadena, Calif. Cutting rotatable dies for drawing machines. 1,705,893; Mar. 19.
- Barnhart, George E., Pasadena, Calif. Tapered drawn structural element. 1,711,824; May 7.
- Barnhart, George E., Pasadena, Calif. Drawing and rolling machine. 1,711,825; May 7.
- Barnhart, George E., Pasadena, Calif. Merchandise carrier for aircraft. 1,713,069; May 14.
- Barnhart, George E., Pasadena, Calif. Making golf-club shafts. 1,713,812; May 21.
- Barnhart, George E., Pasadena, Calif. Heat-treating furnace organization for metallic units. 1,722,449; July 30.
- Barnhart, George E., Pasadena, Calif. Come-along for metal-drawing machines. 1,733,327; Oct. 29.
- Barnhart, John F., Akron, Ohio. Combination penholder and paper knife or similar article. Des. 79,010; July 23.
- Barnhart, John T., East Chicago, Ind. Vaporizing system for combustion engines. 1,730,990; Oct. 8.
- Barnville, John M. (See Ramsey, W. G., Eichenlaub, and Barnville.)
- Barnowitz, Harry, Brooklyn, N. Y. Combination toilet implement. 1,731,287; Oct. 15.
- Barnum, Harry B., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 77,726; Feb. 19.
- Barnum, Howard N., Cleveland, Ohio. Amusement device. 1,703,378; Feb. 26.
- Barody, Moses, Albany, assignor of one-half to C. H. Andros, Nassau, N. Y. Peeling peaches. 1,717,647; June 18.
- Barol, Hugo, Philadelphia, Pa. Lady's hand bag. 1,719,040; July 2.
- Baron, Charles S., Tiffin, Ohio. Vase holder. 1,712,066; May 7.
- Baron, Louis. (See Perla, H., and Baron.)
- Barone, Luis H., Buenos Aires, Argentina. Footwear. 1,734,846; Nov. 5.
- Baronis, Renato, Torino, assignor to S. Cristiani, Milan, Italy. Vehicle lock. 1,711,714; May 7.
- Barord, Paul J., Dormont Borough, Allegheny County, assignor to The Sterling Varnish Company, Pittsburgh, Pa. Apparatus for coating. 1,726,941; Sept. 3.
- Baroub, Isidore, Paris, France. Bottle. Des. 77,727; Feb. 19.
- Baroub, Isidore, Paris, France. Bottle holder. Des. 77,728; Feb. 19.
- Barousse, Ignacio Co., Elmhurst, Ill., assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 78,962; July 16.
- Barr, Archibald, W. Stroud, and C. D. Macgill, assignors to Barr and Stroud Limited, Glasgow, Scotland. Range finder, height finder, and the like. 1,710,641; Apr. 23.
- Barr, Charles H., assignor to The Bassick Company, Bridgeport, Conn. Drawer pull. 1,716,574; June 11.
- Barr, Clarence D. (See Moore, W. D., Barr, Moore, and Wilson.)
- Barr, Clarence D., assignor to American Cast Iron Pipe Co., Birmingham, Ala. Hot-blast cupola. 1,738,277; Dec. 3.
- Barr, Clarence D. and W. D. Moore, assignors to American Cast Iron Pipe Co., Birmingham, Ala. Hot-blast cupola. 1,740,886; Dec. 24.
- Barr, John H., Ithaca, N. Y., assignor to Barr-Morse Corporation. Typewriter. 1,697,899; Jan. 8.
- Barr, John H., Ithaca, N. Y. Ribbon-feed mechanism. 1,717,362; June 18.
- Barr, John U. (See Klipstein, L. F., and Barr.)
- Barr-Morse Corporation. (See Barr, John H., assignor.)
- Barr, Richard, Ravine, Pa. Furniture attachment. 1,704,782; Mar. 12.
- Barr, Sidney U., Montclair, N. J. Ventilator. 1,734,759; Nov. 5.
- Barr-Smith, Victor H., Neutral Bay, near Sydney, New South Wales, Australia. Combined collapsible coat hanger and trousers press. 1,701,437; Feb. 5.
- Barr and Stroud Limited. (See Barr, A., Stroud, and Macgill, assignors.)
- Barr and Stroud, Limited. (See French, James W., assignor.)
- Barr, Watler, assignor to The Western Gas Construction Company, Fort Wayne, Ind. Automatically-controlled water-gas set. 1,708,375; Apr. 9.
- Barra, John L. (See Shaw, G. A., and Barra.)
- Barra, John L., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Sectional drill steel. 1,733,392; Oct. 29.
- Barraket, Jacob A., Brooklyn, N. Y. Collapsible chair. 1,703,606; Feb. 26.
- Barraket, Jacob A., Brooklyn, N. Y. Hair waver. 1,735,989; Nov. 19.
- Barratt, Frederick R., Krugersdorp, Transvaal, South Africa. Tube-mill shell liner. 1,741,604; Dec. 31.
- Barratt, Sydney. (See Bonniksen, C. W., and Barratt.)
- Barratt, Whitford R. (See Rial, W. D., and Barratt.)
- Barratt, William T., assignor to Charles Cooper Company, Bennington, Vt. Tension device for knitting machines. 1,736,387; Nov. 19.



- Barratt, William T., assignor to Charles Cooper Company, Bennington, Vt. Adjustable bobbin support. 1,738,813; Dec. 10.
- Barre, Trent R., et al. (See Schem, Walter, assignor.)
- Barrell, Charles S., Boston, Mass. Internal-combustion engine. 1,710,083; Apr. 23.
- Barrell, Charles S., Boston, Mass. Chain. 1,727,924; Sept. 10.
- Barrett, Arthur M., Winnetka, Ill. Lifting truck. 1,707,971; Apr. 9.
- Barrett, C. E. & Co. (See Travor, Carl A., assignor.)
- Barrett, Charles G., Milwaukee, Wis., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,703,653; Feb. 26.
- Barrett, Charles G., Shorewood, Wis. Rotary engine, compressor, and exhauster. 1,728,029; Sept. 10.
- Barrett Company, The. (See Ames, C. F., jr., and Mortimer, assignors.)
- Barrett Company, The. (See Caton, Maurice L., assignor.)
- Barrett Company, The. (See Cushing, Daniel, assignor.)
- Barrett Company, The. (See Fenhagen, F. D., Rhodes, and Hesser, assignors.)
- Barrett Company, The. (See Hagens, J. F. C., Rosenstein, and Hirschkind, assignors.)
- Barrett Company, The. (See Hess, R. W., and Leaper, assignors.)
- Barrett Company, The. (See Holdsworth, Richard A., assignor.)
- Barrett Company, The. (See MacCubbin, Alexander A., assignor.)
- Barrett Company, The. (See Manker, Frank B., assignor.)
- Barrett Company, The. (See Miller, Stuart P., assignor.)
- Barrett Company, The. (See Miller, S. P., Hanser, and Cooley, assignors.)
- Barrett Company, The. (See Moses, F. G., Hess, and Perkins, assignors.)
- Barrett Company, The. (See Paffen, Paul J., assignor.)
- Barrett Company, The. (See Paffen, P. J., and Wittenberg, assignors.)
- Barrett Company, The. (See Perry, Ray P., assignor.)
- Barrett Company, The. (See Perry, R. P., and Howell, assignors.)
- Barrett Company, The. (See Ryan, Walter S., assignor.)
- Barrett Company, The. (See Swenson, George E., assignor.)
- Barrett Company, The. (See Wittenberg, Lester, assignor.)
- Barrett, Edward E., assignor to Roberts and Schaefer Company, Chicago, Ill. Material-handling station. 1,723,003; Aug. 6.
- Barrett, Edward R., assignor to Wood Hydraulic Hoist & Body Company, Detroit, Mich. Dumping-body hoist. 1,715,491; June 4.
- Barrett, Edward R., assignor to Wood Hydraulic Hoist & Body Company, Detroit, Mich. Hoisting mechanism. 1,726,797; Sept. 3.
- Barrett, Elmer L., assignor of one-half to L. B. Guild, Havlock, Nebr. Rail anchor. 1,722,885; July 30.
- Barrett, Gerald R., assignor to Merrimac Chemical Company, Woburn, Mass. Stabilized nitrocellulose composition. 1,720,992; July 16.
- Barrett, Glenn J., Evanston, assignor to Portable Adding Machine Company, Chicago, Ill. Listing mechanism for adding machines. 1,734,069; Nov. 5.
- Barrett, Harold G., Wilmette, assignor to Barbarite Corporation, Chicago, Ill. Billiard cue. 1,702,292; Feb. 19.
- Barrett, Harold G., Wilmette, assignor to Barbarite Corporation, Chicago, Ill. Billiard cue. 1,705,353; Mar. 12.
- Barrett, Harold G., Wilmette, assignor to Pyratone Products Corporation, Chicago, Ill. Apparatus for and method of making tubular shafts for golf clubs and the like. 1,740,144; Dec. 17.
- Barrett, Joseph M., Postoria, assignor to The Swartwout Company, Cleveland, Ohio. Feed-water-control system. 1,702,375; Feb. 19.
- Barrett, Lawrence A., and J. P. Ferris, assignors to The Oilgear Company, Milwaukee, Wis. Hydraulic press. 1,700,363; Jan. 29.
- Barrett, Leon J., Worcester, Mass. Centrifugal. 1,735,523; Nov. 12.
- Barrett, Lester E. (See Buck, Sterling P., assignor.)
- Barrett, Richard E., Boykins, Va. Mechanical train signal. 1,738,278; Dec. 3.
- Barrett, Thomas H., and D. A. Weems, Birmingham, Ala. Battery feed for automatic weft-replenishing looms. 1,710,527; Apr. 23.
- Barrett, Thomas J., Los Angeles, Calif. Apparatus for generating infra-red rays. 1,715,634; June 4.
- Barrett, Thomas J., Washington Crossing, Pa. Tread for surfaced roads and pavements. 1,720,461; July 9.
- Barrett, Thomas J., Washington Crossing, Pa. Pavement insert. 1,720,162; July 9.
- Barrett, Thomas J., and T. L. Croom; said Croom assignor to W. M. Barrett, Los Angeles, Calif. Razor. 1,718,188; June 18.
- Barrett, Wesley M. (See Barrett, T. J., and Croom, assignor.)
- Barrett, Wesley M. (See Croom, Thomas L., assignor.)
- Barrett, William R., New York, N. Y. Cutter mechanism. 1,732,148; Oct. 15.
- Barrett, William R., New York, N. Y. Fabric cutter. 1,732,149; Oct. 15.
- Barricklow, Paul W., Columbus, Ohio. Grease cup. 1,717,543; June 18.
- Barrie, William H., Walla Walla, Wash. Ironing table. 1,703,333; Feb. 26.
- Barrier, John H. (See Barrier, Joseph A. and J. H.)
- Barrier, Joseph A. and J. H., Oakland, Calif. Cane-cutting machine. 1,716,754; June 11.
- Barries, Ricardo, Susanville, Calif. Exhaust deflector for tractors. 1,738,279; Dec. 3.
- Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Tile, stoneware articles, and the like. 1,721,367; July 16.
- Barringer, Lon H., Charleston, W. Va. Light-ray projector and holder. 1,720,199; July 9.
- Barrington, Lillian E., Oakland, Calif. Ear guard. 1,697,102; Jan. 1.
- Barro, Antonio P., Habana, Cuba. Device for making receptacles. 1,735,721; Nov. 12.
- Barron, Albert M., Philadelphia, Pa. Starting block. 1,709,832; Apr. 23.
- Barron, Edward T., Minneapolis, Minn. Moisture trap for automobile crank cases. 1,729,978; Oct. 1.
- Barron, Jacob B., Calgary, Alberta, Canada. Slide-carrier attachment for stereopticons. 1,728,589; Sept. 17.
- Barrow, Adam G., Roundhay, assignor to Jackson Boilers Limited, Leeds, England. Electrically-heated machine for the brewing of tea, coffee, and like beverages. 1,716,203; June 4.
- Barrow, Hepburn & Gale, Limited. (See Waterer, John W., assignor.)
- Barrowman, Arthur H., assignor to J. M. Fisher Company, Attleboro, Mass. Chain. 1,741,271; Dec. 31.
- Barrows, Alford C. (See MacLear, J. H., Barrows, and Langford.)
- Barrows, Allan S., Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Door. 1,698,118; Jan. 8.
- Barrows, Donald S. (See Kadel, B. W., and Barrows.)
- Barrows, Donald S., Rochester, N. Y. Car truck. 1,717,648; June 18.
- Barrows, Donald S., Rochester, N. Y. Railway truck. 1,740,059; Dec. 17.
- Barrows, Donald S., Rochester, N. Y. Railway truck. 1,740,143; Dec. 17.
- Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Car underframe. 1,701,553; Feb. 12.
- Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Journal box. 1,706,098; Mar. 19.
- Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Journal box. 1,706,688; Mar. 26.
- Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Journal box. 1,710,139; Apr. 23.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Journal box. 1,712,018; May 7.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Journal box. 1,723,990; Aug. 13.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Draft rigging. 1,725,728; Aug. 20.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Side frame. 1,740,563; Dec. 24.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Side frame. 1,740,564; Dec. 24.
- Barrows, Donald S., Rochester, assignor to The Symington Company, New York, N. Y. Side frame. 1,740,565; Dec. 24.
- Barrows, Donald S., Rochester, N. Y., and B. W. Kadel, Baltimore, Md., assignors to The Symington Company, New York, N. Y. Side frame. 1,740,562; Dec. 24.
- Barrows, Frederic I., Indianapolis, Ind., assignor to R. H. Barrows. Sectional automobile body. 1,714,472; May 21.
- Barrows, Frederic I., assignor to R. H. Barrows, Indianapolis, Ind. Process and apparatus for drying and pulverizing coal. 1,734,992; Nov. 12.
- Barrows, George S., assignor to General Fire Extinguisher Company, Providence, R. I. Radiator. 1,726,285; Aug. 27.
- Barrows, Ruth H. (See Barrows, Frederic I., assignor.)
- Barrows, Walter B., Norwich, Conn., assignor, to M. Golden, New York, N. Y. Suspended stage chair. Des. 78,326; Apr. 23.
- Barry, James J., assignor to General Seafoods Corporation, Gloucester, Mass. Trimming tool. 1,722,450; July 30.
- Barry, James P., Piedmont, assignor to The Little River Redwood Co., San Francisco, Calif. Deck for cooling towers. 1,741,493; Dec. 31.
- Barry, John, Marcus, Iowa. Snowplow. 1,701,767; Feb. 12.
- Barry, John L., Hingham, assignor to Cynthia Mills, Boston, Mass. Yarn package and forming the same. 1,699,945; Jan. 22.
- Barry, John L., Hingham, assignor to Cynthia Mills, Boston, Mass. Device for forming yarn packages. 1,699,946; Jan. 22.
- Barry, Leo K. (See Ripley, Charles I., assignor.)
- Barry, Robert K., and L. Bowen, Muscatine, Iowa. Hardness-testing machine. 1,722,263; July 30.



- Barry, Walter F., Newark, N. J. Film mount. 1,733,215; Oct. 29.
- Barry, William A., Philadelphia, Pa. Walking figure wheeled toy. 1,724,170; Aug. 13.
- Barry, William M., et al. (See Wagener, Hans, assignor.)
- Barrymore Concrete Mixer Corporation. (See Bried, Julien A., assignor.)
- Barshell, David. (See Barshell, Frederick B., assignor.)
- Barshell, Frederick B., assignor of one-half to D. Barshell, New York, N. Y. Auxiliary traction and steering device for motor vehicles. 1,703,070; Feb. 19.
- Barsky, George. (See Buchanan, G. H., Barsky, and Ashley.)
- Barsky, George, assignor to American Cyanamid Company, New York, N. Y. Producing substituted guanidines. 1,727,093; Sept. 3.
- Barsky, George, New York, N. Y., and I. V. Giles, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y. Producing benzoic acid. 1,734,029; Nov. 5.
- Barsky, George, New York, N. Y., and P. W. Griffith, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y. Producing cyanamid. 1,741,674; Dec. 31.
- Barstow Stove Company. (See Starr, Clarence D., assignor.)
- Barstow, W. S., & Company. (See Gilbert, Ernest M., assignor.)
- Bart, Blasius, East Orange, assignor to Bart Reflector Co. Inc., Newark, N. J. Glass mold. 1,716,350; June 4.
- Bart, Blasius, East Orange, assignor to Bart Reflector Co. Inc., Newark, N. J. Apparatus for silvering glass molds. 1,726,974; Sept. 3.
- Bart Reflector Co. (See Bart, Blasius, assignor.)
- Bart Reflector Co. Inc. (See Bart, Blasius, assignor.)
- Barta-Griffin Company. (See Barta, William E., assignor.)
- Barta, William E., Roslindale, assignor to Barta-Griffin Company, Worcester, Mass. Printer's color-card system. 1,704,675; Mar. 5.
- Barteit, Ewald A., assignor to The Geometric Tool Co., New Haven, Conn. Die head. 1,713,319; May 14.
- Bartel, Englebert A., assignor to P-W Device Corporation, Brooklyn, N. Y. Plate and die holder for embossing machines. 1,708,687; Apr. 9.
- Bartel, William E., assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Twin-rivet-setting machine. 1,733,713; Oct. 29.
- Bartell, Harry R., St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Engine truck. 1,729,434; Sept. 24.
- Bartelme, Ferdinand M., Chicago, Ill. Mechanical gear-shifting device. 1,700,874; Feb. 5.
- Bartels, Carl P. (See Bates, C. J., jr., and Bartels.)
- Bartels, Edward E., assignor to Standard Oil Company, Whiting, Ind. Float. 1,701,967; Feb. 12.
- Bartels, Edward E., assignor to Standard Oil Company, Whiting, Ind. Conversion of hydrocarbon oils. 1,741,045; Dec. 24.
- Bartels, Erich, assignor to the firm of Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Primer lock. 1,734,152; Nov. 5.
- Bartels, Frank, Jersey City, N. J., assignor, by mesne assignments, to The Frink Corporation, New York, N. Y. Illuminating fixture. 1,722,966; July 30.
- Bartels, Ida M., et al., executors. (See Bartels, Reinhard E.)
- Bartels, R. Burleigh, et al., executors. (See Bartels, Reinhard E.)
- Bartels, Reinhard B., Melrose, Mass. Turn shoe and fixing shank stiffeners thereo. 1,739,279; Dec. 10.
- Bartels, Reinhard E., deceased, Lynn, Mass.; I. M. Bartels and R. B. Bartels, executors. Shoe-shank stiffener. 1,737,556; Dec. 3.
- Bartels, William, New York, N. Y. Tool. 1,700,213; Jan. 29.
- Bartelson, John L., Claremont, N. H., assignor to Sullivan Machinery Corporation. Fluid-pressure motor. 1,740,676; Dec. 24.
- Bartelstone, Louis, Brooklyn, assignor to Indestructo Glass Corporation, Farmingdale, N. Y. Weatherproof laminated glass. 1,705,631; Mar. 19.
- Bartgis Brothers Company, The. (See Lupton, Elmer H., assignor.)
- Barth, L., & Co. (See Mossi, C. B., and Chevola, assignors.)
- Barth, Paul, et al. (See Dopyera, John, assignor.)
- Barthel, Hermann, Schweinfurt, Germany. Production of metallic bodies by a combined casting and pressing process. 1,698,010; Jan. 8.
- Barthel, Oliver E., Detroit, Mich. Motor-vehicle chassis. 1,705,705; Mar. 19.
- Barthel, Oliver E., and J. S. Zucchet, Detroit, Mich. Clothes-drying machine. 1,720,537; July 9.
- Barthelme, Emil, Dusseldorf-Oberkassel, Germany. Simultaneous drying and grinding. 1,702,333; Feb. 19.
- Bartholic, Edward B., Phippsburg, Colo. Card holder. 1,732,629; Oct. 22.
- Bartholomae, Barth E., Pittsburgh, Pa. Shoe horn. 1,710,138; Apr. 23.
- Bartholomew, Bert E., et al. (See Bartholomew, Bert E., assignor.)
- Bartholomew, Bert E., Pasadena, Calif., assignor, by mesne assignments, to B. E. Bartholomew and H. Parker. Cup-board catch. 1,705,706; Mar. 19.
- Bartholomew, Bert E., assignor to Consolidated Hardware Manufacturers, Incorporated, Pasadena, Calif. Adjuster for swing casements and the like. 1,732,709; Oct. 22.
- Bartholomew, Bert E., assignor to Consolidated Hardware Manufacturers, Incorporated, Pasadena, Calif. Door latch and lock. 1,733,442; Oct. 29.
- Bartholomew, Fred R. (See Vierling, F. J., and Bartholomew.)
- Bartholomew, Gilbert A., Cleveland, Ohio. Humidifier for internal-combustion engines. 1,702,858; Feb. 19.
- Bartholomew, Harry G. (See McFarlane, M. D., and Bartholomew.)
- Bartholomew, Harry G., London, England, and M. L. D. McFarlane, New York, N. Y. Phototelegraphy. 1,731,518; Oct. 15.
- Bartholomew, John R., Montclair, N. J., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive clutch device. 1,707,246; Apr. 2.
- Bartholomew, John R., Montclair, N. J., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,739,496; Dec. 17.
- Bartholomew, Robert J., Lansdale, and R. Laufer, assignors to Fletcher Works, Incorporated, Philadelphia, Pa. Let-off for looms. 1,701,768; Feb. 12.
- Bartlett, C. O., & Snow Company, The. (See First, Mahlon E., assignor.)
- Bartlett, Charles H. (See Goodwin, W. N., jr., and Bartlett.)
- Bartlett-Collins Company. (See Evans, Charles, assignor.)
- Bartlett, Edwin B., Milwaukee, assignor to Milwaukee Stamping Company, West Allis, Wis. Trimmed lock side band. Des. 77,462; Jan. 15.
- Bartlett, Edwin S., Forest Park, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Sheep shear. 1,723,323; Aug. 6.
- Bartlett, Edwin S., Forest Park, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Sheep shear. 1,727,330; Sept. 10.
- Bartlett, Francis A. (See Rankin, William H., assignor.)
- Bartlett, George B., Jeffersonville, Ind. Crank awning adjuster. 1,701,221; Feb. 5.
- Bartlett, George M., Merchantville, N. J., assignor to Campbell Soup Company. Canning baked beans. 1,718,187; June 18.
- Bartlett, Harry D., Delavan, Wis. Radio receiving apparatus. 1,734,553; Nov. 5.
- Bartlett-Hayward Company, The. (See Kuehn, Paul M., assignor.)
- Bartlett Hayward Company, The. (See Meyer, Henry C. A., assignor.)
- Bartlett Hayward Company, The. (See Santos, John R. L., assignor.)
- Bartlett, John E., San Francisco, Calif. Door-lock attachment. 1,727,323; Sept. 10.
- Bartlett, Joseph R., deceased, Kansas City, Mo.; M. M. Bartlett, administratrix, assignor to M. M. Bartlett, Kansas City, Mo. Bag packing and sewing machine. 1,697,706; Jan. 1.
- Bartlett, Kent W., Hammond, Ind. Liquid-treating apparatus. 1,698,183; Jan. 8.
- Bartlett, Leon O., assignor to Brown Company, Berlin, N. H. Log feeder. 1,729,604; Oct. 1.
- Bartlett, Leon O., assignor to Brown Company, Berlin, N. H. Log pusher and the like. 1,729,605; Oct. 1.
- Bartlett, Margaret M. (See Bartlett, Joseph R., assignor.)
- Bartlett, Margaret M., administratrix. (See Bartlett, Joseph R.)
- Bartlett, Oscar L., Mound City, Ill. Hamper-forming device. 1,707,156; Mar. 26.
- Bartlett, Robert A., Warren, Ontario, Canada. Standard mounting socket and chain grip. 1,727,461; Sept. 10.
- Bartlett, Robert S., C. D. Harrison, and P. D. Lindsay, Hominy, Okla. Incubator heater. 1,719,527; July 2.
- Bartlett, William D., and S. Marquis, assignors to Thompson Products, Incorporated, Cleveland, Ohio. Press. 1,726,731; Sept. 3.
- Bartley, Charles B., and V. H. Dake, Pittsburgh, Pa. System of supervisory signaling and remote control. 1,739,055; Dec. 10.
- Bartley, Harold F., New York, N. Y. Hairpin. 1,725,125; Aug. 20.
- Bartley, Hiram J., St. Catharines, Ontario, Canada. Storage-battery construction. 1,741,046; Dec. 24.
- Bartley, John M., Long Beach, Calif., assignor to General Combustion Company. Spark intensifier. 1,699,829; Jan. 22.
- Bartley, John M., Long Beach, Calif., assignor to General Combustion Company. Fuel-supply apparatus for internal-combustion engines. 1,709,968; Apr. 23.
- Bartley, John M., assignor to General Combustion Company, Long Beach, Calif. Fuel-supply apparatus for internal-combustion engines. 1,728,323; Sept. 17.
- Bartley, William A., and E. O. Friedman, Oxford, N. J. Mold. 1,698,836; Jan. 15.
- Bartling, Friedrich. (See Honigmann, L., and Bartling.)
- Bartlow, Lowell W., Turbotville, Pa. Attachment for plows. 1,733,046; Oct. 22.
- Bartoletti, Umberto, New York, N. Y. Advertising device. 1,700,622; Jan. 29.
- Bartoletti, Umberto, New York, N. Y. Advertising cabinet. 1,718,625; June 25.



- Barton, Albert W., E. Du Lac, and E. M. Ferguson, Minneapolis, Minn.; said Barton assignor of one-sixth to said Du Lac and one-sixth to said Ferguson. Rock crusher. 1,708,562; Apr. 9.
- Barton, Archie, South Shaftsbury, assignor to H. T. Cushman Mfg. Co., North Bennington, Vt. Furniture construction. 1,717,137; June 11.
- Barton, Ben D., assignor to American Steam Pump Company, Battle Creek, Mich. Power attachment for motor vehicles. Re17,537; Dec. 24.
- Barton, Ben D., assignor to American Steam Pump Company, Battle Creek, Mich. Power attachment for motor vehicles. Re17,538; Dec. 24.
- Barton, Francis M., assignor to Barton Spider-Web System, Chicago, Ill. Concrete-steel construction. 1,708,352; Apr. 9.
- Barton, Francis M., assignor to Barton Spider Web System, Chicago, Ill. Metallic lathing. 1,736,873; Nov. 26.
- Barton, Frederick C., Schenectady, N. Y., assignor to General Electric Company. Cone-type loud-speaker. 1,713,210; May 14.
- Barton, John H., Shenandoah, Iowa. Hand churn. 1,719,317; July 2.
- Barton, Joseph M., Athol, Mass. Kettle. 1,741,675; Dec. 31.
- Barton, Kirtland C. (See Bothwell, C. L. and Barton.)
- Barton, James S., Hollywood, Calif. Wind cone. 1,736,109; Nov. 19.
- Barton, Loy E., Schenectady, N. Y., assignor to General Electric Company. Oscillation generator. 1,738,346; Dec. 3.
- Barton, Ralph F., New Haven, Conn., assignor to Photomaton, Inc., New York, N. Y. Photographic-portrait enlargement visualizer. 1,739,816; Dec. 17.
- Barton, Raymond L., Los Angeles, Calif. Combination sink and laundry tray. Des. 78,499; May 14.
- Barton, Raymond L., Los Angeles, Calif. Combined washboard and laundry tray. Des. 78,500; May 14.
- Barton, Roscoe C. (See Bothwell, C. L. and Barton.)
- Barton Spider Web System. (See Barton, Francis M., assignor.)
- Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. Control for dynamo-electric machines. 1,698,293; Jan. 8.
- Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. Regulating system for dynamo-electric machines. 1,713,161; May 14.
- Barton, Theophilus F., Upper Montclair, N. J., assignor to General Electric Company. System of electrical distribution. 1,713,162; May 14.
- Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. 1,713,211; May 14.
- Barton, Theophilus F., Upper Montclair, N. J., assignor to General Electric Company. System of electrical distribution. 1,723,911; Aug. 6.
- Barton, Theophilus F., Upper Montclair, N. J., assignor to General Electric Company. Regulating system. 1,731,883; Oct. 15.
- Barton, Theophilus F., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,734,890; Nov. 5.
- Barton, William H., assignor to Blue Diamond Company, Los Angeles, Calif. Slaking lime and producing hydrate of lime. 1,720,026; July 9.
- Bartow, Harry E., assignor to F. Exner, Brooklyn, N. Y. Chair and other article. 1,722,264; July 30.
- Bartram, Thomas W. (See Hand, C. N., Bartram, and Maude.)
- Bartram, Thomas W., and H. P. Roberts, Nitro, W. Va., assignors to The Rubber Service Laboratories Company, Akron, Ohio. Manufacture of alkali-metal xanthates. 1,718,937; July 2.
- Bartram, Thomas W., and W. C. Weltman, Nitro, W. Va., assignors to The Rubber Service Laboratories Co., Akron, Ohio. Manufacture of xanthates. 1,724,549; Aug. 13.
- Bartsch, Alfred H., Springfield, Mass., and M. C. Hopkins, Washington, D. C.; said Bartsch assignor to American Bosch Magneto Corporation, New York, N. Y., and said Hopkins assignor to Hopkins Corporation, Jersey City, N. J. Loud speaker. 1,702,926; Feb. 19.
- Bartschat, August K. (See Bartschat, William A., assignor.)
- Bartschat, William A., assignor of one-half to A. K. Bartschat, Tomahawk, Wis. Automobile headlight control. 1,703,256; Feb. 26.
- Bartucci, Louis D., Chicago, Ill. Waterproof cigarette and match case. 1,714,840; May 28.
- Barwick, Harry A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe soles. 1,712,482; May 14.
- Barwick, John, New York, N. Y. Rat trap. 1,723,121; Aug. 6.
- Barwick, John, New York, N. Y. Safety parachute. 1,723,122; Aug. 6.
- Barwood, Leon J., Allston, Mass. Handle. 1,739,706; Dec. 17.
- Bar-Zim Toy Manufacturing Co. (See Craig, Gilbert T., assignor.)
- Bar-Zim Toy Manufacturing Co. Inc. (See Rosenfield, Jacob, assignor.)
- Basar, Michael M., jr., Omaha, Nebr. Stocking protector. 1,736,245; Nov. 19.
- Baschon, Felix A. (See Hendricks, William F., assignor.)
- Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone desk stand. Des. 78,605; May 28.
- Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone-exchange system. 1,722,262; July 30.
- Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. 1,723,123; Aug. 6.
- Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. 1,741,272; Dec. 31.
- Bascom, Henry M., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Protective device for electric circuits. 1,741,356; Dec. 31.
- Bäsel, Wolfgang, Munich, assignor to Lorenz-Zeiss-Zugsicherungs G. m. b. H., Berlin-Tempelhof, Germany. Train-controlling means by light rays. 1,717,752; June 18.
- Basham, Harm L., Woodbury, Tenn. Automatic spark control. 1,711,078; Apr. 30.
- Bashara, Samuel F., and J. W. Cain, Houston, Tex. Anti-theft electric-light bulb. 1,738,683; Dec. 10.
- Bashor, Emery E., assignor of one-half to M. Wray, administratrix of E. N. Wray, Berthoud, Colo. Tractor hitch. 1,727,533; Sept. 10.
- Basinger, John H., Oklahoma City, Okla. Door buffer and holder. 1,739,940; Dec. 17.
- Baskerville, Charles, Jr., New York, N. Y. Mat. Des. 79,321; Sept. 3.
- Baskerville, Charles, Jr., New York, N. Y. Mat. Des. 79,322; Sept. 3.
- Baskerville, Edward A., Omaha, Nebr. Bookkeeping device. 1,713,163; May 14.
- Baskerville, John B., assignor to Impactograph Corporation, Roanoke, Va. Recording mechanism. 1,698,576; Jan. 8.
- Basquin, Morris H. (See Avery, S. L., jr., and Basquin.)
- Bass, E. & J., Inc. (See Bass, William L., assignor.)
- Bass, Rubin, Brooklyn, N. Y. Vacuum cleaner. 1,711,132; Apr. 30.
- Bass, Rubin, Brooklyn, N. Y. Garment holder. 1,740,643; Dec. 24.
- Bass, W. H. (See Hearn, James W., assignor.)
- Bass, William L., New York, N. Y., assignor to E. & J. Bass, Inc. Vanity case. 1,703,091; Feb. 26.
- Bass, William L., New York, N. Y., assignor to E. & J. Bass, Inc. Convertible liquid container. 1,721,506; July 23.
- Basseches, Jacob T., New York, N. Y. Disk-wheel valve-stem construction and lock nut therefor. 1,722,783; July 30.
- Bassett, Alvin J., Milwaukee, Wis., assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio. Oil-gas apparatus. 1,698,525; Jan. 8.
- Bassett, Alvin J., Milwaukee, Wis., assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio. Manufacturing oil gas. 1,698,526; Jan. 8.
- Bassett, Charles K. (See Ryder, Earl R., assignor.)
- Bassett, Charles W. and E. M. Alameda, Calif. Can punch and vent. 1,709,514; Apr. 16.
- Bassett, Cyrus W. (See Crowell, W. B., and Bassett.)
- Bassett, Cyrus W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator-control apparatus. 1,709,301; Apr. 16.
- Bassett, Edna M. (See Bassett, Charles W., and E. M.)
- Bassett, Harry P., Cynthia, Ky. Production of hydrogen sodium sulphide. 1,722,170; July 23.
- Bassett, Harry P., Cynthia, Ky. Testing cellulose and cellulose-ester filaments and the product thereof. 1,722,171; July 23.
- Bassett, Harry P., Cynthia, Ky. Removal of caustic soda soluble substances from cellulose-containing materials. 1,733,393; Oct. 29.
- Bassett, Harry P., Cynthia, Ky., and T. F. Banigan, Philadelphia, assignors to Meigs, Bassett & Slaughter, Inc., Philadelphia, Pa. Forming cellulose products. 1,709,513; Apr. 16.
- Bassett, Harry P., Cynthia, Ky., and T. F. Banigan, Clifton Heights, Pa., assignors, by mesne assignments, to said Bassett. Manufacturing artificial silk and the like. 1,736,280; Nov. 19.
- Bassett Metal Goods Company, The. (See Gallagher, David M., assignor.)
- Bassett Metal Goods Company, The. (See Russ, John B., assignor.)
- Bassett Metal Goods Company, The. (See Russ, J. B., and Smith, assignors.)
- Bassett, Millson M., assignor of one-half to L. I. Weil, Buffalo, N. Y. Oil filter. 1,702,489; Feb. 19.
- Bassett, Preston R., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Control of arc lights. 1,699,509; Jan. 15.
- Bassett, Preston R., assignor, by mesne assignments, to The Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High-intensity flaming-arc lamp. 1,711,983; May 7.
- Bassett, Preston R., Brooklyn, N. Y., assignor by mesne assignments, to Sperry Gyroscope Company, Inc. Radio direction and position finder. 1,715,270; May 28.
- Bassett, Preston R., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Drumless searchlight. 1,735,667; Nov. 12.
- Bassett, Preston R., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. High and medium intensity searchlight. 1,735,947; Nov. 19.



- Bassett, William H., Cheshire, assignor to The American Brass Company, Waterbury, Conn. Hollow conductor. Re17,296; May 21.
- Bassick Company, The. (See Barr, Charles H., assignor.)
- Bassick Company, The. (See Herold, Walter F., assignor.)
- Bassick Company, The. (See Johnson, John A., assignor.)
- Bassick Company, The. (See Moore, Raymond G., assignor.)
- Bassion, Morris, et al. (See Bassion, Morris, assignor.)
- Bassion, Morris, Philadelphia, Pa. Filter. 1,715,492; June 4.
- Bassion, Morris, Philadelphia, Pa., assignor to J. Rendelman and M. Bassion, copartners trading as Acme Auto Top and Painting Company, Philadelphia, Pa. Umbrella and hat rack. 1,700,579; Jan. 29.
- Bassisty, Michael S., New York, N. Y. Embroidering device. 1,726,332; Aug. 27.
- Bassler, Carlos J., assignor to American Liquid Meter Company, Portland, Oreg. Variable-speed compensating device for fluid meters. 1,726,975; Sept. 3.
- Bassler, Edwin M., Wausau, Wis. Rotary snowplow. 1,724,692; Aug. 13.
- Bast, Emil, Berlin, Germany. Sanitary closet. 1,736,478; Nov. 19.
- Bast, Frank J., assignor to Charles J. Tagliabue Mfg. Co., Brooklyn, N. Y. Electric switch. 1,719,959; July 9.
- Basta, Nikola, Vancouver, British Columbia, Canada. Saw-setting tool. 1,727,226; Sept. 3.
- Basterreix, Pierre P., Butte, Mont. Flash-light attachment for firearms. 1,702,101; Feb. 12.
- Basterreix, Pierre P., Butte, Mont. Signal lamp. 1,733,047; Oct. 22.
- Bastian, Arthur J., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gear-winding machine. 1,697,153; Jan. 1.
- Bastian, Arthur J., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded gear. 1,700,605; Jan. 29.
- Bastian-Blessing Company, The. (See Bastian, Charles L., assignor.)
- Bastian-Blessing Company, The. (See Bastian, C. L., and Farnham, assignors.)
- Bastian-Blessing Company, The. (See Buttner, William C., assignor.)
- Bastian-Blessing Company. (See Eldred, George S., assignor.)
- Bastian, Charles L., assignor to The Bastian-Blessing Company, Chicago, Ill. Two-stage fluid-pressure regulator. 1,731,519; Oct. 15.
- Bastian, Charles L., Chicago, Ill., and R. L. Farnham, Grand Haven, Mich., assignors to The Bastian-Blessing Company, Chicago, Ill. Temperature control. 1,705,106; Mar. 12.
- Bastian, Georg, Berlin-Lichtenberg, assignor to G. Goliasch & Co., Berlin-Neukolln, Germany. Dice-playing apparatus. 1,713,401; June 25.
- Bastian, Glenn G., Topeka, Kans. Fluid-mixing chamber. 1,716,755; June 11.
- Bastian-Morley Co. (See Eaton, Harold D., assignor.)
- Bastian-Morley Co. (See Lonergan, Simon J., assignor.)
- Bastian-Morley Company. (See Morley, James F., assignor.)
- Bastian, William B., trustee. (See Ivanhoff, Peter S., assignor.)
- Bastien, Paul, Indianapolis, Ind. Multiplying segmental brake. 1,697,838; Jan. 1.
- Batchelder, Harrison E., Marion, Iowa. Pipe. 1,736,819; Nov. 26.
- Batchelder, James, Muskegon Heights, Mich. Electric load-limiting device. 1,701,715; Feb. 12.
- Batchelder, James W., Brookline, Mass. Apparatus for the reduction of speeds. 1,731,233; Oct. 15.
- Batcheller, Clements, Brooklyn, N. Y., assignor to Bemis Industries, Incorporated, Boston, Mass. Shingle. 1,740,217; Dec. 17.
- Batcheller, Hiland G., Albany, and J. D. Kelley, Menands, assignors to Ludlum Steel Company, Watervliet, N. Y. Making materials containing tungsten. 1,709,817; Apr. 16.
- Batcheller, Hugh W., assignor to Bojac Manufacturing Co., Inc., Winooski, Vt. Traffic signal for motor vehicles. 1,697,586; Jan. 1.
- Batchelor, Joseph W., Glen Olden, Pa. Ethyl-chloride tube. 1,698,528; Jan. 8.
- Batdorf, Charles S., Brooklyn, N. Y. Water cooler. 1,698,356; Jan. 8.
- Batdorf, Charles S., Brooklyn, assignor to Purity Cup Corporation, New York, N. Y. Paper cup. 1,714,293; May 21.
- Bate, John W., Racine, Wis. Combination chain and lock. 1,734,153; Nov. 5.
- Batebolts, Clinton, assignor to Specialty Insulation Manufacturing Company, Inc., Hoosick Falls, N. Y. Push button. 1,705,801; Mar. 19.
- Bateman, Arthur R., assignor of one-half to F. F. Kabler, Lynchburg, Va. Liquid-measuring dispensing tank. 1,719,748; July 2.
- Bateman, Charles W., Concord, N. H. Hanger. 1,730,911; Oct. 8.
- Bateman, John A., et al. (See Bateman, William W., assignor.)
- Bateman, Rupert E., Downers Grove, Ill. Filling valve for gasoline and like containers. 1,719,960; July 9.
- Bateman, William W., Sunbury, assignor of twenty-five and one-half per cent to J. A. Bateman, and twenty-five per cent to H. C. Curry, Danville, Pa. Rail chair and splice plate. 1,701,554; Feb. 12.
- Bater, Frank R. (See Stewart, C. W., and Bater.)
- Bates, Adelmer M., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Pivot-point assembly. 1,699,578; Jan. 22.
- Bates, Albert J., Jr., Chicago, assignor to Bates Expanded Steel Truss Company, East Chicago, Ind. Manufacture of expanded-metal structures. 1,741,273; Dec. 31.
- Bates, Arthur, and A. H. Dodd, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for channeling the soles of boots or shoes. 1,733,178; Oct. 29.
- Bates, Carl S., assignor to International Stamping Co., Chicago, Ill. High-speed reciprocating saw. 1,729,324; Sept. 24.
- Bates, Charles H., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Machine and assembling screw parts or the like. 1,742,173; Dec. 31.
- Bates, Charles I., Chicago, Ill., assignor to Bates Expanded Steel Truss Company, East Chicago, Ind. Metal joist and the manufacture thereof. 1,718,938; July 2.
- Bates, Charles J., Jr., Englewood, N. J., and C. P. Bartels, assignors to The Mosler Safe Company, Hamilton, Ohio. Safe filling. 1,715,977; June 4.
- Bates Expanded Steel Truss Company. (See Bates, Albert J., Jr., assignor.)
- Bates Expanded Steel Truss Company. (See Bates, Charles I., assignor.)
- Bates, Harry H., Ridley Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Air pre-heater. 1,740,145; Dec. 17.
- Bates, J. H. (See Goodykointz, Frank A., assignor.)
- Bates, Jesse G., Chicago, Ill. Stapling device. 1,735,195; Nov. 12.
- Bates Manufacturing Company, The. (See Haupt, William F., assignor.)
- Bates, Mortimer F., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Method and apparatus for controlling pendulously-supported bodies. 1,713,942; May 21.
- Bates, Ralph L., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition coil. 1,708,211; Apr. 9.
- Bates, Robert, Athens, Tenn. Cleaner and polish. 1,725,245; Aug. 20.
- Bates Valve Bag Corporation (See Bates, Adelmer M., assignor.)
- Bates Valve Bag Corporation. (See Bushman, Robert P., assignor.)
- Bates Valve Bag Corporation. (See Bushman, Robert P. and E. L., and Fegeley, assignors.)
- Bates Valve Bag Corporation. (See Nelson, Lewis D., assignor.)
- Bates Valve Bag Corporation. (See Ward, Joshua, assignor.)
- Bates, Walter, Steel Corporation. (See Bates, Walter A., assignor.)
- Bates, Walter A., assignor to Walter Bates Steel Corporation, Gary, Ind. Machine for making expanded-metal structures. 1,714,292; May 21.
- Bates, Walter A., assignor to Walter Bates Steel Corporation, Gary, Ind. Steel frame for buildings. 1,735,627; Nov. 12.
- Bateson, Charles C. (See Wickstrom, Paul E., assignor.)
- Bath, Christian F., Abilene, Kans. Lifting jack. 1,728,387; Sept. 17.
- Bath, John. (See Bath, Stanley W., assignor.)
- Bath, John. (See Walker, E. A., and Allison, assignors.)
- Bath, John, Worcester, Mass. Grinding threads. 1,700,663; Jan. 29.
- Bath, John, Worcester, Mass. Internal micrometer gauge. 1,722,834; July 30.
- Bath, John, Worcester, Mass. Shaft bearing. 1,724,634; Aug. 13.
- Bath, John, Worcester, Mass. Making thread dies. 1,725,246; Aug. 20.
- Bath, John, & Company. (See Bath, Stanley W., assignor.)
- Bath, John, and E. A. Walker, Worcester, Mass., assignors by mesne assignments, to said Bath. Relieving mechanism for grinding machines. 1,715,054; May 23.
- Bath, Stanley W., assignor, by mesne assignments, to J. Bath, Worcester, Mass. Hydraulic tailstock. 1,704,852; Mar. 12.
- Bath, Stanley W., assignor to John Bath & Company, Inc., Worcester, Mass. Table-driving mechanism. 1,711,079; Apr. 30.
- Bath, Stanley W., Worcester, Mass., assignor, by mesne assignments, to J. Bath. Table driving mechanism. 1,724,635; Aug. 13.
- Bath, Wilmer H., West Conshohocken, assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,741,395; Dec. 31.
- Bath, Wilmer H., West Conshohocken, assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,741,396; Dec. 31.
- Bath, Wilmer H., West Conshohocken, assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,741,397; Dec. 31.
- Bath, Wilmer H., West Conshohocken, assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,741,398; Dec. 31.



- Bathurst, Edward P., Represa, Calif. Derrick cap. 1,731,121; Oct. 8.
- Batie, Joseph E., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Apparatus for assembling vehicle spoked wheels. 1,721,895; July 23.
- Batie, Joseph E., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Heating apparatus. 1,723,538; Aug. 6.
- Batie, Joseph E., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Forming brake drums and the like. 1,724,894; Aug. 20.
- Batie, Joseph E., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Forming brake drums. 1,738,224; Dec. 3.
- Batsel, Max C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio signaling system. 1,699,733; Jan. 22.
- Batsel, Max C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio receiving system. 1,709,651; Apr. 16.
- Batsel, Max C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wireless receiving system. 1,732,710; Oct. 22.
- Batteiger, Frederick. (See Mains, C., and Batteiger.)
- Battenfeld, Jay L., assignor to The Johnston & Jennings Company, Cleveland, Ohio. Swivel coupling. 1,712,130; May 7.
- Battenfeld, Victor P., Richmond Hill, N. Y. Appliance for head therapeutics. 1,705,467; Mar. 19.
- Battenfeld, Victor P., Richmond Hill, N. Y. Appliance for head therapeutics. 1,731,700; Oct. 15.
- Battershell, Corydon F., Wickliffe, Ohio. Gravity-control lock. 1,733,772; Oct. 29.
- Battery Equipment and Supply Company, The. (See Taylor, John, assignor.)
- Battery Service Stations, Inc. (See Davis, Jasper N., assignor.)
- Batley, Sumter B., New York, N. Y. Repeating mechanism for talking machines. 1,735,311; Nov. 12.
- Batley, William A., Haverford, and J. E. Stine and G. W. Borton, Philadelphia, Pa., assignors to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. 1,727,156; Sept. 3.
- Battig, Rudolf E., Sodingen, Germany. Generating hydrogen. 1,726,877; Sept. 3.
- Battin, Robert G. (See Jones, L. B., and Battin.)
- Battin, Robert G. (See Jones, Lee E., Jones, and Battin.)
- Battista, Joseph, Indianapolis, Ind. Smoker's kit. 1,704,549; Mar. 5.
- Battistella, Francis C., New York, N. Y., assignor of one-half to C. B. Orcutt, New York, N. Y. Manicure packet. 1,716,336; June 4.
- Battle Creek Bread Wrapping Machine Company. (See Littlefield, Carl, assignor.)
- Battle Creek Bread Wrapping Machine Company. (See Metcalf, Howard H., assignor.)
- Battle Creek Surgical Supply & Supporter Corporation. (See Mitchell, William L., assignor.)
- Batts, John T., Pasadena, Calif. Extension garment hanger. 1,728,919; Sept. 24.
- Batts, Walter H., Grand Rapids, Mich. Garment hanger. 1,740,566; Dec. 24.
- Bauch, Fredrick. (See Brump, H. L., and Bauch.)
- Bauch, Richard, Berlin-Charlottenburg, W. Koch, Berlin, and R. Völzing, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric and Manufacturing Company. Device for the selective isolation of faulty electric line sections. 1,724,390; Aug. 13.
- Bauch, Richard, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Electrical distribution system. 1,740,447; Dec. 24.
- Bauchère, Antoine, and G. Arnou, Paris, France. Manufacture of cement. 1,739,383; Dec. 10.
- Bauk, Theodore H., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Bolt-trimming machine. 1,711,630; May 7.
- Bauk, Theodore H., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Die-holding means for metal heading and trimming machines. 1,742,022; Dec. 31.
- Bauer, A. G. (See Schori, Fritz, assignor.)
- Bauer, Bartel, Pasing-Munich, Germany. Society game with rotatable disk with groove and ball notches mounted above the field and covered with a transparent cover. 1,707,184; Mar. 26.
- Bauer Brothers Company, The. (See Brennan, E. M., and Daniel, assignors.)
- Bauer Brothers Company, The. (See Brennan, E. M., and Hussey, assignors.)
- Bauer Brothers Company, The. (See Mechlin, Robert S., assignor.)
- Bauer Brothers Company, The. (See Mechlin, William H., assignor.)
- Bauer Brothers Company, The. (See Weiss, Howard F., assignor.)
- Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 78,078; Mar. 26.
- Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 78,917; July 9.
- Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 78,918; July 9.
- Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 79,693; Oct. 29.
- Bauer, Carl F. (See Beller, M., and Bauer.)
- Bauer, Charles G., et al. (See Bauer, Charles G., assignor.)
- Bauer, Charles G., Brooklyn, N. Y., assignor, by mesne assignments, to C. G. Bauer and E. L. Garvin. Machine for use in the manufacture of textile fabrics. 1,697,410; Jan. 1.
- Bauer, Fred A., Louisville, Ky. Cooling and dispensing machine. 1,718,102; June 18.
- Bauer, Frederick, Wausau, Wis. Hair clipper. 1,705,552; Mar. 19.
- Bauer, Friedrich, Pforzheim, Germany. Method and apparatus for manufacturing tin openers. 1,715,812; June 4.
- Bauer, Harry E. (See Fausel, C. A., and Bauer.)
- Bauer, Harry A., Newark, N. J., and G. W. Cassidy, New York, assignors to Cassidy Company, Inc., Long Island City, N. Y. Desk lamp. Des. 78,724; June 18.
- Bauer, Henry, Ritzville, Wash. Pick-up reel. 1,725,745; Aug. 27.
- Bauer, Herman, Stuttgart, Germany. Machine for treating feathers for use in beds and the like. 1,699,041; Jan. 15.
- Bauer, John W., Naperville, Ill. Plant-supporting clip. 1,737,873; Dec. 3.
- Bauer, Karl, Bronx, N. Y. Door peep. 1,737,291; Nov. 26.
- Bauer, Karl, Bronx, N. Y. Observation device. 1,737,292; Nov. 26.
- Bauer, Leo, Halle-on-the-Saale, Germany. Separable fastener. 1,709,827; Apr. 23.
- Bauer, Louis A., Washington, D. C., W. J. Peters, and J. A. Fleming, Chevy Chase, Md., assignors to Carnegie Institution of Washington, Washington, D. C. Compass variometer. 1,701,603; Feb. 12.
- Bauer, Marius A., Worcester, Mass., assignor to M. J. Whittall Associates. Filling fork and stop motion for oriental-rug looms. 1,700,664; Jan. 29.
- Bauer, Theodore H., Warren Township, St. Joseph County, Ind. Welding tool. 1,710,039; Apr. 23.
- Bauer, Wilhelm, A. Herre, Opladen, near Cologne, and A. Funke, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Readily-soluble vat color preparations. 1,711,008; Apr. 30.
- Bauer, Wilhelm, A. Herre, Opladen, near Cologne, and A. Funke, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Readily-soluble vat color preparations. 1,711,009; Apr. 30.
- Bauer, Martha V., Washington, D. C. Stretcher. 1,723,673; Aug. 6.
- Bauer, Martin, Cleveland, Ohio. Ladder. 1,731,234; Oct. 15.
- Bauer, Moritz, Stuttgart, Germany. Working for the cleaning of boiler-feeding water. 1,737,448; Nov. 26.
- Bauer, Paul S., Cambridge, Mass. Electrical method. 1,740,140; Dec. 17.
- Bauer, Theodore, assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Forming gun. 1,700,303; Jan. 29.
- Bauer, William J., New York, F. O. Wierth, and A. S. Meadoff, Brooklyn, assignors to Queen Automatic Phonograph Co., Inc., New York, N. Y. Phonograph. 1,700,969; Feb. 5.
- Bauerschmidt, Kuno, Karlshorst, Germany, assignor to General Electric Company. Electric switch. 1,706,133; Mar. 19.
- Bauersfeld, Walther, assignor to the firm of Carl Zeiss, Jena, Germany. Street-illuminating apparatus. 1,707,038; Mar. 26.
- Bauersfeld, Walther, and F. Pfeiffer, assignors to the firm Carl Zeiss, Jena, Germany. Photographic shutter. 1,716,512; June 11.
- Baughen, Harle T., Trenton, Mo. Safety lock for switch points. 1,723,398; Aug. 6.
- Baughin, Samuel C., assignor of one-half to A. E. Brixey, Springfield, Mo. Safety appliance. 1,703,379; Feb. 26.
- Baule, Marie E. A., Sceaux, France. Log constituted by a vane wheel. 1,714,205; May 21.
- Baum, August, Chicago, Ill. Pocket. 1,698,425; Jan. 8.
- Baum, Clifford E., Sycamore, Ohio. Guard and brace for fences. 1,698,577; Jan. 8.
- Baum, Clifford E., Sycamore, Ohio. Guard for wire fences. 1,725,951; Aug. 27.
- Baum, Clifford E., Sycamore, Ohio. Fence guard. 1,726,878; Sept. 3.
- Baum, Frank G., San Francisco, Calif., assignor to Westinghouse Electric and Manufacturing Company. Insulator for high-voltage systems. 1,728,522; Sept. 17.
- Baum, Fred T., and C. G. Norris, Marion, Ind. Brickmaking machine. 1,701,438; Feb. 5.
- Baum, Fred W., Newark, N. J., assignor, by mesne assignments, to Metropolitan Device Corporation, Brooklyn, N. Y. Multiple-fuse device. 1,708,963; Apr. 16.
- Baum, Isaac A., Chicago, Ill. Metal frame for openings. 1,697,300; Jan. 1.
- Baum, Isaac A., Chicago, Ill. Metal framing. 1,698,983; Jan. 15.
- Baum, Isaac A., Chicago, Ill. Metal frame and support thereof. 1,698,984; Jan. 15.
- Baum, Isaac A., Chicago, Ill. Metal and wood frame. 1,703,566; Feb. 26.
- Baum, Isaac A., Chicago, Ill. Metal frame and anchor construction. 1,704,717; Mar. 12.
- Baum, Isaac A., Chicago, Ill. Plaster terminal. 1,708,688; Apr. 9.

- Baum, Isaac A., Chicago, Ill. Frame anchor. 1,712,019; May 7.
- Baum, Isaac A., Chicago, Ill. Metal buck for thick walls. 1,712,020; May 7.
- Baum, Isaac A., Chicago, Ill. Window stool. 1,712,807; May 14.
- Baum, Isaac A., Chicago, Ill. Metal buck and trim. 1,716,023; June 4.
- Baum, Isaac A., Chicago, Ill. Metal frame for doors. 1,717,084; June 11.
- Baum, Isaac A., Chicago, Ill. Metal frame for doors. 1,720,200; July 9.
- Baum, Isaac A., Chicago, Ill. Doorframe. 1,720,201; July 9.
- Baum, Isaac A., Chicago, Ill. Composite door frame. 1,723,991; Aug. 13.
- Baum, Isaac A., Chicago, Ill. Nailing block. 1,727,024; Sept. 3.
- Baum, Isaac A., Chicago, Ill. Plaster terminal. 1,727,953; Sept. 10.
- Baum, Isaac A., Chicago, Ill. Frame for wall openings. 1,731,037; Oct. 8.
- Baum, Isaac A., Chicago, Ill. Door frame for all-plaster walls. 1,731,038; Oct. 8.
- Baum, Isaac A., Chicago, Ill. Door framing. 1,737,403; Nov. 26.
- Baum, James E., Lisco, Nebr. Animal trap. 1,715,445; June 4.
- Baum, Jerome E., New York, N. Y. Toilet accessory container. Des. 78,433; May 7.
- Baum, Jerome E., New York, N. Y. Toilet-accessory container. Des. 78,725; June 18.
- Baum, Jerome E., New York, N. Y. Toilet-accessory container. Des. 78,919; July 9.
- Baum, Jerome E., New York, N. Y. Toilet accessory container. Des. 79,009; July 23.
- Baum, Leo, deceased, Los Angeles, Calif.; A. R. Bond, executor. Interchangeable jewel mounting. 1,707,211; Mar. 26.
- Baum, Leo, deceased, Brooklyn, N. Y.; A. R. Bond, executor. Interchangeable jewel mounting. 1,707,780; Apr. 2.
- Baum, Leo, deceased, Brooklyn, N. Y.; A. R. Bond, executor. Picture mounting for jewelry. 1,726,333; Aug. 27.
- Baum, Leo, deceased, Williamsburg, Brooklyn, N. Y.; A. R. Bond, executor. Interchangeable-jewel mounting. 1,740,060; Dec. 17.
- Baum, Thomas A. P., Boonville, Ind. Seat. 1,727,691; Sept. 10.
- Bauman, Alfred M., Somerset, Pa. Coupler gauge. 1,731,968; Oct. 15.
- Bauman, Harry A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hot-water bottle. Des. 77,665; Feb. 12.
- Bauman, Harry A., and J. W. Higgins, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Tube supporter for fountain syringes. 1,703,859; Mar. 5.
- Bauman, Leo S., assignor to Bauman-Massa Jewelry Company, St. Louis, Mo. Filling tank for cigar lighters. Des. 78,606; May 28.
- Bauman-Massa Jewelry Company. (See Bauman, Leo S., assignor.)
- Bauman-Massa Jewelry Company. (See Weiler, Joseph C., assignor.)
- Baumann, Adolph, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Cooling apparatus for electrical machines. 1,733,179; Oct. 29.
- Baumann, Adolf, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Power-plant installation. 1,741,605; Dec. 31.
- Baumann, Emil, assignor to the firm Gebrüder Sulzer Aktiengesellschaft, Winterthur, Switzerland. Boring machine. 1,702,717; Feb. 19.
- Baumann, Fritz, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. New cotton dyestuff of the anthraquinone series. 1,730,186; Oct. 1.
- Baumann, Gottfried P., assignor to Ideal Stitcher & Manufacturing Company, Chicago, Ill. Wire stitcher. 1,718,199; June 18.
- Baumann, Gottfried P., assignor to Ideal Stitcher & Manufacturing Co., Chicago, Ill. Check pawl for wire stitchers. 1,718,200; June 18.
- Baumann, Karl, Urnston, England, assignor to Westinghouse Electric & Manufacturing Company. Labyrinthine packing. 1,708,044; Apr. 9.
- Baumann, Karl, Urnston, England, assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade shrouding. 1,720,754; July 16.
- Baumann, Le Roy C., Chicago, Ill. Radio reproducer. 1,741,274; Dec. 31.
- Baumann, Milton C., Dayton, Ohio. Retractable landing gear. 1,718,189; June 18.
- Baumberger, William J. (See Yerck, H. H., and Baumberger.)
- Baumberger, William J., assignor to Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,728,653; Sept. 17.
- Baumberger, William J., Davenport, assignor to Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,730,833; Oct. 8.
- Baumé, Edwail J., Santa Monica, Calif. Sliding-panel holder. 1,704,357; Mar. 5.
- Baumgardner, Earl W. (See Baumgardner, William L. and E. W.)
- Baumgardner, William L. and E. W., Watsonville, Calif. Carburetor. 1,706,557; Mar. 26.
- Baumgart, Charles, New York, N. Y. Egg-stamping machine. 1,711,715; May 7.
- Baumgarth, Frederick W., Detroit, Mich. Permutation lock. 1,717,956; June 18.
- Baumheckel, William M., assignor to Lincoln Manufacturing Company, Connerville, Ind. Auxiliary transmission. 1,702,889; Feb. 19.
- Baur, Hugo J., and E. H. Thompson, assignor, by mesne assignments, to S. S. Gorham, trustee, Chicago, Ill. Zone fare system. 1,734,283; Nov. 5.
- Baur, Raymond H., Kenilworth, D. C. Vehicle lamp signal. 1,717,544; June 18.
- Bausch, Edward, and W. L. Patterson, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-focusing mechanism. 1,711,768; May 7.
- Bausch, John J., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Lens grinding and polishing machine. 1,738,555; Dec. 10.
- Bausch & Lomb Optical Company. (See Bausch, E., and Patterson, assignors.)
- Bausch and Lomb Optical Company. (See Bausch, John J., assignor.)
- Bausch and Lomb Optical Company. (See Bernheim, Eugene C., assignor.)
- Bausch & Lomb Optical Company. (See Bouchard, Samuel, E., assignor.)
- Bausch and Lomb Optical Company. (See Day, George H., assignor.)
- Bausch and Lomb Optical Company. (See Flodin, Oscar H., assignor.)
- Bausch & Lomb Optical Company. (See Foster, Leon V., assignor.)
- Bausch & Lomb Optical Company. (See Gallasch, George B., assignor.)
- Bausch & Lomb Optical Company. (See Haering, Carl G., assignor.)
- Bausch & Lomb Optical Company. (See Koehler, August F., assignor.)
- Bausch & Lomb Optical Company. (See McCabe, Joseph J., assignor.)
- Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)
- Bausch & Lomb Optical Company. (See Rayton, Wilbur B., assignor.)
- Bausch & Lomb Optical Company. (See Simonds, Royal H., assignor.)
- Bausch & Lomb Optical Company. (See Stark, Sander, assignor.)
- Bausch and Lomb Optical Company. (See Stevens, Frederick A., assignor.)
- Bausch and Lomb Optical Company. (See Stevens, F. A., and Welsh, assignors.)
- Bausch & Lomb Optical Company. (See Welsh, James W., assignor.)
- Bausch and Lomb Optical Company. (See Welsh, J. W., and Stevens, assignors.)
- Bausinger, Henry C., Jr., and H. D. Barnes, Bucyrus, Ohio. Salvage-cutting mechanism for looms. 1,717,649; June 18.
- Bausinger, Henry C., Jr., and H. D. Barnes, Bucyrus, Ohio. Salvage attachment for temples. 1,717,650; June 18.
- Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Confection-coating machine. 1,711,716; May 7.
- Bausman, Alonzo L., assignor to National Equipment Company, Springfield, Mass. Electric metal-working machine. 1,730,050; Oct. 1.
- Bauspies, Raymond C., Maywood, Ill., assignor to Roto Tray Company. Smoker's tray. Des. 78,138; Apr. 2.
- Baust, A. B., et al. (See Lyon, Oscar B., assignor.)
- Baust, Georg. (See Geiger, H., and Baust.)
- Bautz, Daniel, Milwaukee, Wis. Portable measuring container. 1,720,755; July 16.
- Bawtree, Edward, Orpington, England. Organ. 1,742,121; Dec. 31.
- Baxter, Charles, Clapham, London, England. Converting rotary into reciprocating motion and vice versa. 1,728,716; Sept. 17.
- Baxter, Donald K., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,731,521; Oct. 15.
- Baxter, Frank J., Chicago, Ill. Sheet-separating machine. 1,702,293; Feb. 19.
- Baxter, Harold G. (See Krantz, H. K., and Baxter.)
- Baxter, Harold G., Baldwin, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Floor box. 1,705,707; Mar. 19.
- Baxter, Harold G., Baldwin, and H. K. Krantz, Rockville Center, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Narrow-type panel main switch. 1,730,311; Oct. 1.
- Baxter, Harold G., Baldwin, and F. von Hoern, Brooklyn, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Electric switch. 1,740,533; Dec. 24.
- Baxter, John B., Troy, assignor to Covert Manufacturing Company, Watervliet, N. Y. Combined harness slide and snap. 1,714,487; May 28.
- Baxter, John B., Troy, assignor to Covert Manufacturing Company, Watervliet, N. Y. Combined harness slide and snap. 1,714,488; May 28.



- Baxter, John B., Troy, assignor to Covert Manufacturing Company, Watervliet, N. Y. Combined harness slide and snap. 1,714,489; May 28.
- Baxter-Lane Corporation. (See Lane, William R., assignor.)
- Baxter, William C., Berkeley, Calif. Extracting mercury from cinnabar. 1,718,103; June 18.
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,700,970; Feb. 5.
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,702,397; Feb. 19.
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,706,474; Mar. 26.
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,709,833; Apr. 23.
- Baxter, William M., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind. Continuous-operation absorption ice machine. 1,708,998; Apr. 16.
- Bay State Fishing Company. (See English, A. M., and Chase, assignors.)
- Bay State Fishing Company. (See Gallison, Ernest A., assignor.)
- Bay State Optical Company. (See Blair, Robert S., assignor.)
- Bay State Optical Company. (See Flavin, Charles L., assignor.)
- Bay State Optical Company. (See Nerney, Edwin D., assignor.)
- Bay State Optical Company. (See Siddall, Wilbur H., assignor.)
- Bay State Rug Company. (See Coram, John C., assignor.)
- Bayard, Joseph T., Chicago, Ill. Barber's chair. 1,699,460; Jan. 15.
- Bayard, Morris L., and M. Harvey, Philadelphia, Pa. Filter-sand-cleaning machine. 1,713,320; May 14.
- Bayer, Johann. (See Courtin, E., and Bayer.)
- Bayer, Julius, Augsburg, Germany. Intermittently-operating absorption refrigerating machine. 1,717,909; June 18.
- Bayer, Leo J., St. Louis, Mo. Manufacturing metal tubing. 1,712,543; May 14.
- Bayer, Matthew F., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead rail. 1,717,363; June 18.
- Bayer, Pretzfelder and Mills, Incorporated. (See Katz, David E., assignor.)
- Bayerische Stickstoff Werke Aktiengesellschaft. (See Popoff, Methodi, assignor.)
- Bayerl, Alfons. (See Heimann, H., and Baverl.)
- Bayerl, Alfons. (See Heimann, H., Seefried, Petersen, and Baverl.)
- Bayet, Jules A., assignor to Société Anonyme des Cristalleries de Nancy, Nancy, France. Drilling device for the manufacture of glass-bottle necks. 1,717,304; June 11.
- Bayha, William G., Perkaskie, J. I. Hellerman, sr., Almont, and J. Schall, Sellersville, Pa., assignors to United States Gauge Company, New York, N. Y. Gauge. 1,731,520; Oct. 15.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,726,334; Aug. 27.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Water tube for rock drills. 1,739,117; Dec. 10.
- Bayles, Lewis C., Easton, Pa., and G. G. Tuttle, Phillipsburg, assignors to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,708,116; Apr. 9.
- Bayley, Arthur J., Milwaukee, Wis. Front-wheel drive. 1,734,709; Nov. 5.
- Bayley, William, Springfield, Ohio. Silo. 1,718,519; June 25.
- Bayley, William, Springfield, Ohio. Silo. 1,718,729; June 25.
- Baylis, Albert W., Scarsdale, N. Y. Producing wide loom fabrics. 1,718,273; June 25.
- Baylis, John R., Baltimore, Md., assignor to Leeds & Northrup Company, Philadelphia, Pa. Tungsten electrode for determining ion concentration. 1,727,094; Sept. 3.
- Baylis, Robert N., Caldwell, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoker's stand. Des. 7,726; June 18.
- Baylis, Robert N., Caldwell, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J. Match-package holder. 1,737,139; Nov. 26.
- Baylis, Walter S., Los Angeles, Calif., assignor, by mesne assignments, to Filtrol Company of California. Decolorizing and refining crude cottonseed oil. 1,725,895; Aug. 27.
- Bayliss, Gilbert T. (See Pugh, J. V., and Bayliss.)
- Bayliss, John T., South Jamaica, N. Y. Flue cover and deflector. 1,706,389; Mar. 26.
- Baynard, William H., Quincy, assignor to H. H. Beckwith, Brookline, Mass. Shoe heater. 1,710,287; Apr. 23.
- Baynard, William H., Quincy, assignor to H. H. Beckwith, Brookline, Mass. Assembling stiffeners in shoe uppers and the article produced thereby. 1,722,654; July 30.
- Baynes, William J., Buffalo, N. Y. Apparatus for ejecting ice cream and the like from containers. 1,738,814; Dec. 10.
- Baynes, William J., Buffalo, N. Y. Apparatus for ejecting ice cream from containers. 1,740,386; Dec. 17.
- Bayton, Edward A., Detroit, Mich., assignor to The Lees-Bradner Company, Cleveland, Ohio. Loading device for grinding machines. 1,720,620; July 9.
- Bayuk Cigars Incorporated. (See Lyle, Kenneth, assignor.)
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Buttoning machine. 1,702,398; Feb. 19.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for preparing heel breast flaps. 1,711,984; May 7.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,740,448; Dec. 24.
- Beach, Brewster S., White Plains, assignor to American Gas Products Corporation, New York, N. Y. Gas cooking stove. 1,712,544; May 14.
- Beach, David K., assignor to Riley Stoker Corporation, Worcester, Mass. Single-zone pulverizing apparatus. 1,724,895; Aug. 20.
- Beach, Frederick H., Batavia, Ill. Fence gate. 1,722,365; July 30.
- Beach, George F., assignor to F. J. Ryan and Company, Philadelphia, Pa. Conveyor for high-temperature furnaces. 1,739,497; Dec. 17.
- Beach, H. D., Company, The. (See Gibson, Francis W., assignor.)
- Beach, Hobart C., Covington, Ky., assignor to The Carborundum Company, Niagara Falls, N. Y. Grinding wheel and holder therefor. 1,710,528; Apr. 23.
- Beach, Ralph H., Royal Oak, Mich., assignor, by mesne assignments, to International Radiator Corp., Port Chester, N. Y. Radiator. 1,737,557; Dec. 3.
- Beach, Ralph H., Royal Oak, Mich., assignor, by mesne assignments, to International Radiator Corp., Port Chester, N. Y. Temperature-changing unit. 1,737,558; Dec. 3.
- Beach, Ralph H., Royal Oak, Mich., assignor, by mesne assignments, to International Radiator Corp., Port Chester, N. Y. Heating unit. 1,737,633; Dec. 3.
- Beach, Robert C. (See Weinman, E. A., and Beach.)
- Beach, Willard C., Newark, N. J. Paint-spraying apparatus. 1,727,500; Sept. 10.
- Beach, William C., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 1,708,933; Apr. 9.
- Beach, William C., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control system for producing signals of various frequencies. 1,724,900; Aug. 20.
- Beach, Zella H., Rainier, Oreg. Mending kit. 1,710,337; Apr. 23.
- Beacham, Thomas E. (See Hele-Shaw, H. S., and Beacham.)
- Beachen, Albert E., Providence, assignor to Easton & Burnham Machine Co., Pawtucket, R. I. Stopping-mechanism control. 1,721,291; July 16.
- Beacon Devices, Inc. (See Cone, David S., assignor.)
- Beacon Falls Rubber Shoe Company, The. (See Hopwood, William B., assignor.)
- Beacon Folding Machine Company. (See Ridderstrom, Andrew R., assignor.)
- Beacon Oil Company. (See Hewetson, Henry H., assignor.)
- Beacon Steel Furniture Co. (See Clarin, Werner E., assignor.)
- Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
- Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
- Bead Chain Manufacturing Company, The. (See McCretton, George, assignor.)
- Beadle, Warren E., Port Arthur, Ontario, Canada. Paper-drying machinery. 1,738,520; Dec. 10.
- Beagle, Victor E., Russell Road, Va. Cover for curb boxes and the like. 1,738,556; Dec. 10.
- Beal, Carl L., assignor to Eastman Kodak Company, Rochester, N. Y. Coating aluminum electrolytically. 1,727,331; Sept. 10.
- Beal, Fay, Kokomo, Ind. Telltale for stop and tail lights. 1,712,784; May 14.
- Beale, Charles E. (See Passmore, W. O., and Beale.)
- Beale, Cyrus W., Richmond, Va. Blank book. 1,733,048; Oct. 22.
- Beale, Evelyn S. L., G. H. Coxon, and A. E. Dunstan, assignors to Anglo-Persian Oil Company, Limited, London, England. Pressure cracking treatment of liquid hydrocarbons. 1,708,782; Apr. 9.
- Beall, Frank H. (See Bradner, D. B., and Beall.)
- Beall Pipe and Tank Corporation. (See Olsen, Arthur J., assignor.)
- Beall, William L., Chattanooga, Tenn., assignor to International Harvester Company, Cane mill. 1,709,552; Apr. 16.
- Beals, Erl V., Boston, Mass. Internal-combustion engine. 1,698,468; Jan. 8.
- Beals, Erl V., Boston, Mass. Carburetor. 1,739,817; Dec. 17.



- Beals, Erl V., Boston, Mass. Carburetor. 1,739,818; Dec. 17.
- Beals, Walton W., New York, N. Y. Fuel burner. 1,711,035; Apr. 30.
- Beam, Charles C., assignor to The Potomac Glass Company, Cumberland, Md. Candle holder or similar article. Des. 77,634; Feb. 5.
- Beaman, Arthur W., Worcester, Mass. Garment clasp. 1,716,412; June 11.
- Beaman, Jay F., Berkeley, Calif. Hexagonal game board for checkers and the like. 1,704,819; Mar. 12.
- Bean, Dixon L., assignor to Hamilton-Ross Factories Incorporated, Chicago, Ill. Lamp base. Des. 77,729; Feb. 19.
- Bean, Dixon L., assignor to Hamilton-Ross Factories Incorporated, Chicago, Ill. Lamp base. Des. 77,730; Feb. 19.
- Bean, Dixon L., assignor to Hamilton-Ross Factories Incorporated, Chicago, Ill. Lamp base. Des. 77,731; Feb. 19.
- Bean, Dixon L., assignor to Hamilton-Ross Factories Incorporated, Chicago, Ill. Lamp base. Des. 77,732; Feb. 19.
- Bean, Dixon L., assignor to Hamilton-Ross Factories Incorporated, Chicago, Ill. Lamp base. Des. 77,733; Feb. 19.
- Bean, Elden H., Kitchener, Ontario, Canada. Disappearing bed. 1,724,066; Aug. 13.
- Bean, Herbert S., Wilmington, Del. Maximum-demand-load regulator. 1,710,681; Apr. 30.
- Bean, Irving W., Braintree, Mass. Perfumery bottle. Des. 78,002; Mar. 19.
- Bean, Milton B., Lansdale, Pa. Nail. 1,699,421; Jan. 15.
- Bean, Montague B. (See Grant, W. E., and Bean.)
- Bean, Ormond R., Portland, Ore. Unitary combined tub and surgical basin. 1,741,606; Dec. 31.
- Bean, William L., West Haven, and V. L. Jones, New Haven, Conn., assignors to McClellon Locomotive Boiler Company, Boston, Mass. Fire box. 1,706,376; Mar. 19.
- Beange, Alexander, Anaconda, Mont. Flow. 1,732,459; Oct. 22.
- Bear, Grover E., Allentown, Pa. Pulverizer. 1,729,471; Sept. 24.
- Bear, Ralston E., Los Angeles, Calif., assignor to General Electric Company. Automatic switching equipment. 1,714,938; May 28.
- Beard, Elmer, Niagara Falls, N. Y. Hand truck extension frame. 1,724,171; Aug. 13.
- Beard, Joseph H., Toledo, Ohio. Device for trimming reeds of musical instruments. 1,723,674; Aug. 6.
- Beard, Ralph E., Corsicana, Tex. Combination shoe stool, foot measure, register, and mirror. 1,697,900; Jan. 8.
- Beard, Raymond R. (See Handy, R. S., and Beard.)
- Beard, Robert, Philadelphia, Pa. Pole-protecting device. 1,735,722; Nov. 12.
- Beardmore, Alfred O. T., Toronto, Ontario, Canada. Treatment of leather. 1,704,718; Mar. 12.
- Beardmore, William. (See Chorlton, Alan E. L., assignor.)
- Beardmore, William, Lord Invernairn. (See Chorlton, Alan E. L., assignor.)
- Beardsell, Arthur W., Milford, assignor to Draper Corporation, Hopedale, Mass. Filling replenishing loom. 1,727,316; Sept. 3.
- Beardslee Chandelier Manufacturing Co. (See Ohm, Albert J. D., assignor.)
- Beardsley, Bruce. (See Mason, H., Beardsley, and Birkmeyer.)
- Beardsley, Charles E., assignor, by mesne assignments, to The Beardsley and Wolcott Manufacturing Company, Waterbury Conn. Toilet-roll holder. 1,721,200; July 16.
- Beardsley, Charles E., and E. P. Wallace, assignors to The Beardsley and Wolcott Manufacturing Company, Waterbury, Conn. Cigar lighter. Des. 79,175; Aug. 13.
- Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)
- Beardsley & Piper Company, The. (See Stratford, Nathaniel W., assignor.)
- Beardsley and Wolcott Manufacturing Company, The. (See Beardsley, Charles E., assignor.)
- Beardsley and Wolcott Manufacturing Company, The. (See Beardsley, C. E., and Wallace, assignors.)
- Beardsley & Wolcott Mfg. Co., The. (See Wolcott, Frank E., assignor.)
- Beardsley and Wolcott Manufacturing Company, The. (See Smith, Alva T., assignor.)
- Beardsley, Elmer O., and W. F. Piper, assignors to The Beardsley & Piper Company, Chicago, Ill. Cage for roller bearings. 1,715,014; May 28.
- Beardsley, Elmer O., and W. F. Piper, assignor to The Beardsley & Piper Company, Chicago, Ill. Molding machine. 1,717,651; June 18.
- Beardsley, Elmer O., and W. F. Piper, assignors to The Beardsley & Piper Company, Chicago, Ill. Molding machine. 1,717,652; June 18.
- Beardsley, Elmer O., and W. F. Piper, assignors to The Beardsley & Piper Company, Chicago, Ill. Sand elevator. 1,719,496; July 2.
- Beardsley, Lester A., assignor to Norwich Wire Works, Inc., Norwich, N. Y. Game trap. 1,721,064; July 16.
- Beardsley, Lester A., assignor to Norwich Wire Works, Inc., Norwich, N. Y. Game trap. 1,728,324; Sept. 17.
- Beardsley, R. O. (See Porter, R. W., and Beardsley.)
- Beardsley, Robert, Chicago, Ill. Bead former. 1,732,324; Oct. 22.
- Beardsley, Robert O. (See Flanders, R. E., and Beardsley.)
- Beardsley, Robert O., assignor to Jones & Lamson Machine Company, Springfield, Vt. Mounting for screws and taps. 1,715,813; June 4.
- Beare, Samuel T., Jackson, Tenn. Refrigeration. 1,723,460; Aug. 6.
- Beare, Samuel T., Jackson, Tenn. Refrigerator. 1,724,391; Aug. 13.
- Beasley, Ernest C., Joplin, Mo. Carburetor. 1,737,070; Nov. 26.
- Beasley, Douglas, Livermore, Calif. Changeable sign. 1,732,178; Oct. 15.
- Beasley, Walton M., et al. (See Todd, John N., jr., assignor.)
- Beath, Lancelot B. and W. D., Toronto, Ontario, Canada. Steel barrel. 1,696,996; Jan. 1.
- Beath, William D. (See Beath Lancelot B. and W. D.)
- Beaton, Mary J. D., New York, N. Y. Swimmer's girdle and collar. 1,708,532; Apr. 9.
- Beatty, Earle J. R., Edgewood, assignor to Universal Optical Corporation, Providence, R. I. Bridge for an eye-glass mounting. Des. 78,703; June 11.
- Beatty, Earle J. R., Edgewood, assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,706,343; Mar. 19.
- Beatty, Earle J. R., Edgewood, R. I. Ophthalmic mounting. 1,741,806; Dec. 31.
- Beatty, Earle J. R., Edgewood, and J. N. Nelson, Cranston, R. I., assignors to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,741,807; Dec. 31.
- Beattie, Bertha A., Quincy, Mass. Water-wave comb. 1,706,136; Mar. 19.
- Beattie, James H., McLean, Va., and A. M. Jackson, Chevy Chase, Md. Preservation of peanut butter. 1,731,647; Oct. 15.
- Beattie, James L., Delavan, Wis. Garment. 1,697,380; Jan. 1.
- Beattie Manufacturing Co., The. (See Beattie, Walter J., assignor.)
- Beattie, Walter J., assignor to The Beattie Manufacturing Co., Cohoes, N. Y. Collar-folding machine. 1,698,469; Jan. 8.
- Beattie, William P. (See Johnson, G. W., and Beattie.)
- Beattie, William P., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Control mechanism for centrifugal extractors. 1,701,743; Feb. 12.
- Beatty, George W. (See Dabrasky, A., and Beatty.)
- Beatty, George W., Decatur, Ill. Fuse-setting machine. 1,697,159; Jan. 1.
- Beatty, James A. (See Underwood, C. E., and Beatty.)
- Beatty, John D., Los Angeles, Calif. Paper-making machine. 1,736,570; Nov. 19.
- Beatty, Robert J., assignor to The Federal Glass Company, Columbus, Ohio. Tumbler or article of similar nature. Des. 77,873; Mar. 5.
- Beatty, Stephen M., Los Angeles, Calif. Shielding device for vehicles. 1,698,871; Jan. 15.
- Beatty, William F., Cincinnati, Ohio. Soda-fountain and ice-cream service or dispensing apparatus. 1,709,515; Apr. 16.
- Beatty, William F., Cincinnati, Ohio. Ice-cream manufacturing and dispensing apparatus. 1,709,516; Apr. 16.
- Beatty, William F., Laurel Hill, N. Y., assignor to Elevator Supplies Company, Inc. Elevator indicator. 1,700,112; Jan. 22.
- Beatty, William G., Fergus, Ontario, Canada. Wringer. 1,713,686; May 21.
- Beaubien, Alphonse, Bridge River British Columbia, Canada. Starting crank for internal-combustion engines. 1,720,778; July 16.
- Beaubien, Robert E. (See Arcus, J. S., and Beaubien.)
- Beaubien, Robert E., Chicago, Ill. Air-current deflector and dust collector. 1,730,304; Jan. 29.
- Beauchamp, George D. et al. (See Dopyera, John, assignor.)
- Beauchamp, Joseph E., Montreal, Quebec, Canada. Door-operated switch. 1,716,998; June 11.
- Beaudry, George P., Montreal, Quebec, Canada. Metal-vapor lamp. 1,736,642; Nov. 19.
- Beauford, Herman J., Highland Park, Mich. Luggage carrier. 1,711,717; May 7.
- Beaujard, George, jr., assignor to Meyer Koulisch Co., Inc., New York, N. Y. Ring. 1,712,417; May 7.
- Beaulieu, Frank O., San Francisco, Calif. Combined clutch and brake. 1,713,018; May 14.
- Beaulieu, Lester E., assignor of one-third to C. R. Kennedy and one-third to H. A. Drane, Lincoln, Calif. Interior auto cleaner. 1,722,265; July 30.
- Beaumont, Leon, Hollywood, Los Angeles, Calif. Direction signal. 1,727,854; Sept. 10.
- Beaumont, George H., and J. C. Monteith, assignors to Sterling Spring Company, Cleveland, Ohio. Spring member. 1,733,364; Oct. 29.
- Beaumont, George H., and J. C. Monteith, assignors to Sterling Spring Company, Cleveland, Ohio. Vehicle spring. 1,733,365; Oct. 29.
- Beaumont Manufacturing Company. (See Lowenthal Harry N., assignor.)
- Beaumont, R. H., Company. (See Alexander, William P., assignor.)
- Beaumont, R. H., Company. (See Beaumont, Robert H., assignor.)



- Beaumont, R. H., Co. (See Hale, William E., assignor.)  
 Beaumont, R. H., Co. (See Hill, Warren H., assignor.)  
 Beaumont, R. H., Company. (See Oettle, Harry B., assignor.)  
 Beaumont, R. H., Company. (See Warner, Arthur, assignor.)  
 Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Co., Philadelphia, Pa. Material-handling system. 1,703,071; Feb. 19.  
 Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Co., Philadelphia, Pa. Hoisting apparatus. 1,707,197; Mar. 26.  
 Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Skip hoist. 1,707,954; Apr. 2.  
 Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Skip-hoist structure. 1,708,913; Apr. 9.  
 Beaumont, Robert H., Radnor, assignor to Beaumont Manufacturing Company, Philadelphia, Pa. Hopper gate. 1,716,337; June 4.  
 Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Drag scraper. 1,721,479; July 16.  
 Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Storage and reclaiming system. 1,740,722; Dec. 24.  
 Beurienne, Auguste, Paris, France. Heat accumulator. 1,737,490; Nov. 26.  
 Beauty Parlor Designator Manufacturing Corporation. (See Nicholson, William C., assignor.)  
 Beaver, Charles J., Bowden, assignor to W. T. Glover and Company Limited, Manchester, England. Twin and multicore electric cable. 1,700,606; Jan. 29.  
 Beaver, Charles J., Bowden, assignor to W. T. Glover & Company Limited, Manchester, England. Manufacture of multicore electric cables. 1,711,555; May 7.  
 Beaver, Harry R., assignor of one-half to A. Klusmeier, Evansville, Ind. Automobile bumper. 1,702,027; Feb. 12.  
 Beaver Machine & Tool Co. (See Downing, John B., assignor.)  
 Beaver Machine & Tool Co. (See Gehring, John, assignor.)  
 Beaver Machine & Tool Co. (See Slade, Harold E., assignor.)  
 Beaver Machine & Tool Co. (See Slade, H. E., and Downing, assignors.)  
 Beaver Manufacturing Co. (See Streun, Louis J., assignor.)  
 Bebb, Harry T., assignor to The Canton Stamping & Enameling Company, Canton, Ohio. Burning rack. 1,738,030; Dec. 3.  
 Bebb, Harry T., assignor to The Canton Stamping & Enameling Company, Canton, Ohio. Burning-rack attachment. 1,738,031; Dec. 3.  
 Bebel, Abraham, Brooklyn, N. Y., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Needle-protecting attachment for sewing machines. 1,732,394; Oct. 22.  
 Bebensee, Max, W. C. Children, Council Bluffs, and M. Martin, Hancock, Iowa. Seed thrasher. 1,735,104; Nov. 12.  
 Bebout, Earl R., Indianapolis, Ind. Chiropractic table. 1,710,400; Apr. 23.  
 Beby, Percival P., West Roxbury, Mass., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Bed. 1,732,493; Oct. 22.  
 Bech, Charles O., New Rochelle, N. Y. Oil burner. 1,722,991; Aug. 6.  
 Bech, Charles O., New Rochelle, N. Y. Oil burner. 1,723,759; Aug. 6.  
 Bechard, Joseph C., Fall River, Mass. Spiral rotary ship or similar vessel. 1,708,648; Apr. 9.  
 Becher, Harold. (See Canton, A. A., and Becher.)  
 Becher, Theodor, Gustavsburg, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Germany. Packing of weirs. 1,707,039; Mar. 26.  
 Becher, William, jr., Youngstown, N. Dak. Hog scalder. 1,739,436; Dec. 10.  
 Bécherat, Louis, Paris, France. Shock absorber. 1,713,515; May 21.  
 Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Plate-clamping device. 1,707,108; Mar. 26.  
 Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Journal box. 1,714,153; May 21.  
 Bechmann, William, Philadelphia, Pa. Massager and exerciser. 1,702,991; Feb. 19.  
 Bechtel, Robert M., Philadelphia, assignor, by mesne assignments, to J. T. Hadly, Berwyn, Pa. Metallic stair construction. 1,701,659; Feb. 12.  
 Bechtel, Archie H., Daytona Beach, Fla., and W. A. Tratsch, Chicago, Ill. Amusement device. 1,721,201; July 16.  
 Beck, August W., Pittsburgh, Pa. Toy. 1,715,891; June 4.  
 Beck, August W., assignor to Metal Toy Company, Pittsburgh, Pa. Toy. Re-17,312; June 4.  
 Beck, Carl A., Cherryville, Oreg. Undercutter. 1,716,946; June 11.  
 Beck, Charles, Colbert, Wash. Flexible threshold. 1,700,152; Jan. 29.  
 Beck, Charles J., Philadelphia, Pa. Feeding mechanism for sheet-cutting machines. 1,707,839; Apr. 2.  
 Beck, Charles J., Philadelphia, Pa. Cutting and folding machine. 1,715,271; May 28.  
 Beck, Charles W., Toledo, Ohio, assignor to Beck-Frost Corporation, Detroit, Mich. Molding. 1,705,746; Mar. 19.  
 Beck, Charles W., Toledo, Ohio, assignor to Beck-Frost Corporation, Detroit, Mich. Steering wheel. 1,723,004; Aug. 6.  
 Beck, Charles W., Toledo, Ohio, assignor to Beck-Frost Corporation, Detroit, Mich. Steering wheel. 1,723,005; Aug. 6.  
 Beck, Charles W., Detroit, Mich. Acetylene-gas generator. 1,719,162; July 2.  
 Beck, Charles W., assignor to Beck-Frost Corporation, Detroit, Mich. Steering wheel. 1,740,387; Dec. 17.  
 Beck, Christoph. (See Wild, W., and Beck.)  
 Beck, Christoph, Ludwigshafen-on-the-Rhine and H. Diekmann, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Liquefying oxides of nitrogen. 1,741,906; Dec. 31.  
 Beck, Curt, Halle, Germany. Track-moving machine. 1,730,029; Oct. 1.  
 Beck, Edward C., Spokane, Wash. Transplanting tool. 1,726,207; Aug. 27.  
 Beck, Ernest T., assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 77,349; Jan. 1.  
 Beck, Ernest T., assignor to International Silver Co., Meriden, Conn. Coffeepot or similar article. Des. 77,459; Jan. 15.  
 Beck, Frederick A., New York, N. Y. Hand bag. Des. 78,684; June 4.  
 Beck-Frost Corporation. (See Beck, Charles W., assignor.)  
 Beck, George C., Spokane, Wash. Machine for making expander steel. 1,741,905; Dec. 31.  
 Beck, George C., Spokane, Wash. Making expander steel. 1,741,907; Dec. 31.  
 Beck, Heinrich, Vienna, Austria. Combination lock. 1,706,994; Mar. 26.  
 Beck, Howard, Pocatello, assignor of nine-tenths to M. Hurbough, Bliss, Idaho. Carburetor for internal-combustion engines. 1,740,917; Dec. 24.  
 Beck, James E., Mechanicsburg, Pa. Illuminated ornamental device for decorative purposes. 1,722,886; July 30.  
 Beck, John D., Montgomery, Ala. Liquid cooler. 1,720,163; July 9.  
 Beck, John G., and V. F. Blakeslee, Pittsburgh, Pa. Ball-last cleaning and replacing machine. 1,710,963; Apr. 30.  
 Beck, Joseph W., Jersey City, N. J. Ticket book. 1,716,290; June 4.  
 Beck, Leo L., Linden, N. J. Stabilized vacuum tube-lighting system. 1,739,498; Dec. 17.  
 Beck, Lester E., Kelly Station, Pa. Electrically-operated power device. 1,736,643; Nov. 19.  
 Beck, Mary V., Long Beach, Calif. Spring inner tube. 1,734,323; Nov. 5.  
 Beck, Max. (See Bender, C., and Beck.)  
 Beck, Ralph G. A., Montreal, Quebec, Canada. Nipple for nursing bottles and the like. 1,714,757; May 28.  
 Beck, Wesley J., and J. A. Aupperle, assignors to The American Rolling Mill Company, Middletown, Ohio. Enameling metal. 1,704,586; Mar. 5.  
 Beck, William E., assignor, by mesne assignments, to F. C. Traver Paper Company, Chicago, Ill. Machine for making box partitions. 1,710,467; Apr. 23.  
 Becker, Aloysius W., Chicago, Ill. Space heater. Des. 77,874; Mar. 5.  
 Becker, Arman E., Elizabeth, N. J., and A. B. Boehm, Saranac Lake, N. Y., assignors to Standard Oil Development Company. Leather oil and making the same. 1,715,892; June 4.  
 Becker, Arman E., Elizabeth, N. J., assignor to Standard Oil Development Company. Belt dressing and making the same. 1,721,762; July 23.  
 Becker, Arman E., Newark, and J. R. Schonberg, Westfield, N. J., assignors to Standard Oil Development Company. Distillation apparatus. 1,730,112; Oct. 1.  
 Becker, Bernard C., Rome, N. Y., assignor to The Yoder Pencil Company, Cleveland, Ohio. Lead pencil. 1,724,173; Aug. 13.  
 Becker, Bernard C., York, Pa., assignor to The Yoder Pencil Company, Cleveland, Ohio. Lead pencil. 1,729,814; Oct. 1.  
 Becker, Bernard C., York, Pa., assignor to The Yoder Pencil Company, Cleveland, Ohio. Lead pencil. 1,729,815; Oct. 1.  
 Becker, Charles H., West Allis, Wis., assignor to The Turner Tanning Machinery Company, Portland, Me. Machine for treating hides, skins, and leather. 1,707,383; Apr. 2.  
 Becker, Christian, assignor to Mattison Machine Works, Rockford, Ill. Sanding drum. 1,721,172; July 16.  
 Becker, De Witt C. (See Grigsby, Marion W., assignor.)  
 Becker, Earl. (See Dunham, John A., assignor.)  
 Becker, Edmund H. (See Martus, M. L., Becker, and Ross.)  
 Becker, Ellsworth D. and A. B. Elliott, Reading, Pa. Finger-ring guard. 1,741,908; Dec. 31.  
 Becker, Frank M., Bethlehem, Pa. Snowplow. 1,705,389; Mar. 12.  
 Becker, Fred F. (See Davis, C. W., and Becker.)  
 Becker, Fred L., Oak Park, Ill. Footplate. 1,714,655; May 28.



- Becker, Fred P., assignor to Monroe Auto Equipment Manufacturing Company, Monroe, Mich. Hydraulic shock absorber. 1,704,527; Mar. 5.
- Beckett, Frederick M., New York, N. Y., assignor, to Electro Metallurgical Company. Alloy. 1,710,445; Apr. 23.
- Becker, Frederick W., Albany, N. Y., assignor to Water vilet Tool Company, Inc. Reamer-spring pilot guide 1,729,862; Oct. 1.
- Becker, Harry G., Albany, N. Y. Car replacer. 1,733,855; Oct. 29.
- Becker, Heinrich, Kiel-Hassee, assignor to Fried. Krupp Germanlawerft, Keil-Gaarden, Germany. Safety governor for two-stroke engines designed for the propulsion of vehicles. 1,703,381; Feb. 26.
- Becker, Heinrich, assignor to the firm: Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Cylinder for double-acting two-stroke Diesel engines with slotted exhaust opening and divided cylinder liner. 1,710,857; Apr. 30.
- Becker, Heinrich, assignor to the firm Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Maneuvering device with valve gear. 1,716,999; June 11.
- Becker, John, San Diego, Calif. Combined congealer and sizer. 1,701,744; Feb. 12.
- Becker, John, San Diego, Calif. Dehydrating flaked agar or the like. 1,703,654; Feb. 26.
- Becker, John, San Diego, Calif. Agar product and producing the same. 1,712,785; May 14.
- Becker, John, assignor to American Agar Company, San Diego, Calif. Dewaterer for flaked agar or the like. 1,726,942; Sept. 3.
- Becker, John H., Pittsburgh, Pa. Exhaust-nozzle tip for locomotives. 1,703,052; Feb. 19.
- Becker, John H., Richmond Hill assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y. Warp-supporting means for warp-twisting-in machines. 1,697,103; Jan. 1.
- Becker, John H., Richmond Hill, assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y. Twisting mechanism for warp-twisting-in machines. 1,706,390; Mar. 26.
- Becker, Joseph, Pittsburgh, Pa., assignor, by mesne assignments, to The Koppers Company. Coking-retort oven. 1,701,224; Feb. 26.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Standpipe apparatus. 1,700,971; Feb. 5.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Fuel-gas-distributing system for coke ovens. 1,704,239; Mar. 5.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,706,476; Mar. 26.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking coal in a retorting space. 1,707,427; Apr. 2.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,721,763; July 23.
- Becker, Julius H. (See English, G. P. and Becker.)
- Becker, Leo B. (See O'Neil, L. J. and Becker.)
- Becker, Leroy A., Rochester, N. Y. Illuminated star. 1,703,072; Feb. 19.
- Becker, Mathias B., Chicago, Ill. Draft regulator for heating plants. 1,740,567; Dec. 24.
- Becker, Oscar, Berlin-Treptow, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Magazine change box for daylight-loading plate packs. 1,719,961; July 9.
- Becker, Otto, Berlin-Hennigsdorf, assignor to Porzellan-fabrik Ph. Rosenthal & Co. A.-G., Berlin, Germany. Electric suspension insulator. 1,722,887; July 30.
- Becker, Otto, Berlin-Hennigsdorf, assignor to Porzellan-fabrik Ph. Rosenthal & Co. A.-G., Berlin, Germany. Suspension insulator. 1,728,717; Sept. 17.
- Becker, Ralph K., assignor of forty-five one-hundredths to B. M. Kent, Cleveland, Ohio. Bottle cap. 1,713,321; May 14.
- Becker, Richard M., Nicollet, Minn. Churn guard. 1,705,654; Mar. 19.
- Becker, Robert A., Poughkeepsie, N. Y. Long-splice clamp. 1,701,094; Feb. 5.
- Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Loper-thread guide. 1,728,158; Sept. 10.
- Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hat-sewing machine. 1,731,221; Oct. 8.
- Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Multiple-thread tension-release mechanism. 1,735,071; Nov. 12.
- Becker, Theodor. (See Ebert, C. and Becker.)
- Becker, Walter A., assignor to Star Box & Printing Co., Chattanooga, Tenn. Folding box. 1,724,172; Aug. 13.
- Becker, Wayne A., Cincinnati, Ohio. Swimming-pool scum-gutter overflow control. 1,714,069; May 21.
- Beckerman, Mollie. (See Marinsky, Davis, assignor.)
- Beckert, Hans, Dresden-Lobtau, Germany. Swimming appliance. 1,706,974; Mar. 26.
- Beckert, Hans, Dresden-Lobtau, Germany. Device for preventing the breaking of fins in swimming shoes. 1,725,896; Aug. 27.
- Becket, Alan L., East Orange, N. J. Incandescent electric lamp and producing the same. 1,716,912; June 11.
- Becket, Alan L., East Orange, N. J. Vehicle light. 1,720,311; July 9.
- Becket, Frederick M., New York, N. Y. Anode for chromium plating. 1,720,312; July 9.
- Beckett, Frederick M., New York, N. Y. Anode for chromium plating. 1,720,313; July 9.
- Beckett, Frederick M., New York, N. Y., assignor to Electro Metallurgical Company. Manufacture of tungsten alloys low in tin and arsenic. 1,706,344; Mar. 19.
- Beckett, Frederick M., New York, and W. C. Read, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Smelting of tungsten ores. 1,705,655; Mar. 19.
- Beckett, Ernest G. (See Fairweather, D. A. W., Beckett, and Thomas.)
- Beckett, Ernest G., and J. Thomas, assignors to Scottish Dyers, Limited, Carlisle, England. Preparing dyestuffs derived from diphtalimido anthraquinones. 1,711,873; May 7.
- Beckett, William A., Kingsville, Ontario, Canada. Gas burner. 1,710,964; Apr. 30.
- Beck-Frost Corporation. (See Beck, Charles W., assignor.)
- Beckhardt, Gene G., Brooklyn, N. Y. Stocking frame. 1,697,968; Jan. 8.
- Beckley, Frank A., Evanston, and A. G. Larson, Chicago, Ill.; said Larson assignor of two one-hundredths of his right to said Beckley. Support for concrete forms. 1,719,528; July 2.
- Becklin, Oscar, Seattle, Wash. Quick-set wrench. 1,736,303; Nov. 19.
- Beckman, Arthur C., Mound City, S. Dak. Corn harvester. 1,717,305; June 11.
- Beckman, Burchard F., Fort Smith, Ark. Tie plate. 1,737,559; Dec. 3.
- Beckman, Herman C. (See Rushton, A. L., Simpson, and Beckman.)
- Beckman, Jacob H., Oakland, Calif. Cooler. 1,708,600; Apr. 9.
- Beckman, Jacob H., Oakland, Calif. Ammonia condenser. 1,716,681; June 11.
- Beckman, John W., Oakland, Calif. Extracting oils. 1,698,294; Jan. 8.
- Beckmann, August, Bryn Mawr, assignor to Thomas M. Royal & Co., Philadelphia, Pa. Bag machine. 1,714,585; May 28.
- Beckmann, George H., Saddle River, N. J. Windshield heater. 1,741,968; Dec. 31.
- Beckwith, Albert Y., administrator, et al. (See Rieke, Theodore W., assignor.)
- Beckwith, Albert Y., administrator. (See Schroeder, Anthony.)
- Beckwith, Charles F., et al. (See Peter, William J., assignor.)
- Beckwith, Charles J., Brooklyn, assignor to Johns-Manville Corporation, New York, N. Y. Service-station booth. Des. 78,804; June 25.
- Beckwith, Clinton H. (See Olson, C. A., and Beckwith.)
- Beckwith Company, The. (See Firestone, James F., assignor.)
- Beckwith, Edward S., Albion, Nebr. Rope halter. 1,734,891; Nov. 5.
- Beckwith, Harry E., et al. (See Van Patten, John W., assignor.)
- Beckwith, Harry H. (See Baynard, William H., assignor.)
- Beckwith, Harry H. (See Eager, Frederick W., assignor.)
- Beckwith, Harry H. (See Gould, Charles T., assignor.)
- Beckwith, Harry H. (See Jennings, M. O., and Alley, assignors.)
- Beckwith, Harry H. (See Lane, Elmer E., assignor.)
- Beckwith, Harry H., Brookline, Mass. Shoe stiffener and making the same. 1,704,276; Mar. 5.
- Beckwith, Harry H., Brookline, Mass. Coating device. 1,739,499; Dec. 17.
- Beckwith Manufacturing Company. (See Clapp, Albert L., assignor.)
- Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Rotary discharge for concrete mixers. 1,702,102; Feb. 12.
- Bectan, William L., Halls, Tenn. Combined backband buckle and trace-supporting loop. 1,734,414; Nov. 5.
- Bedard, Lewis A., Dedham, Mass. Playing cards. 1,704,457; Mar. 5.
- Beddington, Edward H. L., et al., executors. (See Beddington, Guy C.)
- Beddington, Guy C., deceased, Penn, England; E. H. L. Beddington and R. H. S. Waley, executors of said G. C. Beddington. Calling up device for wireless communication. 1,721,368; July 16.
- Beddoes, Hubert, assignor to Pacific Flush Tank Company, Chicago, Ill. Dosing-tank system. 1,715,185; May 28.
- Bedel, Anselm L., Belleville, Ill., assignor to E. D. Temperli, G. A. Ober, H. Temperli, and B. J. Ford, St. Louis, Mo. doing business as The Ace Company. Doughnut mold. Des. 77,875; Mar. 5.
- Bedell, Frederick, Ithaca, N. Y. Device for indicating oscillograph curves as stationary. 1,707,594; Apr. 2.
- Bedford, Charles S., Leeds, England. Mordanting and dyeing of wool. 1,735,844; Nov. 19.
- Bedford, Clayton W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and producing the same. 1,719,920; July 9.
- Bedford, Fred J., sr. (See Searcy, William T., assignor.)
- Bedford, James P., Forest Hills, N. Y., assignor to T. R. Brooks, Scranton, Pa. Signal arm. Des. 79,123; Aug. 6.
- Bedford Pulp & Paper Company. (See Brydges, W., and Foster, assignors.)
- Bednarski, Jacob J., Chicago, Ill. Railroad signaling system. 1,718,023; June 18.



- Beduorz, August, Minneapolis, Minn. Wrench attachment. 1,733,642; Oct. 29.
- Bee, May P., New York, N. Y. Handkerchief. 1,725,502; Aug. 20.
- Bee, Robert L., Bingham Canyon, Utah. Tie rack. 1,727,269; Sept. 3.
- Beears, Claude L., and J. Habart, assignors to The Bankers Savings & Credit System Company, Cleveland, Ohio. Coin bank. 1,700,732; Feb. 5.
- Beebe, Angelina M., et al. (See Gotchy, Joseph F., assignor.)
- Beebe, Murray C., Cheshire, Conn., H. V. Herlinger, Fort Thomas, Ky., and R. A. Swain, Norwood, Ohio, assignors to The Wadsworth Watch Case Co., Dayton, Ky. Lithographic plate and process of preparation. 1,740,061; Dec. 17.
- Beebe, Roy T., Seattle, Wash. Wrecking crane. 1,725,952; Aug. 27.
- Beebe, Royden E., Jr., Burlington, Vt. Loose-leaf binder. 1,735,031; Nov. 12.
- Beeby, John H., assignor to E. L. Patenaude, Montreal, Quebec, Canada. Gas burner. 1,731,090; Oct. 8.
- Beechlyn, John T., Worcester, Mass. Apparatus for projecting light. 1,698,905; Jan. 15.
- Beech-Nut Packing Company. (See Bauer, Theodore, assignor.)
- Beede, Elmer E., Pipestone, Minn. Water-cooling apparatus. 1,716,945; June 11.
- Beede, Robert J., Pawtucket, R. I. Garment-pressing machine. 1,715,115; May 28.
- Beegle, Raymond E., East St. Louis, Ill. Anchor. 1,702,376; Feb. 19.
- Beegle, Raymond E., East St. Louis, Ill. Timber anchor. 1,737,908; Dec. 3.
- Beehler Steel Products Company. (See Samson, William J., assignor.)
- Beehler, William, Baltimore, Md. Article-carrying brief bag. 1,727,954; Sept. 10.
- Beeker, William E., Riverside, Ill. Anchor. 1,713,516; May 21.
- Beekley, John S., assignor to Lazote, Inc., Wilmington, Del. Producing hydrogen. 1,711,036; Apr. 30.
- Beekley, Waldron C., West Hartford, and A. D. Martens, Hartford, assignors to The Whitlock Coil Pipe Company, West Hartford, Conn. Heat exchanger for recovering heat from waste process water. 1,703,655; Feb. 26.
- Beekman, Royce A., Schenectady, N. Y., assignor to General Electric Company. Power system. 1,714,897; May 28.
- Beeman, James L. D. (See Jones, Frank, assignor.)
- Beemer, Frank, Philadelphia, Pa. Ball bearing or carrier or conveyor. 1,703,330; Feb. 26.
- Beemer, Frank, assignor to Nice Ball Bearing Company, Philadelphia, Pa. Ball-bearing caster. 1,736,110; Nov. 19.
- Beer, Fritz. (See Jellinek, P., and Beer.)
- Beers, Burton B. (See Labadie, H. H., and Beers.)
- Beers, George L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio receiving system. 1,700,607; Jan. 29.
- Beers, George L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Superheterodyne radio signaling system. 1,703,078; Feb. 19.
- Beers, George L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Superheterodyne radio system. 1,703,079; Feb. 19.
- Beers, George L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil mounting. 1,703,080; Feb. 19.
- Beers, George L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio receiving device. 1,730,874; Oct. 8.
- Beers, John R. (See Pink, C. G., and Beers.)
- Beers, Royce L., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Valve mechanism for stoker ram and the like. 1,714,123; May 21.
- Beery, Joseph C., Kansas City, Mo. Muffler construction. 1,709,426; Apr. 16.
- Beese, Bertram B., Wareham, Mass. Automatic syringe. 1,736,573; Nov. 19.
- Beeson, John A. (See Beeson, Loring W. and J. A.)
- Beeson, Lawrence A., Webb City, Mo. Folder attachment for sewing machines. 1,714,342; May 21.
- Beeson, Loring W. and J. A., Virginia Highlands, Va. Camera. 1,730,346; Oct. 8.
- Beeson, Malcolm A., Stillwater, Okla. Grave marker. Des. 78,003; Mar. 19.
- Beeson, Malcolm A., Stillwater, Okla. Grave marker. Des. 78,501; May 14.
- Beeth, Channing C., Duluth, Minn. Treating hemp waste. 1,710,914; Apr. 30.
- Beeth, Clarence D., Jr. (See Parker, B. H., and Beeth.)
- Beetham, Maurice F., and R. H. Moore, assignors to Whiting Corporation, Harvey, Ill. Door closure for rotatable receptacles. Re17,490; Nov. 19.
- Beetz, Wilhelm, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Meter damping magnet. 1,734,193; Nov. 5.
- Beghetti, Peter, San Francisco, Calif. Building jack. 1,698,687; Jan. 8.
- Beghetti, Peter, San Francisco, Calif. Wire pulling and twisting tool. 1,698,688; Jan. 8.
- Beghetti, Peter, San Francisco, Calif. Wire-twisting device. 1,698,689; Jan. 8.
- Beghin, Henri, and P. Monfraix, Paris, France. Gyroscopic compass. 1,722,888; July 30.
- Beglich, Robert, and G. Jakopek, Chicago, Ill. Shaft and elevator construction for handling material. 1,713,365; May 14.
- Bégin, Lucien, Paris, France, assignor of one-half to W. B. Weaver, Birmingham, Ala., and H. F. Wilhelm, New York, N. Y. Radio frequency communication system. 1,700,580; Jan. 29.
- Begtrup, Edward F., Jersey City, N. J. Aluminothermic welding of rails and the like. 1,741,399; Dec. 31.
- Begus, Martin. (See Fanders, Marten, assignor.)
- Behen, John J., Soledad, Calif. Combination weather strip. 1,736,693; Nov. 19.
- Behimer, Otto, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,709,302; Apr. 16.
- Behimer, Otto, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Device for cooling packing. 1,716,162; June 4.
- Behle, Joseph. (See Woodford, B. C., and Behle.)
- Behle, Joseph, assignor to The Murray Company, Dallas, Tex. Rib rail for cotton gins. 1,697,676; Jan. 1.
- Behle, Joseph, assignor to The Murray Company, Dallas, Tex. Lambrequin for cotton gins. 1,714,939; May 28.
- Behle, Joseph, assignor to The Murray Company, Dallas, Tex. Cotton gin. 1,719,285; July 2.
- Behle, Joseph, assignor to The Murray Company, Dallas, Tex. Cotton-handling drum. 1,727,925; Sept. 10.
- Behlmer, William J., Batesville, Ind. Window construction. 1,726,798; Sept. 3.
- Behn, Karl, Alfeld-Leine, Germany. Musical toy. 1,739,569; Dec. 17.
- Behner, Harold, La Grange, assignor, by mesne assignments, to Steel and Tube, Inc., Cleveland, Ohio. Wiper mechanism. 1,714,586; May 28.
- Behning, Robert V., Los Angeles, Calif. Novelty. 1,729,472; Sept. 24.
- Behnke, Cord H., Maspeth, N. Y., assignor, by mesne assignments, to The Kingsley-Miller Company, Chicago, Ill. Latching means. 1,699,272; Jan. 15.
- Behnke, Cord H., Flushing, assignor to The Motometer Company, Inc., Long Island City, N. Y. Retaining device for caps. 1,724,550; Aug. 13.
- Behnke, Curtis W. (See Marshall, W., and Behnke.)
- Behr, Hans C., Scarsdale, N. Y. Apparatus for separating liquids and solids. 1,727,855; Sept. 10.
- Behr, Siegfried, New York, N. Y. Card holder or similar article. Des. 79,453; Sept. 24.
- Behrens, Henry A., assignor of one-third to C. Nixon and one-third to E. E. Miller, East St. Louis, Ill. Metallic alloy. 1,720,756; July 16.
- Behrens, Herbert C. (See Koca, J. F., and Behrens.)
- Behringer, Grover F., assignor to L. W. Watson, Defiance, Ohio. Stand and switch for electric heating devices. 1,723,965; Aug. 6.
- Behringer, Ralph F., Dayton, Ohio. Protective shield for hot-air registers. 1,703,567; Feb. 26.
- Behrman, Abraham S., Tube, Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Making base-exchange materials. 1,736,281; Nov. 19.
- Behrman, Marcus B., New York, N. Y. Collapsible tube and other containers. 1,710,140; Apr. 23.
- Behrman, Marcus B., assignor to The Lox Seal Corporation, Brooklyn, N. Y. Corn razor. 1,698,045; Jan. 8.
- Behrman, Marcus B., New York, N. Y., assignor to The Lox Seal Corporation. Pile-wire cutter. 1,698,046; Jan. 8.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Blade and holder therefor. 1,725,047; Aug. 20.
- Behrman, Marcus B., assignor to American Safety Razor Corporation, Brooklyn, N. Y. Making narrow-gauge razor blades. 1,734,554; Nov. 5.
- Behrman, Marcus B., Brooklyn, and R. T. Pollock, New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Method and blank for making safety-razor blades. 1,738,032; Dec. 3.
- Behrman, Marcus B., assignor to American Safety Razor Corporation, Brooklyn, N. Y. Razor and blade therefor. 1,739,280; Dec. 10.
- Behr-Manning Corporation. (See Crupi, Frank J., assignor.)
- Behr-Manning Corporation. (See Schacht, Elmer C., assignor.)
- Behr-Manning Corporation. (See Stever, William, assignor.)
- Beidelstein, Frank, Milwaukee, Wis. Game board. Des. 78,920; July 9.
- Beidler, Donald C., trustee. (See Beidler, D. C., and Viken, assignors.)
- Beidler, Donald C., and A. J. Viken, Chicago, Ill., assignor to D. C. Beidler, trustee, and his successors in trust. Hood for camera finders and the like. 1,737,038; Nov. 26.
- Beidler, Ford E., New York, assignor of one-half to G. Williams, Patchogue, N. Y. Loud speaker. 1,702,399; Feb. 19.
- Beidler, George C., Rochester, N. Y. Film-developing apparatus. 1,714,841; May 28.
- Beidler, Harold F., Sierra Madre, Calif. Traffic signal. 1,728,467; Sept. 17.
- Beijl, Karl H., Washington, D. C. Determining altitude. 1,703,705; Feb. 26.



- Bell, Clarence A., assignor to Curtis Companies, Incorporated, Clinton, Iowa. Ironing board and locking device therefor. 1,712,867; May 14.  
 Beiling, Winna P., Oakland, Calif. Smoker's ash receptacle. 1,738,557; Dec. 10.  
 Beindorf, Kurt, assignor to the firm Günther Wagner, Hanover, Germany. Paint box. 1,699,388; Jan. 15.  
 Beinroth, Hugo, Hamburg, Germany, assignor to Heyden Chemical Corporation, New York, N. Y. Applying signs to glass. 1,739,819; Dec. 17.  
 Beisel, Rex B., East Hempstead, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Metal truss. 1,705,708; Mar. 19.  
 Beisel, Rex B., East Hempstead, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Radiator shutter. 1,714,842; May 28.  
 Beisinger, Daniel, assignor to R. Hoe & Co., Inc., New York, N. Y. Saw. 1,736,571; Nov. 19.  
 Beisler, Walter H. (See Williamson, B. F., and Beisler.)  
 Beissbarth, Kurt E., New York, N. Y. Shaving brush. 1,731,288; Oct. 15.  
 Beissel, P. G., executor. (See Townner, Heber F.)  
 Beistle, Martin L., Shippensburg, Pa. Display holder. 1,719,962; July 9.  
 Bek, Ernst G. (See Schumpelt, Karl, assignor.)  
 Bek, Ernst G. (See Thoma, Eugen, assignor.)  
 Bek, Ernst G., and E. Thoma, Pforzheim, Germany, said Thoma assignor to said Bek. Finishing metal articles and the product thereof. 1,712,244; May 7.  
 Bekius, Nicholas. (See Irwin, R. W., and Bekius.)  
 Belair, Albert, Montreal, Quebec, Canada. Hat and coat hook. 1,712,194; May 7.  
 Belanger, Simon, assignor of two-fifths to E. La Page, International Falls, Minn. Checker board. 1,700,016; Jan. 22.  
 Belanger, Wilfred N., Lawrence, Mass. Driving mechanism. 1,726,879; Sept. 3.  
 Belati, Umberto, Turin, Italy. Gear members. 1,701,222; Feb. 5.  
 Belcher, Donald M., Winchester, assignor to Coffin Valve Company, Neponset, Mass. Valve-operating device. 1,723,399; Aug. 6.  
 Belden, Albert G., assignor to Norton Company, Worcester, Mass. Fluid-circulating system for grinding machines. 1,734,002; Oct. 29.  
 Belden, Albert G., and J. R. Whittles, assignors to Norton Company, Worcester, Mass. Feed mechanism for grinding machines. 1,733,049; Oct. 22.  
 Belden, Albert G., H. W. Dunbar, and C. G. Flygare, assignors to Norton Company, Worcester, Mass. Swing-frame grinder. 1,734,003; Oct. 29.  
 Belden, Edgar T. (See Nahikian, K. M., Foster, and Belden.)  
 Belden, Joseph C., Lake Forest, assignor to Belden Manufacturing Company, Chicago, Ill. Electric connector. 1,731,039; Oct. 8.  
 Belden Manufacturing Company. (See Belden, Joseph C., assignor.)  
 Belden Manufacturing Company. (See Nelson, Ernest L., assignor.)  
 Belden Manufacturing Company. (See Parsons, N. B., Woodruff, and Tibbals, assignors.)  
 Belden Manufacturing Company. (See Wermine, Hugo H., assignor.)  
 Belder, George I., Milwaukee, Wis. Shoe-stretching stick. 1,723,849; Aug. 6.  
 Beldin, Kenneth, Glendale, Calif. Illuminated house number. 1,709,202; Apr. 16.  
 Belding Heminway Company. (See Paisner, Frieda B., assignor.)  
 Beler, Adolf, deceased, Pittsburgh, Pa., by Grayson Heat Control, Inc., Lynwood, Calif., assignee. Thermostatic valve. Bel1,754; Dec. 31.  
 Belfield, Andrew M., assignor to W. D., and J. R. Pennington, Chicago, Ill. Clock bank. 1,722,974; July 30.  
 Belfex Corporation, The. (See Brown, Lowell H., assignor.)  
 Belikan, Matthew C., Chicago, Ill. Safety hammer. 1,700,830; Feb. 5.  
 Belin, Edouard, Paris, France. Electromagnetic signal transmission. 1,727,194; Sept. 3.  
 Belin, Edouard, Paris, France. Radiovision and telecinematography. 1,714,154; May 21.  
 Belin, Edouard, Paris, France. Tachytelegraphic machine. 1,718,024; June 18.  
 Beliot Iron Works. (See Aldrich, A., and Berry, assignors.)  
 Belisle, Conrad. (See Molloy, H. L., and Belisle.)  
 Belitz, Arthur F., Milwaukee, Wis. Fluid-brake control mechanism. 1,703,860; Mar. 5.  
 Belke, William E., Chicago, Ill. Electroplating apparatus. 1,738,515; Dec. 10.  
 Belknap, Charles B. (See Kirschbraun, L., and Belknap.)  
 Belknap, Charles B. (Highland Park, Mich. Treating oils. 1,704,277; Mar. 5.  
 Belknap, Frank L. (See Kirschbraun, Lester, assignor.)  
 Belknap, George J., Bridgeport, Conn. Valve-operating mechanism. 1,707,040; Mar. 26.  
 Belknap, Samuel L., Los Angeles, Calif. Coin-controlled safe. 1,722,030; July 23.  
 Bell, Charles E., Bucklin, Kans. Door hanger. 1,728,954; Sept. 24.  
 Bell, Charles H., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Closure device. 1,716,024; June 4.  
 Bell, Charles H., Cleveland Heights, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Closure. 1,718,940; July 2.  
 Bell, Charles H., Cleveland Heights, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Closure. 1,720,358; July 9.  
 Bell, Charles W., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,736,388; Nov. 19.  
 Bell-Clifford, Sidney, Winnipeg, Manitoba, Canada. Strap support for chair, davenport, and such like arms. 1,725,508; Aug. 20.  
 Bell, Edward W. (See Blankenship, E. P., and Bell.)  
 Bell Equipment Company Limited. (See Dobson, Percy R., assignor.)  
 Bell, Frank A., and J. F. Love, Englewood, Colo. Junior toilet seat. 1,704,878; Mar. 12.  
 Bell, Frank B., and J. C. Crocker, assignors to Edgewater Steel Company, Pittsburgh, Pa. Automatic chuck for ingot-slicing lathes. 1,711,769; May 7.  
 Bell, Fred C., and S. Skelly, Alameda, Calif. Lawn rake. 1,699,947; Jan. 22.  
 Bell, George A., assignor to Indiana Fibre Products Company, Marion, Ind. Blank paper box or carton. 1,724,636; Aug. 13.  
 Bell, George A., and J. H. Carson, assignors to Indiana Fibre Products Company, Marion, Ind. Fiber-dish machine. 1,731,606; Oct. 15.  
 Bell, George W., Detroit, Mich. Antivibration device for automobiles. 1,717,000; June 11.  
 Bell, Hallie H., assignor to Bell-Man Chemical Co. Inc., New York, N. Y. Toy. 1,738,347; Dec. 3.  
 Bell, Harold S. (See Fulton, Luther D., assignor.)  
 Bell, Harrie A., Bala-Cynwyd, Pa. Dispensing tube. 1,729,979; Oct. 1.  
 Bell, Harry W. (See Lyons, C. T., and Bell.)  
 Bell, Harvey D., Forest Hills, N. Y. Mechanism and method for cutting, associating, and folding sheets. 1,720,529; July 9.  
 Bell, Harvey W., Yonkers, N. Y., assignor to The Beloyt Corporation, Dover, Del. Spring shackle. 1,697,452; Jan. 1.  
 Bell, Harvey W., Ardsley on Hudson, N. Y., assignor to The Beloyt Corporation, Dover, Del. Flexible coupling. 1,697,453; Jan. 1.  
 Bell, Harvey W., Ardsley-on-the-Hudson, N. Y., assignor to The Beloyt Corporation, Dover, Del. Flexible coupling. 1,701,061; Feb. 5.  
 Bell, Harvey W., Ardsley-on-the-Hudson, N. Y., assignor to The Beloyt Corporation, Dover, Del. Flexible connection for motor vehicles. 1,727,804; Sept. 10.  
 Bell & Howell Company, The. (See Howell, Albert S., assignor.)  
 Bell & Howell Company, The. (See McNabb, Joseph H., assignor.)  
 Bell-Irving, Robert, and P. Sandwell, Powell River, British Columbia, Canada. Load-deflecting device for conveyers. 1,729,671; Oct. 1.  
 Bell, Ivan C., Dallas, Tex. Piston ring. 1,739,537; Dec. 17.  
 Bell, Ivan C., assignor to The Guiberson Corporation, Dallas, Tex. Well swab. 1,700,305; Jan. 29.  
 Bell, James H. (See Tiffany, Tolbert K., assignor.)  
 Bell, James L., and H. Eufewecke, Oakland, Calif. Dishwashing machine. 1,699,042; Jan. 15.  
 Bell, James M., Salt Lake City, Utah. Air-brake tool. 1,729,921; Oct. 1.  
 Bell, James G., Mullins, S. C. Clamping apparatus. 1,728,718; Sept. 17.  
 Bell, John A., assignor of one-half to L. M. McNaughton, Montreal, Quebec, Canada. Humidifying device for internal-combustion engines. 1,739,570; Dec. 17.  
 Bell, John C., Sheffield, England, assignor, by mesne assignments, to Centrifugal Pipe Corporation, Wilmington, Del. Centrifugal casting of hollow bodies of metal. 1,736,424; Nov. 19.  
 Bell, John E. (See McKelvy, F. G., and Bell.)  
 Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Apparatus for burning fuel. 1,708,862; Apr. 9.  
 Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Pulverized-fuel-burning furnace. 1,708,929; Apr. 16.  
 Bell, John E., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Regenerative air heater. 1,710,529; Apr. 23.  
 Bell, John E., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Connecting tubular elements. 1,710,530; Apr. 23.  
 Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Pulverized-fuel-burning apparatus. 1,717,830; June 18.  
 Bell, John E., Brooklyn, N. Y., assignor to Combustion Engineering Corporation. Burning pulverized fuel. 1,729,024; Sept. 24.  
 Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Fractionating vapors from pressure stills and the like. 1,741,275; Dec. 31.



- Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Operation of pressure stills. 1,741,276; Dec. 31.
- Bell, John E., assignor to Foster Wheeler Corporation, New York, N. Y. Steam generator. 1,732,428; Oct. 22.
- Bell, John E., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Soot-blowing provision for fluid-heating apparatus. 1,732,429; Oct. 22.
- Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Cracking hydrocarbons. 1,741,357; Dec. 31.
- Bell, John E., deceased, by L. R. Bell, executrix, Brooklyn, assignor to Sinclair Refining Company, New York, N. Y. Apparatus for condensing hydrocarbon vapors. 1,730,350; Oct. 8.
- Bell, John E., deceased, by L. R. Bell, executrix, Brooklyn, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,741,277; Dec. 31.
- Bell, John E., deceased, by L. R. Bell, Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Superheating steam. 1,732,395; Oct. 22.
- Bell, John E., Brooklyn, and G. P. Jackson, Flushing, N. Y., assignors to Combustion Engineering Corporation. Furnace burning fuel in suspension. 1,723,675; Aug. 6.
- Bell, John W. and T. J., Lake Monroe, Fla. Cleaning and precooling vegetables for shipment. 1,708,253; Apr. 9.
- Bell, Joseph D., San Francisco, Calif. Chair construction. 1,718,847; June 25.
- Bell, Lola R., executrix. (See Bell, John E.)
- Bell, Lola R., executrix. (See McKelvy, F. G., and Bell.)
- Bell-Man Chemical Co., Inc. (See Bell, Hallie H., assignor.)
- Bell, Pearl D., New York, N. Y. Coin-controlled document device. 1,719,497; July 2.
- Bell Punch & Printing Co. Limited, The. (See Black, Horace D., assignor.)
- Bell, Ralph L. (See Moran, Samuel J., assignor.)
- Bell, Richard E., St. Louis, Mo. Tie plate. 1,719,644; July 2.
- Bell, Sidney R. (See Malluk, A. M., and Bell.)
- Bell, Sidney R., Rowayton, Conn. Attachment for windshield vision glasses. 1,720,027; July 9.
- Bell Tavern System. (See Kreuder, Louis P., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Adams, Edgar W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Arnold, Henry B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Barber, Charles C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Beach, William C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Bowne, Langford J., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Bragg, Herbert E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Burton, Everett T., assignor.)
- Bell Telephone Laboratories. (See Broom, E., and Entz, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Cahill, Harold D., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Caverly, Harry C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Chesnut, Roy W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Christopher, Arthur J., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Cioffi, Paul P., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Clark, Edgar H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Clokey, Allison A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Collis, Raymond E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Crawford, Allen I., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Crawford, A. I., and Sample, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Crouch, James L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Cummings, George C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Curtis, Austin M., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Davee, Lawrence W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See De Coutouly, Gustave C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Dehn, Joseph W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Dickleson, Alton C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Dudley, Homer W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Elmen, Gustaf W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Engel, Theodore J., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Flanders, Paul B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Fowler, Clarence B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Fry, Jacob R., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Gilbert, John J., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Gilson, Albert F. F., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Given, Frederick J., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Gooderham, John W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Graham, Frank H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Green, Charles W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Harris, James E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Harrison, Henry C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Heising, Raymond A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Hinrichsen, Edward E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Holland, Newman H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Horton, Joseph W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Hoveland, Henry, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Husta, Philip, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Ives, Herbert E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Ives, H. E., and Horton, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Johnson, Herbert B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Johnson, Lewis H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Jones, Reginald L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Jones, Warren C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Jutson, Robert P., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Keith, Clyde R., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Keller, Arthur C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Kille, Lindley A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Kishpaugh, Arthur W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Knoop, William A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Knox, W. G., and Russell, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Krecek, Joseph A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Lane, Clarence E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Legg, Victor E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Lowry, Homer H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Marison, Warren A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See McKeehan, Louis W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Meissner, Charls R., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Melhuish, Lawrence E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Miller, Victor F., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Murphy, Paul B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Nebel, Charles N., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Norton, Edward L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Oswald, Arthur A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Pease, Reginald M., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Peoples, Robert E., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Peterson, Eugene, assignor.)
- Bell Telephone Laboratories. (See Pfannenstiehl, Harry, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Phelps, Walter A., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Pierce, P. H., and Means, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Pruden, Harold M., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Richard, Charles D., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Ronci, Victor L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Schlenker, Vesper A., assignor.)

- Bell Telephone Laboratories, Incorporated. (See Schwerin, P., and Pfeiffer, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Shangle, Amos H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Siegmund, Humphreys O., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Smythe, E. H., and Lane, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Stacy, L. J., and Krom, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Stearn, F. A., and Clark, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Stokely, Ray L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Stoller, Hugh M., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Stoller, H. M., and Morton, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Taplin, C. V., Allen, and Bertels, assignors.)
- Bell Telephone Laboratories. (See Taylor, Alfred T., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Thuras, Albert L., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Ulrich, H. W., and Prince, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Ulrich, Horace W., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Vroom, E., and Entz, assignors.)
- Bell Telephone Laboratories, Incorporated. (See Waller, Lee R., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Weis, Charles L., jr., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Wentz, Edward C., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Wheeler, Clyde H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See White, John H., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Whittle, Horace, assignor.)
- Bell Telephone Laboratories, Incorporated. (See Wiese, Floyd M., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Wilbur, Ray S., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Williams, Samuel B., assignor.)
- Bell Telephone Laboratories, Incorporated. (See Williford, Oscar H., assignor.)
- Bell, Thomas, Ottago, New Zealand. Paring knife. 1,735,312; Nov. 12.
- Bell, Thomas J. (See Bell, John W., and T. J.)
- Bell, Victor L., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,700,875; Feb. 5.
- Bell, Walter J., Los Angeles, Calif. Rear-vision mirror. 1,699,043; Jan. 15.
- Bell, William D., Minneapolis, Minn. Measuring and dispensing apparatus. 1,722,835; July 30.
- Bell, William D., assignor of one-fourth to E. P. Corbett, Columbus, Ohio. Grease gun. 1,736,644; Nov. 19.
- Bell, William D., assignor of one-fourth to E. P. Corbett, Columbus, Ohio. Grease gun. 1,736,645; Nov. 19.
- Bell, William F., Canton, N. C. Road marker. 1,702,585; Feb. 19.
- Bell, William I., Chelsea, London, England. System of storing motor road vehicles. 1,717,545; June 18.
- Bell, William M., Portsmouth, Ohio. Bung. 1,737,182; Nov. 26.
- Bell, William R., Terre Haute, Ind. Sectional sign or poster board. 1,740,534; Dec. 24.
- Bell, William T., Lincoln County, and F. J. Bretherton, London, England. Mechanically-propelled vehicle. 1,741,091; Dec. 24.
- Bellamy, Harry T., River Forest, and W. H. Groves, Melrose Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Furnace. 1,702,033; Feb. 12.
- Bellamy, John I. (See Richardson, R. G., and Bellamy.)
- Bellamy, John I., Brookfield, assignor to Reserve Holding Company, Chicago, Ill. Ringing-current repeater. 1,699,774; Jan. 22.
- Bellamy, John I., Brookfield, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,712,643; May 14.
- Bellamy, John I., Brookfield, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,713,813; May 21.
- Bellamy, John I., Brookfield, and R. G. Richardson, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,724,174; Aug. 13.
- Bellamy, John I., Brookfield, and R. G. Richardson, Chicago, assignors to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,732,184; Oct. 15.
- Bellamy, John I., Brookfield, and R. F. Stehlik, assignors to Reserve Holding Company, Chicago, Ill. Selector switch. 1,729,980; Oct. 1.
- Bellanca, Guiseppe M., Passaic, N. J. Exhaust manifold. 1,713,614; May 21.
- Belle Mead Development Corporation. (See Shepherd, J. E., and O'Brien, assignors.)
- Bellem, Louis H. L., Asnieres, France. Fuel-supplying device. 1,735,032; Nov. 12.
- Beller, Melchior, and C. F. Bauer, assignors to The Dual Speedometer Company, Cleveland, Ohio. Speed-indicating device. 1,715,635; June 4.
- Beller, Melchior, and C. F. Bauer, assignors to The Dual Speedometer Company, Cleveland, Ohio. Speed-indicating mechanism. 1,734,070; Nov. 5.
- Belles, Joseph C., Lima, Ohio. Sanitary insert for wash-basins. 1,703,053; Feb. 19.
- Belleville, Harry C., Oakland, Calif. Aircraft landing. 1,731,091; Oct. 8.
- Bellhouse, Robert L., assignor to The Fine Cotton Spinners & Doublers Association Limited, Manchester, England. Combing machine. 1,711,441; Apr. 30.
- Bellini, Daniel J., Bronx, New York, N. Y. Collapsible container. 1,736,874; Nov. 26.
- Bellini, Ettore, Paris, France. Balancing radiogoniometer. 1,698,837; Jan. 15.
- Bellini, Ettore, Paris, France. Radiogoniometer. 1,723,461; Aug. 6.
- Bellini, Ettore, Paris, France. Radio signaling system. 1,739,941; Dec. 17.
- Bellis, Arthur E., Branford, Conn. Salt bath. 1,724,551; Aug. 13.
- Bellis, Arthur E., Branford, Conn. Salt bath. 1,724,552; Aug. 13.
- Bellis, Joseph, St. Paul, Minn., assignor to Shaw-Walker Company, Muskegon, Mich. Filing case. 1,727,926; Sept. 10.
- Bello Manufacturing Company, The. (See Harms, A. E., and Jennow, assignors.)
- Belloq, Toribio, Buenos Aires, Argentina. Apparatus for the extraction of liquids. 1,730,336; Oct. 1.
- Belloq, Toribio, Buenos Aires, Argentina. Pump. 1,730,337; Oct. 1.
- Bellows, Warren E., East Orange, N. J. Detachable connection for wrench sockets and the like. 1,741,969; Dec. 31.
- Belluche, Elmer W. (See Greene, F. J., and Felluche.)
- Belluche, Elmer W., Racine, Wis. Collating machine. 1,700,427; Jan. 29.
- Belluche, Elmer W., assignor to The Christensen Machine Company, Racine, Wis. Stitching machine. 1,733,328; Oct. 29.
- Belnap, Lewie L., Oakland, Calif. Portable saw standard. 1,735,990; Nov. 19.
- Beloblavsek, John, Chicago, Ill. Loose-leaf binder. 1,741,909; Dec. 31.
- Beloit Iron Works. (See Aldrich, Alonzo, assignor.)
- Beloit Iron Works. (See Aldrich, A., and Berry, assignors.)
- Beloit Iron Works. (See Berry, Earl E., assignor.)
- Beloit Iron Works. (See Standley, A. H., and Kilberry, assignors.)
- Beloyt Corporation, The. (See Bell, Harvey W., assignor.)
- Belpedio, Jobby, Bridgeport, Conn. Cushion heel. 1,711,302; Apr. 30.
- Belshaw, Walter, Seattle, Wash. Doughnut machine. 1,738,033; Dec. 3.
- Belt, Fred R., Chicago, Ill. Ash receiver. 1,730,753; Oct. 8.
- Belt, Thomas A. E., Schenectady, N. Y., assignor to General Electric Company. Safety device for electrical apparatus. 1,724,870; Aug. 13.
- Belt, Thomas A. E., Schenectady, N. Y., assignor to General Electric Company. Condenser. 1,731,884; Oct. 15.
- Beltz, Howard H., Washington, D. C. Anti-thumb-sucking appliance. 1,733,933; Oct. 29.
- Belunes, Joseph G., Brooklyn, N. Y. Necktie-fastening device. 1,704,422; Mar. 5.
- Belyavin, Paul, Newcastle-on-Tyne, England. Automatic valve. 1,720,993; July 16.
- Belz, Edward P., Iron River, Mich. Harness chain trace. 1,702,959; Feb. 19.
- Beman, Lynn W., Chicago, Ill. Supply holder for kitchen tables. 1,730,345; Oct. 8.
- Beman, Spencer S., Winnetka, Ill. Window structure. 1,725,559; Aug. 20.
- Bemelmans, Lampert, Miami, Fla. Nutcracker. Des. 77,734; Feb. 19.
- Bemis, Albert F., Newton, assignor to Bemis Industries Inc., Boston, Mass. Building unit. 1,709,893; Apr. 23.
- Bemis, Albert F., Newton, assignor to Bemis Industries Inc., Boston, Mass. Building unit. 1,715,587; June 4.
- Bemis, Albert F., Newton, assignor to Bemis Industries Inc., Boston, Mass. Building construction and resulting product. 1,717,546; June 18.
- Bemis, Albert F., Newton, assignor to Bemis Industries Inc., Boston, Mass. Building construction. 1,741,219; Dec. 31.
- Bemis Bro. Bag Co. (See Carpenter, A. C., Pierce, Brady, and Howes, assignors.)
- Bemis Bro. Bag Co. (See Pierce, Robert E., assignor.)
- Bemis Industries, Incorporated. (See Batcheller, Clements, assignor.)
- Bemis Industries, Inc. (See Bemis, Albert F., assignor.)
- Bemis Industries Inc. (See Davis, Ira G., assignor.)
- Bemish, Charles H., and W. J., Rochester, N. Y. Golf harness. 1,699,219; Jan. 15.
- Bemish, Walter J. (See Bemish, Charles H., and W. J.)
- Bemont, Deloss C., assignor of one-third to E. Bemont, Meriden, Conn. Bicycle, velocipede, or the like. 1,739,628; Dec. 17.
- Bemont, Edward. (See Bemont, Deloss C., assignor.)



- Bénard, Henri L. M. J., assignor to Anciens Etablissements Barbier, Bénard et Turenne, Paris, France. Arc lamp. 1,715,272; May 28.
- Benbow, James D., and J. B. Green, assignors to Western Wheeled Scraper Company, Aurora, Ill. Dump wagon. 1,706,099; Mar. 19.
- Bence, Louis J., Cleveland, Ohio. Medicine cabinet. 1,719,386; July 2.
- Bencker, Franz, Cologne-Mühlheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of alkali of high concentration. 1,704,909; Mar. 12.
- Bence, Joseph, Yorkville, Ohio. Razor sharpener. 1,723,124; Aug. 6.
- Benda, Louis, Mainkur, near Frankfort-on-the-Main, and W. Schmidt, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Alkoxyacridines. 1,715,332; May 28.
- Benda, Louis, Mainkur, near Frankfort-on-the-Main, and Otto Sievers, Hohe Tanne, near Hanau-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacturing 4-hydroxy-3-acetaminoaryl-1-arsonic acid. 1,739,820; Dec. 17.
- Bender, Charles, deceased; G. Bender, administratrix, New York, and M. Beck, Bronx, N. Y. Shade roller. 1,732,430; Oct. 22.
- Bender, Edwin C. (See Allen, F. G. L., and Bender.)
- Bender, Ella. (See Bender, Harry, assignor.)
- Bender, Gussie, administratrix. (See Bender, C., and Beck.)
- Bender, Harry, assignor to E. Bender, Omaha, Nebr. Cap. Des. 77,666; Feb. 12.
- Bender Hoist Manufacturing Company. (See Schmidt, Friedrich J., assignor.)
- Bender, Howard L., Bloomfield, N. J., assignor to Bake-lite Corporation, New York, N. Y. Phenol-resin composition. 1,717,600; June 18.
- Bender, Joseph C., Union City, N. J., assignor, by mesne assignments, to The Rumidior Corporation. Cigar and tobacco flavoring and moistening substance. 1,699,090; Jan. 15.
- Bender, Lillian M., San Francisco, Calif. Combination powder-box cover and powder-puff retainer. 1,716,291; June 4.
- Bender, Martin, Glen Ridge, assignor to Jacobsen Manufacturing Co., Newark, N. J. Impeller for blowers. 1,700,017; Jan. 22.
- Bender, William A., assignor to Certo Corporation, Rochester, N. Y. Fruit product. 1,698,985; Jan. 15.
- Bendheim, Edward. (See Rosenstein, F., and Bendheim.)
- Bendix Aviation Corporation. (See Perrot, Henri, assignor.)
- Bendix Brake Company. (See Andres, William J., assignor.)
- Bendix Brake Company. (See Bendix, Vincent, assignor.)
- Bendix Brake Company. (See Burton, Ralph J., assignor.)
- Bendix Brake Company. (See Cantley, John R., assignor.)
- Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
- Bendix Brake Company. (See Hay, John D., assignor.)
- Bendix Brake Company. (See La Brie, Ludger E., assignor.)
- Bendix Brake Company. (See Leonard, Howard M., assignor.)
- Bendix Brake Company. (See Lyman, Kenneth E., assignor.)
- Bendix Brake Company. (See Lyman, K. E., and McConkey, assignors.)
- Bendix Brake Company. (See McConkey, Montgomery W., assignor.)
- Bendix Brake Company. (See Michael, Gus F., assignor.)
- Bendix Brake Company. (See Norton, Raymond J., assignor.)
- Bendix Brake Company. (See Price, Jacob L., assignor.)
- Bendix Brake Company. (See Renaux, Eugene P., assignor.)
- Bendix Brake Company. (See Sanford, Roy S., assignor.)
- Bendix Brake Company. (See Thomas, George J., assignor.)
- Bendix Brake Company. (See Whitworth, Stanley, assignor.)
- Bendix Corporation, The. (See Dodge, Adie, Y., assignor.)
- Bendix Corporation, The. (See McConkey, Montgomery W., assignor.)
- Bendix Corporation. (See Perrot, Henri, assignor.)
- Bendix, Vincent, Chicago, Ill. Engine starter. 1,716,413; June 11.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,705,850; Mar. 19.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Servo brake. 1,710,338; Apr. 23.
- Bendix, Vincent, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind. Brake-operating connection. 1,713,687; May 21.
- Bendix, Vincent, Chicago, Ill., assignor to Bendix Brake Company, South Bend, Ind. Brake drum. 1,720,815; July 16.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,727,927; Sept. 10.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Making brake shoes. 1,728,172; Sept. 17.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake-shaft support. 1,728,654; Sept. 17.
- Bendix, Vincent, assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,732,349; Oct. 22.
- Bendixen, Ruth C., New York, N. Y. Chair or similar article. Des. 79,545; Oct. 8.
- Bendixen, Ruth C., New York, N. Y. Portable folding chair. 1,708,045; Apr. 9.
- Bendixen, Ruth C., and M. E. Morrow, New York, N. Y. Chair. Des. 79,062; July 30.
- Bendy, Wilfred R., Chicago, Ill. Feed mechanism. 1,709,109; Apr. 16.
- Bendy, Wilfred R., Chicago, Ill. Cooling chamber. 1,730,839; Oct. 8.
- Bendy, Wilfred R., Chicago, Ill. Rotary-kiln feed-control system. 1,731,809; Oct. 15.
- Benedict, Austin A., assignor of thirty-five per cent to D. P. Rajek, Merrill, Wis. Combination vise and gripping tool. 1,733,773; Oct. 29.
- Benedict, Beatrice A., et al., executrices. (See Armstrong, Edwin J.)
- Benedict, Charles H. (See Anthony, W. C., and Benedict.)
- Benedict, Edward L., assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Wire-fastening device. 1,701,095; Feb. 5.
- Benedict, Helen D., Bridgeport, Conn. Oven utensil. 1,739,347; Dec. 10.
- Benedict, T. N., Mfg. Co. (See Saunders, Albert F., assignor.)
- Benenato, Stella, Phoenix, Ariz. Mailable matter of envelopes. 1,710,603; Apr. 23.
- Benfield, Albert. (See Schoneberger, Adolph, assignor.)
- Benford, Frank A., Schenectady, N. Y., assignor to General Electric Company. Lens. 1,716,361; June 11.
- Benford, Frank A., Schenectady, N. Y., assignor to General Electric Company. Light-projection system. 1,716,756; June 11.
- Benford, Frank A., Schenectady, N. Y., assignor to General Electric Company. Light projector. 1,726,379; Aug. 27.
- Benford, George L. (See Hughes, Hugh T., assignor.)
- Benford, George L., Spencer, Ohio. Auxiliary tensioning element for automobile springs. 1,719,387; July 2.
- Benge, Frank H., Norristown, and R. R. Titus, Villanova, Pa., assignors, by mesne assignments, to Continental Diamond Fibre Company, Newark, Del. Molding synthetic resins. 1,735,668; Nov. 12.
- Benge, Joseph B., assignor to D. B. Scully Syrup Company, Chicago, Ill. Syrup can. Des. 78,139; Apr. 2.
- Bengel, Margaret, Washington, D. C. Combination lip-stick holder and dauber. 1,703,257; Feb. 26.
- Bengston, C. G. (See Eos, Eric A., assignor.)
- Bengston, John, Chicago, Ill. Bed mounting. 1,727,025; Sept. 3.
- Benham, Edgar M., Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky. Time lock. 1,722,070; July 23.
- Benham, Edgar M., Norwood, Ohio, assignor to The Mosler Lock Company, Covington, Ky. Time lock. 1,722,071; July 23.
- Benham, Leon L., Irondequoit, assignor to Richardson Corporation, Rochester, N. Y. Beverage dispenser. 1,708,212; Apr. 9.
- Benioff, Hugo, Pasadena, Calif., assignor to Carnegie Institution of Washington, Washington, D. C. Phase modifier. 1,719,556; July 2.
- Benit, Henri, Paris, France. Automatic circuit-breaking system. 1,714,415; May 21.
- Bénit, Henri, Paris, France. Lubricating device for vertical shafts. 1,715,978; June 4.
- Benjamin, Alexander, Folkestone, England. Supplying air to internal-combustion engines. 1,706,391; Mar. 26.
- Benjamin, Bert R. (See Dennis, S. K., and Benjamin.)
- Benjamin, Bert R. (See Johnston, E. A., Benjamin, and Baker.)
- Benjamin, Bert R. (See Johnston, E. A., Benjamin, and Merwin.)
- Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Cotton separator. 1,709,553; Apr. 16.
- Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tractor cultivator. 1,718,773; June 25.
- Benjamin, Bert R., Oak Park, and C. R. Raney, Riverside, assignors to International Harvester Company, Chicago, Ill. Planter draft device. 1,701,745; Feb. 12.
- Benjamin, E. V., Company, The. (See Lee, Ralph E., assignor.)
- Benjamin Electric Manufacturing Company (See Benjamin, Reuben B., assignor.)
- Benjamin Electric Manufacturing Company. (See Phillips, Paul D., assignor.)
- Benjamin Electric Manufacturing Company. (See Warner, Chester E., assignor.)
- Benjamin Electric Manufacturing Company. (See Warner, C. E., and Nilson, assignors.)
- Benjamin Electric Mfg. Co. (See Wilson, Wesley, assignor.)
- Benjamin, George M., Chicago, Ill., assignor to Union Drawn Steel Company. Guide rail. 1,720,202; July 9.
- Benjamin, Greta, New York, N. Y. Metallic face mask and making same. 1,715,027; May 28.
- Benjamin, Harry S., Detroit, Mich. Height-measuring apparatus. 1,736,185; Nov. 19.
- Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing machine. 1,710,688; Apr. 30.



- Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-cutting mechanism. 1,729,241; Sept. 24.
- Benjamin & Johnes. (See Roth, Isidor, assignor.)
- Benjamin, Maxwell W. (See Flint, Floyd F., assignor.)
- Benjamin, Merrill G., Lakewood, Ohio. Power instrument and meter. 1,736,304; Nov. 19.
- Benjamin, Merrill G., Lakewood, Ohio, assignor, by mesne assignments, to Bailey Meter Company. Combustion control. 1,729,700; Oct. 1.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Panel board and switch construction. 1,700,757; Feb. 5.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch construction for automobiles. 1,705,515; Mar. 19.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Condenser. 1,709,601; Apr. 16.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Shock-absorbing socket. 1,718,451; June 25.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Switch construction. 1,725,560; Aug. 20.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical contact-making device and assembling the same. 1,726,335; Aug. 27.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Shock-absorbing socket for vacuum tubes. 1,730,344; Oct. 8.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-block housing. 1,735,072; Nov. 12.
- Benjamin, Schuyler. (See Aaron, A., and Benjamin.)
- Benjamin, Schuyler E., and W. P. Murray, Gloversville assignors to Louis Meyers & Son, Inc., New York, N. Y. Glove and making the same. 1,740,218; Dec. 17.
- Benn, Hans H., Farnham Common, England. Friction clutch. 1,718,105; June 18.
- Benner, Harry P. (See Egloff, G., and Benner.)
- Benner, Harry P. (See Morrell, J. C., and Benner.)
- Benner, Howard E., assignor to Spaulding Fibre Company, Inc., North Rochester, N. H. Counter-molding machine. 1,704,587; Mar. 5.
- Benner, Raymond C., Bayside, N. Y., assignor to National Carbon Company, Inc. Electrolytic apparatus. 1,706,951; Mar. 26.
- Benner, Raymond C., Bayside, and L. C. Werking, New York, N. Y., assignors, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Preservice protection of storage-battery electrodes. 1,737,039; Nov. 26.
- Benner, Raymond C., Niagara Falls, and A. P. Thompson, Jackson Heights, assignors to General Chemical Company, New York, N. Y. Recovering sulphur from carbonyl sulphide. 1,710,141; Apr. 23.
- Benner, Raymond C., Niagara Falls, and A. P. Thompson, Jackson Heights, assignors to General Chemical Company, New York, N. Y. Producing elemental sulphur. 1,741,551; Dec. 31.
- Benner, Winthrop W., Cuyahoga Falls, Ohio, assignor to Firestone-Apsley Rubber Company, Hudson, Mass. Apparatus for building rubber footwear. 1,730,313; Oct. 1.
- Bennet, George A., Montreal, Quebec, Canada. Holder for anchor bolts and the like. 1,726,286; Aug. 27.
- Bennet, James E., New York, N. Y., assignor to The Babcock Printing Press Manufacturing Company. Feed table for presses. 1,727,856; Sept. 10.
- Bennet, Jules A. R., Lund, Sweden. Manufacture of piston rings. 1,732,630; Oct. 22.
- Bennet, Jules A. R., Landskrona, Sweden. Lathe for turning piston rings. 1,732,631; Oct. 22.
- Bennett, Arthur F., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone apparatus. 1,711,258; Apr. 30.
- Bennett, Arthur F., Richmond Hill, N. Y., and C. R. Moore, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Intelligence-signaling apparatus. 1,719,645; July 2.
- Bennett, Arthur J., Cambridge, Ohio. Cocktail shaker. 1,703,334; Feb. 26.
- Bennett, Ashley C., Minneapolis, Minn. Air cleaner. 1,734,030; Nov. 5.
- Bennett, Azzel C., assignor to Gifford-Wood Company, Hudson, N. Y. Conveyor bucket and closing the same. 1,741,123; Dec. 24.
- Bennett Box Co. (See Bennett, W. C., and Miller, assignors.)
- Bennett Box Co. (See Boughton, Willis A., assignor.)
- Bennett, Charles A., Tallulah, La., assignor to the Government and the People of the United States of America. Process and apparatus for drying seed cotton. 1,707,929; Apr. 2.
- Bennett, Charles A., Tallulah, La., assignor to the Government and the People of the United States of America. Seed-cotton-drying apparatus. 1,707,930; Apr. 2.
- Bennett, Charles E., Decatur, assignor to Balt Manufacturing Company, Atlanta, Ga. Superpotential discharge installation. 1,724,820; Aug. 13.
- Bennett, Clarence D., Mertens, Tex. Tool joint. 1,735,991; Nov. 19.
- Bennett, Claude W., Whittier, Calif. Tool holder. Re17,259; Apr. 9.
- Bennett, Earl G., Chichester, N. Y. Supporting structure for typewriters, adding machines, bookkeeping machines, and the like. 1,700,784; Feb. 5.
- Bennett, Edward O., Los Angeles, Calif. Internal-combustion engine. 1,709,652; Apr. 16.
- Bennett, Ernest O., Bluefield, W. Va. Movable ditch light. 1,729,473; Sept. 24.
- Bennett, Frank M. (See Pownall, H. D., and Bennett.)
- Bennett, Frank M., Canton, Ohio. Fluid compressor. 1,724,553; Aug. 13.
- Bennett, Frank S., Schenectady, and L. R. Biggs, Scotia, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Combustion control. 1,729,701; Oct. 1.
- Bennett, Fred A., Chico, Calif. Selective signaling system. 1,712,725; May 14.
- Bennett, George L., Cleveland Heights, Ohio. Ice-vending machine. 1,706,475; Mar. 26.
- Bennett, George L., Cleveland Heights, Ohio. Finishing sheet-metal tiling. 1,739,056; Dec. 10.
- Bennett, George L., Cleveland, Ohio. Metallic wall tiling. 1,724,901; Aug. 20.
- Bennett, George T., Graham, Mo. Cupboard-door latch. 1,722,621; July 30.
- Bennett, Guy V., Portland, Oreg. Wire twister. 1,717,085; June 11.
- Bennett, Horace M., and S. J. Boman, Margaret, Tex. Sharpening device for hair clippers. 1,742,054; Dec. 31.
- Bennett, Horatio S., Cleveland, Ohio, assignor, by mesne assignments, to The Columbia Burner Company. Furnace. Re17,454; Oct. 8.
- Bennett, Incorporated. (See Clapp, Albert L., assignor.)
- Bennett, Irving T. (See Murray, T. E., Jr., and Bennett.)
- Bennett, James C., Detroit, Mich. Blower for boilers. 1,706,868; Mar. 26.
- Bennett, Jerry, Scottsville, assignor to General Railway Signal Company, Rochester, N. Y. Combined train-order and traffic signal. 1,730,314; Oct. 8.
- Bennett, John L., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Extension toaster or broiler. 1,706,516; Mar. 26.
- Bennett, John O. (See O'Connell, James R., assignor.)
- Bennett, Lewis C., Chicago, Ill. Building construction. 1,699,651; Jan. 22.
- Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Magnetics shield. 1,709,054; Apr. 16.
- Bennett, Norman B., et al. (See Savage, Basil H., assignor.)
- Bennett, Orma J. (See Bull, Archer A., assignor.)
- Bennett Pumps Corporation. (See Bennett, Thomas B., assignor.)
- Bennett Pumps Corp. (See Prescott, Le Roy A., assignor.)
- Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Fuse container. Des. 77,387; Jan. 8.
- Bennett, Ray A., Denver, Colo. Ore-roasting retort furnace. 1,723,006; Aug. 6.
- Bennett, Raymond F., Portland, Me. Method of and apparatus for forming trenches. 1,698,529; Jan. 8.
- Bennett, Roger C., assignor of one-half to F. T. Patterson, Seminole, Okla. Compressed-air well pump. 1,730,051; Oct. 1.
- Bennett, Thomas, assignor to Kaustine Company, Perry, N. Y. Septic toilet tank. 1,719,419; July 2.
- Bennett, Thomas, and A. D. Sloane, Perry, and J. W. Fortenbaugh, Buffalo, assignors to Kaustine Company, Inc., Perry, N. Y. Septic toilet tank. 1,719,418; July 2.
- Bennett, Thomas B., Muskegon, Mich. Oil-pump nozzle. 1,718,888; June 25.
- Bennett, Thomas B., assignor to Bennett Pumps Corporation, Muskegon, Mich. Oil-pump drain pipe. 1,709,602; Apr. 16.
- Bennett, Wallace C., Hingham, and A. B. Miller, Cambridge, assignors to Bennett Box Co., Boston, Mass. Shoe and making shoes. 1,722,967; July 30.
- Bennett, William, Tempe, near Sydney, assignor of two-thirds to G. Rockley and A. Challen, Bexley, near Sydney, New South Wales, Australia. Horn and/or tone box for talking machines, wireless loud speakers, and the like. 1,700,193; Jan. 29.
- Bennett, William F., assignor to Goodwin Brothers Automobile Company, Inc., Newcastle, Ind. Antirattler and fastener for vehicle doors. 1,734,555; Nov. 5.
- Benniger, John, Philadelphia, Pa. Oil burner. 1,726,640; Sept. 3.
- Benning, Cobb. (See Blackwell, Sanford J., assignor.)
- Bennington Wax Paper Company. (See Cubberley, Warner I., assignor.)
- Bennion, Leslie H. (See Clarke, T. B., and Bennion.)
- Bennion, Leslie H., and R. B. Woodcock, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,704,820; Mar. 12.
- Bennis, Alfred W., Bolton, England. Furnace. 1,707,893; Apr. 2.
- Bennis, Alfred W., Little Hulton, Bolton, England. Chain grate for furnaces. 1,713,322; May 14.
- Bennis, Alfred W., Little Hulton, near Bolton, England. Mechanically-actuated grate furnace. 1,741,808; Dec. 31.
- Benoist, Louis A., and G. T. Voorhees, Chicago, Ill. Refrigerating process and apparatus. 1,719,818; July 2.
- Benoit, Arthur B., Lawrence, Mass. Manifold strainer for cloth washers. 1,710,010; Apr. 23.
- Benrus Watch Case Company. (See Brandt, George, assignor.)



- Bens, Samuel J., New York, N. Y., assignor to Chain Saw Corporation. Portable tree-sawing apparatus. 1,717,547; June 18.
- Bens, Samuel J., New York, N. Y., assignor to Chain Saw Corporation. Power-driven chain-saw assembly. 1,723,125; Aug. 6.
- Bensa, Felice. (See Pongratz, Alfred, assignor.)
- Bensa, Felice. (See Pongratz, A., and Zinke, assignors.)
- Bensa, Felice. (See Zinke, Alois, assignor.)
- Bensa, Felice. (See Zinke, A., and Funke, assignors.)
- Bensel, Duryea, New York, N. Y., assignor to William Demuth & Company. Fountain pen. 1,725,973; Aug. 27.
- Bensinger, Howard J. (See O'Sullivan, Hugh J., assignor.)
- Benske, Friedrich, New York, N. Y. Fluid-operated valve. 1,697,944; Jan. 8.
- Bensley, Albert W., Pawtucket, R. I. Pole mounting. 1,730,754; Oct. 8.
- Benson, Andrew, Chicago, Ill. Cutting tool. 1,737,990; Dec. 3.
- Benson, Earle H., assignor to Regal Paper Company, Pulasqui, N. Y. Container for wax paper and the like. 1,724,871; Aug. 13.
- Benson, Edward L., New London, Conn. Terminal connector. 1,713,735; May 21.
- Benson, Fred J., and G. H. Lewis, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Method and apparatus for removing trimmed waste from rubber tubes. 1,730,991; Oct. 8.
- Benson, George, Hinsdale, Ill. Dual-control sill cock. 1,736,843; Nov. 26.
- Benson, George A. (See Johnson, J. A., and Benson.)
- Benson, George A., and F. Scholl, Norfolk, Va. Container for fluid under pressure. 1,734,514; Nov. 5.
- Benson, John F., Auckland, New Zealand. Fitting of window frames in buildings. 1,722,172; July 23.
- Benson, Walter F., St. Paul, Minn. Clip and cap structure for fountain pens. 1,717,001; June 11.
- Benson, William E., Wollaston, assignor of one-half to T. M. Prudden, Hingham, Mass. Container. 1,741,809; Dec. 31.
- Bent, George H., Battle Creek, Mich. Carton. 1,735,915; Nov. 19.
- Bent, Leavitt N. (See Humphrey, I. W., and Bent.)
- Bent, Leavitt N., Holly Oak, assignor to Hercules Powder Company, Wilmington, Del. Blasting explosive. 1,706,517; Mar. 26.
- Bente, William F., Los Angeles, Calif. Jack transfer. 1,708,649; Apr. 9.
- Bentley, Anson J., Niles, Ohio. Truck. 1,728,920; Sept. 24.
- Bentley, Anson J., Niles, Ohio. Apparatus for use in the manufacture of ice. 1,742,122; Dec. 31.
- Bentley, Frank F., Warren, assignor to Ohio Galvanizing & Manufacturing Company, Niles, Ohio. Sheet-metal containers. 1,725,698; Aug. 20.
- Bentley, Martin S., St. Helena, Calif. Strop holder. 1,735,723; Nov. 12.
- Bentley, Oliver D. H. (See Allen, G. W., and Bentley.)
- Bentley, Oliver D. H., Norfolk, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass. Bearing. 1,724,902; Aug. 20.
- Bentley, Percival A., Leicester, England. Machine for knitting. 1,703,607; Feb. 26.
- Bentley, Percival A., Leicester, England. Circular-knitting machine. 1,713,736; May 21.
- Bentley, Percival A., Leicester, England. Backlash-take-up gear. 1,722,889; July 30.
- Bentley, Percival A., and J. W. Goddard, Leicester, England. Circular-knitting machine. 1,712,726; May 14.
- Benton, Donald L., Los Angeles, Calif. Bumper. 1,697,587; Jan. 1.
- Benton, Donald L., Los Angeles, Calif. Bumper structure. 1,711,080; Apr. 30.
- Benton, Donald L., Los Angeles, Calif. Fender guard. 1,711,080; Apr. 30.
- Benton, Frank W., Wilson, N. C. Valve stem for pneumatic tires. 1,707,840; Apr. 2.
- Benton, Homer W., assignor to Whiting Corporation, Harvey, Ill. Truck for portable structures. 1,708,046; Apr. 9.
- Benton, Judson. (See Lane, Clark W., assignor.)
- Bentz, Peter B., et al. (See Seume, Herman A., assignor.)
- Benzing, Roland F. (See Cope, F. T. and Benzing.)
- Benzon, Joseph, New York, N. Y. Cooler for soda water, etc. 1,722,266; July 30.
- Benzon, Axel, Catonsville, assignor to The Silica Gel Corporation, Baltimore, Md. Wet-feed hopper. 1,713,886; May 21.
- Berch, Samuel H., Seattle, Wash. Manufacturing an ice-cream product and the product of said method. 1,708,252; Apr. 9.
- Berdich, Adolph. (See Davidson, W. J., Wolf, and Berdich.)
- Berdolt, Frank, Cossack, assignor of one-half to M. E. Berdolt, Albany, N. Y. Refrigerating apparatus. 1,724,122; Aug. 13.
- Berdolt, M. E. (See Berdolt, Frank, assignor.)
- Bereslavsky, Euphime V., New York, N. Y., assignor to Ethyl Gasoline Corporation. Low-compression fuel. 1,713,589; May 21.
- Bereth, Charles W., San Jose, Calif. Awning. 1,712,021; May 7.
- Berg, Alfred J., Portsmouth, N. H. Grinding machine. 1,725,126; Aug. 20.
- Berg, Alfred J., Portsmouth, assignor of one-third to J. A. de Rochemont, Newington, and one-third to H. C. Preble, Portsmouth, N. H. Reversible reamer. 1,728,590; Sept. 17.
- Berg, Charles C., Detroit, Mich. Floor mat for automobiles. 1,736,572; Nov. 19.
- Berg, Frederick A., Chicago, Ill. Compound regulated mute. 1,697,707; Jan. 1.
- Berg, Frederick A., Chicago, Ill. Combination regulated mute. 1,721,764; July 23.
- Berg, Fritz, Mannheim, Germany. Resilient wheel. 1,717,548; June 18.
- Berg, Hans, Grand Rapids, Mich., assignor to Kellogg Switchboard & Supply Co., Chicago, Ill. Radiocabinet. Des. 79,221; Aug. 20.
- Berg, Hart O. (See Michel, Gilbert, assignor.)
- Berg, Herman. (See Berg, Irving E., assignor.)
- Berg, Irving E., assignor of one-half to H. Berg, Brooklyn, N. Y. Umbrella-holding device. 1,712,022; May 7.
- Berg, Johannes, Chicago, Ill. Theftproof device for tire carriers. 1,707,622; Apr. 2.
- Berg, Joseph, Long Island City, N. Y. Horn amplifier. 1,705,632; Mar. 19.
- Berg, Richard O., assignor to Michigan Steel Tube Products Co., Detroit, Mich. Welding unit and method of welding. 1,716,847; June 11.
- Berg, Theophil H., assignor of one-half to C. R. Wilke, Lincoln, Neb. Voting booth. 1,704,689; Mar. 12.
- Berg, Thomas O., Priest River, Idaho. Crosscut saw. 1,710,142; Apr. 23.
- Bergdoll, Homer S., Thomas, W. Va. Windshield heater. 1,700,785; Feb. 5.
- Bergdoll, John G., assignor to York Ice Machinery Corporation, York, Pa. Refrigeration. 1,735,724; Nov. 12.
- Bergdoll, Alfred, Vohwinkel, near Elberfeld, and W. Neelmeier and T. Nocken, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Manufacture of new sulphur dyestuffs. 1,733,443; Oct. 29.
- Berge, Joseph, Montclair, N. J. Geared speed-changing device. 1,707,247; Apr. 2.
- Berge, Joseph, Montclair, N. J. Dirigible light and mounting therefor. 1,738,632; Dec. 10.
- Berge, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Speedometer-driving mechanism. 1,726,421; Aug. 27.
- Berge, Joseph, assignor to A C Spark Plug Co., Flint, Mich. Odometer mechanism. 1,738,558; Dec. 10.
- Berge, Louis, Flint, assignor to A C Spark Plug Company, Flint, Mich. Gauge dial. 1,717,653; June 18.
- Berge, Louis, assignor to A C Spark Plug Company, Flint, Mich. Collar-securing means. 1,721,765; July 23.
- Berge, Louis, assignor to A C Spark Plug Company, Flint, Mich. Stamped drive gear. 1,727,805; Sept. 10.
- Bergedorfer Eisenwerk Aktiengesellschaft. (See Prollius, Otto, assignor.)
- Bergeland, Tobias E., Dawson, Minn. Harrow. 1,711,485; May 7.
- Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Platter and platter-retaining device. 1,725,503; Aug. 20.
- Bergen, Point Iron Works. (See Smith, Augustus, assignor.)
- Bergen, William V., Hillsboro, and A. C. Shute, Portland, Ore., assignors to Niterday Signal Co. Highway signal. Re17,354; July 2.
- Berger Device Mfg. Co. Inc. (See Berger, Frank P., assignor.)
- Berger, Emil J., Philadelphia, assignor to Dexdale Hosiery Mills, Lansdale, Pa. Hosiery. Des. 78,722; June 11.
- Berger, Frank P., assignor to Berger Device Mfg. Co. Inc., Chicago, Ill. Gas or the like venting device. 1,737,560; Dec. 3.
- Berger, Friedrich W. F., Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,730,052; Oct. 1.
- Berger, Friedrich W. F., Berlin, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,735,033; Nov. 12.
- Berger, Herman, South Milwaukee, and J. Klestinski, Milwaukee, assignors to Helmholz Shoe Company, Cudahy, Wis. Shoe-shank-trimming cutter. 1,730,351; Oct. 8.
- Berger, Isadore, Newark, N. J., assignor to E. H. Chelm, New York, N. Y. Toy element constructed of sheet metal. 1,732,456; Oct. 22.
- Berger, John D. (See Don, Alexander, assignor.)
- Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Stitching mechanism for sewing machines. 1,717,180; June 11.
- Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Presser foot for sewing machines. 1,718,889; June 25.
- Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Needle-thread-controlling mechanism for sewing machines. 1,726,880; Sept. 3.
- Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing machines. 1,735,628; Nov. 12.
- Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper mechanism for sewing machines. 1,741,910; Dec. 31.
- Berger, Kornel C., Brooklyn, N. Y. Lamp-shade-frame center element. Re17,345; July 2.

- Berger-Manufacturing Company, The. (See French, Shirley S., assignor.)
- Berger Manufacturing Company, The. (See Isler, William, assignor.)
- Berger Manufacturing Company, The. (See Leptz, George W., assignor.)
- Berger Manufacturing Company. (See Vignos, Paul, assignor.)
- Berger, Marcus A., Homestead, Fla. Making dental crowns. 1,711,402; Apr. 30.
- Berger, Matthew R., Philadelphia, Pa. Support for gutter-hanger circles. 1,717,829; June 18.
- Berger, Paul H., Bronx, New York, N. Y. Toy pistol. 1,726,534; Sept. 3.
- Berger, Samuel, Newark, N. J. Doll construction. 1,707,504; Apr. 2.
- Berger, Samuel I., Newark, N. J. Figure wheeled toy. 1,725,247; Aug. 20.
- Berger, Samuel I., Newark, N. J. Statuette. Des. 78,188; Apr. 9.
- Berger, Samuel I., Newark, N. J. Mechanical toy. 1,705,172; Mar. 12.
- Berger, Samuel I., Newark, N. J. Skate wheel. 1,717,910; June 18.
- Bergeron, Arthur, and O. Boutin, Lawrence, Mass. Pickerstick check. 1,741,047; Dec. 24.
- Bergeron, Honoré, St. Camille, Quebec, Canada. Apparatus for exhausting air from containers. 1,724,787; Aug. 13.
- Bergesen, John, sr., Brooklyn, N. Y. Scaffold. 1,707,894; Apr. 2.
- Bergesen, John, sr., Brooklyn, N. Y. Derick. 1,720,714; July 16.
- Berggren, Nels, assignor to Federal Electric Company, Chicago, Ill. Sign border. Des. 80,070; Dec. 10.
- Berghaus, Bruno, Hanover, Germany. Sand thrower for foundries. 1,697,160; Jan. 1.
- Bergische Stahl-Industrie. (See Kindler, Eduard G. L., assignor.)
- Bergius, Friedrich, Heidelberg, Germany. Obtaining hydrogenation gas for hydrogenating carbon and hydrocarbons from gases containing methane and hydrogen. 1,699,177; Jan. 15.
- Berglund, Abel C., Browning, Mont. Mechanically-operated road map. 1,711,917; May 7.
- Bergman, Clyde A., Lamar, Colo. Beet harvester. 1,711,442; Apr. 30.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Alternating-current commutator motor. 1,706,137; Mar. 19.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamo-electric machine. 1,723,912; Aug. 6.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Electric welding. 1,716,614; June 11.
- Bergman, William G., Point Place, Ohio, assignor of one-half to D. P. Ozden, Ottawa, and one-half to E. F. Plumb, Sreator, Ill. Furnace and treating bodies therein. 1,701,223; Feb. 5.
- Bergmann, Christian N., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa. Cover-placing mechanism for packaging machines. 1,705,279; Mar. 12.
- Bergmann, Christian N., assignor to Bergmann Packaging Machine Company, Pittsburgh, Pa. Receiptacle-filling apparatus. 1,720,028; July 9.
- Bergmann, Christian N., Pittsburgh, Pa., E. Z. Taylor, Newark, N. J., and C. Taylor, Hartford, Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa. Unit-measuring machine. 1,734,108; Nov. 5.
- Bergmann, Christian N., Pittsburgh, Pa., E. Z. Taylor, Newark, N. J., and C. Taylor, J. P. Jensen, and W. A. Fenn, Hartford, Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa. Unit-measuring machine. 1,734,107; Nov. 5.
- Bergmann, Elmer G. (See Frie, L. B., and Bermann.)
- Bergmann, Karel, Prague, and J. Ottomansky, Prague-Zizkov, Czechoslovakia. Firearm. 1,722,190; July 23.
- Bergmann, Max, E. Immendorfer, and H. Loewe, Dresden, Germany. Treatment of animal and vegetable fibers. 1,737,104; Nov. 26.
- Bergmann Packaging Machine Company. (See Bergmann, Christian N., assignor.)
- Bergmann Packaging Machine Company. (See Bergmann, C. N., and Taylor, assignors.)
- Bergmann Packaging Machine Company. (See Bergmann, C. N., Taylor, Jensen, and Fenn, assignors.)
- Bergmann, Philip, assignor to Columbia Steel Equipment Company, Philadelphia, Pa. Cabinet. 1,698,578; Jan. 8.
- Bergmann, William H., Piqua, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Bending wood. 1,739,281; Dec. 10.
- Bergmans, Jan. (See Holst, G., Bergmans, and Bol.)
- Bergner, John C., Lansdowne, Pa., assignor to Doughnut Machine Corporation. Cooking apparatus. 1,727,857; Sept. 10.
- Bergner, John C., assignor of one-half to F. E. Morris, Philadelphia, Pa. Machine for forming pastries and the like. 1,702,191; Feb. 12.
- Bergner, Otto, Schonwald, Germany. Cup. Des. 78,256; Apr. 16.
- Bergner, Otto, Schonwald, Germany. Dish. Des. 79,917; Nov. 19.
- Bergquist, Hugo, Swissvale, and P. T. Keebler, Jeannette, assignors to Elliott Company, Pittsburgh, Pa. Heat exchanger. 1,726,943; Sept. 3.
- Bergquist, John G., New York, N. Y. Manufacture of cement from slag. 1,731,189; Oct. 8.
- Bergstedt, Victor. (See Erickson, G. E., and Kraft, assignors.)
- Bergstein, Samuel, Cincinnati, and A. Lindner, assignors to The Interstate Folding Box Company, Middletown, Ohio. Work-feeding mechanism for stitching machines. 1,722,952; July 30.
- Bergstein, Samuel, Middletown, Ohio. Making paper tubes or the like. 1,714,541; May 28.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Paper box or the like. 1,714,542; May 28.
- Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Paper box or the like. 1,738,815; Dec. 10.
- Bergstresser, Harold F., Lawrence, Kans. Dispensing device. 1,732,786; Oct. 22.
- Bergstrom, Arthur, Stockholm, Saskatchewan, Canada. Animal trap. 1,733,856; Oct. 29.
- Bergström, Erik J., Chicago, Ill. Collar button. 1,718,452; June 25.
- Bergstrom, Erik J., Chicago, Ill. Wedge. 1,735,448; Nov. 12.
- Bergstrom, Roy H., Los Angeles, Calif. Sash latch. 1,724,637; Aug. 13.
- Bergsunds Mekaniska Verkstads Aktiebolag. (See Huss, Gustaf H., assignor.)
- Bergvall, Royal C. (See Maxwell, J. P., Bergvall, and Ashbaugh.)
- Bergy, Klemens, assignor to the firm Max Gottlieb, Berlin, Germany. Surgical spray. 1,719,163; July 2.
- Beria, Antonio, assignor to Società Italiana Lavorazioni Meccaniche, Turin, Italy. Method of and apparatus for cutting lengths from a continuously-fed bundle of artificial threads, filaments, and the like. 1,723,998; Aug. 13.
- Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Automobile signal lamp. 1,697,803; Jan. 1.
- Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Convertible body. 1,705,043; Mar. 12.
- Berkeley Hall Furniture Company. (See Hall, Charles B., assignor.)
- Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Convertible body. 1,711,010; Apr. 30.
- Berke, Raymond O., Albuquerque, N. Mex. Display stand. 1,707,895; Apr. 2.
- Berke, Raymond O., Denver, Colo. Display device. 1,742,164; Dec. 31.
- Berkey, Hugh S., Huntington Beach, Calif. Pump-plunger valve and stem. 1,738,167; Dec. 3.
- Berkman, Herbert A., Chicago, Ill., assignor to Zim Manufacturing Company. Valve-facing tool. 1,736,739; Nov. 19.
- Berkmeyer, Henry W. (See Gilliam, James P., assignor.)
- Berkowski, Herman, Zielenzig-Ostrow, Germany. Bow for string instruments. 1,714,400; May 28.
- Berkowitz, Aaron, Brooklyn, N. Y. Hatbox. 1,721,143; July 16.
- Berkowitz, Aaron, New York, N. Y. Collapsible box and blank therefor. 1,700,758; Feb. 5.
- Berkowitz, Eugene B., assignor to Baltimore Paper Company, Kansas City, Mo. Printing attachment for envelope-folding machines. 1,706,433; Mar. 26.
- Berkowitz, Rebecca, New York, N. Y. Folding box with self-locking bottom. 1,700,733; Feb. 5.
- Berkshire Knitting Mills. (See Hemmerich, Hugo, assignor.)
- Berkshire Knitting Mills. (See Ischinger, Alfred E., assignor.)
- Berkson, Harry, Chicago, Ill. Four-in-hand necktie. 1,701,255; Feb. 5.
- Berl, Ernst, Darmstadt, Germany. Apparatus for producing artificial silk. 1,707,595; Apr. 2.
- Berlandi, Angelo, et al. (See O'Brien, Wilfred G., assignor.)
- Berlin Chapman Company. (See Chapman, Frank D., assignor.)
- Berlin-Chapman Company. (See Keeney, Charles H., assignor.)
- Berlin, Henry, New York, N. Y., assignor to International Patents Development Company, Wilmington, Del. Manufacture of pinacol. 1,703,220; Feb. 26.
- Berlin, Roscoe C. (See Green, A. B., Reeve, and Berlin.)
- Berliner, Emile, Washington, D. C. Wall. 1,740,147; Dec. 17.
- Berliner, Emile, Washington, D. C. Wall. 1,740,148; Dec. 17.
- Berliner Maschinenbau-Aktiengesellschaft vormals L. Schwartzkopff. (See Schlesinger, Alfred, assignor.)
- Berliner Maschinenbau-Aktiengesellschaft vormals L. Schwartzkopff. (See Schlesinger, A., and Lehnhoff, assignors.)
- Berliner, Nathan, New York, N. Y. Corselet. 1,702,034; Feb. 12.
- Berliner, Robert. (See Schmidt, R. E., and Berliner.)
- Berliner, Robert. (See Stein, B., Trautner, and Berliner.)
- Berliner, Robert. (See Trautner, W., Berliner, and Stein.)
- Berliner, Robert. (See Trautner, W., Stein, and Berliner.)



- Berliner, Robert, B. Stein, and W. Trautner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Cinnamylidene anthrones. 1,713,590; May 21.
- Berliner, Robert, B. Stein, and W. Trautner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. 10-phenyl-benzanthrone and derivatives of the same. 1,713,591; May 21.
- Berman, Gustave, Holyoke, Mass. Automobile body. Des. 77,635; Feb. 5.
- Berman, Israel, assignor to Melrose Slipper Co. Inc., New York, N. Y. Slipper or analogous article. Des. 78,327; Apr. 23.
- Berman, Joseph. (See Mestel, N., and Berman.)
- Berman, Morris, Brooklyn, N. Y. Motion-picture film. 1,733,481; Oct. 29.
- Berman, Philip, New York, N. Y. Composite unit wall. 1,719,749; July 2.
- Berman, Samuel, assignor to The Scholl Mfg. Co., Inc., Chicago, Ill. Metal-polishing machine. 1,704,933; Mar. 12.
- Bermingham, William B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picker stick check for looms. 1,726,799; Sept. 3.
- Bernard, Adelard, Drummondville, Quebec, Canada. Rotary pump. 1,739,661; Dec. 17.
- Bernard, Arthur F., Providence, R. I. Strap buckle. 1,737,404; Nov. 26.
- Bernard, Frank J., New York, N. Y. Coffee percolator. 1,719,498; July 2.
- Bernard, Frederik, San Francisco, Calif. Safety ventilator for oil tanks. 1,731,406; Oct. 15.
- Bernard, Harold B., assignor to Sinclair Oil and Gas Company, Tulsa, Okla. Apparatus for recovering gasoline. 1,713,323; May 14.
- Bernard, Harry, Chambersburg, Pa. Musical instrument. 1,703,382; Feb. 26.
- Bernard, James L., Beaver, Pa. Facing machine. 1,723,999; Aug. 13.
- Bernard, James L., Beaver, and J. L. Skeehan, Baden, Pa. Multiple-spindle drilling machine. 1,740,149; Dec. 17.
- Bernard, Marcel, Paris, France. Antenna construction. 1,712,023; May 7.
- Bernard, Marcel, Paris, France. Sound diaphragm. 1,735,417; Nov. 12.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand tool. 1,700,306; Jan. 29.
- Bernardaud, Jacques, Limoges, France. Covered dish. Des. 78,079; Mar. 26.
- Bernardaud, Jacques, Limoges, France. Covered dish. Des. 78,080; Mar. 26.
- Bernardin Bottle Cap Company. (See Spahn, August C., assignor.)
- Bernau, Frederick W., assignor to Ellis Adding-Type-writing Company, Newark, N. J. Overdraft and signal printing mechanism for calculating machines. 1,731,701; Oct. 15.
- Bernauer, George W., St. Charles, Mo. Combined curtain, awning and shade. 1,737,212; Nov. 26.
- Bernbaum, John W., and William Wright, assignors to Hotchkiss, Blue & Co. Ltd., Chicago, Ill. Car-ventilating system. 1,739,777; Dec. 17.
- Berndt, Richard F., and J. J. Halloran, assignors to Automatic Printing Devices Co., San Francisco, Calif. Machine for producing raised printing. 1,739,492; Dec. 17.
- Berne, Celestin, et al. (See Berne, Celestin, assignor.)
- Berne, Celestin, assignor to R. Vitello and C. Berne, Bridgeport, Conn. Valve silencer. 1,728,149; Sept. 10.
- Berner, Mary H., Millville, N. J. Ironing-board attachment. 1,724,175; Aug. 13.
- Bernert, George, Milwaukee, Wis. Method and apparatus for conveying bran or similar light material. 1,707,206; Mar. 26.
- Bernert, George, North Milwaukee, Wis. Pneumatic conveying apparatus. 1,737,561; Dec. 3.
- Bernet, Franz X., and P. J. Luthy, Perth, Western Australia, Australia. Silencer for internal-combustion engines. 1,700,993; Feb. 5.
- Bernhardt, Benjamin S., Boston, Mass. Door closer and check. 1,711,826; May 7.
- Bernhardt Glass Sohne. (See Glass, Hugo, assignor.)
- Bernhardt, Johann M., Malsing, near Munich, assignor to A T G Allgemeine Transportanlagen-Gesellschaft m. b. H., Leipzig, Germany. Lifting machine such as a crane. 1,722,125; July 23.
- Bernhardt, Louis, et al. (See McEnerny, Frank C., assignor.)
- Bernhardt, Richard. (See Haas, J. S., and Bernhardt.)
- Bernhardt, Richard, assignor to Traylor Engineering & Mfg. Company, Allentown, Pa. Ball mill. 1,719,164; July 2.
- Bernhardt, Friedrich G., Leisnig, Saxony, Germany. Intersecting gill box. 1,727,270; Sept. 3.
- Bernhardt, Harvey A., Chicago, Ill. Smoker's receptacle. Des. 80,012; Dec. 3.
- Bernhardt, Harvey A., assignor to Bernhardt Incorporated, Chicago, Ill. Portable sand jar. Des. 77,804; Feb. 26.
- Bernhardt Incorporated. (See Bernhardt, Harvey A., assignor.)
- Bernhardt, Joseph F., assignor to Triangle Automobile Spring Company, Du Bois, Pa. Spring. 1,735,371; Nov. 12.
- Bernhardt, M. E., Company. (See Greene, David W., assignor.)
- Bernhardt, M. E., Company. (See Schreer, Karl, assignor.)
- Bernhardt, M. E., Company, Inc. (See Greene, David W., assignor.)
- Bernhardt, Paul A., assignor to Loeffelholz Company, Milwaukee, Wis. Vehicle shade holder. 1,729,606; Oct. 1.
- Bernhardt, Victor C., Detroit, Mich. Airplane-wing construction. 1,721,329; July 16.
- Bernheim, Daniel F. (See Simonds, R. H., Bernheim, and McKinstry.)
- Bernheim, Eugene C., Southbridge, Mass., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,703,207; Apr. 9.
- Bernholtz, Kenneth A., Sylvania, Ohio. Lamp base. Des. 78,873; July 2.
- Bernier, Alonzo F., and W. E. Parnell, St. Paul, Minn. Toy helicopter. 1,708,999; Apr. 16.
- Bernier, Louis, Ferndale, Mich. Automatic switch control. 1,714,124; May 21.
- Bernitz Furnace Appliance Company. (See Nygaard, Oscar, assignor.)
- Bernon, Louis M., London, assignor of one-half to R. J. Walker, Leicester, England. Apparatus for automatically controlling the feed water of steam boilers. 1,737,213; Nov. 26.
- Bernstein, Adolph H., Chicago, Ill. Storage compartment. 1,719,256; July 2.
- Bernstein, Edward A., New York, N. Y. Projecting apparatus. 1,698,872; Jan. 15.
- Bernstein, Irving H., New York, N. Y. Fabric-bolt board. 1,736,776; Nov. 26.
- Bernstein, Jacob, Philadelphia, Pa. Skull for animals' heads and making same. 1,724,744; Aug. 13.
- Bernstein, Morris, Philadelphia, Pa. Flying machine. 1,726,208; Aug. 27.
- Bernstein, Peter, New York, N. Y. Cleaning device for windows or the like. 1,730,030; Oct. 1.
- Berntson, Arthur H., and C. J. Zimmerman, Salt Lake City, Utah. Ear tag. 1,704,423; Mar. 5.
- Berray, Kenneth E. (See Smith, C. A., and Berray.)
- Berry, Benjamin F., assignor to Berry Machine Company, St. Louis, Mo. Transmission mechanism for drilling machines. 1,706,207; Mar. 19.
- Berry, Benjamin F., assignor to The Berry Machine Company, St. Louis, Mo. Cutting machine. 1,710,084; Apr. 23.
- Berry, Benjamin F., assignor to Berry Machine Company, St. Louis, Mo. Delivery apparatus for feeding mechanism. 1,711,827; May 7.
- Berry, Earl E. (See Aldrich, A., and Berry.)
- Berry, Earl E. (See Aldrich, A., and Berry, assignors.)
- Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Flow control for flow boxes of paper-making machines. 1,727,928; Sept. 10.
- Berry, Earl E., Beloit, Wis., and F. W. Lodding, assignor to Rice, Barton & Pales, Incorporated, Worcester, Mass. Calendar-doctor-operating means. 1,704,853; Mar. 12.
- Berry, Francois J. B., Lille, France. Coal or rock cutting machine. 1,728,914; Sept. 24.
- Berry, Francois J. B., Lille, France. Machine for rock or coal cutting. 1,740,761; Dec. 24.
- Berry, Guy T., Independence, Kans. Well-measuring device. 1,705,553; Mar. 19.
- Berry, Harry L., Atlantic City, N. J. Making leather diaphragms. 1,704,676; Mar. 5.
- Berry, Harry M., Oil City, Pa. Containing and dispensing organization for motor oils. 1,721,941; July 23.
- Berry, Herbert H., London, England. Heating element for electric fires or radiators. 1,698,184; Jan. 8.
- Berry, Herbert H., London, England. Electric fire and radiator. 1,703,761; Feb. 26.
- Berry, John F., Bancor, Me. Mold. 1,705,354; Mar. 12.
- Berry, John F., Lewis, Iowa. Auxiliary sustaining and propelling means for airplanes. 1,742,123; Dec. 31.
- Berry, Lewis R., Portland, Me. Headrest and invalid-raising mechanism for bedsteads and cots. 1,713,164; May 14.
- Berry Machine Company. (See Berry, Benjamin F., assignor.)
- Berry, Melvin C., Washington, D. C. Convertible article of furniture. 1,741,048; Dec. 24.
- Berry, Percy G., South Canterbury, New Zealand. Mouse-excluding device for the pedal openings of pianos. 1,706,434; Mar. 26.
- Berry, Percy W., Reading, England, assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y. Apparatus for projecting colored beams of light. 1,711,303; Apr. 30.
- Berry, Ruth C., et al. (See Tyson, Robert B., assignor.)
- Berry, Simon, Seattle, Wash. Method of and apparatus for molding building blocks. 1,698,120; Jan. 8.
- Berry, W. T. (See Oxford, John T., assignor.)
- Berry, Walter M. (See Gereich, F. A., and Berry.)
- Berry, William, assignor to Joseph Bancroft & Sons Co., Wilmington, Del. Apparatus for cutting textile fabrics. 1,730,840; Oct. 8.
- Berryman, Ralph N., Grass Valley, Calif. Fan mounting. 1,726,881; Sept. 3.
- Berryman, Thomas J., Armagh, Ireland. Electric telegraph receiver. 1,707,041; Mar. 26.
- Berryman, Viola, and G. C. Hoxie, Concord, Calif. Sliding-screen construction. 1,736,336; Nov. 19.
- Bersche, Fridolin E., Waterloo, Ill. Radioclock. 1,703,258; Feb. 26.



- Berson, Nathan, Brooklyn, N. Y., assignor, by mesne assignments, to The Tri-Lok Company, Pittsburgh, Pa. Grating structure. 1,740,219; Dec. 17.
- Berssenbrugge, William, Milwaukee, Wis. Machine for applying corner irons. 1,726,209; Aug. 27.
- Berssenbrugge, William H., Milwaukee, Wis. Attachment for machines for coating material. 1,727,929; Sept. 10.
- Berst-Forster-Dixfield Company. (See Ricker, Charles P., assignor.)
- Bersted, Martin, Oak Park, Ill. Toaster. Des. 80,071; Dec. 10.
- Bersted, Martin C., San Diego, Calif. Automatic electric flatiron. 1,707,042; Mar. 26.
- Bersted, Martin C., San Diego, Calif. Automatically-controlled electric connection plug. 1,726,641; Sept. 3.
- Bersted, Martin C., San Diego, Calif. Automatically-controlled electric connection plug. 1,741,911; Dec. 31.
- Bert, Samuel, Dallas, Tex. Ice shaving and cutting machine. 1,700,819; Feb. 5.
- Bert, Samuel, Dallas, Tex. Ice-shaving machine. 1,722,031; July 23.
- Bertani, Jean M., New York, N. Y. Furniture. 1,713,863; May 21.
- Bertanyl, Leslie. (See Lauppi, and Bertanyl.)
- Bertele, Ludwig, Dresden, Germany. Ocular. 1,699,682; Jan. 22.
- Bertele, Ludwig, Dresden, Germany. Photographic objective. 1,708,863; Apr. 9.
- Bertels, Arnold S. (See Taplin, C. V., Allen, and Bertels.)
- Berthélemy, Pierre, and H. de Montby, Paris, France. Aluminum alloy and manufacturing the same. Re17,385; July 30.
- Berthelote, Joseph T., Carlsbad, Calif. Swab holder and swab therefor. 1,713,815; May 21.
- Berthold, Gustave W., Chicago, Ill. Circuit controller. 1,702,035; Feb. 12.
- Berthold, Gustave W., Chicago, Ill. Panel board. 1,729,145; Sept. 24.
- Berthold, Rudolf G., assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Lead-in construction for electric-discharge tubes. 1,725,175; Aug. 20.
- Berthon, Rodolphe, Neuilly-sur-Seine, France. Film for motion pictures in color. 1,707,157; Mar. 26.
- Berthon, Rodolphe, assignor to the Société Civile pour l'Etude de la Photographie et de la Cinématographie au Couleurs, Neuilly, France. Film for lenticular screen color photography and making the same. 1,721,244; July 16.
- Berthon, Rodolphe, Neuilly, assignor, by mesne assignments, to Société Française Cinechromatique (Procédés R. Berthon), Paris, France. Film for color photography. 1,729,922; Oct. 1.
- Bertinetti, Giovanni, and E. Gattino, Turin, Italy. Duplicating apparatus. 1,715,893; June 4.
- Bertram, Clarence C. (See Heimholtz, H., and Bertram.)
- Bertram, Henry J., Kansas City, Mo. Commutator. 1,707,596; Apr. 2.
- Bertram, Hugo A. (See Elbye, C., and Bertram.)
- Bertram, Joseph, Cincinnati, Ohio. Shoe. 1,731,810; Oct. 15.
- Bertram, Louis H. (See Grover, A. D., and Bertram.)
- Bertram, Robert H., Davenport, Iowa. Level. 1,705,889; Mar. 19.
- Bertram, Robert H., Davenport, Iowa. Automobile hood-locking device. 1,721,984; July 23.
- Bertram, William H., Payette, Idaho. Hay knife. 1,711,828; May 7.
- Bertrand, Frederic E. (See Hunt, C., and Bertrand.)
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lip-turning machine. 1,705,603; Mar. 19.
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching heels to shoes. 1,722,267; July 30.
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Drilling mechanism for wood-heel-attaching machines. 1,722,992; Aug. 6.
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole machine. 1,726,800; Sept. 3.
- Bertsch, Johann A. (See Jaeger, A. O., and Bertsch.)
- Bertschinger, Charles F., Jamaica, N. Y., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J. Antifraud means for tanks. 1,705,633; Mar. 19.
- Bertschmann, Jakob, Samaden, assignor to the firm Rauscher & Stocklin, Sissach, Switzerland. Increasing the rail grip of railway vehicles. 1,730,717; Oct. 8.
- Berven, Sigurd O., Seattle, Wash. Multiple drill head. 1,724,250; Aug. 13.
- Beryllium Corporation of America. (See Price, R. C., and Cooper, assignors.)
- Berzon, Louis, Philadelphia, Pa., assignor to Philadelphia Ice Cream Cone Machinery Company. Ice-cream-cone-baking machine. 1,708,930; Apr. 16.
- Beshenich, Matija, Mollenour, Pa. Check lock for mine cars. 1,720,164; July 9.
- Beskow, Bernhard M., New York, N. Y. Golf register. 1,714,070; May 21.
- Besley, Charles H., and Company. (See Miller, John, jr., assignor.)
- Bess, Gustavus, Seattle, Wash. Aeroplane. 1,704,719; Mar. 12.
- Bessee, Frank E., Los Angeles, Calif., assignor to McDonald Securities Co., Ltd., Las Vegas, Nev. Advertising device. 1,723,468; Sept. 17.
- Besser, Jesse H., Alpena, Mich. Automatic stripper machine. 1,699,218; Jan. 15.
- Besser, Jesse H., assignor to Besser Manufacturing Company, Alpena, Mich. Mold box. 1,706,647; Mar. 26.
- Besser Manufacturing Company. (See Besser, Jesse H., assignor.)
- Besson, Jean V. H., Bourges, France. Radiator and the like. 1,728,097; Sept. 10.
- Bessonett, Leland S., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Tube clamp. 1,709,110; Apr. 16.
- Best Blade & Holder Co., The. (See Stivers, Jake M., assignor.)
- Best, Clarence L., assignor to Caterpillar Tractor Co., San Leandro, Calif. Providing track shoes. 1,705,802; Mar. 19.
- Best, Clarence L., assignor to Caterpillar Tractor Co., San Leandro, Calif. Tracklaying tractor. 1,715,055; May 28.
- Best, Frank E., Seattle, Wash. Resilient chassis suspension device. 1,716,913; June 11.
- Best, Frank E., Seattle, Wash. Lock. 1,723,126; Aug. 6.
- Best, Frank E., assignor to Frank E. Best, Inc., Seattle, Wash. Lock. 1,716,914; June 11.
- Best, Frank E., and F. Powell, assignors to Frank E. Best, Inc., Seattle, Wash. Mortise knob lock. 1,707,215; Apr. 2.
- Best, Frank E., and F. Powell, said Powell assignor to Frank E. Best, Inc., Seattle, Wash. Mortise deadlock. 1,739,629; Dec. 17.
- Best, Frank E., Inc. (See Best, Frank E., assignor.)
- Best, Frank E., Inc. (See Best, F. E., and Powell, assignors.)
- Best, Frank E., Inc. (See Farnsworth, William Y., assignor.)
- Best, Gordon, Hale, England, assignor, by mesne assignments, to Mergenthaler Linotype Company, Brooklyn, N. Y. Manufacture of justifying spacers or space bands for use in typographical composing machines. 1,701,944; Feb. 12.
- Best, Harry S., assignor to John H. Best & Sons, Galva, Ill. Display rack. 1,720,816; July 16.
- Best, Harry S., assignor to John H. Best & Sons, Galva, Ill. Display stand. 1,720,879; July 16.
- Best, Harry S., Galva, and W. E. Nesbitt, Evanston, Ill., assignors to John H. Best & Sons, Galva, Ill. Display stand. 1,734,993; Nov. 12.
- Best, John H., & Sons. (See Best, Harry S., assignor.)
- Best, John H., & Sons. (See Best, H. S., and Nesbitt, assignors.)
- Best, Norman A., and J. E. Hoy, assignors to The Dow Chemical Company, Midland, Mich. Piston. 1,727,390; Sept. 10.
- Best, R. F. (See Mallory, Louis V., assignor.)
- Best, William H., Sacramento, Calif. Rake. 1,732,350; Oct. 22.
- Besta, Adalbert, assignor to Chemisch-Technische Gesellschaft mit beschränkter Haftung, Duisburg, Germany. Circulating apparatus for hot gases. 1,719,684; July 2.
- Beste, Ernest P., New Rochelle, assignor to Gould-Meresereau Company, Long Island City, New York, N. Y. Adjustable drapery-supporting device. 1,711,304; Apr. 30.
- Besteland, Knut, San Francisco, Calif. Excavator and loader. 1,706,689; Mar. 26.
- Beth, Hugo W. H. (See Larsson, T., and Beth.)
- Bethel, Claude, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear wheel. 1,705,709; Mar. 19.
- Bethel, Claude, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor suspension. 1,709,704; Apr. 16.
- Bethel, Claude, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear. 1,725,127; Aug. 20.
- Bethel, Claude, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear wheel. 1,729,435; Sept. 24.
- Bethel, Claude, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear wheel. 1,735,105; Nov. 12.
- Bethenod, Joseph, Paris, France. Centrifugal regulator for electric motors. 1,725,953; Aug. 27.
- Bethenod, Joseph, Paris, France. Amplifier. 1,725,954; Aug. 27.
- Bethenod, Joseph, Paris, France. High-power thermionic tube. 1,738,348; Dec. 3.
- Bethlehem Foundry and Machine Company. (See Halse, Ernest, assignor.)
- Bethlehem Foundry & Machine Company. (See Needham, Charles E., assignor.)
- Bethlehem Milling Company. (See White, Henry J., assignor.)
- Bethlehem Shipbuilding Corporation. (See Burkhardt, John E., assignor.)
- Bethlehem Shipbuilding Corporation. (See Gray, William L., assignor.)
- Bethlehem Shipbuilding Corporation. (See Moore, Fennel C. J., assignor.)
- Bethlehem Steel Company. (See Bigge, H. C., and Elliott, assignors.)



- Bethlehem Steel Company. (See Dougherty, R. S. A., and McGrew, assignors.)  
 Bethlehem Steel Company. (See Dougherty, R. S. A., and Salsich, assignors.)  
 Bethlehem Steel Company. (See Edwards, Charles L. T., assignor.)  
 Bethlehem Steel Company. (See Geer, Harry R., assignor.)  
 Bethlehem Steel Company. (See Hoffer, James M., assignor.)  
 Bethlehem Steel Company. (See Keller, Albert T., assignor.)  
 Bethlehem Steel Company. (See Keller, A. T., and Stevens, assignors.)  
 Bethlehem Steel Company. (See Kenney, Edward F., assignor.)  
 Bethlehem Steel Company. (See Kenney, E. F., and Winkler, assignors.)  
 Bethlehem Steel Company. (See Kichline, Frank O., assignor.)  
 Bethlehem Steel Company. (See Kinney, James A., assignor.)  
 Bethlehem Steel Company. (See Lachman, L. S., and Tench, assignors.)  
 Bethlehem Steel Company. (See Lachman, Maurice, assignor.)  
 Bethlehem Steel Company. (See Lehr, Charles E., assignor.)  
 Bethlehem Steel Company. (See Lewis, R. A., and Eynon, assignors.)  
 Bethlehem Steel Company. (See Madden, James P., assignor.)  
 Bethlehem Steel Company. (See Madden, J. P., and Nordstrom, assignors.)  
 Bethlehem Steel Company. (See McCarty, Richard J., Jr., assignor.)  
 Bethlehem Steel Company. (See McGrew, John A., assignor.)  
 Bethlehem Steel Company. (See Marsten, Ole J., assignor.)  
 Bethlehem Steel Company. (See Miller, Louis G., assignor.)  
 Bethlehem Steel Company. (See Pinder, Jarvis P., assignor.)  
 Bethlehem Steel Company. (See Reed, John C., assignor.)  
 Bethlehem Steel Company. (See Ring, F. G., and Paris, assignors.)  
 Bethlehem Steel Company. (See Schenck, C., and Fine, assignors.)  
 Bethlehem Steel Company. (See Seavey, Elmer S., assignor.)  
 Bethlehem Steel Company. (See Siebert, Herman C., assignor.)  
 Bethlehem Steel Company. (See Stevens, Richard H., assignor.)  
 Bethlehem Steel Company. (See Thomas, Henry, assignor.)  
 Bethlehem Steel Company. (See Underwood, C. E., and Beatty, assignors.)  
 Bethlehem Steel Company. (See West, Arthur J., assignor.)  
 Bethlehem Steel Company. (See Wilson, Tom, assignor.)  
 Betke, Herman, Denver, Colo. Steam board. 1,739,571; Dec. 17.  
 Bettcher Stamping & Manufacturing Company, The. (See Bump, Spencer M., assignor.)  
 Bettencourt, Manuel P. (See Westbrook, F. P., and Bettencourt.)  
 Bettendorf Company, The. (See Clasen, Claus J. W., assignor.)  
 Bettendorf Company, The. (See Lewis, Frank W., assignor.)  
 Bettendorf, Joseph W., Bettendorf, Iowa. Making journal-box lids. 1,707,043; Mar. 26.  
 Bettendorf Oil Burner Company. (See Dooley, Clarence H., assignor.)  
 Bettenga, Creno P., Marshalltown, Iowa. Disinfecting hen's nest. 1,711,107; Apr. 30.  
 Bettica, Alberto, Turin, Italy. Reciprocating electric hammer. 1,725,504; Aug. 20.  
 Bettinger, Hoyland B. (See Greenwood, O. P., and Bettinger.)  
 Bettini, Gianni, New York, N. Y. Motion-picture apparatus. 1,708,410; Apr. 9.  
 Bettini, Gianni, New York, N. Y. Motion-picture apparatus. 1,708,533; Apr. 9.  
 Bettini, Gianni, New York, N. Y. Portable lighter. 1,740,568; Dec. 24.  
 Bettison, David C., Omaha, Nebr. Electrical apparatus. 1,741,007; Dec. 24.  
 Bettles, John W. B., Birmingham, England. Manufacture of fencing, railings, or gates. 1,703,608; Feb. 26.  
 Bettoney, Harry, Boston, Mass. Clarinet. 1,705,634; Mar. 19.  
 Betts, Anson G., Plainfield, Mass. Furnace element and maintaining the same. 1,703,656; Feb. 26.  
 Betts, Anson G., Kinderhook, N. Y. Smelting manganese. 1,703,657; Feb. 26.  
 Betts, Benjamin B. (See Einstein, R. E., and Betts.)  
 Betts & Betts Corporation. (See Scheril, Henry, assignor.)  
 Betts, Frank L., University City, Mo. Tube container and closure therefor. 1,726,642; Sept. 3.  
 Betts, John H. (See Curtis, Henry B., assignor.)  
 Betz, Frank S., Company. (See Schneider, Oscar K., assignor.)  
 Betz, Frank S., Company. (See Weber, Frank S., assignor.)  
 Betzer, John R., Hillsboro, Ore. Headlight. 1,702,960; Feb. 19.  
 Betzinger, Henry F., Albany, N. Y. Ink divider for printing presses. 1,699,389; Jan. 15.  
 Betzoldt, Theodore C., et al. (See Wagener, Hans, assignor.)  
 Beugler, Edwin F., assignor to E. & B. Holmes Machinery Co., Buffalo, N. Y. Machine for making barrels. 1,723,838; Aug. 6.  
 Beuka, Andy, Stratford, Conn. Spading attachment for concrete-finishing machines. 1,717,138; June 11.  
 Beurrier, Alexis, Thains par Cozes, France. Hydraulic prime mover. 1,713,366; May 14.  
 Beusch, Willi, Zug, Switzerland. Metering alternating currents. 1,727,858; Sept. 10.  
 Beusch, Willi, assignor to Landis & Gyr A.-G., Zug, Switzerland. Wattless component meter. 1,734,109; Nov. 5.  
 Beusch, Willi, Zug, Switzerland, assignor to Landis & Gyr, A.-G. Controlling induction electricity meters. 1,734,110; Nov. 5.  
 Beusch, Willi, Zug, Switzerland, assignor to Landis & Gyr A.-G. Induction meter. 1,740,569; Dec. 24.  
 Beutelspacher, Adolf, Pforzheim, Germany. Pin. 1,723,216; Oct. 22.  
 Beutner, Fred G., White Lake, S. Dak. Sliding seat for automobiles. 1,728,655; Sept. 17.  
 Bevans, Ralph C., Dorchester, Mass. Window-screen mounting. 1,723,642; Aug. 6.  
 Beverage, Harold H., Riverhead, N. Y., assignor to Radio Corporation of America. Phasing of antenna. 1,697,945; Jan. 8.  
 Beverly, Walter T., Louisville, Ky. Shipping receptacle. 1,719,868; July 9.  
 Bevis, Rexford E., Franklin, Ohio. Shredding machine. 1,725,176; Aug. 20.  
 Bewan, James O., Miami, Fla. Trap. 1,739,493; Dec. 17.  
 Bewley, William P., Hickman Mills, Mo. Burial vault. 1,700,346; Jan. 29.  
 Beyer, Alfred H., Cleveland, Ohio, assignor of one-fourth to G. B. Kerper, San Francisco, Calif. Box. 1,716,757; June 11.  
 Beyer, Alois, Chicago, Ill., assignor to Detex Watchlock Corporation, New York, N. Y. Watchman's time clock. 1,716,477; June 11.  
 Beyer, John, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Discharge outlet for tanks. 1,727,692; Sept. 10.  
 Beyer, John, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Discharge outlet. 1,727,693; Sept. 10.  
 Beyer, John, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Discharge outlet. 1,727,694; Sept. 10.  
 Beyer, John, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-securing means. 1,727,695; Sept. 10.  
 Beyer, Otto S., Brooklyn, assignor to E. W. Bliss Company, New York, N. Y. Power punching press. 1,716,414; June 11.  
 Beyl, Emil A., Minneapolis, Minn. Self-aligning take-up box and roller bearing. 1,718,520; June 25.  
 Beyler, Albert, assignor to Rheinische Gummi- und Celluloid-Fabrik, Mannheim-Neckerau, Germany. Doll eyes. 1,721,369; July 16.  
 Beyrer, James R., et al., trustees. (See Scheid, Henry J., assignor.)  
 Beyrle, Thomas, Los Angeles, Calif. Frame and making same. 1,702,626; Feb. 19.  
 Beytes, Leon H., North Plymouth, Mass. Control mechanism for head and box motions of looms. 1,705,468; Mar. 19.  
 Bezanson, George, Winchester, assignor to Julian D'Este Co., Boston, Mass. Steam trap. 1,727,324; Sept. 10.  
 Bezzenberger, Fred K., Cleveland Heights, Ohio, assignor to The Fulton Syphon Company, Knoxville, Tenn. Making bellows. 1,698,210; Jan. 8.  
 Bezzenberger, Fred K., East Cleveland, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing material and making same. 1,702,927; Feb. 19.  
 Bezzenberger, Fred K., assignor, by mesne assignments, to Aluminum Company of America, Cleveland, Ohio. Electrodeposition of metals. 1,729,607; Oct. 1.  
 Bianchi, Agostino, Manteca, Calif. Vine-trimming machine. 1,731,607; Oct. 15.  
 Bianchi, Valentino L., and G. A. Holsberg, San Francisco, Calif.; said Holsberg assignor to said Bianchi. File holder. 1,707,207; Mar. 26.  
 Bianco, Celestino A., and E. E. Kinley, Oakland, Calif. Athletic overshoe. 1,728,469; Sept. 17.  
 Bible, Philip L., Dallas, Tex., and J. T. Thrasher, Birmingham, Ala. Baseball-throwing machine. 1,733,394; Oct. 29.  
 Bice, Walter H., Detroit, Mich. Valve-stem guide. 1,697,847; Jan. 8.  
 Bichelani, Habib M., Bayonne, N. J. Sign. 1,723,127; Aug. 6.  
 Bicheroux, Max, Aachen, Germany. Manufacture of window glass. 1,741,912; Dec. 31.  
 Bickell, Charles H. (See Hayes, Fred L., assignor.)  
 Bickford, Albert H., L. B. Melvin, and F. G. Thomas, Waterville, Me. Straining device. 1,698,906; Jan. 15.  
 Bickford, Clarence W., et al. (See Warga, Klamon, assignor.)



- Bickford, Frederick E., Rochester, N. Y. Container. 1,698,489; Jan. 8.
- Bickford, Mary, et al. (See Warga, Kalman, assignor.)
- Bickford, Oscar L., and H. S. Denley, Toledo, Ohio. Signaling system. 1,716,204; June 4.
- Bickley, C. A., et al. (See Vroman, John C., assignor.)
- Bickley, Jack, Robstown, Tex. Releasable implement. 1,713,212; May 14.
- Bickley, Joe, et al. (See Vroman, John C., assignor.)
- Bicknell, Charles H. (See Hayes, Fred L., assignor.)
- Bicknell, Frank A., Florence, Mass., assignor to Puro Sanitary Drinking Fountain Company, Haydenville, Mass. Push valve. 1,734,791; Nov. 5.
- Bicks, Jean W., assignor to Western Products Company, Chicago, Ill. Bottle. Des. 77,805; Feb. 26.
- Bicsey, Andrew E., McKeesport, Pa. Electrode holder. 1,729,059; Sept. 24.
- Bidal, Paul, Paris, France. Telescopic socket wrench. 1,741,810; Dec. 31.
- Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Treatment of rubber and like substances and the product thereof. 1,716,478; June 11.
- Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Caoutchouc composition. 1,722,553; July 30.
- Biddle, John M., assignor to Union Special Machine Company, Chicago, Ill. Chaining presser foot for felling machines. 1,713,324; May 14.
- Bidwell, Earl E., Wichita, Kans. Spark gap and shield. 1,739,118; Dec. 10.
- Bidwell, Edgar M., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working fibrous material. 1,720,715; July 16.
- Bidwell, Paul W., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Method of and apparatus for finishing glassine paper. 1,739,572; Dec. 17.
- Bieder, Herman, Cleveland, Ohio. Jig. 1,712,453; May 7.
- Biedermann, Paul R. G., Los Angeles, Calif. Flume and settling trough. 1,699,948; Jan. 22.
- Biedermann, Paul R. G., Los Angeles, Calif. Sucker-rod spacer. 1,724,176; Aug. 13.
- Biedermann, Paul R. G., Los Angeles, Calif. Valve. 1,733,180; Oct. 29.
- Biefang, Herman J., Cincinnati, Ohio. Treating steel. 1,699,683; Jan. 22.
- Biehler, Louis A., Stanhope, N. J. Weighing device. 1,729,414; Sept. 24.
- Biek, Charles J., Dowagiac, Mich. Hot-air furnace. 1,731,997; Oct. 15.
- Bielecki, Stanislaw, New York, N. Y. Lens. 1,739,478; Dec. 10.
- Bielle, Fernand L., et al. (See Rochas, Maurice G. E., assignor.)
- Bielski, Richard, Detroit, Mich. Shaping machine. 1,728,030; Sept. 10.
- Bienaimé, Robert, Paris, France. Fastening device. 1,733,108; Oct. 29.
- Bienvenu, Frank A., Montreal, Quebec, assignor, by mesne assignments, to Catelli Macaroni Products Corporation Limited, Montreal, Canada. Baking utensil. 1,699,869; Jan. 22.
- Bierbach, Carl F., Providence, R. I. Pencil sharpener. 1,728,528; Sept. 17.
- Bierce, Fred N., Cincinnati, Ohio. Concrete-form clamp. 1,721,542; July 23.
- Bierd, Richard E., and J. H. Patterson, Seattle, Wash. Stabilizer. 1,734,194; Nov. 5.
- Bierfield, Albert S., Chicago, Ill., assignor to Home Safety Corporation. Window guard. 1,734,415; Nov. 5.
- Bierly, Edgar H., Emporium, Pa. Adjustable wrench. 1,711,718; May 7.
- Biermanns, Josef, Karlshorst, near Berlin, Germany, assignor to General Electric Company. Protective apparatus. 1,701,353; Feb. 5.
- Biermanns, Josef, Karlshorst, Germany, assignor to General Electric Company. Protective apparatus. 1,714,940; May 28.
- Biers, John W., New York, N. Y. Gas burner. 1,733,934; Oct. 29.
- Biertuempfel, Albert H., Newark, N. J. Automobile headlight. 1,722,268; July 30.
- Biery, Hudson R., Indianapolis, Ind. Combination cashfare receipt and hat check. 1,724,554; Aug. 13.
- Biesen, James H., assignor of one-third to O. Balcar and one-third to J. A. Balcar, Cedar Rapids, Iowa. Refrigerating apparatus. 1,703,468; Feb. 26.
- Bieser, Carl W., assignor to The Gruen National Watch Case Company, Cincinnati, Ohio. Ribbon clasp. 1,698,530; Jan. 8.
- Bietsch, John P., Chambersburg, Pa. Identification tag. 1,727,806; Sept. 10.
- Biewend, Erik C., and W. R. Konkle, Jackson, Mich. Screw-machine stop. 1,729,863; Oct. 1.
- Biffar, Fred, Chicago, Ill. Cap for a pen or similar article. Des. 79,546; Oct. 8.
- Big Rock Ranch Company. (See Heise, William H., assignor.)
- Bigelow Company, The. (See Welter, Gustave, assignor.)
- Bigelow-Hartford Carpet Company. (See Cunniff, Edward A., assignor.)
- Bigelow-Hartford Carpet Company. (See Pearsall, William, assignor.)
- Bigelow-Hartford Carpet Company. (See Stone, Edwin W., assignor.)
- Bigelow Liptak Corporation. (See Sharp, C. E., and Stratchota, assignors.)
- Bigelow, Merle E., Milford Center, Ohio. Wrench. 1,698,618; Jan. 8.
- Bigenwald, Rudolf, Hirschgarten, Germany, assignor to General Electric Company. Electric switch. 1,728,031; Sept. 10.
- Biggar, John H., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical cable. 1,727,955; Sept. 10.
- Bigge, Henry C., and C. R. Ellicott, Bethlehem, Pa., assignors to Bethlehem Steel Company. Low-carbon chromium steel. 1,715,979; June 4.
- Bigger, Alexander A., Farmville, Va. Warning signal for railroad crossings. 1,725,505; Aug. 20.
- Biggett, Florence C., jr. (See Akin, T. R., Young, and Biggett.)
- Biggett, Florence C., jr., Crafton, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Apparatus for stretching and coiling strip material. 1,715,219; May 28.
- Biggs Boiler Works Company, The. (See Sherbondy, Frederick G., assignor.)
- Biggs Boiler Works Company, The. (See Stringfellow, Henry, assignor.)
- Biggs, Franklin H., Toledo, Ohio. Car unloader. 1,716,101; June 4.
- Biggs, George A., assignor to Rodney Hunt Machine Company, Orange, Mass. Gate-adjusting means for turbines and the like. 1,728,719; Sept. 17.
- Biggs, Leonard R. (See Bennett, F. S., and Biggs.)
- Biggs, Leroy, Oroville, Wash. Can-labeling machine. 1,705,355; Mar. 19.
- Bigio, Albert, New York, N. Y. Traffic safety device. 1,729,325; Sept. 24.
- Bigland, Reuben, Handsworth, England, assignor of one-half to F. W. Jones, Newark, N. J. Suspending curtains and similar draperies. 1,732,299; Oct. 22.
- Biglane, George T., Collins, Miss. Three-way nozzle. 1,708,826; Apr. 9.
- Bigny, Harold O., Providence, R. I. Watch bracelet. 1,711,985; May 7.
- Bigoney, Thomas W., Philadelphia, Pa. Tobacco pipe. 1,733,113; Oct. 29.
- Bijur, Joseph, New York, assignor to Eclipse Machine Company, Elmira Heights, N. Y. Engine-starting apparatus. 1,700,214; Jan. 29.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Chassis-lubricating installation. 1,732,212; Oct. 15.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Flow-control fitting. 1,732,828; Oct. 22.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Flow-control fitting. 1,734,026; Oct. 29.
- Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Flow-control fitting. 1,734,027; Oct. 29.
- Bilan, John, Flint, Mich. Multivane aeroplane. 1,722,487; July 30.
- Biles, Andrew W., assignor to Henry Lees and Company, Limited, Glasgow, Scotland. Tipping apparatus for wagons and the like. 1,700,693; Jan. 29.
- Biles, Reginald W. (See Clothier, H. W., and Biles.)
- Biles, Reginald W. (See Leeson, B. H., and Biles.)
- Biles, Reginald W., Balcombe, assignor to A. Reyrolle & Company Limited, Hibburn-on-Tyne, England. Protective apparatus for alternating-current electric circuits. 1,714,071; May 21.
- Bilestine, Charles A., Toledo, Ohio. Oaring device for rowboats. 1,704,074; Mar. 5.
- Bilinski, Michal, Ottawa, Ontario, assignor of one-half to W. H. Watters, Temiskaming, Canada. Trap. 1,727,325; Sept. 10.
- Biller, Hans, Nuremberg, Germany. Sound box for talking machines. 1,725,327; Aug. 20.
- Billger, Alonzo E., Indianapolis, Ind. Valve reamer. 1,726,801; Sept. 3.
- Billig, Fred W. (See Sparks, W., Scofield, Billig, and Johnson.)
- Billigmann, Peter, assignor to Deutsche Maschinenfabrik Aktiengesellschaft, Duisburg, Germany. Straightening machine provided with rolls. 1,716,362; June 11.
- Billingham, Wilfred E., Lee, England. Emulsification of tar, bitumen, creosote, petroleum, heavy oils, and the like. 1,700,581; Jan. 29.
- Billings, Clarence E. (See Fatscher, G. C., and Billings.)
- Billings, Clarence E., assignor to The New Haven Sand Blast Company, New Haven, Conn. Sand-blast apparatus. 1,710,604; Apr. 23.
- Billings, Clarence E., assignor to The New Haven Sand Blast Company, New Haven, Conn. Dust arrester. 1,715,273; May 28.
- Billings, Frank. (See Greenleaf, Robert P., assignor.)
- Billings, Frank M., Inglewood, Calif. Pick handle. 1,697,749; Jan. 1.
- Billings, John G. (See Bilsky, Jacob, assignor.)
- Billings & Spencer Company, The. (See Talcott, Morton C., assignor.)
- Billingsley, Arthur E., Leigh-on-Sea, England. Signal apparatus associated with electrically-controlled machinery. 1,709,517; Apr. 16.
- Billington, Arthur M. (See Straussler, Nicholas, assignor.)
- Billington, James H., Company. (See Hall, Washington L., assignor.)
- Billotte, Louis C., Revere, and E. Lipson, Chelsea, Mass. Electric discharge device. 1,727,956; Sept. 10.



- Billotte, Louis C., Revere, and E. Lipson, Chelsea, Mass. Electrical discharge device. 1,730,053; Oct. 1.
- Billow, Elmer E., Evanston, Ill. Furnace. 1,732,876; Oct. 22.
- Billstrom, Edwin J., Rockford, Ill. Glue-clamp carrier. 1,729,146; Sept. 24.
- Billups, Timothy C. (See Ross, J. E., jr., and Billups.)
- Bilmarjac Corporation. (See King, William J., assignor.)
- Bilsky, Jacob, now by change of name J. G. Billings, Chicago, Ill. Gas absorber for products of combustion. 1,716,479; June 11.
- Bilsky, Jacob, now by change of name J. G. Billings, Chicago, Ill. Gas absorber for products of combustion. 1,716,480; June 11.
- Bilsky, Jacob, now by change of name J. G. Billings, Chicago, Ill. Purifying the exhaust gases from internal-combustion engines. 1,716,481; June 11.
- Bilton, Louis, East Liverpool, Ohio, assignor to Palm, Fechteler & Co., New York, N. Y. Plate or similar article. Des. 79,222; Aug. 20.
- Bilton, Louis, East Liverpool, Ohio, assignor to Palm, Fechteler & Co., New York, N. Y. Plate or similar article. Des. 79,547; Oct. 8.
- Bilton, Louis, East Liverpool, Ohio, assignor to Palm, Fechteler & Co., New York, N. Y. Plate or similar article. Des. 79,548; Oct. 8.
- Bilt-Rite Baby Carriage Co. (See Specter, Elias, assignor.)
- Bilt-Rite Baby Carriage Co., et al. (See Specter, Elias, assignor.)
- Bilty, Charles H., and O. C. Peterson, Milwaukee, Wis. Steam turret. 1,707,793; Apr. 2.
- Bilz, Peter. Junction box for electric fixtures. 1,722,622; July 30.
- Bilz, William F., McKeesport, Pa. Nail driver. 1,726,012; Aug. 27.
- Bimat, Pascal J., Bakersfield, Calif. Grab. 1,737,909; Dec. 3.
- Bimonte, Michael. (See Doty, C. E., and Bimonte.)
- Binder, Walter J., Trenton, N. J. Overshoe. 1,729,816; Oct. 1.
- Binder, Walter J., Fort Thomas, assignor to Specialty Envelope Company, Newport, Ky. Duplex envelope. 1,726,138; Aug. 27.
- Bindon, James, Newport, R. I. Automobile accessory. 1,705,710; Mar. 19.
- Bindon, James, Newport, R. I. Automobile accessory. 1,710,807; Apr. 30.
- Bing, Bridget, New York, N. Y. Quilt or similar article. Des. 79,279; Aug. 27.
- Bing, Julius, assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezial-Fabrik für Elektromagnet-Apparate, Eisenach, Germany. Electromagnetic chuck. 1,704,783; Mar. 12.
- Bing, Julius, assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Electromagnetic separator. 1,712,808; May 14.
- Bing, Julius, assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Germany. Diesel-locomotive control. 1,720,203; July 9.
- Bing, Julius, assignor to the firm Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Thuringia, Germany. Safety device for lifting electromagnets. 1,733,714; Oct. 29.
- Bing-Werke, vorm. Gebr. Bing A. G. (See Schliederer, Emil, assignor.)
- Bing, William S., San Diego, Calif. Hospital-room indicator. 1,727,629; Sept. 10.
- Binger, Gustav H., Topeka, Kans. Adjustable metal display bracket. 1,733,001; Oct. 22.
- Bingham, Joseph, assignor to Universal Art Stitch Machine Limited, Belfast, Ireland. Sewing machine. 1,713,943; May 21.
- Bingham, Lavinia. (See Bingham, William H. C., assignor.)
- Bingham, William H. C., assignor to Lavinia Bingham, New York, N. Y. Permanent-hair-waving device and the like and using same. 1,701,660; Feb. 12.
- Bingle, Edmund W., assignor to Herz Bed Company, Chicago, Ill. Spring-mattress structure. 1,709,303; Apr. 16.
- Bingler, Franz, Ludwigshafen, Germany. Ankle support with foot-forming sole. 1,718,521; June 25.
- Bingman, Robert F., Portland, Oreg. Wrist-pin joint. 1,734,244; Nov. 5.
- Binkele, Herman C., Tigard, Oreg. Elevator clothes drier. 1,714,343; May 21.
- Binkele, Herman C., Tigard, Oreg. Elevator clothes drier. 1,722,191; July 23.
- Binkley, Martin J., East Orange, N. J., assignor to Calorol Burner Corporation. Oil burner. 1,740,062; Dec. 17.
- Binkley, William E., Norwood, Ohio. Auto steering wheel. 1,714,155; May 21.
- Binkovitz, M., & Sons Inc. (See Binkovitz, Reuben, assignor.)
- Binkovitz, Reuben, Brooklyn, assignor to M. Binkovitz & Sons Inc., New York, N. Y. Mattress ticking or similar article of manufacture. Des. 77,806; Feb. 26.
- Binkovitz, Reuben, Brooklyn, assignor to M. Binkovitz & Sons Inc., New York, N. Y. Mattress ticking or similar article of manufacture. Des. 77,807; Feb. 26.
- Binks, Eric U., Montreal, Quebec, Canada. Bottle. Des. 78,140; Apr. 2.
- Binks, Harry D., Oak Park, assignor, by mesne assignments, to Binks Manufacturing Company, Chicago, Ill. Paint-spray nozzle. 1,717,086; June 11.
- Binks, Harry D., Oak Park, assignor, by mesne assignments, to Binks Manufacturing Company, Chicago, Ill. Air-control valve for spray guns. 1,720,389; July 9.
- Binks Manufacturing Company. (See Binks, Harry D., assignor.)
- Binks Manufacturing Company. (See Bramsen, S., and Hersleb, assignors.)
- Binks, Squire, Toronto, Ontario, Canada. Desk file. 1,736,574; Nov. 19.
- Binley, Arthur J., Glens Falls, N. Y. Cut-flower holder. 1,707,896; Apr. 2.
- Binnemann, Richard, Frelstedt, Germany. Fixing device for cravats and ties. 1,711,580; May 7.
- Binney, Eric A., Timperley, England, assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,699,775; Jan. 22.
- Binnie, Victor B. C., Handsworth, assignor to Dunlop Rubber Company Limited, Birmingham, England. Golf ball. Des. 79,223; Aug. 20.
- Binnie, Victor B. C., Handsworth, assignor to Dunlop Rubber Company Limited, Birmingham, England. Golf ball. Des. 79,224; Aug. 20.
- Binns, Douglas W., Nashville, Tenn. Coal or wood burning household heater. Des. 77,808; Feb. 26.
- Binns, Douglas W., assignor to Phillips & Buttorff Mfg. Co., Nashville, Tenn. Stove. 1,719,357; July 2.
- Binns, Edward H. (See Binns, Ralph H., assignor.)
- Binns, Frederick W., Quincy, Mass., assignor to Virginia Smelting Company, Portland, Me. Stripping rags with sulphur dioxide. 1,741,496; Dec. 31.
- Binns, George W., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machinery. 1,705,230; Mar. 12.
- Binns, George W., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding. 1,709,818; Apr. 16.
- Binns, George W., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinder. 1,723,128; Aug. 6.
- Binns, Ralph H., assignor of five-sevenths to E. H. Binns, Pittsburgh, Pa. Flexible closure. 1,701,555; Feb. 12.
- Binns, William, Cranston, R. I., and F. D. Neill, Medford, Mass. Combing textile material. 1,697,491; Jan. 1.
- Binocular Stereoscopic Film Company. (See Elder, Robert F., assignor.)
- Binsfeld, Frank, St. Gregor, Saskatchewan, Canada. Burner. 1,735,669; Nov. 12.
- Binte, Hans, Berlin-Spandau, assignor to Bama-Meguin A.-G., Berlin, Germany. Screening plant for coke and similar materials. 1,728,657; Sept. 17.
- Binz, Arthur, Berlin, and C. Rätz, Rangsdorf, Kreis Teltow, Germany. Arseno compounds of the pyridine series and making them. 1,702,334; Feb. 19.
- Binz, Gustav A. H., Newark, N. J., assignor to Yarnall-Waring Company, Philadelphia, Pa. Meter insert for heaters. 1,708,301; Apr. 9.
- Biquard, Robert, Neuilly-sur-Seine, France. Device for determining defects in the static and dynamic balances of rotating bodies. 1,740,762; Dec. 24.
- Birch, James H., Geneva, Ill. Vapor-oil heater. 1,737,911; Dec. 3.
- Birch, John E., Detroit, Mich. Enamel drier. 1,737,293; Nov. 26.
- Birchall, Joseph C. (See Caldwell, G. A., and Birchall.)
- Bircher Co., The. (See Keiser, Arthur J., assignor.)
- Bircher, Eugene A., Rochester, N. Y. Combination chopping bowl and cutting board. 1,704,690; Mar. 12.
- Birch-Field, Charles A., Larchmont, N. Y. Condenser. 1,736,823; Nov. 26.
- Birchfield Engineering Company Limited. (See Chisholm, Douglas W., assignor.)
- Birchler, Albert J., Springfield, Mo. Bed-end holder. 1,717,306; June 11.
- Bird, Amos, Company. (See Ekdahl, Edwin A., assignor.)
- Bird, Bertha E., Starks, Me. Jar-cap-removing implement. 1,726,465; Aug. 27.
- Bird, Byron M., Seattle, Wash. Ore classifier. 1,715,693; June 4.
- Bird, Clarence P., assignor to Andersen Lumber Company, Bayport, Minn. Attachment for tenoning machines. 1,708,601; Apr. 9.
- Bird, Eugene H., assignor to The Koppers Company, Pittsburgh, Pa. Removal of naphthalene constituents from gases. 1,729,562; Sept. 24.
- Bird, George H. (See Butcher, J. H., and Bird.)
- Bird, Jesse P. (See Smith, T. S., and Bird.)
- Bird, Lester F., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,739,384; Dec. 10.
- Bird, William T., assignor of one-third to H. L. Stevens, Sheffield, Iowa. Corn-cultivator attachment. 1,708,075; Apr. 9.
- Bird, Willow, Los Angeles, Calif. Lamp shade. Des. 79,619; Oct. 22.
- Birdsall, Edward T., Cleveland, Ohio, assignor to C. H. Butler, Oakland, Calif. Street-cleaning machine. 1,733,523; Oct. 29.
- Birdsall, John M., Toms River, N. J. Adjustable theater chair. 1,712,727; May 14.



- Birdsall, Wilbert S., Hasbrouck Heights, N. J., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold sales book. 1,700,878; Feb. 5.
- Birdsall, Wilfred T. (See Pritchard, W. S., and Birdsall.)
- Birdsall, Wilfred T., Montclair, N. J., assignor to Trans-Lux Daylight Picture Screen Corporation. New York, N. Y. Handling quotations. 1,715,894; June 4.
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Reinforced plaster wall board. 1,710,915; Apr. 30.
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Apparatus for constructing plaster wall board. 1,718,890; June 25.
- Birdsey, Charles R., Hinsdale, assignor to The United States Gypsum Co., Chicago, Ill. Machine for and process of bundling plaster-board units or the like. 1,730,113; Oct. 1.
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Lime-kiln cooling attachment. 1,733,857; Oct. 29.
- Birdsey, Charles R., Hinsdale, and F. A. Manske, Chicago, Ill. Plaster-board-joint reinforcement. 1,740,493; Dec. 24.
- Birdson, James A., and J. L. Showers, Vernon, Tex. Self-serving food cabinet and cooler. 1,717,181; June 11.
- Birdwell, Calvin. (See McCoy, James A., assignor.)
- Birge, M. H., & Sons Co. (See Blake, Ludwig L., assignor.)
- Birkenmaier, Theodore, assignor, by mesne assignments, to W. N. Matthews Corporation, St. Louis, Mo. Spray gun. 1,703,883; Feb. 26.
- Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Paint gun. 1,703,384; Feb. 26.
- Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Disconnecting block. 1,704,961; Mar. 12.
- Birkenmaier, Theodore, St. Louis, Mo., and A. C. Wilson, Atlanta, Ga., assignors to W. N. Matthews Corporation, St. Louis, Mo. Pilot. 1,709,164; Apr. 16.
- Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Spray gun. 1,729,759; Oct. 1.
- Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Reel. 1,733,715; Oct. 29.
- Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Anchor. 1,742,162; Dec. 31.
- Birkett, William E., Peoria, Ill. Sound-reproducing machine. 1,700,397; Jan. 29.
- Birkhead, Claude V. (See Covey, Charles A., assignor.)
- Birkhead, Claude V., et al. (See Crain, Jack R., assignor.)
- Birkigt, Marc, Bois-Colombes, France. Cylinder engine. 1,705,890; Mar. 12.
- Birkigt, Marc, Bois-Colombes, France. Cylinder-block assembly. 1,716,256; June 4.
- Birkmeyer, Paul J. (See Griffith, F., Birkmeyer, and Life.)
- Birkmeyer, Paul J. (See Mason, H., Beardsley, and Birkmeyer.)
- Birmann, Rudolph, assignor to De Laval Steam Turbine Company, Trenton, N. J. Turbine. 1,728,921; Sept. 24.
- Birmingham Electric Furnaces Limited. (See Lobley, Alfred G., assignor.)
- Birmingham, Henry, deceased, Ashland, Mass.; W. J. Birmingham, administrator. Drop-forging hammer. 1,741,811; Dec. 31.
- Birmingham Machine & Foundry Co. (See Franke, Otto, assignor.)
- Birmingham Tank Company. (See Pinckney, Charles C., assignor.)
- Birmingham, Wilfred J., administrator. (See Birmingham, Henry.)
- Birnbach, Ray M., Little Rock, Ark. Sewage-disposal system. 1,708,864; Apr. 9.
- Birnbaum, Charles, Brooklyn, N. Y. Jewelry. 1,731,092; Oct. 8.
- Birnbaum, Charles, New York, N. Y. Ring setting. 1,731,190; Oct. 8.
- Birnie, Steven, Djember, Java, Dutch East Indies, assignor to Fried. Krupp Grusonwerk A. G., Magdeburg, Buckau, Germany. Process and apparatus for stripping the kernels of coffee berries and other similar fruits. 1,737,071; Nov. 26.
- Birns, William. (See De Costa, L., and Birns.)
- Birtman Electric Company. (See Hardin, Ray S., assignor.)
- Birtman Electric Company. (See Wiehle, Edward W., assignor.)
- Birtwell, Archibald. (See Ordway, Ralph F., assignor.)
- Bisbee, Walter G., and B. P. Hoffman, Bristow, Okla. Swab rubber for oil wells. 1,739,385; Dec. 10.
- Biscayne Trust Company et al., executors. (See Gold, E. H., and Russell.)
- Biscayne Trust Company et al., executors. (See Gold, E. H., Manchester, and Russell.)
- Bischitzky, Franz, Aussig-on-the-Elbe, Czechoslovakia. Recovery of tin and its associated metals from alloys, mechanical mixtures, and ores. 1,737,140; Nov. 26.
- Bishinger, Robert, Allison Park, Pa. Hair-curling appliance. 1,718,025; June 18.
- Bishop, Arthur O., Tampa, Fla. Concealed pulley and cord for sashes. 1,707,044; Mar. 26.
- Bishop Babcock Manufacturing Co., The. (See Grelling, David J., assignor.)
- Bishop & Babcock Manufacturing Company, The. (See Levy, Edward J., assignor.)
- Bishop & Babcock Company, The. (See Weatherhead, Edward H., assignor.)
- Bishop and Babcock Manufacturing Company, The. (See Zimmerman, William R., assignor.)
- Bishop, Edward B., Haverhill, Mass. Heel for boots and shoes. 1,741,754; Dec. 31.
- Bishop, Edwin L., Birmingham, England. Creasing cardboard and like material. 1,729,415; Sept. 24.
- Bishop, Franklin L. (See Bishop, Mabel R., and F. L.)
- Bishop, George C., Garden City, N. Y., assignor to The National Lock Washer Company, Newark, N. J. Window construction. 1,703,092; Feb. 26.
- Bishop, George E., Cleveland, Ohio. Bushing for automobile door-curtain rods. 1,708,689; Apr. 9.
- Bishop, James O. (See Grau, W. S., and Bishop.)
- Bishop, James T., Portland, Oreg. Engine. 1,705,894; Mar. 19.
- Bishop, John K., Los Angeles, Calif. Mounting for artificial teeth. 1,720,880; July 16.
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Game table. 1,705,890; Mar. 19.
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Score table. 1,707,505; Apr. 2.
- Bishop, Joseph W., Muskegon Heights, Mich., assignor to The Brunswick-Balke Collender Company, Chicago, Ill. Hinge for toilet seats. 1,734,556; Nov. 5.
- Bishop, Mabel R. and F. L., Cleveland, Ohio. Appliance for dispensing soft and plastic material. 1,700,364; Jan. 29.
- Bishop, Richard E., assignor to F. Thomas, Indianapolis, Ind. Crazy house for amusement parks and the like. Des. 78,727; June 18.
- Bishop, Samuel J., Spartanburg, S. C. Traverse motion. 1,722,173; July 23.
- Bishop, William R. (See Marklein, Otto, assignor.)
- Bising, James M., Jersey City, N. J., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Snowplow. 1,711,488; May 7.
- Bising, James M., Jersey City, N. J., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Snowplow. 1,728,032; Sept. 10.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Coupling for conduit outlet boxes. 1,741,358; Dec. 31.
- Bissell Carpet Sweeper Company. (See Owen, Ira J., assignor.)
- Bissell Carpet Sweeper Company. (See Pullen, Fred W., assignor.)
- Bissell, Richard E., assignor to Thompson Products, Inc., Cleveland, Ohio. Poppet valve. Re17,499; Nov. 26.
- Bissell, Richard E., Cleveland Heights, Ohio, assignor to Thompson Products, Inc. Making valves. 1,699,273; Jan. 15.
- Bissell, Richard E., Cleveland Heights, Ohio, assignor to Thompson Products, Inc. Valve for internal-combustion engines. 1,729,981; Oct. 1.
- Bissell, Robert W., Pittsburgh, Pa., assignor to Western Blind and Screen Company, Los Angeles, Calif. Pulley mounting. 1,737,352; Nov. 26.
- Bissiri, Augusto, Los Angeles, Calif., assignor to General Electric Company. Transmission of pictures. 1,713,213; May 14.
- Bistram, William. (See Miller, N., and Bistram.)
- Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Structural unit. 1,706,558; Mar. 26.
- Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Anchor insert for concrete work. 1,718,402; June 25.
- Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Structural unit. 1,739,573; Dec. 17.
- Bittel, Jacob P. (See Judell, J. S., and Bittel.)
- Bittel, William W., Streator, Ill. Combined smoking stand and humidifier. Des. 79,783; Nov. 5.
- Bitter, Gottlieb. (See Briscoe, E. V., and Bitter.)
- Bitterlick, Walter J. (See Morgan, J. J., Dickinson, and Bitterlick.)
- Bittman, Jesse C., assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Wire-block-stripping mechanism. 1,734,360; Nov. 5.
- Bittner, Christian, Elwood, Oreg. Power-transmitting mechanism. 1,725,328; Aug. 20.
- Bittner, Karl. (See Marx, K., Brodersen, and Bittner.)
- Bittorf, Louis A., assignor to National Manufacturing Company, Sterling, Ill. Door-bolt fixture. 1,723,007; Aug. 6.
- Biya, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 77,519; Jan. 22.
- Biya, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 77,520; Jan. 22.
- Biya, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 77,521; Jan. 22.
- Biya, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 77,522; Jan. 22.
- Biya, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 77,523; Jan. 22.
- Biya, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,141; Apr. 2.



- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,142; Apr. 2.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,143; Apr. 2.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,144; Apr. 2.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,145; Apr. 2.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,146; Apr. 2.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,328; Apr. 23.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,329; Apr. 23.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,330; Apr. 23.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,331; Apr. 23.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 78,332; Apr. 23.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 80,072; Dec. 10.
- Biva, Lucien, Brooklyn, N. Y., assignor to Pennsylvania Textile Mills, Inc., Clifton, N. J. Textile fabric. Des. 80,073; Dec. 10.
- Bixby, Walter. (See Hathaway, E. F., and Bixby.)
- Bixel, Samuel S., Bluffton, Ohio. Harrow. 1,707,384; Apr. 2.
- Bixler, Thurman J., Hutchinson, Kans. Cooling and dispensing cabinet. 1,711,581; May 7.
- Bizet, Gaston, New York, N. Y. Outboard motor. 1,707,897; Apr. 2.
- Bjerre, Siliam, Skive, Denmark. Grinding mill. 1,697,750; Jan. 1.
- Bjerregaard, August P., Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y. Utilizing petroleum hydrocarbons. 1,723,008; Aug. 6.
- Bjerregaard, August P., Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y. Production of hydrocarbons from oil shale. 1,732,219; Oct. 22.
- Bjorge, Guy N., et al. (See Simpson, Hiram R., assignor.)
- Bjorge, Oscar B., Portland, Oreg., assignor to Clyde Iron Works, Duluth, Minn. Block for trip lines and the like. 1,713,864; May 21.
- Bjorkholm, John E., Milwaukee, Wis., and G. Blyberg, Minneapolis, Minn. Smoke-abatement nozzle. 1,726,802; Sept. 3.
- Bjornson, Ingvar B., New Kensington, assignor to The Aluminum Company of America, Pittsburgh, Pa. Cooking vessel. 1,736,479; Nov. 19.
- Blabon, George W., Company, The. (See Cartwright, Frank, assignor.)
- Blabon, Geo. W., Company, The. (See Dearden, Edward C., assignor.)
- Blach, Harold B., Louisville, Ky. Bow necktie and forming the same. 1,737,072; Nov. 26.
- Blache, Antoinette. (See Clinch, D., and Blache.)
- Blacher, Joseph, et al. (See Burgess, Pearl M., assignor.)
- Black, Charles A., and W. S. Thibault, Cleveland, Ohio. Loom clamp for wall boxes. 1,708,827; Apr. 9.
- Black, Charles O., New Castle, and W. A. Moore, New Wilmington, Pa., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive. 1,713,816; May 21.
- Black-Clawson Company, The. (See Bridge, Adam E., assignor.)
- Black-Clawson Company, The. (See Harvey, George H., assignor.)
- Black-Clawson Company, The. (See Kutter, Herman L., assignor.)
- Black, Corydon W., Council Grove, Kans. Loud-speaker. 1,716,615; June 11.
- Black & Decker Manufacturing Company, The. (See Black, S. D., and Decker, assignors.)
- Black and Decker Manufacturing Company, The. (See Decker, Alonzo G., assignor.)
- Black & Decker Manufacturing Company, The. (See Fleming, Jared B., assignor.)
- Black & Decker Manufacturing Company, The. (See Stumpf, Walter, assignor.)
- Black, Emma E., administratrix. (See Burnett, John W.)
- Black, Frederick L. (See Mackey, D. E., and Black.)
- Black, Harold S., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voice-frequency calling system. 1,709,554; Apr. 16.
- Black, Horace D., London, assignor to The Bell Punch & Printing Co. Ltd., Uxbridge, Middlesex, England. Inking apparatus of printing machines. 1,732,078; Oct. 15.
- Black, Horace D., London, assignor to The Bell Punch & Printing Co., Ltd., Uxbridge, Middlesex, England. Inking apparatus of printing machines. 1,732,079; Oct. 15.
- Black, Horace D., London, assignor to The Bell Punch & Printing Co. Limited, Uxbridge, Middlesex, England. Inking apparatus of printing machines. 1,733,716; Oct. 29.
- Black, John C., Destrehan, La. Cracking oil. 1,715,980; June 4.
- Black, John C., Destrehan, La. Process and apparatus for the vacuum distillation of hydrocarbons. 1,717,002; June 11.
- Black, John C., Destrehan, La. Cracking oil in liquid phase. 1,720,070; July 9.
- Black, John C., assignor to Pan American Petroleum Company, Los Angeles, Calif. Treating petroleum oils. 1,704,588; Mar. 5.
- Black, John C., Destrehan, La., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Process and apparatus for the treatment of hydrocarbons. 1,706,396; Mar. 26.
- Black, John C., Destrehan, La., assignor by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Heating oils. 1,708,076; Apr. 9.
- Black, John C., Los Angeles, Calif., assignor, by mesne assignments, to Contact Filtration Company, San Francisco, Calif. Apparatus for treating clay. 1,731,702; Oct. 15.
- Black, John C., Los Angeles, assignor, by mesne assignments, to Contact Filtration Company, San Francisco, Calif. Apparatus for clarifying and decolorizing petroleum oil. 1,734,959; Nov. 12.
- Black, John C., and W. D. Rial, assignors to Pan American Petroleum Company, Los Angeles, Calif. Coating roofing felt. 1,714,206; May 21.
- Black, John C., Destrehan, La., and J. W. Weir, Fillmore, Calif. Refining hydrocarbons. 1,709,518; Apr. 16.
- Black, John C., Destrehan, La., and W. D. Rial, Los Angeles County, assignors to Pan American Petroleum Company, Los Angeles, Calif. Apparatus for oxidizing hydrocarbon oils. 1,718,673; June 25.
- Black, John C., and M. L. Chappell, assignors to Pan American Petroleum Company, Los Angeles, Calif. Treating hydrocarbons. 1,710,143; Apr. 23.
- Black, John C., and M. L. Chappell, assignors to Pan American Petroleum Company, Los Angeles, Calif. Treating hydrocarbon oils. 1,710,200; Apr. 23.
- Black, John C., and M. L. Chappell, assignors to Pan American Petroleum Company, Los Angeles, Calif. Purifying hydrocarbons. 1,710,201; Apr. 23.
- Black, John C., Destrehan, La., and W. D. Rial and R. T. Howes, Wilmington, assignors to Pan American Petroleum Company, Los Angeles, Calif. Purifying petroleum oils. 1,709,203; Apr. 16.
- Black, John C., Destrehan, La., W. D. Rial, Los Angeles County, and J. R. McConnell, Whittier, assignors to Pan American Petroleum Company, Los Angeles, Calif. Imparting fluorescence to oil. 1,708,563; Apr. 9.
- Black, John C., Destrehan, La., W. D. Rial, Los Angeles County, and J. R. McConnell, Whittier, assignors to Pan American Petroleum Company, Los Angeles, Calif. Removing acid reaction products from oil. 1,725,611; Aug. 20.
- Black, John C., Destrehan, La., W. D. Rial, Los Angeles County, and J. R. McConnell, Whittier, assignors to Pan American Petroleum Company, Los Angeles, Calif. Removing acid reaction products from oil. 1,725,612; Aug. 20.
- Black, John C., Los Angeles, W. D. Rial, Los Angeles County, and J. R. McConnell, Whittier, assignors to Pan American Petroleum Company, Los Angeles, Calif. Making a fluorescent product. 1,708,602; Apr. 9.
- Black, John E., Mendota, Ill. Veneer-gluing machine. 1,698,185; Jan. 8.
- Black, Jotham F., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for annealing glassware. 1,703,073; Feb. 19.
- Black, Kermit F., Ottawa, Ontario, Canada. Funnel. 1,727,195; Sept. 3.
- Black, Lee J., Beaumont, Tex. Fluid-circulation unit for pumps. 1,705,216; Mar. 12.
- Black, Lee J., Beaumont, Tex. Fishing tool for oil wells. 1,707,072; Mar. 26.
- Black, Lee J., Beaumont, Tex. Valve. 1,707,073; Mar. 26.
- Black, Lee J., Beaumont, Tex. Oil-well pump. 1,723,992; Aug. 13.
- Black, Lee J., Beaumont, Tex. Oil-well pump. 1,723,993; Aug. 13.
- Black, Lester C., Los Angeles, Calif. Flexible multistage deep-well pump plunger. 1,721,245; July 16.
- Black, Mae V., Wilkes-Barre, Pa. Hat rest. 1,721,330; July 16.
- Black, Merle L. (See Fentress, G. E., Bane, and Black.)
- Black, Millard S. (See McCullough, I. J., and Black.)
- Black, Paul T., Dormont, Pa. Scale-removing apparatus. 1,709,111; Apr. 16.
- Black Products Company. (See Lorimer, George W., assignor.)
- Black, Robert J., Hammond, Ind., assignor to Sinclair Refining Company, Chicago, Ill. Converting heavier oils into lighter oils. 1,737,634; Dec. 3.
- Black Rock Manufacturing Company, The. (See Hammond, G. L., and Messinger, assignors.)
- Black, Russell, Huntington, W. Va. Siphon. 1,703,469; Feb. 26.
- Black, Samuel D., and A. G. Decker, Baltimore County, assignors to The Black & Decker Manufacturing Company, Towson, Md. Portable tool. 1,699,870; Jan. 22.



- Black, Samuel D., and A. G. Decker, Baltimore County, assignors to The Black & Decker Manufacturing Company, Towson, Md. Electrical connection for portable electric tools. 1,702,245; Feb. 19.
- Black, Sivalis & Bryson Manufacturing Company. (See Raymond, Gwynne, assignor.)
- Black, William A., Montclair, N. J., assignor to Lumindex Corporation. Electric candle. 1,725,048; Aug. 20.
- Black, William A., Montclair, N. J., assignor to Lumindex Corporation. Electric candle. 1,736,820; Nov. 26.
- Black, William C., Dudley, England, assignor to M. S. Moore, Brussels, Belgium. Coal-cutting machine and the like. 1,730,755; Oct. 8.
- Black, William G., Cleveland, assignor to The Cast Steel Devices Company, Lima, Ohio. Ash pan. 1,731,811; Oct. 15.
- Black, William S., Norwalk, Calif. Pumping device. 1,707,751; Apr. 2.
- Black, Willy. (See Kruckenberg, F., and Black.)
- Blackburn, Fred J. (See Cornwell, V. O., and Blackburn.)
- Blackburn, Fred J., assignor to The Federal Glass Company, Columbus, Ohio. Tumbler or article of similar nature. Des. 79,416; Sept. 17.
- Blackburn, George S., Nottingham, England. Cam mechanism applicable to knitting machines. 1,730,054; Oct. 1.
- Blackburn, Jasper, Webster Groves, Mo. Cable clamp. 1,699,830; Jan. 22.
- Blackburn, Jasper, Webster Groves, Mo. Guy-strand guard. 1,709,556; Apr. 16.
- Blackburn, Jasper, Webster Groves, Mo. Shifting device. 1,709,557; Apr. 16.
- Blackburn, Jasper, Webster Groves, Mo. Preselector. 1,709,558; Apr. 16.
- Blackburn, Jasper, Webster Groves, Mo. Sliding gear transmission and operating the same. 1,724,000; Aug. 13.
- Blackburn, Jasper, Webster Groves, Mo. Monolithic steering wheel for automobiles. 1,724,001; Aug. 13.
- Blackburn, Jasper, Webster Groves, and A. Albrecht and H. J. Peele, St. Louis, Mo.; said Albrecht and said Peele assignors to said Blackburn. Insulator support. 1,709,555; Apr. 16.
- Blackburn, Merrill M. (See Roushar, J. C., Koutnik, and Blackburn.)
- Blackburn, Monroe S., Athens, Ala. Singletree. 1,697,901; Jan. 8.
- Blackburn, William A., Pulaski, Va. Automobile heating device. 1,703,025; Feb. 19.
- Blackburn, William N., Drexel Hill, Pa. Flue-wall facing. 1,712,685; May 14.
- Blackford, Gilbert V., Independence, Kans. Awning for automobile doors. 1,703,054; Feb. 19.
- Blackford, Gilbert V., assignor of one-half to W. R. Hobbs, Independence, Kans. Awning for automobile doors. Re17,352; July 30.
- Blackford Window Glass Company. (See Dognaux, Rene J., assignor.)
- Blackinton, R., & Co. (See Ballou, Howard M., assignor.)
- Blackman, Albert E., Mount Vernon, N. Y. Radiator cover. 1,709,559; Apr. 16.
- Blackman, Albert E., Mount Vernon, N. Y. Mail box. 1,709,560; Apr. 16.
- Blackman, Albert E., Mount Vernon, N. Y. Door of metallic cabinet and catch therefor. 1,718,026; June 18.
- Blackman, Albert E., Mount Vernon, N. Y. Protective switch box. 1,731,812; Oct. 15.
- Blackman, Albert E., Mount Vernon, N. Y. Positive switch box. 1,731,919; Oct. 15.
- Blackman, Horace L., Janesville, Wis., assignor, by mesne assignments, to Pen Desk Set Company. Holder for fountain pens. Re17,282; Apr. 23.
- Blackman, Horace L., Janesville, Wis., assignor, by mesne assignments, to Pen Desk Set Company. Holder for fountain pens. 1,705,656; Mar. 19.
- Blackman, Reed J., Stover, Mo. Toy gun for projecting rubber bands. 1,707,045; Mar. 26.
- Blackmon, Dewitt T., Columbia, S. C. Tire-handling machine. 1,697,708; Jan. 1.
- Blackmore, Charles C., Dayton, Ohio. Oil filter. 1,701,556; Feb. 12.
- Blackmore, Charles C., Dayton, Ohio. Radio apparatus. 1,716,538; June 11.
- Blackmore, Charles C., Dayton, Ohio. Toy dump wagon. 1,731,040; Oct. 8.
- Blackmore, Lloyd. (See Doane, H. C., and Blackmore.)
- Blackmore, Lloyd, Highland Park, Mich. Ash-ejector tube. 1,707,752; Apr. 2.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Lamp. 1,697,804; Jan. 1.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Vehicle heater. 1,697,805; Jan. 1.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Illuminated instrument panel. 1,697,806; Jan. 1.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Making spark plugs. 1,701,401; Feb. 5.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Horn-button switch. 1,734,004; Oct. 29.
- Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Switch construction. 1,733,755; Dec. 10.
- Blackmore, Lloyd, Highland Park, and F. E. Jones, assignors to General Motors Corporation, Detroit, Mich. Brake. 1,711,011; Apr. 30.
- Blackmore, Lloyd, Highland Park, Mich., and M. W. McConkey, South Bend, Ind., assignors to General Motors Corporation, Detroit, Mich. Automobile shipping device. 1,697,807; Jan. 1.
- Blackstock, Gibbs, Toronto, Ontario, Canada. Change-gear device. 1,728,325; Sept. 17.
- Blackstock, Gibbs, Toronto, Ontario, Canada. Change-gear device. 1,733,002; Oct. 22.
- Blackstone, Moses G., Detroit, Mich. Cabinet. 1,733,935; Oct. 29.
- Blackstone Silver Company. (See Ittig, George P., assignor.)
- Blackwell, Otto B., Plandome, N. Y., and M. E. Strieby, Millburn, N. J., assignors to American Telephone and Telegraph Company. Carrier-amplitude-control system. 1,719,041; July 2.
- Blackwell, Sanford J., assignor to C. Benning, Atlanta, Ga. Bottle cap. 1,739,348; Dec. 10.
- Blaetz, George I. (See Houseman, W. L., and Blaetz.)
- Blagden, John W., London, assignor of one-half to Howards & Sons Limited, Ilford, England. Manufacture of hydrogenated alkaloids. 1,720,462; July 9.
- Blaich, Richard, assignor to Speidel Chain Co., Providence, R. I. Chain. 1,702,335; Feb. 19.
- Blain, Daniel, Nashville, Tenn. Liquid-shaking apparatus. 1,739,349; Dec. 10.
- Blain, Severin F., Jersey City, N. J. Tube-packing apparatus for condensers. 1,719,420; July 2.
- Blaine, John E., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Filing tray. 1,740,424; Dec. 17.
- Blaine, Joseph R., Oak Park, assignor to C. E. Wheeler, Chicago, Ill. Folding and automatically-closing desk element. 1,723,324; Aug. 6.
- Blaine, Joseph R., Oak Park, assignor to The Miehle Printing Press & Manufacturing Company, Chicago, Ill. Plate clamp. 1,725,779; Aug. 27.
- Blair, Emil, et al. (See Rider, Herbert E., assignor.)
- Blair, Ethelbert W. (See Reilly, J., and Blair.)
- Blair, George O., Denver, Colo. Hose clamp. 1,705,895; Mar. 19.
- Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Shoe sole. Des. 78,502; May 14.
- Blair, George W., assignor to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind. Fastener. 1,712,976; May 14.
- Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Fastening device. 1,720,314; July 9.
- Blair, George W., assignor to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind. Lock for quick-operating fasteners. 1,721,144; July 16.
- Blair, George W., assignor to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind. Waterproof seam and making same. 1,725,749; Aug. 27.
- Blair, George W., assignor to Mishawaka Rubber & Woolen Manufacturing Company, Mishawaka, Ind. Making fastener elements. 1,730,553; Oct. 8.
- Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Fastening device. 1,732,787; Oct. 22.
- Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Automatic fastener. 1,739,500; Dec. 17.
- Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Slider-operated fastener and means for assembling and aligning the elements. 1,740,763; Dec. 24.
- Blair, Harry J. (See Sawers, T. C., and Blair.)
- Blair, James C., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Process and apparatus for producing sheet glass. 1,729,147; Sept. 24.
- Blair, James C., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Sheet glass forming apparatus. 1,735,595; Nov. 12.
- Blair, Mark L., assignor to A C Spark Plug Company, Flint, Mich. Air cleaner. 1,712,947; May 14.
- Blair, Robert S., Stamford, Conn. Bowling-pin construction. 1,705,280; Mar. 12.
- Blair, Robert S., Stamford, Conn. Fluid temperature control. 1,707,109; Mar. 26.
- Blair, Robert S., Stamford, Conn. Construction for motor-vehicle fenders. 1,719,646; July 2.
- Blair, Robert S., Stamford, Conn. Bowling-game apparatus. 1,722,784; July 30.
- Blair, Robert S., Stamford, Conn. Windshield-cleaning device. 1,729,025; Sept. 24.
- Blair, Robert S., Stamford, Conn. Art of and apparatus for ventilation. 1,731,289; Oct. 15.
- Blair, Robert S., Stamford, Conn. Telescope construction. 1,734,284; Nov. 5.
- Blair, Robert S., Stamford, Conn. Moving-picture apparatus. 1,740,677; Dec. 24.
- Blair, Robert S., Stamford, Conn., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,726,466; Aug. 27.
- Blair, Robert S., Stamford, Conn., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,726,467; Aug. 27.
- Blair, Robert S., Stamford, and B. D. Wells, Danbury, Conn., said Wells assignor to said Blair. Track-gauging apparatus. 1,703,289; Feb. 26.



- Blair, Robert S., Sound Beach, and B. D. Wells, Danbury, Conn.; said Wells assignor to said Blair. Sound-reproducing apparatus. 1,717,087; June 11.
- Blair, Rolandis A., Fort Wayne, Ind. Rail anchor. 1,698,986; Jan. 15.
- Blair, Thomas S., Brooklyn, assignor to Doherty Research Company, New York, N. Y. Fluid-cooled valve and valve seat. 1,731,222; Oct. 8.
- Blair, Vilray P., St. Louis, Mo. Skin-graft surgical instrument. 1,736,246; Nov. 19.
- Blair, William M. (See Halvorsen, O., and Seibels, assignors.)
- Blaisdell, Harrison O., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,698,426; Jan. 8.
- Blaisdell, Herbert E., Boston, Mass., assignor to W. J. Sandberg, Chicago, Ill. Collapsible loop antenna for radio apparatus. 1,721,101; July 16.
- Blaisdell, Sidney B., Philadelphia, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Braiding machine. 1,737,405; Nov. 26.
- Blaisdell, Sidney B., Philadelphia, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Thread-controlling mechanism for braiding machines. 1,742,124; Dec. 31.
- Blaisdell, Sidney B., Philadelphia, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Thread-controlling mechanism for braiding machines. 1,742,125; Dec. 31.
- Blaisdell, Sidney B., Philadelphia, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Braiding machine. 1,742,126; Dec. 31.
- Blaiser, George F., assignor to Buffalo Bolt Company, North Tonawanda, N. Y. Overhead heating furnace and burner therefor. 1,703,706; Feb. 26.
- Blake, Arthur J., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Attachment plug cap. 1,730,554; Oct. 8.
- Blake, Benjamin F., Marion, Ohio. Flowerpot cover. 1,697,751; Jan. 1.
- Blake, C. C., Incorporated. (See Fernald, Mark E., assignor.)
- Blake, Eli J., Westfield, N. J., assignor, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa. Train-control system. 1,710,495; Apr. 23.
- Blake, Eli J., Buffalo, assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Battery-charging system. 1,716,292; June 4.
- Blake, Ernest E., Coburg, Victoria, assignor, by mesne assignments, to Animated-Ads (A/Sia) Proprietary Limited, Melbourne, Australia. Machine for displaying advertising matter. 1,741,092; Dec. 24.
- Blake, Frank C., deceased, by R. L. Blake, administratrix, assignor to Lazote Inc., Wilmington, Del. Producing hydrogen. 1,713,325; May 14.
- Blake, George W., assignor to George W. Blake Manufacturing Co., Wyandotte, Mich. Jolt packing machine. 1,739,707; Dec. 17.
- Blake, George W., Manufacturing Co. (See Blake, George W., assignor.)
- Blake, Howard J., Boston, Mass. Matrix board. 1,699,579; Jan. 22.
- Blake, Joseph E., Gardner, Mass. Sled. 1,742,127; Dec. 31.
- Blake, Ludwig L., South Bend, Ind., assignor to M. H. Birge & Sons Co., Buffalo, N. Y. Wall paper. Des. 77,388; Jan. 8.
- Blake Manufacturing Co. (See Shannon, James L., assignor.)
- Blake, Michael J., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Molding inner tubes. 1,727,391; Sept. 10.
- Blake, Robert S., and A. L. Fabens, assignors to The Buckeye Aluminum Company, Wooster, Ohio. Forming utensils. 1,728,033; Sept. 10.
- Blake, Roberta L., administratrix. (See Blake, Frank C.)
- Blake, Warren H., Los Angeles, Calif. Invalid carrier or bag. 1,711,167; Apr. 30.
- Blake, William J., Buffalo, N. Y. Device for swinging double-hung windows. 1,736,962; Nov. 26.
- Blakely, Richard M. (See Mueller, M., and Blakely.)
- Blakely, Wilbur A., Grant Center, Iowa. Grain door for elevators. 1,728,851; Sept. 17.
- Blakely, William H., Tulsa, Okla. Combined valve, anchor, and packer. 1,719,582; July 2.
- Blakely, William W. (See Goodspeed, Charles A., assignor.)
- Blakely, William W., Detroit, Mich. Wheel block. 1,712,644; May 14.
- Blakely, William W., Detroit, Mich. Wheel block. 1,712,645; May 14.
- Blakely, William W., Dexter, Mich. Railway-car construction. 1,724,555; Aug. 13.
- Blakely, William W., Dexter, Mich. Vehicle shipping apparatus. 1,724,556; Aug. 13.
- Blakeman, Benjamin F., and A. W. Craver, Greensboro, N. C.; said Blakeman assignor to said Craver. Copy-holder. 1,701,354; Feb. 5.
- Blaker, Ernest, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Steam-heated tube-splicing mandrel. 1,707,794; Apr. 2.
- Blaker, Ernest, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hose-vulcanizing method and apparatus. 1,730,639; Oct. 8.
- Blakeslee, G. S., & Co. (See Anstiss, George P., assignor.)
- Blakeslee, G. S., & Co. (See Blakeslee, G. S., and Anstiss, assignors.)
- Blakeslee, George R. (See Blakeslee, George S.)
- Blakeslee, George R., executor. (See Blakeslee, G. S., and Anstiss.)
- Blakeslee, George S., Oak Park, Ill., deceased; G. R. Blakeslee, executor. Washing machine. 1,711,221; Apr. 30.
- Blakeslee, George S., deceased, G. R. Blakeslee, executor, and G. P. Anstiss, Oak Park; said George S. Blakeslee and Anstiss assignors to G. S. Blakeslee & Co., Cicero, Ill. Paddle for washing machines. 1,697,301; Jan. 1.
- Blakeslee, George S., and G. P. Anstiss, Oak Park, assignors to G. S. Blakeslee & Co., Cicero, Ill. Dishwashing machine. 1,712,728; May 14.
- Blakeslee, Henry J., West Hartford, Conn. Synchronous motor. 1,709,055; Apr. 16.
- Blakeslee, Henry J., Marlboro, Conn. Testing switch. 1,725,049; Aug. 20.
- Blakeslee, John R., Willoughby, assignor to The Ajax Manufacturing Company, Euclid, Ohio. Reclaiming car axles. 1,739,119; Dec. 10.
- Blakeslee, Orrin C., Compton, Calif. Rotary bailer. 1,740,449; Dec. 24.
- Blakeslee, Victor F. (See Beck, J. G., and Blakeslee.)
- Blakesley, George W., assignor to The Security Stove & Mfg. Co., Kansas City, Mo. Oil burner. 1,724,337; Aug. 13.
- Blalack, Jacob L., Los Angeles, Calif. Circuit-controlling device. 1,734,071; Nov. 5.
- Blalack, Jacob L., Los Angeles, Calif. Towline. 1,734,072; Nov. 5.
- Blalack, Jacob L., Los Angeles, Calif. Earthquake-operated safety automatic circuit breaker. 1,737,105; Nov. 26.
- Blanc, David W., assignor, by mesne assignments, to The Kingsley-Miller Company, Chicago, Ill. Combination radiator cap and motometer holder. 1,707,344; Apr. 2.
- Blancard, Christian R., assignor to Blancard & Co., Inc., New York, N. Y. Finger ring. Des. 79,277; Aug. 27.
- Blancard, Christian R., assignor to Blancard & Co., Inc., New York, N. Y. Finger ring. Des. 79,278; Aug. 27.
- Blancard & Co. (See Blancard, Christian R., assignor.)
- Blancard & Co. (See Mountford, Thomas, assignor.)
- Blancard & Co. (See Mountford, Thomas A., assignor.)
- Blancato, Michele, Paris, France, assignor to Kent-Blancato Company, Inc. Coating composition. 1,709,056; Apr. 16.
- Blanchard, Adna F., Tampa, Fla. Spring cover. 1,740,804; Dec. 24.
- Blanchard, Adna F., assignor to G. C. Seaton, New York, N. Y. Hydraulic shock absorber. 1,733,395; Oct. 29.
- Blanchard, Arthur A., Brookline, Mass. Process and apparatus for maintaining complete combustion. 1,720,757; July 16.
- Blanchard, Frederick C. (See Standish, Edward K., assignor.)
- Blanchard, Frederick C., Dorchester, Mass. Lubricating apparatus. 1,701,907; Feb. 12.
- Blanchard, Frederick C., Dorchester, Mass. Conduit structure. 1,713,640; May 21.
- Blanchard, Frederick C., Boston, Mass. Lubricating device. 1,707,704; Apr. 2.
- Blanchard, Frederick C., Dorchester, and T. S. Ross, Cambridge, assignors to Rivett Lathe and Grinder Corporation, Boston, Mass. Bench lathe structure. 1,717,431; June 18.
- Blanchard, George N. (See Veitch, E. I., and Blanchard.)
- Blanchard, Harold F., Tuckahoe, N. Y. Brake mechanism. 1,707,781; Apr. 2.
- Blanchard, Harold L. (See Paine, A. P., and Blanchard.)
- Blanchard, Harold L., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom for weaving terry fabrics of different heights. 1,739,205; Dec. 10.
- Blanchard, Kirk S., Holley, N. Y. Ventilating attachment for water-closets. 1,706,021; Mar. 19.
- Blanchard, Lester L., Presque Isle, Me., assignor to Chimney Perfector Company, Limited, Ottawa, Canada. Chimney. 1,700,018; Jan. 22.
- Blanchard Machine Company, The. (See Spencer, Henry K., assignor.)
- Blanchard, Nathan W., Investment Company. (See Warner, Joy M., assignor.)
- Blanchard, Sophie S., Salt Lake City, Utah. Portable electric-light therapeutic apparatus. 1,702,028; Feb. 12.
- Blanchard, William R., Bremen, Ohio. Position indicating and communicating device for submerged craft. 1,726,607; Sept. 3.
- Blanchet, Joseph, Lawrence, Mass. Submarine safety device. 1,738,093; Dec. 3.
- Bland, Charles C., Steger, Ill. Fresh-air bed. 1,720,621; July 9.
- Bland, John, Chicago, Ill. Separating mica. 1,716,758; June 11.
- Bland, John P. (See Reck, Joseph A., assignor.)
- Blandford, Alsace S., Elmira, N. Y. Wall-board-handling device. 1,725,329; Aug. 20.
- Blanding, Robert L., Providence, R. I., assignor to Taco Heaters Incorporated, New York, N. Y. Water heater. 1,717,490; June 18.
- Blank, Wilhelm, Plauen, Germany. Musical instrument. 1,737,910; Dec. 3.
- Blankenship, Casper E., Williamson, W. Va. Cab signal. 1,700,019; Jan. 22.



- Blankenship, Earl P., and E. W. Bell, Seminole, Okla. Line saver and restrainer for drilling cables. 1,728,915; Sept. 24.
- Blankenship, Lonnie H. (See Fowler, M. J., Harmon, and Blankenship.)
- Blankenship, Wayne J., assignor to M. S. Cohen, Los Angeles, Calif. Oil-well pump. 1,741,913; Dec. 31.
- Blankenship, William A., Taylorsville, N. C. Railway-crossing signal. 1,733,717; Oct. 29.
- Blasco, León E., and A. M. Achan y Portillo, Habana, Cuba. Planting machine. 1,726,139; Aug. 27.
- Blasek, William, and J. Borisch, Cincinnati, Ohio. Heater. 1,700,482; Jan. 29.
- Blaser, Allen B., Chicago, Ill. Form clamp. 1,698,931; Jan. 15.
- Blaser, William H., Taylor Ridge, Ill. Rural mail box. 1,714,543; May 28.
- Blaskewitz, William, and J. Ironside, assignors to Clayton & Lambert Manufacturing Company, Detroit, Mich. Handle structure for torch tanks. 1,706,648; Mar. 26.
- Blaskewitz, William, and C. B. Overly, Detroit, C. F. Lambert, Grosse Pointe, and J. Ironside, assignors, by mesne assignments, to Clayton & Lambert Manufacturing Company, Detroit, Mich. Stove structure. 1,735,151; Nov. 12.
- Blaski, Aloysious R., Chicago, Ill. Automatic lock for shutter-operating mechanism. 1,715,274; May 28.
- Blaski, Benjamin F., Chicago, Ill. Skylight operator. 1,724,123; Aug. 13.
- Blatch, Francis H., assignor to Wilmot Engineering Company, Hazleton, Pa. Coal jig. 1,728,196; Sept. 17.
- Blatch, Francis H., Hazleton, and H. L. McLean and W. C. Menzies, Scranton; said Blatch and McLean assignors to Wilmot Engineering Company, Hazleton, Pa. Coal-washing apparatus. 1,714,492; May 28.
- Blatchford Calf Meal Company. (See Blows, Wilbur L., assignor.)
- Blatchford Calf Meal Company. (See Ward Jerome, assignor.)
- Bláthy, Otto T., Budapest, Hungary. Rotating field magnet for turbogenerators. 1,703,810; Feb. 26.
- Bláthy, Otto T., Budapest, Hungary. Rotating field magnet for turbogenerators. 1,704,589; Mar. 5.
- Blatterman, Albert S., Ashbury Park, assignor, by mesne assignments, to B. M. C. Patent Company, Trenton, N. J. Coupling radio-frequency amplifier. 1,713,462; May 14.
- Blatterman, Albert S., North Asbury Park, assignor, by mesne assignments, to B. M. C. Patent Company, Trenton, N. J. Operating a tuned radioreceiver. 1,713,463; May 14.
- Blatterman, Albert S., North Asbury Park, assignor, by mesne assignments, to B. M. C. Patent Company, Trenton, N. J. Radio condenser system and adjusting the same. 1,713,464; May 14.
- Blattner, Chester M., Rochester, N. Y. Game apparatus. 1,702,246; Feb. 19.
- Blatz, Albert, jr., Milwaukee, Wis., assignor, by mesne assignments, to Burton-Page Company. Milking machine. 1,698,987; Jan. 15.
- Blau, Ernst, Berlin, Germany. Surface plate for wheel lathes. 1,725,330; Aug. 20.
- Blau, Ernst, Berlin, Germany. Surface plate for wheel lathes. 1,725,331; Aug. 20.
- Blau, Ernst, Berlin, Germany. Stop for locating work in machine tools. 1,735,694; Nov. 19.
- Blaufeld, Morris, Brooklyn, N. Y. Folded safety fire escape. 1,723,129; Aug. 6.
- Blaukowitz, John, Allentown, Pa. Wire article. 1,719,583; July 2.
- Blauvelt, Frederic D. (See Pendleton, A. B., and Blauvelt.)
- Blaw, Jacob B., deceased, Atlantic City, N. J.; S. H. Blaw, executrix. Fire apparatus. 1,715,981; June 4.
- Blaw-Knox Company. (See Andrews, Roger W., assignor.)
- Blaw-Knox Company. (See Boyrie, Harry E., assignor.)
- Blaw-Knox Company. (See Bradshaw, Grant D., assignor.)
- Blaw-Knox Company. (See Dyrssen, Waldemar, assignor.)
- Blaw-Knox Company. (See Menzin, Abraham L., assignor.)
- Blaw-Knox Company. (See Rawley, Wayne, assignor.)
- Blaw-Knox Company. (See Rawley, W., and Pluskey, assignors.)
- Blaw-Knox Company. (See Robinson, George L., assignor.)
- Blaw-Knox Company. (See Venable, William M., assignor.)
- Blaw-Knox Company. (See Woodruff, W. W., Jenner, and Reeves, assignors.)
- Blaw, Sadie H., executrix. (See Blaw, Jacob B.)
- Blazer, Oscar R., Turkey Knob, W. Va. Control switch for driving lights of automobiles. 1,709,653; Apr. 16.
- Beakley, Charles, New York, N. Y. Plate-glass holder. 1,706,345; Mar. 19.
- Blecha, Edward, Humboldt, Nebr. Harness construction. 1,734,195; Nov. 5.
- Blechschildt, Wilfred E., Sacramento, Calif. Signaling device. 1,708,564; Apr. 9.
- Blechspielwarenfabrik Johann Distler. (See Zick, Konrad, assignor.)
- Bledsoe, Carl F., assignor to Ogle Construction Co., Chicago, Ill. Emergency stop mechanism for hoists. 1,716,025; June 4.
- Bledsoe, Carl F., assignor to Ogle Construction Co., Chicago, Ill. Elevated tramway. 1,721,634; July 23.
- Bledsoe, Henry J., Brownsville, Tenn. Mail box. Des. 77,523; Jan. 22.
- Bleek, William A. F., South Brisbane, Queensland, Australia. Primary battery. 1,699,580; Jan. 22.
- Bleecker, Edsel T., Pueblo, Colo. Box or similar receptacle. Des. 77,524; Jan. 22.
- Bleecker, Edsel T., Pueblo, Colo. Chair. Des. 77,876; Mar. 5.
- Bleecker, Edsel T., Pueblo, Colo. Rocker. Des. 80,103; Dec. 17.
- Bleecker, Etta M., Amityville, N. Y. Liquid container. 1,700,623; Jan. 29.
- Bleecker, Warren F., Boulder, Colo. Preparing luminous surfaces. 1,718,626; June 25.
- Bleecker, Warren F., Boulder, Colo. Composite material. 1,718,627; June 25.
- Bleher, William C., F. E. Willis, and R. A. Wentworth, assignors to Hood Rubber Company, Watertown, Mass. Tube-wrapping lathe. 1,711,556; May 7.
- Bleher, William C., F. E. Willis, and R. A. Wentworth, assignors to Hood Rubber Company, Watertown, Mass. Mandrel-conveying means. 1,711,557; May 7.
- Bleicher, Clarence E. (See Riker, F. J., and Bleicher.)
- Blem, Emil C., Hellerup, near Copenhagen, Denmark. Automatic switch. 1,735,845; Nov. 19.
- Blenio, Guido, deceased, New York, N. Y.; P. Blenio, administratrix. Fire-extinguishing compound. 1,707,597; Apr. 2.
- Blenio Pauline, administratrix. (See Blenio, Guido.)
- Blenz, Martin, Bronx, N. Y. Milk-boiler inset. 1,719,042; July 2.
- Blériot, Louis, Paris, France. Aerial advertising and signaling device. 1,727,095; Sept. 3.
- Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Des. 78,874; July 2.
- Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Corner piece for burial caskets. Des. 78,875; July 2.
- Blessing, John G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Impulse-transmitting device. 1,715,157; May 28.
- Blevens, Emmet, Louisville, Ky. Artificial limb. 1,732,220; Oct. 22.
- Blewett, Arthur R., Chicago, Ill., assignor to International Harvester Company. Feeder construction for harvester thrashers. 1,740,723; Dec. 24.
- Blewett, John. (See Hancock, W. L., and Blewett.)
- Blicher, Mac, New York, N. Y. Reinforced armhole construction for garments of light-weight materials. 1,721,851; July 23.
- Blik, Joseph, assignor to Naamlooze Vennootschap: Technische Handels-Bureau "Thabur," The Hague, Netherlands. Electric heating element. 1,706,208; Mar. 19.
- Blinkmoeller, Joseph. (See Kohl, M., and Stemmeler, assignors.)
- Bliss Containers, Inc. (See Bliss, Herbert R., assignor.)
- Bliss, Donald M., assignor to Bodine Electric Company, Chicago, Ill. Short-circuiting device. 1,705,231; Mar. 12.
- Bliss, E. W., Company. (See Beyer, Otto S., assignor.)
- Bliss, E. W., Company. (See Dieter, William, assignor.)
- Bliss, E. W., Company. (See Kruse, Peter, assignor.)
- Bliss, E. W., Company. (See Strong W. E. S., and Dieter, assignors.)
- Bliss, E. W., Company. (See Strout, Robert W., assignor.)
- Bliss, Elmer F., Alplaus, N. Y., assignor to General Electric Company. Control system for electroresponsive devices. 1,698,295; Jan. 8.
- Bliss, Herbert R., assignor to Bliss Containers, Inc., Niagara Falls, N. Y. Reinforced shipping case. 1,697,709; Jan. 1.
- Bliss, Herbert R., assignor to Bliss Containers, Inc., Niagara Falls, N. Y. Shipping case. 1,708,291; Apr. 9.
- Bliss, Herbert R., assignor to Bliss Containers, Inc., Niagara Falls, N. Y. Shipping case. 1,739,778; Dec. 17.
- Bliss, Robert H., East Syracuse, N. Y. Window-latching device. 1,706,100; Mar. 19.
- Bliss, Sherwood C. (See Redpath, R. L., and Bliss.)
- Bliss, Sherwood C., Kenmore, assignor to American Radiator Company, New York, N. Y. Mold-ramming machine. 1,719,529; July 2.
- Bliss, Willard M., Brooklyn, N. Y. Vehicle signal. 1,702,859; Feb. 19.
- Blitz, Ralph S., Rifle, Colo., assignor of one-half to Steiner Sales Company, Salt Lake City, Utah. Support for irons. 1,700,876; Feb. 5.
- Bloch, Arthur, Philadelphia, Pa. Oil gauge. 1,725,050; Aug. 20.
- Bloch, Leon, assignor to The Republic Brass Company, Cleveland, Ohio. Cut-off device for bath fixtures. 1,714,758; May 28.
- Bloch, Pierre, and A. Nuñez, Mexico, Mexico. Thermostatic switch. 1,705,391; Mar. 12.
- Bloch, Albert L., Indianapolis, Ind. Illuminated sign and making same. 1,698,357; Jan. 8.
- Bloch, Alexander E., St. Louis, Mo. Shoe. 1,739,538; Dec. 17.
- Bloch, Alexander E., St. Louis, Mo. Shoe. 1,739,539; Dec. 17.
- Bloch, Alexander E., St. Louis, Mo. Foot-treatment appliance. 1,739,540; Dec. 17.
- Bloch, Alexander E., St. Louis, Mo. Truss for shoes. 1,739,541; Dec. 17.
- Bloch, Alexander E., St. Louis, Mo. Last. 1,740,220; Dec. 17.



- Block, David J., Chicago, Ill., assignor to W. D. Stein. Starch conversion product. 1,733,574; Oct. 29.
- Block, Harold C. (See Steward, W. M., and Block.)
- Block, Isaac D., Memphis, Tenn. Preparing bacon slabs. 1,731,648; Oct. 15.
- Block, Isaac D., and G. B. Canada, Memphis, Tenn. Comb. 1,699,044; Jan. 15.
- Block, Israel, Baltimore, Md. Pneumatic-tire armor. 1,733,681; Oct. 29.
- Block, Joseph, New York, N. Y. Two-light ceiling fixture. Des. 78,434; May 7.
- Block, Joseph, New York, N. Y. Wall bracket. Des. 78,503; May 14.
- Block, Maurice H., Brooklyn, N. Y. Aeroplane. 1,726,468; Aug. 27.
- Block, Meyer E., Peoria, Ill. Washing machine. 1,728,744; Sept. 17.
- Block, William L., Chicago, Ill., assignor to American Can Company, New York, N. Y. Tire display holder. 1,735,372; Nov. 12.
- Blocker, Asa T., assignor to Interstate Iron and Steel Company, Chicago, Ill. Bar twister for rolling mills. 1,735,282; Nov. 12.
- Blocker, Walter, Crestwood, N. Y. Instrument holder. 1,718,996; July 2.
- Blodgett, Frederick H., Bellows Falls, Vt. Pruning shears. 1,716,257; June 4.
- Blom, Axel V., Grosshochstetten, Switzerland. Producing pigmentary base products for lead paints. 1,736,066; Nov. 19.
- Blombery, George F., Lane Cove, near Sydney, New South Wales, Australia. Manufacture of surfaced paper sheets and boards. 1,720,716; July 16.
- Blomfield, Alfred L., and L. S. Harner, Colorado Springs, Colo., and H. S. Coe, Lawrence, Kans., assignors, by mesne assignments, to The Cycle Company, Colorado Springs, Colo. Separating solids from liquids. 1,702,192; Feb. 12.
- Blomfield, Alfred L., York, Pa., L. S. Harner, Colorado Springs, Colo., and H. S. Coe, Palo Alto, Calif., assignors, by mesne assignments, to The Cycle Company, Colorado Springs, Colo. Apparatus for the separation of solids in liquids. 1,702,193; Feb. 12.
- Blomfeldt, Allen A., Newport, Ky., and W. E. Teklenburg, Cincinnati, Ohio. Heating apparatus. 1,729,202; Sept. 24.
- Blomgren, Nils B., et al. (See Woodward, Horace L., assignor.)
- Blomgren, Nils H., Brooklyn, N. Y. Piston packing. 1,726,380; Aug. 27.
- Blomquist, August E. R., Cleveland, Ohio. Manicuring device. 1,713,592; May 21.
- Blomquist, Eric E., Matton, Ill. Journal-lubricating device. 1,713,944; May 21.
- Blomquist, Guy L., Cleveland, Ohio, assignor to Martin-Rockwell Corporation, Chicago, Ill. Ball bearing. 1,718,848; June 25.
- Blomquist, Johan V., Stockholm, Sweden. Rotary steam generator. 1,697,551; Jan. 1.
- Blomstrand, Axel E., Appleton, Wis. Cycle. 1,723,966; Aug. 6.
- Blondel, André, Paris, France. Apparatus for concentrating audible signals by interference. 1,733,718; Oct. 29.
- Blood, Edwin J., Chicago, Ill. Stabilizer. 1,715,028; May 28.
- Blood, Harold L., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing apparatus. 1,735,846; Nov. 19.
- Blood, Howard E., Detroit, Mich., assignor to Detroit Gear & Machine Company. Gear housing. 1,739,779; Dec. 17.
- Blood, Laurence E., assignor to S. A. Woods Machine Company, Boston, Mass. Feed mechanism for molders and the like. 1,704,677; Mar. 5.
- Blood, Laurence E., assignor to S. A. Woods Machine Company, Boston, Mass. Feed for woodworking machines. 1,730,841; Oct. 8.
- Bloom, August L., Big Falls, Minn. Safety lock and automatic chain tightener. 1,716,358; June 4.
- Bloom, Edgar J., Tiffin, Ohio. Gas-venting device. 1,734,361; Nov. 5.
- Bloom, Edgar J., Tiffin, Ohio. Clothes rack. 1,738,516; Dec. 10.
- Bloom, Frank A. L., Detroit, Mich. Apparatus for handling merchandise. 1,734,318; Nov. 5.
- Bloom, Hugo J., Moline, Ill. Sifter. 1,717,654; June 18.
- Bloom, Max L., Milwaukee, Wis. Pelt stretching and drying frame. 1,710,339; Apr. 23.
- Bloom, Nathan P., assignor to Adler Manufacturing Co., Louisville, Ky. Cabinet for a sound-reproducing instrument or the like. Des. 79,694; Oct. 29.
- Bloom, Nathan P., assignor to Adler Manufacturing Co., Louisville, Ky. Cabinet for a sound-reproducing instrument or the like. Des. 79,695; Oct. 29.
- Bloom, Nathan P., assignor to Adler Manufacturing Co., Louisville, Ky. Cabinet for a sound-reproducing instrument or the like. Des. 79,696; Oct. 29.
- Bloom, Nathan and J. and F. Neff, Detroit, Mich., assignors, by mesne assignments, to Universal Steamer Corporation. Apparatus for steaming fabrics and furs. 1,720,165; July 9.
- Bloom, Samuel C., Chicago, Ill. Spray nozzle. 1,731,813; Oct. 15.
- Bloom, Samuel C., Chicago, Ill., and W. H. Carrier, Essex Fells, N. J. Separable ice cake and making the same. 1,732,802; Oct. 22.
- Bloomberg, Joseph E., Milwaukee, Wis. Golf bag. 1,714,759; May 28.
- Bloomberg, Joseph E., Milwaukee, Wis. Shoe jacket. 1,714,760; May 28.
- Bloomingsdale, Hiram C., assignor to Card Display, Inc., New York, N. Y. Sign. Re17,463; Oct. 15.
- Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Band-wheel structure. 1,717,655; June 18.
- Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Pitman structure. 1,736,740; Nov. 19.
- Bloss, Richard R., R. C. Pfeil, and E. B. Maurer, assignors to The International Derrick & Equipment Company, Columbus, Ohio. Sand reel structure. 1,714,587; May 28.
- Blouch, Howard H. (See Delavie, F. J., and Blouch.)
- Blough, Hiram H., deceased, Johnstown, Pa., by the First National Bank of Johnstown, Pa., administrator. Switch. 1,706,518; Mar. 26.
- Blough, John T. B., East Pittsburgh, and E. E. Chronister, Turtle Creek, Pa. Variable condenser. 1,735,889; Nov. 19.
- Blount, Harry, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working apparatus. 1,739,282; Dec. 10.
- Blow, George, Knoxville, Tenn. Liquid-lifting apparatus. 1,698,619; Jan. 8.
- Blow, George, Knoxville, Tenn. Delivering liquids from wells. 1,737,635; Dec. 3.
- Blow, Joseph E., La Cygne, Kans. Cleaner for chicken houses. 1,728,524; Sept. 17.
- Blows, Wilbur L., assignor to Blatchford Calf Meal Company, Waukegan, Ill. Packaging materials. 1,726,523; Sept. 3.
- Budalk, Inc. (See Heinzelman, Alphonse A., assignor.)
- Blue, Amasa O., Traverse City, Mich. Fruit-gathering device. 1,732,252; Oct. 22.
- Blue Bird Favor Co. (See Stanyo, Wilhelmina, assignor.)
- Blue Diamond Company. (See Barton, William H., assignor.)
- Blue, Frank S., Carthage, N. C. Bulletin board, black-board, and the like. 1,727,332; Sept. 10.
- Blue Point Tool Company. (See Gillett, Benjamin B., assignor.)
- Blue Ribbon Sales Agency, Inc. (See Durant, John D., assignor.)
- Blue Valley Creamery Company. (See Cook, Joseph, assignor.)
- Blue, Wilbert F. (See Linebarger, I. B., and Blue.)
- Bluechel, Joseph H. (See Trouth, Ralph H., assignor.)
- Bluehdorn, William R. (See Studler, R. R., and Bluehdorn.)
- Bluehdorn, William R., Hartford, Conn. Automatic pistol. 1,738,751; Dec. 10.
- Blum, Alexandre, assignor to Societe Anonyme Francaise du "Fero-do," Paris, France. Friction material. 1,722,890; July 30.
- Blum, Harold J., Muskegon Heights, Mich., assignor to The Brunswick-Balke-Clender Company, Wilmington, Del. Bowling pin. 1,736,425; Nov. 19.
- Blum, Abraham I., New York, N. Y. Adjustable headwear. 1,702,427; Feb. 19.
- Blum, Henry, New York, N. Y. Valve. 1,724,251; Aug. 13.
- Blum, Philip E., Dansville, N. Y. Slipper. Des. 77,932; Mar. 12.
- Blum, Richard, Berlin, Germany. Implement for supplying heat to the human body. 1,703,811; Feb. 26.
- Blume, Aaron, New York, N. Y. Smoking and playing-card compact. 1,704,163; Mar. 5.
- Blume, Wilhelm, Berlin-Tegel, assignor to the firm Typograph G. m. b. H., Berlin, Germany. Matrix-setting and line-casting machine. 1,706,767; Mar. 26.
- Blumenberg, Henry, jr. (See Builey, A. M., and Blumenberg.)
- Blumenberg, Henry, jr., Los Angeles, Calif. Refining mineral oil. 1,700,347; Jan. 29.
- Blumenberg, Henry, jr., Los Angeles, Calif. Packing material for fruits. 1,702,103; Feb. 12.
- Blumenberg, Henry, jr., Los Angeles, Calif. Filtering material. 1,702,104; Feb. 12.
- Blumenberg, Henry, jr., Los Angeles, Calif. Filtering material. 1,713,250; May 14.
- Blumenberg, Henry, jr., Los Angeles, Calif. Filtering material. 1,713,251; May 14.
- Blumenberg, Henry, jr., Los Angeles, Calif. Treating mineral oils. 1,713,252; May 14.
- Blumenberg, Henry, jr., Los Angeles, Calif. Refining mineral-oil products. 1,716,103; June 4.
- Blumenberg, Henry, jr., Los Angeles, Calif. Filtering material. 1,734,197; Nov. 5.
- Blumenberg, Henry, jr., assignor to Stockholders Syndicate, Los Angeles, Calif. Production of nonhygroscopic phosphates and the resulting product. 1,706,101; Mar. 19.
- Blumenberg, Henry, jr., Moapa, Nev. Producing aluminum chloride. 1,716,102; June 4.
- Blumenberg, Henry, jr., Moapa, Nev. Making aluminum chlorosulphate. 1,734,196; Nov. 5.
- Blumenfeld, Edward G., Brooklyn, N. Y., assignor to La Salle Brass & Bronze Works, Inc. Electrical torchere. Des. 77,350; Jan. 1.



- Blumenfeld, Joseph, London, England, assignor, by mesne assignments, to Commercial Pigments Corporation. Preparation of titanium hydroxide. Re17,429; Sept. 10.
- Blumenfeld, Joseph, Paris, France, assignor, by mesne assignments, to Commercial Pigments Corporation. Preparation of titanium hydroxide. Re17,430; Sept. 10.
- Blumenfeld, Joseph, Serquigny, France, assignor to Commercial Pigments Corporation, New York, N. Y. Manufacture of titanium oxide. 1,707,248; Apr. 2.
- Blumenfeld, Marcus, New York, N. Y. Safety nipple. 1,735,670; Nov. 12.
- Blumenthal, Louis, Brooklyn, N. Y. Dough-dripping device. 1,701,293; Feb. 5.
- Blumenthal, Louis, Brooklyn, N. Y. Aeroplane safety device. 1,727,157; Sept. 3.
- Blumenthal, Saul, Brooklyn, N. Y. Removing bleaching chemicals from fruit or the like. 1,717,869; June 18.
- Blumenthal, Walter, Berlin-Schöneberg, Germany. Handle for vessels. 1,704,273; Mar. 5.
- Blumer, Jacob J. (See Gatchet, Francis L., assignor.)
- Blumrich, Karl, Höchst-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of calcium nitrate. 1,700,116; Jan. 29.
- Blunt, James G., Schenectady, N. Y. Locomotive truck. 1,699,603; Jan. 22.
- Blunt, James G., Schenectady, N. Y. Locomotive-truck equalizer. 1,699,604; Jan. 22.
- Blunt, James G., Schenectady, N. Y. Locomotive-journal-box cellar. 1,701,524; Feb. 12.
- Blunt, James G., Schenectady, N. Y. Locomotive whistle. 1,702,928; Feb. 19.
- Blunt, James G., Schenectady, N. Y. Articulated locomotive. 1,708,254; Apr. 9.
- Blunt, James G., Schenectady, N. Y. Locomotive driving box. 1,723,498; Aug. 6.
- Blunt, James G., Schenectady, N. Y. Connecting rod for locomotives. 1,735,491; Nov. 12.
- Blunt, James G., Schenectady, N. Y. Locomotive. 1,735,492; Nov. 12.
- Blunt, James G., Schenectady, N. Y. Boiler brace. 1,738,982; Dec. 10.
- Blunt, James G., Schenectady, N. Y. Truck-centering device. 1,739,283; Dec. 10.
- Blunt, James G., Schenectady, N. Y. Truck for railroad vehicles. 1,740,150; Dec. 17.
- Blunt, James G., Schenectady, N. Y. Centering appliance for locomotive trailing trucks. 1,740,440; Dec. 24.
- Blunt, Royden A., Baltimore, Md. Bottle. Des. 79,454; Sept. 24.
- Blunt, Royden A., Baltimore, Md. Bottle. Des. 79,455; Sept. 24.
- Blustein, Abraham, Washington, D. C. Buckle fastener for wrist-watch straps, bracelets, and the like. 1,723,401; Aug. 6.
- Blyberg, Godfrey. (See Bjorkholm, J. E., and Blyberg.)
- Blymyer, Raymond L., Cleveland, Ohio. Clip for hair wavers. 1,714,294; May 21.
- Blyston, Griffith F., Pittsburgh, Pa. Locomotive throttle valve. 1,712,245; May 7.
- Board, Charles W., and W. E. Crosby, De Land, Fla. Agricultural implement. 1,699,178; Jan. 15.
- Boardman, Clark C., Sterlington, assignor to Thermoatomic Carbon Company, Monroe, La. Gas filter. 1,710,469; Apr. 23.
- Boardman Company, The. (See Boardman, Edwin E., assignor.)
- Boardman, David W. (See Adcock, M. E., and Walden, assignor.)
- Boardman, Edwin E., assignor to The Boardman Company, Oklahoma City, Okla. Tank support. 1,732,829; Oct. 22.
- Boatman, Everett H., and H. D. Sonnenberg, Fond du Lac, Wis. Storm-welt-stitching plate. 1,723,994; Aug. 13.
- Boardman, Harry C. (See Day, C. L. Boardman, and Bailey.)
- Boardman, Harry C., Chicago, assignor to Chicago Bridge & Iron Co. Storage tank for volatile liquids. 1,716,947; June 11.
- Boardman, Leslie. (See Ainsworth, H. W., Likely, and Boardman.)
- Boardman, Raymond H., Meriden, Conn. Apartment-house telephone instrument or the like. Des. 73,559; May 21.
- Boatfield, Sidney O. (See Norwood, Harry G., assignor.)
- Boatman, Lafe. (See Dobbins, Timothy C., assignor.)
- Bobbitt, Edwin F. (See Johnson, James T., assignor.)
- Bohe, Charles P., et al. (See Keith, Roy, assignor.)
- Bobola, Frank J. (See Jarosz, John, assignor.)
- Bobrick Chemical Company. (See Bobrick, Gabriel A., assignor.)
- Bobrick, Gabriel A., deceased; M. E. Bobrick, administratrix, assignor to Bobrick Chemical Company, Los Angeles, Calif. Liquid dispenser. 1,697,302; Jan. 1.
- Bobrick, Mary E., administratrix. (See Bobrick, Gabriel A.)
- Bobrovsky, Igor S., Rochester, N. Y., assignor, by mesne assignments, to United Reproducers Corporation. Loud-speaker driving motor. 1,722,836; July 30.
- Bobrovsky, Igor S., Riverdale-on-Hudson, N. Y. Electrical reproducer. 1,724,067; Aug. 13.
- Bobrovsky, Igor S., assignor to United Radio Corporation, Rochester, N. Y. Diaphragm mounting for loud-speakers. 1,726,524; Sept. 3.
- Boby, Robert, Limited. (See Kobine, Alexis, assignor.)
- Boca, Joseph, Flint, assignor to General Motors Corporation, Detroit, Mich. Visor. 1,697,808; Jan. 1.
- Boca, Joseph, Flint, assignor to General Motors Corporation, Detroit, Mich. Metal running board. 1,735,948; Nov. 19.
- Bocchino, Ernest, assignor to Safety Device Fire Escape Company, Inc., Newark, N. J. Safety device for fire escapes. Re17,469; Oct. 22.
- Bocchino, Ernest, Newark, N. J. Roasting-pan-spit device. 1,741,400; Dec. 31.
- Bocchino, Michael, Passaic, N. J. Clothesline tightener. 1,737,406; Nov. 26.
- Bock, Tomas, Brooklyn, N. Y., assignor of one-half to R. V. Dunbar, Boundbrook, N. J. Electric switch mechanism. 1,711,770; May 7.
- Bock, Louise, H., New York, N. Y. Garment bag. 1,700,879; Feb. 5.
- Bochnak, Andy, Bobtown, Pa. Double-acting rifle. 1,712,131; May 7.
- Bock, Carl J., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Radiator structure. 1,737,353; Nov. 26.
- Bock, Charles S., assignor to Andrew Hoffman Manufacturing Company, Chicago, Ill. Device for supporting sheets of paper and the like. 1,739,057; Dec. 10.
- Bock, Emil H., Hamburg, Germany. Safety device provided with cells which are sensitive to light. 1,727,930; Sept. 10.
- Bock, Herman, et al. (See Nemeth, Steffen P., assignor.)
- Bock, Josef, Dortmund, Germany. Concrete ore-bunker plant. 1,707,898; Apr. 2.
- Bock, Julia H., Berkeley, Calif. Comb holder. 1,730,798; Oct. 8.
- Bock Laundry Machine Company, The. (See Bock, William E., assignor.)
- Bock, Max, Hamburg, Germany. Telemetric gas analyzer. 1,732,396; Oct. 22.
- Bock, Walter C., Norwood, Ohio. Sign holder. Des. 79,784; Nov. 5.
- Bock, William E., Eagle Point Colony, assignor, by mesne assignments, to The Bock Laundry Machine Company, Toledo, Ohio. Centrifugal machine. 1,699,581; Jan. 22.
- Bock, William E., Eagle Point Colony, assignor to Erie Glass Company, Toledo, Ohio. Apparatus and method for manufacturing glassware. 1,720,029; July 9.
- Bockau, Gustav, assignor to Ottumwa Iron Works, Ottumwa, Iowa. Jigging conveyor. 1,718,941; July 2.
- Bockorny, Eugen. (See Osswald, Eugen, assignor.)
- Bocek, Julius M., Cleveland, Ohio. Brick checker work. 1,700,398; Jan. 29.
- Boda, Joseph E., Moline, Ill., assignor, by mesne assignments, to Moline Implement Company. Tandem-disk harrow. 1,715,186; May 28.
- Bodde, Theodore, Niagara Falls, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,739,120; Dec. 10.
- Boddeker, Albert, Chicago, Ill. Burner apparatus. 1,701,968; Feb. 12.
- Boddie, Clarence A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed-regulator system. 1,709,706; Apr. 16.
- Boddie, Clarence A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,732,711; Oct. 22.
- Bode, Peter J., St. Louis, Mo. Ladder. 1,735,992; Nov. 19.
- Bodee, George P., Des Moines, Iowa. Blotting device. 1,740,063; Dec. 17.
- Boden, Georg, Leiniz-Gohlis, Germany. Internal-combustion engine. 1,719,165; July 2.
- Boden, Oliver, assignor to Wolsley Motors (1927) Limited, Birmingham, England. Internal-combustion engine. 1,729,659; Oct. 1.
- Bodendieck, Henry W., assignor to Tip's Tool Company, Incorporated, Taylorville, Ill. Insulating safety tool for handling live wires, etc. 1,741,970; Dec. 31.
- Bodendieck, Henry W., assignor to Tip's Tool Company, Incorporated, Taylorville, Ill. High-tension-wire cutter. 1,741,971; Dec. 31.
- Bodendieck, Henry W., and M. T. Tipsord, assignors to Tip's Tool Company, Incorporated, Taylorville, Ill. Clamp for wire conductors. 1,712,067; May 7.
- Bodendieck, Henry W., and M. T. Tipsord, assignors to Tip's Tool Company Incorporated, Taylorville, Ill. Tie stick for handling live wires. 1,715,636; June 4.
- Bodendieck, Henry W., and M. T. Tipsord, assignors to Tip's Tool Company, Incorporated, Taylorville, Ill. Springless safety clamp for live wires. 1,720,030; July 9.
- Bodenlos, Robert I., assignor to The American Shipbuilding Company, Cleveland, Ohio. Pitchometer. 1,736,247; Nov. 19.
- Bodensiek, Jennie M., New York, N. Y. Hose-supporter gripping device. 1,733,444; Oct. 29.
- Bodge, William. (See Ortiz, Joseph, assignor.)
- Bodie, Thomas L., Winnipeg, Manitoba, Canada. Combined grain cleaner and grader. 1,715,532; June 4.
- Bodien, Arthur J., Daly City, assignor of one-half to F. G. Dyer, San Francisco, Calif. Soap dispenser. 1,725,746; Aug. 27.
- Bodine, Alfred V., assignor to Dictaphone Corporation, Bridgeport, Conn. Safety device for phonographs. 1,725,332; Aug. 20.
- Bodine, Alfred V., assignor to Dictaphone Corporation, Bridgeport, Conn. Phonograph. 1,738,061; Dec. 3.



- Bodine, Clarence E., Sedalia, Mo. Locomotive boiler. 1,741,181; Dec. 31.
- Bodine Electric Company. (See Bliss, Donald M., assignor.)
- Bodine Electric Company. (See Thompson, Clifford F., assignor.)
- Bodle, Alexander T., Mishawaka, Ind., assignor to Dodge Manufacturing Corporation, Wilmington, Del. Conveyor chain. 1,737,823; Dec. 3.
- Bodle, Virgil H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for manipulating sheet material. 1,704,528; Mar. 5.
- Bodman, Walter L., New York, N. Y. Heat-insulating block. 1,708,464; Apr. 9.
- Bodman, Walter L., New York, N. Y. Carton or container. 1,715,349; June 4.
- Bodman, Walter L., New York, N. Y., assignor to The Insulation Corporation. Refrigerator. 1,708,461; Apr. 9.
- Bodman, Walter L., New York, N. Y., assignor to The Insulation Corporation. Building wall. 1,708,462; Apr. 9.
- Bodman, Walter L., New York, N. Y., assignor to The Insulation Corporation. Timing mechanism. 1,708,463; Apr. 9.
- Bodmer, Albert, assignor to Heberlein & Co., A. G., Wattwil, Switzerland. Treating cotton fibers to produce woollike effects. 1,717,322; June 11.
- Bodmer, Christian, assignor to The Stanley Works, New Britain, Conn. Hand tool. 1,721,065; July 16.
- Bodor, Andrew, Irvington, N. J., assignor, by mesne assignments, to Reinforced Paper Bottle Corporation, New York, N. Y. Apparatus for making paper bottles. 1,719,421; July 2.
- Bodor, Andrew, Newark, N. J. Hair-curling rod. 1,723,676; Aug. 6.
- Boe, Hans M., Minneapolis, Minn. Dispensing-bottle spout. 1,732,080; Oct. 15.
- Boe, Hans M., assignor to Boe Manufacturing Company, Minneapolis, Minn. Grease-bucket pump. 1,713,517; May 21.
- Boe, Hans M., assignor to Boe Manufacturing Company, Minneapolis, Minn. Grease-pump nozzle. 1,721,726; July 23.
- Boe Manufacturing Company. (See Boe, Hans M., assignor.)
- Boeck, Fred C., and O. C. Kuehne, San Antonio, Tex. Pump piston. 1,732,188; Oct. 15.
- Boeck, Fred C., and O. C. Kuehne, San Antonio, Tex. Pump piston. 1,732,189; Oct. 15.
- Boedecker, Friedrich, Berlin-Dahlem, Germany. Producing 1-propenyl-2-ethoxy-4-hydroxy-benzene. 1,704,494; Mar. 5.
- Boedecker, Friedrich, Berlin-Dahlem, Germany. Barbituric-acid derivative. 1,739,662; Dec. 17.
- Boedeker, Walter U., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing apparatus. 1,735,850; Nov. 19.
- Boedtcher, Franz A., Bergenfield, N. J. Elevator signaling system. 1,706,869; Mar. 26.
- Boedtcher, Franz A., Bergenfield, assignor to Otis Elevator Company, Jersey City, N. J. Door operating and locking device. 1,714,761; May 28.
- Boegehold, Alfred L., assignor to General Motors Research Corporation, Detroit, Mich. Malleable iron alloy. 1,707,753; Apr. 2.
- Boegehold, Alfred L., assignor to General Motors Research Corporation, Detroit, Mich. Shock absorber. 1,737,354; Nov. 26.
- Boeger, Otto. (See Polikier, H., and Boeger.)
- Boehler, Raymond F., jr., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool holder. 1,703,259; Feb. 26.
- Boehler, Raymond F., jr., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool-pad holder. 1,703,260; Feb. 26.
- Boehm, Arthur B. (See Becker, A. B., and Boehm.)
- Boehm, Heinrich, Berlin, Germany. Display device. 1,733,003; Oct. 22.
- Boehm, Rudolph G., Sugarland, Tex. Antifriction nut. 1,704,031; Mar. 5.
- Boehm, William, Cicero, Ill. Spare-tire compartment. 1,713,367; May 14.
- Boehringer, C. H., Sohn. (See Schöpf, Clemens, assignor.)
- Boehringer, C. F., & Soehne G. m. b. H. (See Sessler, Helene, assignor.)
- Boeing Airplane Company. (See Monteith, C. N., and Marsh, assignors.)
- Boeing Airplane Company. (See Monteith, C. N., and Walloch, assignors.)
- Boeing Airplane Company. (See Monteith, C. N., Arnold, and Minshall, assignors.)
- Bockenkamp, Edward, assignor to American Stove Company, St. Louis, Mo. Burner. 1,714,344; May 21.
- Boerder, Anton, Cleveland, Ohio. Tire mold. 1,735,916; Nov. 19.
- Boerner, Arno, Dresden, Germany, assignor of 10 per cent to R. Sucek, Czechoslovakia. Overcoming fluid friction. 1,726,882; Sept. 3.
- Boertlein, John C., assignor, by mesne assignments, to Grasselli Chemical Company, Cleveland, Ohio. Sulphur-burning process. 1,713,416; May 14.
- Boertlein, John C., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Apparatus for flaking molten solids. 1,740,064; Dec. 17.
- Boëry, Jean, Marseille, France. Seat provided with a reclining back. 1,701,604; Feb. 12.
- Boet, Mario A., Hollis, N. Y. Separating and defining strip for terrazzo floor sections. 1,732,253; Oct. 22.
- Boettcher, Arthur H., et al. (See Brown, Charles A., assignor.)
- Boettcher, Herman H., Blue Earth, Minn. Beet harvester. 1,723,462; Aug. 6.
- Boettcher, Herman H., Blue Earth, Minn. Beet-thinning machine. 1,732,830; Oct. 22.
- Boettcher, Herman H., Blue Earth, Minn., assignor of two-fifths to W. H. Baird, Mason City, Iowa. Beet-thinning machine. 1,720,409; July 9.
- Boettger, Henry W., et al. (See Michailovsky, Nicholas M., assignor.)
- Boettger, Theodore J., Tucson, Ariz. Folding camp table. 1,731,920; Oct. 15.
- Boever, Anne M., Cambridge, Mass., assignor to The Silex Company. Upper bowl for coffee makers. Des. 80,013; Dec. 3.
- Boever, Anne M., Cambridge, Mass., assignor to The Silex Company. Coffee maker. Des. 80,014; Dec. 3.
- Boever, Anne M., Cambridge, Mass., assignor to The Silex Company. Lower bowl for coffee makers. Des. 80,015; Dec. 3.
- Boeye, Paul F. (See Schilling, P. A., and Boeye.)
- Boeye, Paul F., St. Paul, Minn., assignor to Waldorf Paper Products Company. Shipping case. 1,697,969; Jan. 8.
- Bogard, Frank T., assignor of five-tenths to E. H. Christian, Oakland, Calif. Rotary heating device. 1,737,912; Dec. 3.
- Bogardus, Arthur G. (See Huff, L. C., and Bogardus.)
- Bogart, Guy B., Lockport, Ill., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,709,304; Apr. 16.
- Bogaskie, Frank, Johnstown, N. Y. Self-righting stamp. 1,722,407; July 30.
- Bogaskie, Frank, Johnstown, N. Y. Safety envelope. 1,722,451; July 30.
- Bogaty, Hermann. (See Hurxthal, A. O., and Bogaty.)
- Bogenhagen, William F. (See Sincok, J. F., and Bogenhagen.)
- Boger, Robert F., Boston, assignor to Spencer Thermostat Company, Cambridge, Mass. Fuel-valve control. 1,711,403; Apr. 30.
- Boger, Robert F., Boston, assignor to Spencer Thermostat Company, Cambridge, Mass. Pilot cut-off for gas burners. 1,711,443; Apr. 30.
- Boggio, Giusto, Royalton, Ill. Plaster-cast-cutting machine. 1,713,868; May 14.
- Boggs, Charles R. (See Middleton, W. I., and Boggs.)
- Boggs, Charles R., Waban, assignor to Simplex Wire & Cable Company, Boston, Mass. Electrical insulation. 1,736,899; Nov. 26.
- Boggs, James I., Tulsa, Okla. Vehicle wheel construction. 1,723,598; Aug. 6.
- Boggs, Thomas F., El Paso, Tex. Pin holder. 1,724,788; Aug. 13.
- Bogstrand, Ole K., Brooklyn, N. Y. Spark-plug structure. 1,722,269; July 30.
- Bogue, Robert J., Goodnight, Tex. Piston for rotary steam motors. 1,737,355; Nov. 26.
- Bohart, George S., San Francisco, Calif., assignor to National Canners Association, Washington, D. C. Process and product for preventing discoloration of canned foods. 1,699,274; Jan. 15.
- Bohen, John S., Springfield, Vt., assignor of one-half to J. J. Costello, Pittsfield, Mass. Multiple switch. 1,708,438; Apr. 9.
- Bohl, Hugo E., Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Bracket for lighting fixtures. Des. 78,607; May 28.
- Bohl, Hugo E., Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Lighting fixture. Des. 78,608; May 28.
- Bohl, Hugo E., Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Lighting fixture. Des. 78,609; May 28.
- Bohl, Hugo E., Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Chandelier. Des. 78,610; May 28.
- Bohl, Hugo E., Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Bracket for lighting fixtures. Des. 78,611; May 28.
- Bohl, Hugo E., Westfield, N. J., assignor to Radiant Lighting Fixture Co., Inc., New York, N. Y. Lighting fixture. Des. 78,612; May 28.
- Bohlig, Martin, assignor of one-half to P. B. Warner, St. Paul, Minn. Vending machine. 1,701,320; Feb. 5.
- Böbling, Peter, Hamburg-Steinwarder, Germany, assignor, by mesne assignments, to Société Anonyme pour Tous Appareillages Mécaniques (Satam), Levallois, Peret, France. Dispensing apparatus. 1,705,392; Mar. 12.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Distributor. 1,698,710; Jan. 15.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Multiple control. 1,710,720; Apr. 30.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Distributor. 1,721,727; July 23.
- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Lighting and ignition switch. 1,727,957; Sept. 10.



- Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Rheostat. 1,739,942; Dec. 17.
- Böhm, Erich, Vienna, Austria. Treatment of felt and felt hat bodies. 1,705,437; Mar. 12.
- Böhm, Erich, Vienna, Austria. Carroting animal hair and wool. 1,710,565; Apr. 23.
- Böhm, Erich, Vienna, Austria. Treatment of felt and felt hat bodies. 1,729,474; Sept. 24.
- Böhm, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Arrangement for producing short waves. 1,717,656; June 18.
- Böhm, Otto, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Voltage-limiting arrangement for intermediate circuit transmitters. 1,738,684; Dec. 10.
- Böhm, Viktor, Vienna, Austria. Treating the surfaces of hat bodies. 1,713,641; May 21.
- Böhm, Viktor, Vienna, Austria. Carroting animal fibres. 1,719,043; July 2.
- Böhme, Kurt, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Switch-bank contact. 1,697,221; Jan. 1.
- Böhme, Kurt, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Multiple contact bank. 1,697,222; Jan. 1.
- Böhme, Kurt, Berlin, and K. Giese, Potsdam, assignors to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Switching mechanism. 1,728,779; Sept. 17.
- Böhme, Martin, Berlin, Germany. Distant indicating device. 1,720,259; July 9.
- Bohmker, John C., Bradley, assignor to Sears, Roebuck and Co., Chicago, Ill. Distributor drive. 1,738,168; Dec. 3.
- Bohmker, John C., Bradley, assignor to Sears, Roebuck and Co., Chicago, Ill. Feeding mechanism. 1,720,994; July 16.
- Bohmker, John C., Bradley, assignor to Sears, Roebuck and Co., Chicago, Ill. Egg turner for incubator trays. 1,738,685; Dec. 10.
- Bohmker, John C., Kankakee, Ill. Grain grinder. 1,739,574; Dec. 17.
- Bohn Aluminum & Brass Corporation. (See Gabriel, Philip E., assignor.)
- Bohn Aluminum & Brass Corporation. (See Nelson, Adolph L., assignor.)
- Bohn Aluminum and Brass Corporation. (See Eggenweiler, C. W., and Fiegel, assignors.)
- Bohn Aluminum & Brass Corporation. (See Nelson, Adolph L., assignor.)
- Bohn Aluminum & Brass Corporation. (See Roshirt, Randolph J., assignor.)
- Bohn Aluminum & Brass Corp. (See Skillman, Verne, assignor.)
- Bohn, Gebhard C., St. Paul, Minn. Refrigerator. 1,701,525; Feb. 12.
- Bohn, Harry. (See Hersh, Lovell A., assignor.)
- Bohn, Harry. (See Roberts, Charles, assignor.)
- Bohn, Harry. (See Stowell, W. G., and Hersh, assignors.)
- Böhn, Olaf M., Mysen, Norway. Drinking fountain. 1,741,552; Dec. 31.
- Bohne, William A., assignor to E. F. Houghton & Company, Philadelphia, Pa. Washer-scratching machine. 1,707,899; Apr. 2.
- Bohne, William A., assignor to E. F. Houghton & Company, Philadelphia, Pa. Press for molded leather articles. 1,740,383; Dec. 17.
- Bohnenblust, Arnold, Riley, Kans. Pump jack. 1,708,213; Apr. 9.
- Bohnengel, Andrew J., Toledo, Ohio. Notation-strip manufacture. 1,713,070; May 14.
- Bohner, Clyde C., East Orange, assignor, by mesne assignments, to Tung-Sol Lamp Works Inc., Newark, N. J. Locating and positioning filament mounts during the sealing in of such mounts. 1,705,356; Mar. 12.
- Bohnhardt, Charles F. H., Baltimore, Md., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Faucet construction. 1,703,861; Mar. 5.
- Bohnhardt, Charles F. H., Lynwood, Calif. Truck-tank loading cap. 1,712,977; May 14.
- Bohnhardt, Charles F. H., Los Angeles, Calif. Air-cooled floating roof. 1,714,207; May 21.
- Bohnhardt, Charles F. H., Los Angeles, Calif. Liquid-seal expansion roof. 1,714,209; May 21.
- Bohnsack, John A., assignor to The E. F. Hauserman Company, Cleveland, Ohio. Metallic building element. 1,705,173; Mar. 12.
- Bohnsack, John A., Cleveland Heights, assignor to The E. F. Hauserman Company, Cleveland, Ohio. Joint between metallic building elements. 1,710,916; Apr. 30.
- Bohnsack, John A., Cleveland Heights, assignor to The E. F. Hauserman Company, Cleveland, Ohio. Sectional partition unit. 1,724,821; Aug. 13.
- Bohnsack, John A. (See Hauserman, E. F., Mowery, and Bohnsack.)
- Bohrer, Raymond E., assignor to The Todd Company, Inc., Rochester, N. Y. Loose-leaf binder. 1,729,563; Sept. 24.
- Boileau, Arthur H., Cedar Rapids, Iowa, assignor by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Folding mechanism for cartoning machines. 1,724,124; Aug. 13.
- Boiler Room Improvement Co. (See McNeill, Frederic, assignor.)
- Boise, Charles W., and W. R. Degenhardt, London, England. Disintegrating or mixing apparatus. 1,711,259; Apr. 30.
- Boix, Mariano A., Mayaguez, P. R. Grain-classifying device. 1,714,208; May 21.
- Bojac Manufacturing Co. (See Batcheller, Hugh W., assignor.)
- Bojer, George, Huntington, N. Y. Helm-locking device for vessels. 1,711,037; Apr. 30.
- Bojner, Gustav, Karlstad, and A. H. Pehrson, Granbergssdal, Sweden. Apparatus for introducing air or gaseous fluid into the charge in rotary furnaces. 1,709,456; Apr. 16.
- Bokelmann, Heinrich, Berlin, and H. Gastrow, Berlin-Zehlendorf, Germany. Marking means for electric conduits. 1,703,609; Feb. 26.
- Boker, Vitus A., assignor to R. E. Holland, Minneapolis, Minn. Gas governor for type-casting machines. 1,724,252; Aug. 13.
- Bol, Cornelis. (See Holst, G., Bergmans, and Bol.)
- Bol, Cornelis, Eindhoven, Netherlands, assignor to General Electric Company. Exhaust head. 1,728,034; Sept. 10.
- Bol, Cornelis, and C. H. Morel, Eindhoven, Netherlands, assignors to Radio Corporation of America. Energizing radio apparatus. 1,735,152; Nov. 12.
- Boland, Cassie W. (See West, O. L., and Boland.)
- Boland, Virgil E., assignor of eight per cent to S. Proaps, eight per cent to H. J. Johnson, eight per cent to W. T. Perry, eight per cent to R. H. Newhouse, and eight per cent to H. B. Little, Wichita, Kans. Dinner pail. 1,730,403; Oct. 8.
- Boldireff, Wasily E., and P. N. Korukin, assignors of one-half to P. F. Naletko, New York, and F. M. Chaloff, Brooklyn, N. Y. Fur dyeing. 1,714,941; May 28.
- Boldizzoni, Teobaldo, New York, N. Y. Amusement apparatus. 1,717,003; June 11.
- Boldt, Henry, Appleton, Wis. Breeding kennel. 1,737,073; Nov. 26.
- Bole, Edward A., Long Beach, Calif. Conveyer screen. 1,710,605; Apr. 23.
- Bolender, Joel D., assignor to The George R. Carter Company, Connerville, Ind. Molding. 1,739,943; Dec. 17.
- Bolender, Joel D., and E. R. Creamer, assignors to The George R. Carter Company, Connerville, Ind. Molding. 1,706,138; Mar. 19.
- Bolens, Harry W. (See Schwabe, Joseph, Jr., assignor.)
- Bolens, Harry W., Port Washington, Wis. Hydraulic jack. 1,709,000; Apr. 16.
- Bolf, Joseph, Roslyn, Wash. Heat indicator for electric irons. 1,718,403; June 25.
- Bolger, Robert S., New York, N. Y. Laminated article. 1,723,400; Aug. 6.
- Bolger, Robert S., Jamaica, assignor to International Motor Company, New York, N. Y. Truss-ladder construction. 1,735,418; Nov. 12.
- Bolin, Leonard M., et al. (See Dixon, Lewis M., assignor.)
- Bolin, Simon, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Reed structure and the like. 1,735,847; Nov. 19.
- Bolin, Stanley, et al. (See Dixon, Lewis M., assignor.)
- Bolin, Sven G., Kansas City, Mo. Boring machine. 1,721,268; July 16.
- Bolinder, Erik A., Stockholm, Sweden. Dovetailed stave for bulged barrels and caskets. 1,706,477; Mar. 26.
- Bolinders, J. & C. G., Mekaniska Verkstads Aktiebolag. (See Johnson, Carl J. A., assignor.)
- Bolis, Pietro, Milan, Italy, assignor to General Electric Company. Winding coils. 1,741,220; Dec. 31.
- Boll, Lester P., Maplewood, and A. C. Hansen, Jr., assignors to W. N. Matthews Corporation, St. Louis, Mo. Switch. 1,708,077; Apr. 9.
- Bollaert, Medard F., Oakland, Calif. Punch. 1,704,962; Mar. 12.
- Bollak, Andrew, Homer City, Pa. Figure toy. 1,707,705; Apr. 2.
- Bolledi, Luigi. (See Semenza, M., Mazza, and Bolledi.)
- Boller, Alexander, New York, N. Y. Back seat for automobiles. 1,732,116; Oct. 15.
- Bolles, William B., Milwaukee, Wis. Antipanic door-faster-operating mechanism. 1,708,078; Apr. 9.
- Bollheimer, Rhinehard, Fort Laramie, E. T. Wilkens and G. R. Harris, Troy, Ohio. Tractor winch. 1,713,991; May 21.
- Bolli, Bernhard, assignor to the firm: Société Anonyme Adolphe Saurer, Arbon, Switzerland. Constant-pressure combustion engine and operating same. 1,714,210; May 21.
- Bollinger, Charles, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical switch. 1,722,452; July 30.
- Bolozky, Samuel, West New York, N. J. Sanitary milk-bottle cap. 1,699,275; Jan. 15.
- Bolsinger, Samuel S., Roseburg, Oreg. Electric heating element. 1,718,106; June 18.
- Bolsinger, William B., Los Angeles, Calif. Card holder. 1,700,279; Jan. 29.
- Bolt, Annie F., administratrix. (See Bolt, Rufus R.)
- Bolt, Rufus R., deceased, Buffalo, N. Y.; A. F. Bolt administratrix. Hotbed for rolling mills. 1,738,983; Dec. 10.
- Bolt, William M., White Sulphur Springs, W. Va. Tongs. 1,725,613; Aug. 20.



- Bolton, Edith M., Gerrards Cross, England. Cooking-vessel and like handle. 1,719,461; July 2.
- Bolton, Elmer K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentration of ores by flotation. 1,716,104; June 4.
- Bolton, John B., Philadelphia, Pa., assignor to Shawmut Engineering Company, Boston, Mass. Yarn carrier. 1,709,766; Apr. 18.
- Bolton, John B., Philadelphia, Pa., assignor to Shawmut Engineering Company, Boston, Mass. Yarn clamp. 1,709,767; Apr. 16.
- Boltuch, Max, New York, N. Y., assignor to La Salle Brass & Bronze Works, Inc. Bridge arm for an electric-lighting fixture. Des. 78,435; May 7.
- Boltuch, Max, New York, N. Y., assignor to La Salle Brass & Bronze Works, Inc. Stanchion element for an electric-lighting fixture. Des. 78,436; May 7.
- Boltuch, Max, New York, N. Y. Bridge lamp. Des. 79,124; Aug. 6.
- Boltz, Fred S., Mansfield, Mass. Drying, waste-heat recovery, and cooling system. 1,731,290; Oct. 15.
- Boltz, Fred S., Mansfield, Mass. Earth-drilling apparatus. 1,741,497; Dec. 31.
- Boman, Claes W., Brooklyn, assignor to Joyce-Koebel Diamond Tool Department, Inc., New York, N. Y. Grinding or polishing diamonds. 1,727,425; Sept. 10.
- Boman, Sidney J. (See Bennett, H. M., and Boman.)
- Bomberger, George E., assignor to Anderson Box Company, Indianapolis, Ind. Chick box. 1,714,295; May 21.
- Bomhoff, Luther J., assignor of one-half to M. G. Slavson, Girard, Kans. Septic sewage-disposal plant. 1,738,521; Dec. 10.
- Bomonti, Fred, administrator. (See Loew, Charles H.)
- Bonan, Salvatore. (See Cohen, Issakhar, assignor.)
- Bonanno, Joseph L., Forest Hills, N. Y., assignor to Radio Corporation of America. Adapter. 1,697,946; Jan. 8.
- Bonanno, Joseph, Grantwood, N. J. Broom bridle. 1,712,729; May 14.
- Bond, Alexander R., executor. (See Baum, Leo.)
- Bond, Alexander R., executor. (See Baum, Leo, assignor.)
- Bond, Alfred W. (See Mason, C., and Bond.)
- Bond, Bruce G., New York, N. Y. Saxophone valve. 1,716,848; June 11.
- Bond, Charles L., Los Angeles, Calif., assignor to P. E. Ginn, Jamaica Plain, Mass. Carton-filling machine. 1,729,991; Oct. 1.
- Bond, Charles W., Burr, W. Va. Mail-box-flag control. 1,742,128; Dec. 31.
- Bond, Charles W., La Grande, Oreg. Combination milking stool and pail holder. 1,711,305; Apr. 30.
- Bond Electric Company. (See Reinhardt, Otto K., assignor.)
- Bond Electric Corporation. (See Barber, G. H., and Schuch, assignors.)
- Bond Electric Corporation. (See Casella, Secondo L., assignor.)
- Bond Electric Corporation. (See Puckett, Paul R., assignor.)
- Bond Electric Corporation. (See Zerner, M., and Reinhardt, assignors.)
- Bond, Jayson K., assignor to Federal Asbestos & Cork Insulation Co., Milwaukee, Wis. Baffle trav for refrigerated display counters. 1,716,366; June 11.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,716,294; June 4.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,716,295; June 4.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,716,296; June 4.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,716,297; June 4.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,716,298; June 4.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,716,299; June 4.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,737,699; Dec. 3.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,737,700; Dec. 3.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,737,701; Dec. 3.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,737,702; Dec. 3.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,737,703; Dec. 3.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,737,704; Dec. 3.
- Bond, Joseph E., Appleton, Wis. Agitator. 1,737,705; Dec. 3.
- Bond, Joseph E., assignor to Hayton Pump & Blower Co., Appleton, Wis. Pump bearing. 1,736,426; Nov. 19.
- Bond, Joseph T. (See Wright, W. L., and Bond.)
- Bond, Joseph T., Phoenix, N. Y. Air deflector. 1,738,418; Dec. 3.
- Bond, Leslie W. (See Criswell, W. H., and Bond.)
- Bond, Leslie W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,717,307; June 11.
- Bond, Raymond W. (See Renfrew, P. B., and Bond.)
- Bond, Reford, et al. (See Jenkins, John H., assignor.)
- Bond, Richard W., Wilmington, Del. Cartridge-reloading tool. 1,718,107; June 18.
- Bond, William G., Holly Oak, Del. Seal. 1,734,847; Nov. 5.
- Bond, William G., Wilmington, Del. Process of and apparatus for making cork articles. 1,716,293; June 4.
- Bondholders' Protective Committee of Electrolytic Holding Company. (See Fuller, George P.)
- Bone, Charles H., Dayton, Ohio. Clamp. 1,707,754; Apr. 2.
- Bone, Herbert L., Pittsburgh, Pa., assignor to Atlantic Precision Company, Boston, Mass. Controlling the moisture content of paper or other material. 1,722,655; July 30.
- Bone, Hugh M., Columbus, Ohio. Apparatus for treatment of fuels. 1,728,916; Sept. 24.
- Bone, John W., assignor to J. B. Automatic Terminal Manufacturing Company, Omaha, Nebr. Battery terminal connector. 1,714,762; May 28.
- Bone, Russell G., Milledgeville, Ga. Three-walled building block. 1,727,362; Sept. 10.
- Bone, Russell G., Milledgeville, Ga. Horizontally-cored building block. 1,727,363; Sept. 10.
- Bonfield, Paul H. (See Sawyer, Emerson D., assignor.)
- Bong, Emil, Los Angeles, Calif. Toupee and wig and making the same. 1,740,764; Dec. 24.
- Bongiovanni, John, Wakefield, Mich. Display stand. Des. 77,588; Jan. 29.
- Boniface, Addison O., Utica, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation. Foam-type fire extinguisher. 1,721,896; July 23.
- Bonn Machine Company, The. (See Van Winkle, Herbert H., assignor.)
- Bonnalie, Allan F. (See Humphries, A. G., and Bonnalie.)
- Bonnard, Armand A., and J. F. Tapie, Santa Barbara, Calif.; said Tapie assignor to said Bonnard. Combustion turbine. 1,721,173; July 16.
- Bonnefont, Antoine, Paris, France. Radio instrument controlling device. 1,715,736; June 4.
- Bonnel, William A., Cambridge, Kans. Road plow. 1,736,575; Nov. 19.
- Bonnell, Morgan, Clarksville, Pa. Alarm switch mechanism. 1,738,508; Dec. 3.
- Bonnell, William F., sr., Philadelphia, Pa., assignor to The Central Stamping Company, Newark, N. J. Handle for pot covers. 1,733,719; Oct. 29.
- Bonnell, William W., Bellevue, assignor to J. O. Ladd, Ambridge, Pa. Memorandum apparatus. 1,718,404; June 25.
- Bonner, James H., Long Beach, Calif. Hydraulic grab. 1,719,584; July 2.
- Bonner, James M., jr., Los Angeles, Calif. Lavatory. Des. 78,257; Apr. 16.
- Bonner, William T., Trenton, N. J., assignor to A. F. Colgren, Chicago, Ill. Brake. 1,716,026; June 4.
- Bonney, Flora M., executrix. (See Bonney, Leonard W.)
- Bonney-Floyd Company, The. (See Edmunds, Glenn E., assignor.)
- Bonney, Leonard W., et al. (See Booth, Harry T., assignor.)
- Bonney, Leonard W., deceased, Flushing, N. Y.; F. M. Bonney, executrix. Aeroplane. 1,710,670; Apr. 23.
- Bonney, Leonard W., deceased, Flushing, N. Y.; F. M. Bonney, executrix. Aeroplane control. 1,710,671; Apr. 23.
- Bonney, Leonard W., deceased, Flushing, N. Y.; F. M. Bonney, executrix. Aeroplane control. 1,710,672; Apr. 23.
- Bonney, Leonard W., deceased, Flushing, N. Y.; F. M. Bonney, executrix. Aeroplane wing or aerofoil structure. 1,710,673; Apr. 23.
- Bonney, Lynn F. (See Wright, J. C., and Bonney.)
- Bonney, Robert D., Norwood, Pa., assignor to Congoleum-Nairn, Inc. Surface covering and ornamenting same. 1,722,289; July 23.
- Bonnicksen, Cyril W., and S. Barratt, London, England. Production of flame or smoke for signaling. 1,735,373; Nov. 12.
- Bonnot Company, The. (See Lentz, George W., assignor.)
- Bono, Salvino, New York, N. Y. Curtain fixture. 1,723,918; Aug. 6.
- Bonomo, Alfred, Mondovi, Italy. Turbine. 1,704,424; Mar. 5.
- Bonomo, Michael F., White Haven, Pa. Dispensing device. 1,700,483; Jan. 29.
- Bonsall, Charles D., New Kensington, Pa. Load-lifting arrangement. Re17,302; May 28.
- Bonsall, Charles D., New Kensington, Pa. Load-lifting arrangement. 1,702,961; Feb. 19.
- Bonsall, Charles D., New Kensington, Pa. Carline reinforcement and load-lifting arrangement. 1,707,216; Apr. 2.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,709,603; Apr. 16.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy, New Kensington, Pa. Car roof. 1,718,027; June 18.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,718,028; June 18.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,718,029; June 18.
- Bonsall, Charles D., Pittsburgh, Pa., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,724,735; Aug. 13.
- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,729,923; Oct. 1.



- Bonsall, Charles D., Pittsburgh, assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,732,254; Oct. 22.
- Bonsall, Charles D., and P. E. Einger, Pittsburgh, Pa., assignors to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,724,746; Aug. 13.
- Booge, James E. (See Stine, C. M. A., and Booge.)
- Booge, James E., Newark, and M. L. Hanahan, East Orange, N. J., assignors, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Lithopone composition and making same. 1,722,174; July 23.
- Booge, James E., Hillside, N. J., and C. Coolidge, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Modification of drying oils. 1,725,561; Aug. 20.
- Booher, Thomas E., assignor to Hoosier Building Tile & Silo Company, Albany, Ind. Pig apartment. 1,721,942; July 23.
- Book, David. (See Rodstein, H., Book, and Nathanson.)
- Boomer, Alice C., Reading, Mass. Shoe-heel guard. 1,708,964; Apr. 16.
- Boomer, George R., and W. S. Littell, Spokane, Wash. Protective closure structure. 1,702,532; Feb. 19.
- Boomershine, Adam, assignor of one-half to G. W. Nicholas, Dayton, Ohio. Dispensing machine. 1,723,325; Aug. 6.
- Boon, Guthrie B., Austin, Tex., assignor to R. R. Stolley, inc. Purification of detergent solutions. 1,711,829; May 7.
- Boone, Edward H., Madison, Kans. Electrical connector. 1,725,747; Aug. 27.
- Boone and Wester. (See Wester, Chris, assignor.)
- Booraem, John F., Greenwich, Conn. Supporting harness for furnace arch walls. 1,720,941; July 16.
- Boorum & Pease Company. (See Finley, Charles A., assignor.)
- Boorum & Pease Company. (See Von Auw, Alwin, assignor.)
- Boos, August N. E., New York, N. Y. Recording apparatus. 1,717,601; June 18.
- Boos, Henry P. (See Hagman, Harry C., assignor.)
- Boosey, Edward W. N., Detroit, Mich. Backwater floor drain. 1,699,871; Jan. 22.
- Boosey, Edward W. N., Detroit, Mich. Back-pressure floor drain. 1,705,469; Mar. 19.
- Boosey, Edward W. N., Detroit, Mich. Backwater-intercepting tile-drain sump. 1,708,465; Apr. 9.
- Boosey, Edward W. N., Detroit, Mich. Backwater floor drain. 1,722,891; July 30.
- Booth, Alba C., assignor to himself and F. E. McIntosh, Burlington, Vt. Closure caps. 1,710,288; Apr. 23.
- Booth, Byron C., Muskegon Heights, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Toilet seat and making the same. 1,733,482; Oct. 29.
- Booth, Charles F. (See Carothers, J. N., and Booth.)
- Booth, Charles F., and A. B. Gerber, Anniston, assignors to Federal Phosphorus Company, Birmingham, Ala. Manufacture of neutral sodium phosphate. 1,700,972; Feb. 5.
- Booth, Charles F., and A. B. Gerber, Anniston, assignors to Federal Phosphorus Company, Birmingham, Ala. Neutral trisodium phosphate. 1,700,973; Feb. 5.
- Booth, Charles W., Greenville, Ohio. Pulverizing attachment for plows. 1,707,782; Apr. 2.
- Booth, Clement, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding. 1,733,093; Oct. 22.
- Booth, David, Baltimore, Md. Bolt. 1,706,102; Mar. 19.
- Booth, Earl C., assignor to Indianapolis Pump & Tube Company, Indianapolis, Ind. Process and apparatus for making stencils. 1,715,350; June 4.
- Booth, Frank. (See Reed J., and Booth.)
- Booth, Franklin, New York, N. Y. Lamp stand. Des. 78,189; Apr. 9.
- Booth, George. (See Green, G., and Booth.)
- Booth, George W., New Toronto, Ontario, Canada. Tunnel kiln. 1,698,700; Jan. 8.
- Booth, Harold S. (See Marshall, A. G., and Booth.)
- Booth, Harry T. (See Thurston, A. L., and Booth.)
- Booth, Harry T., Freeport, assignor to L. W. Bonney, Flushing, and Kirkham Products Company, Garden City, N. Y. Landing gear for aeroplanes. 1,705,896; Mar. 19.
- Booth, John C., and S. S. Sharples, Barre, Vt. Splitting granite, marble, and other rocks. 1,719,257; July 2.
- Booth, John H., Crondall, and F. A. Sidwell, London, England. Valve and valve-actuating mechanism of two-stroke-cycle internal-combustion engines. 1,719,388; July 2.
- Booth, John J., Turtleford, Saskatchewan, Canada. Blind for halters. 1,700,280; Jan. 29.
- Booth, Lewis M., Plainfield, N. J. Paper making. 1,713,642; May 21.
- Booth, Lewis M., Plainfield, assignor of one-third to A. W. Wickham, Gloucester, and one-third to R. W. Shaffer, Camden, N. J. Manufacturing paper board. 1,729,992; Oct. 1.
- Booth, Marcus F., jr., Spencer, Iowa. Spark catcher. 1,737,449; Nov. 26.
- Booth, Nelson E., Brooklyn, N. Y. Couch roll. 1,719,647; July 2.
- Booth, Theodore, assignor to Toledo Scale Company, Toledo, Ohio. Indicating device. 1,706,519; Mar. 26.
- Booth, Thomas G., Boston, Mass. Machine for separating fibers from fiber-yielding plants. 1,709,001; Apr. 16.
- Booth, Thomas G., and N. Craik, Boston, Mass. Washing apparatus. 1,726,381; Aug. 27.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Vehicle wheel. 1,693,082; Jan. 8.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Forming vehicle wheel rims. 1,693,083; Jan. 8.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Vehicle wheel. 1,702,377; Feb. 19.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Machine for perforating clamping lugs attached to tire-carrying rims. 1,702,378; Feb. 19.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Wheel hub and forming the same. 1,703,714; Feb. 26.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Chuck. 1,703,715; Feb. 26.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Machine for assembling spoked wheels. 1,708,439; Apr. 9.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Machine for closing and stamping rims. 1,709,002; Apr. 16.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Rim tool. 1,716,915; June 11.
- Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Forming spoked vehicle wheels. 1,725,333; Aug. 20.
- Booth, William S., Mountain View, Calif. Ridging machine. 1,700,117; Jan. 29.
- Booty, Philip C. P., assignor to M. T. Daley, Chicago, Ill. Receptacle for face powders. 1,737,294; Nov. 26.
- Bora, Frank W., et al., trustees. (See Arey, Fred C., assignor.)
- Borchardt, Andreas, Hamborn-on-the-Rhine, Germany. Gate-valve-cooling system. 1,727,958; Sept. 10.
- Borchardt, Moritz. (See Eimler, Paul, assignor.)
- Borchers, Heinrich, assignor of "an undivided share" to R. Aldag, Nienburg on Weser, Germany. Brake band. 1,700,759; Feb. 5.
- Borchers, Herbert H., Napa, Calif. Flower holder. 1,737,991; Dec. 3.
- Borchers, Wilhelm, Aachen, Germany, and R. W. Stimson, New York, N. Y.; said Borchers assignor to said Stimson. Alloy. 1,740,678; Dec. 24.
- Borchers, Wilhelm, Aachen, Germany, and R. W. Stimson, New York, N. Y.; said Borchers assignor to said Stimson. Alloy. 1,740,679; Dec. 24.
- Borchers, William G., assignor to Autographic Register Company, Hoboken, N. J. Manifold machine. 1,718,680; June 25.
- Borchert, Albert G., Cleveland, Ohio. Manufacturing screen frames. 1,734,710; Nov. 5.
- Borchert, Fred L., Rockford, Ill. Clutch. 1,725,562; Aug. 20.
- Borck, Edward E., Maumee, Ohio. Gas safety valve. 1,703,570; Feb. 26.
- Borden Company, The. (See Green, Lee B., assignor.)
- Borden Company, The. (See McClatchie, John M., assignor.)
- Borden Company, The. (See Mitton, William E., assignor.)
- Borden Company, The. (See Nonneman, Ira W., assignor.)
- Borden Company, The. (See Olsen, Olaf C., assignor.)
- Borden Company, The. (See Payne, Earl, assignor.)
- Borden Company, The. (See Sprague, Vernon T., assignor.)
- Borden Company, The. (See Taylor, Burt E., assignor.)
- Borden Company, The. (See Young, J. H., and Frink, assignors.)
- Borden, Raymond, Xenia, Ohio, assignor of one-half to C. H. Tate, Richmond, Ind. Window-latching device. 1,699,776; Jan. 22.
- Borden, Raymond, Xenia, Ohio, assignor of one-half to C. H. Tate, Richmond, Ind. Window fastener. 1,708,565; Apr. 9.
- Borden, Sarah A., Fall River, Mass. Brooder. 1,720,758; July 16.
- Borden, Stephen W., Summit, N. J. Electrical ground anode for electrical distribution systems. 1,737,562; Dec. 3.
- Bordwell, Lavern, New York, N. Y. Beater. 1,701,605; Feb. 12.
- Bordwell, Lavern, New York, N. Y. Egg beater. 1,709,768; Apr. 16.
- Bordwell, Lavern, New York, N. Y. Cup beater. 1,709,769; Apr. 16.
- Borecky, Frederick, New York, N. Y. Window construction. 1,721,852; July 23.
- Borel, Arnold E., Butte, Mont. Fisherman's fly and tackle case. 1,736,337; Nov. 19.
- Borel, Joseph, Annecy, France. System of street and vehicle lighting. 1,713,737; May 21.
- Borel, Joseph, Annecy, France. Antiglare headlight for motor cars. 1,735,725; Nov. 12.
- Borel, Maurice A. (See Challet, Etienne, assignor.)
- Borel, Onesime, assignor to the firm Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Maximum-load electricity meter. 1,698,353; Jan. 8.
- Borel, Paul, Marseille, France. Semiautomatic map-pointer for road vehicles. 1,741,676; Dec. 31.
- Borer, Paul, Delemont, Switzerland. Machine for peeling potatoes, apples, and the like. 1,702,992; Feb. 19.



- Borg & Beck Company, The. (See Ahlne, Carl M., assignor.)
- Borg & Beck Company The. (See Borg, George W., assignor.)
- Borg & Beck Company, The. (See Gamble, David E., assignor.)
- Borg & Beck Company, The. (See Reed, Harold V., assignor.)
- Borg, Erik, et al. (See Anderson, Carl J., assignor.)
- Borg, George W., assignor to The Borg & Beck Company, Chicago, Ill. Clutch. 1,706,435; Mar. 26.
- Borgatta, Giuseppe, Genoa, Italy. Wave-driven pumping gear. 1,712,288; May 7.
- Borgeson, Gustav, Syracuse, N. Y. Sheet-feeding mechanism. 1,712,546; May 14.
- Borgfeldt, Geo., & Co. (See Lindley, Walter, assignor.)
- Borisch, John. (See Blasek, W., and Borisch.)
- Bork, Herman F., Okaton, S. Dak. Hitch. 1,728,098; Sept. 10.
- Borkhuis, Louis J., Vayland, S. Dak. Guard-tooth for mowers. 1,728,326; Sept. 17.
- Borkman, George F., Salt Lake City, Utah. Duplex motive transmission for vibratory elements. 1,722,656; July 30.
- Borkman, George F., Salt Lake City, Utah. Loud-speaker unit. 1,722,657; July 30.
- Borkman, George F., Salt Lake City, Utah. Balanced resiliency multiple-action one-piece diaphragm. 1,732,351; Oct. 22.
- Borland, Carl A., La Grange, and A. F. Melching, Forest Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Voltage regulator. 1,717,831; June 18.
- Borland, Ira T., Granville, Ill. Screen for automobiles. 1,738,517; Dec. 10.
- Borland, John A., St. Paul, Minn. Piston. 1,701,355; Feb. 5.
- Borland, Matthew H., East Providence, R. I. Safety device for manhole covers or the like. 1,717,364; June 18.
- Borman, Emil P., Chicago, Ill. Elastic tire cover. 1,710,808; Apr. 30.
- Born Steel Range Company. (See Spielman, Milton H., assignor.)
- Born, William F., assignor to R. R. Roberts, Lakewood, Ohio. Automatic windshield wiper. 1,734,937; Nov. 5.
- Bornand, Adalbert, London, England. Talking machine. 1,730,055; Oct. 1.
- Bornefeld, Gottfried, Wermelskirchen, Germany. Gas regulator. 1,711,133; Apr. 30.
- Bornhardt, Fritz, Buchschlag, Hessen, Germany. Device for stereoscopic Röntgen-ray fluoroscopy. 1,735,726; Nov. 12.
- Bornhauser, Otto E., Sandusky, assignor, by mesne assignments, to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. Re17,406; Aug. 20.
- Bornholt, Oscar C., Indianapolis, Ind., assignor, by mesne assignments, to Detroit and Security Trust Company. Tire carrier. 1,732,877; Oct. 22.
- Bormann, Carl, assignor, by mesne assignments, to Agfa Anso Corporation, Binghamton, N. Y. Plate holder. 1,711,444; Apr. 30.
- Bormann, Carl, assignor, by mesne assignments, to Agfa Anso Corporation, Binghamton, N. Y. Medicine kit. 1,712,686; May 14.
- Bormann, Carl A. (See Davis, H. W., and Bormann.)
- Bormann, Carl A. (See Lessler, L. W., and Bormann.)
- Bormann, Carl A., assignor, by mesne assignments, to Agfa Anso Corporation, Binghamton, N. Y. Safety guard for shutters. 1,697,492; Jan. 1.
- Bormann, Carl A., assignor, by mesne assignments, to Agfa Anso Corporation, Binghamton, N. Y. Film shifter. 1,740,279; Dec. 17.
- Boros, Steve, Akron, Ohio. Electrically-operated wallpaper machine. 1,699,422; Jan. 15.
- Borough, Willard L. (See Carnahan, Earl J., assignor.)
- Borough, Willard L., Los Angeles, Calif. Pitman. 1,711,986; May 7.
- Borovoy, Samuel, and W. L. Perry, assignors to Saco-Loell Shops, Lowell, Mass. Twister frame. 1,713,326; May 14.
- Borresen, Helge A., Chicago, Ill. Inclination indicator. 1,726,643; Sept. 3.
- Borresen, Helge A., Chicago, Ill. Gyroscopically-stabilized inclinometer. 1,733,109; Oct. 29.
- Bormann, Willy, Leipzig-Leutzsch, Germany. Hair clipper. 1,713,369; May 14.
- Borsig, A., G. m. b. H. (See Marscheider, K., and Frisch, assignors.)
- Borst, Frederick C., et al. (See Dukesmith, Frank H., assignor.)
- Borsuk, Nathan, New York, and L. Pesacov, Brooklyn, N. Y. Frame structure. 1,717,139; June 11.
- Borkiewicz, Louie, Raccoon Station, Pa. Straightening die construction. 1,741,278; Dec. 31.
- Borton, George W. (See Battey, W. A., Stine, and Borton.)
- Borton, George W., New Lisbon, N. J., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer mill. 1,713,327; May 14.
- Bosca, Ernest E., Pasadena, Calif. Cigar lighter. Des. 79,785; Nov. 5.
- Boscardin, John M., Canaan, Conn. Device for raising submerged objects. 1,728,470; Sept. 17.
- Bosch, George F., Mount Vernon, N. Y. Aircraft refrigerator. 1,702,194; Feb. 12.
- Bosch, Henry, jr., Burlingame, Calif. Combination guard, aligning, and clamping device for cutting knives. 1,730,718; Oct. 8.
- Bosch, Robert, Aktiengesellschaft. (See Kleinert, Karl, assignor.)
- Bosch, Robert, Aktiengesellschaft. (See Maier, R., and Rall, assignors.)
- Bosch, Robert, Aktiengesellschaft. (See Rässler, Robert, assignor.)
- Boschert, Rufus E., Syracuse, N. Y. Fluid-pressure-operated motor. 1,737,563; Dec. 3.
- Boschetti, Vincenzo, West New York, N. J. Electric water heater. 1,717,308; June 11.
- Bosco, George B., Chicago, Ill. Clamp. 1,719,921; July 9.
- Bosco, George B., Chicago, Ill. Form tie and spacer. 1,721,635; July 23.
- Bosco, George B., Chicago, Ill. Form clamp. 1,726,976; Sept. 3.
- Bosenbury, Joseph M., Peoria, Ill., assignor to Consolidated Car-Heating Company, Albany, N. Y. Car heating by controller rheostats. 1,705,393; Mar. 12.
- Bosbart, Charles R., Lowville, N. Y. Animal tag and attaching tool therefor. 1,704,999; Mar. 12.
- Bosko, Thomas, and C. Wilkins, Canon City, Colo. Belt control. 1,706,520; Mar. 26.
- Bosle, Jacob P. (See Baines, J. E., and Bosle.)
- Bosmans, John A., Brooklyn, N. Y., assignor to Bosmil Engine Corporation. Power plant. 1,710,721; Apr. 30.
- Bosmil Engine Corporation. (See Bosmans, John A., assignor.)
- Boss, Edward H., Detroit, Mich. Supporting horse. 1,701,606; Feb. 12.
- Bossard, Theodore, Salt Lake City, Utah, assignor to National Products Incorporated. Vacuum tank. 1,710,253; Apr. 23.
- Bossard, Theodore, assignor to The National Products, Incorporated, Salt Lake City, Utah. Vacuum tank. 1,731,760; Oct. 15.
- Bossart, John, Los Angeles, Calif. Rock crusher. 1,721,246; July 16.
- Bossart, Paul N. (See Grondahl, L. O., and Bossart.)
- Bossart, Paul N., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,698,470; Jan. 8.
- Bossart, Paul N., assignor to The Union Switch & Signal Company, Swissvale, Pa. Microphone amplifier. 1,702,428; Feb. 19.
- Bossart, Paul N., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical measuring apparatus. 1,715,446; June 4.
- Bosse, August. (See Guignard, A., Bosse, and Guignard.)
- Bossemeyer, William J., Detroit, Mich. Weatherproof fabric. 1,720,315; July 9.
- Bosserdet, Henry C., Detroit, Mich. Door-operating mechanism. 1,712,786; May 14.
- Bossert Corporation, The. (See Clement, Walter J., assignor.)
- Bossert, Walter F. (See Davis, Gilbert F., assignor.)
- Bossetta, Gaspar R., New Orleans, La. Card holder. 1,716,258; June 4.
- Bosshard, Arnold, Arbon, Switzerland. Mercerizing process. 1,717,870; June 18.
- Bossie, Charles S., New York, N. Y. Collapsible washing machine. 1,708,931; Apr. 16.
- Bossini, Raoul F. (See Maiuri, G., and Bossini.)
- Bossini, Raoul, F., et al. (See Maiuri, G., and Moraschi, assignors.)
- Bossung, Ernst F., Hamilton, Ohio. Cigarette ejector. 1,700,020; Jan. 22.
- Bost, George W., Hillingdon, England, assignor to Republic Flow Meters Co., Chicago, Ill. Indicating quantities required for the correct operation of continuous processes. 1,729,500; Sept. 24.
- Bost, Paul, Hohen-Neuendorf, Germany. Cord for surgical ligatures. 1,703,385; Feb. 26.
- Bosfain, James C., Covington, Ky. Inductor for hot-air furnaces. 1,725,388; Aug. 20.
- Bostelman, John C., Jr., Toledo, Ohio, assignor to Visuola Corporation. Musical instructing and directing equipment. 1,696,901; Jan. 1.
- Bostic, Ralph R., Los Angeles, Calif. Deep-well pump. 1,711,582; May 7.
- Bostick, Howard S., Drexel Hill, assignor to J. B. Breneman and W. E. Bostick, Philadelphia, Pa. Metal weather strip. 1,707,074; Mar. 26.
- Bostick, William E., et al. (See Bostick, Howard S., assignor.)
- Boston Scale & Machine Company. (See Greensmith, James E., assignor.)
- Boston Wire Stitcher Company. (See Maynard, Arthur H., assignor.)
- Bostroem, August, assignor to S. R. Schwartz, New York, N. Y. Swivel joint. 1,697,710; Jan. 1.
- Bostwick, Henry C. (See Fleiter, A. J., and Bostwick.)
- Bostwick, Henry C., Kenmore, assignor to The Akron Standard Mold Company, Akron, Ohio. Vulcanizer. 1,740,065; Dec. 17.
- Bostwick, Lee G. (See Inglis, A. H., and Bostwick.)
- Bostwick, Lee G., East Orange, N. J., assignor to American Telephone and Telegraph Company. Volume-control system. 1,737,992; Dec. 3.
- Boswell, Robert A. (See Lewin, Samuel, assignor.)
- Bosworth, Arthur H., Wichita, Kans. Inhaler. 1,702,806; Feb. 19.



- Bosworth, Edwin L., Cambridge, Mass. Card index. 1,703,610; Feb. 26.
- Bosworth, George P., assignor to Hemphill Company, Central Falls, R. I. Splicing mechanism for knitting machines. 1,698,211; Jan. 8.
- Bosworth, Harry J., assignor to Harry J. Bosworth Company, Chicago, Ill. Light fixture. 1,708,047; Apr. 9.
- Bosworth, Harry J., Company. (See Bosworth, Harry J., assignor.)
- Bosworth, William H., Yonkers, assignor to George Haiss Manufacturing Company, New York, N. Y. Wagon loader. 1,730,992; Oct. 8.
- Bot, William H., Ghent, Minn. Self-adjusting device. 1,733,643; Oct. 29.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Current tap. Des. 77,735; Feb. 19.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Current tap. Des. 77,736; Feb. 19.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Sectional gang plate. 1,717,871; June 18.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Combined receptacle and pilot light. 1,720,463; July 9.
- Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Combination electric wall fitting. 1,730,600; Oct. 8.
- Bothe, Hugo E., Chicago, Ill. Window construction. 1,723,326; Aug. 6.
- Bothwell, Cecil L., and K. C. and R. C. Barton, East St. Louis, Ill. Delinting cottonseed hulls. 1,725,389; Aug. 20.
- Botley, Richard M. (See Hoyt, S. T., and Botley.)
- Botsford, James L. (See Crowder, Harvey, assignor.)
- Botsford, Willis H., et al. (See Dwyer, Thomas A. W., assignor.)
- Botson, René, Auderghem-Brussels, Belgium. Purifying crude sodium sulphide and the product thereof. 1,736,741; Nov. 19.
- Bott, Edgar S., and A. S. Funk, assignors to La Crosse Rubber Mills Co., La Crosse, Wis. Upper and process of constructing same. 1,739,821; Dec. 17.
- Bott, George R., Mount Vernon, N. Y., assignor to Norma-Hoffmann Bearings Corporation, Stamford, Conn. Sheet-metal incased bearing. 1,705,281; Mar. 12.
- Bott, George R., Mount Vernon, N. Y., assignor to Norma-Hoffmann Bearings Corporation, Stamford, Conn. Retaining lubricant and excluding dust. 1,722,489; July 30.
- Bott, George R., and F. E. Mueller, Mount Vernon, assignors to Norma-Hoffmann Bearings Corporation, Long Island City, N. Y. Ball bearing. 1,722,488; July 30.
- Bott, George R., Stamford, Conn., and F. E. Mueller, deceased, by K. M. Mueller, executrix, Mount Vernon, N. Y., assignors to Norma-Hoffmann Bearings Corporation, Stamford, Conn. Antifriction bearing. 1,722,490; July 30.
- Bott, George R., Stamford, Conn., and F. E. Mueller, deceased, by K. M. Mueller, executrix, Mount Vernon, N. Y., assignors to Norma-Hoffmann Bearings Corporation, Stamford, Conn. Antifriction bearing. 1,722,491; July 30.
- Bott, Wister P., Homer, La. Score board. Des. 77,525; Jan. 22.
- Botta, Albino. (See Lamagna, L., and Botta.)
- Böttcher, Bruno. (See Fejes, L., and Böttcher.)
- Böttcher, Paul, Altona-Bahrenfeld, near Hamburg, Germany. Double helical or double spiral gear. 1,702,860; Feb. 19.
- Böttcher, Paul, Altona-Bahrenfeld, near Hamburg, Germany. Machine for cutting double helical or double spiral gears. 1,709,835; Apr. 23.
- Botti, Ralph, Allentown, assignor of one-half to M. Brite, Bethlehem, Pa. Ankle and arch support for children's shoes. 1,717,432; June 18.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifolding book. 1,699,605; Jan. 22.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales book. 1,715,404; June 4.
- Bottle, Edward K., Elmira, and J. W. Anderson, New York, N. Y., assignors to American Sales Book Company, Limited, Toronto, Canada. Check holder. 1,718,808; June 25.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales book. 1,730,352; Oct. 8.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales book. 1,730,353; Oct. 8.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding sales book. 1,730,354; Oct. 8.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Sales book. 1,730,355; Oct. 8.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifolding machine. 1,733,329; Oct. 29.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Billing-machine aligner. 1,733,330; Oct. 29.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifolding book. 1,735,848; Nov. 19.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Strip-feed regulator and aligner. 1,735,849; Nov. 19.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Construction facilitating multiple carbon separation and control. 1,736,427; Nov. 19.
- Botto, Louis T., San Antonio, Tex. Railroad tie. 1,712,545; May 14.
- Botto, Louis T., assignor of one-half to L. O. Vogelsang, San Antonio, Tex. Railroad crossing. 1,703,716; Feb. 26.
- Bottom, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet. Des. 79,225; Aug. 20.
- Bottom, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet. Des. 79,226; Aug. 20.
- Bottom, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate. Des. 79,227; Aug. 20.
- Bouchard, Edgar, Quebec, Quebec, Canada. Match box. 1,739,822; Dec. 17.
- Bouchard, Jean-Baptiste, Indian Orchard, Mass. Game. 1,699,131; Jan. 15.
- Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Eyeglass and spectacle case. 80,104; Dec. 10.
- Bouché, William F., Buffalo, assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Electrical system. 1,708,865; Apr. 9.
- Boucher Cork Company. (See Grupe, William F., assignor.)
- Boucher, Joseph A. (See Karr, E. M., and Boucher.)
- Boucher, Leo P., Bristol, Conn. Pocketbook holder. 1,735,374; Nov. 12.
- Bouda, Bohumil, and G. G. Skelton, assignors to The Collis Company, Clinton, Iowa. Desiccating apparatus. 1,717,491; June 18.
- Bouffartique, Jose G., Habana, Cuba. Safety stopper. 1,704,648; Mar. 5.
- Boughton, Edward B., London, England. Braking mechanism for aerial machines. 1,718,108; June 18.
- Boughton, Edward B., London, England. Brake for use on vehicles. 1,721,370; July 16.
- Boughton, Edward B., London, England. Leverage system. 1,733,936; Oct. 29.
- Boughton, Solon J., assignor to The Willys-Overland Company, Toledo, Ohio. Starter-control mechanism for gas engines. 1,714,944; May 28.
- Boughton, Willis A., Cambridge, assignor to Bennett Box Co., Boston, Mass. Resilient flexible sheet and making the same. 1,722,968; July 30.
- Bougon, Georges H., Redwood City, Calif. Radiator ornament. Des. 79,549; Oct. 8.
- Bouillon, Charles V., Paris, France. Centrifugal machine. 1,717,753; June 18.
- Boulade, Antonin, assignor to Societe du Carburateur Zenith, Lyons, France. Heating carburetors. 1,740,221; Dec. 17.
- Boulard, Jean, Lowell, Mass. Combined automobile body and hood. Des. 77,460; Jan. 15.
- Boulding, George R., Hazen, Nev. Advertising device. 1,741,914; Dec. 31.
- Boulton, George, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lining-trimming machine. 1,700,624; Jan. 29.
- Boulton, George, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,714,544; May 28.
- Bouma, Benjamin T., Lynnville, Iowa. Drape, shade, and curtain fixture. 1,699,179; Jan. 15.
- Bound Brook Oil-Less Bearing Company. (See Claus, Carl, assignor.)
- Bounjien, Thomas G., Duluth, Minn. Tire carrier. 1,696,997; Jan. 1.
- Bouquet, Francois, Bellevue, Idaho. Saw. 1,731,093; Oct. 8.
- Bourdes, Andreas A. (See Deligianes, T. N., and Bourdes.)
- Bourdon, Pierre M., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Metal rim for use with pneumatic tires. 1,730,261; Oct. 1.
- Bourg, Joseph N., and W. A. Richards, assignors to Park Chemical Company, Detroit, Mich. Abrasive compound. 1,731,608; Oct. 15.
- Bourg, Walter, Napoleouville, La. Train signal. 1,703,055; Feb. 19.
- Bourgon, Joseph H. (See Breneman, P. E., and Bourgon.)
- Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Door construction. 1,699,560; Jan. 22.
- Bourjois, Inc. (See Courrault, Gilbert, assignor.)
- Bourke, Russell L., Petaluma, Calif. Tooth-paste-dispensing device. 1,731,703; Oct. 15.
- Bourke, Russell L., and A. C. Anderson, Petaluma, Calif. Provision cabinet. 1,741,008; Dec. 24.
- Bourn, Stephen W., Providence, R. I. Braiding machine. 1,727,096; Sept. 3.
- Bourne, Estal R., San Diego, Calif. Pipe-threading means. 1,707,465; Apr. 2.
- Bourne, Phillips P., Winchester, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Oil-engine-driven centrifugal and similar pump. 1,704,495; Mar. 5.
- Bourne, Roland B. (See Maxim, H. P., and Bourne.)



- Bourne, Roland B., assignor, by mesne assignments, to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,720,507; July 9.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Separable fastener. 1,711,771; May 7.
- Bousfield, Alfred, assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Weighing scale. Des. 77,737; Feb. 19.
- Bousman, Samuel I., Denver, Colo., assignor to The Dorr Company, New York, N. Y. Continuous settling apparatus. 1,741,498; Dec. 31.
- Boutell, Arnold, et al., executors. (See Gilbert, Henry J.)
- Boutelle, William H., Sturbridge, assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,698,047; Jan. 8.
- Boutillon, Henri, Suresnes, France. Distributing device for liquids. 1,739,437; Dec. 10.
- Boutin, Odilon. (See Bergeron, A., and Boutin.)
- Bouton, Edgar M., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Elevator-control system. 1,720,538; July 9.
- Bouton, Edgar M., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Elevator-control system. 1,736,480; Nov. 19.
- Bouton, Edgar M., Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,736,481; Nov. 19.
- Bouton, Edgar M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. 1,734,198; Nov. 5.
- Bouton, Edgar M., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Door-operating device for elevators. 1,735,153; Nov. 12.
- Bouton, Edgar M., East Pittsburgh, Pa., and C. P. Walker, Los Angeles, Calif., assignors to Westinghouse Electric and Manufacturing Company. Variable-voltage-control system. 1,732,712; Oct. 22.
- Boutwell, Roland H., et al. (See Page, Luther T., assignor.)
- Boutwell, Roswell M., et al. (See Page, Luther T., assignor.)
- Bouvier, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for producing reciprocating mechanical movement. 1,711,168; Apr. 30.
- Bouvier, George A., Oak Park, and J. W. Richter, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Strand-assembling apparatus. 1,706,727; Mar. 26.
- Bouwers, Albert, Eindhoven, Netherlands, assignor to N. V. Philips, Gloeilampenfabrieken, Eindhoven, Netherlands. X-ray tube. 1,717,309; June 11.
- Bouwers, Albert, and W. H. van de Sande Bakhuyzen, assignors to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. X-ray tube. 1,718,849; June 25.
- Bovey, Sidney J. (See Bovey, Thomas, and S. J.)
- Bovey, Sidney J. V., Chicago, Ill. Control device. 1,698,490; Jan. 8.
- Bovey, Thomas, Chicago, Ill. Control device for automobile heaters. 1,719,530; July 2.
- Bovey, Thomas, Chicago, Ill. Doorstop. 1,706,995; Mar. 26.
- Bovey, Thomas and S. J., Chicago, Ill.; said S. J. Bovey assignor of his entire right to said Thomas Bovey. Lever control for automobile heaters. 1,724,990; Aug. 20.
- Boving, Jens O., Westminster, London, England. Hydro-pneumatic liquid-raising plant. 1,736,777; Nov. 26.
- Bowditch, Fred T. (See Bagley, G. D., and Bowditch.)
- Bowditch, Fred T., Elmhurst, N. Y., assignor to National Carbon Company, Inc. Solution for chemical rectifiers. 1,727,462; Sept. 10.
- Bowen, David M., Los Angeles, Calif. Gas heater. 1,706,559; Mar. 26.
- Bowen, Elmer E., et al. (See Wilson, Fred P., assignor.)
- Bowen, Francis J., Jr., and J. G., San Antonio, Tex. Vending and serve-self-store vehicle. 1,720,260; July 9.
- Bowen, George W., Auburn, N. Y. Assembly and installation of turntables. 1,732,551; Oct. 22.
- Bowen, James M. (See Allen, C. J., and Bowen.)
- Bowen, John G. (See Bowen, Francis J., Jr., and J. G.)
- Bowen, Joseph R., Hollywood, Calif., assignor to Clean-Between Tooth Brush Company, St. Louis, Mo. Tooth-brush handle. Des. 78,258; Apr. 16.
- Bowen, Kenneth H., Auburn, N. Y. Electrical heating unit. 1,727,959; Sept. 10.
- Bowen, Leonard. (See Barry, R. K., and Bowen.)
- Bowen, Lester W., Hasbrouck Heights, N. J., assignor to Griffen & Bowen, Inc., New York, N. Y. Projection apparatus. 1,737,993; Dec. 3.
- Bowen, Mary E., administratrix. (See Bowen, Thomas J.)
- Bowen, Michael B., assignor to Faries Manufacturing Company, Decatur, Ill. Ceiling plate for electric-light fixtures. Des. 78,259; Apr. 16.
- Bowen, Michael B., assignor to Faries Manufacturing Company, Decatur, Ill. Lamp base. Des. 78,613; May 28.
- Bowen, Michael B., assignor to Faries Manufacturing Company, Decatur, Ill. Socket arm for light-reflecting shades. 1,713,509; May 21.
- Bowen Motors Company. (See Gerard, Roy H., assignor.)
- Bowen, Percy P., Buffalo, N. Y. Conveying and separating fibrous materials. 1,728,035; Sept. 10.
- Bowen, Philip A., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-attaching means for boots and shoes. 1,715,588; June 4.
- Bowen Products Corporation. (See Gleason, F. H., and Goodspeed, assignors.)
- Bowen, Russell H., assignor to The American Pulley Company, Philadelphia, Pa. Pulley. 1,721,066; July 16.
- Bowen, Thomas J., deceased, Wilmington, Del.; M. E. Bowen, administratrix. Machine for broadcasting a wide area of illumination. 1,718,850; June 25.
- Bowen, William S., Westfield, N. J. Separation and liquefaction of gases. 1,704,649; Mar. 5.
- Bowen, William S., Westfield, N. J. Spray drying. 1,711,306; Apr. 30.
- Bowen, William S., New York, N. Y. Drying liquids containing solid constituents. 1,722,175; July 23.
- Bower, Ferdinand A., Flint, assignor to General Motors Corporation, Detroit, Mich. Vibration neutralizer. 1,701,402; Feb. 5.
- Bower, Ferdinand A., Flint, assignor to General Motors Corporation, Detroit, Mich. Lubricating and filtering system. 1,703,335; Feb. 26.
- Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Pantograph-current collector. 1,728,819; Sept. 17.
- Bower, George W., Wesleyville, Pa., assignor to General Electric Company. Trolley wire suspension. 1,728,820; Sept. 17.
- Bower, George W., Schenectady, N. Y., assignor to General Electric Company. Pull-off for trolley wires. 1,734,892; Nov. 5.
- Bower, Harry A., Los Angeles, Calif. Snare attachment. 1,709,165; Apr. 16.
- Bower, Harry A., Hollywood, Calif. Drum. 1,722,032; July 23.
- Bower, Joseph H. W., Toronto, Ontario, Canada, assignor to Lamella Roof Syndicate, Inc., New York, N. Y. Constructing an arched roof. 1,733,004; Oct. 22.
- Bower Roller Bearing Company. (See Stevens, Daniel S., assignor.)
- Bower, Sigmund, Brooklyn, N. Y. Reinforced clothespin and making the same. 1,699,343; Jan. 15.
- Bower, William M. (See Holbourns, J. G., and Bower.)
- Bowers, Claude E., Los Angeles, Calif. Device for supporting concrete steel reinforcing bars. 1,734,994; Nov. 12.
- Bowers, Colin R., Los Angeles, assignor of one-fourth to J. H. Anderson, Stockton, Calif. Tempering, welding, and brazing compound. 1,718,917; June 25.
- Bowers, Edward, Paducah, Ky. Advertising display stand. Des. 80,160; Dec. 24.
- Bowers, Ernest C. (See Rosenbaum, L. F., and Bowers.)
- Bowers, Frederick M., Chester, Pa. Electrode holder. 1,723,760; Aug. 6.
- Bowers, James W., Pearlington, Miss. Envelope opener. 1,713,019; May 14.
- Bowers, Leslie D., Streator, Ill. Electromagnetic means for controlling air brakes. 1,733,396; Oct. 29.
- Bowers, Paul C., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purifying phthalic anhydride. 1,728,225; Sept. 17.
- Bowers, Robert R., Branson, Colo., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Combined mower and rake. 1,726,535; Sept. 3.
- Bowersock, Wilber E., assignor to Rochester Folding Box Company, Rochester, N. Y. Carton for display cards. 1,715,533; June 4.
- Bowes, James, Lawrence, Mass., assignor to U. S. Bobbin & Shuttle Company, Providence, R. I. Mounting an article in an opening. 1,730,799; Oct. 8.
- Bowes, Thomas D., Cynwyd, assignor of one-third to H. C. Verhey and one-third to L. C. Cope, Philadelphia, Pa. Piston for double-acting engines. 1,702,247; Feb. 19.
- Bowker, Elon L., Los Angeles, Calif. Electrical connector for automobile signals. 1,718,628; June 25.
- Bowler, Thomas F., assignor to Idaho Wheel and Rim Company, Boise, Idaho. Demountable wheel rim. 1,767,208; Mar. 26.
- Bowles, Lee, Detroit, Mich. Combination lunch kit. 1,703,221; Feb. 26.
- Bowlin, Jack. (See Dorzab, Henry, assignor.)
- Bowling, Robert T., and H. L. Cobb, Fresno, assignors to Electric Heating Corporation, Beverly Hills, Calif. Electric air-heating radiator. 1,701,096; Feb. 5.
- Bowlus, Glenn H. (See Dawkins, D. G., and Bowlus.)
- Bowlzer, Alfred H., Jr. (See Schlegel, R. M., and Bowlzer.)
- Bowman, A. B. (See Arnold, Leroy H., assignor.)
- Bowman, A. B. (See Johnson, Augustus K., assignor.)
- Bowman, A. M. (See Burnett, Robert N., assignor.)
- Bowman, Alfred N., Oxford, Ohio. Power hammer. 1,721,429; July 16.
- Bowman, Count R., Brooklyn, N. Y., assignor of one-half to E. Cammarata, New York, N. Y. Pen and pencil holder. 1,722,453; July 30.
- Bowman, Geo. H., Company, The. (See Finkle, Melik, assignor.)
- Bowman, Geo. H., Company, The. (See Pfefferkorn, Frederick F., assignor.)
- Bowman, J. H. (See Williams, William E., assignor.)
- Bowman, John G., assignor of one-half to W. C. Haseltine, Kansas City, Mo. Curtain rod and shade stick. 1,703,862; Mar. 5.
- Bowman, Lee M., Hollywood, Calif. Glare-modifying means for vehicle head lamps. 1,722,366; July 30.



- Bowman, Louis G., Chicago, assignor to Sexton Mfg. Company, Fairfield, Ill. Looper mechanism for sewing machines. 1,738,559; Dec. 10.
- Bowman-Manifold, Michael. (See Whitaker, A., and Bowman-Manifold.)
- Bowman, Oscar F., et al. (See Savage, Basil H., assignor.)
- Bowman, Pearl J., Bell, Calif. Hard-grease lubricator. 1,729,203; Sept. 24.
- Bowman, Samuel G. (See Moorhouse, A., and Bowman.)
- Bowman, Samuel W., Lancaster, Pa. Knife or similar article. Des. 78,190; Apr. 9.
- Bowman, Simeon A., St. Louis, Mo. Piston ring. 1,698,988. Jan. 15.
- Bowman, Simeon A., Hamilton, Ontario, Canada, assignor to Panyard Machine and Manufacturing Company, Muskegon, Mich. Piston packing. 1,735,596; Nov. 12.
- Bowman, Thomas W., et al., trustees. (See Tyler, Tracy B.)
- Bowman, William A., Dormont, Pa. Making hoops. 1,703,866; Mar. 5.
- Bowman, William C., Hayward, Calif. Staple. 1,741,279; Dec. 31.
- Bown, Clifford E., Youngstown, Ohio. Bottle-outlet control. 1,731,560; Oct. 15.
- Bown, Ralph. (See Espenschied, L., Bown, and Martin.)
- Bown, Ralph, East Orange, N. J., assignor to American Telephone and Telegraph Company. Radio receiving system. 1,697,042; Jan. 1.
- Bown, Ralph, Maplewood, N. J., assignor to American Telephone and Telegraph Company. Radiorepeater. 1,698,777; Jan. 15.
- Bowne, Langford J., Howard Beach, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,719,499; July 2.
- Bowne, Langford J., Howard Beach, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,724,903; Aug. 20.
- Bowne, Raymond W., Lynn, Mass., assignor, by mesne assignments, to Winchester Repeating Arms Company, New Haven, Conn. Radiator tube. 1,713,020; May 14.
- Bowser, Francis S. (See Crowell, A. B., and Bowser.)
- Bowser, Percy L. (See Flamang, J., and Bowser.)
- Bowser, S. F., & Company. (See Armistead, William C., assignor.)
- Bowser, S. F., & Company. (See Fisher, Thomas C., assignor.)
- Bowser, S. F., & Company. (See Griffith, Clement P., assignor.)
- Bowser, S. F., & Company. (See Hartley, Lee R., assignor.)
- Bowser, S. F., & Company. (See Mensing, Clarence W., assignor.)
- Bowser, S. F., & Company. (See Pepper, Byron J., assignor.)
- Bowser, S. F., & Company. (See Renfrew, Paul B., assignor.)
- Bowser, S. F., & Company. (See Renfrew, P. B., and Bond, assignors.)
- Box Blank Corporation. (See Andrews, Champe S., assignor.)
- Box, Leonard, East St. Louis, Ill. Furnace. 1,707,623; Apr. 2.
- Box, Leonard, East St. Louis, Ill. Furnace. 1,717,657; June 18.
- Boxboard Products Company. (See Kondolph, Mathias R., assignor.)
- Boyajian, Aram (See Camilli, G., and Boyajian.)
- Boyajian, Aram, and G. Camilli, Pittsfield, Mass., assignors to General Electric Company. Current transformer. 1,706,139; Mar. 19.
- Boyarisky, Herman, et al. (See Spanier, J., and Weiss, assignors.)
- Boyce, Charles M., assignor to Tru-Art Corporation, Cedar Rapids, Iowa. Method of and apparatus for making and finishing prints. 1,719,796; July 2.
- Boyce, Charles M., assignor to Tru-Art Corporation, Cedar Rapids, Iowa. Finishing prints. 1,725,699; Aug. 20.
- Boyce, Harrison H. (See Hebig, Henry C., assignor.)
- Boyce, Harrison H., Jericho, N. Y. Illuminating device. 1,705,604; Mar. 19.
- Boyce, Harrison H., Jericho, N. Y. Motor heat indicator. 1,711,668; May 7.
- Boyce, Harrison H., Jericho, N. Y. Motor heat indicator. 1,711,669; May 7.
- Boyce, Harrison H., Jericho, N. Y. Heat indicator for internal-combustion engines. 1,712,246; May 7.
- Boyce, Harrison H., Jericho, N. Y. Illuminating device. 1,712,289; May 7.
- Boyce, Harrison H., Jericho, N. Y. Indicating instrument. 1,713,518; May 21.
- Boyce, Harrison H., Jericho, N. Y. Radiator-cap lock. 1,732,257; Oct. 22.
- Boyce, Harrison H., Jericho, N. Y. Housing for motor-heat indicators. 1,739,284; Dec. 10.
- Boyce, Harrison H., Jericho, N. Y. Multiple-indicating temperature-responsive device. 1,739,285; Dec. 10.
- Boyce, Harrison H., Jericho, N. Y. Instrument bracket. 1,740,151; Dec. 17.
- Boyce, Harrison H., Jericho, N. Y. Radiator-cap-securing device. 1,740,152; Dec. 17.
- Boyce, James, et al. (See Townsend, Thomas, assignor.)
- Boyce, John E., Yonkers, and K. L. Howell, Brooklyn, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Car-controlling switch apparatus. 1,702,807; Feb. 19.
- Boyd, Arthur C., Maywood, Ill. Liquid-fuel atomizer. 1,719,869; July 9.
- Boyd, Dorsey L. (See McClung, S. W., Boyd, and Morris.)
- Boyd, George, Dunellen, N. J. Fuel-feeding device. 1,732,457; Oct. 22.
- Boyd, John T., Valdosta, Ga. Plant protector. 1,712,324; May 7.
- Boyd, Paul F., Chicago, Ill. Portable horsepower. 1,736,389; Nov. 19.
- Boyd, Samuel, Danielson, Conn., assignor to Draper Corporation, Hopedale, Mass. Yarn spinning or winding machine. 1,718,629; June 25.
- Boyd, Samuel J., Los Angeles, Calif. Wedge-secured door latch. 1,713,253; May 14.
- Boyd, Truman O., et al. (See Ross, Warren A., assignor.)
- Boyd-Welsh Shoe Company. (See Lake, John W., assignor.)
- Boyd, William A., Detroit, Mich. Jar cover or similar article. Des. 79,011; July 23.
- Boyd, William A., Detroit, Mich. Jar cover or similar article. Des. 79,012; July 23.
- Boyden, George A., Baltimore, Md., assignor to Boyden Railroad Car Truck Corporation. Semisquare railroad-car truck. 1,707,046; Mar. 26.
- Boyden Railroad Car Truck Corporation. (See Boyden, George A., assignor.)
- Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 78,081; Mar. 26.
- Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 78,082; Mar. 26.
- Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 78,083; Mar. 26.
- Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 78,084; Mar. 26.
- Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 78,085; Mar. 26.
- Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 78,086; Mar. 26.
- Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 78,333; Apr. 23.
- Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 78,963; July 16.
- Boye, James H., Chicago, Ill. Tie back for side drapes. Des. 79,063; July 30.
- Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 79,125; Aug. 6.
- Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 79,697; Oct. 29.
- Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 79,698; Oct. 29.
- Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 79,699; Oct. 29.
- Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 80,016; Dec. 3.
- Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 80,018; Dec. 3.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Telescopic curtain rod. 1,699,276; Jan. 15.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Tie back for curtains and drapes. 1,741,182; Dec. 31.
- Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)
- Boyens, Paul J., et al. (See Coleman, George B., assignor.)
- Boyer Fire Apparatus Company. (See Allen, J. E., and Schwoeppe, assignors.)
- Boyer, J. J. (See Cameron, Daniel W., assignor.)
- Boykin, Robert O., assignor to Vacuum Dehydration Corporation of America, Los Angeles, Calif. Hydraulic pumping ejector container. 1,699,220; Jan. 15.
- Boykin, Robert O., assignor to N. R. Rail, Los Angeles, Calif. Extracting oils from oleaginous materials. 1,721,686; July 23.
- Boyko, Michael, Cleveland, Ohio. Nonpneumatic tire tube. 1,711,404; Apr. 30.
- Boykow, Johann, Schöneberg, near Berlin, assignor to the firm of Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Bomb sight. 1,703,386; Feb. 26.
- Boykow, Johann M., Berlin-Lichterfelde, assignor to Messgeräte Boykow G. m. b. H., Berlin-Lichterfelde-West, Germany. Stabilization of moving objects such as aircraft and water craft. 1,709,457; Apr. 16.
- Boykow, Johann M., assignor to Messgeräte Boykow G. m. b. H., Berlin-Lichterfelde-West, Germany. Electric-current regulator. 1,721,853; July 23.
- Boylan, Clarence A. (See Tucker, L. D., and Boylan.)
- Boyle, Clete L. (See Klinger, J. D., and Boyle.)
- Boyle-Dayton Co. (See Edwards, Curtis H., assignor.)
- Boyle-Dayton Co., The. (See Edwards, C. H., and Transstrom, assignors.)
- Boyle Manufacturing Company, The. (See Muhlbach, Alfred J., assignor.)
- Boyle, Michael, Jr., Chicago, Ill. Valve construction. 1,720,316; July 9.
- Boyles, Ralph R., and E. S. Stanley, St. Paul, Minn. Safety razor. 1,732,458; Oct. 22.
- Boymoto Company, The. (See Schlaich, Herman, assignor.)
- Boynton, Alexander, San Antonio, Tex. Stage lift flowing device. 1,712,418; May 7.
- Boynton, Alexander, San Antonio, Tex. Universal polished-rod rotor. 1,712,868; May 14.



- Boynton, Arthur J., Winnetka, assignor to H. A. Brassett & Company, Chicago, Ill. Coke bin. 1,709,604; Apr. 16.
- Boynton, Arthur J., Winnetka, assignor to H. A. Brassett & Company, Chicago, Ill. Power-driven bin-gate-actuating device. 1,735,106; Nov. 12.
- Boynton, Arthur J., Winnetka, assignor to H. A. Brassett & Company, Chicago, Ill. Power-driven bin-gate-actuating device. 1,738,939; Dec. 10.
- Boynton, Arthur J., Winnetka, assignor to H. A. Brassett & Company, Chicago, Ill. Preparing slimes derived from wet washing of gas for sintering. 1,738,940; Dec. 10.
- Boynton, Carle D., Joplin, Mo. Gun for blowing asphalt and the like. 1,736,768; Nov. 26.
- Boynton, Frank M., Philadelphia, Pa. Rust-loosening composition. 1,715,589; June 4.
- Boynton, Jesse L., assignor of fifty per cent to C. A. Marshall, New York, N. Y. Timing the use of electrical circuits. 1,712,488; May 14.
- Boynton, John E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Handling matter. 1,720,759; July 16.
- Boynton, John E., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Working moldable matter. 1,741,812; Dec. 31.
- Boynton, John E., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for producing composite articles. 1,741,813; Dec. 31.
- Boynton, John E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for extruding matter. 1,741,814; Dec. 31.
- Boynton, John E., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for treating moving matter. 1,741,815; Dec. 31.
- Boynton, John E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for pumping material. 1,741,816; Dec. 31.
- Boynton, Stanley E., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Bearing and producing it. 1,697,848; Jan. 8.
- Boyrie, Harry E., San Francisco, Calif., assignor to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,708,652; Apr. 9.
- Boyrie, Harry E., San Francisco, Calif., assignor to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,708,653; Apr. 9.
- Boys, Charles V., Westminster, London, England. Recording gas calorimeter. 1,726,140; Aug. 27.
- Boysen, Jorgen, New York, N. Y. Automobile mirror. 1,710,040; Apr. 23.
- Boyson, William T., Philadelphia, Pa. Connecting plug. 1,714,763; May 28.
- Boyton, John C., Cleveland, Ohio. Conduit fitting. 1,735,196; Nov. 12.
- Boys, Porter & Co. (See McGee, Edgar I., assignor.)
- Boyls, Cecil H., assignor to Perfect Laundry Machinery Company, Louisville, Ky. Laundry appliance. 1,706,690; Mar. 26.
- Bozowich, John, San Francisco, Calif. Griddle scraper. 1,728,036; Sept. 10.
- Bozowich, John, San Francisco, Calif. Bent sliding trolley. 1,729,924; Oct. 1.
- Braastad, Albert. (See Eriksen, E., and Braastad.)
- Brabbée, Charles W., Bronxville, assignor to American Radiator Company, New York, N. Y. Heating stove. 1,710,674; Apr. 23.
- Brace, Joseph, Narka, Kans. Combined rocker and bed for children. 1,722,408; July 30.
- Brach, E. J., & Sons. (See Krueger, Robert C., assignor.)
- Brach, E. J., & Sons. (See Newlander, Alfred, assignor.)
- Brach, L. S., Mfg. Co. (See Brach, Leon S., assignor.)
- Brach, Leon S., East Orange, assignor to L. S. Brach Mfg. Co., Newark, N. J. Electrical relay. 1,702,490; Feb. 19.
- Brach, Leon S., East Orange, N. J. Electric-lamp adapter for oil lamps. 1,702,491; Feb. 19.
- Bracke, Robert F., Chicago, assignor to Curtis B. Camp, trustee, Oak Park, Ill. Starting carburetor for internal-combustion engines. 1,699,324; Jan. 15.
- Bracke, Robert F., Chicago, assignor, by mesne assignments to C. B. Camp, trustee, Oak Park, Ill. Carburetor. 1,705,282; Mar. 12.
- Brackelsberg, Carl A., Hemer, Germany, assignor, by mesne assignments, to Maguire, Inc. Apparatus for treating ores. 1,729,534; Sept. 24.
- Bracken, William A., Augusta, Kans. Automobile awning. 1,707,110; Mar. 26.
- Bracken, William A., El Dorado, Kans. Automobile awning. 1,715,275; May 28.
- Bracken, William A., assignor of one-half to W. B. Jones, Augusta, Kans. Automobile awning. 1,703,717; Feb. 26.
- Bracker, Otto, Hanau-on-the-Main, Germany. Cock or tap for controlling fluids. 1,734,416; Nov. 5.
- Brackett, Edward M. and F. M., Topeka, Kans. Adjustable cutting-off mechanism for stripping machines. 1,724,068; Aug. 13.
- Brackett, Francis W., Colchester, England. Rotary filter or strainer. 1,726,608; Sept. 3.
- Brackett, Francis W., Colchester, England. Rocking or hobby horse. 1,730,557; Oct. 8.
- Brackett, Fred M. (See Brackett, Edward M. and F. M.)
- Brackett, Leroy G., Medford, Mass. Pencil sharpener. 1,723,009; Aug. 6.
- Bradbury, Clifford C., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating system. 1,716,482; June 11.
- Bradbury, Eugene A., Long Beach, and W. B. Holland, Anaheim, Calif. Direction indicator. 1,725,248; Aug. 20.
- Braden, Albert R. (See Heys, J. J., and Braden.)
- Braden Engineering, Inc. (See Braden, Marshall H., assignor.)
- Braden, Marshall H., Providence, R. I., assignor to Braden Engineering, Inc. Hydrocarbon burner. 1,735,629; Nov. 12.
- Braden, Richard W., New York, N. Y., and C. Stern, Jersey City, N. J. Drifting valve. 1,709,057; Apr. 16.
- Braden Steel & Winch Co. (See Day, Arthur L., assignor.)
- Braden Steel & Winch Company. (See Thomas, John C., assignor.)
- Bradfield, Edmund S., Barnesville, Ohio. Supporting brace for motion-picture cameras. 1,709,387; Apr. 16.
- Bradford, Allen, Portland, Ore. Airship. 1,729,925; Oct. 1.
- Bradford, Edwin L., Washington, D. C., assignor, by mesne assignments, to The Symington Company. Journal box. 1,706,103; Mar. 19.
- Bradka Holding Corporation. (See Brady, Jessica M., assignor.)
- Bradley, Alex, Coatesville, Pa. 1,709,654; Apr. 16.
- Bradley, Aubrey O. (See Hitch, E. F., Jordan, and Bradley.)
- Bradley, Charles E., Montclair, N. J., and W. A. Gibbons, New York, N. Y., assignors to The Naugatuck Chemical Company. Coating composition. 1,703,920; Mar. 5.
- Bradley, Edward L., San Francisco, Calif. Display easel. Des. 78,728; June 18.
- Bradley, Fred, Toledo, Ohio. Game. 1,702,760; Feb. 19.
- Bradley, Harry L., assignor to The Reliance Company, Milwaukee, Wis. Vernier friction knob. 1,718,942; July 2.
- Bradley, Herbert W., Trenton, N. J. Float. 1,700,153; Jan. 29.
- Bradley, James, assignor of one-fourth to H. W. Lee and one-fourth to R. M. Robinson, Albany, one-eighth to H. Mallett, Syracuse, and one-eighth to A. A. Lyker, Gloversville, N. Y. Balance wheel. 1,729,026; Sept. 24.
- Bradley, John, assignor to Maher Bros. Company, Medina, N. Y. Upholstered furniture. 1,697,303; Jan. 1.
- Bradley, John, and H. Hardy, Morley, England. Extra-warp motion for looms. 1,711,583; May 7.
- Bradley, Josiah, Brooklyn, N. Y. Retort-operating apparatus. 1,742,023; Dec. 31.
- Bradley, Leroy S., Los Angeles, Calif. Lug lock for tires. 1,704,910; Mar. 12.
- Bradley, Leslie C., assignor to W. & T. Avery, Limited, Birmingham, England. Coin-free mechanism. 1,732,352; Oct. 22.
- Bradley, Leslie L., and E. M. Young, McLaughlin, S. Dak. Corn harvester. 1,730,056; Oct. 1.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, New York, N. Y. Bleaching of pulp. 1,705,897; Mar. 19.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, Plattsburg, N. Y. Production of pulp. 1,722,993; Aug. 6.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, Plattsburg, assignors to Bradley-McKeefe Corporation, New York, N. Y. Treatment of residual liquor. 1,702,586; Feb. 19.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, Plattsburg, assignors to Bradley-McKeefe Corporation, New York, N. Y. Production of composite cooking liquor. 1,702,587; Feb. 19.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, assignors to Bradley-McKeefe Corporation, New York, N. Y. Production of alkali-metal carbonates. 1,702,588; Feb. 19.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, assignors to Bradley-McKeefe Corporation, New York, N. Y. Production of caustic alkali and other products. 1,702,589; Feb. 19.
- Bradley, Linn, Montclair, N. J., and E. P. McKeefe, assignors to Bradley-McKeefe Corporation, New York, N. Y. Bleached chemical wood pulp and making. 1,730,315; Oct. 1.
- Bradley-McKeefe Corporation. (See Bradley, L., and McKeefe, assignors.)
- Bradley, Merrill I., Detroit, Mich., assignor to Universal Power Shovel Company. Mechanism for power shovels and the like. 1,726,210; Aug. 27.
- Bradley, Merrill I., Detroit, Mich., assignor to Universal Power Shovel Company. Control mechanism. 1,733,050; Oct. 22.
- Bradley, Milton, Company. (See Stott, Emma B., assignor.)
- Bradley, Philip E., Minneapolis, Minn. Selective display device. 1,715,737; June 4.
- Bradley, Theodore F., Montclair, N. J. Synthetic resin composition and making same. 1,722,554; July 30.
- Bradley, Thomas B., Du Bois, Pa. Bottle-opening device. 1,741,607; Dec. 31.
- Bradley Transportation Company. (See Savage, Seward M., assignor.)
- Bradley Washfountain Company. (See Heine, Herman E., assignor.)
- Bradley Washfountain Company. (See Schlesinger, L., and Heine, assignors.)
- Bradley, William F., Rock Island, Ill. Bottle-capping machine. 1,732,353; Oct. 22.



- Bradner, Donald B., assignor to The Champion Coated Paper Co., Hamilton, Ohio. Production of chemical wood pulp. 1,711,584; May 7.
- Bradner, Donald B., assignor to The Champion Coated Paper Company, Hamilton, Ohio. Calendering mineral-coated paper and product. 1,719,166; July 2.
- Bradner, Donald B., assignor to The Champion Coated Paper Company, Hamilton, Ohio. Coating paper. 1,733,524; Oct. 29.
- Bradner, Donald B., Edgewood, Md. and F. H. Beall, Newark, N. J. Making dinitrophenol. 1,723,761; Aug. 6.
- Bradner, Donald B., Hamilton, Ohio, and N. E. Oglesby, Edgewood, Md., assignors, by mesne assignments, to Federal Laboratories, Inc., Pittsburgh, Pa. Process and apparatus for dispersing irritants. Re17,365; July 9.
- Bradner, Hosea T. (See Young, Hugh C., assignor.)
- Bradshaw, Charles G., Grindstone, Pa. Switch-control mechanism. 1,730,037; Oct. 1.
- Bradshaw, George L., Indianapolis, Ind. Wall construction. 1,740,570; Dec. 24.
- Bradshaw, Grant D., Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,708,650; Apr. 9.
- Bradshaw, Grant D., Pittsburgh, assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,708,651; Apr. 9.
- Bradshaw, Grant D., Pittsburgh, assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,708,656; Apr. 9.
- Bradshaw, Grant D., Pittsburgh, assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa. Steam separator. 1,738,756; Dec. 10.
- Bradshaw, Hamilton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic film. 1,703,470; Feb. 26.
- Bradshaw, Hamilton, Wilmington, Del.; E. H. Nollau, Newburgh, N. Y.; and R. G. Woodbridge, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrocellulose composition. 1,703,415; Feb. 26.
- Bradshaw, Lawrence, and H. V. Dunham, Bainbridge, N. Y. Vegetable glue and making same. 1,703,133; Feb. 26.
- Bradshaw, Lawrence, and H. V. Dunham, Bainbridge, N. Y. Adhesive material and making. 1,703,134; Feb. 26.
- Bradshaw, Lou, executor. (See Davis, Donald C.)
- Bradshaw, Richard, Montreal, Quebec, Canada. Metal furniture and making same. 1,710,202; Apr. 23.
- Bradshaw, Samuel S., and C. A. Martindale, Seminole, Okla. Rod coupling. 1,728,099; Sept. 10.
- Bradshaw, William M., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction watt hour meter. 1,725,051; Aug. 20.
- Bradshaw, William M., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Damping system. 1,734,199; Nov. 5.
- Bradshaw, William M., Wilkingsburg, and C. Oman, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. 1,705,711; Mar. 19.
- Brady, Charles T., Detroit, Mich. Magnifying and illuminating device. 1,717,754; June 18.
- Brady, Charles T., Detroit, Mich. Magnifying and illuminating device. 1,717,755; June 18.
- Brady, Charles T., Detroit, Mich. Heat guard. 1,717,756; June 18.
- Brady, Charles T., Detroit, Mich. Magnifying and illuminating device. 1,735,949; Nov. 19.
- Brady, Charles V. (See Carpenter, A. C., Pierce, Brady, and Howes.)
- Brady, Delfred F., Algiers, La. Hydraulic shock absorber. 1,707,111; Mar. 26.
- Brady, Edmund W., assignor to The Brady Electric & Manufacturing Company, New Britain, Conn. Insulator-supporting means. 1,729,702; Oct. 1.
- Brady, Edward J., assignor to The United Gas Improvement Company, Philadelphia, Pa. Apparatus for effecting contact between gases and divided solids. 1,731,223; Oct. 8.
- Brady Electric & Manufacturing Company, The. (See Brady, Edmund W., assignor.)
- Brady, James H., Louisville, Ky. Multifiller communion service. 1,709,771; Apr. 16.
- Brady, James H., assignor of one-half to (Mrs.) E. T. Norton, Louisville, Ky. Filling and dispensing apparatus. 1,709,770; Apr. 16.
- Brady, James J., et al. (See Thompson, Hans, assignor.)
- Brady, Jessica M., Mamaroneck, assignor to Bradka Holding Corporation, Rye, N. Y. Traveling bag. 1,705,149; Mar. 12.
- Brady, Jessica M., Mamaroneck, assignor to Bradka Holding Corporation, Rye, N. Y. Traveling bag. 1,705,150; Mar. 12.
- Brady, John B. (See Sargent, Lee W., assignor.)
- Brady, John D., El Dorado, Ark. Gas and sand trap for oil-well equipment. 1,710,606; Apr. 23.
- Brady, John S., Wilkes-Barre, Pa. Self-cleaning spigot filter. 1,713,370; May 14.
- Brady, Kathryn T., and H. R. L. White, Chicago, Ill.; said White assignor to said Brady. Chaise longue. 1,738,137; Dec. 3.
- Brady, Thomas, East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Door-operating mechanism. 1,714,460; May 21.
- Brady, Thomas, East Orange, N. J., assignor, by mesne assignments, to Otis Elevator Company, New York, N. Y. Lever latch. 1,717,492; June 18.
- Brady, Thomas, East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Elevator-door-control system. 1,738,686; Dec. 10.
- Brady, Thomas J. (See Greer, E. L., and Brady.)
- Brady, William B., New York, assignor to A. C. Henry, Inwood, Long Island, N. Y. Composite electrical brush or contact and producing same. 1,719,963; July 9.
- Bragdon, Herbert J., Chicago, Ill., assignor to C. A. Turbin, Madison, Wis. Spring winder and the like. 1,709,707; Apr. 16.
- Bragdon, Herbert J., assignor to Wisco Manufacturing Co., Madison, Wis. Sprayer and the like. 1,738,757; Dec. 10.
- Bragdon, Herbert J., Chicago, Ill., assignor to Wisco Manufacturing Co., Madison, Wis. Sprayer and the like. 1,738,863; Dec. 10.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,709,834; Apr. 23.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,713,992; May 21.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Power actuator. 1,731,041; Oct. 8.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Method of and apparatus for operating suction-actuated devices in connection with the suction passage of an internal-combustion engine. 1,735,630; Nov. 12.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Apparatus for operating suction-actuated devices in connection with the suction passage of an internal-combustion engine. 1,735,631; Nov. 12.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Apparatus for operating suction-actuated devices in connection with the suction passage of an internal-combustion engine. 1,735,632; Nov. 12.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Apparatus for operating suction-actuated devices in connection with the suction passage of an internal-combustion engine. 1,735,633; Nov. 12.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Fuelizer for internal-combustion engines operating power actuators. 1,735,634; Nov. 12.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Apparatus for operating suction-actuated devices in connection with the suction passage of an internal-combustion engine. 1,735,635; Nov. 12.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Power-actuated brake mechanism for automotive vehicles. 1,741,817; Dec. 31.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Power-actuated brake mechanism for automotive vehicles. 1,741,818; Dec. 31.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,741,819; Dec. 31.
- Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliersrath, Port Washington, assignors to Bragg-Kliersrath Corporation, Long Island City, N. Y. Brake mechanism for automotive vehicles. 1,741,820; Dec. 31.
- Bragg, Herbert E., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,722,033; July 23.
- Bragg-Kliersrath Corporation. (See Bragg, C. S., and Kliersrath, assignors.)
- Bragg, Ralph F., and G. A. Weston, Milo, Me. Writing desk. 1,717,433; June 18.
- Braibant, Nestor, Woluwe St. Pierre, Belgium. Gradometer. 1,732,397; Oct. 22.
- Braillard, Raymond. (See Goldschmidt, R. B., and Braillard.)
- Brain, George, Tiffin, Ohio, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory. Des. 77,877; Mar. 5.
- Brain, George, Tiffin, assignor to American Dresser Tunnel Kilns, Inc., Cleveland, Ohio. Combustion-chamber construction. 1,741,147; Dec. 31.
- Brainard, E. S., et al. (See Irwin, John F., assignor.)
- Brainard, Forest J., Brocton, N. Y. Basket handle. Re-17,210; Feb. 12.



- Brainard, George C., and J. A. Fitch, assignors to The General Fireproofing Company, Youngstown, Ohio. Metal-furniture construction. 1,729,475; Sept. 24.
- Brainard, O. L., et al. (See Irwin, John F., assignor.)
- Braincraft Company. (See Holland, Fritz, assignor.)
- Braithwaite, Isaac, & Son, Engineers Ltd. (See Banks, W., and Brooke, assignors.)
- Braley, Thomas E., Wichita, Kans. Siren. 1,718,405; June 25.
- Braly Manufacturing Company. (See Triulzi, Joseph, assignor.)
- Bramlette, Edgar E., Louisville, Ky. Printing for the blind. 1,726,803; Sept. 3.
- Bramley Machinery Corporation. (See Bramley-Moore, Swinfen, assignor.)
- Bramley-Moore, Swinfen, White Plains, assignor to Bramley Machinery Corporation, New York, N. Y. Crushing, grinding, and refining machine. 1,740,194; Dec. 17.
- Brammer, Anthony C., Wichita, Kans., assignor of one-third to J. T. McInnes and one-third to J. J. Fitzpatrick. Tulsa, Okla. Oil-well device. 1,710,653; Apr. 23.
- Brammer, Anthony C., Wichita, Kans., assignor of two-thirds to J. T. McInnes, Tulsa, Okla. Stuffing box. 1,736,646; Nov. 19.
- Bramming, Carl, assignor to Delta Electric Company, Marion, Ind. Electric switch. 1,740,535; Dec. 24.
- Bramsen, Svend, and W. Hersleb, assignors, by mesne assignments, to Binks Manufacturing Company, Chicago, Ill. Detachable-drive for agitators. 1,728,658; Sept. 17.
- Bramwell, Francis H., Dunvegan, Hartford, England, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Heat-transferring apparatus. 1,708,387; Apr. 9.
- Bramwell, Francis H., Dunvegan, Hartford, England, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. High-pressure joint. 1,722,623; July 30.
- Branch, George. (See Johnson, Raymond A., assignor.)
- Branchaud, Ulric W., Holyoke, Mass. Electric water heater. 1,733,397; Oct. 29.
- Brand, Frederick F., Pittsfield, Mass., assignor to General Electric Company. Switch for potheads. 1,706,140; Mar. 19.
- Brand, Frederick F., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,713,214; May 14.
- Brand, Harold H., Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Garage outfit. 1,711,134; Apr. 30.
- Brand, Harold H., Cleveland, Ohio, assignor, by mesne assignments, to The Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,711,135; Apr. 30.
- Brand, Harold H., Cleveland, Ohio, assignor, by mesne assignments, to The Alemite Corporation, Chicago, Ill. Drive-fit nipple. 1,735,230; Nov. 12.
- Brand, Horace L., Chicago, Ill. Furniture. 1,725,438; Aug. 20.
- Brand, James C. (See Chase, L. W., and Brand.)
- Brand, Lee, New York, N. Y. Smokehouse. 1,704,650; Mar. 5.
- Brand, Ludwig A., Sioux City, Iowa. Radiocondenser. 1,737,074; Nov. 26.
- Brand, Samuel, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,702,861; Feb. 19.
- Brand, Samuel, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,706,726; Mar. 26.
- Brand, Samuel, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,736,067; Nov. 19.
- Brandau, Georg, Bremen, Germany. Mudguard for vehicles. 1,742,156; Dec. 31.
- Brandegger, Willy, Stuttgart, assignor to the firm Eugen Grill Spezialmaschinenfabrik, Salzwiesen, Truffenhäusen-Stuttgart, Germany. Sound-producing device. 1,698,296; Jan. 8.
- Brandenburg, Bertha, Escanaba, Mich. Direction indicator for motor vehicles. 1,697,411; Jan. 1.
- Brandenburg, Edwin B., New York, N. Y., assignor to Greenstone Silk Corporation. Textile fabric or similar article. Des. 78,087; Mar. 26.
- Brandenburg, Francis C., assignor to The Wood Shovel and Tool Company, Piqua, Ohio. Shovel handle. 1,727,333; Sept. 10.
- Brandenburg, Francis C., assignor to The Wood Shovel and Tool Company, Piqua, Ohio. Shovel handle. 1,727,364; Sept. 10.
- Brandenburg, Irene. (See Padgett, Claude S., assignor.)
- Brandenburg, Joseph F. (See Zimmermann, Paul G., assignor.)
- Brandenburg, Peter P., Escanaba, Mich. Sash holder. 1,721,102; July 16.
- Brandenberger, Jacques E., Neuilly-sur-Seine, France. Film printer. 1,717,957; June 18.
- Brandenberger, Oscar, Zurich, assignor to Zähler & Schless & Co., St. Gall, Switzerland. Lead coating of articles. 1,717,140; June 11.
- Brandes, Harold, Chicago, Ill. Lighter. Des. 78,334; Apr. 23.
- Brandes Laboratories, Inc. (See Anderson, Axel G., assignor.)
- Brandes Laboratories, Inc. (See Brown, Ralph L., assignor.)
- Brandes Laboratories, Incorporated. (See Clement, Lewis M., assignor.)
- Brandes Laboratories, Inc. (See Squire, Frank M., assignor.)
- Brandes Laboratories, Inc. (See Staunton, Le Roy W., assignor.)
- Brandes Laboratories, Inc. (See Thomas, Adolph A., assignor.)
- Brandes Laboratories, Inc. (See Vansickle, Melvin E., assignor.)
- Brandes Products Corporation. (See Scharf, Hans, assignor.)
- Brandfon, David, Brooklyn, N. Y. Eyeglass cleaner and polisher. 1,712,325; May 7.
- Brandfon, Samuel. (See Cherniack, H., and Brandfon.)
- Brandis & Sons Inc. (See Willson, Robert W., assignor.)
- Brandley, John M., St. Louis, Mo. Odor absorbent. 1,728,656; Sept. 17.
- Brandman, Charles, Boston, assignor to Emerson Shoe Manufacturing Company, Rockland, Mass. Store front or the like. Des. 80,105; Dec. 17.
- Brandon, Maurice H., Charlotte, N. C. Newspaper truck. 1,722,193; July 23.
- Brandon, Stephen A., Fresnay-sur-Sarthe, France. Machine for cutting ribbons from bias or straight woven textile fabric, leather, rubber, or other similar materials. 1,734,848; Nov. 5.
- Brandreth, Charles A., Ilford, England. Support for wire mattresses. 1,718,522; June 25.
- Brandsmas, Wiebold F. (See Romp, J., and Brandsmas.)
- Brandstetter, Josef, Chicago, Ill. Reversing gearing for tapping machines. 1,715,637; June 4.
- Brandt Automatic Cashier Co. (See Brandt, Edward J., assignor.)
- Brandt, David G., Westfield, N. J., assignor, by mesne assignments, to Heat Treating Company, New York, N. Y. Distilling liquid mixtures. 1,713,254; May 14.
- Brandt, David G., Westfield, N. J., assignor, by mesne assignments, to Heat Treating Company, New York, N. Y. Method of and apparatus for distilling and fractionating oil. 1,713,255; May 14.
- Brandt, David G., Westfield, N. J., assignor, by mesne assignments, to Heat Treating Company, New York, N. Y. Apparatus for distilling liquid mixtures. 1,713,256; May 14.
- Brandt, Earl M., Ironton, Ohio. Gas heating stove. 1,712,687; May 14.
- Brandt, Edgar W., Paris, France. Ordnance material. 1,730,800; Oct. 8.
- Brandt, Edward J., assignor to Brandt Automatic Cashier Co., Watertown, Wis. Coin-delivery casing. Des. 77,636; Feb. 5.
- Brandt, Ernest G., Akron, Ohio. Ladder attachment. 1,705,000; Mar. 12.
- Brandt, Eugene, Geneva, Switzerland. Device for locking at least two nuts. 1,733,858; Oct. 29.
- Brandt, Fokko, Kansas City, Mo., assignor to Brandt-Krell Engineering Company, Kansas City, Kans. Clamp-bolt mechanism. 1,715,982; June 4.
- Brandt, Fokko, Kansas City, Mo., assignor to Brandt-Krell Engineering Company, Kansas City, Kans. Clamp-bolt mechanism. 1,715,983; June 4.
- Brandt, George, assignor to Benrus Watch Case Company, New York, N. Y. Flexible chain. 1,708,466; Apr. 9.
- Brandt, Henry C., St. Paul, Minn. Screw driver and drill machine. 1,738,687; Dec. 10.
- Brandt, Henry B., North St. Paul, Minn. Pressure-tank cap. 1,698,690; Jan. 8.
- Brandt, John, New Rochelle, assignor to Autosales Corporation, Long Island City, N. Y. Coin-controlled vending machine. 1,697,161; Jan. 1.
- Brandt, John W., Elyria, Ohio. Golf bag. 1,700,734; Feb. 5.
- Brandt, John W., Elyria, Ohio. Boston bag. 1,710,041; Apr. 23.
- Brandt, Jos., & Bro. (See Havel, Joseph, assignor.)
- Brandt-Krell Engineering Company. (See Brandt, Fokko, assignor.)
- Brandt, Otto F. K., Hamburg, Germany. Plant for economically using caloric energy. 1,737,075; Nov. 26.
- Brandt, Richard, Berge-dorf, near Hamburg, Germany. Oxidizing potassium ferrocyanide to potassium ferricyanide. 1,732,117; Oct. 15.
- Brandt, Rudolph, assignor to Petry & Brandt, San Francisco, Calif. Combination drill and countersink. 1,711,012; Apr. 30.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,147; Apr. 2.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,148; Apr. 2.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,149; Apr. 2.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,150; Apr. 2.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,151; Apr. 2.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,152; Apr. 2.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,260; Apr. 16.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,261; Apr. 16.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,262; Apr. 16.
- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,263; Apr. 16.



- Brandt, Stella, New York, N. Y., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,264; Apr. 16.
- Brandt, William C. (See Lalanne, P., and Armstrong, assignors.)
- Brandt, William F. (See Oakes, F. J., and Brandt.)
- Brandt, William F., assignor to Wayne Company, Ft. Wayne, Ind. Liquid measuring and dispensing apparatus. 1,710,917; Apr. 30.
- Brandt, William F., assignor to Wayne Company, Fort Wayne, Ind. Liquid-dispensing apparatus. 1,715,553; June 4.
- Brandt, William F., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind. Self-priming pumping apparatus. 1,716,105; June 4.
- Brandus, Ernst, Berlin, Germany. Method and apparatus for preparing materials and applications thereof. 1,705,057; Mar. 12.
- Brandwood, John, Birkdale, Southport, England. Fluid treatment of artificial-silk yarns. 1,720,760; July 16.
- Brandwood, John, Birkdale, Southport, and T. Brandwood, Elton, Bury, England. Collapsible spindle for the dyeing and analogous treatment of wound yarns. 1,717,832; June 18.
- Brandwood, Thomas. (See Brandwood, John and T.)
- Brannen, Arthur W., Brookline, Mass. Washing machine. 1,701,224; Feb. 5.
- Brannock, Charles F., Syracuse, N. Y. Foot-measuring instrument. 1,725,334; Aug. 20.
- Brannon, Arvis, Rome, Ga. Open fireplace. 1,734,849; Nov. 5.
- Bransky, Oscar E., and F. M. Rogers, assignors to Standard Oil Company, Whiting, Ind. Handling heavy oil residues. 1,698,471; Jan. 8.
- Branson, David E., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Telegraph repeater. 1,728,226; Sept. 17.
- Branson, David E., River Edge, N. J., assignor to American Telephone and Telegraph Company. Telegraph-monitoring system. 1,732,255; Oct. 22.
- Branson, Samuel J., Evanston, assignor to The Branson System, Inc., Chicago, Ill. Reinforced-concrete slab structure. 1,729,261; Sept. 24.
- Branson System, Inc., The. (See Branson, Samuel J., assignor.)
- Branson, Walter J., and E. M. Wright, assignors, by mesne assignments, to Robbins & Myers, Inc., Springfield, Ohio. Short-circuiting device. 1,733,216; Oct. 29.
- Brant, Joseph, Hoquiam, Wash. Automatic oil burner. 1,739,350; Dec. 10.
- Brantingham, Charles A. (See Hendrickson, W. H., and Brantingham.)
- Brantington, Gustaf S., assignor to William H. Keller, Inc., Grand Haven, Mich. Feed screw. 1,705,232; Mar. 12.
- Braren, Lorenz K., Munich, Germany. Injection of liquid fuel in internal-combustion engines. 1,736,647; Nov. 19.
- Braren, Lorenz K., assignor to the firm Friedrich Deckel Fabrik für Präzisionsmechanik und Maschinenbau, Munich, Germany. Engraving machine. 1,705,957; Mar. 19.
- Braren, Lorenz K., assignor to the firm Friedrich Deckel Fabrik für Präzisionsmechanik und Maschinenbau, Munich, Germany. Screw-slotting mechanism. 1,735,231; Nov. 12.
- Brasch, Ernest, Nezperce, Idaho. Attachment for harvesters. 1,735,950; Nov. 19.
- Brase, Wilhelm, assignor of one-half to C. Graaff, Berlin, Germany. Making chain-stitch seams. 1,699,423; Jan. 15.
- Brasel, Thomas C., Corbin, Ky. Clamp for railway-car wheels. 1,734,792; Nov. 5.
- Braselton, Chester H. (See Brockway, Carl P., assignor.)
- Braselton, Chester H. (See MacLaren, Fred B., assignor.)
- Braselton, Chester H., New York, N. Y. Liquid-elevating system. 1,724,178; Aug. 13.
- Braselton, Chester H., New York, N. Y. Making lead compounds. 1,734,285; Nov. 5.
- Braselton, Chester H., New York, and F. B. MacLaren, Jamaica, N. Y.; said MacLaren assignor to said Braselton. Inertia-operated pump. 1,703,983; Mar. 5.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, N. Y.; said MacLaren assignor to said Braselton. Fuel-supply system. 1,703,984; Mar. 5.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, N. Y.; said MacLaren assignor to said Braselton. Inertia pumping system. 1,711,169; Apr. 30.
- Braselton, Chester H., New York, and F. B. MacLaren, Jamaica, N. Y.; said MacLaren assignor to said Braselton. Fuel-feed system. 1,715,638; June 4.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, N. Y.; said MacLaren assignor to said Braselton. Vibration-operated pump. 1,716,759; June 11.
- Braselton, Chester H., New York, and F. B. MacLaren, Jamaica, N. Y.; said MacLaren assignor to said Braselton. Inertia-operating pump. 1,724,177; Aug. 13.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, Long Island, N. Y.; said MacLaren assignor to said Braselton. Vibration-operated pump. 1,735,449; Nov. 12.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, N. Y.; said MacLaren assignor to said Braselton. Pump. 1,739,944; Dec. 17.
- Braselton, Chester H., New York, and F. B. MacLaren, Malba, Long Island, N. Y.; said MacLaren assignor to said Braselton. Fuel-supply system. 1,740,450; Dec. 24.
- Braselton, Chester H., Toledo, Ohio. Making lead compounds. 1,728,388; Sept. 17.
- Brasher, Philip, Princeton, N. J. Apparatus for use in connection with water waves. 1,716,616; June 11.
- Brasington, Charles P., Cincinnati, Ohio, assignor to The International Printing Ink Corporation, New York, N. Y. Device and method for conveying viscous substances. 1,710,144; Apr. 23.
- Brasington, Charles P., Cincinnati, Ohio, assignor to The International Printing Ink Corporation, New York, N. Y. Mill roller. 1,740,940; Dec. 24.
- Brass Goods M'fg. Co. (See Hyatt, Frank S., assignor.)
- Brassack, William L., and H. E. Grau, Mount Lebanon Township, Allegheny County, Pa. Grit eliminator. 1,741,915; Dec. 31.
- Brassert, H. A., & Company et al. (See Andrews, C. W., and Chapman, assignors.)
- Brassert, H. A., & Company. (See Boynton, Arthur J., assignor.)
- Brassert, H. A., & Company. (See Brassert, H. A., Dougan, and von Maltitz, assignors.)
- Brassert, Herman A. (See Andrews, C. W., and Brassert.)
- Brassert, Herman A., Kenilworth, and C. E. Dougan, Chicago, Ill., and E. von Maltitz, Gary, Ind., assignors to H. A. Brassert & Company, Chicago, Ill. Gas-washing apparatus. 1,707,548; Apr. 2.
- Brasseur, Edgar J., and W. R. Geddes, Charleston, W. Va., assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for producing colored glass. 1,698,491; Jan. 8.
- Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Card-registration means for rotary duplicating machines. 1,712,247; May 7.
- Brassington, Charles, Joliet, Pa. Cable guide. 1,707,385; Apr. 2.
- Brastow, Frank C., Lisbon, N. H. Garbage-can container. 1,715,738; June 4.
- Braswell, Ralph T., and O. M. Flanders, Miami, Fla. Railway-crossing signal. 1,705,001; Mar. 12.
- Bratring, Kurt, Dresden, Germany. Method of and apparatus for treating foils of cellulose or derivatives thereof by means of suitable fluids. 1,728,471; Sept. 17.
- Bratt, Myrtle L., Cincinnati, Ohio. Extension foot for ladders. 1,718,891; June 25.
- Bratton, George S., assignor to Anheuser-Busch, Incorporated, St. Louis, Mo. Aerobic fermentation. 1,732,921; Oct. 22.
- Bratton, George S., assignor to Anheuser-Busch, Incorporated, St. Louis, Mo. Manufacture of yeast. 1,732,922; Oct. 22.
- Braucher, Edward F., Denver, Colo. Advertising disk. 1,699,831; Jan. 22.
- Brauer, Arthur H., assignor to Chicago Pump Company, Chicago, Ill. Operating electric switches and other mechanism. 1,698,427; Jan. 8.
- Brauer Bros., Inc. (See Brauer, Edward J., assignor.)
- Brauer, Edward J., assignor to Brauer Bros., Inc., St. Louis, Mo. Golf-tee holder. 1,702,890; Feb. 19.
- Brauer, Leo A. (See Irvin, J. L., and Brauer.)
- Brauer, Louis, and R. C. Turner, Petersburg, Ill. Steamer for removing cream and sterilizing cream cans. 1,717,182; June 11.
- Bräuer, Reinhold, Speyer-on-the-Rhine, Germany. Traction machine. 1,711,719; May 7.
- Brauer, Walter, Seminole, Okla. Pump piston. 1,728,591; Sept. 17.
- Brauer, Walter, assignor to Gulf Coast Machine & Supply Company, Beaumont, Tex. Oil and gas controller. 1,719,207; July 2.
- Braun, Adolf, New York, N. Y. Speed-control device for automotive vehicles. 1,722,034; July 23.
- Braun, Aquila R. (See Clisson, A. B., and Braun.)
- Braun, August J., Chicago, Ill. Fastener mechanism. 1,722,270; July 30.
- Braun, Carl A., Munich, Germany, assignor, by mesne assignments, to American Bitumuls Company, San Francisco, Calif. Stable aqueous emulsion and making the same. 1,737,491; Nov. 26.
- Braun, Carl E., Camas, Wash. Measuring the length, speed, and continuity of webs. 1,703,387; Feb. 26.
- Braun, Carl F., Pasadena, Calif. Bubble still. 1,725,052; Aug. 20.
- Braun, Carl F., Pasadena, Calif. Floating head for tube nests. 1,737,564; Dec. 3.
- Braun, Erich, Berlin, Germany. Shoewear and manufacturing the same. 1,729,204; Sept. 24.
- Braun, Ferdinand, et al., executors. (See Mauser, Alfons.)
- Braun, Herman F. (See Laughlin, S. L., and Braun.)
- Braun, Herman F., assignor to Cleveland Steel Products Corporation, Cleveland, Ohio. Fire-box construction. 1,715,333; May 28.
- Braun, Karl. (See Früh, P., and Braun.)
- Braun, Philip N., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Steaming-valve mechanism for pressing machines. 1,700,484; Jan. 29.
- Braune, Anton. (See Heussler, J., and Braune.)
- Braune, Isidor D., Fitchburg, Mass. Portable window scaffold. 1,711,081; Apr. 30.



- Braungart, George, jr., and F. Kaye, sr., Atlanta, Ga. Machine for scoring ice by fluid-pressure means. 1,732,325; Oct. 22.
- Braunger, Charles A. (See Larson, E. L., and Braunger.)
- Brauning, Karl A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 1,696,998; Jan. 1.
- Brauning, Karl A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,703,812; Feb. 26.
- Braunsdorf, Otto. (See Holzapfel, E., and Braunsdorf.)
- Braunsdorf, Otto, and E. Holzapfel, Höchst-on-the-Main, and P. Nawiasky, Ludwigshafen-on-the-Rhine, Germany, assignors to Grassell Dyestuff Corporation, New York, N. Y. Derivatives of the benzanthrone series and making same. 1,712,646; May 14.
- Bratigam, Paul P., Chicago, Ill. Fire and heat deflector and heat retainer. 1,725,974; Aug. 27.
- Bravo, Eligio, Santiago, Cuba. Sanitary container for toothpicks. 1,730,312; Oct. 1.
- Brawer, George H., assignor of one-half to M. Rabinowitz and E. Rabinowitz, Dallas, Tex. Lock-head key. 1,718,408; June 25.
- Bray, William J., assignor to Galerie d'Art Moderne, Inc., Washington, D. C. Lamp base. Des. 79,496; Oct. 1.
- Braybrooks, William M., Philadelphia, assignor to Gulf Oil Burner Company, Pittsburgh, Pa. Mounting for oil burners. 1,718,681; June 25.
- Brayton, Corey C., Oakland, Calif., assignor to American Manganese Steel Company, Chicago, Ill. Composite pin for conveyer links. 1,712,248; May 7.
- Brayton, Corey C., Berkeley, Calif., assignor to American Manganese Steel Company, Chicago Heights, Ill. Conveyer. 1,731,609; Oct. 15.
- Brayton, Harold M., Dover, N. J., assignor to Secretary of War of the United States. Combination fuse and bomb. 1,719,359; July 2.
- Braz, Jack J., Brooklyn, assignor to American Metal Products Co., New York, N. Y. Smoker's stand. 1,722,729; July 30.
- Brazell, Fred W., St. Joseph, Mo. Metallic weather strip. 1,701,969; Feb. 12.
- Brazell, Fred W., and O. W. Brazell, St. Joseph, Mo. Metallic weather strip. 1,734,711; Nov. 5.
- Brazell, Otis W. (See Brazell, Fred W. and O. W.)
- Brdar, John, Chicago, Ill. Smoke consumer. 1,699,424; Jan. 15.
- Brecht, George, assignor to Weston Paper and Mfg. Co., Dayton, Ohio. Display rack. 1,705,747; Mar. 19.
- Brecht, George F. (See Eckert, A. C., and Brecht.)
- Brecht, George F., Richmond Hill, and A. C. Eckert, Pelham, N. Y. Cord bracelet for wrist watches. 1,731,370; Oct. 15.
- Breconier, Rayn, and A., G. Sherrill, and A. D. Donnell, assignors to The Rath Packing Company, Waterloo, Iowa. Combination shipping slip. 1,718,214; June 25.
- Breeding, Ruth W., Philadelphia, Pa., now, by judicial order, R. G. Williams. Eye dropper. 1,736,731; Nov. 19.
- Breene, Robert G. (See Barlow, L. P., and Breene.)
- Breene's Manufacturing Company. (See Harris, Ford W., assignor.)
- Breer, Carl, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Drive chain. 1,704,279; Mar. 5.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Thermostatic valve control. 1,700,428; Jan. 29.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Combustion. 1,702,929; Feb. 19.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Furnace construction. 1,708,690; Apr. 9.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Circulating heater. 1,719,500; July 2.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Control means for hydrocarbon burners. 1,729,060; Sept. 24.
- Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Hydrocarbon burner. 1,741,553; Dec. 31.
- Breest, Francis, and O. Hervig, Laurel, Miss. Power-operated grain-door table. 1,732,217; Oct. 22.
- Breeze Corporations Inc. (See Fow, Raymond S., assignor.)
- Breeze, George A., Detroit, Mich. Vaporizer for internal-combustion engines. 1,729,564; Sept. 24.
- Brégeaut, Lucien, Paris, France. Gas-producing apparatus. 1,707,249; Apr. 2.
- Bregère, Louis J., Neuilly-sur-Seine, France. Valveless internal-combustion engine. 1,729,242; Sept. 24.
- Breguet, Louis, assignor to Société Anonyme des Ateliers d'Aviation Louis Breguet, Paris, France. Automatic landing brake for aeroplanes. 1,727,696; Sept. 10.
- Brehm, Joseph R., Chicago, Ill. Manufacturing cheese. 1,704,458; Mar. 5.
- Breidenbach, Henry C., Dayton, Ohio. Veneer-log-scoring mechanism. 1,699,582; Jan. 22.
- Bresch, Edgar W., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hot-filament rectifier. 1,740,494; Dec. 24.
- Breisig, Albert, Vienna, Austria. Process and apparatus for utilizing the heat of the waste gases of alternately working gas generators and that of the produced gas. 1,728,720; Sept. 17.
- Breisig, Albert, Vienna, Austria. Apparatus for vaporizing liquids by accumulated heat. 1,733,292; Oct. 29.
- Breisky, John V., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Light-relay system. 1,736,993; Nov. 26.
- Breisky, John V., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. 1,740,536; Dec. 24.
- Breitenbach, Harry P., Grosse Pointe, E. J. O'Neill and S. T. Kay, Detroit, Mich., assignors to said Breitenbach, O'Neill, and Kay, trustees. Collapsible bed. 1,710,858; Apr. 30.
- Breitenbach, Paul J., Neustadt-in-Mecklenburg, and A. D. J. Vollmert, Hochfeld, near Wülster, Germany. Apparatus for suspending skins, hides, and the like. 1,715,187; May 28.
- Breitenbach, Roy A., assignor to The Line-A-Time Mfg. Co., Inc., Rochester, N. Y. Paper or similar clamp. 1,719,422; July 2.
- Breitenfeld, Frederick. (See Armstrong, Robert, assignor.)
- Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Self-opening die head. 1,702,492; Feb. 19.
- Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Die head. 1,706,104; Mar. 19.
- Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Die head. 1,706,105; Mar. 19.
- Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Die head. 1,721,854; July 23.
- Breithaupt, Oscar, Detroit, Mich. Nail holder. 1,738,225; Dec. 3.
- Breitmeyer, Charles, Union City, N. J. Motion-picture player piano. 1,715,158; May 28.
- Breitzke, William, Detroit, Mich. Polishing composition. 1,709,819; Apr. 16.
- Brekke, Gustave H., Berkeley, Calif. Internal-combustion engine. 1,728,472; Sept. 17.
- Brell, Jules J., assignor of one-fourth to D. F. Stern and one-fourth to P. W. Hamilton, New York, N. Y. Scouring device. 1,714,584; May 28.
- Brell, Jules J., assignor of one-fourth to D. F. Stern and one-fourth to P. W. Hamilton, New York, N. Y. Holder for scouring devices. 1,721,067; July 16.
- Bremer & Bruckmann Aktiengesellschaft. (See Goltstein, Ewald, assignor.)
- Bremer, Frederick G., assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,727,365; Sept. 10.
- Bremer, George L., Wheeling, W. Va. Inkwell. 1,724,557; Aug. 13.
- Bremer, Harry A., Chicago, Ill., assignor to Bremér-Tully Manufacturing Company. Socket. 1,741,221; Dec. 31.
- Bremer, Norman C., Ithaca, N. Y. Chain lubricator. 1,717,365; June 18.
- Bremer-Tully Manufacturing Company. (See Bremer, Harry A., assignor.)
- Bre Miller, Clifford E., Chicago, Ill., assignor to Cook Laboratories, Inc. Syringe. 1,725,177; Aug. 20.
- Bremmerman, William H., assignor to Oswego Falls Corporation, Fulton, N. Y. Tapered fibrous-material bottle and the like. 1,708,783; Apr. 9.
- Bremmerman, William H., assignor to Oswego Falls Corporation, Fulton, N. Y. Apparatus for and method of bottoming paper bottles and the like. 1,708,828; Apr. 9.
- Bremner, Charles M., Chicago, Ill. Printing-plate-casting machine. 1,722,555; July 30.
- Bremner, Maurice D. K., Chicago, Ill. Table pad. 1,713,072; May 14.
- Brems, Jacob and W., Cincinnati, Ohio. Shoe shank. 1,713,738; May 21.
- Brems, William. (See Brems, Jacob and W.)
- Brenck, Hans. (See Rothe, F., and Brenck.)
- Breneman, Charles W., Company, The. (See Sarra, Wallace E., assignor.)
- Breneman, James B., et al. (See Bostick, Howard S., assignor.)
- Breneman, Paul E., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Doorcheck. 1,696,936; Jan. 1.
- Breneman, Paul E., assignor to The Studebaker Corporation, South Bend, Ind. Top construction. 1,696,937; Jan. 1.
- Breneman, Paul E., assignor to The Studebaker Corporation, South Bend, Ind. Body construction. 1,704,720; Mar. 12.
- Breneman, Paul E., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Body construction. 1,706,649; Mar. 26.
- Breneman, Paul E., and J. H. Bourgon, Detroit, Mich., assignors to The Studebaker Corporation, South Bend, Ind. Body construction. 1,712,547; May 14.
- Brenizer, Orson W., assignor of one-fourth to A. W. Groupe, Philadelphia, Pa. Cable support. 1,698,531; Jan. 8.
- Brenizer, Orson W., assignor of one-fourth to A. W. Groupe, Philadelphia, Pa. Cable support. 1,705,233; Mar. 12.
- Brenkert, Joseph W. (See Brenkert, Karl and J. W.)
- Brenkert, Joseph W., San Diego, Calif. Vehicle signaling direction apparatus. 1,741,821; Dec. 31.
- Brenkert, Joseph W. and K. Highland Park, Mich. Light-projecting machine. 1,738,941; Dec. 10.
- Brenkert, Joseph W. and K., Detroit, Mich. Stereopticon projector. 1,738,943; Dec. 10.
- Brenkert, Karl. (See Brenkert, Joseph W. and K.)
- Brenkert, Karl and J. W., Detroit, Mich. Spot and flood light apparatus. 1,722,975; July 30.



- Brenkert, Karl and J. W., Detroit, Mich. Projection apparatus. 1,722,976; July 30.
- Brenkert, Karl and J. W., Detroit, Mich. Projection apparatus. 1,738,942; Dec. 10.
- Brenkert, Karl and J. W., Detroit, Mich. Projection apparatus. 1,738,944; Dec. 10.
- Brenkert, Karl and J. W., Detroit, Mich. Framing shutter. 1,738,945; Dec. 10.
- Brennan, Arthur T., Detroit Mich. Screen. 1,711,670; May 7.
- Brennan, Charles T., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Punch holder for trimming machines. 1,700,735; Feb. 5.
- Brennan, Charles T., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Roll feed for metal-heading machines. 1,700,736; Feb. 5.
- Brennan, Charles T., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Tool holder for double-stroke solid die headers. 1,713,071; May 14.
- Brennan, Daniel A., Chicago, Ill. Vanity case. 1,730,555; Oct. 8.
- Brennan, Edward J., Oelwein, Iowa, and L. L. Neebe, Woodbury, N. J. Locomotive frame. 1,709,708; Apr. 16.
- Brennan, Edward J., Harrisburg, Pa. Commodity container. 1,733,114; Oct. 29.
- Brennan, Edward M., Springfield, Ohio, and E. H. Hussey, Minneapolis, Minn., assignors to The Bauer Brothers Company, Springfield, Ohio. Feeding device. 1,713,593; May 21.
- Brennan, Edward M., and A. P. Daniel, assignors to The Bauer Brothers Company, Springfield, Ohio. Attrition mill. 1,737,183; Nov. 26.
- Brennan, John F., and C. W. Kreher, New Orleans, La. Tamping machine. 1,714,345; May 21.
- Brennan, Joseph B., Lexington, Mass. Intake muffler for air blowers. 1,729,027; Sept. 24.
- Brennan, Mark F., assignor to International Textbook Company, Scranton, Pa. Bookmaking machine. 1,705,394; Mar. 12.
- Brennan, Thomas, assignor to J. I. Case Threshing Machine Company, Racine, Wis. Seeding machine. 1,705,234; Mar. 12.
- Brennan, Thomas, assignor to J. I. Case Company, Racine, Wis. Seeding machine. 1,735,232; Nov. 12.
- Brenne, Arild M., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Side bearing. 1,698,711; Jan. 15.
- Brenne, Arild M., assignor to W. H. Miner, Inc., Chicago, Ill. Testing frame. 1,737,565; Dec. 3.
- Brennen, John B., Atlanta, Ga. Separator. 1,713,371; May 14.
- Brennen, John B., Atlanta, Ga. Cotton-cleaner beater shaft. 1,742,129; Dec. 31.
- Brenner, Charles M., Shreveport, La. Ice-cream container. 1,726,469; Aug. 27.
- Brenner, Edward, Haverhill, Mass. Shoe and method of making and ornamenting the same. 1,717,183; June 11.
- Brenner, Harry. (See Kaplan, Samuel, assignor.)
- Brenner, Isidor E., Chicago, Ill. Dental casting machine. 1,700,119; Jan. 29.
- Brenner, Paul, Chicago, Ill. Receptacle. 1,713,328; May 14.
- Brenzinger, Julius, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn. Soldering mechanism. 1,702,808; Feb. 19.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Cover-feeding means. 1,715,984; June 4.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Chemical Engineering Corporation, Bridgeport, Conn. Reel. 1,724,002; Aug. 13.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Chemical Engineering Corporation, Bridgeport, Conn. Dyeing machine or the like. 1,737,141; Nov. 26.
- Bresemann, Roy J., Waupaca, Wis. Wrench. 1,702,148; Feb. 12.
- Bresler, Benjamin R., Bridgeport, Conn. Valve-operating mechanism. 1,710,289; Apr. 23.
- Bresnahan, George T., Iowa City, Iowa. Foot support. 1,701,026; Feb. 5.
- Bressan, Anthony J., Plainfield, N. J., assignor to Electro Thermal Unit Company, Philadelphia, Pa. Electric cooking device. 1,711,517; May 7.
- Bressler, Robert E., and A. F. Hirschel, assignors to Western Wheeled Scraper Company, Aurora, Ill. Machine for mixing road-making materials. 1,708,965; Apr. 16.
- Bressler, Solomon, Brooklyn, N. Y. Electron-discharge device. 1,699,872; Jan. 22.
- Bresson, Roy H., and E. V. Knoblock, Detroit, Mich. Electric marking device. 1,710,340; Apr. 23.
- Bretherton, Francis J. (See Bell, W. T., and Bretherton.)
- Breton, Jules L., Bellevue, France. Dish washing, sterilizing, and drying machine. 1,720,622; July 9.
- Bretschneider, Max. (See Gahlert, F. J., and Bretschneider.)
- Brett, Robert V., Chicago, Ill. Decorated fabric and producing the same. 1,718,409; June 25.
- Brett, William H. (See Allen, F. P., and Brett.)
- Brettler, Harry, Brooklyn, assignor to Ideal Lighting Novelty Co., New York, N. Y. Plate for lamp bases or articles of analogous nature. Des. 79,176; Aug. 13.
- Brettler, Harry, assignor to Ideal Lighting Novelty Co., Brooklyn, N. Y. Plate for smokers' sets. Des. 79,280; Aug. 27.
- Breunig, Earl S. and L. J., and W. B. Dolder, Somonauk, Ill. Combined tractor and farm implement. 1,707,075; Mar. 26.
- Breunig, Edmund, Hagen, Germany, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Obtaining thin nickel flakes. 1,707,217; Apr. 2.
- Breunig, Leroy J. (See Breunig, Earl S. and L. J., and Dolder.)
- Breunig, Edmund, Hagen, and O. Schneider, Frankfurt-on-the-Main, Germany, assignors, by mesne assignments, to The Electric Storage Battery Company, Philadelphia, Pa. Manufacturing nickel flakes for use as admixture in the active material of alkaline accumulators. 1,732,179; Oct. 15.
- Brewer, Charles A., Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Indicator for steam pressing irons. 1,708,048; Apr. 9.
- Brewer, Charles A., Noroton Heights, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Electric pressing appliance. 1,708,079; Apr. 9.
- Brewer, Charles A., assignor to M. V. Brewer, Noroton Heights, Conn. Apparatus for soil tillage. 1,717,911; June 18.
- Brewer, Charles A., Darien, Conn., assignor to Cannon Engineering Co., Brooklyn, N. Y. Electric steam-pressing appliance. 1,736,148; Nov. 19.
- Brewer & Company. (See Nahikian, K. M., Foster, and Belden, assignors.)
- Brewer, Edith D., Detroit, Mich. Pie vent. 1,738,226; Dec. 3.
- Brewer, James F., Washington, D. C. Drawing board. 1,740,389; Dec. 17.
- Brewer, Jerome E., Seattle, Wash. Loose-leaf binder. 1,711,987; May 7.
- Brewer, Luke O. (See Swim, L. C., Olivas, and Brewer.)
- Brewer, Mary V. (See Brewer, Charles A., assignor.)
- Brewer, Robert W. A., Jenkintown, assignor to H. F. Pitcairn, Bryn Athyn, Pa. Speed-reduction mechanism. 1,736,875; Nov. 26.
- Brewer, Robert W. A., Jenkintown, assignor to H. F. Pitcairn, Bryn Athyn, Pa. Lubricating system. 1,738,560; Dec. 10.
- Brewer, Robert W. A., Jenkintown, assignor to H. F. Pitcairn, Bryn Athyn, Pa. Valve adjusting means for internal-combustion engines. 1,741,677; Dec. 31.
- Brewer, Robert W. A., Jenkintown, assignor to H. F. Pitcairn, Bryn Athyn, Pa. Valve-operating mechanism. 1,741,678; Dec. 31.
- Brewer-Titchener Corporation, The. (See Bates, Charles H., assignor.)
- Brewer-Titchener Corporation, The. (See Evans, Lynn, assignor.)
- Brewer-Titchener Corporation, The. (See Higgins, George H., assignor.)
- Brewer, Warren, assignor to The P. R. Mitchell Co., New York, N. Y. Textile fabric. Des. 79,177; Aug. 13.
- Brewer, Warren, New York, N. Y., assignor to Thorndike Company, West Warren, Mass. Textile fabric. Des. 80,106; Dec. 17.
- Brewer, Warren, New York, N. Y., assignor to Thorndike Company, West Warren, Mass. Loom attachment. 1,705,324; Mar. 12.
- Brewer, William R., Duluth, Minn. Headlight. 1,700,760; Feb. 5.
- Brewer, William R., Duluth, Minn. Gas mixer. 1,741,280; Dec. 31.
- Brewin, Harry E., and A. C. Mackey, Pleasantville, N. J., assignors to Smith, Drum & Company, Incorporated, Philadelphia, Pa. Dyeing machine. 1,710,607; Apr. 23.
- Brewster, Henry, New York, N. Y. Combined license-plate holder and signal. 1,723,463; Aug. 6.
- Brewster, Ruby T., New York, N. Y. Perfume-dispensing novelty. 1,720,881; July 16.
- Brewster, William A., Redlands, Calif. Combination fire-place and heater. 1,706,768; Mar. 26.
- Brewster, William D., Syracuse, assignor to National Brake Company Inc., Buffalo, N. Y. Brake-operating device for flat-cars. 1,711,470; Apr. 30.
- Brewton, Philip. (See Chin, Tom H., assignor.)
- Brey, Harold E. (See Lichtenberg, E. H., and Brey.)
- Brey, Harold E., assignor to Koehring Company, Milwaukee, Wis. Brake lining. 1,704,963; Mar. 12.
- Brey, Harold E., assignor to Koehring Company, Milwaukee, Wis. Steering control for endless traction cranes. 1,717,757; June 18.
- Breyer, Frank G., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Condensing zinc vapor. 1,712,133; May 7.
- Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Reducing zinciferous materials. 1,712,132; May 7.
- Breyer, Frank G., and E. H. Bunce, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Reducing zinciferous materials. 1,712,134; May 7.
- Breyer, Robert, assignor to Phoenix Hosiery Company, Milwaukee, Wis. Stop motion for knitting machines. 1,705,235; Mar. 12.
- Brice, Albert L., Frederick, Md., assignor to The Frederick Iron & Steel Company, Frederick, Md. Automatic drain valve. 1,734,028; Nov. 5.
- Brice, Cecil H., Brighton, England. Exhaust silencer for internal-combustion engines. 1,740,805; Dec. 24.



- Brice, Henry E., New York, N. Y. Coupling. 1,740,328; Dec. 17.
- Brice, Roy W., Hollywood, Fla. Ice-cream cabinet. 1,717,310; June 11.
- Brice, William. (See Nater, R., and Brice.)
- Brich, John W., Jr., Neola, Iowa. Seeder. 1,738,349; Dec. 3.
- Bricken, John, Los Angeles, assignor to one-half to Regan Forge & Engineering Company, San Pedro, Calif. Automatic feed-control apparatus for well-drilling mechanisms. 1,736,518; Nov. 19.
- Bricker, Abraham H., assignor to J. Marcus, Brooklyn, N. Y. Waistband lining and method. 1,697,630; Jan. 1.
- Bricker, August. (See Bricker, Edward, sr., A., and E., jr.)
- Bricker, Edward, jr. (See Bricker, E., sr., A., and E., jr.)
- Bricker, Edward, sr., A., and E., jr., Brooklyn, N. Y. Arched window. Des. 77,738; Feb. 19.
- Bricker, Harry E., Ingomar, assignor to National Metal Products Company, Pittsburgh, Pa. Weather strip. 1,711,340; Apr. 30.
- Bricker, Harry E., Ingomar, assignor to National Metal Products Company, Pittsburgh, Pa. Doorsill. 1,729,243; Sept. 24.
- Bricker, Harry E., Ingomar, assignor to National Metal Products Company, Pittsburgh, Pa. Weather strip. 1,732,494; Oct. 22.
- Bricker, J. P., et al. (See Rochford, Thomas P., assignor.)
- Bricker, Orrin W., assignor to Una Welding & Bonding Company, Cleveland, Ohio. Starting switch. 1,702,590; Feb. 19.
- Bricker, W. A., et al. (See Rochford, Thomas P., assignor.)
- Brieglio, Alfred, Lawrence, Mass. Automobile fender. 1,716,106; June 4.
- Bridge, Adam E., Franklin, assignor to The Black-Clawson Company, Hamilton, Ohio. Paper-making machine. 1,709,112; Apr. 16.
- Bridge, Alexander C., Montreal, Quebec, Canada. Roller guide shoe for elevators. 1,713,165; May 14.
- Bridge, Walter G., Newton, and W. A. Pervier, Watertown, assignors to C. E. Parkhurst, Somerville, Mass. Dental apparatus. 1,719,750; July 2.
- Bridge, William T., La Fayette, Ga. Fire alarm. 1,726,013; Aug. 27.
- Bridgens, Walter R., Rivington, England. Device or apparatus for use in controlling the flow of fluids through systems. 1,726,211; Aug. 27.
- Bridgens, Walter R., Rivington, England. Jacking device for motor and like vehicles. 1,727,334; Sept. 10.
- Bridgeport Brass Company. (See Oakley, Erastus G., assignor.)
- Bridgeport Hardware Manufacturing Corporation. (See Curtis, Harry B., assignor.)
- Bridgeport Hardware Manufacturing Corporation, The. (See Sullivan, Ralph R., assignor.)
- Bridgeport Hardware Manufacturing Corporation, The. (See Thal, Bernhard, assignor.)
- Bridgeport Safety Emery Wheel Company, The. (See Hyde, Elwin R., assignor.)
- Bridges, George W., Minden, La. Saw-adjusting device. 1,716,107; June 4.
- Bridges, John A., Chanute, Kans. Plow attachment for disk cultivators. 1,732,923; Oct. 22.
- Bridges, Maude P., Augusta, Ga. Garment folder. 1,716,682; June 11.
- Bridges, Doctor S. B., Cliffside, N. C., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for box looms. 1,715,985; June 4.
- Bridgham, Arthur L., Boston, assignor to one-half to H. W. Maxwell, Wollaston, Mass. Bell ringer. 1,707,972; Apr. 9.
- Bridgham, Barton C., Oakland, Calif. Coffee-percolator sediment collector. 1,704,879; Mar. 12.
- Bridgman, Harry, New York, N. Y. Making boxes. 1,705,748; Mar. 19.
- Bridgman, Victor, London, England. Advertising sign and the like. 1,717,758; June 18.
- Bridgman, Victor, Bayswater, London, assignor to Solaflex Limited, London, England. Advertising sign. 1,726,944; Sept. 3.
- Bridgewater, Ernest R., Wilmington, Del., and A. S. Slack, Brooklyn, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process of and compound for treating rubber. 1,705,712; Mar. 19.
- Bridler, John J., San Francisco, Calif., assignor to one-half to A. Hampton, F. J. Miller, and F. Hansmann. Window construction. 1,740,724; Dec. 24.
- Bridwell, Chalton E. (See Imerman, Stanley, assignor.)
- Brieche, Ambrosius. (See Goldsmith, B. J., and Brieche.)
- Bried, Julien A., Oakland, Calif., assignor to Barrymore Concrete Mixer Corporation, San Francisco, Calif. Apparatus for handling concrete materials. 1,730,912; Oct. 8.
- Briegel, Gottlieb. (See Shaff, E. H., and Briegel.)
- Briel, John C., Sterling, Colo. Apparatus for purifying waste lubricating oil. 1,725,845; Aug. 27.
- Brierley, Walter, Miami Beach, Fla. Container. 1,727,227; Sept. 3.
- Brierley, William E., Cleveland, assignor to G. W. Gender, Cleveland Heights, Ohio. Thread twister. 1,722,072; July 23.
- Brierly, Samuel L. (See Kirk, A., and Brierly.)
- Briese, Alfred, and R. Callow, assignor to Wheeling Machine Products Company, Wheeling, W. Va. Device for closing and opening the vise jaws of automatic screw machines. 1,740,495; Dec. 24.
- Briggs, Arthur J., Syracuse, N. Y., assignor to Onondaga Steel Company, Inc. Metallurgical furnace. 1,697,259; Jan. 1.
- Briggs, Arthur J., Syracuse, N. Y., assignor to Onondaga Steel Company, Inc. Production of wrought iron. 1,713,887; May 21.
- Briggs, Arthur J., Syracuse, N. Y., assignor to Industries of America, Inc. Rotary kiln. 1,734,417; Nov. 5.
- Briggs, Charles H. (See Ebeling, W. B., and Briggs.)
- Briggs, Clyde S., Flossmoor, Ill. Device for pressing trousers. 1,732,803; Oct. 22.
- Briggs, George A., Redondo Beach, Calif. Radiator-cap ornament. Des. 79,550; Oct. 8.
- Briggs, Harry E., Anderson, Ind. Heater system for oil engines. 1,704,934; Mar. 12.
- Briggs, Laurance H., assignor, by mesne assignments, to British American Razors Limited, Toronto, Ontario, Canada. Safety razor. 1,727,392; Sept. 10.
- Briggs, Leland S. (See Doe, A. N., Briggs, Donaldson, and Polkosnik.)
- Briggs Manufacturing Company. (See Clark, James H., assignor.)
- Briggs Manufacturing Company. (See Maise, Herman C., assignor.)
- Briggs Manufacturing Company. (See Marshall, William, assignor.)
- Briggs Manufacturing Company. (See Marshall, W., and Behnke, assignors.)
- Briggs Manufacturing Company. (See Marshall, W., and De Smet, assignors.)
- Briggs Manufacturing Company. (See Marshall, W., and Kiehler, assignors.)
- Briggs Manufacturing Company. (See Marshall, W., and Levandoski, assignors.)
- Briggs Manufacturing Company. (See McBride, Clarence O., assignor.)
- Briggs Manufacturing Company. (See Morgana, C., Miller, and Willet, assignors.)
- Briggs Manufacturing Company. (See Morgana, C., and Platz, assignors.)
- Briggs Manufacturing Company. (See Pierson, William H., assignor.)
- Briggs Manufacturing Company. (See Roberts, R. S., and Wexelberg, assignors.)
- Briggs Manufacturing Company. (See Williams, Clifford J., assignor.)
- Briggs Manufacturing Company. (See Wren, W. J., and Willett, assignor.)
- Briggs Manufacturing Company. (See Yepsen, Ray C., assignor.)
- Briggs, Robert E., Cedaredge, Colo. Liquid-level gauge. 1,732,150; Oct. 15.
- Briggs, Sidney O., Suffolk, Va. Bottle. Des. 79,551; Oct. 8.
- Briggs, Stephen F., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Filament rheostat. 1,716,513; June 11.
- Briggs, Stephen F., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Tumbler lock. 1,741,093; Dec. 24.
- Briggs & Stratton Corporation. (See Briggs, Stephen F., assignor.)
- Briggs & Stratton Corporation. (See Fitzgerald, John W., assignor.)
- Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
- Briggs, William C., Elkins Park, Pa. Hammer for rotary crushers. 1,717,759; June 18.
- Brigham, Martin E., Philadelphia, Pa., assignor, by mesne assignments, to J. B. Ford, jr., Detroit, Mich. Machine for stuffing and capping cans. 1,705,082; Mar. 12.
- Brigham, Walter I., Framingham, Mass. Dental clamp. 1,720,031; July 9.
- Bright, Alvin J., Christiansburg, Ohio. Carburetor. 1,737,184; Nov. 26.
- Bright, Barton R., El Dorado, Ark., assignor of twenty-four per cent to J. E. Catlin and twenty-five per cent to N. E. Hendrickson. Motor-oil cooler and separator. 1,716,338; June 4.
- Bright, Charles G., assignor to Paper Patents Company, Neenah, Wis. Color-depositing apparatus for paper-making machines. 1,709,969; Apr. 23.
- Bright, Seth L., assignor to G. F. Lathrop and J. J. Dodge, Detroit, Mich. Refrigerating method and apparatus. 1,700,429; Jan. 29.
- Bright, Seth L., assignor to G. F. Lathrop and J. J. Dodge, Detroit, Mich. Method and apparatus for cooling liquids. 1,700,430; Jan. 29.
- Bright, Seth L., assignor to G. F. Lathrop and J. J. Dodge, Detroit, Mich. Container. 1,706,436; Mar. 26.
- Bright Star Battery Company. (See Buchholz, Max. E., assignor.)
- Bright, Weston F., Longmeadow, Mass. Embroidery frame. 1,700,666; Jan. 29.
- Brightman, Henry M., Bradford, R. I., assignor to Hygienic Fibre Company, Incorporated, Versailles, Conn. Bandage roll. 1,730,114; Oct. 1.
- Brikner, Edward J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine. 1,706,375; Mar. 19.



- Brill, Abraham, assignor to The Republic Rubber Company, Youngstown, Ohio. Solid vehicle tire and similar article. 1,732,671; Oct. 22.
- Brill, J. G., Company, The. (See Adams, Walter S., assignor.)
- Brill, J. G., Company, The. (See Brooks, James A., assignor.)
- Brill, J. G., Company, The. (See Deal, E. T., and Scott, assignors.)
- Brill, J. G., Company. (See Latshaw, Elmer, assignor.)
- Brillie, Eugene, Paris, France. Coupling of locomotive axles. 1,724,991; Aug. 20.
- Brillion Iron Works. (See Ohlsen, Mark P., assignor.)
- Brillo Manufacturing Company. (See Field, Crosby, assignor.)
- Brillo Manufacturing Co. (See Morin, Louis H., assignor.)
- Brimm, Daniel J., jr., West Hempstead, N. Y.; assignor to Ireland Aircraft, Incorporated. Flying-boat hull. 1,702,533; Feb. 19.
- Brimm, Daniel J., jr., West Hempstead, N. Y., assignor to Ireland Aircraft Inc. Aeroplane landing gear. 1,703,222; Feb. 26.
- Brimm, Daniel J., jr., West Hempstead, N. Y., assignor to Ireland Aircraft, Inc. Control mechanism. 1,720,661; July 16.
- Brinell, Joseph, Reading, Pa. Making lined bearings. 1,733,110; Oct. 29.
- Brinckerhoff, Francis M., Suffern, N. Y., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Poising the passageway member in an articulated car unit. 1,713,166; May 14.
- Briner, Emil A., East Orange, N. J. Heating and ventilation of paper-pulp-grinding buildings. 1,713,510; May 21.
- Brings, John J., South Milwaukee, Wis., assignor to The Christensen Air Brake Company, Cleveland, Ohio. Automatic valve mechanism for straight and automatic air-brake systems. 1,716,027; June 4.
- Brink and Cotton Manufacturing Company, The. (See Brink, Frederick, assignor.)
- Brink, Frederick, Stratford, assignor to The Brink and Cotton Manufacturing Company, Bridgeport, Conn. Vise. 1,720,464; July 9.
- Brinker, Frederick, assignor to National Lead Company, St. Louis, Mo. Ball handle and attaching the same. 1,700,215; Jan. 29.
- Brinkerhoff, Archibald R., Los Angeles, Calif. Spring action for firearm hammers. 1,711,874; May 7.
- Brinkhaus, Hermann F. C., Rendsburg, Germany. Face-protecting device. 1,699,652; Jan. 22.
- Brinkley, John M., Chicago, Ill. Mixing apparatus. 1,708,493; Apr. 9.
- Brinkman, Albert A., assignor of one-half to E. M. Huygens, St. Paul, Minn. Boxing toy. 1,726,644; Sept. 3.
- Brinkman, Harry J., Dayton, Ohio. Spring cue for toy use. 1,730,446; Oct. 8.
- Brinkman, Sebastian G., Fords, N. J. Making refrigerators. 1,712,978; May 14.
- Brinkman, Sebastian G., Perth Amboy, N. J. Fuel mixing and feeding device. 1,733,398; Oct. 29.
- Brinkmeyer, Edward G., and G. H. Rolfe, assignors to A. H. Handlan, St. Louis, Mo. Lantern. 1,716,514; June 11.
- Brinser, Elizabeth E., Elizabethtown, Pa. Automatic pattern stab. 1,717,352; June 18.
- Brintnell Manufacturing Company of Delaware. (See Stack, Maurice J., assignor.)
- Brinton, Charles C., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing insulation for vertical generators. 1,702,459; Feb. 19.
- Brinton, Walter, Wilmington, Del., assignor to American Manganese Steel Company, Chicago, Ill. Chill for casting railway crossings. 1,721,688; July 23.
- Brinton, Walter, Wilmington, Del., assignor to American Manganese Steel Company, Chicago, Ill. Mold for casting rail crossings. 1,721,687; July 23.
- Brinton, Willard C., assignor to Terminal Engineering Company, Inc., New York, N. Y. Object-holding rig for trucks. 1,720,204; July 9.
- Brinton, Willard C., assignor to Terminal Engineering Company, Inc., New York, N. Y. Guards and curtain closure. 1,725,750; Aug. 27.
- Brinton, William C., jr., Larkspur, Calif. Mixing device. 1,701,607; Feb. 12.
- Briscoe, Ernest V., Kerman, and G. Bitter, Fresno, Calif. Earthworking tool. 1,703,985; Mar. 5.
- Briskic, Joseph C., assignor to The Canister Company, Phillipsburg, N. J. Self-closing container top. 1,698,579; Jan. 8.
- Briskin, Joseph H., Los Angeles, Calif., assignor to S. Briskin, Chicago, Ill. Radiator construction. 1,730,719; Oct. 8.
- Briskin, Sam. (See Briskin, Joseph H., assignor.)
- Bristol Aeroplane Company Limited, The. (See Uwins, Cyril E., assignor.)
- Bristol Aeroplane Company, The. (See Fedden, Alfred H. R., assignor.)
- Bristol, Bennet B., and E. H., assignors to The Foxboro Company, Foxboro, Mass. Latch for instrument casings. 1,709,772; Apr. 16.
- Bristol, Carlton W., Naugatuck, assignor to The Bristol Company, Waterbury, Conn. Compensated absolute-pressure gauge. 1,709,561; Apr. 16.
- Bristol, Chester L., Elyria, Ohio. Electrothermal starting carburetor. 1,730,115; Oct. 1.
- Bristol Company, The. (See Bristol, Carlton W., assignor.)
- Bristol Company, The. (See Woolley, Henry S., assignor.)
- Bristol, Edgar H. (See Bristol, Bennet B. and E. H.)
- Brite, Michael. (See Botti, Ralph, assignor.)
- Brite, Oris B., Joplin, Mo. Lock. 1,711,082; Apr. 30.
- British American Razors Limited. (See Briggs. Laurence H., assignor.)
- British Cotton Industry Research Association, The, et al. (See Oxley, Arthur E., assignor.)
- British Dyestuffs Corporation Limited. (See Baddiley, J., Dootson, Shepherdson, and Thornley, assignors.)
- British Dyestuffs Corporation Limited. (See Cronshaw, C. J. T., and Naunton, assignors.)
- British Dyestuffs Corporation Limited. (See Hallwood, Anthony J., assignor.)
- British Dyestuffs Corporation Limited. (See Saunders, K. H., and Wignall, assignors.)
- British Electric Meters, Limited. (See Jolly, Richard W., assignor.)
- British Insulated Cables Limited. (See Packer, John L., assignor.)
- British Research Association for the Woolen and Worsted Industries, The. (See Jowett, P., and Marsh, assignors.)
- British Sure Seal Company Limited, The. (See Stephens, William A., assignor.)
- Britsch, Otto C., Woodhaven, assignor to H. Hyman, Brooklyn, N. Y. Combination resistance and reflector units. 1,721,292; July 16.
- Brittan, Edmund. (See Mapes, C. M., and Brittan.)
- Brittain, Alexander F., Federalsburg, Md. Fruit picker. 1,709,655; Apr. 16.
- Brittnacher, Frank M., Appleton, Wis. Oil gauge. 1,700,118; Jan. 29.
- Brittnacher, Frank M., Appleton, Wis. Oil gauge. 1,729,703; Oct. 1.
- Britton, Arthur T. (See Jackson, M. M., Walgren, and Britton.)
- Britton, Arthur T., San Jose, Calif. Washing-machine casing. Des. 77,461; Jan. 15.
- Britton, Carl, and C. McCormack, Crawfordsville, Ind. Amusement device. 1,739,945; Dec. 17.
- Britton, Edgar C. (See Hale, W. J., and Britton.)
- Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Purification of phenyl ethyl alcohol. 1,698,932; Jan. 15.
- Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Making ethylene glycol. 1,709,605; Apr. 16.
- Britton, George W. (See Sweet, M. A., and Britton.)
- Britton, James H. (See Simons, L. W., and Britton.)
- Britton, Joseph W. (See Hale, W. J., and Britton.)
- Britton, Joseph W. (See Williams, W. H., and Britton.)
- Britton, Joseph W., and W. H. Williams, Midland, Mich. Making aniline. 1,726,170; Aug. 27.
- Britton, Robert, assignor to John Crossley & Sons, Ltd., Halifax, England. Loom for weaving pile fabrics. 1,741,916; Dec. 31.
- Britton, Walter F., Anniston, Ala., assignor to Interstate Roofing & Foundry Co. Headlight shield. 1,708,866; Apr. 9.
- Brixey, Aaron E. (See Baughn, Samuel C., assignor.)
- Brixey, Austin D., Greenwich, Conn., assignor to The Replitura Corporation. Framing device. 1,703,568; Feb. 26.
- Brizzolara, Robert T., New Dorp, N. Y. Devices for producing ice cubes. 1,709,709; Apr. 16.
- Brizzolara, Robert T., New Dorp, N. Y. Device for producing ice cubes. 1,709,710; Apr. 16.
- Broadfoot, Hollis L., Golconda, Ill. Collapsible container. 1,707,841; Apr. 2.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding apparatus. Re17,519; Dec. 10.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding mechanism. 1,697,752; Jan. 1.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Sheet-counting mechanism. 1,700,365; Jan. 29.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Suction-feed roller. 1,706,952; Mar. 26.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Suction-feed roller. 1,707,209; Mar. 26.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Interleaving apparatus. 1,709,004; Apr. 16.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding mechanism. 1,709,005; Apr. 16.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Direction-changing mechanism for sheet feeders. 1,709,006; Apr. 16.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding mechanism. 1,716,948; June 11.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding mechanism. 1,719,044; July 2.



- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Co., Harrisburg, Pa. Counting and tabbing apparatus. 1,728,327; Sept. 17.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Company, Harrisburg, Pa. Conveyer and guide. 1,728,328; Sept. 17.
- Broadmeyer, Albert, assignor to The W. O. Hickok Mfg. Company, Harrisburg, Pa. Conveyer and guide. 1,728,329; Sept. 17.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet retarding and piling mechanism. 1,736,482; Nov. 19.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-feeding mechanism. 1,736,483; Nov. 19.
- Broadmeyer, Albert, assignor to The W. O. Hickok Manufacturing Company, Harrisburg, Pa. Conveyer and guide. 1,736,484; Nov. 19.
- Broadstone, Raymond C., Dayton, Ohio. Door check and tightener. 1,740,329; Dec. 17.
- Broadwell, Halvor S., and S. T. Thorpe, assignors to The Horton Manufacturing Company, Bristol, Conn. Fishing reel. 1,740,222; Dec. 17.
- Broadwell, William C., Brooklyn, N. Y. Vehicle cushioning and shock-absorbing device. 1,701,292; Feb. 5.
- Broadwell, William C., Brooklyn, N. Y. Vehicle cushioning or shock-absorbing device. 1,710,809; Apr. 30.
- Broadwell, William C., Brooklyn, N. Y. Vehicle fender. 1,716,300; June 4.
- Broadwick, Charles, San Francisco, Calif. Parachute. 1,737,913; Dec. 3.
- Broadwood, John, & Sons Limited. (See Collen, Robert H., assignor.)
- Brobeck, Edwin, assignor of one-third to L. W. Wren, Steamboat Springs, Colo. Gate. 1,714,942; May 28.
- Broberg, Isidor. (See Ljungström, F., Broberg, and Eriksson.)
- Brobst, John E., Schenectady, N. Y., assignor to General Electric Company. Automatic time-element relay and control system employing the same. 1,718,523; June 25.
- Broch, John, Corona, N. Y. Hatrack. Des. 77,878; Mar. 5.
- Brochhausen, Mathias L., Albany, N. Y. Farm gate. 1,701,294; Feb. 5.
- Brochon, George L., Woodhaven, N. Y. Pool-cue tip. 1,710,341; Apr. 23.
- Brochon, Valentine G., Woodhaven, N. Y. Combined foot brake pedal and accelerator. 1,711,988; May 7.
- Brock, Joseph, Erie, Pa. Burner. 1,712,326; May 7.
- Brockelsby, Ralph A., Cleveland, Ohio. Toothbrush and dentifrice holder. 1,716,617; June 11.
- Brockett, Bluford W., Cleveland Heights, assignor to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio. Ironing roll. 1,710,401; Apr. 23.
- Brockett, Bluford W., Cleveland Heights, assignor to E. W. Alyne, Cleveland, Ohio. Refrigerating apparatus. 1,719,208; July 2.
- Brockett, Bluford W., Cleveland Heights, assignor of one-half to The American Laundry Machinery Company, Cincinnati, Ohio, and one-half to United States Hoffman Machinery Corporation. Power press. 1,729,148; Sept. 24.
- Brockett, Bluford W., Cleveland Heights, Ohio, assignor of one-half to United States Hoffman Machinery Corporation, New York, N. Y., and one-half to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing machine. 1,732,924; Oct. 22.
- Brockett, Bluford W., Cleveland Heights, assignor to The Van Dorn Iron Works Co., Cleveland, Ohio. Speaking panel for jails. 1,741,917; Dec. 31.
- Brockman, James R. (See Slisz, John, assignor.)
- Brockman, Oscar, Louisville, Ky. Attaching composition soles. 1,714,943; May 28.
- Brockschmidt, Walter, Muskegon Heights, Mich., assignor to Link-Belt Company, Chicago, Ill. Chain link. 1,734,960; Nov. 12.
- Brockton Heel Company. (See Hansalpakar, Edwin, assignor.)
- Brockton Stay Company. (See Charleton, Cecil R., assignor.)
- Brockway, Carl P. (See Arbuckle, S. F., and Brockway.)
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Electric power system. 1,703,056; Feb. 19.
- Brockway, Carl P., Toledo, Ohio, assignor to Arcturus Radio Tube Company, Newark, N. J. Variable condenser. 1,717,912; June 18.
- Brockway, Carl P., Toledo, Ohio, assignor to Arcturus Radio Tube Company, Newark, N. J. Grid leak. 1,717,913; June 18.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Muffler for rotary gas engines. 1,718,201; June 18.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Compressor for refrigerating machines. 1,730,116; Oct. 1.
- Brockway, Carl P., Toledo, Ohio, assignor to C. H. Brasleton, New York, N. Y. Feeding mechanism. 1,737,356; Nov. 26.
- Brodbeck, Almer H. (See Stockstrom, A., and Brodbeck, assignors.)
- Brodbeck, Almer H., assignor to American Stove Company, St. Louis, Mo. Combined cock handle and plate. Des. 80,161; Dec. 24.
- Brodbeck, Almer H., assignor to American Stove Company, St. Louis, Mo. Door handle. Des. 80,162; Dec. 24.
- Broderick, David F., New York, N. Y. Hydraulic press. 1,703,223; Feb. 26.
- Broderick, Frank W. (See Gollnick, P. A., Ives, Broderick, and Arey.)
- Broderick, Martin T., Minneapolis, Minn. Bag. 1,701,097; Feb. 5.
- Broderick-Son-Raymond Co. (See Raymond, Lambert L., assignor.)
- Brodersen, Karl. (See Marx, K., Brodersen, and Bittner.)
- Brodersen, Karl. (See Onntz, P., Wesche, and Brodersen.)
- Broderson, Henry J., assignor to Standard Oil Company Whiting, Ind. Refining hydrocarbon oils. 1,698,428; Jan. 8.
- Brodfehrer, Bismarck B., Cincinnati, Ohio, assignor to Markem Machine Company, Boston, Mass. Marking machine. 1,700,820; Feb. 5.
- Brodie, William A., Toronto, Ontario, Canada. Projectile for breaking wire entanglements. 1,702,718; Feb. 19.
- Brodna, Bland. (See Castro, Manuel A., assignor.)
- Brodrick, Leo H., New York, N. Y. Container. 1,735,154; Nov. 12.
- Brodsky, Frank, New York, N. Y. Piston cover for containers. 1,699,873; Jan. 22.
- Broekhuysen, Willem C., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Storage-battery-charging system. 1,720,519; July 9.
- Broer, William E. (See McCaw, William S., assignor.)
- Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Resilient shank stiffener. 1,706,478; Mar. 26.
- Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,740,451; Dec. 24.
- Brogan, Michael F., Lawrence, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for separating shoes and their lasts. 1,721,767; July 23.
- Brogden Company. (See Brogden, Ernest M., assignor.)
- Brogden, Ernest M., Santa Monica, Calif., assignor to Brogdex Company, Winter Haven, Fla. Fruit-washing apparatus. 1,710,682; Apr. 30.
- Brogden, Ernest M., Santa Monica, Calif., assignor to Brogdex Company, Winter Haven, Fla. Preservative treatment of fresh fruit. 1,732,118; Oct. 15.
- Brogden, Ernest M., Santa Monica, Calif., assignor to Brogdex Company, Winter Haven, Fla. Apparatus for preparing fresh fruit for market. 1,732,180; Oct. 15.
- Brogden, Ernest M., Pomona, Calif., assignor to Brogden Company, Winter Haven, Fla. Fruit-treating apparatus. 1,736,759; Nov. 19.
- Brogden, Ernest M., assignor to Brogdex Company, Winter Haven, Fla. Protectively treating fruit and the like. 1,738,864; Dec. 10.
- Brogden, Joah, Melrose Park, assignor to David Lupton's Sons Company, Philadelphia, Pa. Worktable. 1,703,074; Feb. 19.
- Brogden, Joah, Melrose Park, assignor to David Lupton's Sons Company, Philadelphia, Pa. Cabinet. 1,712,024; May 7.
- Brogdex Company. (See Brogden, Ernest M., assignor.)
- Brogdex Company. (See Haworth, Albert, assignor.)
- Brogdex Company. (See Jamieson, Charles M., assignor.)
- Brogdex Company. (See Ricketts, Homer C., assignor.)
- Broido, Benjamin N., assignor to The Superheater Company, New York, N. Y. Power plant. 1,701,171; Feb. 5.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Making pipe structures. 1,718,328; June 25.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Water-tube boiler with superheaters. 1,722,073; July 23.
- Broido, Benjamin N., assignor to The Superheater Company, New York, N. Y. Boiler having superheater. 1,722,785; July 30.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Safety valve for high-pressure boilers. 1,733,575; Oct. 29.
- Brokaw, Charles A., Scotia, N. Y., assignor to General Electric Company. Adjustable condenser. 1,729,704; Oct. 1.
- Brokaw, James I., New York, N. Y. Body brace. 1,722,192; July 23.
- Bromann, Albert H., River Forest, assignor to Bromann Bros., Chicago, Ill. Refrigerated case. 1,721,145; July 16.
- Bromann Bros. (See Bromann, Albert H., assignor.)
- Bromfield, St. Clair, St. Louis, Mo., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Accounting and filing system. 1,713,945; May 21.
- Bromley, James A. (See Manou, H. C., and Bromley.)
- Bromley, John, & Sons, Incorporated. (See Worral, John H., assignor.)
- Bromley, John Z. (See Manou, H. C., and Bromley.)
- Bronander, Wilhelm B., Montclair, N. J. Roller bearing. 1,697,493; Jan. 1.
- Bronander, Wilhelm B., Montclair, N. J. Motor reduction gearing. 1,699,653; Jan. 22.
- Bronander, Wilhelm B., Montclair, N. J. Transmission mechanism. 1,702,627; Feb. 19.
- Bronander, Wilhelm B., Montclair, N. J. Fuel-control mechanism. 1,709,930; Apr. 23.
- Bronander, Wilhelm B., Montclair, N. J. Variable-speed transmission mechanism. 1,711,038; Apr. 30.



- Bronander, Wilhelm B., Montclair, N. J. Variable-drive mechanism. 1,723,327; Aug. 6.
- Bronander, Wilhelm B., Montclair, N. J. Friction-drive reduction gearing. 1,737,295; Nov. 26.
- Bronander, Wilhelm B., Montclair, N. J., assignor to International Fire Equipment Corporation, West New Brighton, N. Y. Fire-extinguisher support. 1,708,867; Apr. 9.
- Bronander, Wilhelm B., Montclair, N. J., assignor to American Machine and Foundry Company. Cut-off for cigarette machines. 1,729,436; Sept. 24.
- Bronander, Wilhelm B., Montclair, N. J., assignor to International Cigar Machinery Company. Cigar-filler feed. 1,740,571; Dec. 24.
- Bronander, Wilhelm B., Montclair, and J. W. Leary, Bloomfield, N. J., assignors to American Machine & Foundry Company. Candy-packaging machine. 1,710,689; Apr. 30.
- Broncato, Jack S., St. Bonaventure, N. Y. Carburetor. 1,714,156; May 21.
- Brong, Robert I., New York, N. Y. Fountain pen. 1,717,958; June 18.
- Bronn, Jeger I., Berlin-Charlottenburg, Germany. Airship. 1,731,840; Oct. 15.
- Bronner, Frederick H., Portland, Oreg. Personnel indicator. 1,711,222; Apr. 30.
- Bronner, Frederick H., Portland, Oreg. Certificate holder. 1,741,608; Dec. 31.
- Bronnert, Emile, Strasburg, France. High-speed motor-driven spindle. 1,699,583; Jan. 22.
- Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Closure member for valve stems. 1,699,277; Jan. 15.
- Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Air gauge. 1,717,493; June 18.
- Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Quick-detachable nut. 1,739,286; Dec. 10.
- Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Quick-detachable dust cap. 1,739,287; Dec. 10.
- Bronson, Budd, Lakewood, assignor to The Ohio Rubber Company, Cleveland, Ohio. Hair-rubber product. 1,701,526; Feb. 12.
- Brookbank, John, Detroit, Mich. Aircraft. 1,723,914; Aug. 6.
- Brookby, Harry E., Chicago, Ill. Cellular plaster. 1,720,032; July 9.
- Brooke, Frank W. (See Swindell, E. H., and Brooke.)
- Brooke, Frank W., Pittsburgh, Pa. Bar-heating furnace. 1,727,097; Sept. 3.
- Brooke, Frank W., Pittsburgh, Pa. Bar-heating furnace. 1,736,248; Nov. 19.
- Brooke, Frank W., assignor to W. Swindell & Brothers, Pittsburgh, Pa. Electric furnace. 1,735,419; Nov. 12.
- Brooke, Homer, deceased, Mount Vernon, N. Y.; M. I. I. Brooke, executrix. Glass-serving apparatus. 1,712,327; May 7.
- Brooke, Howard, Englewood, N. J. Building block and wall. 1,730,720; Oct. 8.
- Brooke, Mary I., executrix. (See Brooke, Homer.)
- Brooke, Robert G., Macclesfield, assignor to Holden & Brooke Limited, Manchester, England. Steam injector. 1,706,346; Mar. 19.
- Brooke, Robert G., Macclesfield, assignor to Holden & Brooke Limited, Manchester, England. Steam injector. 1,710,566; Apr. 23.
- Brooke, Robert G., assignor to Holden and Brooke Limited, Manchester, England. Injector. 1,710,608; Apr. 23.
- Brooke, Whitfield, et al. (See Schem, Walter, assignor.)
- Brooke, Wilfrid. (See Banks, W., and Brooke.)
- Brooker, William H., Bismarck, N. Dak. Radiator casing. 1,730,262; Oct. 1.
- Brookins Manufacturing Company. (See Brookins, Walter R., assignor.)
- Brookins, Walter R., assignor to Brookins Manufacturing Company, Dayton, Ohio. Liquid measure. Re17,202; Feb. 5.
- Brooklyn Metal Stamping Corporation. (See Engelson, David H., assignor.)
- Brooklyn Scientific Products Co. (See Lipschutz, Emanuel W., assignor.)
- Brookover, Andrew J., Dowingtown, Pa. Apparatus for screening paper stock. 1,737,296; Nov. 26.
- Brooks, Albert P., Boston, Mass. Rotary washing machine. 1,730,338; Oct. 1.
- Brooks, Arthur H., administrator. (See Willson, Robert W.)
- Brooks Bank & Trust Company, The. (See Green, James A., assignor.)
- Brooks, Boulbee, Birmingham, England. Stick seat. 1,697,552; Jan. 1.
- Brooks, Charles A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Controlling apparatus for highway-crossing signals. 1,726,098; Aug. 27.
- Brooks, Charles E. (See Casey, W. F. J., Cavin, and Brooks.)
- Brooks, Eugene C., Springfield, Vt. Rag-disintegrating machine. 1,740,644; Dec. 24.
- Brooks, Frederick W., sr., Virginia, Minn. Electric-current distributor. 1,721,585; July 23.
- Brooks, George R., Cheltenham, Pa. Roll-paper-dispensing device. 1,712,419; May 7.
- Brooks, Gus A., Mayslick, Ky. Antiglare apparatus. 1,741,609; Dec. 31.
- Brooks, Gus A., Mayslick, Ky. Automobile tag. 1,741,610; Dec. 31.
- Brooks, James A., Kirklyn, assignor to The J. G. Brill Company, Philadelphia, Pa. Car seat. 1,717,311; June 11.
- Brooks, James A., Kirklyn, assignor to The J. G. Brill Company, Philadelphia, Pa. Articulated car. 1,731,122; Oct. 8.
- Brooks, James A., Kirklyn, assignor to The J. G. Brill Company, Philadelphia, Pa. Gas-electric car. 1,736,695; Nov. 19.
- Brooks, James M., Atlanta, Ga. Churn. 1,716,363; June 11.
- Brooks, Jeremiah V., Liberal, assignor of one-fourth to J. A. Hull, Perth, Kans. Lister plow. 1,700,348; Jan. 29.
- Brooks, John C., Paterson, N. J. Textile-fabric structure. 1,730,263; Oct. 1.
- Brooks, Lewis C., assignor to The National Paper Can Company, Milwaukee, Wis. Making fibrous containers. 1,698,532; Jan. 8.
- Brooks, Lucius H., Atlanta, Ga. Razor strop. 1,723,762; Aug. 6.
- Brooks, Robert A., Chicago, Ill. Flushing apparatus for water-closets. 1,730,187; Oct. 1.
- Brooks, Rufus M., Roseburg, Oreg. Tape-feeding machine. 1,726,893; Sept. 3.
- Brooks, Samuel F., Indianapolis, Ind. Baffle. 1,719,209; July 2.
- Brooks, Samuel F., and G. W. Ferling, Indianapolis, Ind. Blower check valve. 1,702,105; Feb. 12.
- Brooks, Samuel J. (See Waldon, C. D., Brooks, and Robinson.)
- Brooks, Thomas E. (See Olson, C. A., Buch, and Brooks.)
- Brooks, Thomas R. (See Bedford, James P., assignor.)
- Brooks, William A. (See White, R. V., and Wynn, assignors.)
- Brookshire, Mark E. (See Gilbert, J. M., and Brookshire.)
- Broom, Harry S., High Wycombe, England. Rotary compressor, pump, and the like. 1,704,240; Mar. 5.
- Broome, Charles C., and R. M. Meyer, Santa Fe, N. Mex. Berth construction. 1,720,116; July 9.
- Broome, Ernest L., Tarrytown, N. Y. Clearing device for water racks. 1,698,387; Jan. 8.
- Brophy Automatic Air Dog Corporation. (See Brophy, James M., assignor.)
- Brophy, James M., assignor to Brophy Automatic Air Dog Corporation, Hattiesburg, Miss. Automatic hammer dog. 1,712,328; May 7.
- Brosius, Edgar E., Pittsburgh, Pa. Grab bucket. 1,717,549; June 18.
- Brosius, Edward E., Seattle, Wash., assignor to The Patrician Corporation, Portland, Oreg. Case for cigarette holders. 1,728,473; Sept. 17.
- Brosius, Edward E., Seattle, Wash., assignor to The Patrician Corporation, Portland, Oreg. Case for cigarette holders. 1,728,474; Sept. 17.
- Brosnatch, Andrew. (See Thien, A., and Brosnatch.)
- Brosse, Paul, Neuilly sur Seine, France. Film-gophering cylinder. 1,703,026; Feb. 19.
- Brothers, Edwin S., Brooklyn, N. Y. Power-driven tooth-brush. 1,738,876; Nov. 26.
- Brotz, Anton F., assignor to Kohler Company, Kohler, Wis. Multiple-unit generator system. 1,707,296; Apr. 2.
- Brotz, Anton F., assignor to Kohler Company, Kohler, Wis. Automatic generating plant. 1,734,557; Nov. 5.
- Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Waste-fitting assembly. 1,704,529; Mar. 5.
- Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Basket for dishwashers. 1,707,297; Apr. 2.
- Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Molding composition. 1,711,136; Apr. 30.
- Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Combination supply and overflow. 1,722,409; July 30.
- Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Swinging cover for dishwashers and the like. 1,739,121; Dec. 10.
- Brouse, William Henry D., Toronto, Ontario, Canada. Pump. 1,725,390; Aug. 20.
- Brow, Frank F., Hartford, Ohio. Map support for motorists. 1,733,293; Oct. 29.
- Browdy, Morris W., London, England. Bathing or swimming costume or garment. 1,723,402; Aug. 6.
- Brower, Clayton F., Pleasant Valley Township, Scott County, Iowa. Onion topper. 1,729,982; Oct. 1.
- Brower, William, Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Sound-reproducing apparatus. 1,732,495; Oct. 22.
- Brower, William M., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radio apparatus. 1,737,824; Dec. 3.
- Brower, William M., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Electron-tube socket. 1,739,748; Dec. 17.
- Brown, A. G., Boveri & Cie. (See Wirz, Ernst, assignor.)
- Brown, Aaron J., New York, N. Y. Hosiery inspection and display device. 1,698,388; Jan. 8.
- Brown, Ab, Incorporated. (See Brown, Abner L., assignor.)
- Brown, Abner L., assignor to Ab Brown, Incorporated, Elkin, N. C. Automatic combined turning lathe and sander for woodwork. 1,732,119; Oct. 15.
- Brown, Albert C., Chicago, Ill. Faucet handle. Des. 78,614; May 28.



- Brown, Albert C., Chicago, Ill. Faucet handle. 1,718,730; June 25.
- Brown, Albert C., Chicago, Ill. Faucet handle. 1,721,586; July 23.
- Brown, Albert C., Chicago, Ill. Faucet. 1,730,601; Oct. 8.
- Brown, Alex, McKeesport, Pa. Feeding gauge for platen presses. 1,720,655; July 9.
- Brown, Alexander T., Syracuse, N. Y. Antifriction bearing. 1,738,984; Dec. 10.
- Brown, Amos, Wilmington, Del., assignor to American Car and Foundry Company, New York, N. Y. Nailing attachment for mechanical hammers. 1,699,519; Jan. 22.
- Brown, Archie M., assignor to The Firestone Steel Products Company, Akron, Ohio. Making valves. 1,718,630; June 25.
- Brown, Arthur, Freeport, N. Y. Kitchen-utensil supporter. 1,697,711; Jan. 1.
- Brown, Arthur, Cranston, R. I., assignor to Brown and Sharpe Manufacturing Company. Machine tool. 1,700,974; Feb. 5.
- Brown, Arthur A., St. Louis, Mo. Ampul. 1,739,288; Dec. 10.
- Brown, Arthur J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Thrust bearing. 1,741,822; Dec. 31.
- Brown Bag Filling Machine Company. (See Brown, Joseph C., assignor.)
- Brown, Banks D., assignor to Capstan Glass Company, Connellsville, Pa. Tumbler or similar article. Des. 79,126; Aug. 6.
- Brown, Benjamin J., Gardner, Mass. Convertible table structure. 1,727,196; Sept. 3.
- Brown & Bigelow. (See Craft, Earl F., assignor.)
- Brown & Bigelow. (See Fischer, Howard L., assignor.)
- Brown & Bigelow. (See Harris, Blaine H., assignor.)
- Brown & Bigelow. (See Kristofek, Frank J., assignor.)
- Brown & Bigelow. (See Ward, Charles A., assignor.)
- Brown & Bigelow. (See Zeigler, Charles D., assignor.)
- Brown, Boettcher and Dienner. (See Brown, Charles A.)
- Brown, Boettcher & Dienner. (See Gardner, John E., assignor.)
- Brown, Bruce K., Terre Haute, Ind., assignor, by mesne assignments, to C. F. Burgess, Laboratories, Inc. Dover, Del. Battery depolarizer. 1,729,416; Sept. 24.
- Brown, Campbell, Belfast, Northern Ireland. Conveyor. 1,719,585; July 2.
- Brown, Carl A., and A. C. Nielsen, Cleveland, Ohio, assignors to General Electric Company. Gas burner. 1,729,149; Sept. 24.
- Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Dobby mechanism for looms. 1,703,471; Feb. 26.
- Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism. 1,714,993; May 28.
- Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,718,918; June 25.
- Brown, Charles, Pittsburgh, Pa. Vacuum-producing device. 1,704,241; Mar. 5.
- Brown, Charles A., Dunkirk, N. Y., assignor to C. A. Brown, A. H. Boettcher, and J. A. Diener, of the Copartnership of Brown, Boettcher and Diener, Chicago, Ill. Baling press. 1,736,338; Nov. 19.
- Brown, Charles A., et al. (See Brown, Charles A., assignor.)
- Brown, Charles A., et al. (See Earl, George G., assignor.)
- Brown, Charles L., Portland, Me. Strainer utensil. 1,734,995; Nov. 12.
- Brown, Charles M., Toronto, Ontario, Canada. Ammonium alum. 1,709,166; Apr. 16.
- Brown, Charles S., Dayton, Ohio. Engine. 1,720,779; July 16.
- Brown, Charles S., deceased; C. H. Simpson, executor, assignor to C. H. Simpson, D. E. McGugin, and C. C. Trabue, trustees, Nashville, Tenn. Heating apparatus. 1,701,716; Feb. 12.
- Brown, Chester B., Morrill, Nebr. Bean harvester. 1,713,372; May 14.
- Brown, Chester B., Morrill, Nebr. Motor-driven planter. 1,729,535; Sept. 24.
- Brown, Clarence D., Bayside, N. Y. Automobile signal. 1,706,479; Mar. 26.
- Brown, Clarence O., Marion, Ohio, assignor to The Fairfield Engineering Company. Storing material. 1,723,197; Sept. 17.
- Brown, Cletis, Manteca, Calif. Card game. 1,704,721; Mar. 12.
- Brown, Colin, assignor to The E. C. Brown Company, Rochester, N. Y. Hand sprayer. 1,716,301; June 4.
- Brown, Colin, assignor to The E. C. Brown Company, Rochester, N. Y. Sprayer. 1,723,403; Aug. 6.
- Brown Company. (See Bartlett, Leon O., assignor.)
- Brown Company. (See Brown, O. B., and Parker, assignors.)
- Brown Company. (See Brown, Paul, assignor.)
- Brown Company. (See Burningham, F. A., and Moore, assignors.)
- Brown Company. (See Ives, Charles Q., assignor.)
- Brown Company. (See McLaughlin, James E., assignor.)
- Brown Company. (See Parker, Howard, assignor.)
- Brown Company. (See Richter, George A., assignor.)
- Brown Company. (See Richter, G. A., and Lovering, assignors.)
- Brown Company. (See Richter, G. A., and Schur, assignors.)
- Brown Company. (See Richter, G. A., Schur, and Rasch, assignors.)
- Brown Company. (See Richter, G. A., and Van Arsdel, assignors.)
- Brown Company. (See Root, Bertwell C., assignor.)
- Brown Company. (See Schur, Milton O., assignor.)
- Brown Company. (See Schur, M. O., and Rasch, assignors.)
- Brown Company. (See Schur, M. O., and Robertson, assignors.)
- Brown Company. (See Sherman, John C., assignor.)
- Brown Company. (See Van Arsdel, Wallace B., assignor.)
- Brown Company. (See Van Arsdel, W. B., and Vannah, assignors.)
- Brown Company. (See Vannah, H. P., and Gosselink, assignors.)
- Brown, Cornelius, Tonkawa, Okla. Water gauge. 1,719,751; July 2.
- Brown, Curtis L., Peoria, Ill. Display fixture. 1,704,821; Mar. 12.
- Brown, David S. (See Stone, D. I., and Brown.)
- Brown, Davis, Bucyrus, Ohio. Side-cranking device. 1,729,150; Sept. 24.
- Brown, E. C., Company, The. (See Brown, Colin, assignor.)
- Brown, E. C., Company, The. (See Brown, Edward C., assignor.)
- Brown, E. C., Company, The. (See Waters, Gilbert C., jr., assignor.)
- Brown, Edgar A., et al. (See Hair, Charles E., assignor.)
- Brown, Edgar P., Roy, N. Mex. Piston. 1,701,489; Feb. 12.
- Brown, Edward C., assignor to The E. C. Brown Company, Rochester, N. Y. Dust gun. 1,715,986; June 4.
- Brown, Edwin F., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Nail machine. 1,701,098; Feb. 5.
- Brown, Edwin H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. 1,740,066; Dec. 17.
- Brown, Edwin J., Darlinghurst, near Sydney, New South Wales, Australia. Coin-fed machine for vending packaged goods. 1,724,638; Aug. 13.
- Brown, Eric, Baden, Switzerland. Multicylinder two-stroke-cycle internal-combustion engine. 1,703,718; Feb. 26.
- Brown, Eric, Baden, Switzerland. Scavenging port of two-stroke internal-combustion engine. 1,705,554; Mar. 19.
- Brown, Ernest R. and P. S., Wilkesburg, Pa. Thread protector and applying the same. 1,708,657; Apr. 9.
- Brown, Firmin C., Chicago, Ill. Self-feeding attachment for furnaces. 1,719,253; July 2.
- Brown Folding Machine Company. (See Reinhold, William, assignor.)
- Brown, Frank, Berkeley, Calif. Airplane. 1,718,892; June 25.
- Brown, Frank B., Dallas, Tex. Device for inking stencils in addressing machines. 1,728,922; Sept. 24.
- Brown, Frank J., Pittsburgh, Pa. Grating. 1,734,471; Nov. 5.
- Brown, Frederick B., Chester, England. Internal-combustion engine. 1,719,752; July 2.
- Brown, Frederick G. (See Edkins, B., and Brown.)
- Brown, Frederick S. (See Brown, George and F. S.)
- Brown, Fred W., Apollo, Pa. Galvanizing apparatus. 1,726,336; Aug. 27.
- Brown, Garrett A. (See Lantz, John W., assignor.)
- Brown, George and F. S., Boston, Mass. Bed. 1,730,965; Oct. 8.
- Brown, George A., Minneapolis, Minn. Vehicle body. Des. 80,215; Dec. 31.
- Brown, George C., Yakima, Wash. Fruit spray gun. 1,712,195; May 7.
- Brown, Glee J. (See Surdam, J. F., and Brown.)
- Brown, Harold. (See Provost, L. R., and Brown.)
- Brown, George C., Dallas, Tex. Heavier-than-air airship. 1,718,109; June 18.
- Brown, George H., Wilkesburg, Pa. Window-frame structure. 1,706,347; Mar. 19.
- Brown, George R., Croydon, near Sydney, Australia. Electric-current distribution. 1,698,389; Jan. 8.
- Brown, George R., Croydon, near Sydney New South Wales, Australia. Electrical fuse block. 1,700,582; Jan. 29.
- Brown, Harold H., St. Albans Vt. Insulation material. 1,725,335; Aug. 20.
- Brown, Harold W. (See Walle, L. S., and Brown.)
- Brown, Harry E., Tulsa, Okla., assignor to J. Grant, Los Angeles, Calif. Renewable cutter reamer. 1,708,932; Apr. 16.
- Brown, Harvey B. (See Anderson, John R., assignor.)
- Brown, Henry A., Cleveland, Ohio. Remote control circuit changer. 1,708,691; Apr. 9.
- Brown, Henry A., Huntington, W. Va., assignor to H. Ballengee, Rhodiss, N. C. Advertising device. 1,707,158; Mar. 26.
- Brown, Henry B., assignor to The "Simcup" Company Limited, London, England. Pipe coupling and analogous union. 1,724,822; Aug. 13.
- Brown, Henry K., Chicago, Ill., assignor to Cook Laboratories, Inc., Wilmington, Del. Hypodermic syringe. 1,704,678; Mar. 5.
- Brown, Henry K., Chicago, Ill., assignor to Cook Laboratories, Inc., Wilmington, Del. Hypodermic syringe. 1,728,261; Sept. 17.
- Brown, Henry K., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. 1,734,154; Nov. 5.



- Brown, Henry O., Jacksonville, Fla. Revolving automatic electric time switch. 1,726,174; Aug. 27.
- Brown, Herbert D., and C. A. Sabbah, Schenectady, N. Y., assignors to General Electric Company. Rectifying system. 1,717,812; June 11.
- Brown, Herbert D., and C. A. Sabbah, Schenectady, N. Y., assignors to General Electric Company. System of distribution. 1,722,194; July 23.
- Brown, Herbert E., assignor of one-half to M. H. Mandelbaum, Chicago, Ill. Variable-speed-transmission gearing. 1,740,725; Dec. 24.
- Brown, Horace P., Emeryville, Calif. Manifolding book. 1,738,633; Dec. 10.
- Brown Instrument Company, The. (See Brown, Richard P., assignor.)
- Brown Instrument Company, The. (See Brown, R. P., and Side, assignors.)
- Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
- Brown Instrument Company, The. (See Wetherill, Frederic V., assignor.)
- Brown Instrument Company, The. (See Winton, Lewis B., assignor.)
- Brown, Irving E., New Brunswick, and N. Hoffman, Perth Amboy, N. J. Motion-direction signal for motor vehicles. 1,707,900; Apr. 2.
- Brown, J. Alvin, et al. (See Hobson, John H., assignor.)
- Brown, James A., Jackson, Mich., assignor to The Gas Machinery Company, Cleveland, Ohio. Apparatus for supplying fuel for producing combustion. 1,728,389; Sept. 17.
- Brown, James, and J. M. Glass, Edinburgh, Scotland; said Brown assignor to said Glass. Appliance for indoor games of golf. 1,732,574; Oct. 22.
- Brown, James A., and W. J. Handley, assignors to Handley-Brown Heater Company, Jackson, Mich. Fluid-heating device and operating same. 1,714,843; May 28.
- Brown, James C., assignor, by mesne assignments, to E. Frederics, Inc., New York, N. Y. Hair and scalp treating apparatus. 1,698,533; Jan. 8.
- Brown, James C., assignor to E. O. Frederics, New York, N. Y. Hair-treating device. 1,712,489; May 14.
- Brown, James C., assignor, by mesne assignments, to E. Frederics, Inc., New York, N. Y. Pad. 1,734,961; Nov. 12.
- Brown, James F., Cincinnati, Ohio. Store front. Des. 77,526; Jan. 22.
- Brown, James M., deceased, by J. D. Brown, administratrix, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switch mechanism. 1,729,864; Oct. 1.
- Brown, James M., deceased, by J. D. Brown, Pittsburgh, Pa., administratrix, assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,730,875; Oct. 8.
- Brown, James Y., Knoxville, Tenn. Oven. 1,727,960; Sept. 10.
- Brown, James Y., et al. (See Febles, Ramon, assignor.)
- Brown, Jane D., administratrix. (See Brown, James M.)
- Brown, Jefferson F., assignor to U. S. Bedding Company, Memphis, Tenn. Adjustable support for spring frames. 1,727,630; Sept. 10.
- Brown, John L., Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reaction brush holder with radial adjustment. 1,730,913; Oct. 8.
- Brown, John M., assignor to Crystal Oil Burner Corp., Irvington, N. J. Fuel propelling and mixing device. 1,725,336; Aug. 30.
- Brown, John R., assignor to The Reliance Gauge Column Company, Cleveland, Ohio. Float-operated circuit closer. 1,738,688; Dec. 10.
- Brown, John R., and J. C. Mullinnix, assignors to The Reliance Gauge Column Company, Cleveland, Ohio. Float and making same. 1,738,689; Dec. 10.
- Brown, John W., Richmond, Va. Hanging shelf. Des. 77,667; Feb. 12.
- Brown, John W., jr., assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Meat-cutter knife. 1,703,762; Feb. 26.
- Brown, John W., jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Driving mechanism for power meat choppers. 1,718,893; June 25.
- Brown, John W., Mfg. Co., The. (See Donley, Harold B., assignor.)
- Brown, John W., Manufacturing Company, The. (See Jording, Christian H., assignor.)
- Brown, John W., Mfg. Co., The. (See Winchell, Harold B., assignor.)
- Brown, Josef O., Butte, Mont. Pen and pencil clamp. 1,704,075; Mar. 5.
- Brown, Joseph C., assignor to Brown Bag Filling Machine Company, Fitchburg, Mass. Measuring device for packaging machines. 1,719,685; July 2.
- Brown, Judd A., Bucksport, Calif. Insulated shipping container. 1,715,814; June 4.
- Brown, Kingsley M., Detroit, Mich. Abrasive and polishing tool. 1,708,603; Apr. 9.
- Brown, L. L., Paper Company. (See Daniels, Rupert B., assignor.)
- Brown, Ladura A., Uniontown, Pa. Safety coupler. 1,726,953; Aug. 27.
- Brown, Lawrence C. (See Campbell, L. E., and Brown.)
- Brown, Lee S., Atlanta, Ga. Arch support. 1,702,591; Feb. 19.
- Brown, Leo, Kansas City, Mo., assignor to Lincoln Stores, Inc., St. Louis, Mo. Store front. Des. 77,589; Jan. 29.
- Brown, Leslie A., et al. (See Roberts, Percy W., assignor.)
- Brown, Leslie A., Meriden, Conn. Clothespin. 1,710,342; Apr. 23.
- Brown, Leslie A., assignor to International Silver Co., Meriden, Conn. Coffeepot or similar article. Des. 78,376; Apr. 30.
- Brown, Lewis T., and H. D. Evans, Providence, R. I., assignors, by mesne assignments, to Franklin Rayon Corporation. Dyeing and otherwise processing rayon. 1,733,147; Oct. 29.
- Brown-Lipe Gear Company. (See Carhart, George C., assignor.)
- Brown-Lipe Gear Company. (See Fawick, Thomas L., assignor.)
- Brown-Lipe Gear Company. (See Kavle, O. C., and Moulton, assignors.)
- Brown-Lipe Gear Company, The. (See Leighton, Herbert J., assignor.)
- Brown-Lipe Gear Company. (See Reville, Wilfred A., assignor.)
- Brown-Lipe Gear Company. (See Spase, Charles B., assignor.)
- Brown, Lloyd, assignor by mesne assignments, to C. B. Hurtt, W. F. Peterson, G. B. Stephens, C. B. Stephens, Los Angeles, Calif., and G. A. Stephens, Moline, Ill., trustees. Printer and process of printing photographic films. 1,721,202; July 16.
- Brown, Lloyd J. (See Moody, W. O., and Brown.)
- Brown, Lloyd J., Chicago, Ill. Pipe-hanger anchor and the like. 1,730,264; Oct. 1.
- Brown, Lloyd J., Evanston, assignor to E. Payson Smith, Springfield, Ill. Safety device for brake beams and the like. 1,703,611; Feb. 26.
- Brown, Lloyd J., Evanston, assignor to E. P. Smith, Springfield, Ill. Draft-key-locking means. 1,712,490; May 14.
- Brown, Lloyd J., Evanston, assignor to E. Payson Smith, Springfield, Ill. Retaining-valve bracket. 1,726,884; Sept. 3.
- Brown, Lloyd J., Evanston, assignor to E. P. Smith, Springfield, Ill. Brake-hanger support. 1,734,712; Nov. 5.
- Brown, Lowell H., assignor to The Belflex Corporation, New York, N. Y. Flexible body mounting. 1,725,391; Aug. 20.
- Brown, Luther S., Fresno, Calif. Heating device. 1,737,142; Nov. 26.
- Brown Lynch Scott Co. (See Smith, Edward M., assignor.)
- Brown, Matthew M., Erie, Pa. Current motor. 1,707,795; Apr. 2.
- Brown Metal and Cork Company. (See Jenson, Robert H., assignor.)
- Brown, Mortimer J., Niagara Falls, N. Y., assignor, by mesne assignments, to The Pacific R & H Chemical Corporation, Los Angeles, Calif. Producing hydrocyanic acid. 1,702,761; Feb. 19.
- Brown, Nathaniel, Sedan, Kans. Harrow. 1,712,688; May 14.
- Brown, Nathaniel I., Seymour, Ind. Sign. Des. 78,685; June 4.
- Brown, Ned C. L. (See Howe, W. K., and Brown.)
- Brown, Nelson T., Philadelphia, Pa. Direction indicator and signal for motor vehicles. Des. 78,004; Mar. 19.
- Brown, Newton N., assignor to Gold-Medal Camp Furniture Manufacturing Company, Racine, Wis. Chair leg. Des. 77,351; Jan. 1.
- Brown, Newton N., assignor to Gold Medal Camp Furniture Mfg. Company, Racine Wis. Spring-end construction. 1,722,271; July 30.
- Brown, Norman F., Pittsburgh, Pa. Fastener for barrier-post cables. 1,700,877; Feb. 5.
- Brown, Orton B., and H. Parker, assignors to Brown Company, Berlin, N. H. Drier. 1,697,454; Jan. 1.
- Brown, Oscar R., Denver, Ind. Yeast food. 1,712,025; May 7.
- Brown, Ottis K., assignor to Pyramid Beverages, Incorporated, Newport News, Va. Bottle. Des. 79,178; Aug. 13.
- Brown, Paul, assignor to Brown Company, Berlin, N. H. Electric furnace. 1,737,566; Dec. 3.
- Brown, Paul D., New Haven, Conn., assignor to General Railway Signal Company, Rochester, N. Y. Color light signal. 1,730,316; Oct. 1.
- Brown, Paul E., et al. (See Crane, Adam L., assignor.)
- Brown, Perley E. (See Dowers, Lee O., assignor.)
- Brown, Peter, Chicago, Ill., assignor to O-Cedar Corp'n. Mop. 1,715,029; May 28.
- Brown, Phelps, Springfield, Mass. Distributor. 1,740,452; Dec. 24.
- Brown, Porter S. (See Brown, Ernest R. and P. S.)
- Brown, Ralph. (See Randel, Ivar A., assignor.)
- Brown, Ralph L., et al. (See McKee, R. H., and Burke, assignors.)
- Brown, Ralph L., assignor to Brandes Laboratories, Inc., Newark, N. J. Electromagnetic sound reproducer. 1,741,499; Dec. 31.
- Brown, Ray F., Lynn, Mass., assignor to General Electric Company. Fuse puller. 1,741,222; Dec. 31.
- Brown, Ray M., Yonkers, N. Y. Applying locomotive-arch tubes. 1,701,256; Feb. 5.



- Brown, Ray W., Los Angeles, Calif., assignor to The Mechanical Appliances Company. Dental tool. 1,701,172; Feb. 5.
- Brown, Raymond E., assignor to Heyl & Patterson, Incorporated, Pittsburgh, Pa. Hoisting apparatus. 1,704,496; Mar. 5.
- Brown, Raymond F., New York, N. Y. Hose rack. 1,702,071; Feb. 12.
- Brown, Raymond M., Newport News, Va. Bottle opener. 1,702,149; Feb. 12.
- Brown, Reinhardt H., La Porte, Ind. Child's vehicle. 1,716,916; June 11.
- Brown, Reinhardt H., La Porte, Ind., assignor to J. H. McElroy, trustee. Child's collapsible vehicle. 1,718,851; June 25.
- Brown, Reinhardt H., La Porte, Ind., assignor to J. H. McElroy, trustee. Child's collapsible vehicle. 1,726,609; Sept. 3.
- Brown, Richard P., assignor to The Brown Instrument Company, Philadelphia, Pa. Gas-comparison apparatus. 1,707,624; Apr. 2.
- Brown, Richard P., assignor to The Brown Instrument Company, Philadelphia, Pa. Control instrument. 1,707,652; Apr. 2.
- Brown, Richard P., and F. W. Side, assignors to The Brown Instrument Company, Philadelphia, Pa. Control instrument. 1,715,895; June 4.
- Brown, Robert E., Olean, N. Y. Fly-open knife. 1,701,027; Feb. 5.
- Brown, Robert E., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Sawing strand. 1,730,756; Oct. 8.
- Brown, Robert J. (See Shafor, R. W., Nees, and Brown.)
- Brown, Robert L., assignor to Harnischfeger Corporation, Milwaukee, Wis. Trench-digging machine. 1,721,175; July 16.
- Brown, Robert L., assignor to Harnischfeger Corporation, Milwaukee, Wis. Trench-digging machine. 1,739,122; Dec. 10.
- Brown, Robert R., Iowa City, Iowa. Changeable sign. 1,716,760; June 11.
- Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Indexing mechanism for metal-working machines. 1,703,986; Mar. 5.
- Brown, Robert S., New Britain, and J. H. Montstream, Hartford, assignors to New Britain Machine Company, New Britain, Conn. Metal-working machine. 1,704,032; Mar. 5.
- Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Mortiser. 1,706,650; Mar. 26.
- Brown, Roland W., New York, N. Y. Static eliminator for radio equipment. 1,723,464; Aug. 6.
- Brown, Roy W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Time temperature controller. 1,715,987; June 4.
- Brown, Roy W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Absolute-pressure gauge. 1,715,988; June 4.
- Brown, Roy W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Extensometer mounting. 1,723,404; Aug. 6.
- Brown, Roy W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-inflating machine. 1,738,491; Dec. 3.
- Brown, Salena W., Brooklyn, N. Y. Ventilated bedding. 1,727,961; Sept. 10.
- Brown, Samuel B., Los Angeles, Calif. Compensating truck spring. 1,702,809; Feb. 19.
- Brown and Sharpe Manufacturing Company. (See Brown, Arthur, assignor.)
- Brown and Sharpe Manufacturing Company. (See Graves, Benjamin P., assignor.)
- Brown and Sharpe Manufacturing Company. (See Mathewson, Maxwell I., assignor.)
- Brown & Sharpe Mfg. Co. (See Meyer, Arnold W., assignor.)
- Brown & Sharpe Mfg. Co. (See Parkhurst, Malcolm K., assignor.)
- Brown, Sidney G., assignor of one-half to The Telegraph Condenser Company Limited, North Acton, England. Dielectric of condensers and the insulation of cables and other conductors. 1,702,993; Feb. 19.
- Brown, Sidney J., et al. (See Brown, Sidney J., assignor.)
- Brown, Sidney J., London, England, assignor to S. J. Brown and W. Guy-Pell. Percussive hand tool. 1,708,658; Apr. 9.
- Brown, Stanley, Garden City, assignor to The Griscom Russell Company, New York, N. Y. Evaporator and pre-heater system. 1,703,093; Feb. 26.
- Brown, Stephen L., Franklin, Pa. Airline pump. 1,710,402; Apr. 23.
- Brown, Stevens W. (See Grant, Willis C., assignor.)
- Brown, Stewart, Chicago, Ill. Indicator for automobile lubrication. 1,700,712; Jan. 29.
- Brown, Stewart, Chicago, Ill. Pipe fastening. 1,737,214; Nov. 26.
- Brown, Sydney L., Brooklyn, assignor to National Lead Company, New York, N. Y. Window came. 1,739,575; Dec. 17.
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Tractor plow. 1,722,786; July 30.
- Brown, Theophilus, and C. G. Strandlund, assignors to Deere & Company, Moline, Ill. Disk plow. 1,733,181; Oct. 29.
- Brown, Thomas E., jr., Yonkers, N. Y. Indicator for bascules. 1,700,464; Jan. 29.
- Brown, Thomas G., and J. Gardner, St. Laurent, Quebec, assignors to The Gurney Foundry Company Limited, Toronto, Canada. Concealed manifold and valve mechanism for gas ranges. 1,733,937; Oct. 29.
- Brown, Thomas H. (See Larrad, John L., assignor.)
- Brown, Thomas W., Washington, D. C. Reflecting sign. Des. 79,786; Nov. 5.
- Brown, Vernon. (See Pengilly, J. H., and Brown.)
- Brown, Walter J., Eversley, England, assignor, by mesne assignments, to Associated Electrical Industries Limited. Amplifier system. 1,729,983; Oct. 1.
- Brown, Walter J., Stockport, E. J. E. Hubbard, Horsham, E. Y. Robinson, Manchester, and C. R. Burch, Stratford, England, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electric-relay apparatus employing thermionic valves. 1,728,745; Sept. 17.
- Brown, Walter J., Stockport, and E. Y. Robinson, Manchester, England, assignors to Associated Electrical Industries Limited. Production of high-tension electric currents by means of transformers such as induction coils. 1,725,053; Aug. 20.
- Brown, Walter W., Erie, Pa., assignor to General Electric Company. Electric switch. 1,723,915; Aug. 6.
- Brown, Warren S. (See Geiger, P. H., and Brown.)
- Brown, Wilbur F. (See Allen, H. E., and Brown.)
- Brown, William A., Philadelphia, Pa. Oil burner. 1,726,175; Aug. 27.
- Brown, William A., Philadelphia, Pa. Emergency heater. 1,726,337; Aug. 27.
- Brown, William A., Philadelphia, Pa. Emergency heater. 1,726,338; Aug. 27.
- Brown, William C., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,736,063; Nov. 19.
- Brown, William E., Patricia, Tex. Spinning top. 1,712,602; May 14.
- Brown, William H., Cleveland, Ohio. Liquid-level gauge. 1,701,769; Feb. 12.
- Brown, William H., Chicago, Ill. Truck and trailer construction. 1,707,345; Apr. 2.
- Brown, William J., et al. (See Hobson, John H., assignor.)
- Brown, William S., assignor of one-fourth to E. L. Keister and one-fourth to K. W. Dennis, Knoxville, Tenn. Power reverse mechanism for locomotives. 1,735,727; Nov. 12.
- Brown, William S., and C. B. Platt, Carthage, Mo. Lubricating apparatus. 1,697,712; Jan. 1.
- Brown, William W., Oak Lane, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Drive mechanism for dyeing machines. 1,717,494; June 18.
- Browne, Cecil O. (See Whitaker, A., and Browne.)
- Browne, Edith D., assignor to Northwestern Expanded Metal Company, Chicago, Ill. Display folder. 1,719,648; July 2.
- Browne, Frank A., Wayne, assignor to The Barber Asphalt Company, Philadelphia, Pa. Saturating machine. 1,698,253; Jan. 8.
- Browne, Frank A., Wayne, assignor to The Barber Asphalt Company, Philadelphia, Pa. Separator. 1,734,324; Nov. 5.
- Browne, Frederick L. (See Hrubesky, C. E., and Browne.)
- Browne, Freleigh E., Ridgefield Park, N. J. Half-hose garter. 1,700,485; Jan. 29.
- Browne, Le Roy W., and A. W. Schneider, Troy, N. Y. Snow melter. 1,728,525; Sept. 17.
- Browne, Lyle W., assignor to The Fisher Governor Company, Marshalltown, Iowa. Liquid-level-control structure. 1,702,557; Feb. 19.
- Browne, Lyle W., assignor to The Fisher Governor Company, Inc., Marshalltown, Iowa. Pressure-regulator reducing valve. 1,709,388; Apr. 16.
- Browne, Lyle W., assignor to The Fisher Governor Company, Inc., Marshalltown, Iowa. Vapor-collecting valve. 1,716,339; June 4.
- Browne, Lyle W., assignor to The Fisher Governor Company, Inc., Marshalltown, Iowa. Relief valve. 1,719,686; July 2.
- Browne, Lyle W., assignor to The Fisher Governor Company, Marshalltown, Iowa. Snap-acting valve. 1,719,687; July 2.
- Browne, Ralph C., Salem, Mass., assignor to the Government of the United States of America. Ordnance device. 1,707,112; Mar. 26.
- Browne, Vere B., Brackenridge, Pa. Making resistor grids. 1,703,707; Feb. 26.
- Browne, Vere B., Brackenridge, Pa. Preparing low-carbon alloys. 1,710,446; Apr. 23.
- Browne, William G., Yonkers, N. Y. Advertising service vehicle. 1,717,184; June 11.
- Browne, William G., Yonkers, N. Y., and R. W. Olmsted, San Francisco, Calif. Poster panel. 1,712,809; May 14.
- Brownell, Charles O., Eaton Rapids, Mich., assignor, by mesne assignments, to The Wrap-Rite Corporation, Chicago, Ill. Bread-wrapping machine. 1,723,967; Aug. 6.
- Brownell, Charles O., assignor to The Wrap-Rite Corporation, Chicago, Ill. Bread-wrapping machine. 1,734,362; Nov. 5.
- Brownell, Otto E., Des Moines, Iowa. Producing heat-insulating and sound-deadening filler for building structures. 1,737,957; Dec. 3.



- Brownell, Thomas C., New York, N. Y. Recording and indicating the playing of card games. 1,730,640; Oct. 8.
- Browning Crane Company. (See Christie, John W., assignor.)
- Browning, George, Wilmette, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Cutting blade for shears and the like. 1,697,304; Jan. 1.
- Browning, Walter H., London, England. Leaf of loose-leaf books. 1,706,911; Mar. 26.
- Browning, Walter H., London, England. Posting tray for loose-leaf binders. 1,706,912; Mar. 26.
- Brownlee, Dalmar T., Indianapolis, Ind. Making lock nuts. 1,714,072; May 21.
- Brownlee, Dalmar T., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Starter. 1,700,694; Jan. 29.
- Brownlee, Harold J. (See Miner, C. S., and Brownlee.)
- Brownlee, Roy H. (See Kirk, W. J., Brownlee, and Coburn.)
- Brownlee, Roy H., and W. H. Coburn, Pittsburgh, Pa.; said Coburn assignor to said Brownlee. Squirt gun. 1,714,211; May 21.
- Brownlie, James, and G. M. Woodhouse, Glasgow, Scotland; said Woodhouse assignor to said Brownlie. Packing electric and like bulbs. 1,732,575; Oct. 22.
- Brownlow, Edward G. (See Parsons, C. A., and Brownlow.)
- Brownridge, Thomas R., Glenavon, Saskatchewan, Canada. Primer gasifier. 1,724,789; Aug. 13.
- Brownrigg, Abel L., deceased, East Orange, N. J.; A. P. Brownrigg, executrix. Utilizing centrifugal force. 1,730,117; Oct. 1.
- Brownrigg, Alice P., executrix. (See Brownrigg, Abel L.)
- Brownson, Ralph, Hastings, Minn. Depot truck brake. 1,726,141; Aug. 27.
- Broxon, James E., Akron, Ohio. Truck wheel. 1,698,534; Jan. 8.
- Broyles, John E., Entiat, Wash. Landing mechanism for aeroplanes. 1,710,290; Apr. 23.
- Bruckack, Theodore M. (See Linaker, F. W., and Bruckack.)
- Brubaker, Jacob E., assignor to The Hubley Manufacturing Company, Lancaster, Pa. Toy grasshopper. 1,717,141; June 11.
- Brubaker, John A. (See Turner, F. F., and Brubaker.)
- Brubaker, John A., assignor to The Houghton Elevator and Machine Company, Toledo, Ohio. Elevator interlock. 1,709,970; Apr. 23.
- Brubaker, John A., assignor to The Houghton Elevator & Machine Company, Toledo, Ohio. Swing-door-operating mechanism. 1,736,390; Nov. 19.
- Brubaker, Ora H., Richmond, assignor to McCormick Brothers Company, Albany, Ind. Furniture-leg attaching piece. 1,733,859; Oct. 29.
- Brubaker, Walter S., Oakland, Calif. Joint for fluid meters and the like. 1,702,762; Feb. 19.
- Brubaker, Walter S., Oakland, assignor, by mesne assignments, to Granberg Meter Corporation, San Francisco, Calif. Resettable register. 1,730,914; Oct. 8.
- Brubaker, Wesley, Savannah, Ohio. Mechanical ice-cream dispenser and the like. 1,704,784; Mar. 12.
- Bruce, Albert W. (See Barker, S. S., and Bruce.)
- Bruce, Alexander D. (See Bruce, James D. and A. D.)
- Bruce, Alfred W., New York, N. Y. Articulated locomotive. 1,704,722; Mar. 12.
- Bruce, Alfred W., New York, N. Y. Locomotive boiler. 1,708,255; Apr. 9.
- Bruce, Alfred W., New York, N. Y. Locomotive frame. 1,710,690; Apr. 30.
- Bruce, Alfred W., New York, N. Y. Locomotive-truck equalizer. 1,718,329; June 25.
- Bruce, Alfred W., New York, N. Y. Truck for railroad vehicles. 1,739,123; Dec. 10.
- Bruce, Clem C., Memphis, assignor of one-third to L. D. Bruce and one-third to C. R. Spicer, Memphis, Tenn. Display easel. 1,718,406; June 25.
- Bruce, Edmond, Red Bank, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric wave translation system. 1,710,254; Apr. 23.
- Bruce, George R., San Benito, Tex. Windmill. 1,718,682; June 25.
- Bruce, George W., Osseo, assignor to The Bruce Manufacturing Company, Minneapolis, Minn. Potato digger. 1,735,993; Nov. 19.
- Bruce, Harold E. W., Camberwell, London, England. Window. 1,708,008; Apr. 9.
- Bruce, Hugh D., assignor of fifty per cent to F. S. Ullom, Renton, Wash. Bunk for logging cars. 1,703,569; Feb. 26.
- Bruce, James D. and A. D., Framingham, Mass. Blade stopper. 1,705,325; Mar. 12.
- Bruce, Lee D., et al. (See Bruce, Clem C., assignor.)
- Bruce Manufacturing Company, The. (See Bruce, George W., assignor.)
- Bruce, Nigel G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Packing ring. 1,700,091; Jan. 22.
- Bruce, William M., jr., Springfield, Ohio. Electric translating device. 1,706,480; Mar. 26.
- Bruce, William M., jr., Springfield, Ohio. Method of and apparatus for radioreception. 1,737,407; Nov. 26.
- Brückel, Waldemar, Berlin, and F. Lauster, Baumschulweg, Germany, assignors to General Electric Company. Electrical discharge device. 1,701,356; Feb. 5.
- Brucker, Henry, Newark, N. J., assignor to American Aluminum Ware Co. Combined closure and pouring spout. 1,741,972; Dec. 31.
- Bruckmann, Ludwig, Pforzheim, Germany. Pocket lighter. 1,700,021; Jan. 22.
- Bruckmann, Peter C., St. Louis, Mo., assignor, by mesne assignments, to Vorlone Company. Centrifugal drier. 1,715,351; June 4.
- Bruckshaw, Herbert S., Bolton, England. Reenforced concrete for safes, strong rooms, and the like. 1,714,073; May 21.
- Bruckshaw, Herbert S., Bolton, England. Reenforcement for strong rooms, safes, and the like. 1,741,611; Dec. 31.
- Brüderlin, Emil, Wabern-Bern, Switzerland. Device for the air-tight soldering in vacuo of sheet-metal boxes. 1,708,868; Apr. 9.
- Bruehl, Laurence. (See Otto, S., and Bruehl.)
- Bruer, Henry. (See Williams, A. J., Bruer, and Spence.)
- Bruer, Wilhelm. (See Kleinow, W., Morgenroth, Reinhardt, and Bruer.)
- Brueshaber, Martin W., Chicago, Ill., assignor to Goss Printing Press Company. Printing press. 1,716,108; June 4.
- Brueshaber, Martin W., Chicago, Ill., assignor to Goss Printing Press Company. Printing press. 1,727,426; Sept. 10.
- Brueske, Friedrich W. A., Madison, Wis. Safety lock for gasoline dispensers. 1,728,923; Sept. 24.
- Bruggmann, Gustav A., Zurich, Switzerland. Apparatus for bathing purposes. 1,716,109; June 4.
- Bruggmann, Johann, Neuenhof, near Baden, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrode seal for electric furnaces. 1,732,431; Oct. 22.
- Brühl, Paul, Dusseldorf, Germany. Grinding machine. 1,719,964; July 9.
- Brühl, Paul, Dusseldorf, Germany. Grinding machine. 1,719,965; July 9.
- Brühlmann, Gottfried, Collingswood, N. J., assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electric switch. 1,727,631; Sept. 10.
- Bruhn, Bruno, Bethlehem, Pa., assignor to G. Polysius, Dessau, Germany. Making fused cement. 1,741,973; Dec. 31.
- Bruhn, Friedrich W. G., Berlin-Wilmersdorf, Germany. Recording apparatus. 1,700,399; Jan. 29.
- Bruhn, Max C., Ferrysburg, and M. G. Piepenburg, Muskegon, Mich. Bottle cap. 1,716,163; June 4.
- Bruhn, Walter, St. Louis, Mo., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Accounting method and apparatus. 1,736,339; Nov. 19.
- Bruhl, Eugene C., Oak Park, Ill. Whipping device. 1,726,977; Sept. 3.
- Brumbaugh, Denford A., Evanston, assignor to North American Service Company, Chicago, Ill. Sign. Des. 77,527; Jan. 22.
- Brumbaugh, Denford A., Evanston, assignor to North American Service Company, Chicago, Ill. Sign. Des. 77,528; Jan. 22.
- Brumbaugh, Isaac V. (See Stockstrom, A., and Brumbaugh.)
- Brumbaugh, Jacob O., assignor to Gold Car Heating & Lighting Company, New York, N. Y. End train-pipe valve. 1,738,690; Dec. 10.
- Brumbaugh, John H., Wilmette, Ill., assignor to A. Fritzsche, Cleveland, Ohio. Automatically controlling the flow of liquid in pipes. 1,697,223; Jan. 1.
- Brumder, William C., Milwaukee, Wis. Typewriter-operating means. 1,711,137; Apr. 30.
- Brumfield, Thomas R., assignor to P. L. Hines, Danville, Va. Vehicle jack. 1,716,949; June 11.
- Brumfield, Thomas R., and P. L. Hines, Danville, Va., said Brumfield assignor to said Hines. Automobile jack. 1,713,465; May 14.
- Brumm, Emile, Lyon, France. Machine of the semi-automatic type for casting under pressure. 1,729,536; Sept. 24.
- Brummer, Fred, assignor of one-half to P. V. Wycoff, Batesville, Ind. Latch mechanism for doors. 1,725,846; Aug. 27.
- Brummett, Ralph S., Des Moines, Iowa, assignor, by mesne assignments, to The J. C. McAdams Company, Long Island, N. Y. Variable impedance coil. 1,700,092; Jan. 22.
- Brump, Herbert L., assignor to Day-Fan Electric Company, Dayton, Ohio. Commutator motor. 1,723,010; Aug. 6.
- Brump, Herbert L., and F. Bauch, assignors to The Day-Fan Electric Company, Dayton, Ohio. Clutch for refrigerators. 1,737,825; Dec. 3.
- Brun, August, Chicago, Ill. Propelling device for boats. 1,697,043; Jan. 1.
- Brundage, James W., assignor to Lambert Tire & Rubber Co., Akron, Ohio. Tire-vulcanizing mold. 1,718,631; June 25.
- Brundige, Samuel H., Santa Rosa, Calif. Method of cultivating soil and cultivator. 1,732,496; Oct. 22.
- Brune, Edward H., St. Louis, Mo. Treating garbage. 1,700,608; Jan. 29.
- Brune, Rudolf. (See Hoffa, E. Brune, and Müller.)
- Brune, Rudolf. (See Wagner, H., Brune, Hessenland, Hoffa, Müller, and Heyna.)
- Brune, Rudolf, Dortmund, Germany. Core-peeling device for foundries. 1,735,890; Nov. 19.



- Brune, Sven J., Pittsfield, Mass., assignor to General Electric Company. Incased electrical apparatus. 1,723,916; Aug. 6.
- Brunell, H. A. (See Roche, Clifton R., assignor.)
- Bruner, Francis A., Inc. (See MacCaffrey, Paul J., assignor.)
- Brungardt, Alphonse O., Scituate, Mass. Making wrenches. 1,711,083; Apr. 30.
- Brunhoff, Edward, Wyoming, Ohio. Dispensing apparatus. 1,728,526; Sept. 17.
- Brunhoff, Edward, Wyoming, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Rotatable display stand. 1,711,587; May 7.
- Brunhoff, Edward, Wyoming, Ohio, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Display lid. 1,712,647; May 14.
- Brunhoff, Edward, Wyoming, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Display and vending apparatus. 1,719,551; July 2.
- Brunhoff, Edward, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Display stand. 1,711,585; May 7.
- Brunhoff, Edward, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Advertising and display apparatus. 1,711,586; May 7.
- Brunhoff, Edward, assignor to The Brunhoff Manufacturing Company, Cincinnati, Ohio. Display lid. 1,712,742; May 14.
- Brunhoff Manufacturing Company, The. (See Brunhoff, Edward, assignor.)
- Bruning, Clarence A., Colfax, Wash. Display rack. 1,731,610; Oct. 15.
- Bruning, Hermann, assignor to American Hoist & Derrick Company, St. Paul, Minn. Ejector for excavator dipers. 1,704,425; Mar. 5.
- Bruning, J. & Sohn Aktien-Gesellschaft. (See Sziborr, August, assignor.)
- Brüning, J., & Sohn Aktien-Gesellschaft. (See von Maltitz, Eugen, assignor.)
- Bruning, William F., New York, N. Y. Cocktail-shaker top. 1,719,688; July 2.
- Bruninga, John H. (See Reller, E. L., and Bruninga.)
- Bruninga, John H., St. Louis, Mo. Rectifier for alternating currents. 1,730,447; Oct. 8.
- Brüninghaus, Alfred, Dortmund, Germany. Bearing adjusting means for roller mills. 1,734,793; Nov. 5.
- Bruninghaus, Hugo, assignor to The Henkel-Clauss Company, Fremont, Ohio. Composite article and making same. 1,702,226; Feb. 12.
- Brunn and Company. (See Lang, Victor A., assignor.)
- Bruun, George T., Pittsburgh, Pa., assignor to The Koppers Company. Coke-oven apparatus. 1,730,602; Oct. 8.
- Brunn, John H., Jersey City, N. J. Portable ash tray. 1,699,278; Jan. 15.
- Brunner, Eugen, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. Friedrichshafen, Bodensee, Germany. Airship. 1,706,397; Mar. 26.
- Brunner, Franz, Erzgebirge, Germany. Napping machine. 1,721,985; July 23.
- Brunner, Frederick, Camden, N. J. Landing method for aircraft. 1,709,058; Apr. 16.
- Brunner, Harold E., Mamaroneck, N. Y., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Matchable bearing. 1,722,492; July 30.
- Brunner, Harold E., Mamaroneck, N. Y., assignor to The Skayef Ball Bearing Company, Hartford, Conn. Double-row taper roller bearing. 1,722,493; July 30.
- Brunner, Harold E., Larchmont, N. Y., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Forming matchable bearings. 1,722,494; July 30.
- Brunner, Herbert R., New York, N. Y. Fuel combustion. 1,729,151; Sept. 24.
- Brunner, John F., Seattle, Wash. Multiflour sifter. 1,716,761; June 11.
- Brunner Manufacturing Company. (See Bryant, George W., assignor.)
- Brunnträger, Franz. (See Kränzlein, G., Voss, and Brunnträger.)
- Bruns, William, assignor to Otis Elevator Company, New York, N. Y. Retiring cam. 1,715,159; May 28.
- Brunst, William M., and R. H. Greeger, assignors to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting curtain. 1,709,305; Apr. 16.
- Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
- Brunswick-Balke-Collender Company, The. (See Bluhm, Harold J., assignor.)
- Brunswick-Balke-Collender Company, The. (See Booth, Byron C., assignor.)
- Brunswick-Balke-Collender Company, The. (See de Correvont, Howard P., assignor.)
- Brunswick-Balke-Collender Co., The. (See Hedenskoog, Ernest, assignor.)
- Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)
- Brunswick-Balke-Collender Company, The. (See Spring, Joseph, assignor.)
- Brunswick-Balke-Collender Company, The. (See Weicker, Carl H., assignor.)
- Brunt, L. F., et al. (See Tucker, Pinkney R., assignor.)
- Brunzell, Bror J., Arbra, Sweden. Device for holding parcels or other objects. 1,719,753; July 2.
- Brush, Alanson P., Detroit, Mich. Valve mechanism for internal-combustion engines. 1,710,291; Apr. 23.
- Brush, Alanson P., Detroit, Mich. Internal-combustion engine. 1,710,292; Apr. 23.
- Brush, Alanson P., Detroit, Mich. Journal bearing. 1,717,873; June 18.
- Brush, Alanson P., Detroit, Mich. Method and apparatus for introducing explosive mixtures into internal-combustion engines. 1,730,641; Oct. 8.
- Brush, Alanson P., Detroit, Mich. Mixture-commingling means for internal-combustion engines. 1,731,042; Oct. 8.
- Brush, Alanson P., and Owen M. Nacker, Detroit, Mich. Valve-operating mechanism. 1,705,803; Mar. 19.
- Brush, Alanson P., and O. M. Nacker, Detroit, Mich. Internal-combustion engine. 1,717,872; June 18.
- Brush, Charles F., jr., deceased, Cleveland Heights; The Cleveland Trust Company, executor, assignor, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio. Piezo-electric crystals. 1,698,669; Jan. 8.
- Brush, George S., Zanesville, Ohio. Fountain or similar article. Des. 78,265; Apr. 16.
- Bru-Shoe-Matic Company. (See Lewis, James M., assignor.)
- Bruson, Herman A. (See Staudinger, H., and Bruson.)
- Brussel, John W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Hob. 1,728,198; Sept. 17.
- Brussel, John W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Making hobs. 1,734,558; Nov. 5.
- Brüsselbach, Conrad, Cologne-Sulz, Germany. Steering-post control. 1,729,926; Oct. 1.
- Brust, Charles A., jr., El Dorado, Ark. Fishing tool. 1,732,962; Oct. 22.
- Brut, George F., Lyon, France. Carburetor for explosion engines. 1,731,123; Oct. 8.
- Bryan, Bert, Lafayette, Ind. Ironing and sleeve board. 1,725,614; Aug. 20.
- Bryan, Harry F., Chicago, Ill., assignor to Ensign Carburetor Company, Los Angeles, Calif. Carburetor. 1,741,401; Dec. 31.
- Bryan, Harry F., Chicago, Ill., and R. F. Ensign, Pasadena, assignors to Ensign Carburetor Company, Los Angeles, Calif. Internal-combustion engine. 1,727,197; Sept. 3.
- Bryan, James T. (See Marston, Richard E., assignor.)
- Bryan, M. E., et al. (See Faris, Edwin E., assignor.)
- Bryan, Sally, Denver, Colo. Container for imparting radium emanations to fluids. Des. 80,216; Dec. 31.
- Bryant, Alvah W., Detroit, Mich. Compressor. 1,711,013; Apr. 30.
- Bryant, Carrel C., Landing, N. J. Cake compressor. 1,711,039; Apr. 30.
- Bryant, Charles L., Cleveland, Ohio. Heating apparatus. 1,712,810; May 14.
- Bryant, Charles L., Cleveland, Ohio. Heating apparatus. 1,717,658; June 18.
- Bryant Electric Company, The. (See Anderson, Carl E., assignor.)
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Bryant Electric Company. (See Goodridge, G. W., and Thomas, assignors.)
- Bryant Electric Company. (See Hogan, Jay J., assignor.)
- Bryant Electric Company. (See Rippe, Charles, assignor.)
- Bryant Electric Company, The. (See Stacey, William A., assignor.)
- Bryant, Frank H., Mill Valley, Calif. Damper control. 1,735,034; Nov. 12.
- Bryant, Frank L., assignor to S. L. Schwarz, Chicago, Ill. Distended fibrous material and producing the same. 1,740,280; Dec. 17.
- Bryant, George W., Clinton, assignor to Brunner Manufacturing Company, Utica, N. Y. Spray gun and spray head therefor. 1,722,892; July 30.
- Bryant, Harvey L., Newark, N. J., assignor to American Can Company, New York, N. Y. Can-closing machine. 1,716,618; June 11.
- Bryant, Henry E., Providence, assignor to Tubular Woven Fabric Company, Pawtucket, R. I. Circular loom. 1,701,527; Feb. 12.
- Bryant, Henry E., Providence, assignor to Tubular Woven Fabric Company, Pawtucket, R. I. Machine for making cable armor and flexible metallic conduit. 1,708,049; Apr. 9.
- Bryant, Henry E., Providence, R. I., assignor, by mesne assignments, to Anaconda Wire and Cable Company. Portable welding apparatus. 1,736,428; Nov. 19.
- Bryant, James G., Port Huron, Mich. Attrition mill. 1,698,838; Jan. 15.
- Bryant, John, Cardiff, Wales. Power-transmission mechanism. 1,718,894; June 25.
- Bryant, Ozro N., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Indicator. 1,740,153; Dec. 17.
- Bryant, Roy B., Dallas, Tex. Radio communication system. 1,703,719; Feb. 26.
- Bryant, Ryland P., Marion, S. C. Flexible collar. 1,735,636; Nov. 12.
- Bryant, Thomas W., Zanesville, Ohio, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Automatic accepting and rejecting machine. 1,738,634; Dec. 10.
- Bryant, Walter B., Birmingham, Mich. Furnace casing. Des. 77,809; Feb. 26.
- Bryant, William G., Marion, N. C. Holder. 1,712,689; May 14.



- Bryant, William L., Springfield, Vt. Internal grinder. 1,705,749; Mar. 19.
- Bryant, William L., Springfield, Vt. Grinding wheel. 1,735,891; Nov. 19.
- Bryce Brothers Company. (See Dithridge, James D., assignor.)
- Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Zero-printing-suppression device for accounting machines. 1,702,628; Feb. 19.
- Bryce, James W., Bloomfield, N. J., assignor to Dayton Scale Company, Dayton, Ohio. Price scale. 1,706,870; Mar. 26.
- Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Record-card-controlled machine for sorting and the like. 1,707,755; Apr. 2.
- Bryce, James W., Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y. Signal apparatus. 1,713,021; May 14.
- Bryce, James W., Bloomfield, N. J., assignor to The Tabulating Machine Company, Endicott, N. Y. Transfer device for accounting machines. 1,723,499; Aug. 6.
- Bryce, James W., Bloomfield, and A. W. Mills, East Orange, N. J., assignors to The Tabulating Machine Company, Endicott, N. Y. Transposing device for tabulating machines. 1,729,028; Sept. 24.
- Bryce, James W., Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y. Pneumatic clock system. 1,730,448; Oct. 8.
- Bryce, James W., Bloomfield, N. J., and C. H. Getz, Cleveland, Ohio, assignors to International Time Recording Company of New York, Endicott, N. Y. Synchronizing clock system. 1,740,330; Dec. 17.
- Brydges, William, and S. C. Foster, assignors to Bedford Pulp & Paper Company, Inc., Big Island, Va. Making wood pulp. 1,737,542; Nov. 26.
- Brydon, Doc. (See Popay, George L., assignor.)
- Brye, Edwin, Northfield, Minn. Snow runner for vehicles. 1,733,774; Oct. 29.
- Brydger, Simon, New York, N. Y. Swimming device. 1,704,550; Mar. 5.
- Brysilka, Limited. (See Schubert, Friedrich W., assignor.)
- Bryson, George C., Montreal, Quebec, Canada. Detergent composition and making same. 1,728,721; Sept. 17.
- Bryson, Tandy A., assignor, by mesne assignments, to Tolhurst Machine Works, Inc., Troy, N. Y. Centrifugal separator. 1,703,094; Feb. 26.
- Bryson, Tandy A., assignor, by mesne assignments, to Tolhurst Machine Works, Inc., Troy, N. Y. Centrifugal extractor and method of centrifugal extraction. 1,710,447; Apr. 23.
- Bryte-Nelson Refining Company. (See Nelson, Oliver J., assignor.)
- Brzezinski, John. (See Forney, F. S., and Brzezinski.)
- Brzykey, Antoni, Minneapolis, Minn. Animal trap. 1,708,659; Apr. 9.
- Bubb, Lewis P., and J. W. Mundy, Baltimore, Md. Electric fishing float. 1,707,901; Apr. 2.
- Bubblestone Company, The. (See Rice, John A., assignor.)
- Bubblestone Company, The. (See Rickard, E. M., and Rice, assignors.)
- Buc, Hyym E. (See Moore, W., and Buc.)
- Buc, Hyym E., Roselle, N. J., assignor to Standard Oil Development Company. Manufacture of oil-soluble sulphonates. 1,707,506; Apr. 2.
- Buc, Hyym E., Roselle, N. J., assignor to Standard Oil Development Company. Purifying alcohols. 1,712,475; May 7.
- Buc, Hyym E., Roselle, N. J., assignor to Standard Oil Development Company. Varnish. 1,735,493; Nov. 12.
- Buc, Hyym E., Roselle, and W. W. Clough, Elizabeth, N. J., assignors to Standard Oil Development Company. Making esters. 1,726,945; Sept. 3.
- Bucaria, Bartholomew. (See Phair, R. A., and Bucaria, assignor.)
- Bucciari, Benedetto, Millville, N. J. Safety device for oil cans. 1,729,501; Sept. 24.
- Buch, Frederick L. (See Olson, C. A., Buch, and Brooks.)
- Buch, Paul H., New York, N. Y., assignor of one-half to H. M. Groff, Plainfield, N. J. Worm gear. 1,727,046; Sept. 3.
- Buchan Telephone Records Company. (See Buchan, Hugh G., assignor.)
- Buchan Telephone Records Company. (See Koelling, Edward A., assignor.)
- Buchan, Hugh G., assignor to Buchan Telephone Records Company, St. Louis, Mo. Clamping member for loose-leaf binders. 1,716,515; June 11.
- Buchanan, Donald L., New York, N. Y. Movie game. 1,699,132; Jan. 15.
- Buchanan, Edwin C., Nashville, Tenn. Dial-light for telephones. 1,728,852; Sept. 17.
- Buchanan, Emmor A., Cherryvale, Kans. Underreamer. 1,739,206; Dec. 10.
- Buchanan, Frank, assignor to Crouse-Hinds Company, Syracuse, N. Y. Headlight construction. 1,701,908; Feb. 12.
- Buchanan, Guy H., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Making diammonium phosphate. 1,716,415; June 11.
- Buchanan, Guy H., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Cyanogen-chloride hydrocyanic-acid mixture. 1,738,280; Dec. 3.
- Buchanan, Guy H., Westfield, N. J., G. Barsky, New York, N. Y., and K. D. Ashley, Elizabeth, N. J., assignors to American Cyanamid Company, New York, N. Y. Producing salts of carboxylic acids. 1,717,353; June 18.
- Buchanan, Isaac W. P., Lebanon, Tenn. Intermittent spray device. 1,735,728; Nov. 12.
- Buchanan, John H., Ames, Iowa, assignor to American Bottlers of Carbonated Beverages, Washington, D. C. Composition to be used as a sterilizing and germicidal agent. 1,702,629; Feb. 19.
- Buchanan, John H., Ames, Iowa, assignor to American Bottlers of Carbonated Beverages, Washington, D. C. Composition in tablet form for determining alkaline content by titration. 1,721,809; July 23.
- Buchanan, Stephen N., New York, N. Y., assignor to Thomas & Betts Co., Elizabeth, N. J. Electric-fixture hanger. 1,702,493; Feb. 19.
- Buchanan, Stephen N., New York, N. Y., assignor to The Thomas & Betts Co., Elizabeth, N. J. Box support. 1,719,318; July 2.
- Buchanan, Stephen N., and A. P. Davis, Baltimore, Md., assignors, by mesne assignments, to The Thomas & Betts Co., Elizabeth, N. J. Electrical-fixture hanger or mounting. 1,699,950; Jan. 22.
- Buchanan, Stephen N., New York, N. Y., and L. H. Church, Westfield, assignors to Thomas & Betts Co., Elizabeth, N. J. Electrical wire fishline. 1,730,993; Oct. 8.
- Buchanan-Wollaston, Hugo J., Lowestoft, England. Fluid meter. 1,730,404; Oct. 8.
- Buchenberg, Alvin E., assignor, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio. Brush holder. 1,736,844; Nov. 26.
- Bücher, Christian, Wiesbaden, Germany. Rendering iron pipes immune from attack by water and apparatus for performance of this method. 1,716,205; June 4.
- Bucher, Victor L., and J. R. Hammel, Dayton, Ohio. Advertising display counter. Des. 79,064; July 30.
- Bucherer, Hans, Charlottenburg, near Berlin, Prussia, Germany. Production of new derivatives of the condensation products of aldehydes and phenols. 1,697,713; Jan. 1.
- Buchert, Gottfried, Liegnitz, Germany. Machine for automatically coating tubes, pipes, etc. 1,706,348; Mar. 19.
- Buchet, Conrad R., assignor to National Air-Lub Products Incorporated, Los Angeles, Calif. Combination spring oiler and motor cleaner. 1,702,534; Feb. 19.
- Buchholz, Henry G., et al. (See Zisterer, Emil C., assignor.)
- Buchholz, Max, Cassel, Germany. Protection of electric apparatus. 1,717,366; June 18.
- Buchholz, Max E., assignor to Bright Star Battery Company, Inc., Hoboken, N. J. Portable flash light. 1,699,344; Jan. 15.
- Buchli, Jacob, Winterthur, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Driving coupling. 1,738,635; Dec. 10.
- Buchli, Jacob, Winterthur, Switzerland. Vehicle running on rails. 1,723,720; Aug. 6.
- Buchli, Jacob, Winterthur, Switzerland. Locomotive. 1,729,537; Sept. 24.
- Buchman, Samuel, Carnegie, Pa. Pillow. 1,705,326; Mar. 12.
- Buchner, Max, Hanover-Kleefteld, Germany, assignor to A. F. Meyerhofer, Zurich, Switzerland. Production of pure hydrofluoric acid from polluted fluorspars. 1,701,225; Feb. 5.
- Buchner, Max, Hanover-Kleefteld, Germany, assignor to A. F. Meyerhofer, Zurich, Switzerland. The decomposition of complex hydrofluoric salts. 1,730,915; Oct. 8.
- Buchner, Max, Hanover-Kleefteld, Germany. Production of alkali carbonates and ammonia by saponification of calcium cyanamide. 1,737,297; Nov. 26.
- Bucholtz, William, Otterville, Ontario, Canada. Bottle-cap remover. 1,736,519; Nov. 19.
- Buchsbaum, Herbert, Chicago, Ill. Fastening initials to name plates. 1,738,865; Dec. 10.
- Buchsbaum, Morris, Brooklyn, N. Y. Hosiery. 1,728,924; Sept. 24.
- Buchwald, Emilio, Buenos Aires, Argentina. Appliance for cutting or sawing carcasses of dead animals. 1,741,554; Dec. 31.
- Buchwald, William G., Lawton, Okla. Cotton-chopper attachment for cultivators. 1,701,137; Feb. 5.
- Buchwalter, Marguerite A., New York, N. Y. Muffin stand or similar article. Des. 79,497; Oct. 1.
- Buck, Ainsworth, Incorporated. (See Bardello, Antonio, assignor.)
- Buck, Arthur W., St. Louis, Mo. X-ray cassette. 1,697,381; Jan. 1.
- Buck, Edward L., and E. G. Nadeau, Howland, Me. Feed attachment for conveyers. 1,712,329; May 7.
- Buck, Frank H., and F. McKee, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Electrolytic cell. 1,720,995; July 16.
- Buck, Frank H., and F. McKee, Wilmington, Del., assignor to The Jessup & Moore Paper Co., Philadelphia, Pa. Electrolytic cell. 1,720,996; July 16.
- Buck, Herman J., Minneapolis, Minn. Combination table and ironing board. 1,703,187; Feb. 26.
- Buck, Lucien, Jamaica Plain, Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Method and apparatus for drying barrels. 1,700,994; Feb. 5.
- Buck, Lucien, Jamaica Plain, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Apron drier. 1,723,917; Aug. 6.



- Buck, Lucien, assignor to James Hunter Machine Company, North Adams, Mass. Drying apparatus. 1,703,290; Feb. 26.
- Buck, Lucien, assignor of one-half to James Hunter Machine Company, North Adams, Mass. Drying apparatus and method. 1,703,291; Feb. 26.
- Buck, Lucien, assignor to James Hunter Machine Company, North Adams, Mass. Heat-insulating wall. 1,706,769; Mar. 26.
- Buck, Lucien, assignor to James Hunter Machine Company, North Adams, Mass. Apparatus for stretching and drying weblike materials. 1,717,004; June 11.
- Buck, Porter A., Berrien Springs, and K. W. Hooth, Kalamazoo, Mich. Dishwashing machine. 1,722,272; July 30.
- Buck, Robert H., Alameda, Calif. Nail. 1,737,185; Nov. 26.
- Buck, Sterling P., Baltimore, Md., assignor of one-third to L. B. Barrett, Washington, D. C. Postal scale. 1,732,300; Oct. 22.
- Buckbee, John C., Chicago, Ill. Material-bunker plant. 1,724,253; Aug. 13.
- Buckbee, John C., Chicago, Ill. Centrifugal separator. 1,724,254; Aug. 13.
- Buckeridge, Walter, Perth, Australia. Selective-card cabinet. 1,702,994; Feb. 19.
- Buckeye Aluminum Company, The. (See Blake, R. S., and Fabens, assignors.)
- Buckeye Aluminum Company, The. (See Fabens, Andrew L., assignor.)
- Buckeye Aluminum Company, The. (See McGarvey, William J., assignor.)
- Buckeye Aluminum Company, The. (See Porter, Kirk E., assignor.)
- Buckeye Incubator Company, The. (See Cugley, George, assignor.)
- Buckeye Iron & Brass Works. (See Rumsey, Edward C., assignor.)
- Buckeye Iron & Brass Works. (See Trace, Russell A., assignor.)
- Buckeye Jack Company, The. (See Clark, Harold W., assignor.)
- Buckeye Jack Manufacturing Company, The. (See Clark, Harold W., assignor.)
- Buckeye Steel Casting Company, The. (See Bush, Samuel P., assignor.)
- Buckeye Steel Castings Company, The. (See Campion, E. W., and Dierker, assignors.)
- Buckeye Steel Castings Company, The. (See Johnson, George T., assignor.)
- Buckeye Steel Castings Company, The. (See Johnson, G. T., and Stertzbach, assignors.)
- Buckeye Steel Castings Company, The. (See Larsen, Jacob C., assignor.)
- Buckeye Steel Castings Company, The. (See Speck, W. C., and Barker, assignors.)
- Buckeye Steel Castings Company, The. (See Speck, W. C., Barker, Whipple, and Dierker, assignors.)
- Buckeye Steel Castings Company, The. (See Stertzbach, Harry W., assignor.)
- Buckeye Steel Casting Company, The. (See Whitridge, John C., assignor.)
- Buckeye Traction Ditcher Co., The. (See George, Charles L., assignor.)
- Buckeye Traction Ditcher Company. (See George, Charles L., assignor.)
- Buckham, George T. (See Dawson, A. T., White, and Buckham.)
- Buckhout, Frank B., Yonkers, N. Y. Weather strip. 1,738,350; Dec. 3.
- Buckingham, Fremont H., Detroit, Mich., assignor to Toledo Scale Company, Toledo, Ohio. Indicating device. 1,701,028; Feb. 5.
- Buckius, Albert O., Jr., assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Journal-box mechanism. 1,711,040; Apr. 30.
- Buckle, Carl H., Crockett, assignor of one-half to G. R. McPhail, Magnolia, Tex. Cotter-key puller. 1,707,842; Apr. 2.
- Buckle, Horace L. T., Iver Heath, England, assignor to Victor Talking Machine Company. Winding device for talking machines. 1,713,022; May 14.
- Bucklen, Herbert E. (See Bucklen, H. E., and Putt, assignors.)
- Bucklen, Herbert E., Elkhart, Ind. Wind-driven generator. 1,699,949; Jan. 22.
- Bucklen, Herbert E., and H. O. Putt, assignors to H. E. Bucklen, Elkhart, Ind. Governing device for wind-power plants. 1,698,709; Jan. 15.
- Bucklen, Herbert E., and H. O. Putt, assignors to H. E. Bucklen, Elkhart, Ind. Electric relay. 1,728,037; Sept. 10.
- Bucklen, Herbert E., and H. O. Putt, assignors to said Herbert E. Bucklen, Elkhart, Ind. Unloader for pump drives. 1,738,281; Dec. 3.
- Bucklen, Herbert E., Corporation. (See Putt, Harlie O., assignor.)
- Buckley, Arthur H., Mission Township, Johnson County, Kans. Cabinet fan. 1,713,946; May 21.
- Buckley, James J., Jamaica, assignor to S. W. Farber, Inc., Brooklyn, N. Y. Combination bridge set. 1,705,236; Mar. 12.
- Buckley, John B., Los Angeles, Calif. Boiler. 1,702,241; Feb. 19.
- Buckley, John J., Boston, Mass., assignor by mesne assignments to Firebar Corporation, Cleveland, Ohio. Fuel grate. 1,732,497; Oct. 22.
- Buckley, John P., et al. (See Zim, Jesse G., assignor.)
- Buckley, John P., and A. E. Nesbitt, Washington, D. C. Signal for airships. 1,725,563; Aug. 20.
- Buckley, Shem, Jr. (See Wallin, G. A., and Buckley.)
- Buckman, John S., Flushing, N. Y. Adjustable hat. 1,712,290; May 7.
- Bucknam, Frederick A., Auburn, N. Y., assignor to International Harvester Company, Chicago, Ill. Depth regulator and transport for disk harrows. 1,729,061; Sept. 24.
- Bucknam, Worthly C., Jersey City, N. J., assignor to The Linde Air Products Company. Metal-cutting machine. 1,701,661; Feb. 12.
- Bucknam, Worthly C., Jersey City, N. J., assignor to The Linde Air Products Company. Tube-welding machine. 1,703,057; Feb. 19.
- Bucknell, Howard, Jr., S. Chapin, and C. A. McKelvey, Peking, China. Pocket electric cigarette and cigar lighting machine. 1,721,203; July 16.
- Bucknell Supply Company. (See Glauber, Myron J., assignor.)
- Buckney, Edward J. D., assignor to Guy Motors Limited and S. S. Guy, Wolverhampton, England. Fastening of emergency exit doors of vehicles. 1,704,164; Mar. 5.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller-bearing-axle construction. 1,700,307; Jan. 29.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car journal-box construction. 1,705,555; Mar. 19.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car truck. 1,709,836; Apr. 23.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Truck. 1,722,035; July 23.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car truck. 1,731,291; Oct. 15.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Axle-bearing-securing means. 1,732,256; Oct. 22.
- Bucky, Gustav, New York, N. Y. X-ray tube. 1,708,494; Apr. 9.
- Bucky, Gustav, New York, N. Y. Irrigator for the intestines, bladder, pelvis, and the like. 1,726,212; Aug. 27.
- Bucyrus-Erie Company. (See Armstrong, Edwin J., assignor.)
- Bucyrus-Erie Company. (See Arnaud, Joseph J., assignor.)
- Bucyrus Erie Company. (See Bager, Svante, R. W. M., assignor.)
- Bucyrus-Erie Company. (See Ferris, W., assignor, and Woodhull.)
- Bucyrus-Erie Company. (See Lehman, Werner, assignor.)
- Bucyrus-Erie Company. (See Weston, Clarence B., assignor.)
- Buda Company, The. (See Gormley, Frank L., assignor.)
- Buda Company, The. (See Gormley, F. L., and Bulik, assignors.)
- Buda Company, The. (See Morrill, Lewis H., assignor.)
- Budach, Gustav, Flensburg, Germany. Milking apparatus. 1,727,501; Sept. 10.
- Budai, Blaise, Bayside, N. Y. Necktie holder. 1,735,450; Nov. 12.
- Buday, John, and W. J. Meyer, Milwaukee, Wis., assignors, by mesne assignments, to Modern Machine Works, Inc. Motor-driven lawn mower. 1,722,730; July 30.
- Budd, Edward G., Philadelphia, Pa., and J. H. Hunt, Detroit, Mich., assignors to Budd Wheel Company, Philadelphia, Pa. Apparatus for adjusting rolling mills. 1,730,642; Oct. 8.
- Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
- Budd, Edward G., Manufacturing Co. (See Malloy, John E., assignor.)
- Budd, Edward G., Manufacturing Company. (See McCulley, C., and Ruehlmann, assignors.)
- Budd, Edward G., Manufacturing Company. (See Smidth, Leonard, assignor.)
- Budd, Edward G., Manufacturing Company. (See Stever, William, assignor.)
- Budd, Edward G., Manufacturing Co. (See Tarbox, John F., assignor.)
- Budd, Howard L., assignor to Friedman Silver Co., Inc., Brooklyn, N. Y. Border strip. Des. 77,933; Mar. 12.
- Budd Wheel Company. (See Budd, E. G., and Hunt, assignors.)
- Budd Wheel Company. (See Hughes, James W., assignor.)
- Budd Wheel Company. (See Hunt, Harold J., assignor.)
- Budd Wheel Company. (See Hunt, J. Harold, assignor.)
- Budd Wheel Company. (See Meadowcroft, Joseph, W., assignor.)
- Budd Wheel Company. (See Nelson, Emil A., assignor.)
- Budd Wheel Company. (See Ragsdale, E. J. W., and Haederer, assignors.)
- Budd Wheel Company. (See Stoddard, Hart A., assignor.)
- Budd Wheel Company. (See Zepp, L. Henry, assignor.)
- Buddecke, Hartmut, Charlottenburg, near Berlin, Germany. Fire extinguisher. 1,708,869; Apr. 9.
- Buddenbrock, Charles V., Trinidad, Colo. Soil-treating device. 1,724,449; Aug. 13.
- Buddess, Wilhelm, Berlin-Aldershof, Germany. Reducing ores and the like. 1,732,788; Oct. 22.



- Budds, Walter, Chicago, Ill. Cigar lighter. 1,722,126; July 23.
- Budean, Paul, Akron, Ohio. Alarm device. 1,701,494; Feb. 12.
- Budina, Charles, Blackrock, and P. J. Troddyn, Dublin, Irish Free State. Device for waving hair. 1,713,947; May 21.
- Budel, Alice T., administratrix. (See Tefft, Henry B.)
- Buehler, John B., Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill. Rotor-end guard for pulp beaters and the like. 1,709,246; Apr. 16.
- Buehler, Leon, jr., assignor to Frick Company, Waynesboro, Pa. Variable-capacity-control compressor. 1,740,967; Dec. 24.
- Buehler, Louis E. G., Oak Park, Ill. Lateral-drive speed transformer. 1,737,567; Dec. 3.
- Buehrer, Emil. (See Kress, G., and Buehrer.)
- Buehrle, Philip H., Spottswood, N. J. Grinding attachment for lathes. 1,719,689; July 2.
- Buerger, Vincent, Cheboygan, Mich. Spare-tire carrier. 1,730,121; Oct. 1.
- Buergermeister, Edwin F., Chicago, Ill. Combination kitchen cabinet and refrigerator. 1,718,407; June 25.
- Buerk, Charles A., and J. Dutey, Chicago, Ill. Fire extinguisher. 1,700,465; Jan. 29.
- Bues, August, Berlin-Lichterfelde, assignor to the firm G. Polysius, Dessau, Germany. Grinding body for tube and drum mills. 1,700,667; Jan. 29.
- Buescher, Ferdinand A., Elkhart, Ind. Key pad for wind musical instruments. 1,702,962; Feb. 19.
- Buescher, Ferdinand A., Elkhart, Ind. Key mechanism for wind musical instruments. 1,738,351; Dec. 3.
- Buffalo Bolt Company. (See Blasler, George F., assignor.)
- Buffalo Brake Beam Company. (See Busch, Charles R., assignor.)
- Buffalo Brake Beam Company. (See Crone, Seth A., assignor.)
- Buffalo Co-Operative Stove Co. (See Haber, Lee O., assignor.)
- Buffalo Forge Company. (See Dyer, Orville K., assignor.)
- Buffalo Forge Company. (See Yates, Arthur T., assignor.)
- Buffalo Foundry & Machine Company. (See Miles, Henry D., assignor.)
- Buffalo Steam Pump Company. (See Riklin, Edward C., assignor.)
- Buffalo Weaving and Belting Company. (See Meyer, William C., assignor.)
- Buffington, Harry C. (See Weaver, G. E., and Buffington.)
- Buffington, Harry C., assignor to Weaver Manufacturing Company, Springfield, Ill. Automobile lifting device. 1,701,803; Feb. 12.
- Buffington, Orr, et al. (See Smith, Anthony, assignor.)
- Bufum, Clarence P., Northfield, Mass. Service attachment for bedsteads. 1,707,706; Apr. 2.
- Buford, William J., et al. (See Graham, Joseph A., assignor.)
- Bugatti, Ettore, Molsheim, France. Braking device for the steering gear of motor vehicles. 1,706,521; Mar. 26.
- Bugatti, Ettore, Molsheim, France. Float valve for automobile radiators. 1,721,331; July 16.
- Bugbee, Lucian W., jr., assignor, by mesne assignments, to G. C. Forrey, jr., Indianapolis, Ind. Making multifocal lenses. 1,738,866; Dec. 10.
- Bugbee & Niles Company. (See King, Rufus, assignor.)
- Bugbird, Herbert C., Richmond, N. Y. Preparing explosives, and resulting explosives. 1,706,871; Mar. 26.
- Bugbird, Herbert C., New Brighton, N. Y., assignors to S. D. Warren Company, Boston, Mass. Treating molds. 1,730,801; Oct. 8.
- Bugee, Erling, assignor of one-half to J. Lyng, Seattle, Wash. Washing machine. 1,719,586; July 2.
- Bugh, Wallace W., North Tonawanda, N. Y. Vehicular traffic-signal switch. 1,736,069; Nov. 19.
- Bugler, Arthur G., Chicago, Ill. Shoe attachment. 1,723,918; Aug. 6.
- Buhl, William, assignor to Dravo-Doyle Company, Pittsburgh, Pa. Conveying apparatus. 1,714,945; May 28.
- Bühler, Georg, Vienna, Austria. Core for molds. 1,739,542; Dec. 17.
- Buhler, Henry W., Gloucester, Mass. Trimming for automobiles, furniture, and the like. 1,730,558; Oct. 8.
- Bühler-Rossbach, Annie, Lucerne, Switzerland. Game. 1,705,141; Mar. 12.
- Buhr, Joseph F., Detroit, Mich. Drill head. 1,700,975; Feb. 5.
- Buhr, Joseph F., Detroit, Mich. Tapping chuck. 1,702,810; Feb. 19.
- Bühre, Martin, Hamburg, Germany. Block of ice cylinder. 1,703,471; Feb. 26.
- Bühnig, Wilhelm H. F., Mount Vernon, assignor to The Fleischmann Company, New York, N. Y. Manufacture of yeast. 1,730,876; Oct. 8.
- Buhrke, Alfred E., River Forest, assignor to R. H. Buhrke Co., Chicago, Ill. Golf-club construction. 1,699,874; Jan. 22.
- Buhrke, Alfred E., River Forest, assignor to R. H. Buhrke Co., Chicago, Ill. Golf-club construction. 1,704,119; Mar. 5.
- Buhrke, Alfred E., River Forest, assignor to R. H. Buhrke Co., Chicago, Ill. Golf-club construction. 1,704,165; Mar. 5.
- Buhrke, Alfred E., River Forest, Ill., assignor to R. H. Buhrke Company. Golf tee holder. 1,739,780; Dec. 17.
- Buhrke, R. H., Co. (See Buhrke, Alfred E., assignor.)
- Buick, Charles A., Brooklyn, N. Y. Shoe-buckle support. 1,714,493; May 28.
- Builders Iron Foundry. (See Connet, Frederick N., assignor.)
- Builders' Needs, Incorporated. (See Gotfredson, Henry, assignor.)
- Builders' Patent Scaffolding Company. (See Kingston, Thomas H., assignor.)
- Builder's Patent Scaffolding Company. (See Kingston, Thomas H., assignor.)
- Bukolt, Roman B., Stevens Point, Wis. Side-locking means for bassinets. 1,705,851; Mar. 19.
- Bukolt, Roman B., Stevens Point, Wis. Brake mechanism. 1,707,902; Apr. 2.
- Buley, Amos M., Los Angeles, Calif., and H. Blumenberg, jr., Moapa, Nev. Making aluminum chloride. 1,734,200; Nov. 5.
- Bulik, John. (See Gormley, F. L., and Bulik.)
- Bulkeley, Claude A., and L. W. Child, assignors to Niagara Blower Company, Buffalo, N. Y. Air-conditioning system. 1,737,040; Nov. 26.
- Bulkeley, Paul G., Azusa, Calif., assignor to Kittle Manufacturing Company. Flow regulator. 1,727,744; Sept. 10.
- Bulkeley, Roy C., Addison, and L. B. Wheeler, Painted Post, N. Y. Combined wire stretching and twisting device. 1,733,148; Oct. 29.
- Bull, Archer A., assignor of one-half to O. J. Bennett, North East, Pa. Vine cutter. 1,734,794; Nov. 5.
- Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Roller-cutter mounting. 1,729,062; Sept. 24.
- Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Drill bit. 1,729,063; Sept. 24.
- Bull, Clinton H. M., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 1,734,760; Nov. 5.
- Bull, William F., New York, N. Y. Measuring device. 1,715,405; June 4.
- Bullard Company, The. (See Bullard, Edward P., jr., assignor.)
- Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Power chuck. 1,698,254; Jan. 8.
- Bullard, Edward P., jr., Stratford, assignor to The Bullard Company, Bridgeport, Conn. Tool slide. 1,715,896; June 4.
- Bullard, Edward P., jr., Stratford, and G. F. Kolb, assignors to The Bullard Machine Tool Co., Bridgeport, Conn. Clutch. 1,717,833; June 18.
- Bullard, Edward W., assignor to Pacific Safety Equipment Company, San Francisco, Calif. Hat crown. 1,699,133; Jan. 15.
- Bullard, Ellerslie W., Anniston, Ala. Cape. 1,729,817; Oct. 1.
- Bullard, Herbert A., Syracuse, N. Y., assignor, by mesne assignments, to Rotary Motors Company. Internal-combustion engine. Re17,326; June 18.
- Bullard Machine Tool Company, The. (See Bullard, Edward P., jr., assignor.)
- Bullard Machine Tool Co., The. (See Bullard, E. P., and Kolb, assignors.)
- Bulldog Electric Products Company. (See Frank, Harrison J. L., assignor.)
- Bull Dog Electric Products Company. (See Frank, Harrison, J. L., assignor.)
- Bull Dog Motors Corporation. (See Patrick, Bennett J., assignor.)
- Bullen, Frederick J. (See Chopra, N. D., and Bullen.)
- Bullen, Ralph F. (See Anderson, G. L., and Bullen.)
- Bullerjahn, Adolph D., Chicago, Ill. Sealing apparatus for cartons. 1,724,179; Aug. 13.
- Bullmore, William R., Highbury Grove, London, England. Thermionic valve. 1,718,632; June 25.
- Bullington, Frank A. (See White, N., Overlin, and Bullington.)
- Bullis, Deloss E. (See Wiegand, E. H., and Bullis.)
- Bullis, Rush, Eau Claire, Wis. Hay-cocking machine. 1,718,774; June 25.
- Bullivant, Francis J., assignor to Valley Electric Company, St. Louis, Mo. Radio frequency amplification system. 1,709,837; Apr. 23.
- Bullinheimer, Hans, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Augsburg, Germany. Double-acting two-stroke gas engine with slot scavenging. 1,727,697; Sept. 10.
- Bullock, Albert, Los Angeles, Calif. Automatic self-operating flushing valve. 1,723,599; Aug. 6.
- Bullock, Harold G., Flint, Mich. Combined incinerator and fuel economizer. 1,736,963; Nov. 26.
- Bullock, John, Brooklyn, and L. U. Lacour, Long Island City, N. Y. Elevator saddle. 1,715,188; May 28.
- Bullock's Inc. (See Smalley, Florence P., assignor.)
- Bullum, Steve, Los Angeles, Calif. Wheel. 1,704,120; Mar. 5.
- Bulmahn, Henry E., assignor to The Western Gas Construction Company, Fort Wayne, Ind. Pipe joint. 1,730,994; Oct. 8.
- Bulmahn, Henry E., assignor to The Western Gas Construction Company, Fort Wayne, Ind. Gas-main expansion joint. 1,731,761; Oct. 15.
- Bulman, Elvah O., Grand Rapids, Mich. Display rack. 1,700,976; Feb. 5.
- Bulman, Elvah O., Grand Rapids, Mich. Display rack. 1,705,237; Mar. 12.



- Bulmeni, Sehein M., Buenos Aires, Argentina. Lock. 1,735,035; Nov. 12.
- Bulmer, George D., Duquesne, Pa. Amusement device. 1,730,265; Oct. 1.
- Bulova, Joseph, assignor to Bulova Watch Company, Inc., New York, N. Y. Watch-movement guard. 1,722,969; July 30.
- Bulova Watch Company. (See Bulova, Joseph, assignor.)
- Bump, Spencer M., Lakewood, assignor to The Bettcher Stamping & Manufacturing Company, Cleveland, Ohio. Chair base. 1,717,142; June 11.
- Bumpus, Amos F., Prescott, Ariz., assignor to The Parker Pen Company, Janesville, Wis. Magazine pencil. 1,720,717; July 16.
- Bunstead, Ralph W., Lowell, Mass. Elapsed-running-time counter. 1,739,053; Dec. 10.
- Bunstead, William D., Cleveland, and E. A. Aurada, Cleveland Heights, Ohio, assignors to General Electric Company. Electric welding wires. 1,722,195; July 23.
- Bunce, Earl H. (See Breyer, F. G. and Bunce.)
- Bunce, Gwendoline D., administratrix. (See Bunce, John P.)
- Bunce, John P. (See Prescott, W. E., and Bunce.)
- Bunce, John P., deceased; G. D. Bunce, administratrix, Greenford, England, assignor to Baker Perkins Co., Inc., Saginaw, Mich. Apparatus for measuring and depositing plastic substances. 1,709,519; Apr. 16.
- Bunce, Sydney A., Edgewater, Colo. Coasting device. 1,720,071; July 9.
- Bundy, Guy. (See Harbison, Arthur M., assignor.)
- Bundy, Harry W., Detroit, Mich. Making finned tubing. 1,710,042; Apr. 23.
- Bundy, Harry W., assignor, by mesne assignments, to Bundy Tubing Company, Detroit, Mich. Making finned tubings. 1,720,508; July 9.
- Bundy, Harry W., assignor, by mesne assignments, to Bundy Tubing Company, Detroit, Mich. Spiral finned tubing and making same. 1,734,111; Nov. 5.
- Bundy Steam Trap Co. (See Hebert, Charles W., assignor.)
- Bundy Tubing Company. (See Bundy, Harry W., assignor.)
- Bundy Tubing Company, The. (See Kramer, Nathan, assignor.)
- Bungay, George W., Plainfield, N. J., assignor, by mesne assignments, to The United States Aluminum Company. Casting machine. 1,733,576; Oct. 29.
- Bunge, Friedrich C., Bremen, Germany. Ship's side scuttle. 1,714,544; May 28.
- Bunin, Bunin & Company. (See Bunin, Ellis.)
- Bunin, David, et al. (See Bunin, Ellis, assignor.)
- Bunin, Ellis, et al. (See Bunin, Ellis, assignor.)
- Bunin, Ellis, Brooklyn, N. Y., assignor to E. and D. Bunin and A. Galeas, a partnership doing business as Bunin, Bunin & Company, New York, N. Y. Cutter knife for hemstitching machines. 1,727,807; Sept. 10.
- Bunker, Arthur C., Schenectady, N. Y. Louver. 1,717,346; June 11.
- Bunker, Arthur C., Montclair, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Producing squirrel-cage rotors. 1,719,829; July 9.
- Bunker, Charles A., assignor to Bunker-Clancey Manufacturing Company, Kansas City, Mo. Smoking stand. 1,735,671; Nov. 12.
- Bunker-Clancey Manufacturing Company. (See Bunker, Charles A., assignor.)
- Bunker, Herbert H., Jersey City, N. J. Grating. 1,698,429; Jan. 8.
- Bunker, Herbert H., assignor to Kerlow Steel Flooring Co., Jersey City, N. J. Bending machine. 1,697,947; Jan. 8.
- Bunnell, J. H., & Company. (See Gullicksen, Spencer T., assignor.)
- Bunnell, Mary L., Hagerstown, Ind. Tip for toe-dancing slippers. 1,717,659; June 18.
- Bunte Brothers. (See Helmann, Hugo, assignor.)
- Bunting, Bernard L. M., London, England. Apparatus for cutting various substances. 1,728,227; Sept. 17.
- Bunting Brass & Bronze Company, The. (See Yager, George F., assignor.)
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 78,437; May 7.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 78,438; May 7.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 78,439; May 7.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 78,440; May 7.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 78,441; May 7.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 79,127; Aug. 6.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 79,128; Aug. 6.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 79,129; Aug. 6.
- Bunting, James H., Clifton, N. J. Textile fabric. Des. 79,417; Sept. 17.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 77,879; Mar. 5.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 77,880; Mar. 5.
- Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 77,881; Mar. 5.
- Buono, Julius. (See Buono, Mario and J.)
- Buono, Mario and J., Brooklyn, N. Y. Treating furs and machine therefor. 1,706,392; Mar. 26.
- Buquet, Albert J., Kahns, La. Cane harvester. 1,698,670; Jan. 8.
- Burandt, Gustav A. (See Nordgren, A. W., and Burandt.)
- Burbank, Carrie G., Oakland, Calif. Washstand. Des. 77,934; Mar. 12.
- Burbank, Leonard, Baltimore, Md., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Replaceable receptacle closure. 1,741,918; Dec. 31.
- Burbank, Leonard, Baltimore, Md., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Replaceable closure for receptacles. 1,741,919; Dec. 31.
- Burbridge, Harry C., Fresno, Calif. Drainage control for washing machines. 1,728,659; Sept. 17.
- Burbidge, Philip W., Vancouver, British Columbia, Canada. Self-adjusting screw cap. 1,718,453; June 25.
- Burbrook Company, The. (See Johnson, William K., assignor.)
- Burch, Albert, Medford, Oreg., and L. C. White, Berkeley, Calif. Apparatus for washing fruits and other vegetables. 1,724,639; Aug. 13.
- Burch, Cecil R. (See Brown, W. J., Hubbard, Robinson, and Burch.)
- Burch, Donald D., Earlsboro Camp, Okla. Casing shoe. Re17,217; Feb. 19.
- Burch, Donald D., Okmulgee, Okla. Apparatus for cementing oil wells. 1,712,948; May 14.
- Burch, Frederick R., Seattle, Wash. Wind motor. 1,707,507; Apr. 2.
- Burch, George B., Blake, Nebr. Double-header pump jack. 1,742,055; Dec. 31.
- Burch, John F., and A. H. Morton, Billings, Mont. Safety railway gate. 1,714,074; May 21.
- Burch, John F., and A. H. Morton, Billings, Mont. Fishing creel. 1,737,450; Nov. 26.
- Burch, Julian R., assignor to Star Manufacturing Company, St. Louis, Mo. Pop-corn machine. 1,711,918; May 7.
- Burchell, Edward M., San Jose, Calif. Aeroplane. 1,727,047; Sept. 3.
- Burchill, Roy, Mitchell, Ontario, Canada. Combined excavator and loader. 1,721,587; July 23.
- Burckhart, Amos N., Akron, Ohio. Attachment for automobiles. 1,698,094; Jan. 8.
- Burckhardt, Ernst, F. Müller, and E. Rothlin, assignors to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Derivatives of the cinchona alkaloids. 1,701,138; Feb. 5.
- Burd, Edward M., Jackson, Mich., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. 1,699,497; Jan. 15.
- Burd, Gorman C., Newark, N. J., assignor to American Cable Company, Inc. Hitch for wire rope. 1,722,994; Aug. 6.
- Burda, Joseph, Chicago, Ill. Device for cutting glass. 1,697,044; Jan. 1.
- Burde, Paul J., Vancouver, British Columbia, Canada. Combination illuminated license plate holder and direction indicator for automobiles. Des. 79,620; Oct. 22.
- Burden, Everett, East Liverpool, Ohio. Glove. 1,716,206; June 4.
- Burden, Fern F., Compton, Calif. Pneumatic-tire-deflation indicator. 1,711,108; Apr. 30.
- Burden, Harry C., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Suction-roll shell drilling. 1,741,974; Dec. 31.
- Burdett, James H., Homewood, Ill. Display rack. Des. 79,918; Nov. 19.
- Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Manufacturing and core for hollow rubber articles. 1,714,999; May 28.
- Burdick, Charles L., London, England. Producing decorative effects. 1,728,10; Sept. 10.
- Burdick Corporation, The. (See Anderson, Fritz A., assignor.)
- Burdick Corporation, The. (See Anderson, F. A., and Maxson, assignors.)
- Burdick Corporation, The. (See Maxson, Rolland H., assignor.)
- Burdick, Edward C., assignor to The Dow Chemical Company, Midland, Mich. Surface treatment of light metals. 1,709,894; Apr. 23.
- Burdick, Edward C., assignor to The Dow Chemical Company, Midland, Mich. Magnesium alloy and making same. 1,721,768; July 23.
- Burdick, Frederick E., New London, Conn. Edible roll. 1,726,946; Sept. 3.
- Burdick, John C. (See Dow, J. G., and Galvin, assignors.)
- Burdick, Mary J. (See Gray, C. W., Burdick, Moore, and Sandifur.)
- Burdine, Charles C., Bronxville, N. Y. Weather stripping. 1,728,660; Sept. 17.
- Bureau, Arthur A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reel. 1,702,242; Feb. 19.
- Bureau, Arthur A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for applying the lateral surfaces on containers. 1,717,834; June 18.

- Bureau of Engraving, Inc. (See Davidson, Neil A., assignor.)
- Burg, John C., Brooklyn, N. Y. Wall-plate support for separable cable connectors. 1,741,823; Dec. 31.
- Burge, Arthur L. (See Mooneyhan, Sam, assignor.)
- Burgen, Fred F., Alhambra, assignor of one-fifth to J. G. and S. K. Niederhauser, Monterey Park, Calif. Ceiling-lock-unit partition. 1,725,847; Aug. 27.
- Burger, Alexander, New York, N. Y. Follower for filing-cabinet drawers. 1,738,419; Dec. 3.
- Burger, Charles A., assignor of forty-five one-hundredths to N. G. Burger, Springfield, Mo. Spark-plug tool. 1,713,373; May 14.
- Burger, Frederick W. (See Stockfeth, B., and Burger.)
- Burger, Frederick W., Niles, and B. Stockfeth, Berrien Springs, assignors to Clark Tractor Company, Buchanan, Mich. Vehicle brake-operating means. 1,708,009; Apr. 3.
- Burger, Frederick W., Niles, and B. Stockfeth, Berrien Springs, assignors to Clark Tractor Company, Buchanan, Mich. Steering apparatus for motor vehicles. 1,711,223; Apr. 30.
- Burger, Frederick W., Niles, and B. Stockfeth, Berrien Springs, assignor to Clark Tractor Company, Buchanan, Mich. Attachment for shop tractors. 1,715,815; June 4.
- Burger, Frederick W., and B. Stockfeth, Niles, Mich., assignors to Hydraulic Pressed Bearing Company, Wilmington, Del. Die mechanism and extrusion method of forming metal articles. 1,722,995; Aug. 6.
- Burger, Joseph, Brooklyn, N. Y. Manufacture of wooden heels. 1,709,306; Apr. 16.
- Burger, Joseph, Brooklyn, N. Y. Covering heels. 1,709,307; Apr. 16.
- Burger, Joseph, Brooklyn, N. Y. Wood-heel manufacture. 1,709,308; Apr. 16.
- Burger, Martin, Morris, Ill., assignor to Self Locking Schurmann Company. Machine for setting up cartons. 1,738,034; Dec. 3.
- Burger, Nello G. (See Burger, Charles A., assignor.)
- Burger, Pincus, Brooklyn, N. Y. Ceiling fixture. Des. 78,335; Apr. 23.
- Burger, William A., Berkeley, and R. B. Callahan, Oakland, Calif. Screw-driver attachment. 1,712,196; May 7.
- Burgess and Blacher. (See Burgess, Pearl M.)
- Burgess Battery Company. (See Lorig, Robert A., assignor.)
- Burgess Battery Company. (See Schorger, Arlie W., assignor.)
- Burgess Battery Company. (See Zook, John S., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Brown, Bruce K., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Johnson, George S., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Kliefoth, Max, assignor.)
- Burgess, C. F., Laboratories, Inc. (See Loomis, Ralph L., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Norris, Ralph F., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Schorger, Arlie W., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Slidell, K., and Schultz, assignors.)
- Burgess, C. F., Laboratories Inc. (See Storey, Oliver W., assignor.)
- Burgess, C. F., Laboratories, Inc. (See Storey, O. W., and Zimmerman, assignors.)
- Burgess, C. F., Laboratories, Inc. (See Weiss, Howard F., assignor.)
- Burgess, George A., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Electrically-operated lavatory drier. 1,725,897; Aug. 27.
- Burgess, J. J. (See Tjernlund, Emil J., assignor.)
- Burgess, J. Porter, et al. (See Wakeman, John E., assignor.)
- Burgess, Joseph E., New York, assignor to The United States Printing & Lithograph Company, Brooklyn, N. Y. Display stand. 1,699,875; Jan. 22.
- Burgess, Joseph E., New York, assignor to The United States Printing & Lithograph Company, Brooklyn, N. Y. Display toy aeroplane. 1,741,448; Dec. 31.
- Burgess, Laurie L., Cambridge, Mass., assignor to Plastic, Inc., Keene, N. H. Producing alginic acid compounds and product thereof. 1,729,993; Oct. 1.
- Burgess, Ledward & Company Limited. (See Schofield F., and Denner, assignors.)
- Burgess, Louis, Roselle, N. J. Transparent structure and component parts thereof. 1,729,818; Oct. 1.
- Burgess-Norton Mfg. Co. (See Sunleaf, Arthur W., assignor.)
- Burgess, Paul M., et al. (See Burgess, Pearl M., assignor.)
- Burgess, Pearl M., Reading, Mass., assignor to P. M. Burgess and J. Blacher, doing business as Burgess and Blacher, Boston, Mass. Interlocking wall flashing. 1,703,095; Feb. 26.
- Burgess, Thomas J., Petersburg, Va. Dental bite apparatus. 1,725,249; Aug. 20.
- Burgess, Walter E., Rutherford, N. J., assignor to The Central Foundry Company, New York, N. Y. Cover structure for valve service boxes. 1,704,854; Mar. 12.
- Burgess, William A. A., Monkseaton, and N. Cooke, Sunderland, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electrical-load-sharing apparatus. 1,714,656; May 28.
- Burgess, William J., Arlington Heights, Mass. Flag-waving device. 1,725,250; Aug. 20.
- Burgett, Virgil C., Lorain, Ohio. Tool. 1,714,764; May 28.
- Burghardt, Clair A., Bridgeport, Conn., assignor, by mesne assignments, to American Hair & Felt Company, Chicago, Ill. Ammunition. 1,724,338; Aug. 13.
- Burgher, Clarence L., New York, N. Y. Heating inclosures electrically. Re17,386; July 30.
- Burgwin-Herron Motor Company. (See Lafferty, S. M., and Burgwin, assignors.)
- Burgwin, Howard J. (See Lafferty, S. M., and Burgwin.)
- Burhenne, Carl, Richmond Hill, N. Y. Window stop. 1,715,590; June 4.
- Burhorn, Edwin, Hoboken, N. J. Cooling and condensing tower. 1,732,963; Oct. 22.
- Burill, Ives M. P. J., Neuilly-sur-Seine, France. Catamenial appliance. 1,726,339; Aug. 27.
- Burkard, Ernst P., Hamburg, Germany. Image producer. 1,697,382; Jan. 1.
- Burke, Alfred W., Pelham Manor, assignor to Burke Controller Corporation, New York, N. Y. Device for controlling electric circuits. 1,707,185; Mar. 26.
- Burke, Alfred W., Long Island City, N. Y., assignor to Burke Controller Corporation. Electric switch. 1,719,096; July 2.
- Burke, Charles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing pentaerythrit. 1,716,110; June 4.
- Burke Controller Corporation. (See Burke, Alfred W., assignor.)
- Burke, Edwin, Manila, P. I. Removing detachable mold sides. 1,736,249; Nov. 19.
- Burke, Edwin, assignor to Maxwell-Burke, Incorporated, Chicago, Ill. Kitchen cabinet or similar article. Des. 78,876; July 2.
- Burke, Edwin, Denver, Colo., assignor to Maxwell-Burke Incorporated, Chicago, Ill. Kitchenette. 1,733,577; Oct. 29.
- Burke, Elmer H. (See Ryan, G. F., and Burke.)
- Burke, Frank E., Chicago, Ill. Brake-drum-truing tool. 1,733,578; Oct. 29.
- Burke Golf Company, The. (See Turner, Alexander, assignor.)
- Burke, Guillermo, and M. Acosta, Buenos Aires, Argentina. Spark plug. 1,698,580; Jan. 8.
- Burke, James P., Newark, assignor to Mack Molding Company, Little Falls, N. J. Container cap. Des. 78,805; June 25.
- Burke, John E., Fond du Lac, Wis. Radiator cover and humidifier. 1,739,576; Dec. 17.
- Burke, Joseph J., et al. (See Edwards, James M., assignor.)
- Burke, Joseph V., Mariemont, Ohio. Sandwich toaster. 1,722,127; July 23.
- Burke, Maud. (See Burke, Taylor G. and M.)
- Burke, Myles J., Jersey City, N. J. Portable fire-hose cut-off valve and leak stop. 1,726,176; Aug. 27.
- Burke, Ralph K., Lindsay, Calif. Drill bit. 1,698,873; Jan. 15.
- Burke, Regina, Lyndhurst, N. J. Culinary chopper. 1,697,902; Jan. 8.
- Burke, Regina, Lyndhurst, N. J. Flexible curl-retaining cap. 1,725,251; Aug. 20.
- Burke, Sadie D., Bethlehem, Pa. Lingerie clasp. 1,723,130; Aug. 6.
- Burke, Samuel J., et al. (See Edwards, James M., assignor.)
- Burke, Stephen P. (See McKee, R. H., and Burke.)
- Burke, Stephen P., Jackson Heights, assignor to Doherty Research Company, New York, N. Y. Graphite lubricant. 1,732,221; Oct. 22.
- Burke, Taylor G. and M., New York, N. Y. Ink-vending machine. 1,697,849; Jan. 8.
- Burke, Thomas P., Brooklyn, N. Y. Electric welding. 1,720,662; July 16.
- Burke, Ulysses J., Des Moines, Iowa. Phonograph attachment. 1,732,459; Oct. 22.
- Burke, Wilbur E., East Cleveland, Ohio. Vulcanizing air bags. 1,705,083; Mar. 12.
- Burke, Wilbur E., East Cleveland, assignor to The Electric Vulcanizing Rubber Company, Cleveland, Ohio. Mechanism for vulcanizing tires. 1,700,431; Jan. 29.
- Burke, William E., and H. de Ropp, Trona, Calif., assignors, by mesne assignments, to American Potash & Chemical Corporation, New York, N. Y. Concentration of brines. 1,712,787; May 14.
- Burke, William R., assignor to Signal Accessories Corporation, Utica, N. Y. Solderless bootleg terminal connector. 1,697,826; Jan. 1.
- Burket, Henry E., Chicago, Ill. Radio receiving system and unit. 1,700,625; Jan. 29.
- Burkhard, Myron J., Kansas City, Kans., assignor to White Eagle Oil and Refining Company, Kansas City, Mo. Valve. 1,725,337; Aug. 20.
- Burkhardt, Conrad C., Philadelphia, Pa. Crosstie for electric locomotives. 1,704,651; Mar. 5.
- Burkhardt, Conrad C., Philadelphia, Pa. Crosstie for electric locomotives. 1,704,652; Mar. 5.
- Burkhardt, Floyd B., Topeka, Kans. Ensilage machine. 1,699,520; Jan. 22.



- Burkhardt, Gottlob, Herrenalb, Germany, assignor to J. M. and J. F. Burkhardt and L. Nicholson, Buffalo, N. Y. Water-tube boiler. 1,733,644; Oct. 29.
- Burkhardt, John E., Bath, Me., assignor to J. J. Warren, Brownville, N. Y. Chain for wood-pulp grinders. 1,712,376; May 7.
- Burkhardt, John E., Quincy, Mass., assignor to Bethlehem Shipbuilding Corporation. Fluid-circulating means. 1,717,088; June 11.
- Burkhardt, John F., et al. (See Burkhardt, Gottlob, assignor.)
- Burkhardt, Julius M., et al. (See Burkhardt, Gottlob, assignor.)
- Burkhardt, Allen J. (See Peris, N. U., and Burkhardt.)
- Burkholder, John F., Harrisonburg, Va. Facing apparatus. 1,721,943; July 23.
- Burkholder, John H., Asbland, Ohio, assignor, by mesne assignments, to Elite Manufacturing Company. Vehicle jack. 1,715,897; June 4.
- Burkholder, John H., and G. A. Countryman, Ashland, Ohio, assignor, by mesne assignments, to Elite Manufacturing Company, Hydraulic jack. 1,723,131; Aug. 6.
- Burks, Arthur W., Decatur, Ill. Switch mechanism. 1,710,859; Apr. 30.
- Burlat, Gustave, Villeurbanne, France. Mop. 1,713,374; May 14.
- Burlectas Limited. (See Enock, Arthur G., assignor.)
- Burlew, Gilderoy O., Newark, N. J. Toothbrush. 1,708,050; Apr. 9.
- Bürli, Alois, Lucerne, Switzerland. Junction block for electric conductors. 1,728,330; Sept. 17.
- Burlingame Machine Company. (See Tideman, Carl E., assignor.)
- Burlington Blanket Company. (See Rasch, Gustave C., assignor.)
- Burlington Brass Works. (See Ball, Edward L., assignor.)
- Burmeister, Hans, Berlin, Germany, assignor to Pyrene-Minimax Corporation. Foam-forming composition. 1,732,218; Oct. 22.
- Burmeister, Hans, Berlin, Germany, assignor to Pyrene-Minimax Corporation. Fire-foam delivery apparatus. 1,740,067; Dec. 17.
- Burn, Joseph K., Rocky Mount, N. C. Cementing compound. 1,719,210; July 2.
- Burnelli, Vincent J., New York, N. Y. Airplane. 1,723,763; Aug. 6.
- Burner, William L., Aurora, Ill., assignor to Koppel Industrial Car & Equipment Company, Pittsburgh, Pa. Dump-car-body-tilting mechanism. 1,698,535; Jan. 8.
- Burnett, Charles S., Presidio of San Francisco, Calif. Piston. 1,710,011; Apr. 23.
- Burnett, Ira A., Chicago, Ill. Dispensing device. 1,727,326; Sept. 10.
- Burnett, James M. (See Haddon, W., and Burnett.)
- Burnett, John W., deceased, Cambridge, Mass.; E. E. Black, administratrix. Self-closing faucet. 1,726,885; Sept. 3.
- Burnett, Richard W., Chicago, Ill. Pipe anchor and angle-cock holder. 1,710,965; Apr. 30.
- Burnett, Richard W., Chicago, Ill. Pipe anchor. 1,740,765; Dec. 24.
- Burnett, Robert N., assignor of one-fourth to A. M. Bowman, Houston, Tex. Composition for treating belts and the like. 1,723,328; Aug. 6.
- Burnett, William J., Minneapolis, Minn. Multiple cooker. 1,711,631; May 7.
- Burney, Charles D. (See Wallis, B. N., and Burney.)
- Burney, Charles D., assignor to Airship Guarantee Company, Limited, Westminster, England. Mooring mast for lighter-than-air aircraft. 1,699,606; Jan. 22.
- Burnham Chemical Company. (See Burnham, George B., assignor.)
- Burnham Chemical Company. (See Gauger, A. W., and Storch, assignors.)
- Burnham, Chester W., assignor to Oneida Community, Limited, Oneida, N. Y. Rack for flat tableware. 1,701,062; Feb. 5.
- Burnham, Edward C., assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. 1,704,911; Mar. 12.
- Burnham, Edwin, Glenview, Ill. Protective covering for bathtubs. 1,715,534; June 4.
- Burnham, Fred T., Newton Center, Mass. Tumbler-washing machine. 1,707,159; Mar. 26.
- Burnham, George A., Saugus, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Contact structure for electric switches. 1,697,340; Jan. 1.
- Burnham, George A., Saugus, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,718,809; June 25.
- Burnham, George A., Saugus, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Protective device. 1,720,509; July 9.
- Burnham, George A., Saugus, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Heavy-duty electric switch. 1,737,636; Dec. 3.
- Burnham, George A., Saugus, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Method and apparatus for preventing fires in the vicinity of electric switches. 1,737,637; Dec. 3.
- Burnham, George A., Saugus, assignor to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch and closing mechanism therefor. 1,741,824; Dec. 31.
- Burnham, George B., assignor to Burnham Chemical Company, Reno, Nev. Obtaining sodium chloride. 1,701,295; Feb. 5.
- Burnham, George B., assignor to Burnham Chemical Company, Reno, Nev. Crystallizing salts from brine. 1,724,558; Aug. 13.
- Burnham, Harry S., Schenectady, N. Y. Piston packing. 1,708,256; Apr. 9.
- Burnham, Harry S., Schenectady, N. Y. Ball joint. 1,741,975; Dec. 31.
- Burnham, Lawrence H., Lexington, assignor, by mesne assignments, to Hood Rubber Company Inc., Watertown, Mass. Platen press. 1,737,143; Nov. 26.
- Burnham, Lawrence H., Lexington, and A. Drechsler, assignors to Hood Rubber Company, Watertown, Mass. Lasting jack. 1,726,382; Aug. 27.
- Burnham, Leland F., Pittsburgh, Pa., and P. W. Jones, Los Angeles, Calif., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Multiple pumping-gear unit. 1,731,885; Oct. 15.
- Burnham, Leland F., and B. H. Slocum, Pittsburgh, and E. R. Weber, Avalon, Pa., assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Transmission mechanism. 1,705,713; Mar. 19.
- Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. 1,723,839; Aug. 6.
- Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,723,840; Aug. 6.
- Burnham, Mark B., Savannah, Ga. Spring door closer and check. 1,712,914; May 14.
- Burnham, Morris U., Cincinnati, Ohio, and G. M. Argabrite and A. A. Dionne, Chicago, Ill., assignors to The Alvey-Ferguson Company, Cincinnati, Ohio. Conveying mechanism. 1,706,437; Mar. 26.
- Burnham, Morris U., Cincinnati, Ohio, and G. M. Argabrite and A. A. Dionne, Chicago, Ill., assignors to The Alvey-Ferguson Company, Cincinnati, Ohio. Drying apparatus. 1,740,680; Dec. 24.
- Burnham, Morris U., Cincinnati, Ohio, and G. M. Argabrite and A. A. Dionne, Chicago, Ill., assignors to The Alvey-Ferguson Company, Cincinnati, Ohio. Drying method. 1,740,681; Dec. 24.
- Burnham, Thomas, Moose Jaw, Saskatchewan, Canada. Speed recorder. 1,723,228; Aug. 6.
- Burnheimer, Charles W. (See Recen, Henry A., assignor.)
- Burnier, Michel, Lausanne, Switzerland. Massaging instrument. 1,722,893; July 30.
- Burningham, Foster A., and H. K. Moore, assignors to Brown Company, Berlin, N. H. Recorder. 1,697,455; Jan. 1.
- Burnitol Manufacturing Company. (See Cranshaw, Harold B., assignor.)
- Burnot Fireproofing Products, Inc. (See Hopkins, Nevil M., assignor.)
- Burnot Fireproofing Products, Inc., The. (See Hopkins, Nevil M., assignor.)
- Burns, Alfred, assignor to West Boylston Manufacturing Company, Easthampton, Mass. Making printed fabrics. 1,733,938; Oct. 29.
- Burns, Alfred P., assignor to The Heald Machine Company, Worcester, Mass. Fluid-pressure controlling and reversing mechanism for grinding machines and the like. 1,714,545; May 28.
- Burns, Archie, Des Moines, Iowa. Automatic magnetic separator. 1,698,121; Jan. 8.
- Burns Bottling Machine Works, Incorporated. (See Burns, William L., assignor.)
- Burns, Bruce. (See Hughes, H. R., Lewis, and Burns.)
- Burns, Elmer E., Berwyn, and T. Cohen, Chicago, Ill. Selector and automatic tuner for radiocircuits. 1,700,281; Jan. 29.
- Burns, Elmer E., and T. Cohen, Chicago, Ill. Selector and automatic tuner for radiocircuits. 1,700,282; Jan. 29.
- Burns, Ethel M., Kansas City, Mo. Garment-supporting means. 1,730,405; Oct. 8.
- Burns, Harold D., Yakima, Wash. Grocery cabinet. 1,715,276; May 28.
- Burns, Homer S., and L. S. Bushnell, assignors to Freeport Sulphur Company, Freeport, Tex. Protecting pipe from corrosion. 1,700,995; Feb. 5.
- Burns, Jabez, & Sons, Inc. (See Kirkland, Archibald D., assignor.)
- Burns, James F., assignor to V. V. Fittings Company, Philadelphia, Pa. Switch interlock device. 1,732,181; Oct. 15.
- Burns, John, East St. Louis, Ill. Wheelbarrow. 1,727,271; Sept. 3.
- Burns, Joseph, Lincoln, Nebr. Braced fence post. 1,699,461; Jan. 15.
- Burns, Katherine E., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 77,739; Feb. 19.
- Burns, Leonard S. (See Davis, F. S., and Burns.)
- Burns, Peter C., assignor, by mesne assignments, to American Electric Company, Inc., Chicago, Ill. Holding and distributing apparatus. 1,719,966; July 9.
- Burns, Peter E., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Canopy switch. 1,703,720; Feb. 26.
- Burns, Raymond W., Poughkeepsie, N. Y., assignor to James L. Taylor Manufacturing Co. Clamp carrier. 1,702,036; Feb. 12.
- Burns, Robert F., et al. (See Craig, Chester J., assignor.)



- Burns, Thomas M., Kansas City, Mo. Electric-cord take-up. 1,712,197; May 7.
- Burns, Walter W., Greenport, N. Y., assignor to A. B. Farquhar Company, York, Pa. Lining for combustion chambers. 1,710,860; Apr. 30.
- Burns, Wilford E., Burlingame, assignor to M. J. B. Co., San Francisco, Calif. Can-joint making and apparatus. 1,720,663; July 16.
- Burns, Wilford E., Burlingame, assignor to M. J. B. Co., San Francisco, Calif. Trimming and stripping punch. 1,733,445; Oct. 29.
- Burns, William A., Brondesbury, London, England. Sign. 1,717,434; June 18.
- Burns, William C., Albany, Oreg. Cuboid support. 1,728,780; Sept. 17.
- Burns, William L., assignor to Burns Bottling Machine Works, Incorporated, Baltimore, Md. Bottle-capping machine. 1,726,054; Aug. 27.
- Burns, William L., assignor to Burns Bottling Machine Works, Incorporated, Baltimore, Md. Pressure regulator. 1,726,645; Sept. 3.
- Burr, Harold L., Rockford, Ill. Shirt. 1,714,491; May 28.
- Burrage, Albert C., jr. (See Morse, Henry B., assignor.)
- Burrage, Albert C., jr. (See Zimmermann, Max H., assignor.)
- Burrage, Albert C., Boston, Mass. Presentation of maximum of sunlight to the plants in greenhouses. 1,703,888; Feb. 26.
- Burrage, Albert C., Boston, Mass. Greenhouse construction for the maximum reception of sunlight. 1,718,215; June 25.
- Burrell, Charles E., Shamokin, Pa. Motor-vehicle heater. 1,716,259; June 4.
- Burrell, D. H., & Co. (See Feldmeier, H., and Wray, assignor.)
- Burns, Arthur E., et al. (See Abel, Joseph C., assignor.)
- Burris, Elayers, Cleveland, Ohio. Collapsible umbrella. 1,708,214; Apr. 9.
- Burris, Stephen A., Jourdan, Tex. Tractor. 1,737,568; Dec. 3.
- Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)
- Burroughs Adding Machine Company. (See Magnus, John, assignor.)
- Burroughs Adding Machine Company (See Mueller, Frederick O., assignor.)
- Burroughs Adding Machine Company. (See Pospeshil, Emile J., assignor.)
- Burroughs Adding Machine Company. (See Racz, Ernest, assignor.)
- Burroughs Adding Machine Company. (See Trew, Arthur S., assignor.)
- Burroughs Adding Machine Company. (See White, Nelson, assignor.)
- Burroughs, Perry, Blue Mountain Lake, N. Y. Account book. 1,707,756; Apr. 2.
- Burrow, George W., near Campbell, Calif. Motor. 1,721,855; July 23.
- Burrows, E. T., Company, The. (See Fields, Charles E., assignor.)
- Burrows, E. T., Company, The. (See Gowell, Ernest E., assignor.)
- Burrows, E. T., Company, The. (See King, William J., assignor.)
- Burrows, Gilbert C., Toronto, Ontario, Canada. Window-screen attachment. 1,737,041; Nov. 26.
- Burrows, Charles F., Jacksonville, Fla. Agricultural machine. 1,731,332; Oct. 15.
- Burrows, Charles W., New York, assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y. Method of and apparatus for testing magnetizable objects. 1,730,966; Oct. 8.
- Burrows, Robert J., assignor to Clark Tractor Company, Buchanan, Mich. Automobile truck. 1,707,428; Apr. 2.
- Burrows, Robert J., assignor to Clark Tractor Company, Buchanan, Mich. Shop tractor. 1,715,639; June 4.
- Burrows, Spencer F., London, England. Supporting of cradles from crowned, domed, or similar structures. 1,705,958; Mar. 19.
- Burrows, Stanley Petone, Wellington, New Zealand. Pump. 1,713,417; May 14.
- Burrows, William E., Chicago, Ill. Cotton harvester. 1,727,745; Sept. 10.
- Burrows, William R., Newark, N. J. Making incandescent lamps. 1,736,767; Nov. 19.
- Burrows, William R., Newark, N. J., assignor to General Electric Company, Apparatus for making incandescent lamps. 1,736,766; Nov. 19.
- Bursley, Edmund S., Dexter, and A. P. Trask, assignors to Trask Industries, Incorporated, Bangor, Me. Charge cleaning and conditioning device for internal-combustion engines. 1,703,867; Mar. 5.
- Burton, Joel J., Mineral Wells, Tex. Egg case. 1,731,841; Oct. 15.
- Burton Knitting Company. (See Parker, William S., assignor.)
- Burton Knitting Company. (See Rolston, Walter F., assignor.)
- Burton, Wilson W., Rockford, Ill. Knitting machine. 1,717,660; June 18.
- Burton, Wilson W., Rockford, Ill. Knitting machine. 1,721,247; July 16.
- Burson, Wilson W., assignor to B. Z. B. Knitting Company, Rockford, Ill. Knitting machine. 1,728,661; Sept. 17.
- Burstall, Aubrey F., assignor to Synthetic Ammonia & Nitrates, Limited, Stockton-on-Tees, England. Valve. 1,721,204; July 16.
- Burstall, William H., Huntington Park, Calif. Packer. 1,710,203; Apr. 23.
- Burstin, Max, New York, N. Y. Door hanger. 1,722,731; July 30.
- Bürstyn, Walther, Berlin-Wilmersdorf, Germany, assignor to General Electric Company. Automatic circuit controller. 1,728,038; Sept. 10.
- Burt, Cora W. (See Burt, Harry B., assignor.)
- Burt, Cora W., et al., executors. (See Burt, Harry B.)
- Burt, F. N., Company. (See Dreux, Alexander H., assignor.)
- Burt, F. N., Company. (See Nuernberger, Christ L., assignor.)
- Burt, F. N., Company. (See Royal, Joseph N., assignor.)
- Burt, Harold A., St. Albans, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing machine. 1,705,556; Mar. 19.
- Burt, Harry B., deceased, Youngstown, Ohio; C. W. Burt and The Dollar Savings and Trust Company, executors, assignors to Cora W. Burt. Frozen confection. 1,718,997; July 2.
- Burt, Hugh V., Rock Island, Ill. Fishhook holder. 1,697,588; Jan. 1.
- Burt Machine Company. (See Wild, Charles H., assignor.)
- Burtchaeil, Arthur E., San Francisco, Calif. Apparatus for arranging articles for stacking. 1,737,042; Nov. 26.
- Burtchaeil, Samuel W., Oakland, Calif. Shoe-sole-cementing apparatus. 1,726,691; Sept. 3.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,697,553; Jan. 1.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,697,554; Jan. 1.
- Burnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Engine. 1,720,262; July 9.
- Burnett, Everett R., assignor, by direct and mesne assignments, to The Automotive Valves Co., Los Angeles, Calif. Internal-combustion engine. 1,723,465; Aug. 6.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,703,096; Feb. 26.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,731,227; Oct. 8.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,731,228; Oct. 8.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,731,229; Oct. 8.
- Burnett, Everett R., Los Angeles, Calif., assignor to The Automotive Valves Corporation, Reno, Nev. Internal-combustion engine. 1,731,230; Oct. 8.
- Burton, Arlington L., Cleveland, Ohio. Safety appliance. 1,739,543; Dec. 17.
- Burton, Carroll, Johnstown, Pa. Oven. 1,704,280; Mar. 5.
- Burton, Charles S., Oak Park, Ill., assignor, by mesne assignments, to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Rebound check for vehicles. 1,699,684; Jan. 22.
- Burton, Everett T., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric signaling. 1,708,934; Apr. 16.
- Burton, Frank C., Chicago, Ill. Radiocabinet. Des. 79,787; Nov. 5.
- Burton, Frank C., assignor to Grigsby-Grunow Co., Chicago, Ill. Radiocabinet. Des. 77,529; Jan. 22.
- Burton, Frank C., assignor to Grigsby-Grunow Company, Chicago, Ill. Radiocabinet. Des. 77,882; Mar. 5.
- Burton, Frank C., assignor to Grigsby-Grunow Company, Chicago, Ill. Radiocabinet. Des. 79,951; Nov. 26.
- Burton, Frank C., assignor to Grigsby-Grunow Company, Chicago, Ill. Combination radio and phonograph cabinet. Des. 79,952; Nov. 26.
- Burton, Frank C., assignor to Grigsby-Grunow Company, Chicago, Ill. Escutcheon plate for radioreceiver. Des. 79,953; Nov. 26.
- Burton, Frank F., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Trigger mechanism for firearms. 1,741,281; Dec. 31.
- Burton, George W., Larchmont, N. Y. Lighting fixture. 1,709,931; Apr. 23.
- Burton, Howard, Detroit, Mich. Article holder. 1,719,870; July 9.
- Burton-Page Company. (See Blatz, Albert, jr., assignor.)
- Burton, Paul C. (See Turner, W., and Burton.)
- Burton, Ralph B., Indianapolis, Ind. Article of furniture. 1,735,851; Nov. 19.
- Burton, Ralph J., Detroit, Mich., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,719,211; July 2.
- Burton, Robert N., et al. (See Duffy, Thomas I., assignor.)
- Burton, Robert N., trustee. (See Forsyth, Robert, assignor.)
- Burton, Warren D. (See Page, C. B., Burton, Mayr, and White.)
- Burton, William J., jr., Wilmar, Calif. Vehicular toy. Des. 79,621; Oct. 22.



- Burts, Reubin D., Sylvester, Ga. Harvester for peanuts and other plants. 1,719,871; July 9.
- Burt, Frank, Kalamazoo, Mich. Cleaning machine. 1,712,449; May 7.
- Burvenick, Benjamin, assignor to Lalance & Grosjean Mfg. Co., New York, N. Y. Article-shaping apparatus. 1,711,445; Apr. 30.
- Burvenick, Benjamin, assignor to Lalance and Grosjean Manufacturing Company, Woodhaven, N. Y. Device for mixing and straining liquids. 1,740,223; Dec. 17.
- Burwell, Arthur W., Niagara Falls, assignor to Alox Chemical Corporation, New York, N. Y. Production of hydrogen and carbon by thermal decomposition of hydrocarbons. 1,717,354; June 18.
- Burwell, Loring D., Minnetonka, Minn., assignor to Westinghouse Electric and Manufacturing Company. Underfeed stoker. 1,702,891; Feb. 19.
- Busch, August A., sr. (See Busch, John B., sr., assignor.)
- Busch, Charles H. (See Kusterie, F., and Busch.)
- Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Railway-brake-beam support. 1,708,117; Apr. 9.
- Busch, John B., sr., Washington, assignor of one-half to A. A. Busch, sr., St. Louis, Mo. Closure for bottles and the like. 1,706,209; Mar. 19.
- Busch, Otto, Lieberwolkwitz, Germany. Drying system for use with annular kilns. 1,718,190; June 18.
- Busch, Otto, Liebertwolkwitz, Germany. Circular kiln. 1,724,392; Aug. 13.
- Busch, Rudolph, sr., Shelltown, Md. Painter's duster safety clip. 1,706,953; Mar. 26.
- Busch Sulzer Bros.-Diesel Engine Company. (See Hawks, Arthur S., assignor.)
- Busch-Sulzer Bros. Diesel-Engine Co. (See Hefti, Wilhelm, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Rotter, Max, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Tacchella, Adolf, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See von Salis, Eduard, assignor.)
- Busch, Vern W., South Bend, Ind. Forming celluloid articles. 1,737,874; Dec. 3.
- Buscher, Jacob P., Rock Rapids, Iowa. Pin spotter and pin. 1,707,457; Apr. 2.
- Busco, John, assignor of thirty-three per cent to E. M. Altman, New York, N. Y. Device for identifying articles. 1,723,011; Aug. 6.
- Buse, Otto, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Sulphur-burning apparatus. 1,714,657; May 28.
- Buse, Otto H., Shaker Heights, and R. R. Reid, Lakewood, assignors, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Tool for double-stage furnaces. 1,713,418; May 14.
- Bush, Bert D. (See Conover, W. E., and Bush.)
- Bush-Brown, Henry K., Washington, D. C., assignor to trustees for the Inaugural Committee of 1929 and successive inaugural committees. Medal. Des. 78,497; May 7.
- Bush, John C. (See Williams, E. H., and Bush.)
- Bush, Paul L., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Shoe sole. Des. 78,191; Apr. 9.
- Bush, Rankin J., McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,707,250; Apr. 2.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Spring support. 1,703,058; Feb. 19.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,706,770; Mar. 26.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,709,003; Apr. 16.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,713,497; May 14.
- Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,733,682; Oct. 29.
- Bush, Sidney J. (See Henry, Arthur J., assignor.)
- Bush, Vannevar, West Medford, assignor to Raytheon Inc., Cambridge, Mass. Electrical condenser. 1,709,427; Apr. 16.
- Bush, Zimri H., Great Bend, N. Y. Loading and unloading device for endless conveyors. 1,706,913; Mar. 26.
- Busha, Jeff A., Waterford, assignor to Geo. P. Ide & Company, Inc., Troy, N. Y. Buttonholes and making them. 1,722,653; July 30.
- Bushok, Frank J., Chicago, Ill. Window-shade-adjusting device. 1,715,640; June 4.
- Bushnell, Anthony J., Carnegie, Pa. Antiskid device. 1,708,353; Apr. 9.
- Bushman, Andrew K., Oak Park, Ill., assignor to General Electric Company. Maintaining distribution of load between Leonard drives. 1,708,870; Apr. 9.
- Bushman, Edward L. (See Bushman, Robert P. and E. L., and Fegely.)
- Bushman, Fletcher H., Point Pleasant, Ohio. Animal trap. 1,713,167; May 14.
- Bushman, Louis, Toledo, Ohio. Comb brush. 1,711,486; May 7.
- Bushman, Robert P., South Orange, N. J., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Bag-filling machine. 1,722,128; July 23.
- Bushman, Robert P., East Orange, and E. L. Bushman, South Orange, N. J., and N. M. Fegely, Iola, Kans., assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Bag-filling machine. 1,713,023; May 14.
- Bushnell, Charles S. (See Howe, W. K., and Bushnell.)
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,700,696; Jan. 29.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Brake-applying apparatus. 1,703,835; Feb. 26.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Track element for intermittent inductive train-control systems. 1,706,839; Mar. 26.
- Bushnell, Charles S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Train control. 1,710,654; Apr. 23.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Intermittent inductive train-control receiver. 1,710,655; Apr. 23.
- Bushnell, Charles S., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Train-control system for railroads. 1,717,330; June 11.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system for railroads. 1,717,331; June 11.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system for railroads. 1,717,332; June 11.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Reversing switch for train-control systems. 1,717,333; June 11.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train control acknowledging contactor. 1,725,729; Aug. 20.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Permissive automatic train-control system. 1,730,317; Oct. 1.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,730,842; Oct. 8.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,730,843; Oct. 8.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Receiving device for intermittent inductive train-control systems. 1,733,982; Oct. 29.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system. 1,736,732; Nov. 19.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system. 1,736,733; Nov. 19.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system. 1,736,734; Nov. 19.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system. 1,736,735; Nov. 19.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system. 1,736,736; Nov. 19.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system. 1,736,737; Nov. 19.
- Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Pneumatic concrete-placing machine. 1,707,653; Apr. 2.
- Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Concrete conveying and agitating vessel. 1,714,588; May 28.
- Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Gravity concrete-distributing apparatus. 1,721,068; July 16.
- Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Elevating apparatus for building materials, etc. 1,723,721; Aug. 6.
- Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Material-control mechanism for concrete mixers. 1,728,527; Sept. 17.
- Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Liquid-measuring device. 1,740,390; Dec. 17.
- Bushnell, Lyman S. (See Burns, H. S., and Bushnell.)
- Bushnell, Lyman S., assignor to Freeport Sulphur Company, Freeport, Tex. Applying a protective coating to pipe. 1,700,996; Feb. 5.
- Busignies, Henri, St. Cloud, France. Radio direction finder, hertzian compass, and the like. 1,741,282; Dec. 31.
- Busk, Anthony S., assignor to Hoe Corporation, Poughkeepsie, N. Y. Printing machine. 1,730,122; Oct. 1.
- Buskard, Samuel G., Richmond Hill, N. Y. Spraying device. 1,727,962; Sept. 10.
- Buske, Walter C., Pittsburgh, Pa. Coffee percolator. 1,712,548; May 14.
- Buss, August, Detroit, Mich. Radiator relief valve. 1,741,612; Dec. 31.



- Bussard, Claude, Paris, assignor to the Firm: Société d'Applications et de Recherches Scientifiques et Industrielles, Issy, Seine, France. Sorting machine. 1,723,539; Aug. 6.
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Mounting for brake-beam safety bars. 1,701,945; Feb. 12.
- Busse, Edwin G., and H. W. Ekholm, assignors to Chicago Railway Equipment Company, Chicago, Ill. Brake-connecting-rod safety guard. 1,724,255; Aug. 13.
- Bussinger, Eugene M., Chicago, Ill. Window wiper. 1,706,053; Mar. 19.
- Bussler, Martha E., New Orleans, La. Dehydrating apparatus. 1,704,912; Mar. 12.
- Bussmann, Aloysius B. (See Bussmann, Frank H., A. B., and H. T.)
- Bussmann, Frank H., A. B., and H. T., St. Louis, Mo. Portable electric utility lamp. 1,716,516; June 11.
- Bussmann, Henry T. (See Bussmann, Frank H., A. B., and H. T.)
- Bussmann, Henry T., St. Louis, Mo. Electric fuse. 1,735,672; Nov. 12.
- Butcher, Charles A., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Short-circuit detector. 1,741,976; Dec. 31.
- Butcher, Della, Chehalis, Wash. Artificial flowers and making the same. 1,732,739; Oct. 22.
- Butcher, John H. (See Young, A. P., and Butcher.)
- Butcher, John H., Rugby, and G. H. Bird, Coventry, England, assignors to General Electric Company. Telephone receiver and like instrument. 1,728,039; Sept. 10.
- Butcher, Kearney, Ascot Vale, Victoria, Australia. Collapsible stretcher. 1,741,449; Dec. 31.
- Butcher, Percy, Jacksonville, Fla. Piston. 1,738,352; Dec. 3.
- Butera, Thomas, Brooklyn, N. Y. Tailor's kit. 1,724,069; Aug. 13.
- Buti, Marsilo, Point Arena, Calif. Arch support. 1,705,002; Mar. 12.
- Butler, Albert, assignor to Percy Hermant Limited, doing business as Imperial Optical Company, Toronto, Canada. Cylinder-lens-grinding machine. 1,699,045; Jan. 15.
- Butler, Arthur C., Boston, Mass. Drawing mechanism. 1,702,641; Feb. 19.
- Butler, Arthur C., Boston, Mass. Drawing mechanism. 1,720,718; July 16.
- Butler, Chancey W., assignor of one-third to W. A. Sloper and one-third to C. O. Sloper, Independence, Oreg. Store delivery apparatus. 1,703,987; Mar. 5.
- Butler, Charles A., Okmulgee, Okla. Casing spider. 1,708,051; Apr. 9.
- Butler, Charles A., Okmulgee, Okla. Casing clamp. 1,715,189; May 28.
- Butler, Charles H. (See Birdsall, Edward T., assignor.)
- Butler, Charles R. (See Resmussen, C. A., Butler, and Trout.)
- Butler, Charles R., Indianapolis, Ind. Microadjusting device. 1,727,098; Sept. 3.
- Butler, Claude C., Alikichi, Okla. Automatic fire extinguisher. 1,730,802; Oct. 8.
- Butler, Clinton C., Pomona, Calif. Lock check pin. 1,716,111; June 4.
- Butler, Clyde A., Columbus, Ga. Vending machine. 1,713,466; May 14.
- Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Fluid-pressure rotor. 1,728,528; Sept. 17.
- Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Fluid rotor. 1,728,529; Sept. 17.
- Butler, Clyde G., Cincinnati, Ohio, assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating coupling nipple. 1,734,996; Nov. 12.
- Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. High-pressure lubricator. 1,737,783; Dec. 3.
- Butler, Clyde G., assignor to Cincinnati Ball Crank Company, Cincinnati, Ohio. Portable grease dispenser. 1,739,438; Dec. 10.
- Butler, Edward S., et al. (See Reilly, Clarence J., assignor.)
- Butler, Frank D., Norfolk, Va. Combustion engine method and apparatus. 1,734,286; Nov. 5.
- Butler, Harold P., New York, N. Y. Liquefied rubber composition and making the same. 1,710,470; Apr. 23.
- Butler, Henry E., Scotia, assignor of one-half to D. M. Diggs, Schenectady, N. Y. Paper clip. 1,700,977; Feb. 5.
- Butler, Henry E., Scotia, N. Y., assignor to General Electric Company. Series street-lighting socket. 1,713,215; May 14.
- Butler, Henry E., Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling device. 1,701,357; Feb. 5.
- Butler, James A. (See Graham, Paul C., assignor.)
- Butler, James, Harrietsville, Ontario, Canada. Automobile brake. 1,726,422; Aug. 27.
- Butler, Jay H., Newark, Ohio. Motor-vehicle body. 1,719,587; July 2.
- Butler, Jeremiah, assignor of one-half to I. P. Walton, Oxford, Pa. Solder for cast iron and other metals for surfacing them. 1,697,714; Jan. 1.
- Butler, Jeremiah, assignor of one-half to I. P. Walton, Oxford Pa. Solder for aluminum. 1,697,715; Jan. 1.
- Butler, Leonard L., assignor of one-half to E. A. Willner, sr., Lincoln, Nebr. Quick-tire-change device. 1,711,875; May 7.
- Butler, Lowell C., et al. (See Tyson, Robert B., assignor.)
- Butler Manufacturing Company. (See Glover, William C., assignor.)
- Butler, Noble C. (See Jones, L. S., Fisher, Henrikson and Butler.)
- Butler, Raymond C., Detroit, Mich., assignor of one-half to J. B. Ford, Russells Point, Ohio. Coin-controlled pencil printing, sharpening, and vending machine. 1,702,811; Feb. 19.
- Butler, Reese C., Mount Vernon, Ohio, assignor to Jefferson Electric Company, Chicago, Ill. Refillable fuse. 1,730,643; Oct. 8.
- Butler, Thomas H., assignor of three-eighths to W. D. Stoop, three-eighths to G. A. Allen, and one-fourth to T. N. Lewis, Denver, Colo. Wing-window holder for locomotive cabs. 1,741,500; Dec. 31.
- Butler, Thomas J., Harrison, N. J. Motor boat and propelling means therefor. 1,724,559; Aug. 13.
- Butler, William A., Suffolk, Va. Traffic-signaling device. Des. 77,883; Mar. 5.
- Butler, William F., Hillside, N. J., assignor to American Can Company, New York, N. Y. Key-welding apparatus. 1,699,091; Jan. 15.
- Butler, William J., San Francisco, Calif. Belt buckle. 1,723,841; Aug. 6.
- Butler, William J., Cranston, assignor to Henry Lederer & Bros. Inc., Providence, R. I. Pocket cigar lighter. Des. 77,668; Feb. 12.
- Butman, Louis S., Culver City, assignor of one-half to C. H. Ohm, Los Angeles, Calif. Sadiron. 1,697,224; Jan. 1.
- Butman, Samuel, jr., Merkel, Tex. Grain header. 1,703,721; Feb. 26.
- Butrick, James O., Muskegon, Mich. Feed collet. 1,707,218; Apr. 2.
- Buttenuth, Robert N., New York, N. Y. Cover. 1,734,761; Nov. 5.
- Butterfield, Fred, & Co. (See Currier, K. G., and Heinrich, assignors.)
- Butterfield, Percy L. (See Casticum, M., and Butterfield.)
- Butterick, Naason Z., Miami, Fla. Wardrobe suitcase. 1,730,058; Oct. 1.
- Butterworth, H. W., & Sons Company. (See Brown, William W., assignor.)
- Butterworth, H. W., & Sons Company. (See Ehnts, Frederic H., assignor.)
- Butterworth, H. W., & Sons Company. (See Rowley, W. S., and Butterworth, assignors.)
- Butterworth, Harry W., jr. (See Rowley, W. S., and Butterworth.)
- Butterworth, Josephine M., et al. (See Butterworth, Samuel D., assignor.)
- Butterworth, Samuel D., Detroit, Mich., assignor of one-half to J. M. Butterworth and one-half to C. P. Gable, Gable, S. C. Treating cypress. 1,736,186; Nov. 19.
- Buttles, William S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for coating finely-divided particles. 1,726,340; Aug. 27.
- Büttner, Carl A., Berlin, Germany. Coffee percolator. 1,706,771; Mar. 26.
- Buttner, Robert O. K., assignor to "Universelle" Sigarettenschneidemaschinen-Fabrik J. C. Miller & Co., Dresden, Germany. Rod-cigarette machine. 1,726,256; Aug. 27.
- Buttner, William C., assignor to The Bastian-Blessing Company, Chicago, Ill. Spout. 1,709,458; Apr. 16.
- Buttolph, Leroy J., Grantwood, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. High-intensity induction lamp. 1,698,691; Jan. 8.
- Button, George W., Corporation. (See Sierad, Albert E., and M., assignors.)
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Tray or similar article. Des. 77,884; Mar. 5.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Comb or similar article. Des. 77,885; Mar. 5.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Scissors or similar article. Des. 77,886; Mar. 5.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Tray or similar article. Des. 77,887; Mar. 5.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Comb or similar article. Des. 77,888; Mar. 5.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Jewel box or similar article. Des. 77,889; Mar. 5.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Toilet-article holder or similar article. Des. 79,013; July 23.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Mirror or similar article. Des. 79,014; July 23.
- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Toilet-article holder or similar article. Des. 79,015; July 23.



- Buttrick, William M., New York, N. Y., and R. P. Piperoux, Westwood, N. J., assignors to Celluloid Corporation. Mirror or similar article. Des. 79,016; July 23.
- Butts, Archibald R., Emmett, Kans. Drill-tool connection. 1,714,899; May 28.
- Butts, Daniel G., Covington, La. Casement-window adjuster. 1,738,282; Dec. 3.
- Butts, Horace R., Minneapolis, assignor of one-half to W. Fosnes, St. Paul, Minn. Stopper faucet. 1,733,645; Oct. 29.
- Butusov, Emil P., Hollywood, assignor of one-half to D. Lewy, Chicago, Ill. Elevator signaling system. 1,699,685; Jan. 22.
- Butusov, Emil P., Hollywood, assignor of one-half to D. Lewy, Chicago, Ill. Elevator signaling system. 1,699,687; Jan. 22.
- Butz, Charles P., St. Louis, Mo. Loose-leaf binder. 1,720,997; July 16.
- Butz, Delbert W., and M. M. Uitts, Kokomo, Ind. Knock-down variable-unit cabinet. 1,729,865; Oct. 1.
- Buvinger, George A., (See Kettering, C. F., and Buvinger.)
- Buyinger, George A., and C. Warner, assignors to Delco-Light Company, Dayton, Ohio. Power transmission. 1,722,273; July 30.
- Bux, Julius R., (See Daniels, Cornelius, assignor.)
- Buxbaum, Bertold, Berlin-Charlottenburg, Germany. Adjustable setting-up piece for tools and work pieces. 1,716,762; June 11.
- Buxbaum, Bertold, Berlin-Charlottenberg, Germany. Sawing or cutting-off machine for cutting rods into pieces. 1,727,427; Sept. 10.
- Buxbaum, Karl, Philadelphia, Pa. Needle threader. 1,704,530; Mar. 5.
- Buxton, Ethel L., Kansas City, Mo. Device for representing time and rhythm. 1,704,551; Mar. 5.
- Buxton, Ethel L., Kansas City, Mo. Keyboard and staff reader. 1,724,904; Aug. 20.
- Buxton, Warner R., Longmeadow, Mass. Tobacco pouch. 1,729,152; Sept. 24.
- Buxton, Warner R., Longmeadow, Mass. Bill fold. 1,741,009; Dec. 24.
- Byers, Orville, Pittsburgh, Pa. Protecting device for electrical cable connections. 1,708,292; Apr. 9.
- Buz, Ernst, Sonneberg, Germany. Folding walking stick or similar object usable as a seat. 1,704,683; Mar. 5.
- Buzzer, Robert B., Charleston, W. Va. Photograph-album page. 1,735,524; Nov. 12.
- Eyberg, Jonas J., Silverton, Oreg. Machine for washing fruit, etc. 1,705,959; Mar. 19.
- Eye, Mortimer, assignor to The William S. Merrell Company, Cincinnati, Ohio. Blood coagulant. 1,697,162; Jan. 1.
- Eyerlein, Arthur A., Detroit, Mich., assignor to The Hamilton Press & Machinery Company, Hamilton, Ohio. Power-press control. 1,706,141; Mar. 19.
- Eyerlein, Arthur A., Detroit, Mich., assignor to The Hamilton Press & Machinery Company, Hamilton, Ohio. Clutch. 1,707,843; Apr. 2.
- Byers, A. M., Company. (See Gross, H. E., and Tishlarich, assignors.)
- Byers, Daniel E., (See Neilsen, K. P., and Byers.)
- Byers, Daniel E., Long Beach, Calif. Lower-pump-valve assembly. 1,726,804; Sept. 3.
- Bykowsky, John, West Warwick, R. I. Insect trap. 1,723,919; Aug. 6.
- Byl, George N., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Deflection dynamometer. 1,722,036; July 23.
- Byl, George N., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Drop-wire hanger. 1,725,610; Aug. 20.
- Byland, Lucile, Portland, Oreg. Egg and cream beater. 1,702,862; Feb. 19.
- Byland Realty & Construction Company, The. (See Hayden, Benjamin F., assignor.)
- Eyles, Elwood L., Central Village, Conn. Adjustable step for stilts. 1,710,293; Apr. 23.
- Byles, Frank A., Schenectady, N. Y., assignor to General Electric Company. Electric regulator. 1,713,168; May 14.
- Byles, Frank A., Schenectady, N. Y., assignor to General Electric Company. Electrical regulator. 1,728,853; Sept. 17.
- Byrd, Britton E., assignor to Mill Devices Company, Inc., Gastonia, N. C. Knitter. 1,714,946; May 28.
- Byrd, Britton E., assignor to Mill Devices Company, Inc., Gastonia, N. C. Knitter. 1,720,817; July 16.
- Byrd, Hugh L., Stockport, assignor to Drey, Simpson & Company, Limited, South Reddish, near Stockport, England. Beat-up and weft-inserting mechanism for shuttleless looms. 1,717,089; June 11.
- Byrd, Hugh L., Stockport, assignor to Drey, Simpson & Company, Limited, South Reddish, near Stockport, England. Shuttleless loom for weaving fabrics. 1,717,090; June 11.
- Byrd, Otis C., (See Morris, G. A., and Byrd.)
- Byrde, Edwin A., Adra, British India. Rail joint for permanent-way rails. 1,722,894; July 30.
- Byrne, H. H., (See Meissner, Alvin R., assignor.)
- Byrne, Henry J., St. John, N. Dak. Sawing-unit attachment for tractors. 1,712,291; May 7.
- Byrne, John F., Kalamazoo, Mich. Container. 1,712,249; May 7.
- Byrne, John F., Kalamazoo, Mich. Container. 1,717,367; June 18.
- Byrne, John S., Berkeley, Calif. Fireplace heater. 1,706,142; Mar. 19.
- Byrne, Lawrence, and G. P. Lowell, Chicago, Ill. Soldering iron. 1,724,070; Aug. 13.
- Byrne Manufacturing Company, The. (See Runser, Frederick J., assignor.)
- Byrnes, Clarence P., trustee. (See James, Joseph H., assignor.)
- Byrnes, Clarence P., Sewickley, Pa. Drawing sheet glass. 1,697,104; Jan. 1.
- Byrnes, Irving F., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,698,706; Jan. 8.
- Byrnes, Irving F., Schenectady, N. Y., assignor to General Electric Company. Crystal-controlled oscillator. 1,722,196; July 23.
- Byrnes, James H., San Francisco, Calif., assignor, by mesne assignments, to S. H. Pomeroy Company, Inc., New York, N. Y. Metal window. 1,725,730; Aug. 20.
- Byron Jackson Pump Co. (See Grant, John, assignor.)
- Byron Jackson Pump Co. (See Hollander, Aldar, assignor.)
- Byron Jackson Pump Co. (See Hollander, A., and Forward, assignors.)
- Byron Jackson Pump Co. (See Wilson, E. C., and Woolway, assignors.)
- Bystricky, Joseph, Cleveland, Ohio, assignor, by mesne assignments, to Alemita Manufacturing Corporation, Chicago, Ill. Retaining means for springs. 1,700,349; Jan. 29.
- Bystricky, Joseph, Chicago, Ill. Coupling device. 1,725,975; Aug. 27.
- C. & C. Engineering Co., (See Carrey, John O., assignor.)
- C. G. Haubold Aktiengesellschaft. (See Tandel, Fritz, assignor.)
- C. G. Spring & Bumper Company, The. (See Goodrich, Francis H., assignor.)
- C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Flum, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Keeler, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Rasmussen, assignors.)
- C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Van Husen, assignors.)
- C. G. Spring & Bumper Company. (See Sohl, Edgar A., assignor.)
- C. S. Engineering Company. (See Schellens, Christopher A., assignor.)
- C-S Engineering Company. (See Schellens, C. A., and Coffin, assignors.)
- C-S Engineering Company. (See Schellens, E. F. and Coffin, assignors.)
- Caballero, Juan. (See Stout, C. H., and Caballero.)
- Caballero, Juan, South Orange, and J. Lopez, Newark, N. J. Multicolored automatic pencil. 1,732,591; Oct. 22.
- Cabell, Charles E., (See Underwood, J. E., and Cabell.)
- Cabell, Philip M., New York, N. Y. Apparatus for supplying steam or other vapors. 1,737,826; Dec. 3.
- Cabell, Philip M., New York, N. Y. Apparatus for supplying steam to internal-combustion engines. 1,739,749; Dec. 17.
- Cable, George W., Marysville, Calif. Elastic shoe sole. 1,736,576; Nov. 19.
- Cable, Julius L., Boston, Mass. Chair. 1,719,532; July 2.
- Cable, Julius L., Boston, Mass. Folding chair. 1,730,916; Oct. 8.
- Cable, Julius L., Boston, assignor to L. H. Harriman, Haverhill, Mass. Folding chair, 1,700,022; Jan. 22.
- Cabot Co. (See Duerr, Winslow A., assignor.)
- Cabot, James J., Charleston, W. Va. Cave finder. 1,708,354; Apr. 9.
- Cabot, Sewall, Brookline, Mass. Synthetic-tone musical instrument. 1,705,395; Mar. 12.
- Cabot, Sewall, Brookline, Mass. Radio receiving system. 1,725,615; Aug. 20.
- Cacharellis, Otho J., Casper, Wyo. Doll. Des. 77,810; Feb. 26.
- Cackley, Edward. (See Wirt, Zebulon, assignor.)
- Cactus Rubber Company of America. (See Wichmann, John C., assignor.)
- Cadieux, Joseph O., Meriden, assignor to B. A. Fones, Bridgeport, Conn., receiver for Connecticut Telephone & Electric Company, Inc. Telephone. 1,717,091; June 11.
- Cadman, Addi B., Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill. Steering device. 1,701,296; Feb. 5.
- Cadman, Addi B., Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill. Trailer-control mechanism. 1,720,882; July 16.
- Cadoret, Louis A., Pawtucket, R. I. Shuttle threader and thread tensioner. 1,724,790; Aug. 13.
- Cadwallader, George R., Lakewood, Ohio. Tire-casing spreader. 1,713,511; May 21.



- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Electrically-heated furnace. 1,710,763; Apr. 30.
- Cadwell, Edwin B., New York, N. Y. and A. B. Webb, Watertown, Wis., assignors to The Rightway Corporation. Auxiliary traction and load-carrying unit for motor vehicles. 1,731,814; Oct. 15.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Controlling the vulcanization of rubber and similar materials 1,698,712; Jan. 15.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Controlling the vulcanization of rubber and similar materials and products obtained thereby. 1,698,713; Jan. 15.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Controlling the vulcanization of rubber and similar materials. 1,698,714; Jan. 15.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Controlling the vulcanization of rubber and similar materials and products obtained thereby. 1,698,715; Jan. 15.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Compounding and vulcanizing rubber and products obtained therefrom. 1,701,946; Feb. 12.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Chemical products and making them. 1,724,180; Aug. 13.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Substituted dithiocarbamates and making same. 1,726,646; Sept. 3.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Substituted dithiocarbamates and making same. 1,726,647; Sept. 3.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Substituted dithiocarbamates and making same. 1,726,648; Sept. 3.
- Cadwell, Sidney M., Leonia, N. J., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Phenyl methylene bis diethyl dithiocarbamate and making the same. 1,736,429; Nov. 19.
- Cady, E. L., Engineering Company, The. (See Cady, Ernest L., assignor.)
- Cady, Edwin T., Newton, Mass. Making insoles. 1,727,327; Sept. 10.
- Cady, Ernest L., assignor to The E. L. Cady Engineering Company, Hartford, Conn. Doffing roll for carding machines. 1,727,393; Sept. 10.
- Cady, John A., assignor of one-half to H. A. Gilman, Los Angeles, and one-half to C. A. Fritz, Alhambra, Calif. Pipe slip. 1,719,533; July 2.
- Cady, Mabel H., Detroit, Mich. Folding shelf. 1,727,048; Sept. 3.
- Cady, Sherman W. (See Johnston, E. A., and Cady.)
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Maintaining electric currents of constant frequency. Re17,245; Mar. 26.
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Maintaining electric currents of constant frequency. Re17,246; Mar. 26.
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Maintaining electric currents of constant frequency. Re17,247; Mar. 26.
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Piezo-electric resonator. Re17,355; July 2.
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Piezo-electric resonator. Re17,356; July 2.
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Piezo-electric resonator. Re17,357; July 2.
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Piezo-electric resonator. Re17,358; July 2.
- Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Piezo-electric resonator. Re17,359; July 2.
- Caffery, John M., Franklin, La. Cane-piling machine. 1,718,852; June 25.
- Cahen, Herman S., Cleveland Heights, Ohio. Indicating device. 1,711,632; May 7.
- Cahen, Joseph, et al. (See Athey, Richard H., assignor.)
- Cahill, Clarence N., Harrisburg, Pa. Shoe carton. 1,700,432; Jan. 29.
- Cahill, Elizabeth, Atlantic City, N. J. Hairdressing appliance. 1,708,467; Apr. 9.
- Cahill, Harold D., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,717,143; June 11.
- Caille Brothers Company. (See Smith, Theodore L., assignor.)
- Caille Brothers Company, The. (See Smith, Theodore L., assignor.)
- Cailloux, John F., Oklahoma City, Okla. Fishing tool. 1,710,294; Apr. 23.
- Cain, David J., Cascade, Idaho. Folding chair. 1,729,205; Sept. 24.
- Cain, James W. (See Bashara, S. F., and Cain.)
- Cain, John R. (See Wehr, E. R., Mahlie, and Cain.)
- Cain, John R., Washington, D. C., assignor to The Richardson Company, Lockland, Ohio. Making metal foils. 1,698,472; Jan. 8.
- Cain, John J., Bayonne, N. J. Handhole cover. 1,730,721; Oct. 8.
- Cain, Lloyd H. C., Santa Ana, Calif. Rope hitch. 1,724,791; Aug. 13.
- Cain, Taylor M., Ogden, Utah. Automatic crossing block for railways. 1,702,150; Feb. 12.
- Caine, Charles H. (See Ringwald, Clarence, assignor.)
- Calabi, Giacomo A. (See Furmanik, Giuseppe, assignor.)
- Calabrese, Vincent, Los Angeles, Calif., assignor to J. Cuccio. Wire-winding machine. 1,704,166; Mar. 5.
- Calaveras Iron and Steel Company et al. (See Read, Frederick J., assignor.)
- Calco Chemical Company. (See Crossley, Moses L., assignor.)
- Calco Chemical Company, The. (See Crossley, M. L., and Simpson, assignors.)
- Calcott, Walter C. (See Schleicher, P. E., and Calcott.)
- Calcott, Walter C., assignor to Schleicher, Inc., Gary, Ind. Electric heater. 1,719,872; July 9.
- Calcott, William S., Penns Grove, and A. E. Parmelee, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of tetraalkyl lead and compositions containing the same. 1,724,640; Aug. 13.
- Calcott, William S., W. A. Douglass, Penns Grove, N. J., and O. M. Hayden, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Retarding deterioration of rubber and product. 1,725,564; Aug. 20.
- Caldon, Guy E., and E. J. Martel, Laconia, N. H. Game. 1,714,546; May 28.
- Caldwell, Alice L. M., New York, N. Y. Lamp shade and the like. 1,727,859; Sept. 10.
- Caldwell, Charles W., New York, N. Y. Combination smoking table, fern and lamp stand. Des. 78,005; Mar. 19.
- Caldwell, Charles W., Lawrence, N. Y. Slab for tables and the like. 1,708,080; Apr. 9.
- Caldwell, Earl L., and F. Farris, Centralia, Wash. Toy catapult. 1,699,092; Jan. 15.
- Caldwell, Edw. F., & Company. (See Klehr, William, assignor.)
- Caldwell, Edwin, New York, N. Y. Smoking implement. 1,706,398; Mar. 26.
- Caldwell, Edwin, New York, N. Y. Machine for perforating cigarette wrappers and the like. 1,711,487; May 7.
- Caldwell, Edwin, New York, N. Y. Cigar and cigarette support. 1,727,582; Sept. 10.
- Caldwell, George A., Milton, and J. C. Birchall, Reading, Mass.; said Birchall assignor to said Caldwell. Sound-locating apparatus. 1,738,094; Dec. 3.
- Caldwell, H. W., & Son Company. (See Erisman, John L., assignor.)
- Caldwell, Henry C., Buffalo, N. Y. Heat generator. 1,702,642; Feb. 19.
- Caldwell, James J., Chickamauga, Ga., assignor to Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Balling machine. 1,735,036; Nov. 12.
- Caldwell, James J., Chickamauga, Ga., and D. Gravel, assignors to Standard Coosa Thatcher Company, Chattanooga, Tenn. Singeing and warping machine. 1,722,895; July 30.
- Caldwell, James R., Bay Springs, Miss. Glare protector. 1,717,185; June 11.
- Caldwell, Jonathan E., Denver, Colo. Airplane. 1,730,758; Oct. 8.
- Caldwell, Joseph B. (See Scarborough, J. A., Caldwell, and Coursey.)
- Caldwell, Lafayette H., Chattanooga, Tenn. Insert for castings. 1,719,739; July 2.
- Caldwell, Marion J., Eldorado, Kans. Safety switch and fuse box. 1,725,441; Aug. 20.
- Caldwell, Torrence V., De Bois, Pa. Valve grinding machine. 1,703,921; Mar. 5.
- Caldwell, Venus, Havana, Ill. Marcel hair waver. 1,708,660; Apr. 9.
- Caldwell, Walter E. (See Clarkson, B. S., and Caldwell.)
- Calhoun, George H., Mansfield, Ohio. Switch box. 1,739,124; Dec. 10.
- Calhoun, Tracy J., assignor to The Oil Conservation Engineering Company, Cleveland, Ohio. Flame arrester. 1,735,261; Nov. 12.
- Calhoun, Washington L., Tarrytown, Ga. Fishing machine. 1,717,835; June 18.
- California Cedar Products Company. (See Chichester, O. F., and Sylva, assignors.)
- California Cedar Products Company. (See Makowski, John F., assignor.)
- California Corrugated Culvert Co. (See Hand, Augustin J., assignor.)
- California Corrugated Culvert Company. (See Thorsby, Karl J., assignor.)
- California Cotton Mills Company. (See Mitchell, Allister S., assignor.)
- California Cyanide Company. (See Jackson, Ralph M., assignor.)
- California Fruit Growers Exchange. (See Patteson, Mark B., assignor.)
- California Packing Corporation. (See Anker-Holth, Severin C., assignor.)
- California Packing Corporation. (See Olivarius, Holger De F., assignor.)
- California Packing Corporation. (See Prowse, Francis J., assignor.)



- California Packing Corporation. (See Prowse, F. J., Robinson, Hall, and Fleming, assignors.)
- California Peach & Fig Growers Association. (See Forrest, Thomas W. W., assignor.)
- California Petroleum Corporation. (See Cox, E. R., and Cole, assignors.)
- California Sanitary Canning Co. (See Crane, Frank B., assignor.)
- California Spray-Chemical Company. (See Knight, Hugh, assignor.)
- California Spray-Chemical Company. (See Volck, William H., assignor.)
- Calissi, Paul C., Philadelphia, Pa. Combined light reflector and frame for wall cabinets and the like. 1,708,468; Apr. 9.
- Calkins, Bert. (See Stephens, Albert E., assignor.)
- Calkins, Edgar G., Morland, Kans. Clutch for seeding machines and the like. 1,721,507; July 23.
- Calkins, Seward H., Audubon, N. J., assignor to The Traitel Marble Company, Long Island City, N. Y. Guide and pattern strip. Re17,238; Mar. 19.
- Calkins, Seward H., Flushing, N. Y., assignor to The Traitel Marble Company. Laying concrete floorings. 1,725,731; Aug. 20.
- Call, Joseph C., Bancroft, Idaho. Automatic fuse protector. 1,738,867; Dec. 10.
- Callaert, Theodiel. (See Schilling, A., Sachse, Liamin, and Callaert.)
- Callaghan, John B., and W. H. Monaghan, Pittsburgh, Pa. Ladder attachment for fire hose. 1,726,649; Sept. 3.
- Callahan, John A., Buffalo, N. Y., assignor to Martin-Parry Corporation, York, Pa. Vehicle body. 1,714,845; May 28.
- Callahan, John B., Jacksonville, Fla. Exterminating water hyacinth. 1,713,739; May 21.
- Callahan, John T., assignor to Archer Rubber Company, Milford, Mass. Slipper and making same. 1,724,450; Aug. 13.
- Callahan, Michael J., New York, N. Y. Locking mechanism for closures. 1,709,459; Apr. 16.
- Callahan, Raymond B. (See Burger, W. A., and Callahan.)
- Callahan, Samuel J. (See Margua, E. C., and Callahan.)
- Callan, John G., Cambridge, assignor to Eastern Manufacturing Company, Boston, Mass. Method and apparatus for steering belts. 1,714,846; May 28.
- Callane, Waldo E., Lebanon, Ind. Fence protector. 1,704,167; Mar. 5.
- Callant, John A., Spencer, S. Dak. Demountable rim. 1,730,803; Oct. 8.
- Callard, Robert P., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Tank-furnace-heating means. 1,718,331; June 25.
- Callas, Claude. (See Wallace, F. H., and Compton, assignor.)
- Callebaut, Charles, and J. De Blicquy, Leeds, England. Apparatus for dyeing of knitted and woven fabrics. 1,702,106; Feb. 12.
- Callen, Robert E., Greenville, Pa. Roofer's mop handle. 1,703,292; Feb. 26.
- Callender, Frank S., Detroit, Mich. Making battery boxes. 1,721,293; July 16.
- Callender, Hiram C., assignor to Ribbon Miter Machine Company, Indianapolis, Ind. Building glass or the like. Des. 80,163; Dec. 24.
- Callier, Raymond E., New York, N. Y. Conduit for dust-collecting systems. 1,710,145; Apr. 23.
- Callison, Edgar A., Oakland, Calif. Hand-propelled toy vehicle. Des. 77,531; Jan. 22.
- Callies, Carl L., Wetaskiwin, Alberta, Canada. Grain cleaner. 1,730,556; Oct. 8.
- Callis, Conral C. (See Kraus, C. A., and Callis.)
- Callison, Abner F., Buffalo Creek, Colo. Method and apparatus for transferring freight. 1,737,994; Dec. 3.
- Callow, Russell. (See Briese, A., and Callow.)
- Calloway, Russell T., assignor to Electrical Engineers Equipment Co., Chicago, Ill. Disconnecting type of cable end bell. 1,717,368; June 18.
- Callsen, Albert, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,699,777; Jan. 22.
- Callsen, Albert, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Meter structure. 1,709,773; Apr. 16.
- Callsen, Jürgen, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Compound from trichlorobutylalcohol and 4-dimethylamino-1-phenyl-2,3-dimethyl-5-pyrazolone. 1,703,922; Mar. 5.
- Callsen, Jürgen, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Production of halogenated alcohols. 1,725,054; Aug. 20.
- Calo, Domenic, St. Albans, Vt. Attachment for shoes. 1,733,860; Oct. 29.
- Calorol Burner Corporation. (See Binkley, Martin J., assignor.)
- Calsodent Company. (See McCall, John O., assignor.)
- Calumet Baking Powder Company. (See Carney, Cleveland P., assignor.)
- Calumet Coal Company. (See Wolfe, John E., assignor.)
- Calumet Steel Company. (See Young, Harry M., assignor.)
- Calvert, George H., jr. (See Green, Edgar B., assignor.)
- Calvert, James W., Baltimore, Md. Game device. 1,700,154; Jan. 29.
- Calvert, John G., Inglewood, Calif. Gas burner. 1,715,989; June 4.
- Calvert, Robert. (See Van Schaack, B. H., jr., and Calvert.)
- Calvert, Robert, Lompoc, Calif. Revivification of used kieselguhr. 1,717,661; June 18.
- Calvert, Robert, Wilmette, assignor to Van Schaak Brog. Chemical Works, Inc., Chicago, Ill. Pyroxylin composition. 1,702,151; Feb. 12.
- Calvert, Sebastian L. (See Chancellor, V. F., and Calvert.)
- Calvert, William C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Gas-cell fabric. 1,739,479; Dec. 10.
- Calvet, Clara M., et al. (See Mason, William B., assignor.)
- Calvet, George H., et al. (See Mason, William B., assignor.)
- Calvin, Samuel E., Terminal Island, Calif. Dehydrating attachment for flash testers. 1,714,765; May 28.
- Calvo, Frank, Waterbury, Conn. Callus protector and arch support. 1,718,853; June 25.
- Camagni, Mario, Paterson, N. J. Shuttle. 1,709,113; Apr. 16.
- Camagni, Mario, Paterson, N. J. Tension lever. 1,709,114; Apr. 16.
- Camagni, Mario, Paterson, N. J. Tension lever. 1,709,115; Apr. 16.
- Cambern Corporation. (See Cambern, Josef R., assignor.)
- Cambern, Josef R., assignor to Cambern Corporation, Spokane, Wash. Dutch shop. Des. 79,323; Sept. 3.
- Cambridge Instrument Company. (See Hindle, Charles F., assignor.)
- Cambridge Rubber Company. (See Morin, Louis H., assignor.)
- Camden, Andrew B., assignor of one-half to P. Neuman, Durant, Okla. Insect-destroying machine. 1,741,359; Dec. 31.
- Camden Safe Deposit & Trust Co., executor. (See Ames, Elmer U.)
- Camel Company. (See Edahl, Knute, assignor.)
- Camel Company. (See Eklind, C. E., and Darrow.)
- Camel Company. (See Eklind, C. E., and Darrow, assignors.)
- Camel Company. (See Eklind, C. E. and Tobin, assignors.)
- Camel Company. (See Heinen, F. C., and Tobin, assignors.)
- Camel Company. (See Lute, C., and Tobin, assignors.)
- Camel Company. (See Nystrom, Karl F., assignor.)
- Camel Company. (See Tobin, Kenneth J., assignor.)
- Camel Company. (See Tobin, K. J., and Darrow, assignors.)
- Camel Co. (See Tobin, K. J., and Wasberg, assignors.)
- Cameo Record Corporation. (See Smith, Annesley D., assignor.)
- Cameron, Allan A., Chicago, Ill. Automobile radiator-cap ornament. Des. 77,389; Jan. 8.
- Cameron Can Machinery Company. (See Cameron, William, assignor.)
- Cameron, Carl F., assignor to The Kawneer Company, Niles, Mich. Store-front construction. 1,740,224; Dec. 17.
- Cameron, Celina C., Philadelphia, Pa. Woman's garment. 1,709,337; Apr. 16.
- Cameron, Charles L., Dayton, Ohio. Switch for electrical appliances. 1,703,988; Mar. 5.
- Cameron, Daniel, San Francisco, Calif. Vending machine. 1,720,588; July 9.
- Cameron, Daniel W., assignor of one-fourth to J. J. Boyer, Burkett, Nebr. Bed pad. 1,701,662; Feb. 12.
- Cameron, Eddie C., Hondo, Tex. Cotton feeder. 1,716,112; June 4.
- Cameron, Hugh M., Woodhaven, assignor to John Chatillon & Sons, New York, N. Y. Scale. 1,699,686; Jan. 22.
- Cameron, James A., Winnipeg, Canada. Multiple manipulating suspension arm. 1,736,250; Nov. 19.
- Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding flexible material. 1,707,047; Mar. 26.
- Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Winding machine. 1,719,830; July 9.
- Cameron, James A., Brooklyn, N. Y., and R. McC. Johnstone, Roselle Park, N. J., assignors to Cameron Machine Company, Brooklyn, N. Y. Slitting machine. 1,738,353; Dec. 3.
- Cameron, Jarrett L., Orangefield, Tex., assignor of one-half to Evangeline Iron Works, Ltd., Vinton, La. Well fishing tool. 1,728,781; Sept. 17.
- Cameron, John M. (See Thronton, W. C., and Cameron.)
- Cameron Machine Company. (See Cameron, James A., assignor.)
- Cameron Machine Company. (See Cameron, J. A., and Johnstone, assignors.)
- Cameron Machine Company. (See Johnstone, Robert M., assignor.)
- Cameron, Wallace J. (See Shields, T. C., and Cameron.)
- Cameron, Will J., Chicago, Ill. Head lamp. 1,705,465; Mar. 19.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. Die-press mechanism. 1,706,599; Mar. 26.
- Cameron, William, assignor to Cameron Can Machinery Company, Chicago, Ill. Can-body-forming machine. 1,722,556; July 30.



- Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Cap-feeding mechanism. 1,737,569; Dec. 3.
- Cameron, Wm., & Co. (See Johnston, William D., assignor.)
- Cameron, William M., New York, N. Y., and G. Schneider, Mountain Lakes, N. J., assignors to Celanese Corporation of America. Manufacture of compositions. 1,713,740; May 21.
- Camerota, Louis A., Burlington, N. J., assignor to W. Wood, Philadelphia, Pa. Sand-reconditioning machine for foundry art. 1,737,144; Nov. 26.
- Camfield, Earthen H., Florence, Colo. Filter for tanks. 1,706,772; Mar. 26.
- Camfield, Russell W., Berkeley, assignor to E. T. Cunningham, San Francisco, Calif. Radio detector system. 1,704,497; Mar. 5.
- Camfield, William H., Newark, N. J. Door. 1,740,572; Dec. 24.
- Camilli, Guglielmo. (See Boyajian, A., and Camilli.)
- Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,717,347; June 11.
- Camilli, Guglielmo, and A. Boyajian, Pittsfield, Mass., assignors to General Electric Company. Electric measuring apparatus. 1,701,358; Feb. 5.
- Caminada, Eugenio. (See Tammeo, Aldo, assignor.)
- Caminetti, Anthony, jr., San Francisco, Calif. Electric-controlled spotlight. 1,711,446; Apr. 30.
- Caminetti, Anthony, jr., San Francisco, Calif. Spotlight. 1,712,690; May 14.
- Caminetti, Anthony, jr., San Francisco, assignor, by mesne assignments, to C. N. Newman, Stockton, Calif. Spotlight. 1,737,914; Dec. 3.
- Caminez, Harold, Dayton, Ohio, assignor to Fairchild-Caminez Engine Corporation, New York, N. Y. Cam construction for cam engines. 1,711,260; Apr. 30.
- Caminez, Harold, Farmingdale, assignor to Fairchild-Caminez Engine Corporation, New York, N. Y. Internal-combustion engine. 1,714,847; May 28.
- Caminez, Harold, Garden City, assignor to Fairchild-Caminez Engine Corporation, New York, N. Y. Aircraft engine mount. 1,723,012; Aug. 6.
- Caminez, Harold, Garden City, assignor to Fairchild-Caminez Engine Corporation, New York, N. Y. Fuel pump. 1,734,155; Nov. 5.
- Cammack, Clifton C., assignor, by mesne assignments, to Automatic Washer Company, Newton, Iowa. Wringer. 1,728,722; Sept. 17.
- Cammack, Robert W., New York, N. Y. Dental floss holder. 1,723,842; Aug. 6.
- Cammann, Louis de L., Brandon, Vt. Auxiliary lamp. 1,738,985; Dec. 10.
- Cammarata, Frank. (See Bowman, Count R., assignor.)
- Cammer, Charles R., Syracuse, N. Y. Hood-hinge protector. 1,732,964; Oct. 22.
- Camp, C. F., Company. (See Powers, F., and Tolland, assignor.)
- Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism. 1,723,722; Aug. 6.
- Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Brake mechanism for railway cars. 1,741,148; Dec. 31.
- Camp, Curtis B., trustee. (See Bracke, Robert F., assignor.)
- Camp, Curtis B., trustee. (See Chandler, Milford G., assignor.)
- Camp, Curtis B., trustee. (See Stokes, Charles L., assignor.)
- Camp, Henry P., Alton, assignor to Western Cartridge Company, East Alton, Ill. Target trap. 1,700,880; Feb. 5.
- Campa, Abelardo F., assignor of one-half to A. Meehan, New York, N. Y. Waterproofing paper and the like. 1,731,969; Oct. 15.
- Campanella, Joseph, New York, N. Y. Device for making lather. 1,738,691; Dec. 10.
- Campbell, A. B., et al. (See Baker, George, assignor.)
- Campbell, Albert W. (See Eddy, E. D., and Campbell.)
- Campbell, Alexander A., West Springfield, Mass. Radiator valve. 1,741,402; Dec. 31.
- Campbell, Alphonso S., Winchester, assignor to A. S. Campbell Company, East Boston, Mass. Body construction for vehicles. 1,706,106; Mar. 19.
- Campbell, Alphonso S., Winchester, assignor to A. S. Campbell Company, East Boston, Mass. Door and cushion therefor. 1,712,472; May 7.
- Campbell, Alphonso S., Winchester, assignor to A. S. Campbell Company, East Boston, Mass. Curtain window frame. 1,723,466; Aug. 6.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dumping door for railway cars and the like. 1,705,804; Mar. 19.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car and door mechanism therefor. 1,705,805; Mar. 19.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car-door-operating mechanism. 1,705,806; Mar. 19.
- Campbell, Arthur T., and M. C. Heinemann, assignors to Pacific Spring Hinge Company, Seattle, Wash. Automatic door-closing device. 1,731,561; Oct. 15.
- Campbell, A. S., Company. (See Campbell, Alphonso S., assignor.)
- Campbell, Calvin, assignor to The Colorado Fuel and Iron Company, Denver, Colo. Wall and ceiling board splice. 1,723,500; Aug. 6.
- Campbell, C. H. (See Carpenter, William A., assignor.)
- Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Vacuum brake. 1,698,359; Jan. 8.
- Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Electropneumatic brake valve. 1,702,152; Feb. 12.
- Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Emergency valve. 1,715,220; May 28.
- Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Vent valve for air brakes. 1,725,848; Aug. 27.
- Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Signal system. 1,733,149; Oct. 29.
- Campbell, Charles F. (See Lange, E. C., and Nicholson, assignors.)
- Campbell, Charles H., Brookline, assignor to said C. H. and H. B. Campbell, Cambridge, Mass., copartners doing business as Colonial Cap Co. Pane retainer. 1,700,727; Jan. 29.
- Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Reclaimed rubber. 1,729,706; Oct. 1.
- Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Reclaimed rubber. 1,729,707; Oct. 1.
- Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Rubber composition. 1,729,708; Oct. 1.
- Campbell, Charles H., Pittsburgh, Pa., assignor to American Glue Company, Boston, Mass. Rubber composition. 1,729,709; Oct. 1.
- Campbell, Charles S., and A. E. Hunt, New Haven, Conn., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Record card or like member for indexes or files. 1,741,283; Dec. 31.
- Campbell, Chester C., West Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Elevator-car inclosure. 1,700,920; Feb. 5.
- Campbell, Cornelius, Edmonton, Alberta, Canada. Direction-signaling device for vehicles. 1,736,485; Nov. 19.
- Campbell, Donald F., and G. E. Taylor, London, England. Automatic regulation of the power factor in electric furnaces. 1,698,581; Jan. 8.
- Campbell, Donald J., Muskegon Heights, Mich. Molding. 1,717,914; June 18.
- Campbell, Donald J., Muskegon, Mich. Aluminum-inlaid piston. 1,717,915; June 18.
- Campbell, Donald J., Muskegon, Mich. Mold and method of casting aluminum. 1,717,916; June 18.
- Campbell, Donald J., Muskegon Heights, Mich. Control for jarring molding machines. 1,740,766; Dec. 24.
- Campbell, E. A. (See Wagner, Henry, assignor.)
- Campbell Engineering Company. (See Campbell, Grant, assignor.)
- Campbell, Frank R., assignor, by mesne assignments, to National Malleable and Steel Castings Company, Cleveland, Ohio. Journal-box mechanism. 1,703,293; Feb. 26.
- Campbell, Furman N., New Haven, and J. Myatt, East Haven, Conn., assignors to B. L. Gregg, Forest Hill Gardens, N. Y. Severing glass or the like. 1,719,588; July 2.
- Campbell, Furman N., New Haven, and J. Myatt, East Haven, Conn., assignors to B. L. Gregg, Forest Hill Gardens, N. Y. Apparatus for severing glass or the like. 1,720,883; July 16.
- Campbell, Furman N., New Haven, and J. Myatt, East Haven, assignors to B. L. Gregg, New Haven, Conn. Glass cutting. 1,738,228; Dec. 3.
- Campbell, Furman N., New Haven, and J. Myatt, East Haven, assignors to B. L. Gregg, Forest Hill Gardens, Conn. Glass cutting. 1,738,229; Dec. 3.
- Campbell, George A., Montclair, N. J., assignor to American Telephone and Telegraph Company. Electromagnetic wave signaling system. 1,738,522; Dec. 10.
- Campbell, George W., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-writer-machine casing. 1,712,648; May 14.
- Campbell, George W., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-writing machine. 1,713,594; May 21.
- Campbell, George W., Brooklyn, assignor to National Biscuit Company, New York, N. Y. Article-handling machine. 1,716,302; June 4.
- Campbell, Grant, assignor to Campbell Engineering Company, Short Hills, N. J. Orifice element and system and apparatus utilizing the same. 1,697,341; Jan. 1.
- Campbell, Grant, assignor to Campbell Engineering Company, Short Hills, N. J. Liquid-level or other fluid-flow regulator. 1,697,342; Jan. 1.
- Campbell, Grant, assignor to Campbell Engineering Company, Short Hills, N. J. Liquid-relief apparatus and method. 1,697,343; Jan. 1.
- Campbell, Grant, assignor to Campbell Engineering Company, Short Hills, N. J. Measurement and regulation of flow of steam or other fluid. 1,697,344; Jan. 1.
- Campbell, Grant, Short Hills, assignor to Campbell Engineering Company, Newark, N. J. Pressure regulation. 1,729,819; Oct. 1.



- Campbell, Grant, Short Hills, assignor to Campbell Engineering Company, Newark, N. J. Pressure regulation. 1,729,820; Oct. 1.
- Campbell, Grover S. (See Campbell, William W., assignor.)
- Campbell, Harold B. (See Campbell, Charles H., assignor.)
- Campbell, Harry A. F., Philadelphia, Pa. Locomotive crank pin. 1,718,110; June 18.
- Campbell, John, Glasgow, Scotland. Shock absorber for vehicles. 1,725,055; Aug. 20.
- Campbell, John A. (See Altimari, G., and Campbell.)
- Campbell, John B., Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio. Ornamentation process and apparatus therefor. 1,726,055; Aug. 27.
- Campbell, John B., Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio. Ornamentation process and apparatus therefor. 1,726,056; Aug. 27.
- Campbell, Julian A., Long Beach, Calif. Absorption tower. 1,703,571; Feb. 26.
- Campbell, Julian A., Long Beach, Calif. Absorption. 1,736,070; Nov. 19.
- Campbell, Lawrence S., Kansas City, Mo., assignor to J. Grant, Los Angeles, Calif. Rotary expansive tool. 1,720,942; July 16.
- Campbell, Leon W., assignor to The Murray Company, Dallas, Tex. Press-box-door compensator. 1,741,284; Dec. 31.
- Campbell, Leslie E., and L. C. Brown, San Antonio, Tex. Ear curette. 1,737,106; Nov. 26.
- Campbell, Levin H., jr., New York, N. Y., and H. A. Knox, Davenport, Iowa, assignors to Secretary of War of the United States of America. Vehicle. 1,738,523; Dec. 10.
- Campbell, Neil L., assignor to Mannington Mills, Inc., Salem, N. J. Making mottled floor covering. 1,728,101; Sept. 10.
- Campbell, Percy A., East Cleveland, Ohio, assignor to General Electric Company. Incandescent-lamp mount. 1,740,391; Dec. 17.
- Campbell, Robert G., New York Mills, N. Y. Spun cellulose and viscose products. 1,732,831; Oct. 22.
- Campbell, Robert G., New York Mills, N. Y. Treating cellulose and viscose products. 1,732,832; Oct. 22.
- Campbell, Robert J., jr. (See Gartner, Henry A., assignor.)
- Campbell, Robert K., Seattle, Wash. Stern motor. 1,725,252; Aug. 20.
- Campbell, Roy, Montreal, Quebec, Canada. Visible-card index. 1,719,355; July 2.
- Campbell, Samuel F., Fryor, Okla. Wrench. 1,730,722; Oct. 8.
- Campbell, Samuel J., assignor to Hudson Sharp Machine Company, Green Bay, Wis. Cutting means. 1,730,449; Oct. 8.
- Campbell, Samuel J., assignor to Hudson-Sharp Machine Company, Green Bay, Wis. Article-folding machine. 1,731,292; Oct. 15.
- Campbell, Sterling H., assignor to Western Railway Equipment Company, St. Louis, Mo. Retaining-valve bracket. 1,700,120; Jan. 29.
- Campbell, Sterling H., assignor to Western Railway Equipment Company, St. Louis, Mo. Retaining-valve fastening. 1,711,138; Apr. 30.
- Campbell, Stewart L., Berkeley, and J. J. Santiago, assignors to J. Grant, Los Angeles, Calif. Expansive reamer. 1,720,993; July 16.
- Campbell, Stewart L., Berkeley, assignor to John Grant, Los Angeles, Calif. Rotary changeable cutter reamer. 1,739,823; Dec. 17.
- Campbell Soup Company. (See Bartlett, George M., assignor.)
- Campbell, Thomas P., et al. (See Sherrick, Samuel T., assignor.)
- Campbell, Wallace H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tube-deflating machine. 1,735,673; Nov. 12.
- Campbell, Walter, Salem, Va. Sound-wave catcher. 1,708,257; Apr. 9.
- Campbell, Webb L. (See Johnson, D. G., and Campbell.)
- Campbell, Wendell B., assignor to The Perkins-Campbell Company, Cincinnati, Ohio. Making leather articles. Re17,387; July 30.
- Campbell, Wendell B., assignor to The Perkins-Campbell Company, Cincinnati, Ohio. Making shoes. 1,710,043; Apr. 23.
- Campbell, Willard W., et al. (See Hixson, Charles T., assignor.)
- Campbell, William, Alliance, Ohio. Exercising machine. 1,720,117; July 9.
- Campbell, William B., Seattle, assignor to Rex Manufacturing Company, King County, Wash. Rotary pump. 1,703,294; Feb. 26.
- Campbell, William H., Detroit, Mich. Gas preheater. 1,718,330; June 25.
- Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. Re17,475; Oct. 29.
- Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,698,874; Jan. 15.
- Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,698,875; Jan. 15.
- Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,707,654; Apr. 2.
- Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,716,416; June 11.
- Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,720,205; July 9.
- Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,739,490; Dec. 10.
- Campbell, William S., Newark, Del. Shock absorber or stabilizer for motor-driven vehicles. 1,727,746; Sept. 10.
- Campbell, William W., et al., trustees. (See Harrison, Herbert C.)
- Campbell, William W., San Diego, Calif., assignor of one-half to G. S. Campbell, Denton, Tex. Dispensing and measuring device. 1,710,295; Apr. 23.
- Camper, S. D. (See Cook, Frank L., assignor.)
- Campi, Gustavo C., New York, N. Y. Awning fixture. 1,713,993; May 21.
- Campion, Edward W., and A. H. Dierker, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Method of and apparatus for treating molding sand. 1,700,713; Jan. 29.
- Campo, James A., Woodridge, N. J. Table lamp. 1,721,176; July 16.
- Campodonico, John J., Stockton, Calif. Traction wheel. 1,721,769; July 23.
- Canada, George B. (See Block, I. D., and Canada.)
- Canada Gypsum and Alabastine Company. (See Thomson, George M., assignor.)
- Canada Machinery Corporation Limited. (See Marshall, James J., assignor.)
- Canaday, L. Moore. (See Spencer, C. R., and Canaday.)
- Canaday, Orpha P., Fort Wayne, Ind. Hanger and illuminating means for mail sacks. 1,725,565; Aug. 20.
- Canadian Car & Foundry Company Limited. (See Viberg, E. R., and Linderblad, assignors.)
- Canadian Electro Products Company. (See Matheson, Howard W., assignor.)
- Canadian Electro Products Company. (See Matheson, H. W., and Nieuwland, assignors.)
- Canadian Electro Products Company. (See Matheson, H. W., and Skirrow, assignors.)
- Canadian Electro Products Company. (See Melamid, Meilach, assignor.)
- Canadian Electro Products Company. (See Morrison, George O., assignor.)
- Canadian Electro Products Company. (See Nieuwland, Julius A., assignor.)
- Canadian Electro Products Company. (See Reid, H. S., and Maude, assignors.)
- Canadian Electro Products Company. (See Skirrow, F. W., and Morrison, assignors.)
- Canadian Industries Limited. (See Pritchard, D. A., and Hubel, assignors.)
- Candee, Allan H., assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,733,399; Oct. 29.
- Candee, Allan H., and G. O. Richmond, assignors to Gleason Works, Rochester, N. Y. Method of and apparatus for dressing grinding wheels. 1,721,103; July 16.
- Candee, Allan H., and M. H. Johanson, assignors to Gleason Works, Rochester, N. Y. Machine for producing gears. 1,732,632; Oct. 22.
- Candee, Allan H., and M. H. Johanson, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. 1,732,633; Oct. 22.
- Candee, Andrew H. (See Storer, N. W., Candee, and Aspinwall.)
- Candee, L. & Company. (See Patten, Ernest L., assignor.)
- Candee, Will D., Los Angeles, Calif., assignor of one-half to A. K. Smith, Springville, N. Y. Governor. 1,704,242; Mar. 5.
- Candish, William A., and E. H. Schleissers, Montreal, Quebec, Canada. Sound-reproducing machine. 1,733,446; Oct. 20.
- Candler, De Forest W., assignor to E. Holley, Detroit, Mich. Core-making machine. 1,703,708; Feb. 26.
- Cannfield, Audley R., Boone, Iowa. Cement brick and block machine. 1,729,984; Oct. 1.
- Cannfield, Charles G., Yale, Okla. Engine. 1,701,439; Feb. 5.
- Cannfield, Charles H., Syracuse, N. Y. Clothes pounder. 1,720,465; July 9.
- Cannfield, Charles H., Syracuse, N. Y. Washing machine. 1,720,466; July 9.
- Cannfield, Howard S. (See Timms, William B., assignor.)
- Cannice, Chester W., Cincinnati, Ohio. Laundry tag. 1,701,770; Feb. 12.
- Canister Company, The. (See Brisick, Joseph C., assignor.)
- Canitz, Frederick J., jr. (See Pivonski, S., and Canitz.)
- Cannard, William H., Green Bay, Wis. Apparatus for producing crane paper. 1,716,260; June 4.
- Cannard, William H., Green Bay, Wis. Web cutting and feeding mechanism. 1,738,354; Dec. 3.
- Cannella, John, New York, N. Y. Display apparatus. 1,728,746; Sept. 17.
- Cannistra, Giuseppe, Bronx, N. Y. Aircraft. 1,714,416; May 21.
- Cannon, Dominic F., Ford City, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for making sheet glass. 1,704,552; Mar. 5.



- Cannon, Earl. (See Landenberger, H. W., and Cannon.)  
 Cannon, Edson L., Cleveland Heights, assignor to The Warren Refining & Chemical Company, Cleveland, Ohio. Liquid-dispensing receptacle. 1,733,106; Oct. 22.  
 Cannon Electric Development Company. (See Cannon, James H., assignor.)  
 Cannon Engineering Co. (See Brewer, Charles A., assignor.)  
 Cannon, Frank, Rhinecliff, N. Y. Direction-indicating signal. 1,729,371; Sept. 24.  
 Cannon, Frank A., Denver, Colo. Cable support. 1,726,536; Sept. 3.  
 Cannon, Frank J., assignor to Production Meter Company, Chicago, Ill. Signature marker for printing presses. 1,696,999; Jan. 1.  
 Cannon, George C., Louisville, Ky. Electric sign. 1,697,753; Jan. 1.  
 Cannon, Hiram B., Sarnia, Ontario, Canada, assignor to The Carborundum Company, Niagara Falls, N. Y. Furnace. 1,701,834; Feb. 12.  
 Cannon, Hiram B., Sarnia, Ontario, Canada, and J. W. Cannon, Boston, Mass., assignors to The Carborundum Company, Niagara Falls, N. Y. Furnace. 1,701,835; Feb. 12.  
 Cannon, Hiram B., Sarnia, Ontario, Canada, and J. W. Cannon, Boston, Mass., assignors to The Carborundum Company, Niagara Falls, N. Y. Furnace. 1,701,836; Feb. 12.  
 Cannon, Hiram B., Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Fluid heating furnace. 1,701,837; Feb. 12.  
 Cannon, Hiram B., Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Fluid heating furnace. 1,701,838; Feb. 12.  
 Cannon, Hugh H., Los Angeles, Calif. Filtering liquids. 1,710,343; Apr. 23.  
 Cannon, Hugh H., Los Angeles, Calif., assignor to Oliver United Filters, Inc. Tubular filter press. 1,734,325; Nov. 5.  
 Cannon, James H., assignor to Cannon Electric Development Company, Los Angeles, Calif. Toaster. 1,708,258; Apr. 9.  
 Cannon, John W. (See Cannon, Hiram B. and J. W.)  
 Cannon, Joseph, Portage, Wis. Perpetual-care sign. 1,727,463; Sept. 10.  
 Cannon, Kingsley W., and F. G. E. Lange, San Francisco, Calif. Smoker's article. 1,705,898; Mar. 19.  
 Cannon, Phillip D., Philadelphia, Pa., assignor to Johns-Manville Corporation, New York, N. Y. Machine for spinning composite yarns. 1,732,592; Oct. 22.  
 Cannon, Phillip D., Philadelphia, Pa., assignor to Johns-Manville Corporation, New York, N. Y. Production of composite yarns and yarn of said character. 1,732,593; Oct. 22.  
 Cannon, Robert S. (See Daubs, R. C., and Cannon.)  
 Canode, Frederick C., Oak Park, Ill. Recording device. 1,725,976; Aug. 27.  
 Canon, Frank A. (See Jaeger, A. O., and Canon.)  
 Canon, Frank A., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Effluent gas treatment. 1,716,028; June 4.  
 Canon, Frank A., and C. E. Andrews, assignors to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Carrying on catalytic reactions. 1,735,951; Nov. 19.  
 Canoose, John E., New London, Conn. Fuel pump for gas engines. 1,710,044; Apr. 23.  
 Canott, Moody L., Wellman, and J. E. Hall, Eagle Grove, Iowa. Vault latch. 1,708,120; Apr. 9.  
 Cant, David A., Los Angeles, assignor to Regan Forge & Engineering Company, San Pedro, Calif. Well-packing device. 1,723,600; Aug. 6.  
 Cant, David A., Los Angeles, assignor to Regan Forge & Engineering Company, San Pedro, Calif. Casing head for oil wells. 1,727,583; Sept. 10.  
 Cantella, Michele, Roslindale, Mass., assignor to Prince Macaroni Manufacturing Company, Inc., Boston, Mass. Alimentary-paste drier. 1,722,732; July 30.  
 Cantella, Michele, Roslindale, assignor to Prince Macaroni Manufacturing Company Inc., Boston, Mass. Drier. 1,736,305; Nov. 19.  
 Canterbury, Harry H. (See Hilstad, J. R., and Canterbury.)  
 Canterbury, Harry H., et al. (See Hilstad, John R., assignor.)  
 Cantin, Alexander A., Oakland, Calif. Plumed capital. Des. 77,530; Jan. 22.  
 Canto, Antonio, and A. Di Gregorio, Astoria, N. Y. Article of furniture. 1,716,207; June 4.  
 Canton, Allen A., and H. Becher, New York, N. Y. Multiple attachment plug. 1,734,073; Nov. 5.  
 Canton Clothes Dryer Company, The. (See Shanks, John S., assignor.)  
 Canton Forge & Axle Company. (See Sampson, Norman E., assignor.)  
 Canton Foundry & Machine Company, The. (See Wesp, Edward J., assignor.)  
 Canton Stamping & Enameling Company, The. (See Bebb, Harry T., assignor.)  
 Cantor, Max. (See Kirchhoff, R., and Cantor.)  
 Cantor, Simon, New York, N. Y. Torchère. Des. 77,637; Feb. 5.  
 Cantrall, Elmer F., Barnsdale, Okla., assignor, by mesne assignments, to Empire Oil and Refining Company, Dover, Del. Method of and apparatus for separating ground water from petroleum. 1,732,222; Oct. 22.  
 Cantrell, Frank J., San Francisco, Calif. Pin or similar article. Des. 80,164; Dec. 24.  
 Cantú, Jesus, Monterey, Mexico, assignor of one-third to J. Martinez, Laredo, Tex., and one-third to R. Lopez, Monterey, Mexico. Electric sign 1,739,577; Dec. 17.  
 Canvas Products Corporation. (See Goodrick, Perry C., assignor.)  
 Caparelli, Peter. (See Shaffer, J. H., and Caparelli.)  
 Capel, John J., Scranton, Iowa. Plow shield. 1,738,230; Dec. 3.  
 Capen, George H., Canton, Mass. Toggle. 1,729,153; Sept. 24.  
 Capes, Delbert R., Pontiac, Ill. Seat spring. 1,733,051; Oct. 22.  
 Capezio, Salvatore, East Paterson, N. J. Toe and ballet slipper. 1,704,281; Mar. 5.  
 Capital Lift and Mfg. Co., The. (See Edmister, William R., assignor.)  
 Capito, Pete, and V. DeFranco, Weirton, W. Va. Reciprocal cradle structure. 1,733,115; Oct. 29.  
 Capitol Lighter Company, The. (See Long, August, assignor.)  
 Caplan, Eva, Philadelphia, Pa. Lady's cap. 1,721,332; July 16.  
 Caplan, Israel, Des Moines, Iowa. Signal device. 1,735,562; Nov. 12.  
 Caplan, Solomon, Brooklyn, assignor to Combustion Utilities Corporation, New York, N. Y. Purification of tar-acid-bearing oils. 1,710,764; Apr. 30.  
 Cappa, Giulio C., Turin, Italy. Stabilizing linkage for front-wheel-braked motor cars. 1,719,390; July 2.  
 Cappabianco, Luigi, Bridgeport, Conn. Amusement device. 1,738,355; Dec. 3.  
 Cappelletti, Luis, Omaha, Nebr. Lumber-stabilizing device. 1,741,010; Dec. 24.  
 Capper, Robert W., Garfield Heights, Ohio, assignor, by mesne assignments, to Industrial Brownhoist Engineering Corporation. Car-dumping apparatus. 1,736,520; Nov. 19.  
 Capps, Frank L., Milford, and J. O. Prescott, Glenbrook, assignors to Columbia Phonograph Company, Inc., Bridgeport, Conn. Pick-up arm. 1,724,992; Aug. 20.  
 Capps, William A., Erwin, N. C. Detector. 1,725,128; Aug. 20.  
 Capps, William P. (See Rife, M. O., and Capps.)  
 Capriles, Jacob D., Curacao, Dutch West Indies. Police club. 1,700,023; Jan. 22.  
 Caprioli, Joseph J., assignor to G. Reis & Bros., Inc., New York, N. Y. Machine and method for operating on strip material. 1,717,917; June 18.  
 Caproni, Gianni, Rome, Italy, assignor, by mesne assignments, to Curtiss-Caproni Corporation, Wilmington, Del. Longeron for aeroplanes. 1,731,157; Oct. 8.  
 Caps, Arthur W., Rochester, N. Y., assignor, by mesne assignments, to Photostat Corporation, Providence, R. I. Copyholder for photographic machines. 1,702,494; Feb. 19.  
 Caps, Arthur W., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Duplex camera. 1,702,995; Feb. 19.  
 Caps, Arthur W., Kansas City, Mo., assignor to Photostat Corporation, Providence, R. I. Photographic copying machine. 1,728,102; Sept. 10.  
 Caps, Arthur W., Kansas City, Mo., assignor, by mesne assignments, to Photostat Corporation, Providence, R. I. Reproducing or enlarging camera. 1,739,886; Dec. 17.  
 Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic printer and printing. 1,704,785; Mar. 12.  
 Capstaff, John G., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y. Judging film. 1,716,417; June 11.  
 Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,735,155; Nov. 12.  
 Capstan Glass Company. (See Brown, Banks D., assignor.)  
 Caracristi, Virginius Z. (See Muhlfeld, J. E., and Caracristi.)  
 Caracristi, Virginius Z. (See Piron, E., and Caracristi.)  
 Caracristi, Virginius Z., Bronxville, N. Y. Device for controlling steam-engine operation. 1,704,381; Mar. 5.  
 Caracristi, Virginius Z., Bronxville, assignor to International Combustion Engineering Corporation, New York, N. Y. Generation of steam. 1,724,560; Aug. 13.  
 Caracristi, Virginius Z., Bronxville, assignor to Locomotive Pulverized Fuel Company, New York, N. Y. Furnace for burning finely-divided fuel. 1,738,636; Dec. 10.  
 Caras, Sam K., Missoula, Mont. Carrier for potted plants. 1,708,752; Apr. 9.  
 Carbenay, Fernand, Paris, France. Transformer for amplifier devices. 1,702,072; Feb. 12.  
 Carberry, Francis J., New Orleans, La. Fountain brush. 1,708,718; Apr. 9.  
 Carbide & Carbon Chemicals Corporation. (See Bagley, Glen D., assignor.)  
 Carbide & Carbon Chemicals Corporation. (See Curme, Henry R., assignor.)  
 Carbide and Carbon Chemicals Corporation. (See Davidson, Joseph G., assignor.)



- Carbide & Carbon Chemicals Corp. (See Farrar, Mercer G., assignor.)
- Carbide and Carbon Chemicals Corporation. (See Holden, Hiram C., assignor.)
- Carbide and Carbon Chemicals Corporation. (See Ray, Arthur B., assignor.)
- Carbonaro, Mario, Paris, France. Servo meter for liquid distributors. 1,728,821; Sept. 17.
- Carbonaro, Marius C., assignor to Societe Hardoll, Paris, France. Automatic recording meter for liquids. Re17,287; May 7.
- Carbondale Machine Company. (See McCabe, E. B., and Chamberlain, assignors.)
- Carbone, Joseph J., Beverly, Mass. Hammering tool. 1,700,024; Jan. 22.
- Carborundum Company. (See Cannon, Hiram B. and J. W., assignors.)
- Carborundum Company, The. (See Beach, Hobart C., assignor.)
- Carborundum Company, The. (See Cannon, Hiram B., assignor.)
- Carborundum Company, The. (See Dresser, George E., assignor.)
- Carborundum Company, The. (See Forse, Edwin B., assignor.)
- Carborundum Company, The. (See Hartmann, M. L., and Miller, assignors.)
- Carborundum Company, The. (See Hawke, Clarence E., assignor.)
- Carburoil Aktiengesellschaft. (See Wolf, Hermann, assignor.)
- Card Display, Inc. (See Bloomingdale, Hiram C., assignor.)
- Card, Earl J., assignor to Art Metal Construction Company, Jamestown, N. Y. Desk. 1,705,151; Mar. 12.
- Card, Earl J., assignor to Art Metal Construction Company, Jamestown, N. Y. Binding means for the surface coverings for furniture. 1,705,152; Mar. 12.
- Card, Earl J., assignor to Art Metal Construction Company, Jamestown, N. Y. Desk. 1,718,948; July 2.
- Card, Earl J., and V. A. Gronberg, assignors to Jamestown Metal Equipment Co., Inc., Jamestown, N. Y. Suspension. 1,725,338; Aug. 20.
- Card, Earl J., and V. A. Gronberg, assignors to Jamestown Metal Equipment Co., Inc., Jamestown, N. Y. Follower. 1,725,339; Aug. 20.
- Card, Earl J., and V. A. Gronberg, assignors to Jamestown Metal Equipment Co., Inc., Jamestown, N. Y. Filing cabinet. 1,735,375; Nov. 12.
- Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-bar-controlling device for sewing machines. 1,697,383; Jan. 1.
- Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser-foot-lifting mechanism for sewing machines. 1,706,872; Mar. 26.
- Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 1,729,994; Oct. 1.
- Cardamone, Joseph, Bath, N. Y. Footwear construction. 1,726,057; Aug. 27.
- Cardarelli, Emilio, Boston, Mass. Combination ladder. 1,723,540; Aug. 6.
- Cardarelli, Frank T., and A. La Barre, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Stitching device for tire-building machines. 1,718,633; June 23.
- Carden, William L. (See Bailes, L. E., and Carden.)
- Cardone, Paul. (See Surico, C., and Cardone.)
- Cardoso, Rufino A., A. S. Merlán, and J. C. Mir, Buenos Aires, Argentina. System for identifying persons, applicable to slot and registering machines. 1,721,371; July 16.
- Cardullo, Forrest E., and H. W. Hunt, assignors to The G. A. Gray Company, Cincinnati, Ohio. Planer head. 1,739,501; Dec. 17.
- Cardwell, James R. (See Barnard, H., and Cardwell.)
- Cardwell, James R., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,702,037; Feb. 12.
- Cardwell, James R., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,709,895; Apr. 23.
- Cardwell, Samuel O., London, assignor to Dunlop Rubber Company, Ltd., For Dnlop, Erdington, Birmingham, England. Tennis racket and the like. 1,721,897; July 23.
- Cardwell, William J., assignor of one-fifth to R. S. Day, one-tenth to C. C. Day, one-tenth to L. A. Hall, and one-tenth to A. Durr, Owosso, Mich. Automatic railroad grade-crossing signal. 1,716,683; July 11.
- Carel, William H. (See McBrayer, Wesley A., assignor.)
- Carel, William H., jr., Cincinnati, Ohio. Adjustable floating bushing. 1,741,183; Dec. 31.
- Carella, Ferdinando, Hoboken, N. J. Nonslipping horse shoe. 1,704,653; Mar. 5.
- Cares, Harry F., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade fastening. 1,718,030; June 18.
- Caretta, Ettore, Turin, Italy. Fluid-operating shock absorber. 1,729,565; Sept. 24.
- Carey, Agnes M., administratrix. (See Carey, Robert F.)
- Carey, Charles D., Channing, Mich. Automatic ground release for aeroplanes. 1,702,682; Feb. 19.
- Carey, Dennis E., Lawrence, Mass. Fire-fighting appliance. 1,735,376; Nov. 12.
- Carey, James A., Pittsburgh, Pa. Support for containers. 1,719,097; July 2.
- Carey, John O., assignor to C & C Engineering Co., Inc., St. Louis, Mo. Evaporator tank and method. 1,733,400; Oct. 29.
- Carey, Philip, Manufacturing Company. (See Mills, George W., jr., assignor.)
- Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)
- Carey, Philip, Manufacturing Company, The. (See Stagg, Jones P., assignor.)
- Carey, Philip, Manufacturing Company, The. (See Stough, Jay A., assignor.)
- Carey, Philip, Manufacturing Company, The. (See Witter, Leo E., assignor.)
- Carey, Robert F., deceased, Leigh-on-Sea, assignor of two-thirds to J. Robson, Clareville, Caterham Valley, England; Agnes M. Carey, administratrix. Hydraulic pump, motor, brake, transmission gear, and the like. 1,710,567; Apr. 23.
- Cargle, Benjamin F., assignor of one-half to T. E. Zuzer, Kosston, Ark. Sucker-rod coupling. 1,717,186; June 11.
- Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Clutch-drum construction. 1,701,909; Feb. 12.
- Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission mechanism. 1,703,473; Feb. 26.
- Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission mechanism having power-operated clutch. 1,708,440; Apr. 9.
- Carhart, George C., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Transmission mechanism. 1,713,024; May 14.
- Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Double-plate clutch. 1,717,355; June 18.
- Carhart, George C., Flint, Mich., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission gearing. 1,724,451; Aug. 13.
- Carhart, George C., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Clutch. 1,732,965; Oct. 22.
- Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission mechanism and brake. 1,739,946; Dec. 17.
- Carich, Joseph, Miami, Ariz. Harp for trolley poles. 1,726,538; Sept. 3.
- Carichoff, Eugene R., and B. W. Jones, Schenectady, N. Y., assignors to General Electric Company. Motor control. 1,720,623; July 9.
- Carichoff, Eugene R., and B. W. Jones, Schenectady, N. Y., assignor to General Electric Company. Motor-control system. 1,720,624; July 9.
- Cariens, William S., Parkersburg, W. Va. Emergency light. 1,701,139; Feb. 5.
- Carl, Gustav R., Chicago, Ill. Window-frame sash and hardware combination. 1,728,040; Sept. 10.
- Carl, Harry H., Tremont, and H. E. Muehlhof, Pottsville, Pa. Hydraulic separator. 1,710,568; Apr. 23.
- Carl Holmbergs, Mekanska Verkstads Aktiebolag. (See Anderberg, Anders and E. A., assignors.)
- Carlberg, Albin E., Osage, Saskatchewan, Canada. Oil dispenser. 1,725,056; Aug. 20.
- Carlberg, Carl S., Mound, Minn., assignor to Pressteel Radiator Company. Radiator. 1,703,572; Feb. 26.
- Carlberg, Frank E., Pleasantville, Pa. Pumping apparatus. 1,707,707; Apr. 2.
- Carle, Harold, Buffalo, N. Y., assignor, by mesne assignments, to Vortex Mfg. Co., Chicago, Ill. Cup blank. 1,713,519; May 21.
- Carles, Simeon, and L. Mayolino, Habana, Cuba. Pneumatic wheel. 1,718,854; June 25.
- Carleton, Cecil R., assignor to Brockton Stay Company, Brockton, Mass. Finishing welt. 1,721,856; July 23.
- Carleton, Herbert O., Brooklyn, N. Y., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Photographic-film printer. 1,738,095; Dec. 3.
- Carleton, Lester J., Manchester, N. H. Golfing accessory. 1,714,346; May 21.
- Carleton, Robert A., Newton Center, Mass. High-temperature fluid-heating apparatus. 1,727,584; Sept. 10.
- Carleton, Robert A., Newton Center, Mass. Fluid heating and vaporizing apparatus. 1,727,585; Sept. 10.
- Carley, Leonard R. (See White, F. R., and Carley.)
- Carlin Comforts, Inc. (See May, Janet, assignor.)
- Carlin, Earle L., Peoria, Ill. Pumping system. 1,702,719; Feb. 19.
- Carlisle, Charles C., Cheyenne, Wyo. Gas-lift starting valve. 1,719,589; July 2.
- Carlisle, Charles J., Coldwater, Mich. Automobile wardrobe. 1,726,257; Aug. 27.
- Carlisle, Samuel M., Louisville, Ky. Barge-handling device. 1,703,836; Feb. 26.
- Carloni, Mariano, Concord, N. Y. Ship safety device. 1,708,784; Apr. 9.
- Carlough, Howard W., assignor to Keen Waving Company, Incorporated, New York, N. Y. Hair-waving pad. Re17,213; Feb. 12.
- Carlsen, Andrew E. (See Shadrick, Richard H., assignor.)
- Carlsen, Carl E., San Francisco, Calif. Aeronautical device. 1,710,918; Apr. 30.
- Carlson, Adolph G., Chicago, Ill. Internal-combustion engine. 1,720,206; July 9.



- Carlson, Albert, Princeton, Ill. Slipper insert. 1,712,420; May 7.
- Carlson, Alex P., Portland, Oreg. Sound post. 1,729,244; Sept. 24.
- Carlson, Anthony E., Los Angeles, Calif. Rotary bit. 1,737,215; Nov. 26.
- Carlson, Artie C., Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and H. H. Rockwell, as trustees. Toy boat. Des. 77,669; Feb. 12.
- Carlson, Artie C., Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and H. H. Rockwell, trustees. Running gear for toy wagons. 1,728,925; Sept. 24.
- Carlson, Artie C., Valparaiso, Ind., assignor, by mesne assignments, to The Northern Trust Company and H. H. Rockwell as trustees. Coaster-wagon rear axle. 1,741,142; Dec. 31.
- Carlson, Axel F., Cambridge, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread trimmer for buttonhole-sewing machines. 1,705,044; Mar. 12.
- Carlson, Axel F., Cambridge, assignor to Reece Shoe Machinery Company, Boston, Mass. Wiping mechanism. 1,712,979; May 14.
- Carlson, Axel F., Cambridge, and H. E. Althens, Auburndale, assignors to The Reece Button Hole Machine Company, Boston, Mass. Work-clamp-spreading mechanism for sewing machines. 1,726,383; Aug. 27.
- Carlson, Axel F., Cambridge, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. 1,729,995; Oct. 1.
- Carlson, Axel F., Cambridge, assignor to Reece Shoe Machinery Company, Boston, Mass. Press for cutting or punching sheet material. 1,738,637; Dec. 10.
- Carlson, Axel F., Cambridge, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing machine. 1,738,863; Dec. 10.
- Carlson, Axel F., Cambridge, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing machine. 1,739,059; Dec. 10.
- Carlson, Carl T., assignor to Erie City Iron Works, Erie, Pa. The lock. 1,738,283; Dec. 3.
- Carlson, Carl T., assignor to Erie City Iron Works, Erie, Pa. Steam boiler. 1,739,502; Dec. 17.
- Carlson, Charles A., Ridley Park, Pa. Internal-combustion engine. 1,727,860; Dec. 10.
- Carlson, Edgar W., and C. L. Cole, Alexandria, Minn. Lingerie clasp. 1,718,524; June 25.
- Carlson, Edwin G., Riverside, assignor to Spedel Chain Co., Providence, R. I. Extension device. 1,738,561; Dec. 10.
- Carlson, Elmer C., Minneapolis, Minn. Shopping bag. 1,730,603; Oct. 8.
- Carlson, Emil B., Chicago, Ill. Jamb-supporting stay. 1,697,456; Jan. 1.
- Carlson, Enoch A., Delvalle, Tex. Bag holder. 1,716,763; June 11.
- Carlson, Eric. (See Will, W. O., and Carlson.)
- Carlson, Frank J., Los Angeles, assignor to A. E. Baird and L. Kennedy, Beverly Hills, Calif. Incinerator. 1,737,638; Dec. 3.
- Carlson, Frank O., Minneapolis, Minn. Tire-chain lock. 1,716,113; June 4.
- Carlson, George, Ansonia, Conn., assignor to General Electric Company. Electric-circuit connector. 1,733,861; Oct. 29.
- Carlson, George, Ansonia, Conn., assignor to General Electric Company. Adjustably-supporting outlet boxes. 1,734,893; Nov. 5.
- Carlson, George H., and A. G. Larson, assignors to Ekstrom, Carlson & Co., Rockford, Ill. Wood-sawing machine. 1,700,400; Jan. 29.
- Carlson, Gustav W., assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Automotive brake. 1,715,340; May 28.
- Carlson, Gustav W., assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Automotive brake. 1,724,452; Aug. 13.
- Carlson, Gustave A., Detroit, Mich. Chain and wheel drive. 1,725,506; Aug. 20.
- Carlson, Gustave A., Detroit, Mich. Buffing and polishing machine. 1,738,356; Dec. 3.
- Carlson, Harry B. (See Wallace, J. E., and Carlson.)
- Carlson, Harry J., Grove City, Pa. Egg beater. 1,718,111; June 18.
- Carlson, Iddo E., assignor to C. G. Conn, Ltd., Elkhart, Ind. Horn valve. 1,716,917; June 11.
- Carlson, John A. E., assignor to Jacobson Manufacturing Company, Racine, Wis. Power mower. 1,734,713; Nov. 5.
- Carlson, John B., Kirkland, Wash. Rotary brush. 1,721,655; July 23.
- Carlson, John E., assignor to Atlanta Casket Company, Atlanta, Ga. Burial casket. 1,742,130; Dec. 31.
- Carlson, John W., T. M. Walsh, Chicago, and O. Slettewold, Evanston, assignors to Hedman Manufacturing Company, Chicago, Ill. Check certifier. 1,721,104; July 16.
- Carlson, John W., Salt Lake City, Utah. Hammer with adjustable fulcrum. 1,737,958; Dec. 3.
- Carlson, Jonas P., Astoria, Oreg. Nonfouling flagstaff. 1,712,691; May 14.
- Carlson, Joseph E., Bradshaw, Nebr. Horse collar. 1,710,448; Apr. 23.
- Carlson, Julius, Brooklyn, N. Y. Cap. 1,724,071; Aug. 13.
- Carlson, Julius, Brooklyn, N. Y. Adjustable cap. 1,738,638; Dec. 10.
- Carlson, Martin O., Chicago, Ill. Push sled. 1,700,997; Feb. 5.
- Carlson, Nelson A., assignor to Erie Meter System, Inc., Erie, Pa. Dispensing-tank mechanism. 1,714,296; May 21.
- Carlson, Oscar B., Oak Park, Ill. Air cushion. 1,706,560; Mar. 26.
- Carlson, Oscar E., Dorchester, Mass. Soot cleaner for locomotives. 1,707,844; Apr. 2.
- Carlson, Oscar F., assignor to Deere & Company, Moline, Ill. Buckle. 1,718,274; June 25.
- Carlson, Oscar H., Galveston, Tex. Soap. 1,705,852; Mar. 19.
- Carlson, Philip, Bridgeport, Conn. Cab for trucks. 1,720,317; July 9.
- Carlson, Signe, Chicago, Ill. Hair-waving implement. 1,731,522; Oct. 15.
- Carlson, Theodore, Seattle, Wash. Hoisting apparatus. 1,731,970; Oct. 15.
- Carlson, Walter C., assignor to Milwaukee Paper Box Company, Milwaukee, Wis. Dispensing device. 1,734,031; Nov. 5.
- Carlson, Wendell L., Schenectady, N. Y., assignor to General Electric Company. Method of and apparatus for signal reception. 1,734,894; Nov. 5.
- Carlson, Wendell L., Schenectady, N. Y., assignor to General Electric Company. Tuning of high-frequency circuits. 1,740,331; Dec. 17.
- Carlson, William, Jamestown, N. Y. Fireplace screen. Des. 77,935; Mar. 12.
- Carlsson, Ernst H., Oscarshamn, Sweden. Machine for ramming paving stones or the like. 1,702,720; Feb. 19.
- Carlsson, Ernst H., Oscarshamn, Sweden. Road-tamping machine. 1,709,562; Apr. 16.
- Carlsson, Ernst H., Tannefors, Linköping, Sweden. Road-tamping machine. 1,725,057; Aug. 20.
- Carlstadt Holding Corporation. (See Conant, William H., assignor.)
- Carlsted, Paul S., Van Nuys, assignor to Robert Morton Organ Co., San Francisco, Calif. Chest action for pipe organs. 1,711,989; May 7.
- Carlstedt, Sven M., Stockholm, Sweden. Nozzle of vacuum cleaners. 1,740,001; Dec. 17.
- Carlton, George. (See Webb, Q. C., and Carlton.)
- Carlton, John A., Atlanta, Ga. Agricultural implement. 1,726,886; Sept. 3.
- Carlton, Richard P., assignor to Minnesota Mining and Manufacturing Company, St. Paul, Minn. Composite structure. 1,736,964; Nov. 26.
- Carman, Edwin S., East Cleveland, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Mechanism for handling sand in foundries. 1,739,887; Dec. 17.
- Carman, Francis J., New York, N. Y. Manufacture of oxidation products of hydrocarbons. 1,697,105; Jan. 1.
- Carman, Francis J., and T. H. Chilton, New York, N. Y. Manufacture of formaldehyde and other oxidation products of hydrocarbons. 1,697,106; Jan. 1.
- Carman, James H., Kansas City, Mo. Heater mounting. 1,717,550; June 18.
- Carman, James H., Kansas City, Mo. Electric heater. 1,723,405; Aug. 6.
- Carman, James H., Kansas City, Mo. Heater. 1,723,406; Aug. 6.
- Carman, Stanley G., Ada, Ohio, and A. C. Crimmel, assignors of one-third to Sneath Glass Company, Hartford City, Ind. Chick fount. 1,718,944; July 2.
- Carmichael, Andrew J., assignor to The Greist Manufacturing Company, New Haven, Conn. Portable electric lamp. Des. 78,560; May 21.
- Carmichael, Andrew J., and O. Balzano, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine hemmer. 1,704,168; Mar. 5.
- Carmichael, Andrew J., and O. Balzano, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine presser foot. 1,704,169; Mar. 5.
- Carmichael, Andrew J., and O. Balzano, assignors to The Greist Manufacturing Company, New Haven, Conn. Portable lamp. 1,719,098; July 2.
- Carmichael, Andrew J., and O. Balzano, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine ruffler. 1,725,751; Aug. 27.
- Carmichael, Andrew J., and A. M. Wunderlich, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine braider or corder. 1,697,555; Jan. 1.
- Carmichael, Andrew J., and A. M. Wunderlich, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine braider or corder. 1,704,170; Mar. 5.
- Carmichael, Charles, New York, N. Y. Interlocking joint for steel construction. 1,728,782; Sept. 17.
- Carmichael, Frank K., Corona, N. Y. Display rack. 1,726,537; Sept. 3.
- Carmichael, William A. (See Hart, F. H., and Carmichael.)
- Carmin, Samuel, Syracuse, N. Y. Window-frame construction. 1,735,952; Nov. 19.
- Carnahan, Earl J., Santa Fe Springs, assignor of one-half to W. L. Borough, Los Angeles, Calif. Standing-valve construction. 1,736,486; Nov. 19.
- Carnahan, John W., Philadelphia, Pa. Assembling resilient wheels. 1,730,559; Oct. 8.
- Carnahan, Ralph W., assignor, by mesne assignments, to The Paramount Fire Alarm Engineering Company, Cleveland, Ohio. Signal box. 1,704,696; Mar. 12.



- Carnahan, Ralph W., assignor, by mesne assignments, to The Paramount Fire Alarm Engineering Company, Cleveland, Ohio. Combination fire and police alarm and telephone call box. 1,704,697; Mar. 12.
- Carnegie Institution of Washington. (See Bauer, L. A., Peters, and Fleming, assignors.)
- Carnegie Institution of Washington. (See Benioff, Hugo, assignor.)
- Carnegie Steel Company. (See McIntyre, Malcolm, assignor.)
- Carner, Jefferson C., Marietta, Ohio. Shut-off device. 1,734,074; Nov. 5.
- Carnes, Fred W. (See Holanbek, Gustav J., assignor.)
- Carney, Cleveland P., assignor to Calumet Baking Powder Company, Chicago, Ill. Dough cutter. 1,727,747; Sept. 10.
- Carney, Cleveland P., assignor to Calumet Baking Powder Company, Chicago, Ill. Dough cutter. 1,727,748; Sept. 10.
- Carney, Peter A., Wichita, Kans. Head scutcher. 1,722,902; July 30.
- Carney, Samuel C., Tulsa, Okla., assignor to Shell Petroleum Corporation. Refrigeration. 1,713,883; May 21.
- Carney, Samuel C., Tulsa, Okla., assignor to Shell Petroleum Corporation. Refrigerating process. 1,726,341; Aug. 27.
- Carney, Samuel C., Tulsa, Okla., assignor to Shell Petroleum Corporation. Refrigerating process. 1,732,460; Oct. 22.
- Carney, Samuel C., Tulsa, Okla., assignor to Shell Petroleum Corporation. Evaporating refrigerant liquid. 1,739,750; Dec. 17.
- Carney, Samuel C., Tulsa, Okla., assignor to Shell Petroleum Corporation. Refrigerating system. 1,740,281; Dec. 17.
- Carney, Samuel E., Wick, assignor of fifty-one one-hundredths to J. Collins, Charleston, W. Va. Splice. 1,724,823; Aug. 13.
- Carnie, John A., and J. A. Sutton, Detroit, Mich., assignors to American Car and Foundry Motors Company, New York, N. Y. Hood shutter. 1,693,186; Jan. 8.
- Carnoe, William H., Tiverton, R. I. Cup vase and spray holder. 1,722,197; July 23.
- Carnovali, Antonio. (See Carnovali, Giovanni B. and A.)
- Carnovali, Giovanni B. and A., Bellano, Italy. Controlling mechanism for cocoon-spinning machines. 1,711,084; Apr. 30.
- Carns, Edmund B., New York, N. Y. Planking or sheathing substitute. 1,698,255; Jan. 8.
- Carns, Edmund B., New York, N. Y. Beam or girder. 1,706,996; Mar. 26.
- Carns, Edmund B., New York, N. Y. Metal strut. 1,725,439; Aug. 20.
- Carns, Edmund B., New York, N. Y. Lock washer. 1,725,440; Aug. 20.
- Carns, Edmund B., New York city, N. Y. Fuselage. 1,727,394; Sept. 10.
- Caro, Abraham. (See Horton, W. E., and Caro.)
- Caro Cloth Corporation. (See Chase, Charles H., assignor.)
- Caroccio, Giuseppe, assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Fall-board-operating mechanism. 1,712,980; May 14.
- Carolan, Patrick, Cleveland, Ohio. Armor safety sleeve. 1,726,014; Aug. 27.
- Carolin, Frank J., assignor to Kohn & Company, Newark, N. J. Clasp. 1,724,561; Aug. 13.
- Caron, Ada. (See Kohloff, Paul, assignor.)
- Caron Corporation. (See Daltroff, Ernest, assignor.)
- Caron, Samuel U., Chicago, Ill. Ventilator. 1,729,760; Oct. 1.
- Carothers, Charles O., Kenton, Ohio. Clay-pigeon trap. 1,728,595; Sept. 17.
- Carothers, John N., and C. F. Booth, Anniston, assignors to Federal Phosphorus Company, Birmingham, Ala. Production of acid sodium pyrophosphate. 1,699,093; Jan. 15.
- Carouso, Aristides S., Flushing, N. Y. Aircraft heater. 1,703,612; Feb. 26.
- Carozza, Antonio T., Catonsville, and J. H. Smith, Baltimore, Md. Bending machine. 1,703,261; Feb. 26.
- Carozzi, Augusto, Rome, Italy. Propelling ships. 1,703,722; Feb. 26.
- Carpe, Allen, New York, N. Y., assignor to American Telephone and Telegraph Company. Method of and apparatus for reducing width of transmission bands. 1,735,037; Nov. 12.
- Carpenter, Alvin C., R. E. Pierce, C. V. Brady, and H. V. Howes, assignors to Bemis Bro. Bag Co., St. Louis, Mo. Flexible moistureproof container and making the same. 1,702,592; Feb. 19.
- Carpenter, Arthur, Eatonton, Ga. Water wheel. 1,704,691; Mar. 12.
- Carpenter, Campbell C., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Electrolytic rectifier. 1,727,963; Sept. 10.
- Carpenter, Charles L., and W. E. Jaquith, Syracuse, N. Y. Septic tank. 1,708,118; Apr. 9.
- Carpenter, Charles L., and W. E. Jaquith, Syracuse, N. Y. Chemical toilet. 1,715,116; May 28.
- Carpenter, Clifford D., New York, N. Y. Method of making arsenates. 1,737,639; Dec. 3.
- Carpenter, Cranston H., and A. D. Keene, Mansfield, Ohio, assignors to Westinghouse Electric and Manufacturing Company. Cooled rim on cyanide pots. 1,705,714; Mar. 19.
- Carpenter, Cranston H., and A. D. Keene, Mansfield, Ohio, assignors to Westinghouse Electric and Manufacturing Company. Furnace. 1,725,129; Aug. 20.
- Carpenter, Edwin P., Horley, England, assignor to American Machine & Foundry Company. Making plastic compositions. 1,740,573; Dec. 24.
- Carpenter, Frank D., assignor of one-half to A. H. Hough, Concord, N. H., and one-half to myself. Mirror for automobiles. 1,703,059; Feb. 19.
- Carpenter, Frank D., Concord, assignor of one-half to A. H. Hough, Lebanon, N. H. Steering-wheel lock for automobiles. 1,736,900; Nov. 26.
- Carpenter, Glenn W., Schenectady, N. Y., assignor to General Electric Company. Vacuum-tube circuit. 1,723,013; Aug. 6.
- Carpenter-Goldman Laboratories, Inc. (See Goldman, Frank L., assignor.)
- Carpenter, Grant, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Fuse mounting. 1,699,046; Jan. 15.
- Carpenter, Guy, New York, N. Y. Spark arrester. 1,697,305; Jan. 1.
- Carpenter, Guy, New York, N. Y. Spark arrester. 1,712,292; May 7.
- Carpenter, Guy, New York, N. Y. Spark arrester. 1,729,997; Oct. 1.
- Carpenter, Guy, New York, N. Y. Spark and cinder arrester for locomotives. 1,731,043; Oct. 8.
- Carpenter, Guy, New York, N. Y. Spark arrester. 1,737,145; Nov. 26.
- Carpenter, John H. K., Richmond, Va. Valve grinder. 1,709,428; Apr. 16.
- Carpenter, John J. (See Tolen, R. P., and Carpenter.)
- Carpenter, Paul. (See Barbieri, C., and Carpenter.)
- Carpenter, Paul. (See Dellenbarger, Charles E., assignor.)
- Carpenter, Richard J., Oakland, Calif. Pick for musical instruments. 1,741,285; Dec. 31.
- Carpenter, Robert F., and T. F. Anderson, assignors to The Sanymetal Products Company, Cleveland, Ohio. Hinge. 1,698,390; Jan. 8.
- Carpenter, Russell, Three Rivers, Quebec, Canada. Paper-feeding means for paper-making machines. 1,732,833; Oct. 22.
- Carpenter, Square L., Waxahachie, Tex. Making engine manifolds. 1,699,279; Jan. 15.
- Carpenter, Stanley W., Cornwall, and G. N. White, London, England, assignors to Pulp Binder Development Company Limited, Kimberly, South Africa. Binder for binding an aggregate and manufacturing same. 1,724,393; Aug. 13.
- Carpenter Steel Company, The. (See Palmer, Frank R., assignor.)
- Carpenter, Thomas L., and R. L. Zachary, Marlow, Okla. Bed attachment for vehicles. 1,715,221; May 28.
- Carpenter, Ward D. (See Riddle, R. A. and Carpenter.)
- Carpenter, Warren W., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. 1,700,466; Jan. 29.
- Carpenter, Wilfred L., Cedar Grove, La. Saw clamp. 1,737,216; Nov. 26.
- Carpenter, William A., assignor of one-half to C. H. Campbell, Hartsville, S. C. Textile roll. 1,730,357; Oct. 8.
- Carpenter, William J., Cross Plains, and J. Teague, Brownwood, assignors of one-third to Cree and Company, Cross Plains, Tex. Splicing tool. 1,725,616; Aug. 20.
- Carpenter, William W. S., assignor to Sanford Mfg. Co., Chicago, Ill. Mucilage dispenser and spreader. 1,735,078; Nov. 12.
- Carpenter, William W. S., assignor to Sanford Manufacturing Co., Chicago, Ill. Mucilage bottle. 1,735,262; Nov. 12.
- Carper, Alexander Y., Ralston, Okla. Window-shade housing. 1,731,124; Oct. 8.
- Carpet Device Corp. (See Peek, Alva J., assignor.)
- Carpita, John, Chicago, Ill. Water-impurities-reducing tank. 1,724,693; Aug. 13.
- Carpmuel, Richard H., Moulton, England. Closure for bottles and other containers. 1,732,834; Oct. 22.
- Carpmill, John F., assignor to North & Judd Manufacturing Company, New Britain, Conn. Belt buckle. 1,722,896; July 30.
- Carr, Edward G., Chicago, Ill. Machine for preparing bases for rails and the like. 1,704,382; Mar. 5.
- Carr, Edward G., Chicago, Ill. Earth-mold-making machine. 1,741,825; Dec. 31.
- Carr, Edward G., Chicago, Ill., assignor to The Lakewood Engineering Company, Lakewood, Ohio. Concrete-working apparatus. 1,715,739; June 4.
- Carr, Evans P., Rochester, N. Y. Making toe stiffeners. 1,734,418; Nov. 5.
- Carr Fastener Company. (See Anderson, Andrew G., assignor.)
- Carr Fastener Company. (See Carr, Fred S., assignor.)
- Carr Fastener Company. (See Carr, Moses F., assignor.)
- Carr Fastener Company. (See Hayden, Lester N., assignor.)
- Carr Fastener Company. (See Johnson, Gustav, assignor.)
- Carr Fastener Company. (See Johnson, Thomas W., assignor.)
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,699,485; Jan. 15.



- Carr, Fred S., Newton, Mass., assignor, by mesne assignments, to Carr Fastener Company. Nut and screw fastening. 1,711,453; Apr. 30.
- Carr, Fred S., Newton, Mass., assignor, by mesne assignments, to Carr Fastener Company. Separable fastener. 1,711,454; Apr. 30.
- Carr, Fred S., Newton, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Separable snap fastener. 1,731,704; Oct. 15.
- Carr, Fred S., Newton, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation. Nut and screw fastening. 1,742,131; Dec. 31.
- Carr, John A., Los Angeles, Calif. Method and apparatus for making hollow bodies. 1,710,919; Apr. 30.
- Carr, John A., assignor to Western Concrete Pipe Company, Los Angeles, Calif. Wire-collar machine. 1,697,631; Jan. 1.
- Carr, John A., assignor to Western Concrete Pipe Company, Los Angeles, Calif. Bearing. 1,697,632; Jan. 1.
- Carr, John J. (See Watts, R. T., and Carr.)
- Carr-Lowrey Glass Company. (See Lloyd Philip G., assignor.)
- Carr, Melvin K., Bremerton, Wash. Ladder. 1,728,854; Sept. 17.
- Carr, Moses F., Lexington, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,699,486; Jan. 15.
- Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to Carr Fastener Company. Machine for making separable fastener studs. 1,711,455; Apr. 30.
- Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to Carr Fastener Company. Fastener stud. 1,711,456; Apr. 30.
- Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,716,483; June 11.
- Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricant nipple. 1,725,178; Aug. 20.
- Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating system. 1,725,179; Aug. 20.
- Carr, Moses F., Lexington, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,729,985; Oct. 1.
- Carr, Richard H., and C. B. Watson, Columbus, Ohio, assignors to The Pure Oil Company, Chicago, Ill. Low-temperature distillation of bituminous coal. 1,698,907; Jan. 15.
- Carr, William C., assignor to The Automatic Transportation Company, Inc., Buffalo, N. Y. Industrial truck. 1,739,708; Dec. 17.
- Carr, William M., Woodcourt, Brooklands, and T. J. Ashley, deceased, by A. E. Ashley, executrix, Broadstairs, England. Coal-distillation apparatus. 1,726,058; Aug. 27.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Compressor. 1,707,796; Apr. 2.
- Carrey, John O., assignor to C & C Engineering Co., Inc., St. Louis, Mo. Compressor. 1,709,838; Apr. 23.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Flexible motor mounting. 1,716,484; June 11.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Seal. 1,724,125; Aug. 13.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Multiple flywheel and centrifugal clutching mechanism therefor. 1,724,126; Aug. 13.
- Carrey, John O., assignor to C & C Engineering Co., Inc., St. Louis, Mo. Combination valve, drier, and strainer. 1,726,805; Sept. 3.
- Carrey, John O., assignor to Carrey-Morse Engineering Company, St. Louis, Mo. Compressor. 1,731,044; Oct. 8.
- Carrey, John O., assignor to C & C Engineering Co., Inc., St. Louis, Mo. Shaft seal. 1,740,682; Dec. 24.
- Carrey-Morse Engineering Company. (See Carrey, John O., assignor.)
- Carri, Hermann, New York, N. Y. Duplex scissors. 1,715,898; June 4.
- Carrick, Thomas, Allenwood, N. J. Fire-curtain-operating device. 1,700,626; Jan. 29.
- Carrier Construction Company. (See Gamble, William J., assignor.)
- Carrier Engineering Corporation. (See Carrier, Willis H., assignor.)
- Carrier Engineering Corporation. (See Miller, Edgar S., assignor.)
- Carrier Engineering Company Limited. (See Robertson, K. J. R., and Fowler, assignors.)
- Carrier, Fortunat, Detroit, Mich. Milk-bottle container. 1,732,037; Oct. 15.
- Carrier, Fortunat, assignor of one-half to H. B. Fields, Detroit, Mich. Paper-vending machine. 1,723,541; Aug. 6.
- Carrier, Willis H. (See Bloom, S. C., and Carrier.)
- Carrier, Willis H. Essex Fells, assignor to Carrier Engineering Corporation, Newark, N. J. Refrigeration and other apparatus including fluid compressors and the like. 1,709,896; Apr. 23.
- Carrier, Willis H., Essex Fells, assignor to Carrier Engineering Corporation, Newark, N. J. System for cooling mines and other chambers requiring ventilation. 1,717,005; June 11.
- Carrier, Willis H., Essex Fells, assignor to Carrier Engineering Corporation, Newark, N. J. Method of and apparatus for refrigeration. 1,718,683; June 25.
- Carrier, Willis H., Essex Fells, assignor to Carrier Engineering Corporation, Newark, N. J. Lubricating, sealing, and thrust-balancing means for compressors and the like. 1,721,614; July 23.
- Carrigan, Jesse L., Birmingham, Ala. Convertible screen door. 1,716,764; June 11.
- Carrillo, Alexander C., assignor of one-half to F. E. White, San Francisco, Calif. Piston. 1,737,915; Dec. 3.
- Carrillo, Jesus L., Wilmington, Calif. Oil hand-pressure device. 1,719,286; July 2.
- Carris, Edward C., assignor to The Carris Manufacturing Company, Washington, Iowa. Button-blank-grinding machine. 1,713,257; May 14.
- Carris Manufacturing Company, The. (See Carris, Edward C., assignor.)
- Carroll, Alexander W., Elizabeth, N. J. Apparatus for casting metal ingots. 1,723,601; Aug. 6.
- Carroll, Andrew L., St. Louis, Mo. Axle bearing. 1,723,764; Aug. 6.
- Carroll, David W. (See Cox, J. F., Thornton, Carroll, and Stoveken.)
- Carroll, Edward R., Burlingame, Calif. Amphibian aeroplane without boat-shaped pontoons. 1,704,076; Mar. 5.
- Carroll, Emil J., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Motor-control mechanism. 1,709,059; Apr. 16.
- Carroll, Emil J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Controlling system for air-conditioning apparatus. 1,714,125; May 21.
- Carroll, Emil J., and G. W. Johnson, assignors to The American Laundry Machinery Company, Norwood, Ohio. Ironing machine. 1,717,874; June 18.
- Carroll, Fred M., Yonkers, assignor to The Tabulating Machine Company, Endicott, N. Y. Cipher-printing system for accounting machines. 1,702,863; Feb. 19.
- Carroll, Fred M., assignor to The Tabulating Machine Company, Endicott, N. Y. Combined sorter and tabulator. 1,710,691; Apr. 30.
- Carroll, Fred M., Yonkers, assignor to The Tabulating Machine Company, Endicott, N. Y. Rotary alphabet-printing tabulator. 1,726,539; Sept. 3.
- Carroll, George S., Williamsett, Mass. Suction box for paper-making machines. 1,732,925; Oct. 22.
- Carroll, Glen L. (See Lynch, G. B., Carroll, and Gumm.)
- Carroll, Hezekiah W., Jr., assignor to Autographic Register Company, Hoboken, N. J. Typewriting machine. 1,731,762; Oct. 15.
- Carroll, Hezekiah W., Jr., assignor to Autographic Register Co., Hoboken, N. J. Manifolding register. 1,732,634; Oct. 22.
- Carroll, Joseph, Brooklyn, assignor to Sapdome Machine Company, Inc., New York, N. Y. Press. 1,729,996; Oct. 1.
- Carroll, Monroe W., Beaumont, Tex. Pipe holder. 1,718,998; July 2.
- Carroll, Monroe W., Beaumont, Tex. Transmission mechanism. 1,732,498; Oct. 22.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether film and composition for making the same. 1,716,418; June 11.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether film and composition for making the same. 1,716,419; June 11.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether film and composition for making the same. 1,716,420; June 11.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,735,156; Nov. 12.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,735,157; Nov. 12.
- Carroll, Stewart J., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether composition. 1,735,158; Nov. 12.
- Carroll, Thomas, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,713,741; May 21.
- Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,725,253; Aug. 20.
- Carroll, Thomas, and E. G. Reid, Hampton, Va. Improving visibility in aircraft. 1,715,277; May 28.
- Carroll, Walter J., Detroit, Mich. Bottle opener. 1,728,041; Sept. 10.
- Carroll, William H., Bogota, N. J. Buckle. 1,737,492; Nov. 26.
- Carroll, William M., Ryderwood, Wash. Unruccutter. 1,727,158; Sept. 3.
- Carry, Edward F., Chicago, Ill. Buffing mechanism. 1,697,045; Jan. 1.
- Cary, Edward F., assignor to The Pullman Company, Chicago, Ill. Bedroom car. 1,712,811; May 14.
- Carson, Clarence, Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation. Vehicle body. Des. 78,561; May 21.
- Carson, Clarence, Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation. Combined vehicle body, hood, and fenders. Des. 78,964; July 16.
- Carson, Emmett L. (See Greer, E. R., and Carson.)
- Carson, James A., Illahoe, Wash. Windshield wiper. 1,709,932; Apr. 23.



- Carson, Robert H., Danville, Ill. Sump pump. 1,721,692; July 23.
- Carson, William E., Riverton, Va. Preparing limestone. 1,721,803; July 23.
- Carson, William H., New Rockford, N. Dak. Road sign. Des. 78,442; May 7.
- Carson, William H., New Rockford, N. Dak. Street lamp. Des. 78,965; July 16.
- Carson, William J., San Francisco, Calif. Perpetual calendar. 1,711,041; Apr. 30.
- Carson, William W., Jr., assignor, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn. Safety device. 1,703,813; Feb. 26.
- Carson, John H. (See Bell, G. A., and Carson.)
- Carson, John R., Harmon-on-Hudson, N. Y., assignor to American Telephone and Telegraph Company. Radio receiving system. 1,734,112; Nov. 5.
- Carter, Alfred M. W., Winnipeg, Manitoba, Canada. Trailer brake. 1,711,720; May 7.
- Carter, Alva J., assignor to Carter Radio Company, Chicago, Ill. Condenser. 1,723,132; Aug. 6.
- Carter, Alva J., assignor to Carter Radio Company, Chicago, Ill. Radioplug. 1,726,692; Sept. 3.
- Carter, A. J. (See Syphrit, Samuel T., assignor.)
- Carter, Benjamin C., South Farnborough, England. Centrifugal separator. 1,714,658; May 28.
- Carter, Byron, et al. (See Van Patten, John W., assignor.)
- Carter, Carnie B., Pittsburgh, Pa. assignor to S. Karpen & Bros., Chicago, Ill. Manufacture of alcohol. 1,733,720; Oct. 29.
- Carter, Carnie B., Pittsburgh, Pa., assignor to S. Karpen & Bros., Chicago, Ill. Manufacture of ethers. 1,733,721; Oct. 29.
- Carter, Charles H. (See Rothman, A. G., and Carter.)
- Carter, Clarence W., Minneapolis, Minn. Device for frying bacon and the like. 1,699,221; Jan. 15.
- Carter, Clarence W., Minneapolis, Minn. Paper folder and prearranged bacon parcel. 1,711,372; Apr. 30.
- Carter, Chapel S., Orange, and B. L. Polkosnik, West Haven, assignors to The H. C. Cook Company, Ansonia, Conn. Signal or clip. 1,713,994; May 21.
- Carter, Donald M. (See Heald, William, assignor.)
- Carter, Donald M., et al. (See Ross, Warren A., assignor.)
- Carter, John K., Clarksville, Ark. Measuring device. 1,735,729; Nov. 12.
- Carter, Edward B., Boston, Mass. Washer-feeding machine. 1,740,963; Dec. 24.
- Carter, Edwin M., assignor, by mesne assignments, to A. M. Hood and W. P. Hahn, trustees, Indianapolis, Ind. Weighing machine. 1,705,217; Mar. 12.
- Carter, Emmett F., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,739,351; Dec. 10.
- Carter, Esther M., Newtonville, Mass. Light-reflecting signal device. 1,739,289; Dec. 10.
- Carter, Frank E., Brawley, Calif. Oil rectifier. 1,701,490; Feb. 12.
- Carter, George R., Company, The. (See Bolender, J. D., and Creamer, assignors.)
- Carter, George R. Company, The. (See Bolender, Joel D., assignor.)
- Carter, Herbert W., Jr. (See Cooke, George W., assignor.)
- Carter, Horace J., Wilmington, Del., assignor to C. Taylor, Kearsley, Manchester, England. Fabric piler. 1,703,474; Feb. 26.
- Carter, Leslie F., Leonia, N. J., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Bearing for gyroscopic apparatus. 1,729,734; Oct. 1.
- Carter, Leslie F., Leonia, N. J., assignor by mesne assignments, to Sperry Gyroscope Company, Inc. Turning error preventor for gyrocompasses. 1,730,967; Oct. 8.
- Carter, Lionel A., Webster Groves, assignor to Koken Companies, St. Louis, Mo. Operating and controlling mechanism for hydraulic barber chairs. 1,738,284; Dec. 3.
- Carter, John J., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Forming armature conductors. 1,721,810; July 23.
- Carter, Joseph C., Washington, D. C. Producing photographic color prints and transparencies. 1,706,107; Mar. 19.
- Carter, Leland E., et al. (See Coleman, George B., assignor.)
- Carter, Leslie F., Leonia, N. J., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Safety bearing for gyrocompasses. 1,717,837; June 18.
- Carter, Mitchell, Los Angeles, Calif. Fluid-holding toy. Re17,248; Mar. 26.
- Carter-Parratt Ltd. (See Ellis, Christopher H., assignor.)
- Carter Radio Company. (See Carter, Alva J., assignor.)
- Carter, R. L., Company. (See Carter, Ray L., assignor.)
- Carter, Ray L., Phoenix, N. Y. Combined router and work support. 1,718,275; June 25.
- Carter, Ray L., Phoenix, N. Y., assignor to R. L. Carter Company, Inc. Woodwork plow. 1,736,965; Nov. 26.
- Carter, Ray L., Phoenix, N. Y., assignor to R. L. Carter Company, Inc. Mortising machine. 1,738,227; Dec. 3.
- Carter, Robert W., Toronto, Ontario, Canada. Producing permanent photograph reproductions on metal. 1,718,945; July 2.
- Carter, Thomas A., Los Angeles, Calif. Water jet. 1,719,045; July 2.
- Carter, William B., Atlanta, Ga. Garment. 1,724,339; Aug. 13.
- Carter, William C., Flint, Mich. Electrically-operated fuel pump. 1,713,073; May 14.
- Carter, William C., Flint, Mich. Carburetor. 1,740,282; Dec. 17.
- Carter, William C., Wellston, Mo. Carburetor. 1,740,453; Dec. 24.
- Carter, William, Company, The. (See Redmond, Harriet L., assignor.)
- Carter's Ink Company, The. (See Hayes, John E. R., assignor.)
- Carter's Ink Company, The. (See Miller, George E., assignor.)
- Cartier, Louis J., Budapest, Hungary, assignor to Cartier, Société Anonyme, Paris, France. Fastening device for watches and other articles of jewelry. 1,702,107; Feb. 12.
- Cartier, Société Anonyme. (See Cartier, Louis J., assignor.)
- Carthage Mills Incorporated. (See Campbell, John B., assignor.)
- Carthage Mills Incorporated. (See Harris, William A. K., assignor.)
- Carthage Mills Incorporated. (See Siegel, Samuel J., assignor.)
- Cartledge, Frank, Cincinnati, Ohio, assignor to Sullivan Machinery Company. Mining machine. 1,734,939; Nov. 5.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,734,938; Nov. 5.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,734,940; Nov. 5.
- Cartmell, John L., Columbus, Ohio. Metallic railroad tie and rail clamp therefor. 1,703,475; Feb. 26.
- Cartoning Machinery Corporation. (See Evans, Harry L., assignor.)
- Cartoning Machinery Corporation. (See Evans, H. L., and Hohl, assignors.)
- Cartotto, Cesare, West New York, N. J. Spanish shawl. Des. 77,670; Feb. 12.
- Cartun, Paul O., Cleveland Heights, assignor to General Electric Company. Incandescent lamp. 1,722,176; July 23.
- Cartun, Paul O., Cleveland Heights, Ohio, assignor to General Electric Company. Electric incandescent lamp. 1,723,920; Aug. 6.
- Cartwright, Arthur W. (See Ames, L. G., and Cartwright.)
- Cartwright, Burr, assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Hoisting and lowering carrier. 1,717,006; June 11.
- Cartwright, Forest S., Indianapolis, Ind. Automatic gear shift for automobiles. 1,723,542; Aug. 6.
- Cartwright, Frank, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa. Linoleum or similar hard-surface covering. Des. 78,443; May 7.
- Cartwright, Frank, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa. Linoleum or similar hard-surface covering. Des. 78,444; May 7.
- Cartwright, James S. and T. Davey, Winthrop, Mass. Clutch. 1,739,751; Dec. 17.
- Caruso, Frank, Hartford, Conn. Guide for bows for violins. 1,723,266; Aug. 6.
- Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Combined rheostat and switch. 1,697,412; Jan. 1.
- Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy car. 1,711,261; Apr. 30.
- Caruso, Mario, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy railroad-track construction. 1,701,947; Feb. 12.
- Caruso, Mario, Naples, Italy, assignor to The Lionel Corporation, New York, N. Y. Roof for toy cars. 1,704,553; Mar. 5.
- Caruthers, Eugene W., Secane, Pa. Rail joint. 1,707,048; Mar. 26.
- Caruthers, Eugene W., Secane, Pa. Rail joint. 1,735,347; Nov. 12.
- Caruthers, Eugene W., Secane, Pa. Rail splice bar and rail joint. 1,735,348; Nov. 12.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Jar closure. 1,703,573; Feb. 26.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Closure device for bottles and other containers. 1,712,102; May 7.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Bottle cap. 1,712,103; May 7.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Jar closure. 1,713,948; May 21.
- Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Cleaning bottles or other containers. 1,714,075; May 21.
- Carver, C. R., Company. (See Fellows, Walter C., assignor.)
- Carver, Wilfred A., Orlando, Fla. Sash fastener. 1,722,198; July 23.
- Carveth, Hector R., Niagara Falls, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Preparation of sodium perborate. 1,716,874; June 11.
- Carvill, Clarence, Clinton, Mass. Splint. 1,741,011; Dec. 24.
- Carvin, Edward O., Sierra City, Calif. Endless belt for tractors, conveyers, and the like. 1,730,059; Oct. 1.



- Carvin, Edward O., Sierra City, Calif. Tread clearer. 1,740,537; Dec. 24.
- Cary, Henry J., Saukville, Wis. Oil burner. 1,723,677; Aug. 6.
- Cary, Wilson M., jr., assignor to McShane Bell Foundry Company, Baltimore, Md. Ball-cock-valve silencer. 1,703,295; Feb. 26.
- Casale, Luigi, deceased, Rome; M. Casale-Sacchi, administratrix, Rapallo, Genoa, Italy. Production of hydrogen-nitrogen mixtures. 1,716,813; June 11.
- Casale, Luigi, deceased, Rome, by M. Casale-Sacchi, administratrix, Rapallo-Genoa, Italy. Preparation of mixtures of carbon monoxide and hydrogen from hydrocarbons. 1,734,559; Nov. 5.
- Casale-Sacchi, Maria, administratrix. (See Casale, Luigi.)
- Casanova, Abelardo de A., and O. A. Hernandez Posada, Habana, Cuba. Combination furniture. 1,711,373; Apr. 30.
- Casanovas, Josefa, vda. de Tos, Buenos Aires, Argentina. Inviolable and unfillable bottle. 1,707,601; Apr. 2.
- Casazza, William O., Vineland, N. J. Automobile signal. 1,698,671; Jan. 8.
- Casbon, William, assignor to Yagerphone Limited, London, England. Tone arm. 1,713,419; May 14.
- Cascade Fixture Company. (See Gleason, Homer E., assignor.)
- Cascade Fixture Company. (See Seeger, Oscar F., assignor.)
- Case, Arthur B., Wilson, Okla. Automatic shut-off valve. 1,739,207; Dec. 10.
- Case, Arthur F., assignor to The Wellman Seaver Morgan Company, Cleveland, Ohio. Safety stop. 1,730,188; Oct. 1.
- Case, Arthur F., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Safety stop. 1,740,726; Dec. 24.
- Case, Bertram G. (See Kerestes, George A., assignor.)
- Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-reel spool. 1,697,850; Jan. 8.
- Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Operating mechanism for fishing reels. 1,697,851; Jan. 8.
- Case, Francis M., Cleveland Heights, assignor by mesne assignments, to C. O. Harmon, Cleveland, Ohio. Sharpening attachment for disk harrows. 1,727,198; Sept. 3.
- Case, G. Harry, Buffalo, N. Y. Bending machine. 1,742,056; Dec. 31.
- Case, Hiram A., Los Angeles, Calif. Automatic inflater for pneumatic tires. 1,707,508; Apr. 2.
- Case, Hiram A., Los Angeles, Calif. Auxiliary hand throttle. 1,716,814; June 11.
- Case, J. I., Company. (See Brennan, Thomas, assignor.)
- Case, J. I., Company. (See Crawford, John F., assignor.)
- Case, J. I., Company. (See Davies, David P., assignor.)
- Case, J. I., Company. (See Hendricks, Simeon B., assignor.)
- Case, J. I., Company. (See MacGregor, Wallace F., assignor.)
- Case, J. I., Threshing Machine Company. (See Brennan, Thomas, assignor.)
- Case, J. I., Threshing Machine Company. (See Krause, Norman R., assignor.)
- Case, J. I., Threshing Machine Company. (See MacGregor, Wallace F., assignor.)
- Case, J. I., Threshing Machine Company. (See Morrissey, Patrick W., assignor.)
- Case, J. I., Threshing Machine Company. (See Smith, Henry S., assignor.)
- Case, J. I., Threshing Machine Company. (See Traphagen, Harry R., assignor.)
- Case, James W., Schenectady, N. Y., assignor to General Electric Company. Vacuum-pump system. 1,701,359; Feb. 5.
- Case, Joseph, Detroit, Mich. Butter cutter. 1,714,494; May 28.
- Case, Joseph, Detroit, Mich. Butter cutter. 1,714,495; May 28.
- Case, Owen S., Walden, Colo. Cleaning and scouring device. 1,741,223; Dec. 31.
- Case Research Laboratory Incorporated. (See Case, Theodore W., assignor.)
- Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Method and apparatus for translating or transmitting sound waves. 1,718,999; July 2.
- Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Photo-active thermoelectric device. 1,724,872; Aug. 13.
- Caseau, Charles H., New York, N. Y. Shaving cream and making same. 1,709,460; Apr. 16.
- Casella, Secondo L., New York, N. Y., assignor, by mesne assignments, to Bond Electric Corporation, Jersey City, N. J. Dry battery. 1,726,540; Sept. 3.
- Casey, Carl, assignor to Stone Straw Corporation, Washington, D. C. Mandrel for use in machines for making artificial straws and other tubes. 1,738,035; Dec. 3.
- Casey, Frank E., Chicago, Ill., assignor to National Pneumatic Company, New York, N. Y. Door-locking equipment for cabin-type aircraft. 1,701,491; Feb. 12.
- Casey, Frank J., Albion, Nebr. Automobile hoist. 1,702,460; Feb. 19.
- Casey-Hedges Co., The. (See Moses, A. J., and Wright, assignors.)
- Casey, James D., Glenwood, Ala. Extension bolt. 1,706,651; Mar. 26.
- Casey, James F., New York, N. Y. Moving daylight sign. 1,726,470; Aug. 27.
- Casey, Laura M., Cedar Falls, Iowa. Device for producing permanent waves in hair. 1,713,688; May 21.
- Casey, Major J., New Bedford, Mass. Automatic feathering propeller. 1,718,525; June 25.
- Casey, William. (See Smith, Charles, assignor.)
- Casey, William F. J., G. Cavin, Kingston, Ontario, and C. E. Brooks, Montreal, Quebec, Canada, assignors to The Locomotive Finished Materials Company, Atchison, Kans. Locomotive-driving-axle journal box. 1,703,508; Feb. 26.
- Cash, A. W., Company. (See Terry, Charles M., assignor.)
- Cash, A. W., Valve Mfg. Corp. (See Hahn, A. M., and Cash, assignors.)
- Cash, Arthur L. (See Short, C. R., and Cash.)
- Cash, Arthur W. (See Hahn, A. M., and Cash.)
- Cash, James A. (See Miller, J. E., and Cash.)
- Cash, William A. (See Stephens, F. G. C., Anderson, and Cash.)
- Casha, Theodore C., Oakland, and J. T. Harris, Berkeley, Calif. Window screen. 1,730,757; Oct. 8.
- Cashin, W. D., Co. (See Miller, Max P., assignor.)
- Cashin, W. D., Co. (See Webster, Frank M., assignor.)
- Cashman, Andrew A., Haverhill, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,740,454; Dec. 24.
- Cashman, Athol A., Glenwoodville, Alberta, Canada. Door-operating device. 1,716,684; June 11.
- Cashman, Edwin J. (See Hornel, J. C., Corey, and Cashman.)
- Caskey-Dupree Manufacturing Company. (See Schmid, William, assignor.)
- Casper, William L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission circuits. 1,718,946; July 2.
- Cass, L. E., Inc. (See Opremhach, John J., assignor.)
- Cass, Oscar D. et al. (See Nye, Sherman G., assignor.)
- Cassaday, Ernest S. (See Larrabee, B. G., Root, and Cassaday.)
- Cassat, Paul M., Abilene, Kans. Internal-combustion engine. 1,734,201; Nov. 5.
- Cassavant, Albert J., White Bear Lake, Minn. Air-preheating attachment for furnaces. 1,733,862; Oct. 29.
- Cassel, Gunnar B., assignor to A. Löffler, Djursholm, Stockholm, Sweden. Motion-equalizing device. 1,700,881; Feb. 5.
- Cassel, Hjalmar S., Lund, Sweden, assignor to Aktiebolaget Svenska Kåglagerfabriken. Braking arrangement. 1,718,216; June 25.
- Cassell, Joseph L., New York, N. Y. Motor-vehicle signal. 1,725,407; Aug. 6.
- Cassery, Thomas D., Chicago, Ill. Smoke-preventing device for boilers and furnaces. 1,699,832; Jan. 22.
- Cassetty, William M., Jr., W. C. Alford, and F. L. Ross, Nashville, Tenn. Light projector. 1,731,125; Oct. 8.
- Cassidy Company. (See Bauer, H. A., and Cassidy, assignors.)
- Cassidy, George W. (See Bauer, H. A., and Cassidy.)
- Cassidy, Leon S., and M. Remper, Bridgeton, N. J. Amusement railway. 1,740,496; Dec. 24.
- Cassidy, Samuel B., New York, N. Y. Store front. Des 80,107; Dec. 17.
- Cassiere, Alphonse T., Long Beach, Calif. Feed wheel for pneumatic concrete machines. 1,735,233; Nov. 12.
- Casson, Wesley C., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Pressed-steel running board. 1,713,258; May 14.
- Cassullo, Francesco, Verezzi, Italy. Tool for making metallic plates for supporting artificial teeth. 1,704,654; Mar. 5.
- Castagna, Joseph, Brooklyn, N. Y. Chuck. 1,716,718; June 11.
- Castellani, Antoine, assignor to Societe d'Optique et de Mecanique de Haute Precision, Paris, France. Combined altimeter and telemeter. 1,725,617; Aug. 20.
- Castellano, Philip, and J. Augello, New York, N. Y. Road-making machine. 1,712,549; May 14.
- Caster, John E., assignor to The Cincinnati Grinders, Incorporated, Cincinnati, Ohio. The production of spherical articles. 1,707,708; Apr. 2.
- Caster, John E., assignor to The Cincinnati Grinders, Incorporated, Cincinnati, Ohio. Centerless grinding. 1,733,863; Oct. 29.
- Casteran, Juan V. (See Gayraud, J., and Casteran.)
- Castiglia, Biagio, Bronx, N. Y. Headlight-controlling device. 1,736,577; Nov. 19.
- Castleman, Robert A., jr., Falls Church, Va. Logarithmic and semilogarithmic coordinator. 1,713,025; May 14.
- Casto, Lloyd V., assignor to Oxford Varnish Corporation, Detroit, Mich. Method of and apparatus for making transfer rolls. 1,720,719; July 16.
- Castorina, Vincenzo, West New York, N. J. Fishing apparatus. 1,710,569; Apr. 23.
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for incorporating cords in rubber sheets. 1,714,848; May 28.
- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for forming weltless cord fabric. 1,723,501; Aug. 6.
- Castricum, Martin, and P. L. Butterfield, Springfield, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Automatic cutting device. 1,730,560; Oct. 8.



- Castricum, Martin, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bias cutter. 1,737,146; Nov. 26.
- Castriofis, Alexander C., New York, N. Y. Detachable antiglare shield for headgear. 1,725,340; Aug. 20.
- Cast-Rite Co. (See Stephens, Percy W., assignor.)
- Castro, Edward. (See Castro, Jean and E.)
- Castro, Frank L., Brooklyn, N. Y., assignor to A. Levy, doing business as United Metal Goods Mfg. Co. Clock case. Des. 78,007; Mar. 19.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,390; Jan. 8.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,391; Jan. 8.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,392; Jan. 8.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,393; Jan. 8.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,532; Jan. 22.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,671; Feb. 12.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,672; Feb. 12.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,740; Feb. 19.
- Castro, Jean, Brooklyn, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,741; Feb. 19.
- Castro, Jean and E., assignors to Lesher, Whitman & Co., Inc., New York, N. Y. Textile fabric. Des. 78,266; Apr. 16.
- Castro, Manuel, Canton, Ohio. Hook for aircraft cargo-handling apparatus. 1,729,029; Sept. 24.
- Castro, Manuel A., San Francisco, assignor of one-half to B. Brodnax, Berkeley, Calif. Traffic signal. 1,734,431; Nov. 5.
- Cast Steel Devices Company, The. (See Black, William G., assignor.)
- Caswell, Arthur D., Minneapolis, Minn. Target carrier. 1,727,272; Sept. 3.
- Caswell, Irving A., Minneapolis, Minn. Weed and grass burning device. 1,707,845; Apr. 2.
- Cataline, Benton. (See Hertzlich, F. W., and Cataline.)
- Cataline, Benton, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich. Brake layout. 1,712,949; May 14.
- Catalytic Chemical Company. (See Ackerman, Albert H., assignor.)
- Catelli Macaroni Products Corporation Limited. (See Bienvenu, Frank A., assignor.)
- Cater, William H., Chicago, Ill. Filter for well screens. 1,710,471; Apr. 23.
- Cater, William H., Chicago, Ill. Derrick-frame construction. 1,730,995; Oct. 8.
- Caterpillar Tractor Co. (See Best, Clarence L., assignor.)
- Cathcart, Cuthbert C., assignor to Kalamazoo Stove Company, Kalamazoo, Mich. Grate for furnaces or boilers. 1,704,935; Mar. 12.
- Cathcart, Harry G., Cleveland, Ohio. Bottle carrier. 1,726,471; Aug. 27.
- Cather, Charles E., Worcester, assignor to United States Envelope Company Springfield, Mass. Two-compartment envelope. 1,738,562; Dec. 10.
- Cathrill, Jack, Los Angeles, Calif. Headlight. 1,716,875; June 11.
- Catignani, Francesco, Indianapolis, Pa. Chock for railway cars. 1,741,613; Dec. 31.
- Catland, Raymond O., Los Angeles, Calif. Forming cutters. 1,709,606; Apr. 16.
- Catlett, Charles, Staunton, Va. Manufacture and use of oxy-salt composition. 1,726,472; Aug. 27.
- Catlin, De Forest B., Boston, Mass. Diathermic apparatus for treating certain diseases. 1,723,602; Aug. 6.
- Catlin, J. E., et al. (See Bright, Barton R., assignor.)
- Cato, Joseph L., assignor to G. Elias & Bros., Inc., Buffalo, N. Y. Airplane fuselage. 1,718,410; June 25.
- Caton, Homer, et al. (See Soss, Peter H., assignor.)
- Caton, Maurice L., Quebec, Canada, assignor to The Barrett Company. Roofing strip. 1,741,403; Dec. 31.
- Catron Manufacturing Company. (See Risser, Ross E., assignor.)
- Cauchaner, David, Buenos Aires, Argentina. Construction of houses. 1,703,060; Feb. 19.
- Cauchy, Urbain, Tourcoing, France. Mud guard for vehicles. 1,709,060; Apr. 16.
- Cauffman, Leo, Rochester, N. Y. Golf bag. 1,717,959; June 18.
- Caufield, Jacob S. (See Smith, F. L., Caufield, and Peterson.)
- Caufield, Norman H., Victoria, assignor to Caufield Stooker Company Limited, British Columbia, Canada. Stooking machine. 1,697,000; Jan. 1.
- Caufield Stooker Company Limited. (See Caufield, Norman H., assignor.)
- Caugherty, William E., Natrona, and C. J. Stroble, Tarentum, Pa., assignors to Allegheny Steel Company. Annealing silicon steel sheets. 1,706,438; Mar. 25.
- Caughey, Reed J., Schnectady, N. Y., assignor to General Electric Company. Emergency governing mechanism for elastic-fluid turbines and the like. 1,728,042; Sept. 10.
- Caughlan, Martha W., Oakland, Calif. Reflecting surface. 1,735,377; Nov. 12.
- Caulkins, Theodore P., Chicago, Ill. Automatic drilling machine. 1,720,033; July 9.
- Caunce, Albert E. (See Pickard, R. H., Lloyd, and Caunce.)
- Caunitz, Walter H., New York, N. Y. Making shirts. 1,719,099; July 2.
- Causan, Laurent N., Suresnes, France, assignor to Westinghouse Electric & Manufacturing Company. Internal-combustion engine. 1,701,360; Feb. 5.
- Causey, Guy M., Salem, Oreg., and M. E. Miller, Washington, D. C.; said Miller assignor to said Causey. Control mechanism for pipe cutters and threaders. 1,702,336; Feb. 19.
- Cautley, John R., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake drum. 1,704,033; Mar. 5.
- Cautley, John R., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-applying connection. 1,705,853; Mar. 19.
- Cauwenberg, Winfred J. (See Much, W. M., and Cauwenberg.)
- Cavalli, Italo, Padua, Italy. Desulphurization of pyrite cinders. 1,703,027; Feb. 19.
- Cavalli, Italo, Padua, Italy. Extraction of mercury from its ores and from residues of their roasting. 1,731,699; Oct. 15.
- Cavallier, Jean, Nancy, assignor to Societe Anonyme des Hauts-Fourneaux et Fonderies de Pont-a-Mousson, Pont-a-Mousson, Meurthe-et-Moselle, France. Compressor. 1,718,112; June 18.
- Cavanagh, John F., assignor to Apco Manufacturing Company, Providence, R. I. Current rectifier. 1,729,326; Sept. 24.
- Cavanaugh, William M., New York, N. Y. Leather manufacture. 1,713,113; May 14.
- Cave, Henry, C. P. Manning, Hartford, and E. S. Sargent, Windsor, assignors to The Fuller Brush Company, Hartford, Conn. Cleaning implement. 1,724,453; Aug. 13.
- Cave, Henry, Hartford, and W. H. Rudolph, West Hartford, Conn. Cleaning implement. 1,703,086; Feb. 26.
- Caverly, Harry C., East Orange, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,724,905; Aug. 20.
- Cavill, Claude H., Jackson, Mich. Punching machine. 1,728,475; Sept. 17.
- Cavin, Gustave. (See Casey, W. F. J., Cavin, and Brooks.)
- Cawley, Aloysius J., Pittston, Pa. Sound-recording apparatus. 1,698,536; Jan. 8.
- Cawley, Aloysius J., Pittston, Pa. Picture negative. 1,710,677; Apr. 23.
- Cawley, George, Montclair, N. J., assignor to The Permutit Company, New York, N. Y. Measuring pump. 1,720,999; July 16.
- Cawley, Michael J., assignor to M. M. Daniels, New York, N. Y. Switch device for alarm circuits. 1,707,784; Apr. 2.
- Cawley, Michael J., assignor to M. M. Daniels, New York, N. Y. Burglar-alarm device. 1,708,661; Apr. 9.
- Cawood, Clarence A., Big Stone Gap, Va., assignor to The Electric Railway Equipment Company, Cincinnati, Ohio. Protective device for trolley-wire hangers. 1,729,656; Oct. 1.
- Cawthon, John W. (See Pollock, J. A., and Cawthon.)
- Cayer, Theodore E., Taunton, Mass., assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 79,919; Nov. 19.
- Cease, William A. (See Pettit, R. L., and Cease.)
- Cecilio, John, Boonton, N. J. Curling pad. 1,701,459; Feb. 5.
- Cedarbrook Knitting Company. (See Flavell, A. T., and Holland, assignors.)
- Cedeño, Hermógenes L., Santiago, Cuba. Talking machine. 1,722,897; July 30.
- Cederlund, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tension for loom shuttles. 1,722,898; July 30.
- Cederlund, Albert, and A. S. Hutchins, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Self-threading shuttle. 1,723,921; Aug. 6.
- Cederquist, Milton O., Buffalo, N. Y. Shaking and screening apparatus. 1,707,251; Apr. 2.
- Ceepe, Henry, Cleveland, Ohio. Casing hook. 1,714,076; May 21.
- Ceffaratti, John. (See Dinardo, G., and Ceffaratti.)
- Celander, Philip A., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Stove. Des. 78,088; Mar. 26.
- Celander, Philip A., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Stove door. Des. 78,377; Apr. 30.
- Celanese Corporation. (See Ellis, George H., assignor.)
- Celanese Corporation of America. (See Cameron, W. M., and Schneider, assignors.)
- Celanese Corporation of America. (See Cope, Ernest C., assignor.)



- Celanese Corporation of America. (See Dreyfus, Camille, assignor.)
- Celanese Corporation of America. (See Dreyfus, C., Dort, and Platt, assignors.)
- Celanese Corporation of America. (See Dreyfus, C., and Platt, assignors.)
- Celanese Corporation of America. (See Dreyfus, C., and Schneider, assignors.)
- Celanese Corporation of America. (See Dreyfus, H., and Haney, assignors.)
- Celanese Corporation of America. (See Ellis, George H., assignor.)
- Celanese Corporation of America. (See Ewing, H., and Ryley, assignors.)
- Celanese Corporation of America. (See Hall, Archibald J., assignor.)
- Celanese Corporation of America. (See Jones, J., and Derwin, assignors.)
- Celanese Corporation of America. (See Kinsella, E., and Young, assignors.)
- Celanese Corporation of America. (See Martin, Herbert E., assignor.)
- Celanese Corporation of America. (See Palmer, Charles W., assignor.)
- Celanese Corporation of America. (See Palmer, C. W., and Whitehead, assignors.)
- Celanese Corporation of America. (See Rutstein, Leo, assignor.)
- Celanese Corporation of America. (See Ryley, Charles F., assignor.)
- Celanese Corporation of America. (See Ryley, C. F., Palmer, and Welch, assignors.)
- Celanese Corporation of America. (See Whitehead, William, assignor.)
- Celanese Corporation of America. (See Woodman, Thomas C., assignor.)
- Celanese Corporation of America. (See Woodman, T. C., and Dickie, assignors.)
- Elastic Corporation, The. (See Lovell, Stanley P., assignor.)
- Elastic Corporation, The. (See Lund, W. J., and Mellerio, assignors.)
- Celebritone Limited. (See Green, Harold, assignor.)
- Celeste, Rosario, New York, N. Y. Base for display stands. Des. 78,373; Apr. 30.
- Celite Company, The. (See Stockton, McKinley, assignor.)
- Celite Company, The. (See Zoul, Charles V., assignor.)
- Cellophane Printing Corporation. (See Gurwick, Irving, assignor.)
- Celluloid Corporation. (See Buttrick, W. M., and Piperoux, assignors.)
- Celluloid Corporation. (See Frankl, Paul T., assignor.)
- Celluloid Corporation. (See Piperoux, Rene P., assignor.)
- Celulosa Hemmer Valet, Sociedad Anonima. (See Valet, Ernest C. H., assignor.)
- Cement Gun Contracting Company. (See Collier, B. C., Lerche, and Evans, assignors.)
- Cement Gun Company. (See Crom, J. M., and Linberg, assignors.)
- Cement Gun Contracting Company. (See Farnham, R., and Collier, assignors.)
- Centenaro, Esteban. (See Mataresse, A., and Centenaro.)
- Centeno, V., Melchor, Cambridge, Mass. Photooscillator. 1,702,195; Feb. 12.
- Central Alloy Steel Corporation. (See Coryell, William C., assignor.)
- Central Alloy Steel Corporation. (See Dougherty, Eugene R., assignor.)
- Central Alloy Steel Corporation. (See Frahm, Carl A., assignor.)
- Central Alloy Steel Corporation. (See Moyer, Fredellia H., assignor.)
- Central Alloy Steel Corporation. (See Newton, James E., assignor.)
- Central Alloy Steel Corporation. (See Orr, William S., assignor.)
- Central Alloy Steel Corporation. (See Smith, Earl C., assignor.)
- Central Alloy Steel Corporation. (See Treverton, Stephen, assignor.)
- Central Brass and Fixture Company, The. (See McCloud, Edward H., assignor.)
- Central Contracting & Engineering Co. (See Reading, James J., assignor.)
- Central Electric Tool Company. (See Chapman, George T., assignor.)
- Central Electric Tool Company. (See Fox, Harold E., assignor.)
- Central Electric Tool Company. (See Missien, Edward J., assignor.)
- Central Electric Tool Company. (See Weyandt, Carl S., assignor.)
- Central Electric Tool Company. (See Weyandt, C. S., and Fox, assignors.)
- Central Foundry Company, The. (See Burgess, Walter E., assignor.)
- Central Furniture Frame Co. Inc. (See Stoll, Charles, assignor.)
- Central Glass Works. (See Harpfer, Fred A., assignor.)
- Central Mine Equipment Company. (See Ormsby, Erle, assignor.)
- Central National Bank of Cleveland. (See McKee, Willis, assignor.)
- Central Ohio Steel Products Company. (See Eisenhut, Ernest, assignor.)
- Central Ohio Steel Products Company, The. (See Robinson, Dighton A., assignor.)
- Central Radio Laboratories. (See Stockle, Erwin R., assignor.)
- Central Railway Signal Company. (See Wedger, Walter L., assignor.)
- Central Scientific Company. (See Bandoly, Erich, assignor.)
- Central Scientific Company. (See Bandoly, E., and Sachse, assignors.)
- Central Scientific Company. (See Sherrill, Richard M., assignor.)
- Central Stamping Company, The. (See Bonnell, William P., sr., assignor.)
- Central Tube Company. (See Laughlin, Alexander, jr., assignor.)
- Central Valve Mfg. Co. (See Appleton, Joseph H., assignor.)
- Centre Lighting Fixture Mfg. Co., The. (See Novin, Joseph, assignor.)
- Centrifix Corporation. (See Hawley, Charles G., assignor.)
- Centrifugal Castings Limited. (See Hurst, J. E., and Ball, assignors.)
- Centrifugal Pipe Corporation. (See Bell, John C., assignor.)
- Centrifugal Pipe Corporation. (See Gillhausen, Werner, assignor.)
- Centrifugal Pipe Corporation. (See Pardun, C., and Voetter, assignors.)
- Cependa, Wasy. (See Towsty, John, assignor.)
- Cereghino, Joseph A., assignor to National Labeling Machine Company, Inc., Los Angeles, Calif. Labeling packages and machine therefor. 1,722,240; July 23.
- Cerivol, Albert, Barking, assignor of one-fifth to J. A. Fisher, one-fifth to F. W. Shears, one-fifth to E. Lumsden, and one-fifth to C. Raymond, London, England. Blade for propellers, ventilating fans, and the like. 1,705,438; Mar. 12.
- Ceriani, Natale, Beaver Falls, Pa. Stationary washtub. 1,725,254; Aug. 20.
- Cerico, Dominick, Yonkers, N. Y. Electric switch for automobile signals. 1,696,902; Jan. 1.
- Cerini, Leonardo, Castellanza, Milan, Italy. Apparatus for the purification of impure solutions of caustic soda and the like on osmotic principles. 1,719,754; July 2.
- Cermak, Anthony C., insane, by M. A. Cermak, guardian, Chagrin Falls, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Brush supporting and adjusting means for vacuum cleaners. 1,734,895; Nov. 5.
- Cermak, Mabel A., guardian. (See Cermak, Anthony C.)
- Cerny, Karl, Herzogenburg, Austria. Flying machine with flapping wings. 1,726,342; Aug. 27.
- Certain-teed Products Corporation. (See Hoggatt, Gilbert A., assignor.)
- Certain-teed Products Corporation. (See Knowlton, Theodore E., assignor.)
- Certia, Charlotte S., Fort Wayne, Ind. Garment. 1,709,204; Apr. 16.
- Certo Corporation. (See Bender, William A., assignor.)
- Cerva, Stephen E., Latrobe, Pa. Bearing for spool sheaves and rollers. 1,709,461; Apr. 16.
- Cervelli, Blanche, San Francisco, Calif. Facial pack. 1,715,740; June 4.
- Cesa, Joseph M., Antioch, Calif. Portable open fireplace and heater. 1,697,225; Jan. 1.
- Cesander, Frederic H. (See Johnson, W., and Cesander.)
- Cevasco, Cavignaro & Ambrette, Inc. (See Ambrette, Conrad, assignor.)
- Cézar, Rafael de O. (See Grassi, A. A., and Cézar.)
- Chabot, Ephraim H., assignor to Nashua Gummed & Coated Paper Company, Nashua, N. H. Strip-serving mechanism. 1,732,635; Oct. 22.
- Chace, Hilma B., et al., executor. (See Chace, William M.)
- Chace, John E., Adamsdale, Mass. Bottle closure. 1,733,939; Oct. 29.
- Chace, W. M., Valve Company. (See Chace, William M., assignor.)
- Chace, William M., deceased; A. H. Lindley, A. Cooper, and H. B. Chace, executors, assignors to W. M. Chace Valve Company, Detroit, Mich. Thermostatic element. 1,729,245; Sept. 24.
- Chadbourne, Weston F., Franklin, Mass. Cross-chain clip. 1,704,171; Mar. 5.
- Chadbourne, Weston F., Franklin, Mass. Cross-chain snap-on clip. 1,704,172; Mar. 5.
- Chadburn, William R., London, England, assignor to The De Laval Separator Company, New York, N. Y. Apparatus and process for preventing contamination of centrifugally-purified liquids. 1,723,329; Aug. 6.
- Chadderdon, Lewis W., Bristow, Okla. Swivel socket. 1,706,481; Mar. 26.
- Chadirjian, Malkon, Corona, and O. Chadirjian, Elmhurst, N. Y. Tent. 1,699,094; Jan. 15.
- Chadirjian, Oscar. (See Chadirjian, M. and O.)
- Chadwick, Fletcher, assignor to Cords Limited, Hebden Bridge, England. Yarn-doubling frame. 1,710,656; Apr. 23.
- Chadwick, Frank D., Ottawa, Ill. Automatic sand-drying equipment. 1,719,259; July 2.
- Chadwick, Lee S., Shaker Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Fuel system for oil burners. 1,711,457; Apr. 30.



- Chadwick, Lee S., Shaker Heights Village, assignor to Perfection Stove Company, Cleveland, Ohio. Thermostatic oil burner. 1,715,334; May 28.
- Chadwick, Lee S., Shaker Heights, and M. Resek, Cleveland Heights, assignors to Perfection Stove Company, Cleveland, Ohio. Refrigerator. Des. 77,812; Feb. 26.
- Chadwick, Lee S., Shaker Heights, and M. Resek, Cleveland Heights, assignors to Perfection Stove Company, Cleveland, Ohio. Liquid-fuel stove. 1,701,460; Feb. 5.
- Chadwick, Lee S., Shaker Heights Village, and M. Resek, East Cleveland, assignors to Perfection Stove Company, Cleveland, Ohio. Water heating and storage apparatus. 1,740,068; Dec. 17.
- Chadwick, Lee S., Shaker Heights Village, M. Resek, Cleveland Heights, and J. A. Dahlstrom, East Cleveland, assignors to Perfection Stove Co., Cleveland, Ohio. Automatic control mechanism for dampers and the like. 1,698,989; Jan. 15.
- Chadwick, Lee S., Shaker Heights, M. Resek, Cleveland Heights, and J. A. Dahlstrom, East Cleveland, assignors to Perfection Stove Company, Cleveland, Ohio. Liquid-level-control apparatus. 1,732,200; Oct. 15.
- Chadwick, Thomas H., Arnold, Pa. Flush tank. 1,722,200; July 23.
- Chaffee, Alfred M., Oxford, Mass. Safety appliance for garment pockets. 1,699,778; Jan. 22.
- Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Sash holder. 1,701,140; Feb. 5.
- Chaffee, Edward F., Syracuse, N. Y., assignor to The O. M. Edwards Co. Inc., Syracuse, N. Y. Window-sash holder. 1,713,026; May 14.
- Chaffee, Edward F., assignor to The O. M. Edwards Co. Inc., Syracuse, N. Y. Clamping device. 1,715,990; June 4.
- Chaffee, Emory L., Belmont, Mass., assignor to J. H. Hammond, Jr. Multichannel radio system and method of radio reception. 1,717,662; June 18.
- Chagnaud, André, assignor to Societe des Cusines Chimiques Rhone-Poulenc, Paris, France. Recording device for measuring instruments. 1,738,563; Dec. 10.
- Chain Belt Company. (See Ball, Charles F., assignor.)
- Chain Belt Company. (See Draeger, Lloyd H., assignor.)
- Chain Belt Company. (See Hamren, Eric O., assignor.)
- Chain Belt Company. (See Harvey, John L., assignor.)
- Chain Belt Company. (See Merwin, John C., assignor.)
- Chain Belt Company. (See Shafer, Samuel Jr., assignor.)
- Chain Belt Company. (See Thuerman, Wilfred J., assignor.)
- Chain Belt Company. (See Welsler, Brinton, assignor.)
- Chain Products Company, The. (See Hodell, Frederick G., assignor.)
- Chain Products Company, The. (See Olmstead, Frederick A., assignor.)
- Chain Saw Corporation. (See Bens, Samuel J., assignor.)
- Chaligné, René G., Paris, France. Swimming apparatus. 1,728,103; Sept. 10.
- Chalker, Albert R., and W. G. Bailey, Pittsburgh, Pa., assignors, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y. Locomotive stoker. 1,732,926; Oct. 22.
- Challen, Albert, et al. (See Bennett, William, assignor.)
- Challenge Machinery Company, The. (See Barney, Freeman, assignor.)
- Challenge Refrigerator Company. (See Hillman, Herbert H., assignor.)
- Challet, Etienne, Geneva, Switzerland, assignor to M. A. Borel, Pontarlier, France. Manufacture of rectangular tubes. 1,713,742; May 21.
- Challet, Etienne, Geneva, Switzerland, assignor to M. A. Borel, Pontarlier, France. Truing up the measuring jaws of sliding calipers. 1,713,743; May 21.
- Challis, William, Amersham Common, and C. H. W. Edmonds, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Light signal for railways and the like. 1,703,224; Feb. 26.
- Chalmers, Albert H., Birmingham, Ala. Coke-oven-pusher control. 1,729,327; Sept. 24.
- Chalmers, George W., Summit, Ill., assignor to International Patents Development Company, Wilmington, Del. Capping machine. 1,715,352; June 4.
- Chalmers, John, Montreal, Quebec, Canada. Radiator. 1,732,258; Oct. 22.
- Chalmers, William, and A. E. Clauson, Pasadena, Calif. Carpenter's tool. 1,733,775; Oct. 29.
- Chaloff, Feodor M., et al. (See Boldireff, W. E., and Korukin, assignors.)
- Chamales, Gus, Enid, Okla. Peanut heater. 1,712,330; May 7.
- Chamberlain, Alfred J., Wauwatosa, Wis. Container. 1,706,522; Mar. 26.
- Chamberlain, Charles H., and C. Tschudin, Trenton, N. J. Porcelain shelf bracket. 1,723,408; Aug. 6.
- Chamberlain, Clarence K., Chicago, Ill. Tie press. 1,721,656; July 23.
- Chamberlain, Clarence M., Denver, Colo. Hinge joint for connecting longitudinal members. 1,724,694; Aug. 13.
- Chamberlain, Elizabeth G., executrix. (See Chamberlain, George E.)
- Chamberlain, Frank B., Columbus, Ohio. Fountain-pen filler. 1,700,401; Jan. 29.
- Chamberlain, George D., Ashland, Ky., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Cleaning of metals, etc. 1,719,167; July 2.
- Chamberlain, George D., Ashland, Ky., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Pickling of metals, etc. 1,719,168; July 2.
- Chamberlain, George D., Ashland, Ky., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Pickling and cleaning of metal. 1,719,649; July 2.
- Chamberlain, George D., Ashland, Ky., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Pickling of metals. 1,719,650; July 2.
- Chamberlain, George E., deceased, Decatur, Ill.; E. G. Chamberlain, executrix. Grain drier. 1,716,876; June 11.
- Chamberlain, Guy C. (See McCabe, E. B., and Chamberlain.)
- Chamberlain, Henry, Los Angeles, Calif. Utilizing light metal scrap. 1,725,780; Aug. 27.
- Chamberlain, Martin T., Joliet, Ill. Wall clip. 1,724,394; Aug. 13.
- Chamberlain, Robert B., Plainfield, N. J., assignor to Vegetable Products, Inc. Food product and producing the same. 1,710,403; Apr. 23.
- Chamberlain, William A., Loughton, England. Petrol-air-gas generator. 1,720,539; July 9.
- Chamberlain, William R., Mount Vernon, N. Y. Lamp fixture. Des. 73,006; Mar. 19.
- Chamberlain, William R., Mount Vernon, N. Y. Detachable fastener. 1,724,003; Aug. 13.
- Chamberlain, Benjamin D., assignor to Eastman Kodak Company, Rochester, N. Y. Roll holder for photographic cameras. 1,704,789; Mar. 12.
- Chamberlain, Benjamin D., assignor to Eastman Kodak Company, Rochester, N. Y. Automatically-focusing enlarging camera. 1,716,517; June 11.
- Chamberlain, Ing, assignor of thirty per cent to W. Katz and A. Kuriansky, St. Louis, Mo. Attachment for hats or caps. 1,742,132; Dec. 31.
- Chamberlain Metal Weather Strip Company. (See Smith, H. E., and Julien, assignors.)
- Chambers, Gayman. (See Coss, D., and Chambers.)
- Chambers, Peter, assignor to Security Manufacturing Company, Los Angeles, Calif. Apparatus for carburizing. 1,709,247; Apr. 16.
- Chambers, Reuben A., Jackson, Miss. Spotlight control. 1,702,594; Feb. 19.
- Chambers, Russell G., Flint, assignor to General Motors Corporation, Detroit, Mich. Windshield stanchion joint. 1,734,005; Oct. 29.
- Chambers, Samuel B., Chicago, Ill. Treating dairy products. 1,735,313; Nov. 12.
- Chambersburg Engineering Company. (See Derbyshire, William H., Jr., assignor.)
- Chambon, Louis. (See Corse, Gaston, assignor.)
- Chamness, Gilbert E. (See Chamness, Grover C. and G. E., Kane, and Keith.)
- Chamness, Grover C. and G. E., R. L. Kane, Herrin, and H. M. Keith, West Frankfort, Ill. Dispensing apparatus. 1,722,199; July 23.
- Champ Electric Company. (See Chandler, Daniel L., assignor.)
- Champion, Albert. (See Zubaty, J., and Champion.)
- Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Terminal clip. 1,705,045; Mar. 12.
- Champion, Albert, deceased, by B. W. De Guichard, Flint, and Detroit Trust Company, Detroit, executors, assignors to A C Spark Plug Company, Flint, Mich. Illuminated instrument panel. 1,727,632; Sept. 10.
- Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. By-pass and filter connection. 1,727,808; Sept. 10.
- Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Mounting for oil filters. 1,731,209; Oct. 8.
- Champion, Albert, deceased, by B. W. de Guichard, Flint, and Detroit Trust Company, Detroit, executors, assignor to A C Spark Plug Company, Flint, Mich. Instrument panel. 1,738,639; Dec. 10.
- Champion, C. V., & Company. (See Chandler, Frank H., assignor.)
- Champion Coated Paper Company, The. (See Bradner, Donald B., assignor.)
- Champion Crated Paper Company, The. (See Bradner, Donald B., assignor.)
- Champion Fibre Company. (See Helder, Horatio A., assignor.)
- Champion Folding Furniture Company. (See Adkins, F. A., and Harter, assignors.)
- Champion Folding Furniture Company. (See Harter, Noah S., assignor.)
- Champion, John W., Evanston, assignor to Reliance Manufacturing Company, Chicago, Ill. Shirt. 1,737,875; Dec. 3.
- Champion Machine & Forging Company, The. (See Greve, Louis W., assignor.)
- Champion No-Leak Paper Dish Company, The. (See Fitch, Raymond, assignor.)
- Champion Porcelain Company. (See Jeffery, J. A., and Riddle, assignors.)
- Champion Spring Company, The. (See Lanzey, Frank L., assignor.)
- Champion Switch Company. (See Renke, Robert, assignor.)
- Champion, William L., Muskogee, Okla., assignor to Muskogee Iron Works. Axle bearing. 1,739,439; Dec. 10.
- Champion, Franklin J., Dalton, Mass., assignor to General Electric Company. Automatic regulating system. 1,740,332; Dec. 17.



- Champlin, William H., Rochester, N. H. Box. 1,737,186; Nov. 26.
- Chanard, Auguste, Rueil, France. Carburetor. 1,700,921; Feb. 5.
- Chanard, Auguste, Rueil, France. Forced-draft device for locomotives. 1,724,641; Aug. 13.
- Chance, A. Bishop. (See Fisher, Wager, assignor.)
- Chance, Albert B., Centralia, Mo. Earth anchor. 1,714,766; May 28.
- Chance, Henry M., Philadelphia, Pa. Method and apparatus for separating materials of different specific gravities. 1,730,123; Oct. 1.
- Chance, Henry M., Philadelphia, Pa. Apparatus for separating materials of different specific gravities. 1,730,189; Oct. 1.
- Chance, John E., Adamsdale, Mass. Bottle closure. 1,697,716; Jan. 1.
- Chance, Lawrence E., assignor of one-half to A. Miltenberger, St. Louis, Mo. Electric time switch. 1,704,459; Mar. 5.
- Chance, Lawrence E., assignor of one-half to A. Miltenberger, St. Louis, Mo. Sign-flasher switch. 1,704,461; Mar. 5.
- Chance, Thomas M., Merion, Pa. Burning fuel. 1,716,815; June 11.
- Chancellor, Victor F. and S. L. Calvert, Bristow, Okla. Apparatus for separating gas from oil and water. 1,732,499; Oct. 22.
- Chaney, Otis D., Los Angeles, Calif. Label holder. 1,711,170; Apr. 30.
- Chaney, James H., Augusta, Ga., assignor, by mesne assignments, to Reclamation Service Company. Reforming coil springs. 1,731,763; Oct. 15.
- Chandee, George M., Baltimore, Md. Sanitary receptacle. 1,703,509; Feb. 26.
- Chandee, William H., Washington, D. C. Illusion device. 1,699,345; Jan. 15.
- Chandler, Bert C., Mount Lowe, Calif. Windshield wiper. 1,715,991; June 4.
- Chandler, Charles O., et al. (See Higley, Frank R., assignor.)
- Chandler, Daniel L., assignor to Champ Electric Company, Boston, Mass. Electric bread toaster. 1,734,611; Nov. 5.
- Chandler, David G. (See Svendsen, R. T., and Chandler.)
- Chandler, Edward F., Brooklyn, N. Y. Apparatus for atomizing and spraying. 1,713,259; May 14.
- Chandler, Edward F., Brooklyn, N. Y. Spraying nozzle. 1,713,260; May 14.
- Chandler, Frank H., assignor to C. V. Champion & Company, Danville, Ill. Toasting or cooking apparatus. 1,697,754; Jan. 1.
- Chandler, Frank H. (See Gruenewald, E. J., and Chandler.)
- Chandler, Harry A., Sioux City, Iowa. Convertible vehicle body. 1,713,949; May 21.
- Chandler, Harry R., assignor to The Glacifer Corporation, Kennett Square, Pa. Shipping container. 1,709,520; Apr. 16.
- Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Current collector. 1,706,652; Mar. 26.
- Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Current collector. 1,706,653; Mar. 26.
- Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Electric-circuit breaker. 1,720,263; July 9.
- Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Supporting device for trolley wires and other conductors. 1,730,406; Oct. 8.
- Chandler, Leonard D., North Abington, Mass. Signal device for fire-sprinkler and other systems. 1,702,930; Feb. 19.
- Chandler, Milford G., Chicago, assignor, by mesne assignments, to C. B. Camp, trustee, Oak Park, Ill. Carburetor. 1,712,293; May 7.
- Chandler, Milton E., assignor to Stromberg Motor Devices Co., Chicago, Ill. Filter structure. 1,717,875; June 18.
- Chandler Motor Car Company. (See Walker, Hiram, assignor.)
- Chandler and Price Company, The. (See Honigmann, Hans, assignor.)
- Chandler and Price Company, The. (See Root, Charles F., assignor.)
- Chandler, Robert W., assignor to Graton & Knight Company, Worcester, Mass. Loom picker. 1,719,873; July 9.
- Chandler, Thomas H., Lawrence, Kans. Combined window shade and awning. 1,710,920; Apr. 30.
- Chandler, Tommie B., Bakersfield, Calif. Combination wall table and ironing board. 1,741,094; Dec. 24.
- Chaney, John L., Springfield, Ohio. Method of and apparatus for sealing thermometer tubes. 1,739,208; Dec. 10.
- Chaney Manufacturing Company, The. (See Herold, Walter F., assignor.)
- Chanier, Gaston L. (See Adatte, A. L., and Chanier.)
- Chanier, Gaston L., Jersey City, and A. L. Adatte, Boundbrook, N. J., assignors to Pathe Exchange, Inc., New York, N. Y. Automatic loop-forming device. 1,714,461; May 21.
- Chankalian, James M. (See Spalding, A. H., and Chankalian.)
- Channell, Charles A., assignor to O-Cedar Corporation, Chicago, Ill. Mop. 1,708,052; Apr. 9.
- Channell, Charles A., assignor to O-Cedar Corp'n., Chicago, Ill. Automatic mop-pad-making machine. 1,730,968; Oct. 8.
- Channell, James W., South Gate, Calif. Splicing machine. 1,715,641; June 4.
- Channell, James W., Southgate, Calif., assignor to American Telephone and Telegraph Company. Machine for producing insulating sleeves. 1,737,640; Dec. 3.
- Channing, Alfred W., Inc. (See Alderdice, Walter, assignor.)
- Channing, R. H., jr., agent. (See Koenig, H. T., Fischer, Haffey, and Clappitt, assignors.)
- Channing, R. H., agent. (See Lowe, Sherwin P., assignor.)
- Channing, R. H., jr., agent. (See Lowe, S. P., and Koenig, assignors.)
- Channing, Walter. (See Hood, Ralph O., assignor.)
- Chantemerle, Joseph L., Bronx, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Visual signal. 1,715,278; May 28.
- Chanter, Arthur J., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,710,146; Apr. 23.
- Chanter, Arthur J., Aldwych, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-service observing system. 1,730,969; Oct. 8.
- Chapelon, André, Levallois, France. Steam-boiler draft-increasing device. 1,699,134; Jan. 15.
- Chaperlo, Frank L., and J. W. Zengerle, Cleveland, Ohio. Indicating caliper. 1,725,898; Aug. 27.
- Chapin, Albert J., Glendale, Calif., assignor to The Westinghouse Air Brake Co., Wilmerding, Pa. Vehicle wheel and brake. 1,698,011; Jan. 8.
- Chapin, Chauncey C., deceased, Sterling, by The Colorado National Bank, executor, Denver, Colo. Process and apparatus for increasing the strength of radiostentials. 1,726,806; Sept. 3.
- Chapin, Edward S., Plainfield, N. J., and A. H. Jacoby, Ashby, Mass., assignors to The Deltex Company. Treating fabrics. 1,738,946; Dec. 10.
- Chapin, Edward S., Plainfield, N. J., and A. H. Jacoby, Ashby, Mass., assignors to The Deltex Company. Apparatus for treating fabrics. 1,738,947; Dec. 10.
- Chapin, Henry S., Truthville, N. Y. Vehicle spring. 1,739,386; Dec. 10.
- Chapin, Selden. (See Bucknell, H., jr., Chapin, and McKelvey.)
- Chapin-Skeleton Corporation. (See Baker, Frank E., assignor.)
- Chapin, William R., Indianapolis, Ind. Metal cement. 1,699,346; Jan. 15.
- Chapin, William R., assignor to E. C. Atkins & Company, Indianapolis, Ind. Fast-speed cutter. 1,723,843; Aug. 6.
- Chapuis, Achille L., New York, N. Y. Camera. 1,701,492; Feb. 12.
- Chapleau, Louis A., assignor to South Bend Bait Company, South Bend, Ind. Fishing lure. 1,698,151; Jan. 8.
- Chapleau, Walter, Bayonne, N. J. Combined chair, receptacle, and dustpan. 1,722,074; July 23.
- Chaplick, Zigman, Chicago, Ill. Smoking stand. Des. 79,324; Sept. 3.
- Chaplin, Merle P., White Plains, N. Y., assignor, by mesne assignments, to Fidelity Trust Company, trustee, Portland, Me. Method of and apparatus for forming articles from pulp. 1,707,429; Apr. 2.
- Chaplin, Merle P., White Plains, N. Y., assignor, by mesne assignments, to Fidelity Trust Company, trustee, Portland, Me. Pulp-molding machine and forming molded pulp articles. 1,707,430; Apr. 2.
- Chaplin, Merle P., White Plains, N. Y., assignor, by mesne assignments, to Fidelity Trust Company, trustee, Portland, Me. Pulp-molding machine. 1,709,338; Apr. 16.
- Chaplin, Merle P., Waterville, assignor, by mesne assignments, to Fidelity Trust Company, trustee, Portland, Me. Pulp-molding machine. 1,730,450; Oct. 8.
- Chapman, Alfred L., Los Angeles, Calif. Folding running-board rack. 1,713,520; May 21.
- Chapman, Arthur G., East Orange, N. J., assignor to American Telephone and Telegraph Company. Cross-talk meter. 1,704,786; Mar. 12.
- Chapman, Charles H. (See Jones, B. W., and Chapman.)
- Chapman, Charles S. (See Kough, John C., jr., assignor.)
- Chapman Dehydrator Company. (See Chapman, Frank C., assignor.)
- Chapman, Edward W., assignor to American Seating Company, Grand Rapids, Mich. Folding writing arm. 1,731,293; Oct. 15.
- Chapman Electric Neutralizer Company. (See Chapman, William H., assignor.)
- Chapman Engineering Company, et al. (See Andrews, C. W., and Chapman, assignors.)
- Chapman, Everett, assignor to The Lincoln Electric Company, Cleveland, Ohio. Electromagnetic device. 1,720,943; July 16.
- Chapman, Frank C., assignor to Chapman Dehydrator Company, Modesto, Calif. Dehydrator. 1,737,533; Nov. 26.
- Chapman, Frank D., Berlin, Wis. Exhaust box or cooker. 1,728,926; Sept. 24.
- Chapman, Frank D., assignor to Berlin Chapman Company, Berlin, Wis. Plymcher. 1,732,552; Oct. 22.
- Chapman, George H., Plymouth, Mass. Vehicle light dimmer. 1,719,922; July 9.



- Chapman, George T., Pittsburgh, Pa., assignor to Central Electric Tool Company. Rotating drill chuck for percussive tools. 1,716,114; June 4.
- Chapman, James J., Elizabeth, La. Band saw and pulley therefor. 1,711,374; Apr. 30.
- Chapman, John W. (See Melley, J. J., and Chapman.)
- Chapman, John W., Parsons, Kans., and J. J. Melley, Chicago, Ill. Bearing for locomotive trucks and the like. Re17,419; Aug. 27.
- Chapman, Laurence D., assignor to Hill & Cutler Co., New Bedford, Mass. Machine for removing foreign matter from fibrous materials. 1,710,344; Apr. 23.
- Chapman, Louis A., assignor to Long's Fixtures Corporation, New York, N. Y. Display device for neckties. 1,702,038; Feb. 12.
- Chapman, Penrose E., St. Louis, Mo., assignor to W. A. Horner, Chicago, Ill. Picture-projecting apparatus. 1,699,833; Jan. 22.
- Chapman, Ralph W., assignor to T. M. Chapman's Sons Company, Old Town, Me. Machine for producing air waves. 1,727,861; Sept. 10.
- Chapman, Samuel E., Los Angeles, Calif. Vessel-propelling means. 1,705,807; Mar. 19.
- Chapman-Stein Furnace Co., The. (See Chapman, William B., assignor.)
- Chapman, William B. (See Andrews, C. W., and Chapman.)
- Chapman, William B., New York, N. Y. Apparatus for burning finely-divided coal. 1,719,874; July 9.
- Chapman, William B., Jackson Heights, N. Y. Producer-gas boiler. 1,722,495; July 30.
- Chapman, William B., Jackson Heights, N. Y. Boiler and operating the same. 1,722,496; July 30.
- Chapman, William B., Jackson Heights, N. Y., assignor to The Chapman-Stein Furnace Co., Mount Vernon, Ohio. Continuous push furnace. 1,713,995; May 21.
- Chapman, William B., Colorado Springs, Colo. Grate structure. 1,732,500; Oct. 22.
- Chapman, William H., assignor to Chapman Electric Neutralizer Company, Portland, Me. Neutralizer bar. 1,735,494; Nov. 12.
- Chapman, William H., Montclair, and P. H. Hutchinson, East Orange, N. J., assignors to General Motors Corporation, Detroit, Mich. Tool-spindle mounting. 1,697,046; Jan. 1.
- Chapman's, T. M., Sons Company. (See Chapman, Ralph W., assignor.)
- Chappelka, Arthur H., Willoughby, Ohio, assignor, by mesne assignments, to Chisholm-Moore Hoist Corporation, Buffalo, N. Y. Hoist. 1,729,262; Sept. 24.
- Chappell, Marvin L. (See Black, J. C., and Chappell.)
- Chappell, Marvin L., Los Angeles, assignor, by mesne assignments, to Contact Filtration Company, San Francisco, Calif. Revivifying spent clarifying and decolorizing agents. 1,715,535; June 4.
- Chappell, Marvin L., Inglewood, and G. J. Ziser, Los Angeles, assignors, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Purifying petroleum distillates. 1,741,555; Dec. 31.
- Chappelle, Peter J., Helena, Mont. Clarifier. 1,725,618; Aug. 20.
- Chapsal, Pierre. (See Lenouvel, J. L., and Chapsal.)
- Charch, William H., and K. E. Prindle, Buffalo, assignors, by mesne assignments, to du Pont Cellophane Company, Inc., New York, N. Y. Moistureproof material. 1,737,187; Nov. 26.
- Charcolite Corporation. (See Rodgers, Richard L., assignor.)
- Chardon, Felix, Glen Rock, N. J., assignor to J. M. Van Heusen, Boston, Mass. Garment support. 1,721,498; July 16.
- Charen, Myer, Philadelphia, Pa. Tooth shade guide. 1,704,723; Mar. 12.
- Charen, Myer, assignor to Universal Dental Company, Philadelphia, Pa. Artificial-tooth holder. 1,698,256; Jan. 8.
- Charette, Joseph A., South Orange, N. J. Brush. 1,703,510; Feb. 26.
- Charlebois, Amable, Ferndale, Mich. Window construction. 1,739,060; Dec. 10.
- Charles, Carl L., Baltimore, Md. Supporting car bodies on trucks. 1,706,350; Mar. 19.
- Charles, Henry L., Kent, Wash. Smelting furnace. 1,724,340; Aug. 13.
- Charles, Homer W., Portland, Oreg. Attic ladder. 1,724,824; Aug. 13.
- Charles, Maurice, Courbevoie, France. Hydraulic brake system. 1,721,372; July 16.
- Charles, William T., Washington, D. C. Synchronizing motor-vehicle transmission gears. 1,702,721; Feb. 19.
- Charlton, Ernest E., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,728,822; Sept. 17.
- Charlton, Ernest E., Schenectady, N. Y., assignor to General Electric Company. Preparing electric discharge devices. 1,738,420; Dec. 3.
- Charlton, Harry J., assignor to Frank Holton & Company, Elkhorn, Wis. Valve for musical wind instruments. 1,708,259; Apr. 9.
- Charlton, Richard C., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Circular saw. 1,707,903; Apr. 2.
- Charlton, Roy H., Belmont, assignor to Filing Equipment Bureau, Incorporated, Boston, Mass. Paper fastener. 1,704,121; Mar. 5.
- Charlton, Roy H., Belmont, assignor to Filing Equipment Bureau, Incorporated, Boston, Mass. Filing device. 1,737,641; Dec. 3.
- Charms Company. (See King, Maine D., assignor.)
- Charnaux, Louis M. C., Vichy, France. Apparatus for containing or retaining the human body or that of animals for medical, surgical, and hygienic purposes. 1,729,502; Sept. 24.
- Charney, Aaron, Chicago, Ill. Duster mop and polisher. 1,711,830; May 7.
- Charnley, Walter J., Omaha, Nebr. Feed mixer. 1,717,760; June 18.
- Charter, James A., Chicago, Ill. Gas engine. 1,718,775; June 25.
- Charter Oak Stove & Range Company. (See Dana, Leslie, assignor.)
- Chartier, Michel A., Roxbury, Mass. Gas bread toaster. 1,698,933; Jan. 15.
- Chase, Charles H., Stoneham, Mass., assignor to Caro Cloth Corporation, Carolina, R. I. Needling machine. 1,742,133; Dec. 31.
- Chase Companies. (See Cornell, Edward S., jr., assignor.)
- Chase Companies. (See Recker, Adolph C., assignor.)
- Chase Companies, Inc. (See Clarke, William W., assignor.)
- Chase Companies Inc. (See Hagel, Albert, assignor.)
- Chase Companies, Inc. (See Puckett, Paul B., assignor.)
- Chase Companies Inc. (See Recker, Adolph C., assignor.)
- Chase Companies, Incorporated. (See Reichenbach, Howard F., assignor.)
- Chase, Elroy A., Northfield, Vt. Edge-trimming machine for stone blocks. 1,704,855; Mar. 12.
- Chase, Elroy A., Northfield, Vt. Scroll wheel. 1,711,042; Apr. 30.
- Chase, Elroy A., Northfield, Vt. Stone ornamentation and producing the same. 1,711,043; Apr. 30.
- Chase, Elroy A., Northfield, Vt. Stone-grinding machine. 1,725,899; Aug. 27.
- Chase, Elroy A., Northfield, Vt. Machine for finishing stone. 1,740,154; Dec. 17.
- Chase, Fay H. (See Weaver, A., and Chase.)
- Chase Foundry & Mfg. Company, The. (See Chase, Sherwood M., assignor.)
- Chase, George C., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Multiplier mechanism for calculating machines. Re17,466; Oct. 22.
- Chase, George E., Defiance, Ohio. Stubble shredder. 1,740,069; Dec. 17.
- Chase, Henry A. (See English, A. M., and Chase.)
- Chase, Henry B., Ithaca, N. Y. Ice creeper. 1,728,783; Sept. 17.
- Chase, Horace S., Boston, and W. R. Fletcher, Southwick, Mass.; said Fletcher assignor, by mesne assignments, to said Chase. Control for locks or the like. 1,724,792; Aug. 13.
- Chase, L. C., & Company. (See Jenks, William H., assignor.)
- Chase, Leon W., Lincoln, Nebr., assignor to Chase Plow Company. Land marker. 1,738,231; Dec. 3.
- Chase, Leon W., and J. C. Brand, Lincoln, Nebr., assignor to Chase Plow Company. Cultivator. 1,700,728; Jan. 29.
- Chase Machine Company. (See Chase, S., 4th, and Pfeiffer, assignors.)
- Chase, Philip H. (See Allen, William S., assignor.)
- Chase Plow Company. (See Chase, Leon W., assignor.)
- Chase Plow Company. (See Chase, L. W., and Brand, assignors.)
- Chase, Sherwood M., assignor to The Chase Foundry & Mfg. Company, Columbus, Ohio. Rayon truck. 1,722,454; July 30.
- Chase, Stephen, 4th, Chicago, and B. S. Pfeiffer, Winnetka, assignors to Chase Machine Company, Chicago, Ill. Rug-drying machine. 1,741,755; Dec. 31.
- Chase, Theron P., Detroit, Mich., assignor to General Motors Research Corporation, Dayton, Ohio. Internal-combustion engine. Re17,549; Dec. 31.
- Chase, Theron P., assignor to General Motors Research Corporation, Dayton, Ohio. Rubber spring shackle. 1,703,296; Feb. 26.
- Chase, Theron P., assignor to General Motors Research Corporation, Dayton, Ohio. Resilient connector. 1,703,297; Feb. 26.
- Chase, Theron P., assignor to General Motors Research Corporation, Detroit, Mich. Compensating-engine mounting. 1,712,950; May 14.
- Chase, Theron P., assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Torsion balancer. 1,718,634; June 25.
- Chase, Theron P., assignor to General Motors Research Corporation, Detroit, Mich. Internal brake. 1,726,509; Aug. 27.
- Chase, Theron P., and W. S. Lee, assignors to General Motors Research Corporation, Detroit, Mich. Automatic brake adjustment. 1,714,900; May 28.
- Chase, Wilford O., Redford, Mich. Carburetor. 1,716,619; June 11.
- Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Knee control mechanism for portable electric sewing machines. 1,721,069; July 16.
- Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Knee control mechanism for electric-sewing-machine cabinets. 1,721,070; July 16.
- Chason, Daniel H., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine case. 1,736,306; Nov. 19.



- Chassevent, Louis E., Paris, France. Manufacture of matble plaster. 1,703,097; Feb. 26.
- Chastain, George, Indianapolis, Ind. Acetylene torch. 1,711,262; Apr. 30.
- Chatfield, Franklin, assignor to Munsingswear Corporation, Minneapolis, Minn. Lady's undergarment. 1,737,408; Nov. 26.
- Chatfield, Ruth H., Freeport, N. Y. Double baby carriage. 1,707,186; Mar. 26.
- Chatfield, Ruth H., Freeport, N. Y. Convertible carriage and crib. 1,727,335; Sept. 10.
- Chatham Metal Spinning and Stamping Corporation. (See Richter, Charles, assignor.)
- Chatham and Phenix National Bank of the City of New York, et al., executors. (See Wallace, Thomas.)
- Chatillon, John, & Sons. (See Cameron, Hugh M., assignor.)
- Chatillin, John, & Sons. (See Lewis, A. J., and Reynolds, assignors.)
- Chaton Fibre Company. (See Eaton, William E., assignor.)
- Chattam Metal Spinning and Stamping Corporation. (See Richter, Charles, assignor.)
- Chattanooga Implement & Mfg. Co. (See Lancaster, Harry V., assignor.)
- Chattin, Robert C., Mountain Home, assignor to Chattin Tool Company, Boise, Idaho. Irrigation ditcher. 1,703,098; Feb. 26.
- Chattin Tool Company. (See Chattin, Robert C., assignor.)
- Charfo, Harry M., Schenectady, N. Y., assignor to General Electric Company. Switch-latching mechanism. 1,701,440; Feb. 5.
- Chaudoir, Eugene, Wavertree, Liverpool, England. Vehicle storage building and elevator. 1,697,345; Jan. 1.
- Chaunard, Clarence, New York, N. Y. Clasp. 1,701,970; Feb. 12.
- Chausse, Francis W., Salem, Oreg. Closure for milk bottles. 1,719,212; July 2.
- Chause, Wilfrid G., Detroit, Mich. Street-repair machine. 1,714,659; May 28.
- Chaussier, Noël, Paris, France. Amusement and recreative device for fairs and the like. 1,712,550; May 14.
- Chauveau, Louis L. E., Paris, France. Distant-control device for use over telephone lines. 1,726,947; Sept. 3.
- Chauviere, Lucien, Paris, France. Aircraft provided with rotating wing surfaces. 1,704,034; Mar. 5.
- Chauvin, Henri, Noisy-le-Sec, France. Daylight-charging, photographic-plate holder. 1,717,187; June 11.
- Chavand, René, Lyon, France. Link belt. 1,720,166; July 9.
- Chavanne, Louis. (See Weymerskirch, T., and Chavanne.)
- Cheadle, Louis H., Denver, Colo. Electric stove. 1,697,755; Jan. 1.
- Cheatham Electric Switching Device Company. (See Crago, P. H., and Rabun, assignors.)
- Cheatham Electric Switching Device Co. (See Olmsted, Elmer S., assignor.)
- Cheatham Electric Switching Device Company. (See Rabun, George D., assignor.)
- Cheatham Electric Switching Device Company. (See Richterkessing, Frank H., assignor.)
- Cheatham Electric Switching Device Co. (See Robinson, Robert M., assignor.)
- Checker Cab Manufacturing Corporation. (See Ruppel, Frederick C., assignor.)
- Checkley, George, New York, N. Y. Propeller. 1,717,663; June 18.
- Cheek, Simmons L. (See Walters, William A., assignor.)
- Cheek, Tolbert F., New York, N. Y., assignor to The Aeolian Company. Player action. 1,704,077; Mar. 5.
- Cheek, Tolbert F., New York, N. Y., assignor to The Aeolian Company. Expression regulator for player pianos. 1,704,078; Mar. 5.
- Cheek, Tolbert F., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Record-controlled musical instrument. 1,715,279; May 28.
- Cheek, Tolbert F., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Fall board. 1,715,280; May 28.
- Cheek, Tolbert F., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Stopping mechanism for record-controlled musical instruments. 1,727,809; Sept. 10.
- Cheeseman, Ralph T. (See Fitz Patrick, J. J., and Cheeseman.)
- Chegwidden, Francis J., Moorestown, and W. Chegwidden, Maple Shade, N. J. Friction let-off for looms. 1,701,063; Feb. 5.
- Chegwidden, William. (See Chegwidden, Francis J. and W.)
- Cheln, Elizabeth H. (See Berger, Isadore, assignor.)
- Chem-Electric Engineering Corporation. (See Day, Leonard, assignor.)
- Chemical Machinery Corporation. (See Field, Crosby, assignor.)
- Chemical & Metallurgical Corporation. (See Smith, Stanley C., assignor.)
- Chemical Research & Designing Corporation. (See Dely, Joseph G., assignor.)
- Chemical Works formerly Sandoz. (See Burckhardt, E., Müller, and Rothlin, assignors.)
- "Chemical Works formerly Sandoz." (See Du Bois, Edmond, assignor.)
- Chemical Works formerly Sandoz. (See Knecht, Oskar, assignor.)
- Chemical Works formerly Sandoz. (See Kreis, Walter, assignor.)
- Chemical Works formerly Sandoz. (See Rheiner, Alfred, assignor.)
- Chemical Works formerly Sandoz. (See Rothlin E., and Müller, assignors.)
- Chemical Works formerly Sandoz. (See Stolle, A., and Kussmaul, assignors.)
- Chemicolor Wood Preserving Co. (See Renner, Herbert, assignor.)
- Chemipulp Process Inc. (See Dunbar, T. L., and Richter, assignors.)
- Chemisch-Technische Gesellschaft m. b. H. (See Plassmann, Josef, assignor.)
- Chemisch-Technische Gesellschaft mit beschränkter Haftung. (See Besta, Adalbert, assignor.)
- Chemische Fabrik auf Actien (vorm. E. Schering). (See Dorn, M., and Dirksen, assignors.)
- Chemische Fabrik auf Actien vorm. E. Schering. (See Jordan, H., Schoeller, and Clerc, assignors.)
- Chemische Fabrik auf Actien, vorm. E. Schering. (See Schoeller, W., and Jordan, assignors.)
- Chemische Fabrik auf Actien, vorm. E. Schering. (See Schoeller, W., and Schotte, assignors.)
- Chemische Fabrik Grünau Landshoff & Meyer Aktiengesellschaft. (See Magat, Israel, assignor.)
- Chemische Fabrik von Heyden. (See von Hoessl, C. H., and Richter, assignors.)
- Chemische Fabriken Dr. Kurt Albert G. m. b. H. (See Amann, August, assignor.)
- Chemo-Mechanical Water Improvement Company. (See Harrison, Edward F., assignor.)
- Chenckick, Michael, Chicago, Ill. Float and the like. 1,725,977; Aug. 27.
- Cheney, Allan, Melrose, assignor to The Cheney Company, Winchester, Mass. Interlocking metal flashing. 1,715,090; May 28.
- Cheney, Allan, Melrose, assignor to The Cheney Company, Winchester, Mass. Interlocking metal flashing. 1,728,955; Sept. 24.
- Cheney Brothers. (See Reinartz, John L., assignor.)
- Cheney Brothers. (See Virgile, Gabriel J., assignor.)
- Cheney, Charles W., Birmingham, England. Hinge for expandable suitcases, trunks, and the like. 1,708,829; Apr. 9.
- Cheney, Charles W., Birmingham, England. Hasp fastening for expandable suitcases, trunks, and the like. 1,720,467; July 9.
- Cheney Chemical Company, The. (See Cheney, Merle B., assignor.)
- Cheney Company, The. (See Cheney, Allan, assignor.)
- Cheney, George H. (See Hale, W. J., and Cheney.)
- Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Contact mechanism. 1,735,263; Nov. 12.
- Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Automatic motor starter. 1,740,070; Dec. 17.
- Cheney, Merle B., assignor to The Cheney Chemical Company, Cleveland, Ohio. Anesthetic gas and making same. 1,712,250; May 7.
- Cheney, Moses E., assignor to National Gauge & Equipment Company, La Crosse, Wis. Instrument-board panel and lighting construction. 1,713,996; May 21.
- Cheney, S., & Son. (See Littler, James H., assignor.)
- Cheney, Thorndike F., Danvers, Mass., assignor, by mesne assignments, to Old Colony Trust Company, trustee. Rectifier. 1,738,169; Dec. 3.
- Cheney Weeder Company. (See Largent, R. M., and Van Patten, assignors.)
- Chenick, George W. (See Wilson, R. E., Moore, and Chenick.)
- Chenoweth, Alexander C., deceased, New York, N. Y.; C. R. Chenoweth, administratrix. Method of and apparatus for spreading plastic material. 1,731,231; Oct. 8.
- Chenoweth, Catharine R., administratrix. (See Chenoweth, Alexander C.)
- Cherette, James A., assignor of one-half to J. S. Francois, Big Bay, Mich. Bowling pin. 1,722,557; July 30.
- Cherniack, Hyman, Brooklyn, and S. Brandon, New York, N. Y.; said Cherniack assignor to said Brandon. Latch control for shaft doors. 1,700,557; Jan. 29.
- Cherniavsky, Abraham, Los Angeles, Calif. Piano attachment. 1,722,410; July 30.
- Chernick, Joseph, New York, N. Y. (Finger-ring structure. 1,721,071; July 16.
- Chéron, Pierre J., Stratford, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Audible traffic-warning device for vehicles. Des. 79,499; Oct. 1.
- Chéron, Pierre J., Stratford, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Combined traffic-warning device and support therefor. Des. 79,500; Oct. 1.
- Chéron, Pierre J., Stratford, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Combined traffic-warning device and support therefor. Des. 79,501; Oct. 1.
- Chéron, Pierre J., Stratford, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Combined traffic-warning device and support therefor. Des. 79,502; Oct. 1.



- Chéron, Pierre J., Stratford, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Combined traffic-warning device and support therefor. Des. 79,503; Oct. 1.
- Chéron, Pierre J., Stratford, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Combined traffic-warning device and support therefor. Des. 79,504; Oct. 1.
- Chéron, Pierre J., Stratford, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Combined traffic-warning device and support therefor. Des. 79,505; Oct. 1.
- Cherry-Burrell Corporation. (See Bagby, Ralph B., assignor.)
- Cherry-Burrell Corporation. (See Boileau, Arthur H., assignor.)
- Cherry-Burrell Corporation. (See Lippold, Adolph J., assignor.)
- Cherry-Burrell Corporation. (See Mack, Charles B., assignor.)
- Cherry-Burrell Corporation. (See McCain, Wes W., assignor.)
- Cherry-Burrell Corporation. (See Miller, Charles F., assignor.)
- Cherry-Burrell Corporation. (See Rosenfield, Louis, assignor.)
- Cherry-Burrell Corporation. (See Strandt, Gustav E., assignor.)
- Cherry-Burrell Corporation. (See Strandt, G. E., and Lippold, assignors.)
- Cherry-Burrell Corporation. (See Wightman, Rolan J., assignor.)
- Cherry-Burrell Corporation. (See Wright, Herbert E., assignor.)
- Cherry, Carl W., Carmel, Calif. Articulated skeletal toy. 1,719,590; July 2.
- Cherry, Charles K., Little Rock, Ark. Vending machine. 1,737,784; Dec. 3.
- Cherry, Frank L., Chicago, assignor to L. W. Fricke, Oak Park, Ill. Ham holder. 1,697,809; Jan. 1.
- Cherry, Frank L., Chicago, assignor to L. W. Fricke, Oak Park, Ill. Ham holder. 1,711,195; Apr. 30.
- Cherry, George L., Libertyville, Ill., assignor to The De Laval Separator Company, New York, N. Y. Reclaiming used lubricating oil. 1,698,257; Jan. 8.
- Cherry, Lester A., assignor to Cundall, Powell & Mosher, Inc., Buffalo, N. Y. Sorting machine. 1,716,620; June 11.
- Cherry, Oscar A., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Phenolic condensation products and preparing same. 1,737,917; Dec. 3.
- Cherry, Oscar A., and F. Kurath, assignors to Economy Fuse and Manufacturing Company, Chicago, Ill. Producing phenolic condensation products. 1,710,722; Apr. 30.
- Cherry, Oscar A., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Urea and formaldehyde condensation products. 1,737,918; Dec. 3.
- Cherry, Oscar A., and F. Kurath, assignors to Economy Fuse and Manufacturing Company, Chicago, Ill. Producing phenolic condensation products. 1,726,650; Sept. 3.
- Cherry, Oscar A., and F. Kurath, assignors to Economy Fuse and Manufacturing Company, Chicago, Ill. Phenolic condensation products and producing same. 1,737,916; Dec. 3.
- Cherry, Thomas H. (See Liebel, J. G. H., and Cherry.)
- Chesebro, Whitman Co. Inc. (See Davidson, Frederic A., assignor.)
- Chesher, Harry, Philadelphia, Pa. Latch bolt. 1,728,747; Sept. 17.
- Chesler, Nathan, Brooklyn, N. Y. Switch plate. 1,715,222; May 28.
- Chesney, Jacques W. D., assignor to Solar Research Corporation, Chicago, Ill. Treating foods. 1,704,173; Mar. 5.
- Chesney, Jacques W. D., assignor to The Chesney Process, Inc., Chicago, Ill. Sterilization and food activation. 1,723,603; Aug. 6.
- Chesney Process, Inc., The. (See Chesney, Jacques W. D., assignor.)
- Chesnut, John, jr. (See Marshall, A. P., and Chesnut.)
- Chesnut, Roy W., Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secret communication system. 1,725,566; Aug. 20.
- Chesnutt, John L., et al. (See Chesnutt, William M., assignor.)
- Chesnutt, John L., Long Beach, Calif. Poultry drinking fountain. 1,739,290; Dec. 10.
- Chesnutt, William M., Fresno, Calif., assignor to J. L. Chesnutt, Long Beach, and F. M. Ray, Oakland, Calif. Caster wheel. 1,734,326; Nov. 5.
- Chesnutt, William M., Fresno, Calif., assignor to J. L. Chesnutt, Long Beach, and F. M. Ray, Oakland, Calif. Swivel caster. 1,734,363; Nov. 5.
- Chesson, Lewis H., Henderson, N. C. Lardameter. 1,701,971; Feb. 12.
- Chester, Frank R., New York, N. Y., assignor, by mesne assignments, to Chesterfield Control Company, Dover, Del. Display device. 1,709,607; Apr. 16.
- Chester, Frank R., New York, N. Y., assignor to Chesterfield Control Company, Dover, Del. Baseball game. 1,713,643; May 21.
- Chesterfield Control Company. (See Chester, Frank R., assignor.)
- Chesterfield Control Company. (See Smith, Gordon, assignor.)
- Chesterfield Metal Company. (See Chesterfield, Percy C., assignor.)
- Chesterfield, Percy C., assignor to Chesterfield Metal Company, Detroit, Mich. Alloy and making the same. 1,698,934; Jan. 15.
- Chesterfield, Percy C., assignor to Chesterfield Metal Company, Detroit, Mich. High-speed alloy. 1,698,935; Jan. 15.
- Chesterfield, Percy C., assignor to Chesterfield Metal Company, Detroit, Mich. Alloy. 1,698,936; Jan. 15.
- Chester-Pollard Amusement Company. (See Smith, Gordon, assignor.)
- Chetlain, Frederick H., et al., trustees. (See Arey, Fred C., assignor.)
- Chevalet, Pierre A. A. (See Cusin, M., and Chevalet.)
- Chevallier, Arnold L., Fourmarks, Hampshire, and R. Churchill, London, England. Sporting gun, rifle, and the like. 1,702,153; Feb. 12.
- Chevola, Henry A. (See Mossi, C. B., and Chevola.)
- Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slipping weft detector for looms. 1,715,992; June 4.
- Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slipping weft detector for looms. 1,724,257; Aug. 13.
- Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin release for weft-replenishing mechanism. 1,739,209; Dec. 10.
- Chevrette, Augustin J., and K. J. Unwin, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Yielding support for loom bobbins. 1,724,256; Aug. 13.
- Chew, Samuel N., Thornton Heath, England. Gas and air washing apparatus. 1,731,371; Oct. 15.
- Chiapetto, Peter J., Oakland, Calif. Illuminated house number. 1,739,709; Dec. 17.
- Chicago Armor Corporation. (See Wisbrod, Louis, assignor.)
- Chicago Automatic Conveyor Co. (See Shaw, Arthur L., assignor.)
- Chicago Bridge & Iron Co. (See Boardman, Harry C., assignor.)
- Chicago Bridge & Iron Co. (See Day, Clayton L., assignor.)
- Chicago Bridge and Iron Company. (See Day, C. L., Boardman, and Bailey, assignors.)
- Chicago Cardboard Company. (See Ziemmerman, Henry, assignor.)
- Chicago Carton Company. (See Richardson, Ralph R., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Swanson, Earl R., assignor.)
- Chicago Cutting Die Co. (See Anderson, William and F. T., assignors.)
- Chicago Electric Manufacturing Co. (See Oetjen, Howard H., assignor.)
- Chicago Eye Shield Company. (See Stein, Michael, assignor.)
- Chicago Flexible Shaft Company. (See Bartlett, Edwin S., assignor.)
- Chicago Flexible Shaft Company. (See Browning, George, assignor.)
- Chicago Forging & Manufacturing Company. (See Gilmore, Charles B., assignor.)
- Chicago Gymnasium Equipment Company. (See Gross, Elmer J., assignor.)
- Chicago Hardware Foundry Company. (See Burgess, George A., assignor.)
- Chicago Hardware Foundry Company. (See Goble, Palmer C., assignor.)
- Chicago Hardware Foundry Company. (See Wackerle, Lewis E., assignor.)
- Chicago Jefferson Fuse & Electric Company. (See Cook, H. R., and Johnson, assignors.)
- Chicago Jefferson Fuse & Electric Company. (See Johnson, C. A., and Nyberg, assignors.)
- Chicago Jefferson Fuse & Electric Company. (See McDonald, C. T., and Cook, assignors.)
- Chicago Lumber Company of Washington. (See Joseph, Paul E., assignor.)
- Chicago Manufacturing & Distributing Company. (See McKee, Ralph J., assignor.)
- Chicago Manufacturing & Distributing Company. (See McKee, R. J., and Scheffler, assignors.)
- Chicago Manufacturing & Distributing Company. (See Scheffler, William F., assignor.)
- Chicago Metallic Mfg. Co. (See Cohn, Albert, assignor.)
- Chicago Mica Company. (See Frederick, Louis T., assignor.)
- Chicago Mill and Lumber Corporation. (See Gerlach, Charles W., assignor.)
- Chicago Miniature Lamp Works. (See Gast, Adolph W., assignor.)
- Chicago Pneumatic Tool Company. (See Coates, Charles B., assignor.)
- Chicago Pneumatic Tool Company. (See Collins, Anthony H., assignor.)
- Chicago Pneumatic Tool Company. (See Davenport, Ransom W., assignor.)
- Chicago Pneumatic Tool Company. (See Davenport, R. W., and Estler, assignors.)
- Chicago Pneumatic Tool Company. (See Hamilton, P. J., and Meunier, assignors.)



- Chicago Pneumatic Tool Company. (See Meunier, Leon F., assignor.)
- Chicago Pneumatic Tool Company. (See Moody, Julius C., assignor.)
- Chicago Pneumatic Tool Company. (See O'Farrell, Matthew, assignor.)
- Chicago Pneumatic Tool Company. (See Penberthy, Ernest, assignor.)
- Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)
- Chicago Pump Company. (See Brauer, Arthur H., assignor.)
- Chicago Pump Company. (See Cowle, Paul W., assignor.)
- Chicago Pump Company. (See Durdin, Augustus C., jr., assignor.)
- Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
- Chicago Railway Equipment Company. (See Busse, E. G., and Ekholm, assignors.)
- Chicago Railway Equipment Company. (See Ekholm, Herbert W., assignor.)
- Chicago Railway Equipment Company. (See Hawkins, Arthur W., assignor.)
- Chicago Railway Equipment Company. (See Kadar, Louis, assignor.)
- Chicago Railway Equipment Company. (See Murphy, Lewis S., assignor.)
- Chicago Railway Equipment Company. (See Nelson, Roy A., assignor.)
- Chicago Railway Equipment Company. (See Priebe, Herman C., assignor.)
- Chicago Railway Signal & Supply Company. (See McCarthy, Daniel J., assignor.)
- Chicago Rhopac Products Company. (See Johnson, Norman E., assignor.)
- Chicago Roller Skate Company. (See Ware, Robert R., assignor.)
- Chicago Steel & Wire Company. (See Green, J. Birchard, assignor.)
- Chicago Telephone Supply Company. (See Diener, Riley M., assignor.)
- Chicago Telephone Supply Company. (See Frost, Herbert H., assignor.)
- Chicago Telephone Supply Company. (See Schellenger, Newton C., assignor.)
- Chicago Vitreous Enamel Product Company. (See Hogenenson, William, assignor.)
- Chicago White Lead and Oil Co., The. (See Thomas, John E., assignor.)
- Chichester, Oscar F., and J. J. Sylva, assignors to California Cedar Products Company, Stockton, Calif. Slattrimming machine. 1,705,808; Mar. 19.
- Chicoine, Louis P., and El. Sauvé, Vaudreuil, Quebec, Canada. Rail-handling tool. 1,732,804; Oct. 22.
- Chicolski, Mike, Sifton, Manitoba, Canada. Seed-drill-shoe regulator. 1,735,597; Nov. 12.
- Chiet, Hyman E. (See Glowa, J., and Chiet.)
- Chileote Company, The. (See Hatch, William A., assignor.)
- Child, Herbert E. (See Penney, L. W., and Child.)
- Child, Lachlan W. (See Bulkeley, C. A., and Child.)
- Child, Robert C., Brookline, Mass., assignor to G. E. Frantic Manufacturing Company, New Britain, Conn. Bag, pocket, or pouch, and closure therefor. 1,718,276; June 25.
- Childers, George P., San Francisco, Calif. Sign character. Des. 79,788; Nov. 5.
- Childers, John M., Lenoir, N. C. Chair. 1,737,107; Nov. 26.
- Children, Will C. (See Bebensee, M., Children, and Martin.)
- Childress, Christopher C., Venus, Tex. Rat trap. 1,708,119; Apr. 9.
- Childs Company. (See Childs, Elmer E., assignor.)
- Childs, Elmer E., Jackson Heights, assignor to Childs Company, New York, N. Y. Restaurant order check. Des. 79,506; Oct. 1.
- Childs, Frederick, San Francisco, Calif. Hand stamp. 1,723,267; Aug. 6.
- Childs, Wilfred L., Evanston, Ill. Making playing balls. 1,713,216; May 14.
- Childs, William L., assignor to Reed Roller Bit Company, Houston, Tex. Swab rubber. 1,729,064; Sept. 24.
- Chiles, George S., assignor, by mesne assignments, to Scullin Steel Co., St. Louis, Mo. Side frame. 1,736,251; Nov. 19.
- Chiles, Howard M., Champaign, assignor to Pyro-Pack Products Co., Chicago, Ill. Preparing di-iodo-fluorescein. 1,733,776; Oct. 29.
- Chiles, William J., Wiggins, Miss. Switch. 1,729,735; Oct. 1.
- Chillas, Richard B., jr. (See Peterkin, A. G., jr., Stroud, and Chillas.)
- Chillas, Richard B., jr., assignor to The Atlantic Refining Company, Philadelphia, Pa. Fractional-distillation apparatus. 1,736,845; Nov. 26.
- Chillas, Richard B., jr., assignor to The Atlantic Refining Company, Philadelphia, Pa. Fractional-distillation apparatus. 1,738,036; Dec. 3.
- Chilowsky, Constantin, and F. Perrin, Paris, France. Distinguishing between natural pearls and cultivated pearls. 1,730,190; Oct. 1.
- Chilson, Lewis S., assignor to J. M. Fisher Company, Attleboro, Mass. Ornament. 1,718,947; July 2.
- Chilson, Roy W., E. L. Bacon, and R. E. Luikart, Detroit, Mich. Adjustable automobile seat. 1,700,308; Jan. 29.
- Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,709,828; Apr. 23.
- Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,709,829; Apr. 23.
- Chilton, Ralph H., assignor to Industrial Research Corporation, Toledo, Ohio. Starter mechanism for engines. 1,712,649; May 14.
- Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Rubber pivot joint. 1,729,328; Sept. 24.
- Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Transmission belt. 1,729,329; Sept. 24.
- Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,739,025; Dec. 10.
- Chilton, Roland. (See Douglas, W. H., and Chilton.)
- Chilton, Roland, Keyport, N. J., assignor to Healey-Aeromarine Bus Company, Inc. Frictional engaging mechanism. 1,714,496; May 28.
- Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Universal cranking mechanism for starters or the like. 1,731,451; Oct. 15.
- Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Clutch. 1,739,947; Dec. 17.
- Chilton, Thomas H. (See Carman, F. J., and Chilton.)
- Chimney Perfector Company. (See Blanchard, Lester L., assignor.)
- Chin, Tom H., assignor of one-fourth to P. Brewton, Mobile, Ala. Tongue scraper. 1,741,143; Dec. 31.
- Chinchilla, Michael A., Philadelphia, Pa. Combination mirror frames and shelves. Des. 77,590; Jan. 29.
- Chiossone, Gabriel. (See Medrano, A. M., and Chiossone.)
- Chipman, Andrew Le R. (See Chipman, Harry E., assignor.)
- Chipman, Eddie G., Luling, Tex. Gear puller. 1,708,355; Apr. 9.
- Chipman, Harry E., Springfield, Mass., assignor to A. L. Chipman, New York, N. Y. Electromagnetic sound recording and reproducing machine. 1,731,235; Oct. 15.
- Chipman, James, and W. Clayton, Breese, Ill. Socket and blade. 1,703,923; Mar. 5.
- Chipman, Paul. (See Alfred, F. H., and Chipman.)
- Chipron Stamp Company. (See Smith, Albert K., jr., assignor.)
- Chireix, Henri, Paris, France. Ground connection for radio electric antennae. 1,697,948; Jan. 8.
- Chireix, Henri, Paris, France. Signaling system and method of signaling. 1,702,039; Feb. 12.
- Chireix, Henri, Paris, France. Frequency regulation. 1,737,147; Nov. 26.
- Chireix, Henri, Paris, France. Electric signaling. 1,739,948; Dec. 17.
- Chireix, Henri, Paris, France. Duplex transmission system. 1,740,969; Dec. 24.
- Chireix, Henri, and L. Philippart, Paris, France. High-speed relay. 1,702,075; Feb. 12.
- Chirichigno, Gerard C. (See Schweimler, R. W., and Chirichigno.)
- Chirol, Maurice, Paris, France, assignor to Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, Montrouge, France. Tuned electrical servo-motor device. 1,712,377; May 7.
- Chirol, Maurice, Bourg-la-Reine, assignor to Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, Montrouge, and l'Action à Distance, Paris, France. Electromechanical relay motor. 1,724,825; Aug. 13.
- Chiron, Hippolyte M., Paris, France. Musical instrument. 1,718,930; June 25.
- Chirpe, William, Chicago, Ill. Fire-hydrant wrench. 1,705,470; Mar. 19.
- Chisholm, Clifton. (See Morse, L. H., and Chisholm.)
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Implement for locking printing strips. 1,720,318; July 9.
- Chisholm, Clifton, assignor to The American Multigraph Sales Company, Cleveland, Ohio. (Work-ejecting mechanism for printing apparatus. 1,721,000; July 16.
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Embossing machine. 1,728,390; Sept. 17.
- Chisholm, Douglas C., and J. A. Hannum, assignors to G. E. Collings, trustee, Cleveland, Ohio. Treating silk-containing wool materials. 1,735,420; Nov. 12.
- Chisholm, Douglas W., Glasgow, Scotland, assignor to The Birchfield Engineering Company Limited, Cardiff, Wales. Manufacture of butt-welded tubes. 1,735,234; Nov. 12.
- Chisholm, Eugene B., Brady, Tex. Poultry drinking fountain. 1,719,100; July 2.
- Chisholm, George, Jersey, Channel Islands. Signaling device for use upon motor road vehicles. 1,716,421; June 11.
- Chisholm, Harry L., jr., assignor to Alloy Boat Corporation, Buffalo, N. Y. Folding fin for motor boats. 1,703,868; Mar. 5.
- Chisholm, Lester B., assignor to American Mills Co., Waterbury, Conn. Smooth-face elastic fabric. 1,716,816; June 11.
- Chisholm, Lester B., Stoneham, assignor to Everlastik, Inc., Chelsea, Mass. Making covered elastic strands. 1,726,099; Aug. 27.



- Chisholm-Moore Hoist Corporation. (See Chappelka, Arthur I., assignor.)
- Chisholm-Moore Hoist Corporation. (See Saborsky, Arthur D., assignor.)
- Chisholm, Walter J., Waco, Tex. Animal trap. 1,740,333; Dec. 17.
- Chislet, Harry, Schenectady, N. Y., assignor to General Electric Company. Depositing emulsified solids. 1,724,826; Aug. 13.
- Chittenden, Charles E., and C. Fabian, Auckland, New Zealand. Locking the steering wheels of motor vehicles. 1,709,839; Apr. 23.
- Chittim, Carl C., Springfield, Mo. Foldable bed construction. 1,729,986; Oct. 1.
- Chittim, Carl C., Springfield, Mo. Tent construction. 1,729,987; Oct. 1.
- Chittim, Carl C., Springfield, Mo. Folding tent. 1,730,267; Oct. 1.
- Chitty, Charles W. (See Kent-Jones, D. W., and Chitty.)
- Chitty, Charles W., and D. W. Kent-Jones, assignors to Woodlands Limited, Dover, England. Heat treatment of cereal substances. 1,710,472; Apr. 23.
- Chitty, Howard, Mitchell, Ind. Trolling raft. 1,740,002; Dec. 17.
- Chitty, William C., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J. Electrical valve actuation. 1,734,419; Nov. 5.
- Chiusano, Rocco. (See Wang, Alfred, assignor.)
- Chmura, John, Marmarth, N. Dak. Pressure-relieving device. 1,713,420; May 14.
- Choate, Roy E., Cedar Rapids, Iowa. Snowplow. 1,739,352; Dec. 10.
- Chocolat Tobler Holding Co. Aktiengesellschaft. (See Egli, Arnold A., assignor.)
- Chocolat Tobler Holding Co. Aktiengesellschaft. (See Schäfer, Werner, assignor.)
- Chogo, Koji, Kobe, assignor of one-half to S. Kubota, Tokyo, Japan. Apparatus for mixing liquid and gas. 1,740,441; Dec. 24.
- Choiniski, Walter, Milwaukee, Wis. Combination clothes-line reel and clothespin carrier. 1,718,777; June 25.
- Choquette, John A., Ottawa, Ontario, Canada. Fluid-driven turbine. 1,701,029; Feb. 5.
- Chorlton, Alan E. L., London, England. Liquid-fuel-admission device for internal-combustion engines. 1,720,657; July 16.
- Chorlton, Alan E. L., London, England. Stress-head construction. 1,725,955; Aug. 27.
- Chorlton, Alan E. L., R. A. D. Haig, and H. J. Stieger, London, England. Wing for aircraft. 1,712,812; May 14.
- Chorlton, Alan E. L., assignor of one-half to W. Beardmore, London, England. Internal-combustion engine. 1,720,510; July 9.
- Chorlton, Alan E. L., assignor of one-half to W. Beardmore, London, England. Engine casing. 1,720,625; July 9.
- Chorlton, Alan E. L., assignor of one-half to William Beardmore, Lord Invernairn, London, England. Delivery of liquid. 1,721,001; July 16.
- Chott, Edward L., Chicago, Ill. Weighing scale. 1,725,058; Aug. 20.
- Chouinard, Oscar, assignor to H. Wykes, New York, N. Y. Step and repeat machine. 1,714,589; May 28.
- Chow, Jack W., Lodi, Calif. Rack attachment. 1,705,557; Mar. 19.
- Chr. Hostmann-Steinberg'sche Farbenfabriken G. m. b. H. (See Macholf, Josef, assignor.)
- Chrétien, Henri, St. Cloud, France. Autocollimating reflector and application to optical signaling and night advertising. 1,706,218; Mar. 19.
- Chrisfield, Howard E., Johnson City, assignor to Endicott Johnson Corporation, Endicott, N. Y. Shoe sole. Des. 80,217; Dec. 31.
- Chrisman, Horace, Edgewood, assignor, by mesne assignments, to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Pen. 1,715,117; May 28.
- Christ, Bruno. (See Schumann, C., Münch, Schlichting, and Christ.)
- Christ, Elmer F., Dubuque, Iowa. Brake-pedal holder. 1,707,113; Mar. 26.
- Christ, Reiff E., Blackfoot, Idaho. Gas timer for engines. 1,715,223; May 28.
- Christ, Wilhelm, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Production of ice colors. 1,733,447; Oct. 29.
- Christel, Frank O., Columbus, Ohio. Brake. 1,737,357; Nov. 26.
- Christen, Alfred, Basel, Switzerland. Hair tonic. 1,732,120; Oct. 15.
- Christensen Air Brake Company, The. (See Brings, John J., assignor.)
- Christensen, Anker L., New York, N. Y. Counterboring tool. 1,724,005; Aug. 13.
- Christensen, Chester W. (See North, C. O., and Christensen.)
- Christensen, Christen, assignor to Electrical Engineers Equipment Company, Chicago, Ill. Switch lock. 1,720,818; July 16.
- Christensen, Hildur L., St. Paul, Minn. Toy. 1,712,231; May 7.
- Christensen, Hilma C., Summit, N. J. Lady's undergarment. 1,706,210; Mar. 19.
- Christensen, Jens H., Holte, Denmark. Colored picture and producing the same. 1,709,563; Apr. 16.
- Christensen Machine Company, The. (See Belluche, Elmer W., assignor.)
- Christensen Machine Company, The. (See Greene, F. J., and Belluche, assignors.)
- Christensen, Martin C. (See Katzele, R. A., and Christensen.)
- Christensen, Niels A., Milwaukee, Wis. Carburetor. 1,701,141; Feb. 5.
- Christensen, Niels A., Milwaukee, Wis. Brake mechanism. 1,701,142; Feb. 5.
- Christensen, Niels A., Milwaukee, Wis. Steering-wheel brake. 1,708,053; Apr. 9.
- Christensen, Niels A., Milwaukee, Wis. Wheel brake for vehicles. 1,715,407; June 4.
- Christensen, Niels A., Milwaukee, Wis. Compressor or motor. 1,715,408; June 4.
- Christensen, Niels A., Milwaukee, Wis. Brake system. 1,724,127; Aug. 13.
- Christensen, Niels A., Milwaukee, Wis. Compressor governor. 1,735,197; Nov. 12.
- Christensen, Niels A., Milwaukee, Wis. Brake mechanism. 1,739,781; Dec. 17.
- Christensen, Niels A., Milwaukee, Wis. Vehicle wheel-brake mechanism. 1,739,782; Dec. 17.
- Christensen, Niels A., Cleveland, Ohio. Vehicle brake apparatus. 1,707,973; Apr. 9.
- Christensen, Niels A., Cleveland, Ohio. Trailer-vehicle brake apparatus. 1,707,974; Apr. 9.
- Christensen, Niels A., Cleveland, Ohio. Vehicle brake. 1,707,975; Apr. 9.
- Christensen, Niels A., Cleveland, Ohio. Piston-sealing means. 1,711,919; May 7.
- Christensen, Niels A., Cleveland, Ohio. Vehicle brake mechanism. 1,718,526; June 25.
- Christensen, Niels A., Cleveland, Ohio. Piston. 1,721,986; July 23.
- Christensen, Niels A., Cleveland, Ohio. Piston packing. 1,727,366; Sept. 10.
- Christensen, Niels A., Cleveland, Ohio. Vehicle brake apparatus. 1,739,783; Dec. 17.
- Christensen, Niels C., Salt Lake City, Utah. Treating oxidized ores of lead. 1,726,258; Aug. 27.
- Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Feed-off-the-arm sewing machine. 1,718,411; June 25.
- Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Filled-bag weighing and closing machine. 1,719,651; July 2.
- Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Presser foot for sewing machines. 1,731,094; Oct. 8.
- Christensen, Norman V., and W. M. Hanneman, assignors to Union Special Machine Company, Chicago, Ill. Filled-bag-closing machine. 1,723,133; Aug. 6.
- Christensen, Norman V., and H. J. Le Vesconte, assignors to Union Special Machine Company, Chicago, Ill. Feed-off-the-arm sewing machine. 1,741,095; Dec. 24.
- Christensen, Norman V., Chicago, and H. J. Le Vesconte, Maywood, assignors to Union Special Machine Company, Chicago, Ill. Feed-off-the-arm sewing machine. 1,741,096; Dec. 24.
- Christensen, Oswald A., Oakland, Calif. Hose connection. 1,740,574; Dec. 24.
- Christensen, Peter C., East Orange, N. J. Coating and filling material and the production thereof. 1,728,391; Sept. 17.
- Christenson, Carl A. (See Sjøbring, N. P., and Christenson.)
- Christenson, George, North Plainfield, N. J. Recessed packing. 1,712,603; May 14.
- Christenson, George, North Plainfield, N. J., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Packing for air-brake cylinders and the like. 1,715,406; June 4.
- Christenson, George E. Jr., North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Composite article. 1,730,804; Oct. 8.
- Christenson, Gust J. (See Hinsch, W. H., and Christenson.)
- Christesen, H. P., Company. (See Christesen, Hugh P., assignor.)
- Christesen, Hugh P., Des Moines, Iowa, assignor to H. P. Christesen Company, Inc., Kimball, S. Dak. Exerciser, reducer, and health builder. 1,706,654; Mar. 26.
- Christia, George. (See Christia, Peter and G.)
- Christia, Peter and G., Detroit, Mich. Wheel. 1,719,213; July 2.
- Christian, David A., assignor to Siemens Brothers & Company, Limited, London, England. Telephone system. 1,738,564; Dec. 10.
- Christian, E. H. (See Bogard, Frank T., assignor.)
- Christian, Herbert W., Windsor, Ontario, Canada. Water heater. 1,734,075; Nov. 5.
- Christian, Thomas, Chicago, Ill. Dispensing device. 1,742,157; Dec. 31.
- Christian, Walton G., Houston, Tex. Slip. 1,721,689; July 23.
- Christians, George W., Chattanooga, Tenn. Apparatus for sealing crevices in rock formations or the like. 1,715,592; June 4.
- Christiansen, Andrew L., Wilmington, and W. S. La Londe, Los Angeles, Calif. Fish cutting and cleaning machine. 1,699,951; Jan. 22.
- Christiansen, Bror, Smedjebacken, Sweden. Reducing ores. 1,728,784; Sept. 17.



- Christiansen, Bror, Smedjebacken, Sweden. Roasting and reducing ores. 1,732,672; Oct. 22.
- Christiansen, Christian, Fargo, N. Dak. Tire-reinforcing means. 1,723,467; Aug. 6.
- Christiansen, Christian, Fargo, N. Dak. Platform-adjusting means for combined harvesters and shockers. 1,728,150; Sept. 10.
- Christiansen, Niels, assignor to Newport News Shipbuilding and Dry Dock Company, Newport News, Va. Indicating change in fluid temperature. 1,719,046; July 2.
- Christiansen, William F., Chicago, Ill. Chair or similar article. Des. 77,591; Jan. 29.
- Christiansen, William F., Chicago, Ill. Chair or similar article. Des. 77,592; Jan. 29.
- Christianson, Milton E., Jasper, Minn. Arch support. 1,732,885; Oct. 22.
- Christianson, Richard, Santa Cruz, Calif. Lawn-smoothing implement. 1,728,331; Sept. 17.
- Christianson, Theodore C., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electrical switch gear. 1,732,713; Oct. 22.
- Christie, Frederick, assignor to A. E. Schadeewald, trading as Schadeewald Mills, Philadelphia, Pa. Textile fabric. Des. 77,890; Mar. 5.
- Christie, John, assignor to Eastman Kodak Company, Rochester, N. Y. Latch for camera fronts. 1,723,723; Aug. 6.
- Christie, John W., Avon, N. J., assignor, by mesne assignments, to Browning Crane Company, Cleveland, Ohio. Drive for motor vehicles. 1,736,391; Nov. 19.
- Christie, William J. (See Orr, James C., assignor.)
- Christman, John M., assignor, by mesne assignments, to Guardian Trust Company of Detroit, trustee, Detroit, Mich. Painting instrument. 1,728,043; Sept. 10.
- Christman, Matthias, Springfield, Mo. Journal box. 1,733,401; Oct. 29.
- Christman, Peter J., jr., Green Bay, Wis. Napkin-folding machine. 1,708,534; Apr. 9.
- Christman, Peter J., jr., Green Bay, Wis. Napkin. 1,718,776; June 25.
- Christmann, Ludwig J., Jersey City, N. J., assignor to American Cyanamid Company, New York, N. Y. Inhibitor. 1,734,560; Nov. 5.
- Christmann, Ludwig J., Jersey City, N. J., assignor to American Cyanamid Company, New York, N. Y. Inhibiting compound. 1,734,561; Nov. 5.
- Christmas, William W., Ridgely Park, N. J. Rubber latex-proteid compound. 1,724,906; Aug. 20.
- Christoph & Unmack Actien-Gesellschaft. (See Lüneburg, Anton, assignor.)
- Christoph & Unmack Actien-Gesellschaft. (See Tittelbach, Fritz, assignor.)
- Christophel, Carl E., deceased, by The First National Bank and Trust Company, Pearl River, executor; said Christophel assignor to Dexter Folder Company, New York, N. Y. Sheet-feeding device. 1,706,655; Mar. 26.
- Christophel, Lewis W., Clayton, Mo., assignor to Atlas Tack Corporation, Fairhaven, Mass. Lock for trunks. 1,700,998; Feb. 5.
- Christopher, Arthur J. (See Whittle, H., and Christopher.)
- Christopher, Arthur J., Yonkers, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coil and transformer. 1,708,935; Apr. 16.
- Christopher, Calvin F., Canton, N. C. Revolving computing scale. 1,736,821; Nov. 26.
- Christopher, Eugene, Urbana, Ill. Safety base for portable grandstands. 1,720,944; July 16, 1929.
- Christopher, Harry J., Westfield, N. J., assignor to American Telephone and Telegraph Company. Device for locking evacuated tubes. 1,738,524; Dec. 10.
- Christopher, Ralph E., Grindstone, Pa. Cap. 1,716,719; June 11.
- Christophersen, Anna, Brooklyn, N. Y. Wristlet. 1,713,261; May 14.
- Christopherson, Harry, et al. (See Linder, Gustave E., assignor.)
- Christy, Elvan B., Los Angeles, Calif. Combination coaster and slide. 1,728,332; Sept. 17.
- Christy, William B., assignor to Horn Surgical Company, Philadelphia, Pa. Knit garment. 1,741,826; Dec. 31.
- Chriswell, Frederick W., assignor to Pacific Car and Foundry Company, Seattle, Wash. Body-bolster construction. 1,708,871; Apr. 9.
- Critton, George A., trustee. (See Eckart, George F., assignor.)
- Chromeplate, Inc. (See Auerbach, Rudolf, assignor.)
- Chromium Corporation of America. (See Schwartz, Kevie W., assignor.)
- Chronik, August and L., New York, N. Y. Thread-counting apparatus. 1,740,970; Dec. 24.
- Chronik, Louis. (See Chronik, August and L.)
- Chronister, Elmer E. (See Blough, J. T. B., and Chronister.)
- Chrul, Teofil J., Baltimore, Md. Snow loading and disposal machine. 1,706,144; Mar. 19.
- Chrysler Corporation. (See Breer, Carl, assignor.)
- Chrysler Corporation. (See Carson, Clarence, assignor.)
- Chrysler Corporation. (See Cousino, Walter P., assignor.)
- Chrysler Corporation. (See Henderson, Herbert V., assignor.)
- Chrysler Corporation. (See Kent, Philip J., assignor.)
- Chrysler Corporation. (See Laurence, Thomas J., assignor.)
- Chrysler Corporation. (See Lee, Roger K., assignor.)
- Chrysler Corporation. (See Macauley, John B., jr., assignor.)
- Chrysler Corporation. (See McClellan, Harry S., assignor.)
- Chrysler Corporation. (See Probert, S. C., and Spurr, assignors.)
- Chrysler Corporation. (See Riker, F. J., and Bleicher, assignors.)
- Chrysler Corporation. (See Selje, Frederick A., assignor.)
- Chrysler Corporation. (See Sinclair, Alfred J., assignor.)
- Chrysler Corporation. (See Tjaarda, John, assignor.)
- Chrysler Corporation. (See Vail, Ralph A., assignor.)
- Chrysler Corporation. (See Woolson, Harry T., assignor.)
- Chryst, William A. (See Kettering, C. F., and Chryst.)
- Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Clutch. 1,708,215; Apr. 9.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Shock absorber. 1,710,861; Apr. 30.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition coil. 1,710,862; Apr. 30.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition apparatus. 1,720,540; July 9.
- Chryst, William A., assignor by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,720,945; July 16.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition-starting apparatus. 1,729,761; Oct. 1.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,733,940; Oct. 29.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,733,941; Oct. 29.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,733,942; Oct. 29.
- Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,733,943; Oct. 29.
- Chubb, Annie L., Oakland, Calif. Clothes-hanger cover. 1,721,543; July 23.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Base socket. 1,707,252; Apr. 2.
- Chubbuck, Paul R., assignor to Metal Stamping Corporation, Streator, Ill. Display rack for folding tables or like articles. 1,734,997; Nov. 12.
- Chudner, Joseph, New York, N. Y. Speed-control pulley. 1,736,578; Nov. 19.
- Chudomelka, John T., Dodge, Nebr. Animal oiler. 1,704,724; Mar. 12.
- Chulstrom, John M. (See McGuinness, W. V., and Chulstrom.)
- Chupp, Grady T., Smackover, Ark. Grease cup and closure. 1,737,148; Nov. 26.
- Church, Charles N. (See Martin, W. M., and Church.)
- Church, Dennis. (See De Smith, H., and Church.)
- Church, Edmund S., assignor to The Tilt-Top Cap Company, Chicago, Ill. Bottle cap. 1,706,561; Mar. 26.
- Church, Frederick A., Venice, Calif. Laminated construction for roller-coaster tracks. 1,741,286; Dec. 31.
- Church, Harold D., Fairfield, Conn., assignor of one-third to C. Marcus, New York, N. Y., and one-third to R. P. Lansing, Montclair, N. J. Shock absorber for vehicles. 1,697,418; Jan. 1.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,704,725; Mar. 12.
- Church, Harold D., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Brake. 1,705,046; Mar. 12.
- Church, Harold D., assignor to The White Motor Company, Cleveland, Ohio. Motor vehicle. 1,710,345; Apr. 23.
- Church, Harvey B., Botha, Alberta, Canada. Earth, sand, gravel, and manure loader. 1,720,626; July 9.
- Church, Kenneth B., Norwich, assignor to The Aspinook Company, Jewett City, Conn. Waterproofing fabrics. 1,732,121; Oct. 15.
- Church, Lawrence A., Rock Falls, Ill. Speed-control device. 1,703,135; Feb. 26.
- Church, Lewis H. (See Buchanan, S. N., and Church.)
- Church, Lewis H., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,732,927; Oct. 22.
- Church, Lewis H., Roselle, assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,734,202; Nov. 5.
- Church, Lewis H., Westfield, assignor to Thomas & Betts Co., Elizabeth, N. J. Pipe-bending tool. 1,699,952; Jan. 22.
- Churcher, William B., Cleveland, Ohio. Electromagnetic relay. 1,721,177; July 16.
- Churcher, William B., assignor to The White Motor Company, Cleveland, Ohio. Electrical ignition system. 1,702,108; Feb. 12.
- Churcher, William B., Cleveland Heights, assignor to The White Company, Cleveland, Ohio. Electrical controller. 1,706,528; Mar. 26.
- Churcher, William B., Cleveland Heights, assignor to The White Company, Cleveland, Ohio. Electrical signaling system and apparatus therefor. 1,726,423; Aug. 27.
- Churcher, William B., Cleveland, Ohio, assignor to The White Motor Company. Electromagnetic relay. 1,726,424; Aug. 27.
- Churchill, Adoniram J., assignor to H. Graves and W. Miller, Los Angeles, Calif. Drain and waste pipe cleaner. 1,723,765; Aug. 6.
- Churchill, Edmund O., Salida, Colo. Grading machine. 1,714,347; May 21.



- Churchill, Lawrence E., Oshkosh, Wis. Device for breaking in smokers' pipes. 1,740,334; Dec. 17.
- Churchill, Robert. (See Chevallier, A. L., and Churchill.)
- Churchill and Alden Company. (See Farnum, Frank S., assignor.)
- Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., Hoboken, N. J. Electric welding apparatus. 1,720,664; July 16.
- Chute, Hiram E., Los Angeles, Calif. Bridle strap for piano actions. 1,703,298; Feb. 26.
- Chute, Hiram E., Los Angeles, Calif. Bridle strap for piano actions. 1,727,502; Sept. 10.
- Chwala, August, Vienna, Austria. Manufacturing colloid compounds. 1,728,662; Sept. 17.
- Ciboch, Lewis M., Brookfield, Ill. Dental burr cabinet. 1,731,705; Oct. 15.
- Ciborowski, Frank, Worcester, Mass. Wire guide for paper machines. 1,712,378; May 7.
- Ciccioanni, Joseph, Detroit, Mich. Aeroplane. 1,713,421; May 14.
- Cicerchi, Anton R., Hillsville, Pa. Cone dispenser. 1,699,425; Jan. 15.
- Cicero, Ralph S., Waterbury, Conn. Core-making machine. 1,739,663; Dec. 17.
- Cichou, Thomas J., Buffalo, N. Y. Cap for pencils and pens. 1,714,947; May 28.
- Ciferskor, Peter, Hartford, Conn. Line tightener. 1,725,130; Aug. 20.
- Ciffo, Salvatore, New York, N. Y. Electric bulb or similar article. Des. 79,130; Aug. 6.
- Ciliske, Albert I., Chicago, Ill. Compination tool. 1,737,827; Dec. 3.
- Ciliske, Albert I., Chicago, Ill. Combination tool. 1,739,440; Dec. 10.
- Cinch Manufacturing Corporation. (See Kimbell, Arthur W., assignor.)
- Cinch Manufacturing Corporation. (See Vodicka, John, assignor.)
- Cincinnati Ball Crank Company. (See Butler, Clyde G., assignor.)
- Cincinnati Ball Crank Company, The. (See Walter, Fred C., assignor.)
- Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
- Cincinnati Bickford Tool Company, The. (See Klausmeyer, D. C., and Norris, assignors.)
- Cincinnati Butchers' Supply Company, The. (See Schmidt, Oscar C., assignor.)
- Cincinnati Cap Company, The. (See Matlock, John W., assignor.)
- Cincinnati Car Co., The. (See Elliott, Thomas, assignor.)
- Cincinnati Car Corporation, The. (See Elliott, Thomas, assignor.)
- Cincinnati Ice Screen Company, The. (See Schneider, Albert C. and H. E., assignors.)
- Cincinnati Grinders Incorporated. (See Binns, George W., assignor.)
- Cincinnati Grinders Incorporated. (See Booth, Clement, assignor.)
- Cincinnati Grinders, Incorporated, The. (See Caster, John E., assignor.)
- Cincinnati Grinders Incorporated. (See Einstein, Sol, assignor.)
- Cincinnati Grinders Incorporated. (See Ernst, H., and Nenninger, assignors.)
- Cincinnati Grinders Incorporated. (See Haas, Fred S., assignor.)
- Cincinnati Grinders Incorporated. (See Heim, Lewis R., assignor.)
- Cincinnati Grinders Incorporated. (See Holmes, Harold W., assignor.)
- Cincinnati Grinders Incorporated. (See Kern, Fred M., assignor.)
- Cincinnati Grinders Incorporated. (See Kern, F. M., and Seward, assignors.)
- Cincinnati Grinders Incorporated. (See Kearns, Bernard A., assignor.)
- Cincinnati Grinders Incorporated. (See Norton, Charles H., assignor.)
- Cincinnati Grinders Incorporated. (See Peets, Wilbur J., assignor.)
- Cincinnati Grinders Incorporated. (See Sobolewski, Edward, assignor.)
- Cincinnati Grinders Incorporated. (See Swanson, Harry J., assignor.)
- Cincinnati Lathe and Tool Company, The. (See Quedens, Peter G., assignor.)
- Cincinnati Milling Machine Company, The. (See Archea, Walter D., assignor.)
- Cincinnati Milling Machine Company, The. (See Ernst, Hans, assignor.)
- Cincinnati Milling Machine Company, The. (See Elfring, John B., assignor.)
- Cincinnati Milling Machine Company, The. (See Isler, Herman, assignor.)
- Cincinnati Planer Company, The. (See Addison, T., Gillham, and Langen, assignors.)
- Cincinnati Planer Company, The. (See Hohnhorst, R., and Langen, assignors.)
- Cincinnati Planer Company, The. (See Linden, C. E., and Langen, assignors.)
- Cincinnati Planer Company, The. (See Wetzels, F., and Langen, assignors.)
- Cincinnati Shaper Company, The. (See Hazelton, Robert T., assignor.)
- Cincinnati Time Recorder Company, The. (See Streckfuss, Elmer G., assignor.)
- Cincinnati Victor Company, The. (See Ryder, Charles D., assignor.)
- Cinderella Washing Machine Company. (See Barker, Percy E., assignor.)
- Cioffi, Paul P., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic material. 1,708,936; Apr. 16.
- Ciomei, Victor, Chicago, Ill. Oil drain. 1,717,188; June 11.
- Cipko, Joseph, New York, N. Y. Convertible shovel brush. 1,712,135; May 7.
- Cipriano, Calogero, Mount Morris, N. Y. Combined shovel and sifter. 1,710,204; Apr. 23.
- Ciranko, John. (See Saladino, C., and Ciranko.)
- Circle F Mfg. Co. (See Cross, Charles S., assignor.)
- Circle F Mfg. Co. (See Cross, C. S., and Smith, assignors.)
- Circle F Mfg. Co. (See Freeman, Edgar K., assignor.)
- Circle F Mfg. Co. (See Petersen, Carl M., assignor.)
- Citizens of the United States. (See Robinson, R. H., and Hartman, assignors.)
- Citizens of the United States, The. (See Parcell, James W., assignor.)
- Citizens of the United States, The. (See Wiegand, E. H., and Bullis, assignors.)
- Citizens Savings and Trust Company, The. (See Lincoln, John C., assignor.)
- Citizens Savings Bank and Trust Company, The, executor. (See Anderson, Olaf A.)
- Citrano, Louis, Huntsville, Ala. Heel-finishing machine. 1,727,633; Sept. 10.
- Citrus Products Company. (See Krick, Leonard B., assignor.)
- Cizek, James V., Chicago, Ill. Display rack. 1,738,869; Dec. 10.
- Cizek, Vojtech, Astoria, N. Y. Rotary internal-combustion engine. 1,716,621; June 11.
- Clack, Presley V., Knoxville, Tenn. Leather-tempering box. 1,735,625; Nov. 12.
- Claff, C. Lloyd, administrator. (See Claff, Mark B.)
- Claff, Mark B., deceased, Randolph, Mass., C. L. Claff, administrator. Box cover and making the same. 1,721,430; July 16.
- Claff, Mark B., deceased, Randolph, and W. A. Joplin, Norfolk Downs, Mass.; C. L. Claff, administrator of said Mark B. Claff, Box-making machine. 1,721,431; July 16.
- Claiborne, Robert W., New Canaan, Conn. Musical instrument. 1,702,643; Feb. 19.
- Claiborne, Robert W., New Canaan, Conn. Musical instrument. 1,708,495; Apr. 9.
- Claiborne, Sidney, Fort Worth, Tex., assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,698,810; Jan. 15.
- Clairis, Louis J., Paris, France, assignor to The Tabulating Machine Company, Endicott, N. Y. Counter cut-out. 1,738,816; Dec. 10.
- Clamp, Jesse C., Helena, Ark. Curtain for refrigerator-car doors. 1,726,887; Sept. 3.
- Clamp Nail Company. (See Jensen, Carl C., assignor.)
- Clampet, William V., (See Mortimer, S. E., and Clampet.)
- Clampitt, Audis B., (See Koenig, H. T., Fischer, Haffey, and Clampitt.)
- Clancy, John C., Asbury Park, N. J. Treating hydrocarbons. 1,721,728; July 23.
- Clancy, W. B., et al., trustees. (See Slater, Henry B., assignor.)
- Clanin, Clarence, Peoria, Ill. Packing. 1,698,876; Jan. 15.
- Clanton, Lee, Rockford, Wash. Fish snare. 1,721,205; July 16, 1929.
- Clapham, William. (See Lazare, R. B., and Clapham.)
- Clapp, Albert L. (See Kirschbraun, L., and Clapp.)
- Clapp, Albert L., Danvers, Mass. Oil and grease proof liner paper or board and making same. 1,741,556; Dec. 31.
- Clapp, Albert L., Danvers, assignor to The Flintkote Company, Boston, Mass. Shingle material and manufacture. 1,698,298; Jan. 8.
- Clapp, Albert L., Danvers, assignor to Bennett, Incorporated, Boston, Mass. Waterproof paper and producing the same. 1,706,840; Mar. 26.
- Clapp, Albert L., Danvers, assignor to Bennett, Incorporated, Boston, Mass. Greaseproof and waterproof paper and producing the same. 1,706,841; Mar. 26.
- Clapp, Albert L., Danvers, assignor to Bennett, Incorporated, Boston, Mass. Waterproof paper and producing the same. 1,727,003; Sept. 3.
- Clapp, Albert L., Danvers, assignor to Beckwith Manufacturing Company, Boston, Mass. Shoe stiffener. 1,739,578; Dec. 17.
- Clapp, Alvan S., assignor to Electric Bulletin Corporation, Spokane, Wash. Stereoscopic apparatus. 1,719,391; July 2.
- Clapp, Elwood L., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing absolute alcohol. 1,702,495; Feb. 19.
- Clapp, Frank L., and R. V. Young, Madison, Wis. Self-marking test sheet. 1,705,657; Mar. 19.
- Clapp, Harold H., Rochester, N. Y. Device for holding children in seats. 1,712,198; May 7.
- Clapp, Robert H. (See Affel, H. A., Hamilton, Thorp, and Clapp.)



- Clapp, Robert H., Richmond Hill, N. Y., assignor to American Telephone and Telegraph Company. Transmission repeating system for radio and carrier telegraph systems. 1,697,903; Jan. 8.
- Clapp, Rowland C., Portland, Oreg. Grain-delivery chute. Re17,439; Sept. 24.
- Clarage Fan Company. (See Monroe, Lewis O., assignor.)
- Claravox, Inc. (See Semple, Charles E., jr., assignor.)
- Claremont Waste Manufacturing Company. (See Perry, Louis E., assignor.)
- Clarín, Werner E., assignor to Beacon Steel Furniture Co., Chicago, Ill. Folding chair. 1,740,806; Dec. 24.
- Clarinda Manufacturing Company. (See Olson, Carl A., assignor.)
- Clarisse, Gustave, Halluin, France. Carding machine. 1,717,189; June 11.
- Clark, Adrian M., assignor to The Cooper Corporation, Cincinnati, Ohio. Battery terminal. 1,714,077; May 21.
- Clark, Albert B., Boston, Mass. Speed-change gear. 1,707,785; Apr. 2.
- Clark, Albert B., Readsboro, assignor to Readsboro Chair Company, Readsboro, Vt. Folding chair. 1,715,118; May 28.
- Clark, Alfred J. (See Hanson, J. E., and Clark.)
- Clark, Alfred T., H. A. Leonhauser, and J. R. Jester, Baltimore, Md. Car truck. 1,730,917; Oct. 8.
- Clark, Alva B., Brooklyn, N. Y., and G. Crisson, East Orange, N. J., assignors to American Telephone and Telegraph Company. Volume-range-control system. 1,719,047; July 2.
- Clark, Alva B., Maplewood, and G. Crisson, East Orange, N. J., assignors to American Telephone and Telegraph Company. Telephone repeater circuits. 1,734,113; Nov. 5.
- Clark, Alva B., Wyoming, N. J., and P. Mertz, Bellerose Manor, N. Y., assignors to American Telephone and Telegraph Company. Telautograph system. 1,722,274; July 30.
- Clark, Alvan S., Holyoke, Mass. Cylinder mold. 1,738,357; Dec. 3.
- Clark, Andrew, Montreal, Quebec, Canada. Gas burner. 1,710,012; Apr. 23.
- Clark, Andrew B., assignor of one-half to R. Luke, Thomasville, Ga. Doorcheck. 1,700,553; Jan. 29.
- Clark, Arthur L., Montclair, N. J. Game apparatus. 1,741,224; Dec. 31.
- Clark, Ary C., Brawley, Calif. Dredger. 1,739,888; Dec. 17.
- Clark, Baylies V., Annapolis, Md. Transmission gear. 1,737,451; Nov. 26.
- Clark, Benjamin S. (See Baldwin, Leon F. N., assignor.)
- Clark, Berton S., Maywood, Ill., assignor to American Can Company, New York, N. Y. Applying compound paper gaskets. 1,717,664; June 18.
- Clark, Charles C., Davenport, Iowa. Gas-burner deflector. 1,709,116; Apr. 16.
- Clark, Charles H., Jefferson City, Mo. Automobile license plate and automobile license-plate holder. 1,739,441; Dec. 10.
- Clark, Claude D., Akron, Ohio. Nutcracker. 1,698,620; Jan. 8.
- Clark Controller Company, The. (See Rippl, Charles H., assignor.)
- Clark-Cutler-McDermott Company. (See McDermott, Thomas S., assignor.)
- Clark, Dwight T., East Orange, N. J. Coin-controlled vending machine. 1,702,154; Feb. 12.
- Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Temperature-control device. 1,707,253; Apr. 2.
- Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic regulator. 1,709,656; Apr. 16.
- Clark, Edgar H. (See Stearn, F. A., and Clark.)
- Clark, Edgar H., Richmond Hill, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,700,467; Jan. 29.
- Clark, Edgar M., New York, N. Y., and F. A. Howard, Elizabeth, N. J., assignors to Standard Oil Development Company. Distilling oils. 1,710,404; Apr. 23.
- Clark, Edward F., assignor, by mesne assignments, to Clark Lighter Co., Inc., North Attleboro, Mass. Pocket lighter. 1,700,486; Jan. 29.
- Clark, Edward M., Davenport, Iowa. Advertising sign. Des. 78,008; Mar. 19.
- Clark, Elliott B., Weldon, N. C. Combined bottle-cap opener and drinking attachment. 1,737,828; Dec. 3.
- Clark Equipment Company. (See Mogford, Edmund C., assignor.)
- Clark, Ernest W., Hartford, and C. Schramm, West Hartford, assignors to The Smyth Manufacturing Company, Hartford, Conn. Cloth feed for case-making machines. 1,701,257; Feb. 5.
- Clark, Eugene F., Leaksville, N. C., assignor to Marshall Field Mills Corporation, Philadelphia, Pa. Loom for weaving tufted pile fabric. 1,709,608; Apr. 16.
- Clark, Eugene F., Damariscotta, Me., assignor to Marshall Field Mills Corporation, Philadelphia, Pa. Yarn-positioning device for looms for weaving tufted pile fabric. 1,742,024; Dec. 31.
- Clark, Everett E., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Check for Axminster-loom-needle motion. 1,722,837; July 30.
- Clark, Everett E., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tuft placer for pile-fabric looms. 1,737,642; Dec. 3.
- Clark, Everett E., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tube frame for Axminster looms. 1,741,287; Dec. 31.
- Clark, Ewen A., Boston, Mass. Power control. 1,704,426; Mar. 5.
- Clark, Ezra E., Newtonville, Mass. Check valve. 1,699,095; Jan. 15.
- Clark, Ezra E., Newtonville, Mass., assignor to F. J. Fee, New Rochelle, N. Y. Dry-pipe valve. 1,711,772; May 7.
- Clark, Farley G. (See Allan, William G., assignor.)
- Clark, Farley G. (See Robertson, Frederick D. S., assignor.)
- Clark Fibre Products Corporation. (See Clark, Horace H., assignor.)
- Clark, Frank, Dolliver, Iowa. Reversible sifter. 1,737,298; Nov. 26.
- Clark, Frank A., Salem, Ill. Convertible seat for motor vehicles. 1,732,151; Oct. 15.
- Clark, Frank E., Jamestown, N. Y. Process of and apparatus for producing inelastic fibrous material. 1,712,068; May 7.
- Clark, Frank P. (See Geretschlaeger, J. E., and Clark.)
- Clark, Frank R., Buffalo, N. Y. Casting box for printers. 1,707,598; Apr. 2.
- Clark, Frank W., Sanford, Me. Apparatus and process for dyeing. 1,698,778; Jan. 15.
- Clark, Franklin S., jr., et al., executors. (See Clark, Franklin S.)
- Clark, Franklin S., deceased, Palm Beach, Fla.; L. Yancey Clark and F. S. Clark, jr., executors. Wood distillation. 1,731,242; Oct. 15.
- Clark, Frederick, and A. V. Sullivan, Alameda, Calif. Cam-milling machine. 1,716,115; June 4.
- Clark, Frederick J., assignor to Eastman Machine Company, Buffalo, N. Y. Gauge for cloth-cutting machines. 1,699,462; Jan. 15.
- Clark, Frederick J., assignor to Eastman Machine Company, Buffalo, N. Y. Cloth-cutting machine. 1,715,447; June 4.
- Clark, Frederick P., East Chicago, Ind. Safety device. 1,712,650; May 14.
- Clark, George A., Elwood, Nebr. Automobile visor. 1,705,960; Mar. 19.
- Clark, George D., Sharpsville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alarm device. 1,705,715; Mar. 19.
- Clark, George H., Brooklyn, N. Y., assignor to Radio Corporation of America. Radio signaling apparatus. 1,712,026; May 7.
- Clark, George S., Huntington, W. Va. Bottle holder. 1,701,608; Feb. 12.
- Clark, Harold W., assignor to The Buckeye Jack Company, Alliance, Ohio. Lifting jack. 1,722,275; July 30.
- Clark, Harold W., assignor to The Buckeye Jack Manufacturing Company, Alliance, Ohio. Tire-rim tool. 1,736,727; Nov. 19.
- Clark, Henry F., Oakmont, assignor to Window Glass Machine Company, Pittsburgh, Pa. Method and apparatus for making wire glass. 1,708,662; Apr. 9.
- Clark, Horace H., Farmingdale, N. J., assignor to Clark Fibre Products Corporation. Molded indurated-fiber articles and making same. 1,717,092; June 11.
- Clark, J. H., et al. (See Williams, French B., assignor.)
- Clark, James E. (See Clark, Thomas E. and J. E.)
- Clark, James H., assignor to Briggs Manufacturing Company, Detroit, Mich. Remote-control lever assembly for door latches. 1,739,710; Dec. 17.
- Clark, J. L., Manufacturing Co. (See Anderson, Knute G., assignor.)
- Clark, J. L., Manufacturing Co. (See Arvidson, Clarence G., assignor.)
- Clark, J. L., Manufacturing Co. (See Kjellstrom, John H., assignor.)
- Clark, J. L., Manufacturing Co. (See Mills, Wallace C., assignor.)
- Clark, J. R., Co., The. (See Kalgren, John E., assignor.)
- Clark, James H., River Rouge, Mich. Support for tractor bodies. 1,713,114; May 14.
- Clark, James H., assignor to Briggs Manufacturing Company, Detroit, Mich. Top-bow-joint construction. 1,705,750; Mar. 19.
- Clark, James H., assignor to Briggs Manufacturing Company, Detroit, Mich. Guard rail and outer panel construction. 1,710,205; Apr. 23.
- Clark, James H., assignor to Briggs Manufacturing Company, Detroit, Mich. Guard rail and outer panel construction. 1,710,206; Apr. 23.
- Clark, James M., sr., Charleston, W. Va. Detachable luggage carrier. 1,712,869; May 14.
- Clark, Joe E., jr. (See Parry, S. R., jr., and Clark.)
- Clark, John E., Providence, R. I. Windshield wiper. 1,714,257; May 21.
- Clark, John J., Chicago, Ill. Umbrella. 1,697,520; Jan. 1.
- Clark, John M., assignor to Universal Button Fastening and Button Company, Detroit, Mich. Suspender-adjusting device. 1,729,608; Oct. 1.
- Clark, John T., Chicago, Ill. Lead-joint runner. 1,712,199; May 7.
- Clark, Joseph H., Newark, N. J. Vending apparatus. 1,726,525; Sept. 3.
- Clark, Keith, Ridgewood, N. J. Pad calendar. Des. 80,019; Dec. 3.



- Clark, Kenneth D. (See Deering, August M., assignor.)
- Clark, L. Yancey, et al., executors. (See Clark, Franklin S.)
- Clark, Lee H. (See Ayres, E. E., jr., and Clark.)
- Clark, Lee H., Rosemont, assignor to The Sharples Specialty Company, Philadelphia, Pa. Oil-purifying apparatus. 1,741,756; Dec. 31.
- Clark, Leverett M., Buffalo, N. Y., assignor to Waugh Equipment Company, Chicago, Ill. Hand-strap bracket. 1,729,988; Oct. 1.
- Clark Lighter Co. (See Clark, Edward F., assignor.)
- Clark Lighter Co. (See Patnaude, Edmond T., assignor.)
- Clark-Lindsay Corporation. (See Clark, Mabel A., assignor.)
- Clark-Lindsay Corporation. (See Lindsay, Homer J., assignor.)
- Clark, Lonnie E. (See Worrell, T. J., and Clark.)
- Clark, Luther I., New York, N. Y. Cable-straining anchorage clamp. 1,715,056; May 28.
- Clark, Mabel A., assignor to Clark-Lindsay Corporation, Rochester, N. Y. Coat hanger with identification label. 1,710,296; Apr. 23.
- Clark, Mabel A., assignor to Clark-Lindsay Corporation, Rochester, N. Y. Means of attaching out cards to files or folders. 1,730,644; Oct. 8.
- Clark, Melville, Syracuse, N. Y. Fruit picker. 1,729,762; Oct. 1.
- Clark Mfg. Company, The. (See Strong, Leslie P., assignor.)
- Clark, Nolan I., Seminole, Okla. Air heater for internal-combustion engines. 1,709,117; Apr. 16.
- Clark, Oliver H., Detroit, Mich. Radiator cap. Des. 78,153; Apr. 2.
- Clark, Oliver H., Detroit, Mich. Combined hood and cowl. Des. 78,192; Apr. 9.
- Clark, Oliver H., Detroit, Mich. Combined cowl and windshield. Des. 78,336; Apr. 23.
- Clark, Omar E. (See Skaer, A. H., Barker, and Clark.)
- Clark, Omar E. (See Skaer, A. H., Barker, Katterjohn, and Clark.)
- Clark, Omar E., Denver, Colo. Force cup. 1,728,202; Sept. 17.
- Clark, Omar E., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Clutch mechanism. 1,726,287; Aug. 27.
- Clark, Omar E., assignor to Gardner-Denver Company, Denver, Colo. Rock drill. 1,733,402; Oct. 29.
- Clark, P. M. (See Taft, John A., assignor.)
- Clark, Paul J., Pleasantville, N. J. Check-indorsing machine. 1,702,763; Feb. 19.
- Clark, Paul J., Pleasantville, N. J. Check-endorsing machine. 1,709,897; Apr. 23.
- Clark, Pendleton S., Lynchburg, Va. Safety-razor-blade holder. 1,713,890; May 21.
- Clark, Peter, Inc. (See Harding, Howard V., assignor.)
- Clark, Ralph C., assignor of forty-nine per cent to F. E. McCaughey, Los Angeles, Calif. Piston construction. 1,736,252; Nov. 19.
- Clark, Ralph O., Estherville, Iowa. Telescoping ladder. 1,731,611; Oct. 15.
- Clark, Ralph S., Rochester, N. Y. Locking mechanism. 1,701,099; Feb. 5.
- Clark, Raymond B., Birmingham, Ala. Cotton chopper. 1,723,502; Aug. 6.
- Clark, Robert J., Whitmans, W. Va. Fireplace. 1,716,029; June 4.
- Clark, Robert W., Newcastle-on-Tyne, and L. Sample, Northumberland, assignors to The Thermal Syndicate Limited, Wallsend-on-Tyne, England. Manufacture of fused quartz beams or the like. 1,724,793; Aug. 13.
- Clark, Roy A., Vancouver, British Columbia, Canada. Shingle-finishing machine. 1,731,452; Oct. 15.
- Clark, Russell P. (See Williams, A. D., Gillett, and Clark.)
- Clark, Stewart, H., Union City, Ind. Finishing welt. 1,724,454; Aug. 13.
- Clark, Thomas B., Hasbrouck Heights, N. J., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index signal. 1,732,928; Oct. 22.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Locomotive-control installation. 1,697,949; Jan. 8.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Train-control system. 1,702,764; Feb. 19.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Control system for railway trains. 1,706,022; Mar. 19.
- Clark, Thomas D. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Train-control system. 1,712,788; May 14.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Railway-train-control system. 1,712,981; May 14.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Train-control system. 1,718,527; June 25.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Combined vacuum tube and relay. 1,718,528; June 25.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Oscillating circuit for train-control systems. 1,737,750; Dec. 3.
- Clark, Thomas E. and J. E., assignors to Continuous Train Control Corporation, Detroit, Mich. Locomotive control installation. 1,737,751; Dec. 3.
- Clark Thread Company, The. (See Wray, Henry, assignor.)
- Clark Tractor Company. (See Burger, F. W., and Stockfeth, assignors.)
- Clark Tractor Company. (See Burrows, Robert J., assignor.)
- Clark Tractor Company. (See Stockfeth, B., and Burger, assignors.)
- Clark, Wallace S., Schenectady, N. Y., assignor to General Electric Company, Electric cable. 1,708,785; Apr. 9.
- Clark, Will A., St. Louis, Mo. Dispensing container for paste shoe polish. 1,701,663; Feb. 12.
- Clark, Will A., St. Louis, Mo. Dauber pad for liquid-polish applicators. 1,707,386; Apr. 2.
- Clark, Will A., St. Louis, Mo. Container. 1,711,375; Apr. 30.
- Clark, Will A., St. Louis, Mo. Parking indicator for automobiles. 1,714,157; May 21.
- Clark, Will M., South Orange, N. J. Exhibition apparatus. 1,722,659; July 30.
- Clark, William B., Springfield, N. J. Garment drying and stretching frame. 1,709,205; Apr. 16.
- Clark, William D., Washington, D. C. Airplane. 1,723,678; Aug. 6.
- Clark, William G. (See Weston, E. B., and Clark.)
- Clark, Worden S., Milwaukee, Wis. Motor vehicle. 1,699,877; Jan. 22.
- Clark, Wycliffe L., Jamestown, N. Y. Casket latch. 1,741,097; Dec. 24.
- Clarke, Albert A. (See Terry, H. W., and Clarke.)
- Clarke, Alex A., Chicago, Ill. Work-engaging support for surface-treating machines. Re17,482; Nov. 5.
- Clarke, Alex A., Chicago, Ill. Wood-surfacing machine. 1,732,594; Oct. 22.
- Clarke, Alex A., Chicago, Ill. Air-suction apparatus. 1,740,918; Dec. 24.
- Clarke, Arthur E., Arlington, N. J., assignor to Congoleum-Nairn, Inc. Inlaid linoleum. 1,702,630; Feb. 19.
- Clarke, Benjamin, et al. (See Duggan, William H., assignor.)
- Clarke, Bruce E., Kansas City, Mo. Chlorinized and ozonized topical remedy and making same. 1,724,562; Aug. 13.
- Clarke, C. W., et al. (See Duggan, William H., assignor.)
- Clarke, Carole A., Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission of pictures. 1,699,222; Jan. 15.
- Clarke, Cecil M., Chicago, Ill. Insulating sheet and making same. 1,704,174; Mar. 5.
- Clarke, Charles W. E., New York, N. Y. Apparatus for utilizing drip in high-pressure steam systems. 1,701,143; Nov. 12.
- Clarke, Charles W. E., New York, N. Y. Air preheater for boiler installations. 1,731,842; Oct. 15.
- Clarke, Charles W. E., New York, N. Y., assignor to L. V. Clarke, Philadelphia, Pa. Air heater. 1,734,962; Feb. 5.
- Clarke, Eric D., Parma Township, Cuyahoga County, Ohio. Washing machine. 1,709,774; Apr. 16.
- Clarke, Frank M., et al. (See Duggan, William H., assignor.)
- Clarke, George H., West Barrington, R. I. Lace. Des. 78,337; Apr. 23.
- Clarke, George H., West Barrington, R. I. Lace. Des. 78,338; Apr. 23.
- Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Making cellulose acetate esters containing higher acyl groups. 1,698,048; Jan. 8.
- Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Making cellulose esters containing halogen-substituted fatty-acid groups. 1,698,049; Jan. 8.
- Clarke, Hans T., and E. R. Taylor, assignors to Eastman Kodak Company, Rochester, N. Y. Making 2:4-dimethyl-6-ethoxyquinoline. 1,701,144; Feb. 5.
- Clarke, Hans T., New York, and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Mixed organic esters of cellulose and making the same. 1,704,282; Mar. 5.
- Clarke, Hans T., New York, and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Soluble halogen-substituted cellulosic organic acid esters. 1,704,283; Mar. 5.
- Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Making organic esters of cellulose. 1,716,422; June 11.
- Clarke, Hans T., and C. E. Waring, assignors to Eastman Kodak Company, Rochester, N. Y. Making ketene. 1,723,724; Aug. 6.
- Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Making mixed organic esters of cellulose. 1,735,159; Nov. 12.
- Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Making unsaturated acyl cellulose esters. 1,739,210; Dec. 10.
- Clarke, Harry S., Long Beach, Calif. Arm for street-lighting standards. Des. 80,165; Dec. 24.
- Clarke, Harry S., Los Angeles, Calif. Street-lighting standard. Des. 80,166; Dec. 24.
- Clarke, Henry J. (See Mojonier, J. J., Phillips, and Clarke.)



- Clarke, James B., Milan, Ill. Collapsible table and seat. 1,728,723; Sept. 17.
- Clarke, John Q., Crawfordsville, Ind. Automatic feeder for fowls. 1,720,884; July 16.
- Clarke, Lucille V. (See Clarke, Charles W. E., assignor.)
- Clarke-Moore Corporation. (See Moore, Arlington, assignor.)
- Clarke, Thomas B., and L. H. Bennion, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for treating blanks. 1,711,588; May 7.
- Clarke, William A., Jr., New Lexington, Ohio. Automatic ignition switch. 1,728,592; Sept. 17.
- Clarke, William B., East Orange, N. J., assignor to Shaw Crane-Putnam Machine Co., Inc., Muskegon, Mich. Truck for traveling cranes. 1,699,047; Jan. 15.
- Clarke, William W., assignor to Chase Companies, Inc., Waterbury, Conn. Force-feed oiler. 1,708,830; Apr. 9.
- Clarkson, Alick, assignor to S. E. Saunders Limited, East Cowes, Isle of Wight, England. Sewing machine. 1,715,119; May 28.
- Clarkson, Ben S., and W. E. Caldwell, Louisville, Ky.; said Caldwell assignor to said Clarkson. Tobacco hog-head. 1,704,787; Mar. 12.
- Clarkson, Guy S., Winnipeg, Manitoba, assignor, by mesne assignments, to Electric Dishwashers Limited, Winnipeg, Canada. Dishwashing machine. 1,710,863; Apr. 30.
- Clary, Thomas F., Council Grove, Kans. Valve-spring compressor. 1,729,736; Oct. 1.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,743; May 14.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,744; May 14.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,745; May 14.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,746; May 14.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,747; May 14.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,748; May 14.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,749; May 14.
- Clasen, Claus J. W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Railway-car truck. 1,712,750; May 14.
- Class, George M., assignor to Gisholt Machine Company, Madison, Wis. Turret-feed stop mechanism. 1,708,010; Apr. 9.
- Class, George M., assignor to Gisholt Machine Company, Madison, Wis. Lathe. 1,709,118; Apr. 16.
- Clatworthy, John, assignor to D. Gestetner, Limited, London, England. Sheet-feeding mechanism and duplicating and other machines comprising the same. 1,698,187; Jan. 8.
- Claud-Mantle, Arthur, Bridgeport, Conn., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating system. 1,703,278; Feb. 26.
- Claude, Georges, Paris, France, assignor, by mesne assignments, to Lazote Inc. Purification of coke-oven gases and the like. 1,702,683; Feb. 19.
- Claude, Georges, assignor to Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Purification of coke-oven gases and the like. 1,717,761; June 18.
- Claude, Georges, assignor to La Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Separation by liquefaction of complex gaseous mixtures. 1,724,004; Aug. 13.
- Claude, Georges, assignor to La Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France. Extraction of hydrogen from gaseous mixtures. 1,730,805; Oct. 8.
- Claude, Georges, Paris, and A. H. Gosselin, Montereau, assignors to La Société Chimique de la Grande Paroisse, Azole & Produits Chimiques, Paris, France. Producing simultaneously formates and gaseous mixtures rich in hydrogen. 1,735,107; Nov. 12.
- Claude, Maurice, Boulogne-sur-Seine, France. Speed-regulating device particularly applicable to blowpipes. 1,708,831; Apr. 9.
- Claude, Maurice, Boulogne-sur-Seine, France. Blowpipe for cutting apparatus. 1,728,104; Sept. 10.
- Claudel, Charles H., Neuilly-sur-Seine, France. Carbureting apparatus. 1,730,191; Oct. 1.
- Claus, Alfred, Brooklyn, N. Y. Composition for cutting edges of safety-razor blades. 1,717,960; June 18.
- Claus, Carl, Plainfield, assignor to Bound Brook Oil-Less Bearing Company, Boundbrook, N. J. Method of and machine for sizing composition metal members. 1,722,787; July 30.
- Claus, Curt A. (See Claus, Walter E., assignor.)
- Claus, Emil L., assignor to Claus Manufacturing Co., Milwaukee, Wis. Pilot-light construction. 1,720,656; July 9.
- Claus, Emil L., and W. E. Claus, assignors to Claus Manufacturing Company, Milwaukee, Wis. Oven-heat-regulating device. 1,725,442; Aug. 20.
- Claus Manufacturing Co. (See Claus, Emil L., assignor.)
- Claus Manufacturing Company. (See Claus, Emil L. and W. E., assignors.)
- Claus, Walter E. (See Claus, Emil L. and W. E.)
- Claus, Walter E., assignor of one-half to C. A. Claus, Milwaukee, Wis. Range or stove. 1,708,469; Apr. 9.
- Clausen, Carl H., assignor to Patentaktiebolaget Centralismörjning, Solvesborg, Sweden. Forced-lubrication apparatus. 1,711,589; May 7.
- Clausen, Henry P., Mamaronock, assignor to Western Electric Company, Incorporated, New York, N. Y. Sound and scene reproducing apparatus. 1,719,462; July 2.
- Clausen, Ingard M., and R. A. Pierce, Phoenix, Ariz. Rule for measuring weir discharge. 1,735,892; Nov. 19.
- Clausen, Ingard M., and R. A. Pierce, Phoenix, Ariz. Measuring weir discharge and rules therefor. 1,735,953; Nov. 19.
- Clausen, Sigurd, and V. G. Hanson, Brooklyn, N. Y., assignors to International Cigar Machinery Company. Bunch transfer for cigar machines. 1,740,575; Dec. 24.
- Clauser, Herbert, assignor to Victory Sparkler & Specialty Company, Elkton, Md. Torpedo. 1,705,961; Mar. 19.
- Clauser, Herbert, assignor to Victory Sparkler & Specialty Company, Elkton, Md. Torpedo. 1,705,962; Mar. 19.
- Clausing, George, assignor, by mesne assignments, to Vulcan Corporation, Portsmouth, Ohio. Last. 1,731,613; Oct. 15.
- Clausing, Louis F., Burlingame, assignor to Royal Metal Works, San Francisco, Calif. Heating device. 1,700,559; Jan. 29.
- Clauson, Abraham, et al. (See Freedman, Bernard, assignor.)
- Clauson, Adolph E. (See Chalmers, W., and Clauson.)
- Clauson, William, Boston, Mass. Liquid mixing and spraying device. 1,704,913; Mar. 12.
- Clavel, René, Basel-Augst, near Basel, Switzerland. Treatment of fibers of acetyl cellulose to produce woollike effects. 1,716,423; June 11.
- Clavel, René, Basel-Augst, Switzerland. Manufacture of leather substitutes. 1,727,862; Sept. 10.
- Clavette, Belonie, Edmundston, New Brunswick, Canada. Refrigerating plant. 1,736,648; Nov. 19.
- Clavette, Belonie, assignor of one-half interest to A. E. Levesque, Edmundston, New Brunswick, Canada. Window. 1,719,755; July 2.
- Clavin, James E., Providence, R. I. Window fastener or the like. 1,711,831; May 7.
- Clawson, Albert E., assignor to Taylor Instrument Companies, Rochester, N. Y. Recording and controlling mechanism. 1,702,892; Feb. 19.
- Clawson, Feramor L., Los Angeles, Calif. Cape. 1,705,963; Mar. 19.
- Clawson, Monroe S., Upper Montclair, N. J. Alloy for high-speed steel. 1,729,154; Sept. 24.
- Claxton, Howard J., Chicago, Ill. Valve-gear control. 1,734,795; Nov. 5.
- Clay, James S., assignor to Freeman Mfg. Co., Racine, Wis. Boiler. 1,699,223; Jan. 15.
- Clay, Joseph B., Cedar Falls, Iowa. Combination gate and trough. 1,715,493; June 4.
- Clay, Philip E. F., Winnipeg, Manitoba, Canada. Machine for making surgical elastic garments. 1,715,224; May 28.
- Clay, Reginald S., London, England. Television and like apparatus. 1,719,756; July 2.
- Claybaugh, Ralph W., Pacific Grove, and G. D. Patrick, assignors of one-third to V. H. Patrick, Monterey, Calif. Air heating and circulating fireplace. 1,717,228; Sept. 3.
- Claybourn, Leslie W., Milwaukee, Wis. Mold-bearer-cutting machine. 1,704,311; Mar. 5.
- Claybourn, Leslie W., Milwaukee, Wis. Shaving machine. 1,714,212; May 21.
- Claybourn, Leslie W., Milwaukee, Wis. Shaving machine. 1,714,213; May 21.
- Claybourn, Leslie W., Milwaukee, Wis. Inking mechanism for printing machinery. 1,715,741; June 4.
- Claybourn, Leslie W., Milwaukee, Wis. Machine for reducing printing plates to uniform thickness. 1,738,759; Dec. 10.
- Claybrook, Bennie R., Bryant, assignor of one-third to C. C. Snellings and one-third to E. H. Snellings, Shawnee, Okla. Pipe wrench. 1,726,978; Sept. 3.
- Claypoole, Walter, Forest Hills, assignor to The Texas Company, New York, N. Y. Method and apparatus for utilizing high-frequency sound waves. 1,738,565; Dec. 10.
- Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Loooper-thread-controlling mechanism for sewing machines. 1,738,525; Dec. 10.
- Clayton, Carlton, Sydney, New South Wales, Australia. Portable ground stanchion usable as a strainer post. 1,698,672; Jan. 8.
- Clayton, Edwin C. (See Hooper, J. P., and Clayton.)
- Clayton, Frank M., Spokane, Wash. Food container. 1,716,367; June 11.
- Clayton Gin Compress Company. (See Mackenzie, Alexander S., assignor.)
- Clayton, Herbert D., Hill City, Kans. Merry-go-round. 1,733,005; Oct. 22.
- Clayton, John, Port Huron, Mich. Tenon-cutting guide block for saw tables. 1,713,329; May 14.



- Clayton, Joseph, New York, N. Y. Take-up or tensioning device. 1,705,899; Mar. 19.
- Clayton, Joseph, New York, N. Y. Winding mechanism. 1,725,443; Aug. 20.
- Clayton-Kennedy, Kenneth E., New York, N. Y., assignor to American Hydrocarbon Company, Inc. Apparatus for distilling oil shale. 1,717,786; June 18.
- Clayton & Lambert Manufacturing Company. (See Blaske-witz, W., and Ironside, assignors.)
- Clayton & Lambert Manufacturing Company. (See Blaske-witz, W., Overly, Lambert, and Ironside, assignors.)
- Clayton & Lambert Mfg. Co. (See Groehn, Otto J., as-signor.)
- Clayton & Lambert Manufacturing Co. (See Ironside, James, assignor.)
- Clayton & Lambert Manufacturing Company. (See Overly, Clarence B., assignor.)
- Clayton Mark & Company. (See Windsor, John F., as-signor.)
- Clayton, Martin M., Baden, Pa., assignor to National Metal Molding Company. Outlet-box connector. 1,699,280; Jan. 15.
- Clayton Oil and Refining Company. (See Cross, Walter M., assignor.)
- Clayton, William. (See Chipman, J., and Clayton.)
- Claytor, Edward M., Wilkinsburg, Pa., assignor to West-inghouse Electric & Manufacturing Company. Motor-control system. 1,697,163; Jan. 1.
- Claytor, Edward M., Wilkinsburg, Pa., assignor to West-inghouse Electric & Manufacturing Company. Circuit-protective device. 1,705,716; Mar. 19.
- Claytor, Edward M., Wilkinsburg, and C. H. Hodgkins, Pittsburgh, Pa., assignors to Westinghouse Electric Manufacturing Company. Accelerating device. 1,716,164; June 4.
- Claytor, Edward M., Wilkinsburg, Pa., assignor to West-inghouse Electric & Manufacturing Company. Control apparatus. 1,725,256; Aug. 20.
- Claytor, Edward M., Forest Hills Borough, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal element. 1,725,255; Aug. 20.
- Claytor, Edward M., Forest Hills Borough, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,728,785; Sept. 17.
- Claytor, Edward M., Edgewood Acres, and H. E. Cobb, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Current transformer. 1,736,994; Nov. 26.
- Claytor, Spry O., Newark, Ohio. Latch. 1,704,554; Mar. 5.
- Clean-Be-Tween Tooth Brush Company. (See Bowen, Joseph R., assignor.)
- Cleanners Equipment Corporation, The. (See Fuqua, Clarence V., assignor.)
- Clear Vision Pump Company. (See Manson, Thomas M., assignor.)
- Clearfield Machine Company. (See Reed, Frank B., as-signor.)
- Cleaveland, Walter A. (See Higley, Frank R., assignor.)
- Cleaver, Thoburn G., Jamaica, N. Y. Laundry sorting means. 1,719,423; July 2.
- Cleaves, George C., Wollaston, assignor to W. H. Doble, Quincy, Mass. Wire brush. 1,713,027; May 14.
- Cleaves, George C., Wollaston, assignor, by mesne assign-ments, to W. H. Doble, Quincy, Mass. Machine for hand-ling brush material. 1,714,547; May 28.
- Cleaves, William S., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 1,739,061; Dec. 10.
- Cleland, Andrew V., Minneapolis, Minn. Seed huller. 1,708,604; Apr. 9.
- Clemence, Edward. (See Simmons, T. H. J., and Clemen-ce.)
- Clemence, Elliott, assignor to Monowatt Corporation, New York, N. Y. Heater plug. 1,704,726; Mar. 12.
- Clemencet, Louis E., Paris, France. Washing machine. 1,706,954; Mar. 26.
- Clemens, Clarence F., and A. H. Kemper, Dayton, Ohio. Steam boiler. 1,704,788; Mar. 12.
- Clemens, Clarence F., and A. H. Kemper, Dayton, Ohio. Steam boiler. 1,738,817; Dec. 10.
- Clemens, John G., Eggertsville, assignor to Pierce Renew-able Fuses, Inc., Buffalo, N. Y. Renewable fuse. 1,725,131; Aug. 20.
- Clemens, Otto, Berlin-Charlottenburg, Germany. Curb without mouthpiece. 1,734,156; Nov. 5.
- Clement, Charles G., assignor to Highway Trailer Com-pany, Edgerton, Wis. Covered dumping body. 1,697,047; Jan. 1.
- Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Tilting-body lock. 1,716,877; June 11.
- Clement, Charles G., assignor to Highway Trailer Com-pany, Edgerton, Wis. Drop-frame trailer. 1,722,558; July 30.
- Clement, Charles G., assignor to Highway Trailer Com-pany, Edgerton, Wis. Sliding cover for dumping bodies. 1,734,327; Nov. 5.
- Clement, Edward E. (See Lucas, A. F. G., and Clement.)
- Clement, Edward E., assignor to E. F. Colladay, Wash-ington, D. C. Radio broadcast distributing system. 1,706,377; Mar. 19.
- Clement, Edward E., assignor to E. F. Colladay, Washing-ton, D. C. Trunking system for radiodistribution. 1,706,378; Mar. 19.
- Clement, Edward E., assignor to E. F. Colladay, Washing-ton, D. C. Radio broadcast distributing system. 1,706,379; Mar. 19.
- Clement, Edward E., assignor to E. F. Colladay, Washing-ton, D. C. Radio telephone system. 1,706,380; Mar. 19.
- Clement, Edward E., assignor to E. F. Colladay, Washing-ton, D. C. Trunking system of radiodistribution. 1,706,381; Mar. 19.
- Clement, Edward E., assignor to E. F. Colladay, Washing-ton, D. C. Radio broadcast distributing system. 1,706,382; Mar. 19.
- Clement, Edward E., assignor to E. F. Colladay, Washing-ton, D. C. Radio broadcast distributing system. 1,706,383; Mar. 19.
- Clement, Edward E., assignor to E. F. Colladay, Wash-ington, D. C. Frequency control for radio distributing. 1,730,407; Oct. 8.
- Clement, Frank M., Beloit, Wis. Power-driven plow. 1,726,177; Aug. 27.
- Clement, George S., Edna, Tex. Radiator stand. 1,732,081; Oct. 15.
- Clement, Hans, New York, N. Y., assignor to General Op-tical Co., Inc. Krafometer. 1,738,886; Dec. 10.
- Clement, Hans, New York, and G. S. Dey, Mount Vernon, N. Y., assignors to General Optical Company. Ophthal-mological apparatus. 1,701,258; Feb. 5.
- Clement, Herman, Pittsburgh, Pa. Railing-post base. 1,725,507; Aug. 20.
- Clement, Ivan C., Wakefield, assignor to Submarine Signal Corporation, Boston, Mass. Sound receiver and trans-mitter. 1,729,161; Sept. 24.
- Clement, Lewis M., Mountain Lakes, assignor to Brandes Laboratories, Incorporated, Newark, N. J. Radiocabinet. Des. 79,498; Oct. 1.
- Clement, Lewis M., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio receiving circuit. 1,709,061; Apr. 16.
- Clement, Lewis M., Mountain Lakes, N. J., and J. F. Niel-sen, Winfield, assignors to F. A. D. Andrea, Inc., New York, N. Y. Loud-speaker motor unit. 1,721,480; July 16.
- Clément, Louis E., Meudon, France, assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del. Solvent for nitrocellu-loses. 1,713,512; May 21.
- Clément, Louis E., Meudon, France, assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del. Solvent for acetylcellu-lose. 1,713,997; May 21.
- Clement, Walter J., assignor to The Bossert Corporation, Utica, N. Y. Rotary hammer mill. 1,728,392; Sept. 17.
- Clements, Frank O., Detroit, Mich., assignor to General Motors Research Corporation, Dayton, Ohio. Air cleaner. 1,717,369; June 18.
- Clements, Stiles O. (See Watkins, K. N., and Clements.)
- Clements, Wellington I., Norfolk, Va. Wind and rain de-lector for windshields. 1,729,566; Sept. 24.
- Clements, Wellington I., Norfolk, Va. Wind and rain deflector for windows. 1,732,082; Oct. 15.
- Clementson, Carl M., and S. O. H. Malmö, Sweden. Inter-nal-combustion engine. 1,734,076; Nov. 5.
- Clementson, Sven O. H. (See Clementson, Carl M. and S. O. H.)
- Clemetson, Selmer A., assignor to The Locklite Company, Iron Mountain, Mich. Screw-driver chuck. 1,726,693; Sept. 3.
- Clemmons, Donald W., and W. H. Stoll, assignors to Northern Engraving Company, La Crosse, Wis. Name-plate fastener. 1,709,007; Apr. 16.
- Clemmons, Herbert D., Sturgis, Mich., assignor to Scovill Manufacturing Company, Waterbury, Conn. Ball cock. 1,734,762; Nov. 5.
- Clemson Bros., Inc. (See Clemson, George N., assignor.)
- Clemson, George N., assignor to Clemson Bros., Inc., Mid-dletown, N. Y. Saw handle. 1,718,031; June 18.
- Clench, William A., Alameda, Calif., assignor to Standard Disk Wheel Company, Seattle, Wash. Rim lock and op-erating means therefor. 1,707,458; Apr. 2.
- Clench, William A., Alameda, Calif., assignor to Standard Disk Wheel Company, Seattle, Wash. Rim lock. 1,728,262; Sept. 17.
- Clendon, George W., Piermont, N. Y., assignor to Com-bustion Engineering Corporation. Pulverized-fuel burner. 1,708,496; Apr. 9.
- Clerc, Reinhard. (See Jordan, H., Schoeller, and Clerc.)
- Clerc, Reinhard. (See Schoeller, W., Jordan, and Clerc.)
- Clermont Machine Co. (See Surico, C., and Cardone, as-signors.)
- Cleveland, Almond W., Sherbrooke, Quebec, Canada, and O. C. Morse, Stoneham, Mass., assignors to W. A. Stubbs, Sherbrooke, Canada. Rack. 1,714,258; May 21.
- Cleveland Brass Manufacturing Company, The. (See Hengesbach, Leo J., assignor.)
- Cleveland-Cliffs Iron Company, The. (See Twining, Ralph H., assignor.)
- Cleveland Crane and Engineering Company, The. (See Garnett, Arlond C., assignor.)
- Cleveland Crane and Engineering Company, The. (See Rosenthal, Morris G., assignor.)
- Cleveland Crane & Engineering Company, The. (See Wehr, William G., assignor.)
- Cleveland Folding Machine Company, The. (See Dalton, Raymond S., assignor.)
- Cleveland Folding Machine Company, The. (See Glasgow, William, assignor.)



- Cleveland Folding Machine Company, The. (See Olson, Andrew, assignor.)
- Cleveland Folding Machine Company, The. (See Tufts, Lesley R., assignor.)
- Cleveland Gas Burner & Appliance Company, The. (See Kerr, Harry E., assignor.)
- Cleveland Graphite Bronze Company, The. (See Bezenberger, Fred K., assignor.)
- Cleveland Graphite Bronze Company, The. (See Burton, Charles S., assignor.)
- Cleveland Graphite Bronze Company, The. (See Johnson, Carl W., assignor.)
- Cleveland Graphite Bronze Company, The. (See Kerruish, Edward P., assignor.)
- Cleveland Graphite Bronze Company, The. (See Landon, Charles H., assignor.)
- Cleveland Graphite Bronze Company, The. (See Palm, John V. O., assignor.)
- Cleveland, Harry S., Minneapolis, Minn. Refrigerator. 1,708,605; Apr. 9.
- Cleveland Heater Company, The. (See Friedman, Arthur, assignor.)
- Cleveland Heater Company, The. (See Snow, Wallace J., assignor.)
- Cleveland Hobbing Machine Company, The. (See Sommer, L. A., and Adams, assignors.)
- Cleveland Implement Manufacturing Company, The. (See Hist, John, assignor.)
- Cleveland, Lemmie R., Boston, Mass., assignor to National Academy of Sciences, Washington, D. C. Sterilization and preservation of fruit juices. 1,725,956; Aug. 27.
- Cleveland, Minot, assignor to Anderson Box Company, Anderson, Ind. Carton. 1,698,908; Jan. 15.
- Cleveland Planer Company, The. (See Jenne, Jacob, assignor.)
- Cleveland Pneumatic Tool Company, The. (See Greve, Louis W., assignor.)
- Cleveland Pneumatic Tool Company, The. (See Wallace, John F., assignor.)
- Cleveland Punch & Shear Works Company, The. (See Schloz, Arthur H., assignor.)
- Cleveland Rock Drill Company, The. (See Renfer, John E., assignor.)
- Cleveland Rock Drill Company, The. (See Richardson, Leo L., assignor.)
- Cleveland Steel Products Corporation. (See Braun, Herman F., assignor.)
- Cleveland Switchboard Company, The. (See Hafemeister, Fred F., assignor.)
- Cleveland Trust Company, The. (See Brush, Charles F., Jr., assignor.)
- Cleveland Trust Company, The. (See Gruetter, John R., assignor.)
- Cleveland Trust Company, The. (See Loew, Charles H., assignor.)
- Cleveland Trust Company. (See Loew, P. W., and McKee, assignors.)
- Cleveland Trust Company, The. (See McCoy, William C., assignor.)
- Cleveland Trust Company, The. (See Ness, Harold J., assignor.)
- Cleveland Trust Company, The. (See Reiter, Ralph H., assignor.)
- Cleveland Trust Company, The. (See Ryan, Daniel J., assignor.)
- Cleveland Trust Company as trustee. (See Jardine, Frank, assignor.)
- Cleveland Trust Company, executor, The. (See Plantinga, Pierre.)
- Cleveland Universal Parts Company, The. (See Laughlin, S. L., and Braun, assignors.)
- Cleveland Worm and Gear Company, The. (See Acker, George H., assignor.)
- Clevenger, D. R., et al. (See Larrabee, Gus J., assignor.)
- Clevenger, John H., et al. (See Abel, Joseph C., assignor.)
- Clewell, Robert L., Canton, Ohio. Fish lure. 1,701,528; Feb. 12.
- Clifford, Addie, New York, N. Y. Bottle cover. 1,725,341; Aug. 20.
- Clifford, Albert M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Antioxidant or age resister. 1,717,093; June 11.
- Clifford, Albert M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Antioxidant or age resister. 1,739,480; Dec. 10.
- Clifford, Charles W., assignor to Robertson Art Tile Company, Trenton, N. J. Tile-fettling machine. 1,727,863; Sept. 10.
- Clifford Corporation, The. (See Clifford, Walter B., assignor.)
- Clifford, Frank A., assignor of one-half to H. H. Hopkins, St. Louis, Mo. Truck. 1,697,346; Jan. 1.
- Clifford, John, Oakland, Calif. Direction indicator. 1,708,606; Apr. 9.
- Clifford, Leslie B., Texarkana, Ark. Air or gas lift for fluids. 1,740,807; Dec. 24.
- Clifford Manufacturing Co. (See Clifford, Walter B., assignor.)
- Clifford, Patrick J., Avoca, Pa., assignor, by mesne assignments, to Train Control Corporation of America. Automatic train-stop system. 1,729,705; Oct. 1.
- Clifford, Patrick J., Falls, Pa., assignor to Train Control Corporation of America, New York, N. Y. Rotary distance train-control mechanism. 1,705,658; Mar. 19.
- Clifford, Patrick J., Falls, Pa., assignor to Train Control Corporation of America, New York, N. Y. Automatic train-control apparatus. 1,716,208; June 4.
- Clifford, Patrick J., Peckville, Pa., assignor to Train Control Corporation of America, New York, N. Y. Automatic train-control apparatus. 1,716,209; June 4.
- Clifford, Roger W., Schenectady, N. Y. Throttle valve. 1,720,665; July 16.
- Clifford, Walter B., Cambridge, assignor to Clifford Manufacturing Co., Boston, Mass. Water control. 1,733,525; Oct. 29.
- Clifford, Walter B., Cambridge, assignor to Clifford Manufacturing Co., Boston, Mass. Thermostatic control of cooling circulation. 1,734,963; Nov. 12.
- Clifford, Walter B., Framingham, assignor to The Clifford Corporation, Boston, Mass. Method and apparatus for refining lubricating oil in hydrocarbon motors. 1,725,392; Aug. 20.
- Clifford, Walter B., Framingham, assignor to The Clifford Corporation, Boston, Mass. Oil-rectifying apparatus for internal-combustion motors. 1,734,666; Nov. 5.
- Clifford, William H., Baling, London, England. Medical electric lamp. 1,729,609; Oct. 1.
- Clifford, William H., London, England. Therapeutic lamp. 1,729,647; Oct. 1.
- Clifton, Claude S., Chicago, Ill. Hydroplane. 1,720,167; July 9.
- Clifton, Ernest H. (See Henderson, A. J., and Clifton.)
- Clifton, William E., assignor, by mesne assignments, to Clifphone & Records Limited, London, England. Sound projector. 1,735,378; Nov. 12.
- Clifphone & Records Limited. (See Clifton, William E., assignor.)
- Climax Engineering Co. (See Alexander, Robert L., assignor.)
- Climax Engineering Company. (See Wishart, William, assignor.)
- Clinch, Charles G., N. Rigabar, and C. R. Gibbs, Carthage; said Gibbs assignor to E. B. Eddy, Watertown, N. Y. Indicating and synchronizing the velocities of two elements. 1,701,495; Feb. 12.
- Clinch, Dorothy, and A. Blache, Englewood, N. J., assignors to The W. F. Powers Company, New York, N. Y. School game. 1,701,557; Feb. 12.
- Cline, Allan J., Chicago, Ill. Driving mechanism for printing presses. 1,734,077; Nov. 5.
- Cline, Allan J., assignor to Cline Electric Manufacturing Company, Chicago, Ill. Paper-roll stand. 1,732,740; Oct. 22.
- Cline, Earl E., and E. W. Holmes, assignors to Ernest Holmes Company, Chattanooga, Tenn. Lifting Jack. 1,714,548; May 28.
- Cline Electric Manufacturing Company. (See Cline, Allan J., assignor.)
- Cline Electric Manufacturing Company. (See Dekle, Thelma I., assignor.)
- Cline Electric Manufacturing Company. (See Hammer, Edwin W., assignor.)
- Cline, William, Lancaster, Pa. Swinging fan. 1,707,387; Apr. 2.
- Clingan, Frank. (See Sherrill, H., and Clingan.)
- Clinger, Joseph M., Indianapolis, Ind. Hand controller for motor starters. 1,703,709; Feb. 26.
- Clingenstein, Heinrich. (See Grimmel, H., and Clingenstein.)
- Clingenstein, Heinrich, Cologne, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Green trisazo dyes for cotton. 1,701,717; Feb. 12.
- Clingenstein, Heinrich, Cologne-on-the-Rhine, Germany, and H. W. Grimmel, Albany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Primary disazo dyes derived from diamino carbazoles and arylimino compounds. 1,697,107; Jan. 1.
- Clinton, Frederick D., Milwaukee, Wis. Spraying mechanism for dishwashing machines. 1,733,249; Oct. 29.
- Clinton, Harry D., Johnson City, N. Y. Spool and bobbin. 1,707,076; Mar. 26.
- Clinton, James C., Chillicothe, Ohio. Electric switch. 1,709,775; Apr. 16.
- Clinton Motors Corporation. (See Hoffmann, Edward A., assignor.)
- Clinton, William H., Burlingame, Calif. Coffee-urn-flushing device. 1,709,657; Apr. 16.
- Clisson, Albert B., and A. R. Braun, assignors to The Prosperity Co. Inc., Syracuse, N. Y. Shoulder-pressing means for shirt-pressing machines. 1,720,207; July 9.
- Clithero, Olive E., Janesville, Wis. Stove tray attachment. 1,708,497; Apr. 9.
- Cloer, Venus U., Wichita Falls, Tex. Selecting cottonseed. 1,718,332; June 25.
- Cloke, Allen D., assignor to The Youngstown Pressed Steel Company, Warren, Ohio. Sheet-material-supporting structure. 1,712,136; May 7.
- Clokey, Allison A., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration device. 1,717,094; June 11.
- Clokey, Allison A., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Potential-limiting device. 1,717,095; June 11.
- Close, Lyman W. (See Withrow, J. E., and Close.)
- Closure Service Company, The. (See Carvalho, Leslie R. N., assignor.)
- Clothier, Henry W. (See Allan, A., and Clothier.)



- Clothier, Henry W., Wallsend-on-Tyne, and R. W. Biles, Balcome, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric protective system. 1,728,105; Sept. 10.
- Cloud, Bruce M., Montpelier, Ind. Method and means for recovering oil. 1,697,260; Jan. 1.
- Cloud, Harry D., and W. M. Ingram, Lexington, Ky. Metal awning. 1,710,449; Apr. 23.
- Clough, Newsome H., Chelmsford, England, assignor to Radio Corporation of America. Variable inductance. 1,702,073; Feb. 12.
- Clough, Woodman W. (See Buc, H. E., and Clough.)
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Forging machine. 1,727,698; Sept. 10.
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Relief pitman. 1,728,203; Sept. 17.
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Automatic stop. 1,730,806; Oct. 8.
- Clouse, William L., Tiffin, Ohio, and E. S. Jefferies, Hamilton, Ontario, Canada, assignors to The National Machinery Co., Tiffin, Ohio. Feeder. 1,727,634; Sept. 10.
- Clov, James B., & Sons. (See Wernlé, Karl A., assignor.)
- Clubb, David H., Olathe, Colo. Cultivator. 1,726,384; Aug. 27.
- Cluett, Peabody & Co. (See Cluett, Sanford L., assignor.)
- Cluett, Sanford L., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Making textiles and textile articles. 1,734,896; Nov. 5.
- Cluett, Sanford L., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Device for shrinking cloth. 1,734,897; Nov. 5.
- Cluff, William, New York, N. Y. Emblem disk for spare-tire covers. 1,704,555; Mar. 5.
- Clulee, Harry I., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Forming spouts or handles for coffee-cups or similar articles. 1,719,169; July 2.
- Clum Manufacturing Company. (See Winning, Robert K., assignor.)
- Clurman, Will N., Long Beach, N. Y. Controlling device for electric motors. 1,707,459; Apr. 2.
- Clutter, Charles E., and L. R. Russell, assignors to The Marion Steam Shovel Company, Marion, Ohio. Dipper-tripping device. 1,700,468; Jan. 29.
- Clyde Iron Works. (See Egorje, Oscar B., assignor.)
- Clyde Iron Works. (See McGiffert, John R., assignor.)
- Clyde Iron Works. (See Ramsey, Robert P., assignor.)
- Clydesdale, James, Hempstead, N. Y. Building construction. 1,717,493; June 18.
- Clymer, Vincent S. (See Smith, William J., assignor.)
- Cneesh, Adam, Los Angeles, Calif. Textile fabric or similar article. Des. 78,445; May 7.
- Cneesh, Adam, Los Angeles, Calif. Textile fabric or similar article. Des. 78,446; May 7.
- CO<sub>2</sub> Fire Equipment Co. (See Johann, Charles S., assignor.)
- Coal and Oil Products Corporation. (See Schwarz, Alfred, assignor.)
- Coale, Asa H., Philadelphia, Pa. Pan and tray. 1,704,175; Mar. 5.
- Coan, Frank, Bellaire, Park, N. Y. Adjustable mask for cameras. 1,715,593; June 4.
- Coate, Noah, G. C. Vankirk, and W. V. Coate, Greenville, Ohio. Nonskid attachment for automobiles. 1,703,081; Apr. 9.
- Coate, William V. (See Coate, N., Vankirk, and Coate.)
- Coates, Andrew P., Sussex, New Brunswick, Canada. Music turner. 1,723,643; Aug. 6.
- Coates, Charles B., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Electrical switch. 1,720,541; July 9.
- Coates, Charles B., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Switch lock. 1,724,907; Aug. 20.
- Coates, Charles B., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Flame-proof switch mechanism. 1,731,706; Oct. 15.
- Coates, Frank, Cleadon, and J. Mirrey, East Boldon, assignors to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Electric switch gear. 1,729,538; Sept. 24.
- Coates, Frederick, Cincinnati, Ohio, assignor to Richmond Fireproof Door Co., Richmond, Ind. Strip-forming machine. 1,708,872; Apr. 9.
- Contes, Joseph S., Goshen, N. Y. Internal-combustion engine. 1,731,998; Oct. 15.
- Coates, Robert B. (See Rabbes, Henry H., assignor.)
- Coats, Charles E., Baton Rouge, La., assignor to O. L. Barneyeb, Columbus, Ohio. Manufacture of vegetable char. 1,729,162; Sept. 24.
- Coatsworth, Caleb S., Chatham, Ontario, assignor of one-fourth to A. Selak, Windsor, Canada, and three-fourths to M. J. Dikeman, Detroit, Mich. Beet-harvesting machine. 1,711,990; May 7.
- Coatsworth, Frank E., Lincoln, Nebr. Jacket for incubator lamps. 1,706,439; Mar. 26.
- Coatsworth, Frank E., Lincoln, Nebr. Incubator tray and egg-turning slide. 1,708,356; Apr. 9.
- Cobb, Charles H., Newton, assignor to Filing Equipment Bureau, Incorporated, Boston, Mass. Index card. 1,710,864; Apr. 30.
- Cobb, Ernest B., Jersey City, and A. Holmes, Newark, N. J., assignors to Standard Oil Development Company. Making white petrolatum. 1,707,187; Mar. 26.
- Cobb, Eugene A., Swampscott, Mass. Compressor. 1,727,049; Sept. 3.
- Cobb, Harold E. (See Claytor, E. M., and Cobb.)
- Cobb, Harry L. (See Bowling, R. T., and Cobb.)
- Cobb, Henry Z., Providence, R. I., assignor to The Shoe Hardware Company, Waterbury, Conn. Multiple fastening device. 1,703,924; Mar. 5.
- Cobb, Robert W., assignor to Julian Pump and Manufacturing Company, Jamestown, N. Y. Visible dispensing device. 1,730,118; Oct. 1.
- Cobb, William T. (See Dorgan, J. F., and Ales, assignors.)
- Cobel, Ray C., assignor to A. H. Heisey & Company, Newark, Ohio. Glass goblet. Des. 77,673; Feb. 12.
- Cobelli, Edwin G., Miami, Fla. Salt shaker. 1,718,684; June 25.
- Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Purox Company, Denver, Colo. Cutting keystone-shaped slots. 1,701,145; Feb. 5.
- Coberly, Clarence J., assignor to Kobe, Inc., Los Angeles, Calif. Converging jet cutting tip for cutting torches. 1,729,206; Sept. 24.
- Coberly, Clarence J., assignor to Kobe, Inc., Los Angeles, Calif. Cutting torch with multiplicity of orifices. 1,729,207; Sept. 24.
- Coberly, Clarence J., assignor to Kobe, Inc., Los Angeles, Calif. Electrically-driven oil-well pump. 1,740,003; Dec. 17.
- Coberly, Clarence J., R. G. Wulff, and W. H. Holland, Los Angeles, Calif., assignors, by mesne assignments, to Union Carbide and Carbon Research Laboratories, Inc. Acetylene generator. 1,723,679; Aug. 6.
- Coblens, George E. (See Morris, Albert W., assignor.)
- Coburn, Abbott, Chicago, Ill. Shingle construction. 1,709,776; Apr. 16.
- Coburn, Hiram S., deceased, Malden, Mass.; L. J. Dran, executrix. Creeper for boots and shoes. 1,720,168; July 9.
- Coburn Trolley Track Mfg. Co., The. (See McTigue, Francis H., assignor.)
- Coburn, William H. (See Brownlee, R. H., and Coburn.)
- Coburn, William H. (See Kirk, W. J., Brownlee, and Coburn.)
- Coburn, William H., and C. Kiernan, assignors of one-third to E. H. Gilbert, Morgantown, W. Va. Trackless mine motor. 1,733,526; Oct. 29.
- Coby, George, Pawtucket, R. I. Fountain pen. Des. 79,456; Sept. 24.
- Cocanari, Silvio, Rome Italy, assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del. Cut-film case. 1,700,583; Jan. 29.
- Cocherell, Arthur B. (See Wright, W. C., and Cocherell.)
- Cochius, Petrus M., assignor to the firm Naamlooze Vennootschap Glasfabriek "Leerdam," voorheen Jeckel, Mijnsen & Co., Leerdam, Netherlands. Preparing vitrified material. 1,724,747; Aug. 13.
- Cochran, A. L., et al. (See Higley, Frank R., assignor.)
- Cochran, Albert D., Canton, Ohio. Veneer for building walls. 1,704,035; Mar. 5.
- Cochran, Albert W., Portland, Oreg. Router bit. 1,702,812; Feb. 19.
- Cochran, Joseph H., Little Rock, Ark. Container for granular material. 1,719,923; July 9.
- Cochran, Paul B., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Improving tensile strength of fabric materials. 1,699,779; Jan. 22.
- Cochran, William E., Portland, Oreg. Heel and arch support. 1,701,804; Feb. 12.
- Cochrane, Charles H., Chicago, Ill. Printing press. 1,711,489; May 7.
- Cochrane, Charles H., New York, N. Y. Humidifying apparatus. 1,727,099; Sept. 3.
- Cochrane, H. S. B. W., Corporation. (See Dodd, Gerald D., assignor.)
- Cochrane, Walter S., Flint, assignor to General Motors Corporation, Detroit, Mich. Crank-case ventilation. 1,713,262; May 14.
- Cockburn, Francis B., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Clutch mechanism for lathe apron transmission. 1,709,339; Apr. 16.
- Cockburn, William R., Otahuhu, assignor of one-half to A. H. O'Leary, Auckland, New Zealand. Milking-machine teat cup. 1,700,025; Jan. 22.
- Cocker, George B., Gastonia, N. C. Stop-control means for textile machinery. 1,714,126; May 21.
- Cocklin, Lewis A., Griswold, Iowa. Wick for liquid-fuel burners and making same. 1,733,138; Dec. 3.
- Cocks, Edgar, Los Angeles, Calif. Folding bed. 1,707,509; Apr. 2.
- Cocks, Edgar, Los Angeles, Calif. Door bed. 1,725,752; Aug. 27.
- Cocks, George W., Manasquan, N. J. Check book. 1,717,435; June 18.
- Cocks, Harry J., assignor of one-half to N. C. Barnes, Des Moines, Iowa. Dispenser. 1,715,335; May 28.
- Cocks, Harry J., assignor to Metal Products Company, Des Moines, Iowa. Accelerator foot rest. 1,715,336; May 28.
- Cocores, Stella. (See Prodromos, George, assignor.)
- Cocreham, Wallace. (See Sanderson, J., and Cocreham.)
- Coddington, Edwin D., assignor to Wisconsin Bridge & Iron Company, North Milwaukee, Wis. Fabricating structural steel. 1,715,694; June 4.
- Coddo, William E., Chicago, Ill. Shaving-brush attachment. 1,739,211; Dec. 10.



- Coe, Samuel M., Chicago, Ill. Magnetic ventilator system. 1,715,409; June 4.
- Coe, Samuel M., Chicago, Ill. Safety vehicle body. 1,733,331; Oct. 29.
- Coe, Samuel M., Detroit, Mich. Wall structure for gondolas or the like. 1,733,332; Oct. 29.
- Coderre, Wilford A., Marshall, Minn. Combined mop and wringer. 1,727,864; Sept. 10.
- Codina, Peter, assignor to The Dauber-Swab Co., Inc., Jersey City, N. J. Swab-forming machine. 1,702,813; Feb. 19.
- Codrick, John H., Philadelphia, Pa. Nozzle for vacuum cleaners. 1,705,900; Mar. 19.
- Codrick, John H., Philadelphia, Pa. Vacuum cleaner. 1,714,497; May 28.
- Cody, Martin M., Chicago, Ill. assignor to Crane Packing Company. Machine for forming gaskets. 1,736,770; Nov. 26.
- Cody, Michael J., Council Grove, and J. I. Jobe, Topeka, Kans. Cotter pin. 1,725,700; Aug. 20.
- Coe, Bert, Farmington, Mich. Animal trap. 1,728,228; Sept. 17.
- Coe, Daniel W., Montreal, Quebec, Canada. Revolving grapple. 1,712,870; May 14.
- Coe, Harlan, Spokane, Wash. Incinerator. 1,700,560; Jan. 29.
- Coe, Harrison S. (See Blomfield, A. L., Harner, and Coe.)
- Coe, Harrison, S., La Cygne, Kans. assignor to The Dorr Company, New York, N. Y. Liquid separator. 1,709,971; Apr. 23.
- Coe, James R., assignor to American Brass Company, Waterbury, Conn. Adjusting means for rolling-mill rolls. 1,741,405; Dec. 31.
- Coe, John E., Lakewood, N. Y. Valise. Des. 78,154; Apr. 2.
- Coe Manufacturing Company, The. (See Milbourn, Frank W., assignor.)
- Coe Manufacturing Company, The. (See Robinson, Thomas, assignor.)
- Coen Company. (See Sherwood, Carlyle J., assignor.)
- Coffelder, Thomas N., Pittsburgh, Pa. Making radiator-core structures. 1,733,646; Oct. 29.
- Coffey, Barton H., Elizabeth, N. J., and G. S. Dauphinee, assignors to The Cooling Tower Co. Inc., New York, N. Y. Spray nozzle. 1,722,733; July 30.
- Coffey, Daniel J., New York, N. Y. Display device. 1,740,071; Dec. 17.
- Coffey, Edward I. (See Keays, R. J., and Coffey.)
- Coffey, Frances E., Kansas City, Mo. Vending cart. 1,727,395; Sept. 10.
- Coffey, Irvyn E., Tucson, Ariz. Transmission-controlling mechanism. Re17,346; July 2.
- Coffey, John B. and S. F., Nashville, Tenn. Vending machine. 1,722,838; July 30.
- Coffey, Joseph M., Schenectady, assignor to Mica Insulator Company, New York, N. Y. Mica-flake-sorting machine. 1,720,666; July 16.
- Coffey, Oscar L., assignor to Whiting Corporation, Harvey, Ill. Drop-pit mechanism. 1,706,211; Mar. 19.
- Coffey, Robert C., Gastonia, N. C. Fire alarm. 1,711,920; May 7.
- Coffey, Sam F. (See Coffey, John B. and S. F.)
- Coffield, Willard M., and T. C. Moore, Little Rock, Ark. Steam fan drier. 1,738,640; Dec. 10.
- Coffin, Arthur B., and J. C. Haskett, Spiceland, Ind. Road drag. 1,706,914; Mar. 26.
- Coffin, Francis P., Schenectady, N. Y., assignor to General Electric Company. Conduit for conveying high-temperature fluids. 1,714,948; May 28.
- Coffin, Joel S., jr. (See Schellens, C. A., and Coffin.)
- Coffin, Joel S., jr. (See Schellens, E. L., and Coffin.)
- Coffin, Joseph G., and F. M. Silverstein, assignors to Mustomatik Specialties, Inc., New York, N. Y. Mustard-dispensing device. 1,699,347; Jan. 15.
- Coffin, Joseph G., and F. M. Silverstein, assignors to Mustomatik Specialties, Inc. New York, N. Y. Mustard-dispensing device. 1,717,496; June 18.
- Coffin, Joseph G., New York, N. Y. Dispensing device. 1,731,764; Oct. 15.
- Coffin, Joseph G., assignor to Mustomatik Specialties, Inc., New York, N. Y. Dispensing device. 1,723,229; Aug. 6.
- Coffin Valve Company. (See Belcher, Donald M. assignor.)
- Coffman, Jesse M., Vacaville, Calif. Tool retainer. 1,732,836; Oct. 22.
- Coffman, Samuel M., assignor to R. H. Osborne and C. W. Sydenstricker, Kansas City, Mo. Vending machine. 1,711,773; May 7.
- Coffman, William B., Norwood, Ohio. Coal conveying and discharging device. 1,728,229; Sept. 17.
- Coffman, William P., Dunkirk, and C. M. Anglemeyer, assignors to The Edgemont Machine Company, Dayton, Ohio. Clutch. 1,697,904; Jan. 8.
- Cogan, Henry M., Charleston, W. Va. Air and fuel mixing device. 1,722,367; July 30.
- Coggins, John W., Sophia, N. C. Green-pea sheller. 1,704,427; Mar. 5.
- Coghlan, Thomas, and W. Loiselle, Kankakee, Ill. Mattress-filter device. 1,722,734; July 30.
- Coghlan, Thomas G., Elizabeth, N. J. Ignition burner. 1,733,647; Oct. 29.
- Coghlin, Bernard W. P., Montreal, Quebec, Canada. Automobile bumper. 1,738,286; Dec. 3.
- Cogneau, Leopold, Montigny sur Sambre, assignor to Ateliers de Construction Electriques de Charleroi, Brussels, Belgium. Electrical machine rotor. 1,723,409; Aug. 6.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Fleshing and grading machine. 1,700,978; Feb. 5.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Evening and distributing machine. 1,703,136; Feb. 26.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Marking device for grading machines. 1,713,598; May 21.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Automatic top-lift grading and distributing machine. 1,718,948; July 2.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Grading machine. 1,726,610; Sept. 3.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Grading machine. 1,738,818; Dec. 10.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Grading machine. 1,741,149; Dec. 31.
- Cohan, Newton, Portland, Oreg. Adjustable mail box. 1,707,049; Mar. 26.
- Cohen, Abe. (See Pope, G. L., and Cohen.)
- Cohen, Abraham W., New York, N. Y. Ring. Des. 77,394; Jan. 8.
- Cohen, Charles, administrator. (See Merk, Henry.)
- Cohen, Frank, Brooklyn, N. Y. Test T. 1,720,819; July 16.
- Cohen, Harry, Washington, D. C. Pencil sharpener. 1,735,638; Nov. 12.
- Cohen, Henry B. (See Shaler, Saul, assignor.)
- Cohen, Hyman E., Brooklyn, N. Y., assignor to Pantex Pressing Machine, Inc., Pawtucket, R. I. Swivel joint. 1,735,637; Nov. 12.
- Cohen, Ira, Highland Park, Mich. Ice-cream-manufacturing and soft-fountain apparatus. 1,704,590; Mar. 5.
- Cohen, Isidore, New York, N. Y. Reeling machine. 1,738,170; Dec. 3.
- Cohen, Issakhar, assignor to S. Bonan, New York, N. Y. Necktie. 1,729,597; Sept. 24.
- Cohen, Jacob A., Brooklyn, N. Y. Sash-cord anchor. 1,713,422; May 14.
- Cohen, Jacob M., San Diego, Calif. Automatic shears. 1,710,347; Apr. 23.
- Cohen, Jacob, Middle Village, N. Y. Hand bag. Des. 79,418; Sept. 17.
- Cohen, Jacob, Middle Village, N. Y. Button ornament. Des. 79,419; Sept. 17.
- Cohen, Joel, Maplewood, N. J. Radiator cover. 1,706,212; Mar. 19.
- Cohen, Joseph, Taunton, Mass. Container for vacuum flasks or the like. 1,716,622; June 11.
- Cohen, Joseph H., Bridgeport, Conn. Wire reel. 1,708,302; Apr. 9.
- Cohen, Joseph H., Bridgeport, Conn. Cigar lighter. 1,710,348; Apr. 23.
- Cohen, Joseph H., Bridgeport, Conn. Electrical device. 1,710,531; Apr. 23.
- Cohen, M. Seaton. (See Blankenship, Wayne J., assignor.)
- Cohen, Mendel, Baltimore, Md. Display tray for jars. 1,706,955; Mar. 26.
- Cohen, Morris, Brooklyn, assignor to The Gift House, Inc., New York, N. Y. Combined ash receiver and cigarette and match holder. Des. 80,108; Dec. 17.
- Cohen, Nathan, Brooklyn, N. Y. Dental tray attachment. 1,704,122; Mar. 5.
- Cohen, Nathan B. (See Loiselle, J. H., and Cohen.)
- Cohen, Philip, and M. Rossein, Brooklyn, assignors to S. C. Yokelson, New York, N. Y. Ring. 1,718,113; June 18.
- Cohen, Raphael R., Paris, France. Luminous advertising apparatus. 1,727,229; Sept. 3.
- Cohen, Rubin, assignor to Haymon Krupp & Company, El Paso, Tex. Shirt pocket. 1,708,786; Apr. 9.
- Cohen, Samuel, Brooklyn, N. Y. Method of and apparatus for amplification at different frequencies. 1,709,062; Apr. 16.
- Cohen, Samuel, Brooklyn, N. Y. Amplification system. 1,740,283; Dec. 17.
- Cohen, Sidney, assignor to Defender Lock Co., New York, N. Y. Combination padlock. 1,728,902; Sept. 17.
- Cohen, Sidney, assignor to Defender Lock Company, Inc., New York, N. Y. Combination door lock. 1,728,903; Sept. 17.
- Cohen, Solomon, Chicago, Ill. Woven furniture. 1,724,181; Aug. 13.
- Cohen, Theodore. (See Burns, E. E., and Cohen.)
- Cohn, Albert, assignor to Chicago Metallic Mfg. Co., Chicago, Ill. Baking pan. 1,707,655; Apr. 2.
- Cohn Herman, New York, N. Y. Vending card for bead strings. Des. 79,131; Aug. 6.
- Cohn, Irwin, New York, N. Y. Blow toy. 1,710,346; Apr. 23.
- Cohn, Jack, New York, N. Y. Arch and ankle supporter. 1,718,931; June 25.
- Cohn, Mary, New York, N. Y. Toy circus wagon. Des. 77,463; Jan. 15.
- Cohn, Milton, New York, N. Y. Display cabinet. Des. 78,089; Mar. 26.
- Cohner, Edward E. (See Cram, Charles W., assignor.)



- Cohoe Processes, Inc. (See Cohoe, Wallace P., assignor.)  
 Cohoe, Wallace P., Riverdale-on-Hudson, assignor to Cohoe Processes, Inc., New York, N. Y. Machine for and method of dyeing cloth and otherwise treating textiles. 1,737,149; Nov. 26.
- Coboon, Luther E., La Grange, Ill. Flushing apparatus. 1,734,472; Nov. 5.
- Colic, Frank, Alexandria, Va. Machine for removing snow. 1,702,029; Feb. 12.
- Coil, William D., Muncie, and W. J. De Reamer, Crown Point, Ind. Support for endless conveyers. 1,708,357; Apr. 9.
- Coiro, Joseph, Chester, Pa. Permutation padlock. 1,712,476; May 7.
- Coker, Ernest G., Chingford, England. Spring balance. 1,724,993; Aug. 20.
- Cola, William, Sacramento, Calif. Toy bank. 1,717,144; June 11.
- Colandruoni, Alvin, Somerville, N. J. Vehicle control for cripples. 1,711,447; Apr. 30.
- Colbert, Clarence L., Elizabeth, N. J., assignor to Fiske & Company, Inc., Boston, Mass. Drying method and apparatus. 1,697,556; Jan. 1.
- Colbert, Charles C., and G. E. Preston, assignors to American Coating Mills, Elkhart, Ind. Coated-board finishing and cutting apparatus. 1,722,559; July 30.
- Colbjornsen, Thorvald C., Antonito, Colo. Lifter for salt grainers. 1,712,651; May 14.
- Colborne Manufacturing Company. (See Smith, Dennis W., assignor.)
- Colburn, Earl E., assignor to Super-Ball Antenna Co., Green Bay, Wis. Loud speaker. 1,704,460; Mar. 5.
- Colburn, Earl E., assignor to Aerial Insulator Co., Inc., Green Bay, Wis. Insulator for radioantennae. 1,705,174; Mar. 12.
- Colby, Clyde M., and W. N. Potts, Brush, Colo. Switch-locking mechanism. 1,729,927; Oct. 1.
- Colby, Hayward T. (See Stevenson, R. J., and Colby.)
- Colby, Lura B., administratrix. (See Stevenson, R. J., and Colby.)
- Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Dental furnace. 1,697,164; Jan. 1.
- Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,705,717; Mar. 19.
- Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,709,658; Apr. 16.
- Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Furnace-opening seal. 1,725,059; Aug. 20.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal. 1,728,786; Sept. 17.
- Colditz, Heinrich M., Dresden, Germany. Shoemaking apparatus. 1,707,510; Apr. 2.
- Coldwell, Frank T., Alplaus, N. Y., assignor to General Electric Company. Protective arrangement. 1,699,096; Jan. 15.
- Coldwell, Frank T., Alplaus, N. Y., assignor to General Electric Company. Testing apparatus. 1,718,529; June 25.
- Cole, Carman S., Pendleton, Oreg. Spark-plug tester. 1,700,026; Jan. 22.
- Cole, Charles E., Cripple Creek, Colo. Paper weight. Des. 78,806; June 25.
- Cole, Charles P., sr., Paterson, N. J. Apparatus and method for treating fabrics with liquid. 1,702,535; Feb. 19.
- Cole, Claude L. (See Carlson, E. W., and Cole.)
- Cole, Cleveland W., assignor to National Vending Machine Company, Inc., Denver, Colo. Coin-actuated insurance-policy-vending machine. 1,726,541; Sept. 3.
- Cole, David, El Paso, Tex. Grinding mill. 1,711,405; Apr. 30.
- Cole, Dwight S., assignor to H. A. Rosberry, Grand Rapids, Mich. Firing tool constituting a combing poker and clinker remover. 1,722,953; July 30.
- Cole, Elmer K., Winterset, Iowa. Cable anchor. 1,702,536; Feb. 19.
- Cole, Elmer K., Winterset, Iowa. Earth anchor. 1,724,341; Aug. 13.
- Cole, Elmer K., Winterset, Iowa. Anchor for use in veneering concrete structures. 1,734,364; Nov. 5.
- Cole, Eugene M., Charlotte, N. C. Draft device. 1,709,462; Apr. 16.
- Cole, Floyd F., Mansfield, Ohio, assignor, by mesne assignments, to Elite Manufacturing Company. Vehicle jack. 1,723,134; Aug. 6.
- Cole Folding Box Company, The. (See Sullivan, Gerald D., assignor.)
- Cole, George W., et al., trustees. (See Cole, George W., assignor.)
- Cole, George W., Mishawaka, assignor to G. W. Cole, V. G. Jones, and W. A. Sweeney, trustees, South Bend, Ind. Shock-absorbing coupling for shafts. 1,708,923; Apr. 9.
- Cole, George W., and L. V. Davis, Mishawaka, Ind., assignors to V. G. Jones, trustee. Power transmission. 1,708,924; Apr. 9.
- Cole, Harry A., et al. (See Haines, Merl, assignor.)
- Cole, Harry C., Philadelphia, Pa. Spray control for printing presses. 1,724,748; Aug. 13.
- Cole, Harry W., New Rochelle, and M. W. McLaren, Jackson Heights, assignors, by mesne assignments, to The Liquid Carbonic Corporation, New York, N. Y. Apparatus for removing paint from cylinders and containers. 1,716,165; June 4.
- Cole, Harry W., New Rochelle, N. Y., and M. W. McLaren, Detroit, Mich., assignors, by mesne assignments, to The Liquid Carbonic Corporation, New York, N. Y. Removing paint from cylinders and containers. 1,736,846; Nov. 26.
- Cole, Henry, Company. (See Mayer, Leo, assignor.)
- Cole, Henry B., Bennington, Vt. Holder for tools used for turning and planing iron and other metals. 1,720,820; July 16.
- Cole, Herbert, Stamford Hill, assignor to Prestop Limited, London, England. Opening milk bottles and the like. 1,699,607; Jan. 22.
- Cole, Howard S., jr. (See Cox, E. R., and Cole.)
- Cole, John A., Chicago, Ill. Combined valve indicator and identifier. 1,705,357; Mar. 12.
- Cole, John A., Chicago, Ill. Automatic water-supply control. 1,721,944; July 23.
- Cole, John W., St. Francis, Kans. Combined weed cutter and mulch roller. 1,702,196; Feb. 12.
- Cole, Lonnie Co., assignor of one-half to C. B. Harden, Allendale, S. C. Doorstop latch. 1,725,701; Aug. 20.
- Cole, Lyndon C., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Drum-type milling machine. 1,700,309; Jan. 29.
- Cole, Perino B., Cambridge, Nebr. Barrel truck. 1,738,096; Dec. 3.
- Cole, Perry C., Auburn, Nebr. Elevating grader. 1,698,152; Jan. 8.
- Cole, Samuel W., Tulsa, Okla. Recovering oils from emulsions. 1,700,627; Jan. 29.
- Cole, T. Bert. (See Herron, George A., assignor.)
- Cole, William H., Paris, France. Derusting ferrous metals. 1,715,695; June 4.
- Cole, William H., Paris, France. Proofing metal, especially iron and steel, against rust. 1,719,463; July 2.
- Cole, William H., Paris, France. Proofing of iron and steel against rust. 1,719,464; July 2.
- Cole, William H., Paris, France. Material for use in protecting iron and steel. 1,729,065; Sept. 24.
- Cole, William H., and Company. (See Taylor, C. M., and Reed, assignors.)
- Cole, William T., St. Louis, Mo. Vending machine. 1,708,441; Apr. 9.
- Colecliff, Joseph and R., Liverpool, England. Machine for cracking and shelling nuts. 1,703,989; Mar. 5.
- Colecliff, Roland. (See Colecliff, Joseph and R.)
- Coleman, Ada and I. A., Baltimore, Md. Adjustable book cover. 1,698,391; Jan. 8.
- Coleman Automatic Transmission Company. (See Coleman, George B., assignor.)
- Coleman, Charles F., assignor to F. J. Stokes Machine Company, Philadelphia, Pa. Impregnating with a compound. 1,711,774; May 7.
- Coleman, Charles S., Los Angeles, Calif. Fishhook. 1,734,612; Nov. 5.
- Coleman, Clarence E., and H. F. Whittaker, Buffalo, N. Y., and T. E. Sharpe, Old Hickory, Tenn., assignors to du Pont Cellophane Company, Inc. Method of and apparatus for drying cellulose tubing. 1,708,937; Apr. 16.
- Coleman, George B., Dayton, Ohio, assignor to Coleman Automatic Transmission Company, San Francisco, Calif. Transmission. 1,703,061; Feb. 19.
- Coleman, George B., Dayton, Ohio, assignor to Coleman Automatic Transmission Company, San Francisco, Calif. Clutch. 1,722,839; July 30.
- Coleman, George B., Philadelphia, Pa., assignor to Coleman Automatic Transmission Company. Transmission. 1,707,050; Mar. 26.
- Coleman, George B., assignor of one-fourth to said Coleman, one-fourth to P. J. Boyens, and one-fourth to C. J. McCarthy, San Francisco, Calif., and one-fourth to L. E. Carter, Rectifier. 1,707,936; Apr. 2.
- Coleman, George B., Detroit, Mich., assignor to Coleman Automatic Transmission Company. Transmission. 1,721,432; July 16.
- Coleman, Henry H., and A. Ziska, jr., assignors to Columbian Art Works, Milwaukee, Wis. Desk-calendar stand. 1,699,878; Jan. 22.
- Coleman, Herbert S., Victoria, London, England. Flash-sign advertising switch apparatus. 1,717,370; June 18.
- Coleman, Isadore A. (See Coleman, Ada and I. A.)
- Coleman, John L., and F. L. E. Ezzell, Oklahoma City, Okla.; said Coleman assignor to J. H. Harrison. Minnow bucket. 1,731,921; Oct. 15.
- Coleman, John P., Edgewood Borough, assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,713,169; May 14.
- Coleman, John P., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 1,741,012; Dec. 24.
- Coleman, Joseph E., New York, N. Y. Radiator air valve. 1,712,257; May 7.
- Coleman Lamp and Stove Co. (See Coleman, Sheldon, assignor.)
- Coleman Lamp and Stove Co. (See Davidson, Charles E., assignor.)
- Coleman Lamp and Stove Company, The. (See McCutchen, John E., assignor.)



- Coleman, Roy E., assignor to Economy Fuse & Manufacturing Co., Chicago, Ill. Heat treating plastic and other materials. 1,727,964; Sept. 10.
- Coleman, Sheldon, assignor to Coleman Lamp and Stove Co., Wichita, Kans. Stove. 1,716,210; June 4.
- Coleman, Stephen R., Los Angeles, Calif. Continuous calendar. 1,740,497; Dec. 24.
- Coleman, Stewart P., Houston, Tex., assignor to Standard Oil Development Company. Extraction and purification of naphthenic acid. 1,720,821; July 16.
- Coleman, Thomas A., Portland, Oreg. Sawmill. 1,704,698; Mar. 12.
- Coleman, Thomas L., Los Angeles, Calif. Elevator. 1,736,187; Nov. 19.
- Coleman, William R., Birmingham, Ala. Aerial bucket. 1,704,556; Mar. 5.
- Coleman, Willis P., Chicago, Ill. Fishhook. 1,717,190; June 11.
- Colen, Arthur W., assignor to Artco Advertising, Inc., Philadelphia, Pa. Substitute for metal. 1,713,865; May 21.
- Coles, Henry L. (See Donaldson, J. G., and Coles.)
- Coles, Henry L., and J. G. Donaldson, assignors to Guardian Metals Company, Hamilton, Ohio. Metallic alloy. 1,698,212; Jan. 8.
- Coles, Henry L., and J. G. Donaldson, assignors to Guardian Metals Company, Hamilton, Ohio. Metallic alloy and forming the same. 1,702,765; Feb. 19.
- Coles, Henry L., and J. G. Donaldson, assignors to Guardian Metals Company, Hamilton, Ohio. Composite metal plate. 1,702,766; Feb. 19.
- Coles, Henry L., and J. G. Donaldson, assignors to Guardian Metals Company, Hamilton, Ohio. Apparatus for melting and casting. 1,703,658; Feb. 26.
- Coles, Walter H., assignor to The Skinner Irrigation Company, Troy, Ohio. Sprinkling device. 1,722,455; July 30.
- Coles, Walter H., assignor to The Skinner Irrigation Company, Troy, Ohio. Lawn sprinkler. 1,741,557; Dec. 31.
- Coles, Wilfred G., assignor to Madison-Kipp Corporation, Madison, Wis. Blood-transfusion machine. 1,703,389; Feb. 26.
- Coles, Wilfred G., assignor to Madison-Kipp Corporation, Madison, Wis. Terminal check valve. 1,720,390; July 9.
- Coley, Henry E., London, England. Manufacture of zinc. 1,721,373; July 16.
- Colfesh, Robert W., et al. (See Ellis, Ralph N., assignor.)
- Colgan, Frank J., Columbus, Ohio. Apparatus for removing dust from stone crushing and segregating apparatus. 1,699,180; Jan. 15.
- Colgate-Palmolive-Peet Company. (See de Vaulchier, Simon, assignor.)
- Colgren, A. F. (See Bonner, William T., assignor.)
- Colin, René, Strasbourg, France. Spark plug for internal-combustion engines. 1,719,389; July 2.
- Colladay, Edward F. (See Clement, Edward E., assignor.)
- Collar, Lloyd D., assignor to Collar Valve Corporation, Berkeley, Calif. Valve and valve-stem construction for self-grinding valves. 1,736,253; Nov. 19.
- Collar Valve Corporation. (See Collar, Lloyd D., assignor.)
- Collard, Harry T., Detroit, Mich. Closed auto body ventilator. 1,704,557; Mar. 5.
- Colledanchise, Salvatore, Boston, Mass. Flexible toy. 1,714,158; May 21.
- Collen, Robert H., East Ham., assignor of one-half to John Broadwood & Sons Limited, London, England. Piano-forte. 1,699,561; Jan. 22.
- Collen, Robert H., East Ham., assignor of one-half to John Broadwood & Sons Limited, London, England. Piano-forte. 1,731,158; Oct. 8.
- Collender, Charles, Brooklyn, N. Y. Protecting canopy. 1,732,878; Oct. 22.
- Collette, William E., Marlboro, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,740,498; Dec. 24.
- Collie, John, Oregon City, Oreg. Selvage protector. 1,707,388; Apr. 2.
- Collier, Bryan C. (See Farnham, R., and Collier.)
- Collier, Bryan C., W. Leriche, and E. A. Evans, assignors to Cement Gun Contracting Company, Allentown, Pa. Pile and wall construction. 1,714,949; May 28.
- Collier, David R., and W. Hoglund, assignors to Collier-Keyworth Company, Gardner, Mass. Child's carriage. 1,721,178; July 16.
- Collier, Freeman E., assignor to Foley Saw Tool Company, Incorporated, Minneapolis, Minn. Saw carrier for saw-filing machines. 1,728,393; Sept. 17.
- Collier, John J., Irwin, Pa. Self-dumping mine cage. 1,716,030; June 4.
- Collier-Keyworth Company. (See Collier, D. R., and Hoglund, assignors.)
- Collier-Keyworth Co., et al. (See Specter, Elias, assignor.)
- Collier, William D., Fort Myers, Fla. Receptacle closure. 1,705,175; Mar. 12.
- Collier, William D., Fort Myers, Fla. Receptacle closure. 1,712,551; May 14.
- Colliflower, Chester. (See Holden, J. C., and Colliflower.)
- Collingbourne, Albert B., assignor to Collingbourne Mills, Inc., Elgin, Ill. Device for winding yarn and the like. 1,698,153; Jan. 8.
- Collingbourne, Albert B., assignor to Collingbourne Mills, Inc., Elgin, Ill. Artificial-silk floss. 1,699,879; Jan. 22.
- Collingbourne, Albert B., assignor to Collingbourne Mills, Inc., Elgin, Ill. Device for winding yarn and the like. 1,715,448; June 4.
- Collingbourne, Albert B., assignor to Collingbourne Mills, Inc., Elgin, Ill. Infant's garment. 1,723,644; Aug. 6.
- Collingbourne Mills, Inc. (See Collingbourne, Albert B., assignor.)
- Collings, George E., trustee. (See Chisholm, D. C., and Hannum, assignors.)
- Collings, Orlando A., Kansas City, Mo., assignor, by mesne assignments, to Silica Products Co., Los Angeles, Calif. Waterproof plastic. Re17,207; Feb. 5.
- Collings, William A. (See Cross, R., and Collings.)
- Collings, William R., and J. J. Shafer, assignors to The Dow Chemical Company, Midland, Mich. Calcium-magnesium-chloride product and making same. 1,738,492; Dec. 3.
- Collins, Anthony H., Bronxville, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Refrigerating apparatus. 1,698,122; Jan. 8.
- Collins, Arthur J., Detroit, Mich. Machine for treating belts. 1,734,365; Nov. 5.
- Collins, Aubrey L., London, England. Stator stud for hinged lids of gramophone and other cabinets. 1,170,570; Apr. 23.
- Collins, Carroll B., and J. A. B. Lovett, Pittsburgh, Pa., assignors to The Koppers Company. Pusher ram for coke ovens. 1,730,604; Oct. 8.
- Collins, Charles H., deceased, Amsterdam; by M. Collins, executrix, Cranestown, N. Y. Machine for winding tube-frame spools. 1,729,710; Oct. 1.
- Collins, Claude R., Astoria, N. Y. Fountain toothbrush. 1,701,030; Feb. 5.
- Collins, Cornelius, Los Angeles, Calif. Block for steel studing and the like. 1,739,824; Dec. 17.
- Collins, Daniel, New York, N. Y. Vehicle wheel. 1,726,385; Aug. 27.
- Collins, Donley S., Cleveland Heights, Ohio, assignor, by mesne assignments, to Bailey Meter Company. Differential pressure device. 1,706,145; Mar. 19.
- Collins, Everett P., Chillicothe, Ohio. Lubricator. 1,737,570; Dec. 3.
- Collins, Frank, assignor to Mutual-Sunset Lamp Mfg. Co., Inc., New York, N. Y. Metal lacing. Des. 78,009; Mar. 19.
- Collins, Frank, assignor to Mutual Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Lamp-pedestal arm. Des. 78,339; Apr. 23.
- Collins, Frank, assignor to Mutual Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Lamp base. Des. 78,340; Apr. 23.
- Collins, Frank, assignor to Mutual Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Lamp-pedestal arm. Des. 78,341; Apr. 23.
- Collins, Frank, assignor to Mutual Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Lamp-pedestal arm. Des. 78,342; Apr. 23.
- Collins, Frank, assignor to Mutual Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Lamp-pedestal arm. Des. 78,343; Apr. 23.
- Collins, Frank, assignor to Mutual Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Lamp base. Des. 78,344; Apr. 23.
- Collins, Frank, assignor to Mutual Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Lamp base. Des. 80,020; Dec. 3.
- Collins, Frank, assignor to Mutual-Sunset-Lamp Mfg. Co., Inc., New York, N. Y. Metal lacing for lamp shades. 1,723,135; Aug. 6.
- Collins, Frank R., et al. (See Fuller, George P., assignor.)
- Collins, George D., Houston, Tex. Pump. 1,735,893; Nov. 19.
- Collins, George E., St. Louis County, Mo. Towel cabinet. 1,724,128; Aug. 13.
- Collins, Grellet. (See White, Joseph A., assignor.)
- Collins, Harold B., Philadelphia, Pa. Log-metering apparatus. 1,733,448; Oct. 20.
- Collins, Harold P., Springfield, assignor, by mesne assignments, to Lincoln Oil Burner Company, Peoria, Ill. 1,711,671; May 7.
- Collins, Harry R., Allentown, Pa., assignor, by mesne assignments, to Fuller Lehigh Company. Pulverized-fuel furnace. 1,736,847; Nov. 26.
- Collins, Henry A., Washington, D. C. Combination rope hanger and releaser. 1,728,106; Sept. 10.
- Collins, Hubert D., assignor to Gypsy Oil Company, Tulsa, Okla. Belt clamp. 1,710,297; Apr. 23.
- Collins, James B., Tulsa, Okla. Jump-seat canopy. 1,710,013; Apr. 23.
- Collins, Joe. (See Ayers, Ray C., assignor.)
- Collins, John L., assignor to The Warner Corporation, Syracuse, N. Y. Spring bushing. 1,738,037; Dec. 3.
- Collins, John N., Rosedale, L. I., assignor to Oriole Shirt Mfg. Corp., New York, N. Y. Collar. 1,721,481; July 16.
- Collins, John T., deceased, Sandwich, Mass., T. M. Winsor, administrator. Composition of matter for molding and making the same. 1,716,623; June 11.
- Collins, John T., Charleston, W. Va. Ophthalmic-lens-thickness caliper. 1,719,652; July 2.
- Collins, Justus. (See Carney, Samuel E., assignor.)
- Collins, Mary, executrix. (See Collins, Charles H.)



- Collins, Nathaniel T., assignor of one-half to W. E. Darby, Sacramento, Calif. Combination door hinge and check. 1,706,656; Mar. 26.
- Collins, Owen F. (See Heatherington, C. J., and Collins.)
- Collins, Palmer, Cedar Grove, N. J., and A. A. Lane, New Rochelle, N. Y. Balance valve. 1,730,408; Oct. 8.
- Collins, Patrick J., assignor to E. B. Scott, trustee, Scranton, Pa. Dynamo-electric machine. 1,720,208; July 9.
- Collins, Patrick W. (See Westbury, W., and Collins.)
- Collins, Richard, Three Rivers, Ontario, Canada. Paper-making machine. 1,701,226; Feb. 5.
- Collins, Richard J., Pawtucket, R. I. Low-pressure boiler. 1,729,567; Sept. 24.
- Collins, T. A., et al. (See Freese, Claude H., assignor.)
- Collins, Thomas, jr., assignor to American Separator Company, Bainbridge, N. Y. Cream separator. 1,731,999; Oct. 15.
- Collins, Thomas D., Washington, D. C. Fish box. 1,719,591; July 2.
- Collins, Timothy, Los Angeles, Calif. Plaster-board stud and key lock. 1,697,521; Jan. 1.
- Collins, William A., Brooklyn, N. Y., and C. Jardine, East Orange, N. J., assignors to The Safe-T-Stat Company, New York, N. Y. Temperature-indicating means. 1,732,152; Oct. 15.
- Collins, William D., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Valve. 1,737,706; Dec. 3.
- Collins, William D., and E. Widerborg, Evansville, Ind., assignors, by mesne assignments, to Servel, Inc., New York, N. Y. Sliding motor base. 1,731,294; Oct. 15.
- Collins, William W., North Seekonk, Mass. Twisting machine. 1,728,663; Sept. 17.
- Collis Company, The. (See Bouda, B., and Skeleton, assignor.)
- Collis, Meyer, Philadelphia, Pa. Die for imprinting plastic masses. 1,736,579; Nov. 19.
- Collis, Raymond E., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,733,580; Oct. 29.
- Collison, Edward E. (See Hoke, F., Rossebo, and Collison.)
- Colloidal Equipment Corporation. (See Cunniff, B., and Lee, assignors.)
- Colloidal Lime Plaster Corporation. (See Loomis, C. C., and MacDonald, assignors.)
- Colman, George A., Seattle, Wash. Retort cradle car. 1,713,689; May 21.
- Colman, George A., Seattle, Wash. Perforating disk. 1,716,765; June 11.
- Colman, Henry N. (See Redman, F. C., and Colman.)
- Colman, Howard D., Rockford, Ill. Automatically-controlled clutch. 1,734,998; Nov. 12.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Machine for generating gear wheels. 1,712,254; May 7.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Grinding wheel. 1,712,255; May 7.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Gear-cutting machine. 1,712,256; May 7.
- Colman, Howard D., Rockford, assignor to Barber-Colman Company, Rockford, Ill. Gasoline gauge. 1,723,681; Aug. 6.
- Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Gear-cutting machine. 1,737,217; Nov. 26.
- Colman, Howard D., and B. A. Peterson, Rockford, assignors, by mesne assignments, to E. S. Nethercut, Evanston, Ill. Winder. 1,727,534; Sept. 10.
- Colman, Howard D., and B. A. Peterson, Rockford, assignors, by mesne assignments, to E. S. Nethercut, Evanston, Ill. Winder. 1,727,749; Sept. 10.
- Colman, Howard D., Rockford, assignor to E. S. Nethercut, Evanston, Ill. Warper and method of warping yarn. 1,741,757; Dec. 31.
- Colmerauer, Andrew J. (See Grau, H. E., and Colmerauer.)
- Coloder Company, The. (See Newdick, Norton A., assignor.)
- Colognori, Aldo. (See Werkstell, L., and Colognori.)
- Colognori, Aldo, assignor of one-half to L. Werkstell, Brooklyn, N. Y. Wrench. 1,732,000; Oct. 15.
- Colona Manufacturing Company. (See Shrum, Peter J., assignor.)
- Colona Manufacturing Company, The. (See Westerman, William H., assignor.)
- Colonial Can Co. (See Campbell, Charles H.)
- Colonial Lamp & Fixture Works, Inc. (See Nelson, Theodore J., assignor.)
- Colonial Lamp & Fixture Works, Inc. (See Nelson, T. J. and J., assignors.)
- Colonial Tool Company. (See Lundell, Otto, assignor.)
- Colonial Trust Company, trustee. (See Witherow, William P., assignor.)
- Colonial Trust Company, trustee. (See Witherow, W. P., and Coyle, assignors.)
- Colony, Myron W., Texas City, Tex., assignor to Petroleum Conversion Corporation, New York, N. Y. Converting hydrocarbon compounds. 1,715,341; May 28.
- Colorado Fuel and Iron Company, The. (See Campbell, Calvin, assignor.)
- Colorado National Bank, The, executor. (See Chapin, Chauncey C.)
- Colosoff, Anatoly, San Francisco, Calif. Testing device. 1,707,051; Mar. 26.
- Colson Company, The. (See Roe, Mayo E., assignor.)
- Colson, Erick G. (See Heller, H. H., and Colson.)
- Colt, Charles R., Brooklyn, assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Power transmitter. 1,723,468; Aug. 6.
- Colt, Charles R., Brooklyn, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Overseaming sewing machine. 1,740,808; Dec. 24.
- Colt, Samuel S., Orange, N. J. Clamping-form concrete apparatus. 1,726,542; Sept. 3.
- Colt, Samuel S., Orange, N. J. Pressure-exerting tool. 1,732,259; Oct. 22.
- Coltman, Bertram W., Chicago, Ill. Soap flakes. 1,718,778; June 25.
- Colton, Arthur, Company. (See Kath, A. W., and Scott, assignors.)
- Colt's Patent Fire Arms Manufacturing Co. (See Conner, Benjamin F., assignor.)
- Colt's Patent Fire Arms Manufacturing Company. (See Conner, B. F., and Schmalz, assignors.)
- Colt's Patent Fire Arms Manufacturing Co. (See Moore, Frederick T., assignor.)
- Colt's Patent Fire Arms Manufacturing Company. (See Moore, F. T., and Pfeiffer, assignors.)
- Colt's Patent Fire Arms Manufacturing Company. (See Pfeiffer, Christian, assignor.)
- Colt's Patent Fire Arms Manufacturing Co. (See Pfeiffer, C., and Moore, assignors.)
- Colt's Patent Fire Arms Manufacturing Company. (See Tansley, George H., assignor.)
- Colt's Patent Fire Arms Manufacturing Company. (See Webb, George, assignor.)
- Colt's Patent Fire Arms Manufacturing Company. (See Webb, G., and Jenks, assignors.)
- Columbia Axle Company, The. (See Mooers, Louis P., assignor.)
- Columbia Burner Company, The. (See Bennett, Horatio S., assignor.)
- Columbia Fastener Company. (See Kositchek, Leo. S., assignor.)
- Columbia Machine Works and Malleable Iron Company. (See Smith, Leo O., assignor.)
- Columbia Machine Works and Malleable Iron Co. (See Tisdall, Trevor H., assignor.)
- Columbia Phonograph Company. (See Capps, F. L., and Prescott, assignors.)
- Columbia Phonograph Company. (See Forse, William, assignor.)
- Columbia Phonograph Company. (See Hinckley, Frank C., assignor.)
- Columbia Phonograph Company. (See Mitchell, Frank A., assignor.)
- Columbia Ribbon & Carbon Manufacturing Company. (See Dixon, Harold W. A., assignor.)
- Columbia Steel Company, The. (See Neugle, H. M., and Townsend, assignors.)
- Columbia Steel Equipment Company. (See Bergmann, Philip, assignor.)
- Columbian Art Works. (See Coleman, H. H., and Ziska, assignors.)
- Columbian Carbon Company. (See Glaxner, Herman J., assignor.)
- Columbian Rope Company. (See Corbett, Herbert A., assignor.)
- Columbian Rope Company. (See Dodge, Milo C., assignor.)
- Columbian Rope Company. (See Reber, James B., assignor.)
- Columbus Creosoting Company. (See Warmoth, George W., assignor.)
- Columbus Dental Manufacturing Company, The. (See Crowley, Daniel J., assignor.)
- Columbus Dental Manufacturing Company, The. (See Evans, David E., assignor.)
- Columbus Dental Manufacturing Company, The. (See Moyer, James H., assignor.)
- Columbus Dental Mfg. Co., The. (See Pickering, Lafayette, assignor.)
- Columbus Dental Manufacturing Company, The. (See Robinson, Robert M., assignor.)
- Columbus Machine Company, The. (See Jones, Lloyd, assignor.)
- Columbus Machine Company, The. (See Porter, Harper R., assignor.)
- Columbus Machine Company, The. (See Sparks, Stanley W., assignor.)
- Colvin, Benjamin F., Fremont, Ohio, assignor to The Detroit Anchor Company, Detroit, Mich. Anchor. 1,726,526; Sept. 3.
- Colvin, Charles H., and M. M. Titterington, deceased; G. A. Titterington, executor, assignors to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Drift and speed meter. 1,719,287; July 2.
- Colwell, William E., Zion, Ill. Bubble blower. 1,710,609; Apr. 23.
- Colyn, John, Chehalis, Wash. Bulb-planting device. 1,741,614; Dec. 31.
- Combemale, Marcel, Clichy, France. Manufacturing metal furniture and product resulting therefrom. 1,722,177; July 23.
- Comber, John, assignor to National Equipment Company, Akron, Ohio. Tire-repair vulcanizing apparatus. 1,708,358; Apr. 9.



- Combes, Abbott L., Washington, D. C., assignor of one-half to H. M. Keyser, East Falls Church, Va. Ripping unit for metal cans. 1,723,604; Aug. 6.
- Combes, Maurice B. (See Continouza, V. and Combes.)
- Combest, Ross, Beaumont, Tex. Rotary fruit and vegetable stemming, peeling, and trimming head. 1,720,468; July 9.
- Combination Selector Company. (See Rainey, Paul M., assignor.)
- Combined Metals Reduction Company. (See Green, William D., assignor.)
- Combs, Edward L., Camden, N. J., assignor to The Pooley Company, Philadelphia, Pa. Radiocabinet. Des. 79,878; Nov. 12.
- Combs, Frajne L., Wapakoneta, Ohio. Electric water heater. 1,715,899; June 4.
- Combs, George W., deceased, by Great Western Manufacturing Company, assignee, Leavenworth, Kans. Supporting and controlling gyrotory structures. Re17,195; Jan. 15.
- Combs, Presley S., jr., assignor to Monorail Engineering Corporation, Chicago, Ill. Car hanger. 1,740,415; Dec. 17.
- Combs, Presley S., jr., assignor to Monorail Engineering Corporation, Chicago, Ill. Monorail car truck. 1,740,416; Dec. 17.
- Combs, Presley S., jr., assignor to Monorail Engineering Corporation, Chicago, Ill. Monorail track construction. 1,740,417; Dec. 17.
- Combs, William F., Denver, Colo., and I. C. Lightfoot, Merriam, Kans. Dry-placer machine. 1,698,779; Jan. 15.
- Combustion Control Company. (See Potter, F. D., and Hiss, assignors.)
- Combustion Engineering Corporation. (See Adamson, Arthur V., assignor.)
- Combustion Engineering Corporation. (See Bell, John E., assignor.)
- Combustion Engineering Corporation. (See Bell, J. E., and Jackson, assignors.)
- Combustion Engineering Corporation. (See Clendon, George W., assignor.)
- Combustion Engineering Corporation. (See Jackson, George P., assignor.)
- Combustion Engineering Corporation. (See Kreisinger, Henry, assignor.)
- Combustion Engineering Corporation. (See Kreisinger, H., and Anderson, assignors.)
- Combustion Engineering Corporation. (See Lundgren, Edwin, assignor.)
- Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
- Combustion Engineering Corporation. (See Van Brunt, J., and Jackson, assignors.)
- Combustion Equipment Company. (See Atwater, Harry A., assignor.)
- Combustion Fuel Oil Burner Company. (See Rogers, Homer S., assignor.)
- Combustion Utilities Corporation. (See Caplan, Solomon, assignor.)
- Combustion Utilities Corporation. (See Greenfield, Benjamin, assignor.)
- Combustion Utilities Corporation. (See Klees, Albert L., assignor.)
- Combustion Utilities Corporation. (See Klees, A. L., and Soule, assignors.)
- Combustion Utilities Corporation. (See Wright, Carl J., assignor.)
- Comeau, Melburn A., Haverhill, Mass. Wooden heel and making same. 1,719,424; July 2.
- Comer, Joseph H., et al. (See Abel, Joseph C., assignor.)
- Comerford, Joseph S. (See Hall, J. H., and Comerford.)
- Comerford, Nicholas J., Joliet, Ill. Signalling device. 1,711,775; May 7.
- Comey, R. H., Brooklyn Company. (See Grier, Herbert E., assignor.)
- Comfee Roll Garter Corporation, The. (See Frame, William, assignor.)
- Comfo Electric Iron Company, The. (See Hoofnagle, William T., assignor.)
- Comfolastic Corporation. (See Mayer, Jerome, assignor.)
- Comfort, Ben C., Versailles Borough, Pa. Radio circuit. 1,738,232; Dec. 3.
- Comins, Frank B., Newton, assignor to American Moistening Company, Boston, Mass. Centrifugal humidifier. 1,726,213; Aug. 27.
- Comins, Frank B., Newton, Mass., assignor to American Moistening Company, Providence, R. I. Apparatus for conditioning air. 1,726,214; Aug. 27.
- Commercial Cable Company, The. (See Sinnott, Henry J., assignor.)
- Commercial Importing Co. (See Shaw, John N., assignor.)
- Commercial Pigments Corporation. (See Blumenfeld, Joseph, assignor.)
- Commercial Pigments Corporation. (See de Rohden, Charles, assignor.)
- Commercial Shearing & Stamping Company. (See Hilton, Jack L., assignor.)
- Commercial Shearing & Stamping Company, The. (See Proctor, Robert V., assignor.)
- Commercial Solvents Corporation. (See Arsem, William C., assignor.)
- Commercial Solvents Corporation. (See Edmonds, William J., assignor.)
- Commercial Solvents Corporation. (See Reilly, J., and Blair, assignors.)
- Commin, Frederick J., Westminster, London, and A. H. J. Wright, Higham, England. Roofing and other sheet and making same. 1,700,561; Jan. 29.
- Commonwealth Edison Company. (See Smith, George M., assignor.)
- Commonwealth Finance Corporation. (See Lundgren, William E., assignor.)
- Commonwealth Shoe & Leather Company. (See Jones, Paul, assignor.)
- Commonwealth Steel Company. (See Driemeyer, George F., assignor.)
- Commonwealth Steel Company. (See Hallquist, Einar G., assignor.)
- Commonwealth Steel Company. (See McCormick, John A., assignor.)
- Commonwealth Steel Company. (See Pfleger, Harry M., assignor.)
- Commonwealth Steel Company. (See Roebbel, Frederick W., assignor.)
- Commonwealth Steel Company. (See Sheehan, W. M., and Hallquist, assignors.)
- Compagnie Continentale pour la Fabrication des Compteurs & Autres Appareils. (See Mercier, René, assignor.)
- Compagnie d'Applications Mecaniques. (See Rouanet, Louis, assignor.)
- Compagnie des Forges et Acieries de la Marine et d'Homecourt. (See Granat, Elie, assignor.)
- Compagnie Electro-Mecanique. (See Darrieus, Georges J., assignor.)
- Compagnie Electro-Mecanique. (See Marfaing, Henri L., assignor.)
- Compagnie Generale d'Asséchement & d'Aération, Société Anonyme. (See Knapen, Achille, assignor.)
- Compagnie Generale d'Electricite. (See Delon, Jules, assignor.)
- Compagnie Generale des Conduites d'Eau, Societe Anonyme. (See Doat, Henri, assignor.)
- Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann. (See Durr, André H. V., assignor.)
- Compagnie pour la Fabrication des Compteurs et Matériel d'Usines a Gaz. (See Chirol, Maurice, assignor.)
- Compagnie pour la Fabrications des Compteurs et Matériel d'Usines a Gaz et al. (See Chirol, Maurice, assignor.)
- Compagnie pour la Fabrication des Compteurs et Matériel d'Usines a Gaz. (See Dubusc, Roger, assignor.)
- Compagnies Reunies des Glaces & Verres Speciaux du Nord de la France. (See Despret, Georges P., assignor.)
- Compain, Jeronimo D., Stewart, Cuba. Continuous filter. 1,712,258; May 7.
- Compania Agricola Miraflores, S. A. (See Leon, Ricardo, assignor.)
- Company C. P. Goerz Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goerz Opticky Ustav. (See von Hofe, Christian, assignor.)
- Compo, John J., Defiance, Ohio. Thermostatic switch. 1,734,473; Nov. 5.
- Comprex Oscillator Corporation. (See Wappler, Frederick C., assignor.)
- Comptoir General de Vente de la Montre Roskopf Societe Anonyme vve. Chs. Leon Schmid & Cie. (See Jeanneret, Abram-Louis, fils, assignor.)
- Compton, Auburn W., et al. (See Shook, John A., assignor.)
- Compton, Donald L., Aurora, Ill. Powder box. 1,709,840; Apr. 23.
- Compton, George, assignor to The Rattan Mfg. Co., New Haven, Conn. Baby carriage. 1,706,915; Mar. 26.
- Compton, Homer R. (See Pyle, B. B., and Compton.)
- Compton, William H. (See Wallace, F. H., and Compton.)
- Computing-Tabulating-Recording Co. (See Peirce, John R., assignor.)
- Comstock-Castle Stove Company. (See Sandell, Joseph H., assignor.)
- Comstock, Corry B., assignor to Comstock Oven Company, Inc., New York, N. Y. Traveling conveyor for bakers' ovens and tracks therefor. 1,724,908; Aug. 20.
- Comstock, Corry B., assignor to Comstock Oven Company, Inc., New York, N. Y. Baker's oven. 1,728,664; Sept. 17.
- Comstock, Daniel F., Cambridge, assignor to Comstock & Wescott, Inc., Boston, Mass. Headlight screen or lens. 1,699,224; Jan. 15.
- Comstock, Daniel F., Cambridge, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Apparatus for liquid treatment of photographic films. 1,707,709; Apr. 2.
- Comstock, Daniel F., Cambridge, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Method and apparatus for imbibition printing. 1,707,710; Apr. 2.
- Comstock, Daniel F., Brookline, assignor to Comstock & Wescott, Inc., Boston, Mass. Making lenses or the like. 1,722,368; July 30.
- Comstock, Frederick E., Valparaiso, Ind. Line and weight attachment for fish baits. 1,733,777; Oct. 29.
- Comstock, Frederick E., Valparaiso, Ind. Universal fish bait. 1,702,074; Feb. 12.
- Comstock, Frederick E., Valparaiso, Ind. Horizontal fin for fish baits. 1,713,998; May 21.
- Comstock, Frederick E., Paw Paw, Mich. Cleaning device. 1,716,031; June 4.



- Comstock, Gregory J., Pittsburgh, Pa. Nail and the like and making the same. 1,697,810; Jan. 1.
- Comstock Oven Company. (See Comstock, Corry B., assignor.)
- Comstock & Wescott, Inc. (See Comstock, Daniel F., assignor.)
- Comstock & Wescott, Incorporated. (See Wescott, Ernest W., assignor.)
- Comstock, William P. (See Souto, Baldomero V., assignor.)
- Comyn, Bernard D., Bridge-of-Weir, Scotland. Apparatus for separating liquids. 1,707,077; Mar. 26.
- Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 77,395; Jan. 8.
- Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 77,638; Feb. 5.
- Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase bezel. Des. 78,447; May 7.
- Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 79,879; Nov. 12.
- Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 80,116; Dec. 17.
- Conant, David J., Memphis, Tenn., assignor to Westinghouse Electric & Manufacturing Company. Die-casting machine. 1,724,395; Aug. 13.
- Conant, Leon B., Cambridge, Mass., assignor to Standard Patent Process Corporation. Making combination heels. 1,699,953; Jan. 22.
- Conant, Leon B., Cambridge, Mass., assignor, by mesne assignments, to Standard Patent Process Corporation. Producing treads. 1,703,476; Feb. 26.
- Conant, Leon B., Cambridge, Mass., assignor, by mesne assignments, to Standard Patent Process Corporation. Rubber heel. 1,713,368; June 11.
- Conant, Leon B., Cambridge, Mass., assignor, by mesne assignments, to Standard Patent Process Corporation. Vulcanizing rubber to leather. 1,719,101; July 2.
- Conant, William H., Bronxville, assignor to Carlstadt Holding Corporation, New York, N. Y. Printing device. 1,724,749; Aug. 13.
- Conard, Frederick U., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Check protecting. 1,732,223; Oct. 22.
- Conaway, Ernest A., Little Rock, Ark., assignor to J. H. Conaway, Clayton, Mo. Latching device. 1,704,558; Mar. 5.
- Conaway, Jean H. (See Conaway, Ernest A., assignor.)
- Concentric Air Cells Automatic Company. (See Jurgensen, August P., assignor.)
- Concrete Engineering Company. (See Meyer, Charles L., assignor.)
- Concrete Engineering Company. (See Ochiltree, Ned A., assignor.)
- Concrete Engineering and Equipment Company. (See Garvin, E. J., and Johnson, assignors.)
- Condenser Corporation of America. (See Danziger, Harold I., assignor.)
- Conger, Thomas L., assignor of forty-nine one-hundredths to A. W. Hamby, Columbia, S. C. Store service. 1,703,477; Feb. 26.
- Condit Electrical Manufacturing Corporation. (See Ainsworth, Chester D., assignor.)
- Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)
- Condit Electrical Manufacturing Corporation. (See Edsall, William S., assignor.)
- Condit Electrical Manufacturing Corporation. (See Greene, Austin E., assignor.)
- Condit Electrical Manufacturing Corporation. (See Greenwood, Talma T., assignor.)
- Condit Electrical Manufacturing Corporation. (See Jansson, Gustav E., assignor.)
- Condit Electrical Manufacturing Corporation. (See Kelle, Arthur C., assignor.)
- Condit Electrical Manufacturing Corporation. (See Mahoney, Joseph N., assignor.)
- Condit Electrical Manufacturing Corporation. (See O'Keeffe, George W., assignor.)
- Condit Electrical Manufacturing Corporation. (See Pinkham, Henry P., assignor.)
- Condit Electrical Manufacturing Corporation. (See Wood, Joseph D., assignor.)
- Condit Electrical Manufacturing Corporation. (See Wood, Morris B., assignor.)
- Condon, Kate, Chicago, Ill. Stocking protector. 1,727,586; Sept. 10.
- Condor Company, The. (See Rosenthal, C., and Armistead, assignors.)
- Conduit, Loa B. (See Gold, S., and Conduit.)
- Cone, Alfred L., New York, N. Y., assignor to Merek & Co., Inc., Rahway, N. J. Receptacle closure. 1,725,393; Aug. 20.
- Cone, Charles N. (See Rippey, H. F., Davidson, Cone, Laucks, and Banks.)
- Cone, Charles N., G. Davidson, and I. F. Laucks, assignors to I. F. Laucks Inc., Seattle, Wash. Making a water-resistant adhesive and the product thereof. 1,726,510; Aug. 27.
- Cone, David S., assignor to Beacon Devices, Inc., North Tonawanda, N. Y. Apparatus for charging pressure containers. 1,728,476; Sept. 17.
- Cone, Frank L., Windsor, Vt. Tool stop for automatic screw machines. 1,716,303; June 4.
- Cone, Howard M., Longview, Wash., assignor of one-half to The Long-Bell Lumber Company, Kansas City, Mo. Thermostatic control of a vent in a chamber. 1,705,176; Mar. 12.
- Cone, Mark R., Sudbrook Park, Md., assignor, by mesne assignments, to The Union Trust Company, Cleveland, Ohio. Treating bituminous material. 1,698,877; Jan. 15.
- Cone, Mark R., Sudbrook Park, Md., assignor, by mesne assignments, to The Union Trust Company, Cleveland, Ohio. Bituminous product. 1,698,878; Jan. 15.
- Conescu, William. (See Podell, J., and Conescu.)
- Coney, Ralph B., Horseheads, N. Y. Safety device. 1,716,685; June 11.
- Congable, Henry F., Oakland, Calif. Irrigation pipe valve. 1,737,959; Dec. 3.
- Congoleum-Nairn, Inc. (See Allen, Frank M., assignor.)
- Congoleum-Nairn, Inc. (See Bonney, Robert D., assignor.)
- Congoleum-Nairn, Inc. (See Clarke, Arthur E., assignor.)
- Congoleum-Nairn Inc. (See Glaeser, Charles G. H., assignor.)
- Congoleum-Nairn Incorporated. (See Veit, Walter, assignor.)
- Conger Mfg. Company, The. (See Gorsuch, Robert A., assignor.)
- Conill, Fernan O., Marseille, France. Auxiliary and movable wings to be brought in use on the departure and on the landing of high-speed aeroplanes. 1,706,956; Mar. 26.
- Conill, Fernan O., Marseilles, France. Refrigeration. 1,738,233; Dec. 3.
- Conill, Fernan O., Cannes, France. Mechanically-driven massage apparatus. 1,723,268; Aug. 6.
- Conkle, Charles A., Philadelphia, Pa. Fire escape. 1,713,028; May 14.
- Conkle, William H., Phenix City, Ala. Feeler mechanism for magazine looms. 1,742,134; Dec. 31.
- Conklin, John H., assignor to Gong Bell Manufacturing Company, East Hampton, Conn. Toy speaking phone. 1,704,880; Mar. 12.
- Conklin, Roscoe D., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Step-operated treadle switch. 1,737,409; Nov. 26.
- Conlan, David, Brooklyn, N. Y. Motor-vehicle lock. 1,737,043; Nov. 26.
- Conley, Arthur W., Cleveland Heights, Ohio. Ozonizer. Des. 77,891; Mar. 5.
- Conley, Brooks L., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Mounting for armatures. 1,717,145; June 11.
- Conley, Hugh A., Los Angeles, Calif., assignor of forty-nine per cent to Conley Plastering Machine Co., Incorporated, Bisbee, Ariz. Plastering machine. 1,737,044; Nov. 26.
- Conley, John E. (See Marden, J. W., Thomas, and Conley.)
- Conley, Joseph D., Culver City, Calif. Book end. Des. 79,702; Oct. 29.
- Conley, Patrick J., Galveston, Tex. Locomotive fire box. 1,705,718; Mar. 19.
- Conley Plastering Machine Co., Incorporated. (See Conley, Hugh A., assignor.)
- Conlon Corporation. (See Anderson, C. F., and Janda, assignors.)
- Conlon Corporation. (See Janda, Rudolph W., assignor.)
- Conlon, Thomas A., Silver Spring, Md. Semiautomatic rammer for guns. 1,705,659; Mar. 19.
- Conn, C. G., Ltd. (See Carlson, Iddo E., assignor.)
- Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)
- Conn, George C., Flint, assignor to General Motors Corporation, Detroit, Mich. Decking device. 1,734,006; Oct. 29.
- Conn, Joseph C., Boonton, N. J. Mechanical movement. 1,701,173; Feb. 5.
- Connaut Shovel Company, The. (See Denning, James M., assignor.)
- Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
- Connecticut Specialties Corporation, The. (See Fairchild, Charles N., assignor.)
- Connecticut Telephone & Electric Company. (See Cadieux, Joseph O.)
- Connecticut Telephone & Electric Company. (See Donle, Harold P., assignor.)
- Conneely, Thomas A. (See Larkin, E. B., and Conneely.)
- Connell, Burnett, et al. (See Cross, Anne W., assignor.)
- Connell, Edwin L., and F. Schneider, assignors to The Van Dorn Electric Tool Company, Cleveland, Ohio. Stud-setting machine. 1,732,038; Oct. 15.
- Connell, Francis B., and E. V. Kelley, Berkeley, Calif. Foot valve. 1,699,954; Jan. 22.
- Connell, John W., Montreal, Quebec, C., assignor to Publius Limited, Montreal, Quebec, Canada. Advertising frame for vehicles. 1,721,804; July 23.
- Connell, Karl, Branch, N. Y. Composition for therapeutic uses. 1,704,727; Mar. 12.
- Connell, Norton H., and M. McMahan, Jacksonville, Fla. Combined refrigerator and display stand. 1,711,921; May 7.



- Connell, Stanley L., assignor to The Girard Model Works Inc., Girard, Pa. Mechanical motor. 1,697,226; Jan. 1.
- Connell, Willard B. (See Washington, Dixon E., assignor.)
- Connell, William S., Cleveland, Ohio. Metal stud and joist. 1,733,778; Oct. 29.
- Connell, William S., Cleveland, Ohio. Fabricated wall support. 1,733,779; Oct. 29.
- Connellsville Mfg. & Mine Supply Co., The. (See Allen, A., and Lepley, assignors.)
- Connolly, Donald S., assignor to The Safety Stair Tread Company, Wooster, Ohio. Sanitary cover for floor coverings. 1,722,660; July 30.
- Connolly, Peter F., Spokane, Wash. Tamping machine. 1,700,194; Jan. 29.
- Connolly, Peter F., Spokane, Wash. Tamping machine. 1,740,538; Dec. 24.
- Connolly, Charles B. (See Jones, B. W., and Connolly.)
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Multiple electric connecting device. Des. 78,966; July 16.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Combined pipe holder and tobacco container. Des. 79,065; July 30.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Jar. Des. 79,179; Aug. 13.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Jar. Des. 79,180; Aug. 13.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Jar or similar container for cigars and the like. Des. 79,181; Aug. 13.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Multiple electric connecting device. 1,717,836; June 18.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Humidor. 1,733,648; Oct. 29.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Container. 1,733,649; Oct. 29.
- Conner, Benjamin F., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Cigarette-smoker's set. 1,737,644; Dec. 3.
- Conner, Benjamin F., Hartford, and W. F. Schmalz, Rockville, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Medical-tablet container. 1,737,643; Dec. 3.
- Conner Crouse Corporation. (See Crouse, George B., assignor.)
- Conner, Edward A., Stratford, Conn., assignor to American Chain Company, Inc. Attachment for strand, ropes, or cables. 1,717,665; June 18.
- Conner, Edward A., Stratford, Conn., assignor, by mesne assignments, to America Cable Company, Inc. Wire rope and making same. 1,732,640; Oct. 22.
- Conner, James H., assignor to Conner White Co., Rosman, N. C. Burner. 1,724,258; Aug. 13.
- Conner, Samuel A., Upland, Calif. Sanitary fountain. 1,726,059; Aug. 27.
- Conner White Co. (See Conner, James H., assignor.)
- Conner, William T., Eldorado, Tex. Grave-filling machine. 1,739,026; Dec. 10.
- Connorsville Blower Company, The. (See Houghton, Carl R., assignor.)
- Connorsville Blower Co., The. (See Townsend, William, assignor.)
- Connet, Frederick N., assignor to Builders Iron Foundry, Providence, R. I. Reversible flow meter. 1,700,027; Jan. 22.
- Conniff, Raymond L., Ironwood, Mich. Metallic window frame and sash construction. 1,705,439; Mar. 12.
- Connolly, Frank, Toledo, Ohio. Egg cooker. 1,739,062; Dec. 10.
- Connolly, Frank P., York, Pa., assignor to Valentine & Company, New York, N. Y. Color-presentation means. 1,727,004; Sept. 3.
- Connolly, George E., Oakland, Calif., assignor to Nichols Copper Company, New York, N. Y. Furnace rabble-arm and tooth construction. 1,736,769; Nov. 26.
- Connolly, Thomas P., Seattle, Wash. Awning-controlling mechanism. 1,712,455; May 7.
- Connolly, William B., assignor to North East Electric Company, Rochester, N. Y. Electric horn. 1,729,281; Sept. 24.
- Connor, Benjamin H. (See Hardinge, F., and Connor.)
- Connor, Edwin L., Providence, R. I. Safety razor. 1,704,591; Mar. 5.
- Connor, James G., assignor of one-third to H. L. Reynolds and one-sixth to S. T. Hurlock, Jr., Harrisburg, Pa. Aeroplane. 1,734,114; Nov. 5.
- Connor, Joseph P., Towson, Md. Golf bag. 1,699,048; Jan. 15.
- Connor, Lewis H., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-supplying apparatus. 1,719,319; July 2.
- Connor, Raymond M., assignor to Portland Gas & Coke Company, Portland, Oreg. Portable bake oven. 1,697,827; Jan. 1.
- Connor, Walter, Windsor, Ontario, Canada. Tire-rim tool. 1,725,567; Aug. 20.
- Connor, William L. (See Ofstad, Nicholas J., assignor.)
- Connors, Frederick P., Detroit, Mich. Resilient vehicle wheel. 1,715,900; June 4.
- Connors, John M., Forest Station, Me. Horse collar. 1,734,796; Nov. 5.
- Connors, John W., Dedham, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. 1,710,765; Apr. 30.
- Connors, Thomas F., Columbus, Ohio, assignor to C. G. McGhie, St. Catharines, Ontario, Canada. Making tubular metallic handles. 1,724,342; Aug. 13.
- Conover, Arthur V., assignor to Interflash Signal Corporation, New York, N. Y. Highway flashing signal. 1,719,592; July 2.
- Conover, Charles F., Brooklyn, N. Y. Control device for stoves. 1,728,107; Sept. 10.
- Conover, Henry V., assignor of one-half to E. H. Wolkind, Buffalo, N. Y. Seal fastener for freight-car doors. 1,717,666; June 18.
- Conover, Voorhis C., North Tarrytown, N. Y. Creeper or antislip device for shoes. 1,722,840; July 30.
- Conover, William E., and B. D. Bush, assignors to Utica Duxbak Corporation, Utica, N. Y. Hunting coat. 1,724,343; Aug. 13.
- Conrad, David E., and V. V. Baldwin, Eldon, Iowa. Spark and weather strip. 1,697,108; Jan. 1.
- Conrad, David E., and V. V. Baldwin, Eldon, Iowa. Latch for the operating levers of car doors. 1,705,751; Mar. 19.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inductor helix. 1,702,461; Feb. 19.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-electrode vacuum tube. 1,709,659; Apr. 16.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,730,124; Oct. 1.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Duplex radio transmission system. 1,732,741; Oct. 22.
- Conrad, Fred A., assignor to American Lace Paper Company, Milwaukee, Wis. Paper dolly. Des. 77,813; Feb. 26.
- Conrad, Fred A., assignor to American Lace Paper Company, Milwaukee, Wis. Paper napkin. Des. 78,345; Apr. 23.
- Conrad, Fred A., assignor to American Lace Paper Company, Milwaukee, Wis. Napkin. Des. 78,346; Apr. 23.
- Conrad, Fred A., assignor to American Lace Paper Company, Milwaukee, Wis. Napkin. Des. 79,017; July 23.
- Conrad, Isiah, assignor to F. O. Schoedinger, Columbus, Ohio. Loose-leaf binder. 1,734,898; Nov. 5.
- Conrad, Nicholas J., Winnetka, assignor to Schweitzer & Conrad, Chicago, Ill. Primary cut-out. Re17,214; Feb. 12.
- Conrad, Ray, Wapato, Wash. Box tongs. 1,735,917; Nov. 19.
- Conrader, Rudolph, Erie, Pa. Method of and apparatus for treating oil and its constituents. 1,701,870; Feb. 12.
- Conradi, Carolyn. (See Franck, Clarence, assignor.)
- Conradson, Conrad M., Green Bay, Wis. Chuck. 1,727,535; Sept. 10.
- Conrow, Robert S., Cincinnati, Ohio. Metal blackboard. 1,708,082; Apr. 9.
- Conry, Kate, Philadelphia, Pa. Pie ring. 1,734,328; Nov. 5.
- Conservation Corporation of America. (See Rice, George E., assignor.)
- Conservo Company, The. (See McClave, James M., assignor.)
- Consolidated Aircraft Corporation. (See Oversmith, Ralph E., assignor.)
- Consolidated Ashcroft Hancock Company. (See Heman, Emil A., assignor.)
- Consolidated Ashcroft Hancock Company. (See Heise, Otto W., assignor.)
- Consolidated Ashcroft Hancock Company. (See Hopkins, F. H., and Woodman, assignors.)
- Consolidated Ashcroft Hancock Company. (See Ileman, Emil A., assignor.)
- Consolidated Ashcroft Hancock Company. (See Nickerson, Henry B., assignor.)
- Consolidated Ashcroft Hancock Company. (See Ziegler, William G., assignor.)
- Consolidated Automatic Merchandising Corporation. (See Du Grenier, Arthur H., assignor.)
- Consolidated Automatic Merchandising Corporation. (See Woods, Harold B., assignor.)
- Consolidated Car-Heating Company. (See Bosenbury, Joseph M., assignor.)
- Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
- Consolidated Car-Heating Company. (See Hynes, L. P., and Griffin, assignors.)
- Consolidated Car-heating Company. (See Oakley, George E., assignor.)
- Consolidated Hardware Manufacturers, Incorporated. (See Bartholomew, Bert E., assignor.)
- Consolidated Lamp & Glass Company. (See Haley, Reuben, assignor.)
- Consolidated Macaroni Machine Corporation. (See De Francisci, Joseph, assignor.)
- Consolidated Machine Tool Corporation of America. (See Trosch, Alfred, assignor.)
- Consolidated Mattress Co. (See Herbener, Henry M., assignor.)



- Consolidated Safety Pin Company. (See Hagel, Albert, assignor.)
- Consolidated Steel Corporation. (See Gallagher, Charles R., assignor.)
- Consolidated Steel Corporation. (See Griffin, Alvah M., assignor.)
- Consolidated Steel Corporation. (See Schmidt, A. G., and Medenwald, assignors.)
- Consolidated Steel Strapping Company. (See Lau, Edwin F., assignor.)
- Consolidated Steel Strapping Company. (See Pagel, E. C., and Treat, assignors.)
- Consolidation Coal Products Company. (See McIntire, Charles V., assignor.)
- Consortium für Elektrochemische Industrie. (See Herrmann, W. O., and Deutsch, assignors.)
- Consortium für Elektrochemische Industrie. (See Mugdan, M., and Wimmer, assignors.)
- Constantator Co., The. (See Spillane, James D., assignor.)
- Constantinesco, George, Weybridge, England. Driving gear for motor vehicles and for other purposes. 1,715,816; June 4.
- Constantinesco, George, Weybridge, England. Carbureting apparatus. 1,730,268; Oct. 1.
- Constantinesco, George, Weybridge, England. Unidirectional driving device. 1,738,692; Dec. 10.
- Construction Machinery Company. (See Rosendahl, Nils M., assignor.)
- Consumers Tobacco Company. (See Mewborne, Robert G., assignor.)
- Contact Filtration Company. (See Black, John C., assignor.)
- Contact Filtration Company. (See Chappell, Marvin L., assignor.)
- Container Corporation of America. (See Buehler, John B., assignor.)
- Container Corporation of America. (See Walter, Harrison B., assignor.)
- Content, Arthur A., Yakima, Wash. Mail box. 1,735,379; Nov. 12.
- Conterio, James A., Chicago, Ill. Propelling mechanism. 1,699,687; Jan. 22.
- Conti, Eugene, Cliffside Park, N. J., assignor to A. Herz, New Rochelle, N. Y. Machine for coating tubes. 1,707,711; Apr. 2.
- Conti, Eugene, Jersey City, N. J., assignor to A. Herz, New Rochelle, N. Y. Tube-forming machine. 1,716,424; June 11.
- Conti, Eugene, Jersey City, N. J., assignor to A. Herz, New Rochelle, N. Y. Tube-forming machine. 1,716,425; June 11.
- Conti, James T. F., assignor to René L. Jacques Laurent de la Ville le Roulx, Paris, France. Telephone. 1,739,889; Dec. 17.
- Continental Can Company. (See Jackson, George F., assignor.)
- Continental Axle Company. (See Davis, Durrel H., assignor.)
- Continental Baking Company. (See Barber, George G., assignor.)
- Continental Can Company. (See Aulbach, Charles J., assignor.)
- Continental Can Company. (See Burbank, Leonard, assignor.)
- Continental Can Company. (See Fink, Henry A., assignor.)
- Continental Can Company. (See Flook, George, assignor.)
- Continental Can Company. (See Freeman, Ernest W., assignor.)
- Continental Can Company. (See Hill, Hugh G., assignor.)
- Continental Can Company. (See Humphrey, Glen S., assignor.)
- Continental Can Company. (See Laxo, Ed, assignor.)
- Continental Can Company. (See Laxo, E., and Schaal, assignors.)
- Continental Can Company. (See Ross, Victor G., assignor.)
- Continental Can Company. See Sedwick, Mathew M., assignor.)
- Continental Can Company. (See Seigh, Joseph W., assignor.)
- Continental Can Company. (See Sumner, Arthur D., assignor.)
- Continental-Diamond Fibre Company. (See Bengel, F. H., and Titus, assignors.)
- Continental-Diamond Fibre Company. (See Landt, G. E., and Adams, assignors.)
- Continental Gin Company. (See Elliott, Thomas, assignor.)
- Continental Greenhouse Mfg. Company. (See Keeler, John N., assignor.)
- Continental Motors Corporation. (See Frederick, Walter A., assignor.)
- Continental Motors Corporation. (See Kalb, Lewis P., assignor.)
- Continental Motors Corporation. (See Kreis, Oscar C., assignor.)
- Continental Motors Corporation. (See Niven, Archie M., assignor.)
- Continental Motors Corporation. (See Waddell, William, assignor.)
- Continental Oil Company. (See Ruby, Arthur H., assignor.)
- Continental Oil Company. (See Naylor, Leslie W., assignor.)
- Continental Optical Corporation. (See Gagnon, Leo O., assignor.)
- Continental Products Company, The. (See Southey, Samuel J., jr., assignor.)
- Continental Railway Supply Corporation. (See Hyle, J. A., and Keatley, assignors.)
- Continental Rubber Works. (See Henkel, Paul H., assignor.)
- Continental Rubber Works. (See Luce, Robert B., assignor.)
- Continental Scale Works. (See Weber, Mathias J., assignor.)
- Continental Steel Corporation. (See McComb, John F., assignor.)
- Continental Tool Works. (See Markstrum, John A., assignor.)
- Continouza, Victor, and M. B. Combes, Paris, France. Correcting device for cinematographs with continuously-moving film. 1,739,442; Dec. 10.
- Continuous Rail Crossing Corporation. (See Fairbanks, Edward L., assignor.)
- Continuous Train Control Corporation. (See Clark, Thomas E. and J. E., assignors.)
- Continuous Train Control Corporation. (See Coop, William L., assignor.)
- Contolini, Ferruccio F., Union City, N. J. Tambourine ball game. 1,700,251; Jan. 29.
- Convenience Products Corporation. (See Wels, John A., assignor.)
- Converse, Ellen E., Louisville, Ky. Hose supporter. 1,724,344; Aug. 13.
- Converse, Francis B., Westport, Conn., assignor to Skinner Organ Company, Boston, Mass. Organ-stop control. 1,740,155; Dec. 17.
- Converse, Harry. (See Robbins, W. H., and Converse.)
- Converse, John E., assignor of one-half to E. T. Williams, Alma, Mich. Combination lock. 1,707,797; Apr. 2.
- Converse Rubber Company. (See Paterson, Morton L., assignor.)
- Conway, Edith J. (See Lindemann, Adolph, assignor.)
- Conway, Roy D., Basking Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,700,469; Jan. 29.
- Conwell Graphic Company. (See Hornecker, George, assignor.)
- Conwell Graphic Company. (See Jackson, Harvey F., assignor.)
- Conwell, Rollin N., Bloomfield, N. J. Electrical method and apparatus. 1,711,776; May 7.
- Conwell, Rollin N., Bloomfield, N. J. Electrical system. 1,718,454; June 25.
- Conzemi, Vincent. (See Sigman, Myer, assignor.)
- Cook, A. D., Inc. (See Patton, Herbert F., assignor.)
- Cook, Adoniram J., Westerlo, N. Y. Rail anticreep and antispread anchor. 1,724,182; Aug. 13.
- Cook, Albert E., Evanston, Ill. Corrugated auto marine vehicle. 1,722,516; July 30.
- Cook, Asa S., Company, The. (See Crosby, Reuben S., assignor.)
- Cook, Benjamin A., Fitchburg, Mass. Wall-paper advertising device. 1,721,615; July 23.
- Cook, Berton E., Chicago, Ill. Hand-operated latch needle. 1,704,790; Mar. 12.
- Cook, Bessie M., Yonkers, N. Y. Receptacle. 1,697,494; Jan. 1.
- Cook, Carl B., Haddonfield, N. J. Forming beveled leather strips. 1,699,348; Jan. 15.
- Cook, David B., assignor to Acme Road Machinery Company, Frankfort, N. Y. Snowplow. 1,701,746; Feb. 12.
- Cook, David B., Frankfort, N. Y. Apparatus for handling snow. 1,708,376; Apr. 9.
- Cook, Earl H., Watertown, Wis. Equalizing device for extension tables. 1,718,635; June 25.
- Cook, Earle S. (See Dean, W. E., and Cook.)
- Cook, Earle S., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Split reduction device. 1,703,869; Mar. 5.
- Cook, Earle S., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. 1,714,078; May 21.
- Cook, Edmund R., Oakland, Calif. Air cooler and refrigerator. 1,710,766; June 11.
- Cook Electric Company, The. (See Baker, John S., assignor.)
- Cook Electric Company. (See Folds, G. R., and Persons, assignors.)
- Cook Electric Company. (See Persons, Lawrence M., assignor.)
- Cook, Frank L., assignor of one-half to S. D. Camper, Louisville, Ky. Boiling coil for brine tanks of refrigerating apparatus. 1,702,644; Feb. 19.
- Cook, Frank L., assignor of one-half to S. D. Camper, Louisville, Ky. Refrigerating apparatus. 1,718,530; June 25.
- Cook, George C., Millington, N. J. Heat-interchanger unit for regenerative air preheaters. 1,722,788; July 30.
- Cook, George E., Woodside, N. Y. Directory for drivers. 1,710,207; Apr. 23.
- Cook, H. C., Company, The. (See Carter, C. S., and Polkosnik, assignors.)
- Cook, Hal L., Cleveland Heights, assignor to The Rotor Air Tool Company, Cleveland, Ohio. Governor for fluid-pressure motors. 1,729,030; Sept. 24.



- Cook, Harvey S., Valparaiso, Ind., assignor to Cook Laboratories, Inc. Syringe cartridge. 1,704,936; Mar. 12.
- Cook, Herbert R. (See McDonald, C. T., and Cook.)
- Cook, Herbert R., and C. A. Johnson, assignors to Chicago Jefferson Fuse & Electric Company, Chicago, Ill. Cartridge fuse. 1,702,354; Feb. 19.
- Cook, Hugh M., New York, N. Y., and L. R. Rogers, Cottage Hill, Fla., assignors to Walles Dove-Hermiston Corporation, New York, N. Y. Coating pipes. 1,733,006; Oct. 22.
- Cook, James B. (See Curtis, J. C., and Cook.)
- Cook, Jesse C., Jeffersonville, Ind., assignor to American Creosoting Company, Louisville, Ky. Heating system for storage tanks. 1,713,263; May 14.
- Cook, Jesse F., Meridian, Miss. Applicator for medications. 1,711,341; Apr. 30.
- Cook, John, Muncie, Ind. Smoker's stand. Des. 79,880; Nov. 12.
- Cook, John H., Salt Lake City, Utah. Valve. 1,728,855; Sept. 17.
- Cook, John H., Salt Lake City, Utah. Valve-actuating platform. 1,723,856; Sept. 17.
- Cook, John T., assignor to A. F. Hoffenreffer, Fall River, Mass. Combustion. 1,698,253; Jan. 8.
- Cook, John W. D. (See Weinstein, M. B., and Cook.)
- Cook, Joseph, assignor to Blue Valley Creamery Company, Chicago, Ill. Machine for perforating paper from rolls. 1,726,611; Sept. 3.
- Cook, Joseph D. (See Anderson, Joseph A., assignor.)
- Cook, Kenneth B., Providence, and L. P. Gervais, Pawtucket, R. I., assignors to Manville-Jenckes Company. Making tire cord. 1,739,481; Dec. 10.
- Cook Laboratories, Inc. (See Brown, Henry K., assignor.)
- Cook Laboratories, Inc. (See Cook, Harvey S., assignor.)
- Cook Laboratories, Inc. (See Cressler, Edward P., assignor.)
- Cook Laboratories, Inc. (See Kulik, Irving, assignor.)
- Cook Laboratories, Inc. (See MacGregor, John, assignor.)
- Cook Laboratories, Inc. (See Marcy, Ernest H., assignor.)
- Cook Laboratories, Inc. (See Rehm, Roland C., assignor.)
- Cook Laboratories, Inc. (See Steuer, Fred W., assignor.)
- Cook Laboratories, Inc. (See Heineman, Paul G. and H. E. O., assignors.)
- Cook, Ralph L., Mooresville, Ind. Mixer. 1,702,931; Feb. 19.
- Cook, Roy M. (See Lint, J. N., and Cook.)
- Cook, Thomas R., assignor to The Hudson Coal Company, Scranton, Pa. Tailgate-mounting means. 1,700,923; Feb. 5.
- Cook, Wallace L., assignor to The Reliable Electric Co., Chicago, Ill. Discharge block. 1,826,807; Sept. 3.
- Cook, William A., assignor to Marion Machine, Foundry & Supply Company, Marion, Ind. Sand reel. 1,707,219; Apr. 2.
- Cook, William A., Marion, assignor to J. A. Shafer, Indianapolis, and O. C. King, Marion, Ind. Railway gate. 1,716,340; June 4.
- Cook, William A., assignor to Marion Machine, Foundry & Supply Company, Marion, Ind. Lubricating means for machines. 1,737,571; Dec. 3.
- Cooke, Allen B., Danville, assignor to United Autographic Register Company, Chicago, Ill. Register. 1,723,760; Aug. 6.
- Cooke & Cobb Company, The. (See Doughty, George E., assignor.)
- Cooke, George S., Alexandria Bay, N. Y. Dispensing machine. 1,699,608; Jan. 22.
- Cooke, George T., South Norwalk, Conn. Self-opening cotter-key means. 1,722,624; July 30.
- Cooke, George T., Norwalk, Conn. Cotter-pin-locking means. 1,740,284; Dec. 17.
- Cooke, George W., assignor of one-half to H. W. Carter, Jr., Portland, Oreg. Check protector. 1,708,566; Apr. 9.
- Cooke, Hereward L., Princeton, assignor to Cooke Patents Incorporated, New York, N. Y. Light-projecting device. 1,712,027; May 7.
- Cooke, Hereward L., Princeton, N. J., assignor to Aero Survey Corp. Method of and apparatus for determining spacial configuration by means of photographs. 1,713,498; May 14.
- Cooke, Hereward L., Princeton, N. J., assignor to Cooke Patents Incorporated, New York, N. Y. Headlight. 1,737,995; Dec. 3.
- Cooke, John W., Colgate, Md. Escape device for submarines. 1,741,827; Dec. 31.
- Cooke Laboratories, Inc. (See Bre Miller, Clifford E., assignor.)
- Cooke, Norman. (See Burgess, W. A. A., and Cooke.)
- Cooke Patents Incorporated. (See Cooke, Hereward L., assignor.)
- Cooke, Samuel B., Richmond, Va. Can opener. 1,702,462; Feb. 19.
- Cooke, Theodore C., Swampscott, Mass. Gyrotory crusher. 1,706,975; Mar. 26.
- Coolbaugh, Melville F., and J. B. Read, Denver, Colo. Treatment of sulphur-bearing minerals. 1,719,534; July 2.
- Coolbroth, Frank H., Brimfield, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Ear-piece. 1,733,579; Oct. 29.
- Cooley, Austin G., New York, N. Y. Phototelegraphic synchronization. 1,739,949; Dec. 17.
- Cooley, Austin G., Cambridge, Mass., assignor of forty-nine one-hundredths to C. C. Henry, Strawberry Point, Iowa. Photographic recording by electric discharge. 1,702,595; Feb. 19.
- Cooley, Austin G., Cambridge, Mass., assignor of forty-nine one-hundredths to C. C. Henry, Strawberry Point, Iowa. Phototelegraphy. 1,719,392; July 2.
- Cooley, Clifford S., New York, N. Y. Waterproof floor covering. 1,720,780; July 16.
- Cooley, Dwight. (See Miller, S. P., Hanser, and Cooley.)
- Cooley, Fred W., Minneapolis, Minn. Loud-speaking apparatus. 1,731,523; Oct. 15.
- Coolidge, Cole. (See Booge, J. E., and Coolidge.)
- Coolidge, Cole. (See Stine, C. M., and Coolidge.)
- Coolidge, Cole. (See Stine, C. M. A., Coolidge, and Middleton.)
- Coolidge, Joseph R., 3d., Brookline, assignor to Montan, Inc., Boston, Mass. Impregnating wood with rubber. 1,733,483; Oct. 29.
- Coolidge, Joseph R., 3d., Brookline, assignor to Montan, Inc., Boston, Mass. Impregnated wood and treating wood. 1,734,714; Nov. 5.
- Coolidge, Joseph R., 3d., Brookline, assignor to Montan, Inc., Boston, Mass. Fire proofed wood and treating wood. 1,734,715; Nov. 5.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray anode. 1,714,975; May 23.
- Cooling Tower Co. Inc., The. (See Coffey, B. H., and Dauphinee, assignors.)
- Coombs, Warren E., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for holding and transporting shoes and heels. 1,703,925; Mar. 5.
- Coombs, Warren E., Boston, Mass., and E. H. Lerchen, East Orange, assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,719,320; July 2.
- Coombs, William, Nottingham, England. Warp or straight-bar knitting machine and the production of fabrics thereon. 1,737,218; Nov. 26.
- Coombs, Fred H., Lynn, assignor to Forbes Lithographic Manufacturing Company, Boston, Mass. Container for merchandise. 1,704,531; Mar. 5.
- Coombs, Fred H., Lynn, assignor to Forbes Lithograph Manufacturing Company, Boston, Mass. Label. 1,735,894; Nov. 19.
- Coombs, Joseph H., Pasadena, Calif. Material spreader. 1,705,901; Mar. 19.
- Coon, Chester C., Oakland, Calif. Cross-arm clamp. 1,722,075; July 23.
- Coon, Chester C., and H. H. Minor, Fresno, Calif.; said Minor assignor to said Coon. Come-along-operating device. 1,741,288; Dec. 31.
- Coon, Horton J., Evanston, Ill. Safety latch for bank vaults. 1,703,225; Feb. 26.
- Coon, Horton J., Evanston, Ill. Safety latch for bank vaults. 1,703,226; Feb. 26.
- Coon, James C., assignor to The Coon-Way Machine Company Incorporated, Brooklyn, N. Y. Powdering machine. 1,732,641; Oct. 22.
- Coon, Leslie E., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Remote control system. 1,711,672; May 7.
- Coon, Roy Windsor, Colo. Beet loader. 1,700,922; Feb. 5.
- Coon, Vilas U., Detroit, Mich. Carburetor heater. 1,709,609; Apr. 16.
- Coon-Way Machine Company, The. (See Coon, James C., assignor.)
- Cooney, Louis M. (See Alden, F., and Cooney.)
- Coons Apple Corporation. (See Coons, Burton C., assignor.)
- Coons, Burton C., Rochester, assignor, by mesne assignments, to Coons Apple Corporation, Gates, N. Y. Canned sliced apples and process of canning the same. 1,735,526; Nov. 12.
- Coons, Charles H., assignor to The Tissue Company, Saugerties, N. Y. Napkin dispenser. 1,719,690; July 2.
- Coons, Emanuel W., Hibbing, Minn. Grappling fork. 1,735,994; Nov. 19.
- Coons, Perry L., Montclair, N. J., assignor to The American Steel and Wire Company of New Jersey. Wire fabric. 1,702,684; Feb. 19.
- Coons, Rollin L., Coudersport, Pa. Combined section folder and press and foundation fastener for honeycombs. 1,705,327; Mar. 12.
- Coony, William C. (See Mulcahy, P. F., and Coony.)
- Coop, William L., assignor to Continuous Train Control Corporation, Detroit, Mich. Brake-controlling valve mechanism. 1,700,283; Jan. 29.
- Cooper, Alva H., Atlanta, Ga., Blow-out shoe. 1,711,014; Apr. 30.
- Cooper, Arthur, et al., executor. (See Chace, William M.)
- Cooper, Arthur, Earlsboro, Okla. Lubricating device for steam engines. 1,706,482; Mar. 26.
- Cooper, Arthur V., sr., Rome, N. Y. Educational device. 1,734,115; Nov. 5.
- Cooper, Charles, Company. (See Barratt, William T., assignor.)
- Cooper Corporation, The. (See Clark, Adrian M., assignor.)
- Cooper Corporation, The. (See Lloyd, William F., assignor.)
- Cooper, David A. (See Thrasher, C. E., and Cooper.)



- Cooper, David A., Dayton, Ohio. Resilient sheet holder for railway cars. 1,741,558; Dec. 31.
- Cooper, Edward R., San Leandro, and A. G. Larson, Piedmont, Calif. Mangle. 1,709,429; Apr. 16.
- Cooper, Ellis W., Los Angeles, Calif. Making connections. 1,711,832; May 7.
- Cooper, Ethel A., Kansas City, Mo. Athletic knee shield for the protection of men's trousers. 1,730,493; Oct. 8.
- Cooper, George E., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Welding machine. 1,706,842; Mar. 26.
- Cooper, George P. (See Thompson, J. W., and Cooper.)
- Cooper, George W., West Harwich, Mass. Fading and static eliminating radioantenna. 1,710,085; Apr. 23.
- Cooper, Glenn A. (See Back, R., and Cooper.)
- Cooper, Henry W., West Newton, assignor to New England Mica Co., Waltham, Mass. Apparatus for forming commutator rings. 1,738,097; Dec. 3.
- Cooper, Herbert, Brooklyn, N. Y. Alignment coupling. 1,722,625; July 30.
- Cooper, Herbert, Brooklyn, N. Y. Alignment coupling. 1,732,354; Oct. 22.
- Cooper Hewitt Electric Company. (See Buttolph, Leroy J., assignor.)
- Cooper Hewitt Electric Company. (See Foulke, Ted E., assignor.)
- Cooper Hewitt Electric Company. (See Mailey, R. D., and Winnighoff, assignors.)
- Cooper Hewitt Electric Company. (See Millar, George A., assignor.)
- Cooper Hewitt Electric Company. (See Moehler, Otto J., assignor.)
- Cooper Hewitt Electric Company. (See Walker, Warren R., assignor.)
- Cooper, Himen, Philadelphia, Pa. Vending-machine casing. Des. 78,267; Apr. 16.
- Cooper, Hugh S. (See Price, R. C., and Cooper.)
- Cooper, Hugh S., Cleveland, Ohio, assignor to Kemet Laboratories Company, Inc. Producing high vacua. 1,721,544; July 23.
- Cooper, Hugh S., Cleveland, Ohio, assignor to Kemet Laboratories Company, Inc. Preparing thorium hydride. 1,730,723; Oct. 8.
- Cooper, Hugh S., Cleveland, Ohio, assignor to Kemet Laboratories Company, Inc. Thorium alloy and preparing the same. 1,732,326; Oct. 22.
- Cooper Humane Trap Co. Inc., The. (See Cooper, William, assignor.)
- Cooper, James H., Detroit, Mich. Power-operated steering gear. 1,719,875; July 9.
- Cooper, James H., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Radiator mounting. 1,701,664; Feb. 12.
- Cooper, Jehangir M., Bombay, India. Printing apparatus. 1,736,034; Nov. 19.
- Cooper, John, Evanston, Ill. Toy railroad track. 1,736,487; Nov. 19.
- Cooper, John J., London, England, assignor to Underwood Elliott Fisher Company, New York, N. Y. Control of electrically-driven reciprocating apparatus. 1,737,358; Nov. 26.
- Cooper, Kenneth F., Great Neck, N. Y. Sodium-cyanide compound and producing the same. 1,734,562; Nov. 5.
- Cooper, Louis, Winnipeg, Manitoba, assignor to S. Cooper, Calgary, Canada. Automobile lock. 1,730,060; Oct. 1.
- Cooper, Martin, assignor of one-half to J. K. Cratts, Thomasville, N. C. Combustion turbine. 1,714,549; May 28.
- Cooper, Robert, assignor to The Hudson Coal Company, Scranton, Pa. Material-handling means. 1,721,002; July 16.
- Cooper, Robert N., assignor to W. W. Williams, Bloomington, Ill. Refrigerating unit. 1,705,460; Mar. 12.
- Cooper, Robert S., Connellsville, Pa. Portable telephone. 1,739,503; Dec. 17.
- Cooper, Simon, assignor to Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Forming confections and machine for carrying out such method. 1,724,563; Aug. 13.
- Cooper, Sophia. (See Cooper, Louis, assignor.)
- Cooper, Treva M., Des Moines, Iowa. Mail box. Des. 77,464; Jan. 15.
- Cooper, Warren E., Flushing, N. Y. Reversible placard. 1,727,336; Sept. 10.
- Cooper, William, assignor to The Cooper Humane Trap Co. Inc., Apalachin, N. Y. Animal trap. 1,726,694; Sept. 3.
- Cooper, William L., Kankakee, Ill. Cooking range. Des. 79,954; Nov. 26.
- Coopersmith Bed Company. (See Coopersmith, Rudolph, assignor.)
- Coopersmith, Rudolph, assignor, by mesne assignments, to Coopersmith Bed Company, St. Louis, Mo. Sofa bed. 1,706,054; Mar. 19.
- Cooté, John M., and C. E. Pryor, Elizabeth, N. J. Radio reproducing attachment for pianos. 1,720,542; July 9.
- Covert, Richard H., assignor to The Pioneer Rubber Company, Willard, Ohio. Playball. 1,708,260; Apr. 9.
- Cope, Arthur. (See Mandel, Jacob A., assignor.)
- Cope, Burton G., Orrville, Ohio. Water heater. 1,722,661; July 30.
- Cope, Ernest C., Spondon, near Derby, England, assignor to Celanese Corporation of America. Apparatus for use in textile processes. 1,725,849; Aug. 27.
- Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Material conveyer for furnaces. 1,699,955; Jan. 22.
- Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Annealing furnace. 1,704,036; Mar. 5.
- Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Loading and unloading apparatus for furnaces. 1,727,050; Sept. 3.
- Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Recuperative annealing furnace. 1,738,038; Dec. 3.
- Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Sealing means for furnace cars. 1,738,040; Dec. 3.
- Cope, Frank T., and R. F. Benzinger, assignors to The Electric Furnace Company, Salem, Ohio. Electric furnace. Re17,388; July 30.
- Cope, Frank T., and A. H. Vaughan, assignors to The Electric Furnace Company, Salem, Ohio. Continuous furnace. 1,738,039; Dec. 3.
- Cope, L. C., et al. (See Bowes, Thomas D., assignor.)
- Cope, Maurice, Kingsley, Iowa. Knockdown hog house. 1,739,387; Dec. 10.
- Copeland, Francis C., San Francisco, Calif. Combined book end, cigarette dispenser and lighter. Des. 77,352; Jan. 1.
- Copeland, Francis C., San Francisco, Calif. Smoker's set. Des. 77,353; Jan. 1.
- Copeland, Harry A., Philadelphia, Pa., assignor of one-fourth to E. V. Rodgers, Cranford, one-fourth to R. Mitchell, and one-fourth to H. W. Vander Voort, Glen Ridge, N. J. Mattress shield. 1,697,633; Jan. 1.
- Copeland, Harry N. (See Slaughter, S. G., and Copeland.)
- Copeland, Harry N., assignor to The Kurz-Kasch Company, Dayton, Ohio. Molding and article produced from plastic material in imitation of onyx, agate, marble, and the like. 1,735,674; Nov. 12.
- Copeland Products, Inc. (See Cornell, Frederick J., assignor.)
- Copeland Products, Inc. (See Little, Thomas J., Jr., assignor.)
- Copeland Products, Inc. (See Mason, George W., assignor.)
- Copeland Products, Inc. (See Muffy, Glenn, assignor.)
- Copeland Products, Inc. (See Muffy, G., and Pierce, assignors.)
- Copeland, Richard R. J., Stoke-on-Trent, England, assignor to Copeland & Thompson, Inc., New York, N. Y. Plate or similar article. Des. 77,396; Jan. 8.
- Copeland, Robert J., Toronto, Ontario, Canada. Hinge for loose-leaf-book covers. 1,697,634; Jan. 1.
- Copeland, Walter M., Cambridge, Mass. Register. 1,702,198; Feb. 12.
- Copeland, William A., Boston, Mass., assignor to International Shoe Company, St. Louis, Mo. Machine for treeing boots and shoes. 1,731,736; Oct. 15.
- Copeland, William A., Boston, Mass., assignor to International Shoe Company, St. Louis, Mo. Shoe-ironing tool. 1,738,285; Dec. 3.
- Copeland & Thompson, Inc. (See Copeland, Richard R. J., assignor.)
- Copeman Laboratories Company. (See Coleman, Lloyd G., assignor.)
- Copeman, Lloyd G., Flint, Mich. Balloon construction. 1,714,079; May 21.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Sharp freezing container for mechanical refrigerators. Re17,278; Apr. 23.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Sharp freezing container for mechanical refrigerators. Re17,279; Apr. 23.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Table-top construction. 1,700,155; Jan. 29.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Making stone castings. 1,700,156; Jan. 29.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Table. 1,701,529; Feb. 12.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerating device. 1,703,299; Feb. 26.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Artificial-stone refrigerator and forming the same. 1,703,511; Feb. 26.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerating cabinet. 1,710,405; Apr. 23.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerating apparatus. 1,710,406; Apr. 23.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Method and apparatus for forming and maintaining sanitation in ice-cream cabinets. 1,711,721; May 7.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Storage compartments for ice-cream cabinets or the like. 1,711,722; May 7.
- Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Flexible sharp-freezing container. 1,740,919; Dec. 24.
- Copeland-Swift Company. (See Wilcox, Le Roy, assignor.)
- Copes, Louis G., Bayonne, N. J. Paint stirrer. 1,732,714; Oct. 22.



- Copes, Louis G., Bayonne, N. J. Muller. 1,740,442; Dec. 24.
- Copithorn, Walter E., Natick, Mass. Tire valve. 1,721,771; July 23.
- Coplan, Harry, Los Angeles, Calif. Scaffold. 1,733,333; Oct. 29.
- Copland, Alexander W., deceased, Detroit, Mich.; Detroit and Security Trust Company, administrator, and H. Green, executor, assignors to S. D. Copland, Birmingham, Mich. Centering chuck. 1,725,342; Aug. 20.
- Copland, Alexander W., and M. I. Mathewson, assignors to Detroit and Security Trust Company, Detroit, Mich. Truing gears. 1,698,213; Jan. 8.
- Copland, Alexander W., Birmingham, Mich., and M. I. Mathewson, Providence, R. I., assignors to Detroit and Security Trust Company, Detroit, Mich. Lap for truing gears and the like. 1,698,214; Jan. 8.
- Copland, Alexander W., Birmingham, Mich., and M. I. Mathewson, Providence, R. I., assignors to Detroit and Security Trust Company, Detroit, Mich. Truing gears and the like. 1,698,215; Jan. 8.
- Copland, Susan D. (See Copland, Alexander W., assignor.)
- Copley, Ira C. (See Evans, Owen B., assignor.)
- Coppage, La Rue R., Brooklyn, assignor to The Coppage Printing and Loose Leaf Company, New York, N. Y. Combined holder and case. 1,702,996; Feb. 19.
- Coppage Printing and Loose Leaf Company, The. (See Coppage, La Rue R., assignor.)
- Coppock, Fred D., Greenville, Ohio. Stackers. 1,732,083; Oct. 15.
- Coppock, Fred D., Greenville, Ohio. Discharge-controlling device for dump bodies. 1,742,058; Dec. 31.
- Coppock, Frederick D., Greenville, Ohio. Slip-on cover. 1,701,441; Feb. 5.
- Coppock, Lambert W., assignor of one-half to A. L. Kroesen, Cleveland, Ohio. Motor vehicle. 1,709,777; Apr. 16.
- Coppock, Lambert W., assignor of one-half to A. L. Kroesen, Cleveland, Ohio. Motor vehicle. 1,731,765; Oct. 15.
- Coppus, Frans H. C., et al., trustees. (See Coppus, Frans H. C., assignor.)
- Coppus, Frans H. C., assignor to A. M. C. Wechsberg, V. L. Wood, and F. H. C. Coppus, trustees, Worcester, Mass. Locomotive drafting plant. 1,734,078; Nov. 5.
- Coquelin, Charles. (See von Zsolnay, O., Coquelin, and Schulz.)
- Coquille, Emile H., Paris, France. Rear-box device for motor vehicles. 1,727,273; Sept. 3.
- Coquille, Emile H., Paris, France. Rear lantern for motor vehicles. 1,732,673; Oct. 22.
- Coradi, Oswald, Zurich, Switzerland. Thread-counting microscope. 1,726,651; Sept. 3.
- Coram, John C., Lowell, assignor to Bay State Rug Company, Waltham, Mass. Apparatus for making a textile strand. 1,738,098; Dec. 3.
- Corbett, Alfred H., and H. Pounds, Winter Garden, Fla. Harrow. 1,719,170; July 2.
- Corbett, Carl C., Davison, Mich., assignor to The A. H. Martine Company, New York, N. Y. Savings bank. 1,733,052; Oct. 22.
- Corbett, Edwin P. (See Bell, William D., assignor.)
- Corbett, Herbert A., assignor to Columbian Rope Company, Auburn, N. Y. Plaiting, braiding, and twisting machine. 1,702,814; Feb. 19.
- Corbett, William H. (See Duernberger, Herman J., assignor.)
- Corbett, William J., Alhambra, Calif. Reversible electrical motor. 1,706,483; Mar. 26.
- Corbin, Elbert A., jr. (See Gibson, H. C., and Corbin.)
- Corbin, Emmett T. (See King, W. P., and Corbin.)
- Corbin, Ernest, Sentinel, Okla. Condenser for cotton gins. 1,729,282; Sept. 24.
- Corbitt, Samuel T., Enid, Okla. Marker. 1,706,957; Mar. 26.
- Corbould, William H., Sydney, New South Wales, Australia. Hydrometallurgically treating material containing lead and zinc values. 1,706,143; Mar. 19.
- Corby, Robert L., New York, N. Y. Bread-testing apparatus. 1,725,781; Aug. 27.
- Corby, Robert L., New York, N. Y. Bread-testing method. 1,725,850; Aug. 27.
- Corby, Robert L., assignor to The Fleischmann Company, New York, N. Y. Baking method and apparatus. 1,705,636; Mar. 19.
- Corby, Sydney F., and J. Wasp, East Molesey, England, assignors to said Corby. Construction of cubicles, bathing boxes, and the like. 1,739,664; Dec. 17.
- Corby, Sydney F., and J. Wasp, East Molesey, England, assignors to said Corby. Partition wall. 1,739,665; Dec. 17.
- Corby, Sydney F., and J. Wasp, East Molesey, England, assignors to said Corby. Partition wall. 1,739,666; Dec. 17.
- Corcoran, Cornelius B., deceased, New York; M. J. Corcoran, administrator, and A. G. F. Kurowski, Brooklyn, assignors to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,704,699; Mar. 12.
- Corcoran, Edward J., Plains, Pa. Coal-separating apparatus. 1,737,410; Nov. 26.
- Corcoran, Michael J., administrator. (See Corcoran, C. B., and Kurowski.)
- Corcoran, Theodore P., Fullerton, Calif. Ordering chart. 1,708,567; Apr. 9.
- Corcoran, Thos. J., Lamp Co., The. (See Corcoran, T. J., and Matteoli, assignors.)
- Corcoran, Thos. J., Lamp Co., The. (See Kuen, Eugene A., assignor.)
- Corcoran, Thos. J., Lamp Co., The. (See Mappes, William L., assignor.)
- Corcoran, Thos. J., Lamp Co., The. (See Ryder, Charles D., assignor.)
- Corcoran, Thomas J., and W. M. Matteoli, assignors to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Focusing device for automobile lamps. 1,707,254; Apr. 2.
- Cord Tire Machine Company, The. (See Morris, Howard I., assignor.)
- Cordes, Harry H. A., Fayetteville, Tex. Combination tool. 1,720,720; July 16.
- Cordier, Gustave, Calais, France. Machine for cutting float thread. 1,713,375; May 14.
- Cordill, Rex, Los Angeles, and H. C. Yunker, Oakland, Calif.; said Yunker assignor to said Cordill. Animated signboard. 1,740,499; Dec. 24.
- Cordley, Christopher M., New Canaan, Conn. Casing for a liquid-dispensing apparatus. Des. 79,351; Sept. 10.
- Cordley, Henry G., New York, N. Y. Apparatus for dispensing liquids. 1,706,213; Mar. 19.
- Cordley, Henry G., New York, N. Y. Spigot. 1,715,353; June 4.
- Cordley, Henry G., New York, N. Y., and G. R. Long, Waterbury, Conn.; said Cordley assignor to Cordley & Hayes, New York, N. Y. Aerator for liquid-dispensing devices. 1,719,260; July 2.
- Cordley & Hayes. (See Cordley, H. G., assignor, and Long.)
- Cordray, Lee R., San Diego, Calif. Reversible tool-chuck-supporting means. 1,697,414; Jan. 1.
- Cordray, Richard E., Schenectady, N. Y., assignor to General Electric Company. Protective arrangement. 1,718,531; June 25.
- Cords Limited. (See Chadwick, Fletcher, assignor.)
- Corell, Martin. (See Kränzlein, G., and Corell.)
- Corey, Harry R., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. 1,705,466; Mar. 19.
- Corey, Horace H. (See Hormel, J. C., Corey, and Cashman.)
- Corey, James W., Cleveland Heights, assignor to The Reliance Electric and Engineering Company, Cleveland, Ohio. Winder drive. 1,720,118; July 9.
- Coria, Rafael, Eagle Pass, Tex. Article of manufacture. 1,718,333; June 25.
- Cork, Tudor C., assignor to American Car and Foundry Company, New York, N. Y. Car construction. 1,699,521; Jan. 22.
- Corkran, Levin O., Rhodesdale, Md. Cleaning device. 1,707,846; Apr. 2.
- Corleo, Pietro S., Palermo, Italy. Adjustable obstetric forceps. 1,707,298; Apr. 2.
- Corlett, Robert S., Evanston, Ill. Folding-table construction. 1,727,005; Sept. 3.
- Corlett, Webster D., Oak Park, Ill., assignor to Standard Screw Company, Jersey City, N. J. Ball joint. 1,740,971; Dec. 24.
- Corley, John T., Providence, R. I. Turret standpipe for fire hose. 1,738,421; Dec. 3.
- Corliss, Cyrus, Boston, Mass. Supporting device for drawings and the like. 1,700,157; Jan. 29.
- Cormican, Robert M., Casey, Ill., assignor to Kari-Keen Manufacturing Company, Inc., Sioux City, Iowa. Combination trunk and luggage carrier. Re17,529; Dec. 17.
- Cormier, Alexander J., Tylertown, Miss. Combined well cover and trough. 1,721,805; July 23.
- Cormier, Alfred J. (See Warburton, W. A., and Cormier.)
- Cormier, Gustave J., Seminole, Okla. Offset overshot tool. 1,738,819; Dec. 10.
- Cormier, Leo H., Detroit, Mich. Micrometer sine protractor. 1,740,072; Dec. 17.
- Cormier, Philippe D., Fairhaven, Mass. Fireplace. 1,713,521; May 21.
- Cornell, Frederick J., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerator. 1,734,366; Nov. 5.
- Cornelius, Cornelius E., Stockholm, Sweden. Electric furnace. 1,741,977; Dec. 31.
- Cornelius, Jesse W., Birmingham, Ala. Air-heating fireplace. 1,697,635; Jan. 1.
- Cornelius, Jesse W., Birmingham, Ala. Air-heating system for fireplaces. 1,722,560; July 30.
- Cornelius, Louis A., assignor to Wolverine Brass Works, Grand Rapids, Mich. Spray nozzle. 1,721,945; July 23.
- Cornelius, Walter G., Piru, Calif. Tree paint. 1,730,724; Oct. 8.
- Cornelius, Wesley F., Whittier, Calif. Belt clamp and tightener. 1,732,789; Oct. 22.
- Cornell, Charles J., Brooklyn, assignor to L. Sborigli, doing business as G. Rae & Co., New York, N. Y. Sign-casing construction. 1,718,114; June 18.
- Cornell, Chauncey A., Detroit, Mich. Turret machine for metal working. 1,742,135; Dec. 31.
- Cornell, Edward S., jr., Watertown, assignor to Chase Companies, Inc., Waterbury, Conn. Traffic marker for pavements. 1,702,496; Feb. 19.
- Cornell, John E., Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Apparatus for sewing bags. 1,731,295; Oct. 15.
- Cornell, John E., Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Bag-binding method and apparatus. 1,734,287; Nov. 5.



- Cornell, John E., and A. J. Verwys, Chicago, Ill., assignors, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Method and apparatus for filling bags. 1,728,394; Sept. 17.
- Cornell, John M., Sea Bright, N. J. Automatic fire shutter. 1,708,377; Apr. 9.
- Cornet y Oliveras, Juan, Barcelona, Spain. Pump. 1,741,070; Dec. 24.
- Corning Glass Works. (See Bailey, James, assignor.)
- Corning Glass Works. (See Fulcher, Gordon S., assignor.)
- Corning Glass Works. (See Lebbly, States L., assignor.)
- Corning Glass Works. (See Littleton, Jesse T., jr., assignor.)
- Corning Glass Works. (See Littleton, Jesse T., and Smith, assignors.)
- Corning Glass Works. (See Marshall, Albert E., assignor.)
- Corning Glass Works. (See Pascucci, Emilio, assignor.)
- Corning Glass Works. (See Rising, Walter H., assignor.)
- Corning Glass Works. (See Searle, Russell M., assignor.)
- Corning Glass Works. (See Smith, Rowland D., assignor.)
- Corning Glass Works. (See Taylor, William C., assignor.)
- Corning Glass Works. (See Wellech, Edmund, assignor.)
- Coruner, Asa F., and G. W. K. King, Coffeyville, Kans., assignors of one-half to R. T. Osborn, New York, N. Y. Furnace. 1,715,160; May 28.
- Corno Mills Company, The. (See Loufek, Charles W., assignor.)
- Cornstalk Products Company. (See Gardner, Frank K., assignor.)
- Cornwell, Lionel B., Pottsville, Pa., assignor to J. W. & W. L. Woolf, New York, N. Y. Holder for closures, such as lids, sashes, doors, and the like. 1,707,511; Apr. 2.
- Cornwell, Virgil O., and F. J. Blackburn, assignors to The Federal Glass Company, Columbus, Ohio. Producing cracked glassware. 1,739,825; Dec. 17.
- Corona, Baldomero, Santiago de Cuba, Cuba. Tire for vehicles. 1,699,225; Jan. 15.
- Corona Pen Company. (See Gilman, George W., assignor.)
- Corotneff, Nicholas N., New York, N. Y. Bottle or similar container. Des. 77,742; Feb. 19.
- Corrall, Herbert, Hclensburgh, and J. Heggie, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Thread-drawing machine. 1,704,881; Mar. 12.
- Correcta Light Limited. (See Barnfather, Edward, assignor.)
- Correia, Manuel, New Bedford, Mass. Curtain holder. 1,722,899; July 30.
- Correll, Adolf, assignor to Z. M. Stinnes, Essen-Ruhr, Germany. Separation of low-temperature tar into phenols and hydrocarbons. 1,709,309; Apr. 16.
- Correll, Orville C., Brooklyn, N. Y. Stamping device. 1,740,285; Dec. 17.
- Corrigan, Charles H., Phoenix, Ariz. Combined cigar and cigarette extinguisher. 1,738,693; Dec. 10.
- Corse, Gaston, assignor to L. Chambon, Paris, France. Bag-making machine. 1,703,723; Feb. 26.
- Corse, Gaston, assignor to Etablissements L. Chambon, Paris, France. Printing machine particularly for tickets, tickets of admission, receipts, and the like. 1,738,422; Dec. 3.
- Corser, John W., Los Angeles, Calif. Carburetor. 1,722,037; July 23.
- Corso, Antonio, New York, N. Y. Automatic station indicator. 1,716,575; June 11.
- Corson, Michael G. (See Korsunsky, Michael G.)
- Corson, Michael G., Jackson Heights, N. Y., assignor to Electro Metallurgical Company. Copper cobalt alloy. 1,723,922; Aug. 6.
- Corson, Michael G., Jackson Heights, N. Y., assignor to Electro Metallurgical Company. Alloy and method of working and heat treating the same. 1,729,208; Sept. 24.
- Corson, Michael G., Jackson Heights, N. Y., assignor to Electro Metallurgical Company. Alloy and process of heat treatment. 1,732,327; Oct. 22.
- Cort, Benjamin H., assignor to Stacy Adams Company, Brockton, Mass. Shoe. 1,697,589; Jan. 1.
- Corthell, Robert N., Auburn, Me., assignor to Summit Thread Company, East Hampton, Conn. Bobbin-controlling adjunct for sewing-machine shuttles. 1,698,392; Jan. 8.
- Corti, Arturo, Kansas City, Mo. Damper for wind musical instruments. 1,733,366; Oct. 29.
- Corticelli Silk Company, The. (See Grulich, Dezsö R., assignor.)
- Corwin, Benjamin F., Brooklyn, N. Y. Pressure gauge. 1,697,717; Jan. 1.
- Corwin, Charles P., Brownwood, Tex. Tailpiece mounting for self-playing violins. 1,723,767; Aug. 6.
- Corwin, Charles P., Brownwood, Tex. String-tensioning device for self-playing stringed instruments. 1,736,580; Nov. 19.
- Corwin, Charles P., Brownwood, Tex. Self-playing violin. 1,742,057; Dec. 31.
- Corwin, Harry L., Los Angeles, Calif. Drafting instrument and attachment. 1,734,613; Nov. 5.
- Cory, Chas., & Son, Incorporated. (See Wood, Frank W., assignor.)
- Cory, Russell G., Montclair, N. J. Building structure. 1,730,645; Oct. 8.
- Cory, Thomas L. (See Sills, Orville, assignor.)
- Coryell, Charles N., Mamaroneck, N. Y. Holder for stick material. 1,698,750; Jan. 15.
- Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,700,883; Feb. 5.
- Coryell, Charles N., New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,713,264; May 14.
- Coryell, Charles N., Mamaroneck, N. Y. Holder for stick material. 1,734,116; Nov. 5.
- Coryell, Charles N., Mamaroneck, N. Y. Holder for stick material. 1,734,117; Nov. 5.
- Coryell, William C., Youngstown, assignor to Central Alloy Steel Corporation, Massillon, Ohio. Rolling mill. 1,737,785; Dec. 3.
- Cosby, Eric L. H., Teddington, England. Toilet comb. 1,702,197; Feb. 12.
- Cosby-Wirth Manifold Book Company. (See Mooney, Edward L., assignor.)
- Coseo, Fred C., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Brake mechanism. 1,726,015; Aug. 27.
- Cosgro, Daniel J., et al. executors. (See Wallace Thomas.)
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machine Corporation, Paterson, N. J. Coating system. 1,705,752; Mar. 19.
- Cosgrove, John W., Medford, assignor to United Shoe Machinery Corporation, Boston, Mass. Treating flexible sheet material. 1,712,604; May 14.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-randementing machine. 1,732,501; Oct. 22.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Conveying system. 1,737,829; Dec. 3.
- Coshocton Glove Company, The. (See McKinley, Melvin, assignor.)
- Cosin, Joseph J., Newark, N. J. Display rack. Des. 78,193; Apr. 9.
- Coslow, Carl W. (See John, K. B., Coslow, and Schwindt.)
- Cosmopolitan Warehouses, Inc. (See Lancet, Samuel, assignor.)
- Coss, Dorris, and G. Chambers, Columbus, Ohio. Pipette. 1,736,392; Nov. 19.
- Costaganna, Celeste, assignor of one-half to R. Trevisan, San Francisco, Calif. Automobile bumper. 1,740,576; Dec. 24.
- Costello, John J. (See Bohner, John S., assignor.)
- Costello, William F., assignor to The New Britain Machine Company, New Britain, Conn. Stool or similar article. Des. 78,562; May 21.
- Costello, William, jr., Philadelphia, Pa. Vacuum rotary cake machine. 1,724,827; Aug. 13.
- Costellow, Earle H., assignor to Phillips-Baker Rubber Company, Providence, R. I. Footwear. 1,715,120; May 28.
- Coster, Frank D., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Bottle or similar container. Des. 78,448; May 7.
- Coster, Frank D., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Bottle or similar container. Des. 78,729; June 18.
- Costigan, Martha M., Clarendon Hills, Ill. Nursery chamber vessel. 1,737,572; Dec. 3.
- Cot, Louis, Hoboken, N. J. Hook. 1,716,918; June 11.
- Cotabish, Nelson C., Lakewood, Ohio. Water-meter disk. 1,707,346; Apr. 2.
- Cote, Francois, Dracut, Mass. Filling-cutting device for shifting-shuttle-box looms. 1,736,488; Nov. 19.
- Cothay, Frank H., assignor of one-half to Ropp Tin Limited, London, England. Bucket and bucket elevator and dredge. 1,710,473; Apr. 23.
- Cothran, Charles H., Fort Cobb, Okla. Portable vise. 1,702,815; Feb. 19.
- Cotic, Albert, Herbrechtingen, Germany. Spindle bolster for roving machines. 1,711,518; May 7.
- Cotner, Alfred F., Silver City, N. C. Lime distributor. 1,733,722; Oct. 29.
- Cotta Transmission Corporation. (See Tritz, John H., assignor.)
- Cotter, Luke. (See Murphy, D. F., and Cotter.)
- Cotter, Thomas, and T. F. Griggs, Evansville, Ind. Battery terminal. 1,735,038; Nov. 12.
- Cottman, Catherine M., Roseburg, Ore. Apparatus for lifting and moving invalids. 1,738,753; Dec. 10.
- Cotton, Alfred, assignor to Heine Boiler Company, St. Louis, Mo. Internally supporting a tube that is being deformed. 1,713,818; May 21.
- Cotton, Alfred, deceased, St. Louis, Mo.; L. P. Cotton, executrix de bonis non. Burning solid fuel. 1,713,817; May 21.
- Cotton Buckle & Tag Co. (See McKinney, William H., Jr., assignor.)
- Cotton, Howard W., Brooklyn, assignor to Stark Brothers Ribbon Corporation, New York, N. Y. Apparatus and method for making rosette blanks. 1,728,724; Sept. 17.
- Cotton, Laura P., executrix de bonis non. (See Cotton, Alfred.)
- Cotton, Lee J., assignor to National Safety Switch Lever Lock Company, Chicago, Ill. Switch-lever lock. 1,731,766; Oct. 15.
- Cotton, Roy, Louisville, Ky. Window frame. 1,721,770; July 23.
- Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,702,040; Feb. 12.
- Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,702,932; Feb. 19.



- Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,705,635; Mar. 19.
- Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,733,527; Oct. 29.
- Cottrell C. B., & Sons Company. (See Barber, Howard M., assignor.)
- Coty, Alfred C. and T. E., Carthage, N. Y. Paper-bag machine. 1,742,174; Dec. 31.
- Coty, Thomas E. (See Coty, Alfred C. and T. E.)
- Couch, Charles A., assignor to Ware Shoals Manufacturing Company, Ware Shoals, S. C. Carton expander. 1,722,276; July 30.
- Couch, Charles A., and S. P. Hatcher, assignors to Ware Shoals Manufacturing Company, Ware Shoals, S. C. Automatic stop for sewing machines. 1,722,277; July 30.
- Couch, Forrest J., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Automatic door-spotting device for washing machines. 1,718,191; June 18.
- Couch, Glenn F., Rochester, N. Y. Side frame and structural member. 1,703,062; Feb. 19.
- Couch, Glenn F., Rochester, assignor to The Symington Company, New York, N. Y. Articulated journal stop. 1,712,871; May 14.
- Couch, Glenn F., Rochester, assignor to The Symington Company, New York, N. Y. Coupler with buffer. 1,729,476; Sept. 24.
- Coufal, John, Bomarton, Tex. Lock for automobile steering wheels. 1,713,423; May 14.
- Coughlin, John J., Dayton, Ohio, assignor to Pollmer, Clogg & Co., New York, N. Y. Spring opener for pilot parachutes. 1,705,854; Mar. 19.
- Coughlin, John M., Kansas City, Mo., assignor to Scale Solvent & Products Company. Scale solvent and sealing composition. 1,715,337; May 28.
- Coull, John. (See Thorpe, George G., assignor.)
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,622; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,623; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,624; Oct. 22.
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- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,627; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,628; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,629; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,630; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,631; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,632; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,633; Oct. 22.
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- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,635; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,636; Oct. 22.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,700; Oct. 29.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 79,701; Oct. 29.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 80,109; Dec. 17.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 80,110; Dec. 17.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 80,111; Dec. 17.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 80,112; Dec. 17.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 80,113; Dec. 17.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 80,114; Dec. 17.
- Coulombe, Joseph C., Kokomo, Ind. Automobile radiator shell. Des. 80,115; Dec. 17.
- Coulombe, Joseph C., Kokomo, Ind. Vacuum fuel-feed system. 1,713,029; May 14.
- Coulombe, Joseph C., Kokomo, Ind. Vacuum tank for fuel feeding. 1,713,265; May 14.
- Coulombe, Joseph C., Kokomo, Ind. Vacuum tank. 1,715,591; June 4.
- Coulombe, Joseph C., Kokomo, Ind. Differential drive for motor vehicles. 1,726,288; Aug. 27.
- Coulson, Edwin, Chiswick, London, England. Meat-clamping means for slicing machines. 1,742,059; Dec. 31.
- Coulson, Edwin, Chiswick, London, England. Feed mechanism for use with slicing machines. 1,742,060; Dec. 31.
- Coultas, Wilbur J., assignor to Deere & Company, Moline, Ill. Tongue truck. 1,731,453; Oct. 15.
- Coultas, Wilbur J., assignor to Deere & Company, Moline, Ill. Making traction lugs. 1,741,450; Dec. 31.
- Coultas, Wilbur J., and E. Rusco, assignors to Deere & Company, Moline, Ill. Pole or tongue truck. 1,731,707; Oct. 15.
- Coulter, Guy H., Highland Park, Mich., assignor to Monogram Lens Corporation. Bulb adjuster. 1,729,610; Oct. 1.
- Coulter, Guy H., Highland Park, Mich., assignor to Monogram Lens Corporation, Paterson, N. J. Lamp-adjusting apparatus. 1,735,451; Nov. 12.
- Coulter, John M., assignor to McDougall Company, Frankfort, Ind. Sink and porcelain element for kitchen cabinets and kitchen units. 1,727,159; Sept. 3.
- Coulter, William J., Toronto, Ontario, Canada. Clothes drier. 1,741,289; Dec. 31.
- Cound, Samuel R. (See Davies, H. L., and Cound.)
- Coune, Felix, Chicago, Ill. Hair tester. 1,708,359; Apr. 9.
- Countryman, Guy A. (See Burkholder, J. H., and Countryman.)
- Countryman, Guy A., Ashland, Ohio, assignor, by mesne assignments, to Elite Manufacturing Company. Hydraulic jack. 1,715,901; June 4.
- Countryman, Guy A., Ashland, Ohio, assignor, by mesne assignments, to Elite Manufacturing Company. Foldable handle. 1,715,902; June 4.
- Countryman, Preston E., assignor to Elite Manufacturing Company, Ashland, Ohio. Hoisting device. 1,704,882; Mar. 12.
- Coupland, Richard C., Dayton, Ohio. Pedestal mount for aircraft guns. 1,739,125; Dec. 10.
- Coups, Charles A., assignor to Eastwood Wire Manufacturing Company, Belleville, N. J. Fabric. 1,733,116; Oct. 29.
- Courcier, Cicero W., Rush Springs, Okla. Automatic lubricator. 1,731,159; Oct. 8.
- Courmettes, Henry A., Brooklyn, N. Y. Bifocal lens and making the same. 1,729,066; Sept. 24.
- Courraut, Gilbert, Paris, France, assignor to Bourjois, Inc., New York, N. Y. Lid for a vanity case or a similar article. Des. 77,743; Feb. 19.
- Coursen, Walter L., New Rochelle, N. Y., assignor to Tubize Artificial Silk Company of America. Multicylinder pump. 1,697,852; Jan. 8.
- Coursen, Walter L., New Rochelle, N. Y., assignor to Tubize Artificial Silk Company of America. Multicylinder pump. 1,697,853; Jan. 8.
- Coursen, Walter L., New Rochelle, N. Y., assignor to Tubize Silk Company of America. Multicylinder pump. 1,697,854; Jan. 8.
- Courser, Fred M., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,702,379; Feb. 19.
- Coursey, Frederick. (See Scarborough, J. A., Caldwell, and Coursey.)
- Courtadon, Antoine E., Akron, Ohio. Grip road tire protector. 1,696,903; Jan. 1.
- Courtaulds Limited. (See Hazeley, E., and Morton, assignors.)
- Courtaulds Limited. (See Lunge, Ernest, assignor.)
- Courtaulds Limited. (See Topham, Charles F., assignor.)
- Courtaulds Limited. (See Topham, C. F., Hazeley, and Morton, assignors.)
- Courtenay, Frederic D., East Orange, N. J., assignor to Embosograf Corporation of America, New York, N. Y. Advertising apparatus. 1,729,417; Sept. 24.
- Courtenay, William A., jr., Chester, assignor to Sun Oil Company, Philadelphia, Pa. Gasoline-dispensing casing. Des. 77,744; Feb. 19.
- Courtin, Eberhard, Wilmersdorf-Berlin, Germany, and J. Bayer, Pfaffstatten, Austria, assignors to General Electric Company. Protective arrangement. 1,731,971; Oct. 15.
- Jourtin, René, Marguy lez Compiègne, France. Protecting fluid containers. 1,702,631; Feb. 19.
- Jourtioux, Jean P., Paris, France. Measuring and delivering apparatus for liquids. 1,699,562; Jan. 22.
- Courtney, Delbert E., Golden, Colo. Sound-operated coin detector and eliminator. 1,741,978; Dec. 31.
- Courtot, Louis, Paris, France, assignor to American Radiator Company, New York, N. Y. Boiler. 1,701,871; Feb. 12.
- Coury, David A. (See Audibert, Stephen R., assignor.)
- Cousin, Arthur J. F. J., Jemeppe sur Meuse, assignor to the Société Anonyme John Cockerill, Seraing, Belgium. Reduction of metallic oxides. 1,714,767; May 28.
- Cousino, Elmer L., Detroit, Mich. Shirt-collar backing. 1,705,719; Mar. 19.
- Cousino, Walter P., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Valve. 1,713,115; May 14.
- Cousins, Cordy F., assignor to The Phoenix Caster Company, Hamilton, Ohio. Caster. 1,711,723; May 7.
- Coutant, Jay G., assignor to Furnace Engineering Company, Inc., New York, N. Y. Pulverized-fuel combustion. 1,703,814; Feb. 26.
- Coutts, George W., Waukesha, Wis. Self-adjusting bearing screw. 1,722,561; July 30.
- Coutu, Arthur G., Fall River, Mass. Toaster or the like. 1,697,884; Jan. 1.
- Couturier, Ernst A., Mount Vernon, N. Y. Valved brass instrument. 1,729,568; Sept. 24.
- Covatch, Lott F., Rossiter, Pa. Aeroplane. 1,738,423; Dec. 3.
- Cove, William N., assignor to The H. A. Matthews Mfg. Co., Seymour, Conn. Dispensing device. 1,703,710; Feb. 26.
- Coven, John. (See Perleth, J. L., and Coven.)
- Cover, Monroe A., Okmulgee, Okla. Vehicle steering mechanism. 1,704,312; Mar. 5.



- Coverston, Eugene C., Waukegan, Ill. Grain-car door. 1,732,966; Oct. 22.
- Covert, Harry W., Jamestown, N. Y. Washing machine. 1,718,115; June 18.
- Covert Manufacturing Company. (See Baxter, John B., assignor.)
- Covey, Charles A., San Antonio, Tex., assignor of one-fourth to C. V. Birkhead. Multiple-block mold. 1,697,347; Jan. 1.
- Covey, John E., assignor to Swift & Company, Chicago, Ill. Beef-chilling rack and method. 1,724,006; Aug. 13.
- Covington Machine Company, Inc. (See King, Floyd W., assignor.)
- Covington, Vann J., Cheraw, S. C. Coal bin. 1,719,393; July 2.
- Cowan, Charles H., jr., Stonington, Conn. Hat-holding device. 1,712,421; May 7.
- Cowan, Charles M., and D. S. Minniear, assignors to The Miami Manufacturing Company, Limited, Sidney, Ohio. Bottle holder. 1,712,468; May 7.
- Cowan, Edgar H., Marion, Ohio. Wear-compensating piston. 1,742,136; Dec. 31.
- Cowan, Fletcher, Summit, N. J., assignor to Ben Day, Inc. Film-frame apparatus. 1,733,581; Oct. 29.
- Cowan, Henry W., Toronto, Ontario, Canada. Method and apparatus for removing vapors. 1,738,641; Dec. 10.
- Cowan, James D., Summit, assignor to The National Lock Washer Company, Newark, N. J. Compression-spring washer. 1,709,933; Apr. 23.
- Cowan, John, Waverly, Mass. Calk. 1,730,996; Oct. 8.
- Cowan, John H., Ottawa, Ontario, Canada. Fishing bait. 1,740,335; Dec. 17.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 79,182; Aug. 13.
- Cowan, R. Guy, Lakewood, Ohio. Flower holder. Des. 79,183; Aug. 13.
- Cowan, R. Guy, Lakewood, Ohio. Dish. Des. 79,352; Sept. 10.
- Cowden, Charles A., et al. (See Shook, John A., assignor.)
- Cowdery, Robert H., Geneva, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Bow for archery. Des. 77,892; Mar. 5.
- Cowdrick, Frank B., Philadelphia, Pa. Furnace-door attachment. 1,736,521; Nov. 19.
- Cowell, Ensign C., Brookdale, Calif. Advertising sign. 1,737,076; Nov. 26.
- Cowen, Julius, San Antonio, Tex. Battery-charging device. 1,722,900; July 30.
- Cowgill, Frank M. (See Furry, E. B., and Cowgill.)
- Cowgill, Frank M., Columbus, Ohio. Auxiliary brake-rigging support. 1,703,478; Feb. 26.
- Cowgill, Orph W., assignor to St. Louis Label Works, St. Louis, Mo. Slide-box-shell machine. 1,707,712; Apr. 2.
- Cowle, Paul W., assignor to Chicago Pump Company, Chicago, Ill. Pump. 1,725,568; Aug. 20.
- Cowles, C., & Company. (See Hart, F. H., and Carmichael, assignors.)
- Cowles, George P., Brooklyn, N. Y. Electrical actuating means for clocks and other instruments. 1,734,941; Nov. 5.
- Cowles, Henry, and J. K. Norris, Utica, N. Y., assignors, by mesne assignments, to National Radiator Corporation, Dover, Del. Heating apparatus. 1,726,527; Sept. 3.
- Cowles, Henry, and J. K. Norris, Utica, N. Y., assignors, by mesne assignments, to National Radiator Corporation, Dover, Del. Sectional furnace. 1,740,393; Dec. 17.
- Cowles, Irving, assignor to Union Bank of Chicago, Chicago, Ill. Automatic air-supply valve for ice pans. 1,720,034; July 9.
- Cowley, Clyde E. (See Morris, R. J., and Cowley.)
- Cowley, James T., assignor to The Lamson Company, Syracuse, N. Y. Conveyor system. 1,712,872; May 14.
- Cowley, James T., assignor to The Lamson Company, Syracuse, N. Y. Desk station for pneumatic-dispatch systems. 1,736,995; Nov. 26.
- Cowley, James T., assignor to The Lamson Company, Syracuse, N. Y. Power-controlling apparatus. 1,740,500; Dec. 24.
- Cox, A. M., et al. (See Wilson, James R., assignor.)
- Cox, Abram, Stove Company. (See Mott, A. C., Jr., and Wheawill, assignors.)
- Cox, Alpheus M., Haviland, Kans. Balanced pump. 1,703,336; Feb. 26.
- Cox, Bradford, Plainview, Tex. Agricultural implement. 1,698,188; Jan. 8.
- Cox, Cary S., assignor of one-third to J. M. Cox and one-third to F. Cox, Fresno, Calif. Cotton gin. 1,717,356; June 18.
- Cox, Cary S., assignor of one-third to J. M. Cox and one-third to F. C. Whitt, Fresno, Calif. Cotton gin. 1,717,436; June 18.
- Cox, Cary S., assignor of one-half to H. E. Walrond, Fresno, Calif. Cotton cleaner. 1,729,503; Sept. 24.
- Cox, Charles W. (See Gardner, P. F., Runeberg, and Cox.)
- Cox, Cyril C., Garfield, Utah. Door-operating apparatus. 1,700,433; Jan. 29.
- Cox, Edwin R., Venice, and H. S. Cole, jr., assignors to California Petroleum Corporation, Los Angeles, Calif. Apparatus for the separation of hydrocarbons. 1,738,870; Dec. 10.
- Cox, Frances, et al. (See Cox, Cary S., assignor.)
- Cox, Frederick J., London, England. Heating appliance. 1,707,976; Apr. 9.
- Cox, George E., Niagara Falls, assignor to American Cyanamid Company, New York, N. Y. Cooling apparatus. 1,733,582; Oct. 29.
- Cox, George W., jr., assignor to National Assorting Company, Washington, D. C. Sorting machine. 1,733,217; Oct. 29.
- Cox, Harold N., Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company, Pittsburgh, Pa. Lens system for color photography. 1,699,226; Jan. 15.
- Cox, Harold N., Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company. Optical system. 1,700,252; Jan. 29.
- Cox, Harold N., Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company, Pittsburgh, Pa. Lens system. 1,732,432; Oct. 22.
- Cox, Harold N., Glen Ridge, N. J., assignor to Cox Multi-Color Photo Company. Optical-adjusting device. 1,735,108; Nov. 12.
- Cox, James F., A. A. Thornton, D. W. Carroll, and W. Stoveken, Jersey City, N. J. Roll-up window screen. 1,707,600; Apr. 2.
- Cox, Jessie M., et al. (See Cox, Cary S., assignor.)
- Cox, John, et al. (See Goeckler, Frank E., assignor.)
- Cox, John E. P., Rochester, N. Y. Finger board for stringed musical instrument. 1,727,230; Sept. 3.
- Cox, John L., Philadelphia, Pa. Steel alloy. 1,711,519; May 7.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Fuel-feeder nozzle. 1,697,048; Jan. 1.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Fuel-feeding device. 1,697,049; Jan. 1.
- Cox, John W., Erie, Pa., assignor to The Gilchrist Company, Newark, N. J. Ice-cream disher. 1,698,716; Jan. 15.
- Cox, John W., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,700,195; Jan. 29.
- Cox, John W., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,720,072; July 9.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Furnace. 1,724,455; Aug. 13.
- Cox, John W., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,726,808; Sept. 3.
- Cox, John W., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,726,809; Sept. 3.
- Cox, John W., Erie, Pa., assignor to The Gilchrist Company, Newark, N. J. Ice-cream disher. 1,732,328; Oct. 22.
- Cox, John W., Erie, Pa., assignor to The Gilchrist Company, Newark, N. J. Ice-cream disher. 1,732,502; Oct. 22.
- Cox, John W., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,740,767; Dec. 24.
- Cox, Joseph E. (See Nash, F. L., and Cox.)
- Cox, Luther S., Newhall, and H. A. Delaney, Fullerton, Calif. Cathed. 1,727,750; Sept. 10.
- Cox Multi-Color Photo Company. (See Cox, Harold N., assignor.)
- Cox, Nostrand & Gunnison, Incorporated. (See Gunnison, Foster, assignor.)
- Cox, Paul F., assignor to The Goss Printing Press Company, Chicago, Ill. Multicolor flat-bed web-printing press. 1,735,730; Nov. 12.
- Cox, Thomas, Oakland, and M. L. Requa, Piedmont, Calif., and A. S. Knowles, New York, N. Y.; said Cox and said Knowles assignors to said Requa. Blending oils. 1,735,421; Nov. 12.
- Cox, Wilhelmina. (See Masters, Marion G., assignor.)
- Cox, William H., Toronto, Ontario, Canada. Static absorber. 1,712,294; May 7.
- Coxe, Helen B., executrix. (See Coxe, W. G., and Lagergren.)
- Coxe, William G., deceased, Philadelphia, Pa., and G. M. Lagergren, Wilmington, Del.; H. B. Coxe, executrix. Oil-injection-control device. 1,704,079; Mar. 5.
- Coxey, Horace L., Massillon, Ohio. Hot top for ingot molds. 1,741,615; Dec. 31.
- Coxon, George H. (See Beale, E. S. L., Coxon, and Duns-tan.)
- Coykendall, Thomas C., Kingston, N. Y. System of marine propulsion. 1,701,403; Feb. 5.
- Coyle, Joseph A., and E. T. Phoenix, assignors to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Pile fabric. 1,709,521; Apr. 16.
- Coyle, Paul L. (See Withrow, W. P., and Coyle.)
- Coyne, Guy R., Milwaukee, Wis., assignor to United Shoe Machinery Corporation, Paterson, N. J. Staple-inserting machine. 1,714,709; May 28.
- Coyne, Robidoué & Co. (See Dansereau, George H., assignor.)
- Cozens, George A., assignor to The Decca Gramophone Company Limited, London, England. Box case, and the like having hinged lids. 1,704,692; Mar. 12.
- Cozzens, Charles O., assignor to American Optical Company, Southbridge, Mass. End piece for an ophthalmic mounting. Des. 77,936; Mar. 12.
- Cozzens, Charles O., assignor to American Optical Company, Southbridge, Mass. Bridge for an ophthalmic mounting. Des. 78,379; Apr. 30.
- Crabb, James, sr., Joliet, Ill. Vibrating screen. 1,724,007; Aug. 13.
- Crabbe, Elmer W. (See Hatfield, M. J., and Crabbe.)
- Crabbe, George N. (See Lautrup, G. W., and Crabbe.)



- Crabbe, Lindsay T., assignor to Phoenix-Hermetic Company, Chicago, Ill. Dispensing closure for jars. 1,733,053; Oct. 22.
- Crabbe, Lindsay T., assignor to Phoenix-Hermetic Company, Chicago, Ill. Adjustable wrench. 1,736,696; Nov. 19.
- Crabbs, Herbert J. (See Sandin, J., and Crabbs.)
- Crabbs, Herbert J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mounting for electrical devices. 1,700,882; Feb. 5.
- Crabbs, Herbert J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rear-of-panel knife-blade switch. 1,702,463; Feb. 19.
- Crabill, Noah F., Brunswick, Md. Railway tie. 1,701,442; Feb. 5.
- Cracknell, Richard J., London, England, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,739,544; Dec. 17.
- Craddock, Frederick L., New York, N. Y. Mixing device. 1,703,099; Feb. 26.
- Craddock, Frederick L., New York, N. Y. Method for mixing. 1,719,800; July 2.
- Craddock, Robert V., Cambridge, Idaho. Terminal puller. 1,712,982; May 14.
- Craddock, Warren N., Ventura, Calif. Automatic flow bean. 1,699,227; Jan. 15.
- Craday, Allen E., assignor to Logan Co., Inc., Louisville, Ky. Conveyer. 1,741,616; Dec. 31.
- Craft, Earl F., assignor to Brown & Bigelow, St. Paul, Minn. Ash receiver. Des. 78,730; June 18.
- Craft, Earl F., assignor to Brown & Bigelow, St. Paul, Minn. Key chain. Des. 80,074; Dec. 10.
- Craft, Elissa, Wellsburg, W. Va. Sanitary bread slicer and container. 1,708,719; Apr. 9.
- Craft, James G., Needles, British Columbia, Canada. 1,709,206; Apr. 16.
- Craftex Company. (See Allen, Walter B., assignor.)
- Crafts, Irving M., assignor to The Pickering Governor Co., Portland, Conn. Governor. 1,709,463; Apr. 16.
- Crafts, Otis T., Manchester, N. H. Heel base and rubber heel. 1,701,872; Feb. 12.
- Craftsmen Products Co. (See McCarty, James, assignor.)
- Cragg, George L., Chicago, Ill., assignor to H. A. Douglas, Bronson, Mich. Combined lighting and signaling mechanism for automotive vehicles. 1,710,407; Apr. 23.
- Crago, Paul H., and G. D. Rabun, assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Railway-switching device. 1,735,954; Nov. 19.
- Craib, Frederick, Martinez, Calif. Electric wall bracket. Des. 77,639; Feb. 5.
- Craig, Burnie J., Los Angeles, Calif. Athletic standard. 1,737,108; Nov. 26.
- Craig, Chester J., assignor of thirty per cent to G. C. Turner, thirty per cent to A. P. Ladish, fifteen per cent to J. T. Skeen, and ten per cent to R. F. Burns, Kansas City, Mo. Coaster vehicle. 1,724,564; Aug. 13.
- Craig, Edward, St. Joseph, assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich. Basket-making machine. 1,706,440; Mar. 26.
- Craig, Edward, St. Joseph, assignor to Saranac Automatic Machine Corporation, Benton Harbor, Mich. Machine for making and inserting wire devices. 1,726,528; Sept. 3.
- Craig, Frederick, Springfield, Ohio. Game. 1,718,455; June 25.
- Craig, Gilbert T., Little Neck, assignor to Bar-Zim Toy Manufacturing Co., Inc., New York, N. Y. Sound-producing device. 1,729,031; Sept. 24.
- Craig, James A., Fishkill, N. Y. Method and apparatus for drying hides and the like. 1,730,125; Oct. 1.
- Craig, James M., and P. J. Georgiu, Regina, Saskatchewan, Canada. Trouser press and stretcher. 1,698,621; Jan. 8.
- Craig, John, Alta Vista, Kans. Three-row ground roller. 1,739,212; Dec. 10.
- Craig, Ollison. (See Andrews, L. V., and Craig.)
- Craig, Ollison, assignor to Riley Stoker Corporation, Worcester, Mass. Pulverizing apparatus. 1,714,080; May 21.
- Craig, Ollison, assignor to Riley Stoker Corporation, Worcester, Mass. Pulverizing apparatus. 1,739,213; Dec. 10.
- Craig, Richard M., San Antonio, Tex. Display apparatus. 1,698,216; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Display apparatus. 1,698,217; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Display apparatus. 1,698,218; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Display apparatus. 1,698,219; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Display apparatus. 1,698,220; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Method of and apparatus for displaying scenic relief effects. 1,698,221; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Producing transformation effects. 1,698,222; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Display apparatus. 1,698,223; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Display apparatus. 1,698,224; Jan. 8.
- Craig, Richard M., San Antonio, Tex. Display sign. 1,725,851; Aug. 27.
- Craig, Richard M., San Antonio, Tex., assignor, by mesne assignments, to Magnoad, Inc., New York, N. Y. Sign. 1,702,497; Feb. 19.
- Craig, Robert, assignor to Dayton Scale Company, Dayton, Ohio. Scale. 1,730,451; Oct. 8.
- Craig, Robert F. (See Hornbuckle, W. P., and Craig.)
- Craig, Robert M., Wilkesburg, Pa. Denture. 1,698,259; Jan. 8.
- Craig, Thomas D., Los Angeles, Calif. Mandrel. 1,705,440; Mar. 12.
- Craig, William T., Gowanda, Ontario, Canada. Coupling. 1,732,355; Oct. 22.
- Craig, John M., Hartford, Conn., assignor to E. H. Rowan, New York, N. Y. Dental apparatus. 1,732,790; Oct. 22.
- Craigan, Adam, Hamilton, Ontario, Canada. Internal-combustion engine. 1,741,404; Dec. 31.
- Craik, Norman. (See Booth, T. G., and Craik.)
- Crain, Jack R., assignor of one-half to C. V. Birkhead, R. Phelps, and G. D. Dewees, San Antonio, Tex. Frozen confection and process of manufacture. 1,737,919; Dec. 3.
- Crain, John J., assignor to The Waterbury Tool Company, Waterbury, Conn. Airship mooring mast and controls therefor. 1,712,104; May 7.
- Crain, Richard S. (See Nicks, J. H., and Crain.)
- Craire, Deo D. (See Craire, Zur W. and L. D.)
- Craire, Zur W. and L. D., Norwich, N. Y. Coal pocket. 1,720,882; July 16.
- Cram, Caraola M., Springfield, Vt. Tool chuck. 1,734,614; Nov. 5.
- Cram, Charles W., Birmingham, Ala., assignor of one-third to E. E. Cohner, McHenry, Miss. Cylinder head. 1,715,225; May 28.
- Cramer, Albert M., Philadelphia, Pa., assignor to Horn and Hardart Baking Company. Coin-slot protector. 1,736,522; Nov. 19.
- Cramer, Albert N., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-feeding apparatus. 1,698,563; Jan. 22.
- Cramer, Albert N., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,702,498; Feb. 19.
- Cramer, Albert N., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Forming hot glass into mold charges. 1,737,219; Nov. 26.
- Cramer, Albert N., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass feeder. 1,737,220; Nov. 26.
- Cramer, Albert N., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass-forming apparatus. 1,737,221; Nov. 26.
- Cramer, George F., Newark, N. J. Dispensing device. 1,731,767; Oct. 15.
- Cramer, Gustav, Portland, Oreg. Two-finger ring. 1,724,129; Aug. 13.
- Cramer, Jesse F. (See Cramer, Roy A. and J. F.)
- Cramer, John N., Martinsville, Ind. Rake. 1,705,441; Mar. 12.
- Cramer, Otto P., San Francisco, Calif. Door latch. 1,700,487; Jan. 29.
- Cramer, R. W., & Company. (See Disteli, Alfred M., assignor.)
- Cramer, Robert, Milwaukee, Wis., assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. Re17,284; May 7.
- Cramer, Roy, Dallas, Tex. Underreamer. 1,737,960; Dec. 3.
- Cramer, Roy A. and J. F., Kansas City, Mo. Safe and vault door. 1,716,426; June 11.
- Cramer, Roy A. and J. F., Kansas City, Mo. Safe. 1,716,427; June 11.
- Cramer, William E., assignor to The Harrop Ceramic Service Company, Columbus, Ohio. Method and apparatus for treating clayware. 1,709,063; Apr. 16.
- Crandall, Irving B., East Orange, N. J., and M. S. Estes, assignors to Western Electric Company, Incorporated, New York, N. Y. High-frequency sound signaling. 1,708,938; Apr. 16.
- Crandlemere, Charles R., Amherst, Mass. Square. 1,704,462; Mar. 5.
- Crane, A. A. (See Osborne, H. P., Farmer, and Teeter, assignors.)
- Crane, Adam L., assignor of one-eighth to A. Tomlin, one-eighth to P. E. Brown, and one-eighth to F. Koabler, Charlotte, N. C. Tie and rail fastener. 1,728,593; Sept. 17.
- Crane, Andrew, Prichard, Idaho. Hammer saw set and straightening device. 1,711,558; May 7.
- Crane & Breed Manufacturing Company, The. (See Blesch, Charles, assignor.)
- Crane, Charles R., 2d, and R. H. Zinkil, assignors to Crane Co., Chicago, Ill. Sink. Des. 80,218; Dec. 31.
- Crane Co. (See Crane, C. R., 2d, and Zinkil, assignors.)
- Crane Co. (See Flodin, Victor E., assignor.)
- Crane Co. (See Houser, A. M., and Dopp, assignor.)
- Crane Co. (See Olson, C. A., and Beckwith, assignors.)
- Crane, Elmer E., Littlefield, Tex. Cotton harvester. 1,721,545; July 23.
- Crane, Frank B., assignor to California Sanitary Canning Co., Los Angeles, Calif. Agricultural implement. 1,730,759; Oct. 8.
- Crane, Harvey E., Fort Wayne, Ind., assignor to The Hoover Company. Motor compressor unit. 1,704,635; Mar. 5.
- Crane, Henry R., New York, N. Y. Sun shield for motor vehicles. 1,732,447; Oct. 22.



- Crane, Leslie, assignor of one-half to F. R. Patch Manufacturing Company, Rutland, Vt. Electric polishing machine. 1,703,815; Feb. 26.
- Crane Packing Company. (See Cody, Martin M., assignor.)
- Crane Packing Company. (See Walton, Julian N., assignor.)
- Crane, Raymond E., Ford City, Pa., and T. J. Kaufman, Chicago, Ill. Lavatory. 1,740,156; Dec. 17.
- Crane, Samuel G., assignor to S. B. Crane, Kansas City, Mo. Automatic swinging crib. 1,727,635; Sept. 10.
- Crane, Sylvanus B. (See Crane, Samuel G., assignor.)
- Crank, Gilbert O., Lawton, W. Va. Vehicle. 1,737,493; Nov. 26.
- Crank, James M. (See Hickey, John P., assignor.)
- Cranmore, Frank H., assignor to The Meyer-Sniffen Company, New York, N. Y. Liquid-soap container. 1,722,456; July 30.
- Cranshaw, Harold B., Newton, assignor to Burnitall Manufacturing Company, Everett, Mass. Receptacle. 1,719,876; July 9.
- Crauston, Albert E., Spokane, Wash. Box-wall-forming integer. 1,716,767; June 11.
- Cranson, Albert E., Spokane, Wash., assignor to one-half to A. J. Gerrard, San Francisco, Calif. Box end and making the same. 1,727,810; Sept. 10.
- Crapo, Frederick M., assignor to Indiana Steel & Wire Company, Muncie, Ind. Making protected metal. 1,726,652; Sept. 3.
- Crary, Cecil R., assignor to G. T. Crary, Detroit, Mich. Closure for containers. 1,734,367; Nov. 5.
- Crary, Cecil R., assignor to G. T. Crary, Detroit, Mich. Closure. 1,734,563; Nov. 5.
- Crary, Cecil R., assignor to G. T. Crary, Detroit, Mich. Closure. 1,734,564; Nov. 5.
- Crary, Grace T. (See Crary, Cecil R., assignor.)
- Crary, James H., Flushing, N. Y. Internal-combustion engine. 1,718,116; June 18.
- Crary, James H., New York, N. Y. Internal-combustion engine. 1,722,201; July 23.
- Cratts, James K. (See Cooper, Martin, assignor.)
- Craufurd, Quentin C. A., Lydd, and C. C. J. Frost, Windsor, England. Wireless signaling system. 1,727,536; Sept. 10.
- Cravath, Austin M. (See Cravath, James R. and A. M.)
- Cravath, James R. and A. M., Albany, Calif. Automobile seat. 1,711,476; Apr. 30.
- Craven, Amelia. (See Alexander, George, assignor.)
- Cravener, Leon J., Chicago, Ill. Oven grate. 1,725,180; Aug. 20.
- Craver, Alvis W. (See Blakeman, B. F., and Craver.)
- Craver, Harry, assignor to American Can Company, New York, N. Y. Cover-holding means for collar cans. 1,725,957; Aug. 27.
- Cravey, James B., and P. R. Pierson, Montgomery, Ala. Dispensing device with safety lock. 1,699,097; Jan. 15.
- Cravey, James B., and P. R. Pierson, Montgomery, Ala. Dispensing device with safety lock. 1,736,489; Nov. 19.
- Crawford, Alfred, assignor to Crawford Manufacturing Company, New Brunswick, N. J. Stop motion for knitting machines. 1,699,390; Jan. 15.
- Crawford, Allen I., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron-discharge device. 1,708,939; Apr. 16.
- Crawford, Allen I., New York, and R. M. Sample, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vacuum-tube base. 1,711,673; May 7.
- Crawford, Archibald M. (See Stanton, H. L., and Crawford.)
- Crawford, David L., Oakmont, assignor to Verona Tool Works, Pittsburgh, Pa. Rail bond. 1,715,190; May 28.
- Crawford, Frederick C., and M. P. Graham, Detroit, Mich., assignors to Thompson Products Inc., Cleveland, Ohio. Making ball seats. 1,714,660; May 28.
- Crawford, Frederick C., and M. P. Graham, Detroit, Mich., assignors to Thompson Products Inc., Cleveland, Ohio. Making ball seats. 1,714,661; May 28.
- Crawford, George G., Birmingham, Ala. Tuyère. 1,727,337; Sept. 10.
- Crawford, George S., assignor to S. L. Woods, Chicago, Ill. Blank for side bearings for railway cars. 1,718,217; June 25.
- Crawford, Harry H., assignor of one-half to J. H. Crawford, Chicago, Ill. Hanger for use in concrete ceilings. 1,732,260; Oct. 22.
- Crawford, Henry H., Little Rock, Ark. Measuring device. 1,736,490; Nov. 19.
- Crawford, Hezekiah H., Birmingham, Ala. Brush. 1,718,731; June 25.
- Crawford, Howard S., Kansas City, Mo. Tire-inflation-testing appliance. 1,714,769; May 28.
- Crawford, Jesse C., Pittsburgh, Pa. Memoranda device. 1,714,159; May 21.
- Crawford, John. (See Abell, R., and Crawford.)
- Crawford, John. (See Marshall, Emma, assignor.)
- Crawford, John F., assignor to J. I. Case Company, Racine, Wis. Lubricating system for differential vehicle housings. 1,741,501; Dec. 31.
- Crawford, John H. (See Crawford, Harry H., assignor.)
- Crawford, John H., Harrisburg, Ill. Mining apparatus. Re17,467; Oct. 22.
- Crawford, John H., A. W. Helmholtz, and D. Ferrell, Harrisburg, Ill., assignors to Safety Mining Company. Blasting cartridge. Re17,471; Oct. 29.
- Crawford, Loyal F., Pittsburgh, Pa., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining system. 1,702,558; Feb. 19.
- Crawford Manufacturing Company. (See Crawford, Alfred, assignor.)
- Crawford Oven Co., The. (See Huth, Walter C., assignor.)
- Crawford, Ralph D., Mamaroneck, N. Y. Automatic stoker. 1,709,464; Apr. 16.
- Crawford, Robert M., Aspinwall, Pa. Desulphurizing gas. 1,724,909; Aug. 20.
- Crawford, Wilbur F., Waco, Tex. Harvesting sack. 1,704,284; Mar. 5.
- Crawford, William E., Wauwatosa, and R. C. F. Kurtze, assignors to A. O. Smith Corporation, Milwaukee, Wis. Electric resistance welding of pipe. 1,739,063; Dec. 10.
- Crawshaw, Stephen L., Dallas, Tex., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Counterbalance for oil-well pumps. 1,729,737; Oct. 1.
- Cream Processes, Inc. (See Rushton, A. L., Simpson, and Beckman, assignors.)
- Creamer, Edgar R. (See Bolender, J. D., and Creamer.)
- Creamery Package Mfg. Company, The. (See Godfrey, Joseph H., assignor.)
- Creamery Package Mfg. Company, The. (See Hippenmeyer, Irving R., assignor.)
- Creamery Package Mfg. Company, The. (See Ladewig, A. E., and Soelch, assignors.)
- Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)
- Creamery Package Mfg. Company, The. (See Roberts, Nathaniel, assignor.)
- Cree and Company. (See Carpenter, W. J., and Teague, assignors.)
- Creech, Isaac H., Cumberland, Ky. Liquid-dispensing apparatus. 1,734,474; Nov. 5.
- Creed and Company Limited. (See Creed, Frederick G., assignor.)
- Creed & Company Limited. (See Symonds, Edward O., assignor.)
- Creed, Frederick G., Croydon, England, assignor to Creed and Company Limited. Picture telegraphy. 1,713,266; May 14.
- Creed, Frederick G., Croydon, England, assignor to Creed and Company Limited. Telegraphic apparatus for the automatic reception and retransmission of electric signals. 1,714,901; May 28.
- Creelman, James A., Chicago, Ill. Shoe last for the correction of certain ailments of the human foot. 1,735,598; Nov. 12.
- Creepcheck Company. (See Konold, Christian, assignor.)
- Creese, Walter, Leicester, England. Last. 1,729,821; Oct. 1.
- Cregier, Nathaniel B., Chicago, Ill. Record-playing mechanism. 1,710,692; Apr. 30.
- Crego, William A., and C. W. Andrews, assignors to Roper Knitting Company, Inc., Canandaigua, N. Y. Jacket. 1,698,673; Jan. 8.
- Crego, William A., and C. W. Andrews, assignors to Roper Knitting Company, Inc., Canandaigua, N. Y. Pants. 1,698,674; Jan. 8.
- Crehan, Hubert and W. A., Pittsburgh, Pa. Bolt-finishing machine. 1,738,642; Dec. 10.
- Crehan, William A. (See Crehan, Hubert and W. A.)
- Crehan, William A., Pittsburgh, Pa. Nut-tapping machine. 1,736,581; Nov. 19.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,724,396; Aug. 13.
- Creighton, Frank M., Americus, Ga., and W. E. Gray, Memphis, Tenn., assignors to Moore Dry Kiln Company, Jacksonville, Fla. Dry kiln. 1,734,850; Nov. 5.
- Creighton, Fred, Patchogue, N. Y. Windshield cleaner. 1,699,049; Jan. 15.
- Creighton, Henry J., Swarthmore, Pa., assignor to Atlas Powder Company, Wilmington, Del. Electrolysis reduction cell. 1,712,951; May 14.
- Creighton, Henry J., Swarthmore, Pa., assignor to Atlas Powder Company, Wilmington, Del. Apparatus for carrying out electrolytic reduction of sugars to alcohols. 1,712,952; May 14.
- Creighton, Thomas A. (See Ferlin, J. J., and Creighton.)
- Creighton, Thomas A., Ventura, Calif. Removable piston guide. 1,729,989; Oct. 1.
- Crell, Edward W., assignor to Union Oil Company of California, Los Angeles, Calif. Gauging device. 1,739,711; Dec. 17.
- Cremean, William F., Toledo, Ohio. Door-locking mechanism. 1,737,920; Dec. 3.
- Crémer, Michel, Paris, France, assignor to General Electric Company. Time-element electroresponsive device. 1,717,191; June 11.
- Crenshaw, Colman A., Salt Lake City, Utah. Lock. 1,699,734; Jan. 22.
- Creo-Dipt Company. (See Gosch, Harry E., assignor.)
- Crerar, Adams & Co. (See Rostron, Robert, assignor.)
- Crescent Appliance Corporation. (See Jermon, Horace D., assignor.)
- Crescent Truck Company. (See Saitta, Philip W., assignor.)
- Cresci, Anthony L., Vineland, N. J. Turntable. 1,699,463; Jan. 15.
- Creser, Alfred A. T., Richmond, England. Carburetor. 1,716,576; June 11.



- Cress, Horatio G., Troy, Ohio. Memorandum slate. Des. 79,789; Nov. 5.
- Cress, Howard S. (See McLimans, J. P., and Cress.)
- Cressler, Edward P., Newton, Kans. Stereoscopic film or plate pack. 1,713,350; May 14.
- Cressler, Edward P., Newton, Kans. Dental film or plate holder. 1,719,106; July 2.
- Cressler, Edward P., Newton, Kans. View-changer for stereoscopes. 1,736,071; Nov. 19.
- Cressler, Edward P., Newton, Kans., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. 1,712,069; May 7.
- Cressler, Edward P., Newton, Kans., assignor to Cook Laboratories, Inc., Chicago, Ill. Syringe. 1,712,070; May 7.
- Cressler, Edward P., assignor of one-half to J. L. Grove, Newton, Kans. Cleaning brush. 1,725,852; Aug. 27.
- Cressler, Edward P., Newton, Kans., assignor to Cook Laboratories, Inc., Chicago, Ill. Syringe. 1,728,259; Sept. 17.
- Cresson-Morris Company. (See Morris, Anthony S., assignor.)
- Crest Corporation. (See Page, Charles E., assignor.)
- Cretons, Charles, Chicago, Ill. Corn-popping apparatus. 1,729,866; Oct. 1.
- Creveling, John L., Tucson, Ariz., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Electric system. 1,705,664; Mar. 19.
- Creveling, John L., Oracle, Ariz., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Electric regulation. 1,725,132; Aug. 20.
- Creveling, John L., Oracle, Ariz., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Electric regulation. 1,732,929; Oct. 22.
- Crew, Francis J., Towson, Md. Cooling device for internal-combustion engines. 1,731,708; Oct. 15.
- Crews, Cecil, Charleston, W. Va. Battery terminal. 1,732,261; Oct. 22.
- Crews, William W., Beach, Ga. Chufa-gathering apparatus. 1,714,348; May 21.
- Cribari, Louis A., New York, N. Y. Grape-preserving apparatus. 1,698,430; Jan. 8.
- Cribben & Sexton Company. (See MacInnes, Robert H., assignor.)
- Cribben & Sexton Company. (See Smith, Wilson A., assignor.)
- Cricchio, Paul, New York, assignor to Majestic Lamp Works, Brooklyn, N. Y. Lighting fixture base or article of analogous nature. Des. 78,268; Apr. 16.
- Cricchio, Paul, New York, assignor to Majestic Lamp Works, Brooklyn, N. Y. Handle for smoking stands or analogous articles. Des. 78,269; Apr. 16.
- Cricchio, Paul, New York, assignor to Majestic Lamp Works, Brooklyn, N. Y. Column for smoking stand or article of analogous nature. Des. 78,380; Apr. 30.
- Cricchio, Paul, New York, assignor to Majestic Lamp Works, Brooklyn, N. Y. Handle for smoking stands or analogous articles. Des. 78,381; Apr. 30.
- Cricchio, Paul, New York, assignor to Majestic Lamp Works, Brooklyn, N. Y. Lamp base or article of analogous nature. Des. 78,450; May 7.
- Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Lamp. Des. 78,967; July 16.
- Cricchio, Paul, New York, assignor to Majestic Lamp Works, Brooklyn, N. Y. Bowl or analogous article. Des. 79,184; Aug. 13.
- Cricchio, Paul, New York, assignor to Majestic Lamp Works, Brooklyn, N. Y. Candlestick or analogous article. Des. 79,185; Aug. 13.
- Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Base for clock cases or articles of analogous nature. Des. 79,281; Aug. 27.
- Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Frame for clocks or articles of analogous nature. Des. 79,282; Aug. 27.
- Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Plate for smokers' sets. Des. 79,507; Oct. 1.
- Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Handle for smokers' stands or articles of analogous nature. Des. 79,508; Oct. 1.
- Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Lamp or analogous article. Des. 79,955; Nov. 26.
- Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Lamp or analogous article. Des. 80,167; Dec. 24.
- Crichton, Delma C., Brooklyn, N. Y. Hoisting and transporting device. 1,732,153; Oct. 15.
- Crichton, Leslie N. (See Uley, D., and Crichton.)
- Crichton, Leslie N., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resetting device for operation indicators. 1,726,653; Sept. 3.
- Crichton, Leslie N., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. 1,730,877; Oct. 8.
- Crichton, Leslie N., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ground relay. 1,731,372; Oct. 15.
- Crichton, Leslie N., and S. L. Goldsborough, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electrical system. 1,742,025; Dec. 31.
- Crickmer, Charles S., assignor to The Guiberson Corporation, Dallas, Tex. Fluid-containing cup. 1,735,264; Nov. 12.
- Crill, Edgar J., Utica, N. Y. Shower-bath spray. 1,733,054; Oct. 22.
- Crim Wadsworth & Thiel Auto Theft Alarm Development Company, The. (See Wadsworth, George E., assignor.)
- Crimmel, Alvie C. (See Barmean, S. G., and Crimmel.)
- Cricks, Percival F., Sidcup, assignor to Vickers Boiler Company Limited, London, England. Water-tube boiler. 1,720,469; July 9.
- Cripe, Joe, Tulsa, Okla. Lawn trimmer. 1,720,169; July 9.
- Criqui, Charles A. (See Larkin, Elwood T., assignor.)
- Crismor, Frank, Caledonia, and M. Miller, Marion, Ohio. Rail joint and protectors. 1,722,901; July 30.
- Crispen, Clarence C., Harrisburg, Pa. Electric control switch. 1,703,724; Feb. 26.
- Crispen, Clarence C., Harrisburg, Pa. Elevator. 1,714,297; May 21.
- Criss, Elias L., Farmington, W. Va. Antitrack spreader. 1,730,807; Oct. 8.
- Crissman, Ira S., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Producing wheel bodies. 1,711,833; May 7.
- Crisson, George. (See Clark, A. B., and Crisson.)
- Crisson, George. (See Hanson, O. B., Crisson, and McKown.)
- Crisson, George, East Orange, N. J., assignor to American Telephone and Telegraph Company. Volume control of transmission. 1,737,830; Dec. 3.
- Crist, Donald M., San Francisco, Calif., assignor to Triumph Steel Co., Reno, Nev. Electromagnetic ore separator. 1,729,095; Sept. 24.
- Crist, Robert W., Bedford, Ohio, assignor, by mesne assignments, to The Midland Engineering Company. Pile driver. 1,728,665; Sept. 17.
- Crist, Robert W., Coraopolis, assignor to Dravo Contracting Company, Pittsburgh, Pa. Traveling gantry. 1,719,967; July 9.
- Crist, Wilbur G., Yellow Pine, Ala. Automobile head-lamp mounting. 1,700,028; Jan. 22.
- Cristiani, Severino. (See Baronis, Renato, assignor.)
- Criswell, Walter H., and L. W. Bond, Seattle, Wash. Valve. 1,713,889; May 21.
- Critchfield, Robert M., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Sound signal. 1,716,369; June 11.
- Critchfield, Robert M., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Sound signal. 1,730,192; Oct. 1.
- Critchfield, Robert M., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation. Electric motor. 1,733,864; Oct. 29.
- Critchfield, Robert M., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Electric horn. 1,735,235; Nov. 12.
- Critchfield, Robert M., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Dynamo-electric machine. 1,738,171; Dec. 3.
- Critchfield, Walter O., assignor to Shelby Salesbook Company, Shelby, Ohio. Sales-book attachment. 1,712,873; May 14.
- Critchfield, Walter O., assignor to Shelby Salesbook Company, Shelby, Ohio. Tissue holder for sales books. 1,733,865; Oct. 29.
- Crites, Joe, Evanston, assignor to The Raymond Brothers Impact Pulverizer Company, Chicago, Ill. Pulverizing mill. 1,702,248; Feb. 19.
- Criteser, Fred F., Roseburg, Oreg. Power unit. 1,739,353; Dec. 10.
- Crittall, Richard G., and J. L. Musgrave, London, England. Heating and cooling of buildings. 1,740,336; Dec. 17.
- Crittall, Richard G., and J. L. Musgrave, London, England. Heating and cooling of buildings. 1,718,533; June 25.
- Crocco, Hector E., Buenos Aires, Argentina. Soap. 1,733,150; Oct. 29.
- Crocker, Irving S., Lynn, Mass., assignor to General Electric Company. Surge arrester. 1,717,192; June 11.
- Crocker, John C. (See Bell, F. B., and Crocker.)
- Crocker, Percival B., assignor to The Sentry Company, Taunton, Mass. Electric heater. 1,709,340; Apr. 16.
- Crocker, Thomas F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Automatic telephone system. 1,711,109; Apr. 30.
- Crocker, Thomas F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,738,358; Dec. 3.
- Crocker, Thomas F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,741,098; Dec. 24.
- Crocker, Thomas F., and H. R. Parshall, Chicago, Ill., assignors to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,740,073; Dec. 17.
- Crocker-Wheeler Electric Manufacturing Company. (See Bunker, Arthur C., assignor.)
- Crocker-Wheeler Electric Manufacturing Company. (See Spencer, Millard C., assignor.)
- Crockett, Ernest J., Glendale, Calif. Film-exposure apparatus for motion pictures. 1,707,625; Apr. 2.
- Crockett, Guy E. (See Speakman, W. F., and Crockett.)
- Crockett, Robert A., Liverpool, England. Brake for road vehicles. 1,731,160; Oct. 8.
- Crockett, Walter B., Kansas City, Mo. Clip fastener. 1,702,596; Feb. 19.
- Crofoot, John B., Arlington Heights, Ill. Stapling means. 1,732,001; Oct. 15.



- Crofoot, John B., Mount Prospect, Ill. Cushion cap for tools. 1,713,819; May 21.
- Crofoot, John B., Mount Prospect, Ill. Cushion cap for tools. 1,713,820; May 21.
- Croft, Fred L., Coalinga, Calif. Engine valve. 1,697,718; Jan. 1.
- Croft, George A. (See Kogelschatz, Henry C., assignor.)
- Croft, Hiram D. (See Perkins, J. L., and Croft.)
- Croft, Hiram D., Springfield, assignor to Perkins Machine and Gear Company, West Springfield, Mass. Laying out gears. 1,710,349; Apr. 23.
- Croft, Lorenzo E. (See Downing, E. J., Sheets, and Croft.)
- Croll, George M., Camp Borden, Ontario, Canada. Motion-picture-film-feeding device. 1,723,768; Aug. 6.
- Croll, John L., and L. F. Lutz, Kansas City, Kans. Automobile door holder and antirattler. 1,712,813; May 14.
- Crom, John M., Chicago, Ill., and A. C. Linberg, assignors to Cement Gun Company, Inc., Allentown, Pa. Locking outlet valves in position. 1,718,532; June 25.
- Cromar Company, The. (See Dittmar, Elmer C., assignor.)
- Cromer, Thomas H., Greenville, S. C. Sliding door. 1,698,675; Jan. 8.
- Cromer, Thomas P. (See Mays, A. L., and Cromer.)
- Cromie, George A., New Haven, Conn. Corner marker for land surveys. 1,712,028; May 7.
- Crompton, George, Jr., Worcester, Mass. Aeroplane. 1,716,116; June 4.
- Crompton, George F., Rock Island, Ill. Valve-grinding mechanism. 1,738,694; Dec. 10.
- Crompton, Inc. (See Crompton, Randolph, assignor.)
- Crompton & Knowles Loom Works. (See Birmingham, William B., assignor.)
- Crompton & Knowles Loom Works. (See Blanchard, Harold L., assignor.)
- Crompton & Knowles Loom Works. (See Bridges, Doctor S. B., assignor.)
- Crompton & Knowles Loom Works. (See Cederlund, Albert, assignor.)
- Crompton & Knowles Loom Works. (See Cederlund, A., and Hutchins, assignors.)
- Crompton & Knowles Loom Works. (See Chevette, A. J., and Unwin, assignors.)
- Crompton & Knowles Loom Works. (See Chevette, Augustin J., assignor.)
- Crompton & Knowles Loom Works. (See Clark, Everett H., assignor.)
- Crompton & Knowles Loom Works. (See Dumas, Joseph N., assignor.)
- Crompton & Knowles Loom Works. (See Frechett, George, assignor.)
- Crompton & Knowles Loom Works. (See Gordon, A. A., and Morrell, assignors.)
- Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)
- Crompton & Knowles Loom Works. (See Hagarty, Thomas F., assignor.)
- Crompton & Knowles Loom Works. (See Ham, N. E., and Needham, assignors.)
- Crompton & Knowles Loom Works. (See Hollingworth, Edward, assignor.)
- Crompton & Knowles Loom Works. (See Holmes, E. R., and Abrial, assignors.)
- Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
- Crompton & Knowles Loom Works. (See Howard, Charles R., assignor.)
- Crompton & Knowles Loom Works. (See Hume, J. E., and King, assignors.)
- Crompton & Knowles Loom Works. (See Hutchins, Allan S., assignor.)
- Crompton & Knowles Loom Works. (See King, William H., assignor.)
- Crompton & Knowles Loom Works. (See Lockwood, G. D., and Soderberg, assignors.)
- Crompton & Knowles Loom Works. (See Lundgren, William E., assignor.)
- Crompton & Knowles Loom Works. (See Marsden, Fred, assignor.)
- Crompton & Knowles Loom Works. (See Molloy, H. L., and Bellisle, assignors.)
- Crompton & Knowles Loom Works. (See Olch, Jacob B., assignor.)
- Crompton & Knowles Loom Works. (See Paine, A. P., and Blanchard, assignors.)
- Crompton & Knowles Loom Works. (See Paine, Arthur P., assignor.)
- Crompton & Knowles Loom Works. (See Pansy, Joseph, assignors.)
- Crompton & Knowles Loom Works. (See Payne, O. V., and Turner, assignors.)
- Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
- Crompton & Knowles Loom Works. (See Petero, John, assignor.)
- Crompton & Knowles Loom Works. (See Potter, Richard W., assignor.)
- Crompton & Knowles Loom Works. (See Regan, John, assignor.)
- Crompton & Knowles Loom Works. (See Robertson, William W., assignor.)
- Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
- Crompton & Knowles Loom Works. (See Shutt, George H., assignor.)
- Crompton & Knowles Loom Works. (See Shutt, J. R., and Gordon, assignors.)
- Crompton & Knowles Loom Works. (See Simpson, Jesse W., assignor.)
- Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
- Crompton & Knowles Loom Works. (See Unwin, K. J., and Wakefield, assignors.)
- Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)
- Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
- Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
- Crompton & Knowles Loom Works. (See Whitin, Herbert A., assignor.)
- Crompton & Knowles Loom Works. (See Young, Carlos L., assignor.)
- Crompton, Randolph, Worcester, assignor to Crompton, Inc., Boston, Mass. Weaving. 1,740,768; Dec. 24.
- Crompton, William B., Walkden, England. Machine for bobbin-to-bobbin sizing. 1,724,397; Aug. 13.
- Cromwell, John C., Columbus, Ohio, assignor, by mesne assignments, to The Testite Company. Closet connection. 1,703,725; Feb. 26.
- Cromwell, John C., Columbus, Ohio, assignor, by mesne assignments, to The Testite Company. Apparatus for washing dishes. 1,724,910; Aug. 20.
- Cromwell, Oliver F. W., Ridgway, Pa. Apparatus for finishing leather. 1,715,226; May 28.
- Cromwell, Richard A., Woodsville, N. H. Cigar lighter. Des. 78,877; July 2.
- Cronwall, Magnus. (See Ellberg, J., and Cronwall.)
- Crone, Seth A., East Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Railway-brake-beam support. 1,698,393; Jan. 8.
- Crone, Seth A., East Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Railway-brake-beam support. 1,708,121; Apr. 9.
- Cronin, James A., Berkeley, Calif. Piston ring. 1,699,135; Jan. 15.
- Croning, Johannes, Hamburg, Germany, assignor, by mesne assignments, to Crown Lock Company. Cylinder lock. Re17,451; Oct. 8.
- Cronk, Charles D., Cleveland Heights, Ohio, assignor to General Railway Signal Company, Rochester, N. Y. Cross-protection relay. 1,713,489; May 14.
- Cronmiller, Howard A. (See Edwards, O. M., and Cronmiller.)
- Cronmiller, Howard A., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Reinforced metal window sash. 1,703,479; Feb. 26.
- Cronwall, Carl G., Chicago, Ill. Bending and forming machine. 1,722,178; July 23.
- Crook, Charles M., assignor to Stromberg Electric Company, Chicago, Ill. Time recorder. 1,719,000; July 2.
- Crook, Charles M., and A. E. Long, assignors to Stromberg Electric Company, Chicago, Ill. Time-controlled mechanism. 1,725,569; Aug. 20.
- Crook, Louis H., Washington, D. C. Aerodynamic control of airplane wings. 1,724,456; Aug. 13.
- Crooker, Edwin R., and H. C. Newman, Los Angeles, Calif.; said Newman assignor to said Crooker. Electric heater. 1,718,412; June 25.
- Croom, Grover C., Little Rock, Ark. Sanitary drinking glass. 1,712,552; May 14.
- Croom, Thomas L. (See Barrett, T. J., and Croom.)
- Croom, Thomas L., assignor to W. M. Barrett, Los Angeles, Calif. Infra-red ray generator. 1,730,808; Oct. 8.
- Cropper, Walter L. (See Turner, J. C., and Cropper.)
- Crop Protection Institute. (See Hartzell, A., and Lathrop, assignors.)
- Cropsey, Henry N., Alexandria, Va. Invalid support. 1,731,709; Oct. 15.
- Crosbie, Robert M., Relay, Md. Drip catcher. 1,727,428; Sept. 10.
- Crosby, Benjamin F. (See Allen, E. B., and Crosby.)
- Crosby, Fred B., assignor to Morgan Construction Company, Worcester, Mass. Electrically-operated switch for the product of rolling mills. Re17,410; Aug. 20.
- Crosby, Gorham. (See Gunn, Thomas M., assignor.)
- Crosby, Oscar A., Philadelphia, Pa. Tap and die holder. 1,740,887; Dec. 24.
- Crosby, Reuben S., and F. E. Newton, Hartford, Conn.; said Crosby assignor to said Newton. Machine for applying nuts to screws, bolts, and studs. 1,737,876; Dec. 3.
- Crosby, Reuben S., and F. E. Newton, Hartford, Conn.; said Crosby assignor to said Newton. Machine for counting and packaging articles. 1,737,877; Dec. 3.
- Crosby, Reuben S., assignor to The Asa S. Cook Company, Hartford, Conn. Machine for applying nuts to screws, bolts, and studs. 1,739,712; Dec. 17.
- Crosby, Walter E. (See Board, C. W., and Crosby.)
- Crosland, Edward M., Newton-le-Willows, England. Biscuit-making machinery. 1,739,504; Dec. 17.
- Crosley, John L., Morehead, Ky. Knockdown coop. 1,705,003; Mar. 12.
- Crosley, Powell, Jr., Cincinnati, Ohio. Variable Inductance. 1,710,966; Apr. 30.
- Crosley Radio Corporation, The. (See Thomas, Adolph A., assignor.)
- Crosman, Loring P., Maplewood, assignor to Monroe Calculating Machine Company, Inc., Orange, N. J. Spring testing and assorting machine. 1,713,690; May 21.



- Cross, Andrew B., and W. H. Frazier, Denver Colo. Well-boring drill bit. 1,723,330; Aug. 6.
- Cross, Andrew B., and W. H. Frazier, Denver, Colo. Electric windshield heater. 1,725,732; Aug. 20.
- Cross, Anne W., Stockton, Calif. assignor of one-third to B. Connel and one-third to B. Privat. Sanitary individual telephone mouthpiece. 1,739,950; Dec. 17.
- Cross, Bertram J., Piermont, assignor to International Combustion Engineering Corporation, New York, N. Y. Feeder. 1,729,032; Sept. 24.
- Cross Brothers Company. (See Philip, George R., assignor.)
- Cross, Charles N., Stanford University, and W. S. Ingram, San Francisco, Calif. Hot-air furnace. 1,698,937; Jan. 15.
- Cross, Charles S., Brooklyn, N. Y., assignor to Circle F Mfg. Co., Trenton, N. J. Electric switch. 1,720,627; July 9.
- Cross, Charles S., Brooklyn, and C. A. Smith, Jamaica, N. Y., assignors to Circle F Mfg. Co., Trenton, N. J. Electric switch. 1,720,511; July 9.
- Cross, Daniel D., Detroit, Mich. Wire cutting and stripping machine. 1,733,294; Oct. 29.
- Cross Development Corporation. (See Cross, Roy, assignor.)
- Cross, Frank L., Port Washington, N. Y., and H. Hallstream, Brockton, Mass., assignors to Cross Paper Feeder Company. Paper-feeding machine. 1,736,340; Nov. 19.
- Cross, Frederick J., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Casserole. Des. 79,457; Sept. 24.
- Cross, Frederick J., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Percolator. 1,708,663; Apr. 9.
- Cross, George W., Nashville, Tenn. Automobile radiator repair and test apparatus. 1,712,874; May 14.
- Cross, John H., E. W. Franklin, and E. L. Schneider, assignors to The Waterman-Waterbury Company, Minneapolis, Minn. Crescent radiator. 1,726,695; Sept. 3.
- Cross Paper Feeder Company. (See Cross, F. L., and Hallstream, assignors.)
- Cross, Ray L., Seneca, Va. Syringe. 1,733,449; Oct. 29.
- Cross, Roy, assignor, by mesne assignments, to Silica Products Co., Kansas City, Mo. Lubricating composition. 1,739,631; Dec. 17.
- Cross, Roy, Kansas City, Mo., assignor to Cross Development Corporation, Wilmington, Del. Refining petroleum oil. 1,718,218; June 25.
- Cross, Roy, Kansas City, Mo., and W. A. Collings, Santa Monica, assignors to Silica Products Co., Los Angeles, Calif. Lightweight concrete and making the same. 1,710,921; Apr. 30.
- Cross, Walter M., Kansas City, Mo. Heater. 1,734,079; Nov. 5.
- Cross, Walter M., Kansas City, Mo. Tube fitting. 1,742,175; Dec. 31.
- Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Making forged chambers. 1,699,688; Jan. 22.
- Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to The Gasoline Products Company, Inc., Wilmington, Del. Converting petroleum oils. 1,717,007; June 11.
- Cross, Walter M., Kansas City, Mo., assignor to Clayton Oil and Refining Company, Dallas, Tex. Dephlegmator. 1,734,615; Nov. 5.
- Cross, William H. (See Monckton, Philip H. P., assignor.)
- Cross, William J., Ann Arbor, Mich. Sanding device. 1,735,039; Nov. 12.
- Crosse and Blackwell, Inc. (See Maddaford, Francis S., assignor.)
- Crossen, Kay M., Lima, Ohio. Attachment for locks. 1,700,284; Jan. 29.
- Crossland, George, Wallingford, Vt., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Axminster setting frame. 1,741,828; Dec. 31.
- Crossley, Alfred. (See Taylor, A. H., and Crossley.)
- Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal oscillator. 1,738,041; Dec. 3.
- Crossley, Charles C., Struthers, Ohio. Monument. 1,710,014; Apr. 23.
- Crossley, James S., Moonee Ponds, Victoria, Australia. Forming electrodes. 1,733,866; Oct. 29.
- Crossley, James S., Moonee Ponds, Victoria, Australia. Secondary cell and parts thereof. 1,733,944; Oct. 29.
- Crossley, John, & Sons Ltd. (See Britton, Robert, assignor.)
- Crossley, Moses L., Plainfield, assignor to Calco Chemical Company, Boundbrook, N. J. Pharmaceutical. 1,716,686; June 11.
- Crossley, Moses L., Somerville, and G. S. Simpson, Plainfield, assignors to The Calco Chemical Company, Boundbrook, N. J. Salts of beta naphthol sulphonic acids and making the same and of obtaining separate salts. 1,701,259; Feb. 5.
- Crossman, Albert, Brooklyn, N. Y. Mixer. 1,724,750; Aug. 13.
- Crossman, Francis M., New York, N. Y. Drier for briquettes and other agglomerates. 1,701,873; Feb. 12.
- Crossman, Henry T., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,701,031; Feb. 5.
- Crossman, Robert J., San Francisco, Calif. Finisher. 1,726,888; Sept. 3.
- Crosthwait, David N., jr., assignor to C. A. Dunham Company, Marshalltown, Iowa. 1,727,965; Sept. 10.
- Crowell, Samuel P., Malden, Mass. Baby carriage. 1,714,902; May 28.
- Crothers, Arthur D., Chicago, Ill. Static electricity eliminator for vehicles. 1,709,779; Apr. 16.
- Crotto, Frank E., assignor to Western Supply Company, Tulsa, Okla. Wire-line clamp. 1,723,173; Sept. 17.
- Crotty, Thomas A., Erie, Pa. Conduit box. 1,725,853; Aug. 27.
- Crouch, James L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound reproducer. 1,717,146; June 11.
- Crouch, Nelle M., Columbia, Mo. Dye set. 1,702,155; Feb. 12.
- Crouse, George B., Woodcliff, N. J. Electrical filter. 1,738,760; Dec. 10.
- Crouse, George B., Woodcliff, N. J., assignor to Conner Crouse Corporation, New York, N. Y. Rectifying alternating current. 1,704,791; Mar. 12.
- Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
- Crouse-Hinds Company. (See Buchanan, Frank, assignor.)
- Crouse-Hinds Company. (See Olley, Raymond H., assignor.)
- Crouse-Hinds Company. (See Pearson, J. T., and Olley, assignors.)
- Crow, Edgar I., Taft, Tex. Header harvester. 1,728,477; Sept. 17.
- Crow, Frank P. (See Cunningham, Jess B., assignor.)
- Crow, James T., Arkadelphia, Ark. Vending booth. Des. 78,010; Mar. 19.
- Crow, Waller, Chicago, Ill., assignor to Dittlinger-Crow Company, New Braunfels, Tex. Calcining alkaline-earth materials. 1,710,967; Apr. 30.
- Crow, Waller, and J. C. Schaffer, assignors to Schaffer Poidometer Company, Pittsburgh, Pa. Fuel-feeding apparatus. 1,718,032; June 18.
- Crowder, Harvey, Alabama City, assignor of one-half to J. L. Botsford, Attalla, Ala. Self-oiling bobbing gear. 1,715,536; June 4.
- Crowe, John J., Westfield, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Torch apparatus. 1,718,192; June 18.
- Crowe, John M., assignor to The Crowe Manufacturing Corporation, Covington, Ky. Portable saw. 1,701,948; Feb. 12.
- Crowe, John M., Covington, Ky., assignor to The Crowe Manufacturing Corporation, Cincinnati, Ohio. Portable power handsaw. 1,740,074; Dec. 17.
- Crowe Manufacturing Corporation, The. (See Crowe, John M., assignor.)
- Crowe, Paul L., Baltimore, Md. Electrically-driven coal pulverizer and fire feeder. 1,733,683; Oct. 29.
- Crowe, Paul L., Baltimore, Md. Peripheral motor machine. 1,701,443; Feb. 5.
- Crowe, Thomas B. (See Mills, L. D., and Crowe.)
- Crowell, Alvin B. (See Crowell, Erd V. and A. B.)
- Crowell, Alvin B., and F. S. Bowser, El Dorado, Ark. Automatic vacuum-sealing device. 1,708,261; Apr. 9.
- Crowell, Alvin B., and D. G. Lorraine, Dallas, Tex., assignors of one-third to E. V. Crowell, Los Angeles, Calif. Swab. 1,715,121; May 28.
- Crowell, Benjamin E. (See Crowell, William J., jr., assignor.)
- Crowell, Benjamin E., Media, Pa. Apparatus for manufacturing reinforced sheathing. 1,728,928; Sept. 24.
- Crowell, Erd V. (See Crowell, A. B., and Lorraine, assignors.)
- Crowell, Erd V., Los Angeles, Calif. Packer for combined tubing catchers and anchors. 1,699,050; Jan. 15.
- Crowell, Erd V., Los Angeles, Calif. Tubing anchor. 1,699,051; Jan. 15.
- Crowell, Erd V., Los Angeles, Calif. Tubing bleeder. 1,699,052; Jan. 15.
- Crowell, Erd V., Los Angeles, Calif. Tubing bleeder. 1,704,383; Mar. 5.
- Crowell, Erd V., Los Angeles, Calif., and A. B. Crowell, Dallas, Tex.; said Erd V. Crowell assignor to said A. B. Crowell. Method and apparatus for protecting wells. 1,712,029; May 7.
- Crowell, Erd V., Los Angeles, Calif., assignor of one-half to The Guberson Corporation, Dallas, Tex. Tubing oil saver. 1,721,806; July 23.
- Crowell, Erd V., Los Angeles, Calif. Well cementing. 1,732,791; Oct. 22.
- Crowell, John H., Tisbury, Mass. Box holder and opener. 1,711,225; Apr. 30.
- Crowell, Kenneth H., Burlington, Iowa. Biscuit box. 1,718,277; June 25.
- Crowell, William B. (See Shonnard, H. W., and Crowell.)
- Crowell, William B., New York, N. Y., and C. W. Bassett, Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Controlling the movements of doors. 1,714,160; May 21.
- Crowell, William D. (See Fain, B. L., and Crowell.)
- Crowell, William D., St. Louis, Mo. Ventilating means for vehicle bodies. 1,741,502; Dec. 31.
- Crowell, William J., jr., Wyncote, assignor to B. E. Crowell, Media, Pa. Apparatus for making reinforced sheathing. 1,728,927; Sept. 24.
- Crowley, Arthur J., Sulphur, Nev., and C. S. Haley, San Francisco, Calif., assignors to Humboldt Sulphur Company, Sulphur, Nev. Method and apparatus for atomizing sulphur. 1,718,334; June 25.



- Crowley, Arthur J., assignor to Humboldt Sulphur Company, Sulphur, Nev. Extracting sulphur. 1,729,246; Sept. 24.
- Crowley, Arthur J., assignor to Humboldt Sulphur Company, Sulphur, Nev. Filtering sulphur. 1,731,562; Oct. 15.
- Crowley, Arthur J., assignor to Humboldt Sulphur Company, Sulphur, Nev. Method and apparatus for extracting sulphur. 1,731,563; Oct. 15.
- Crowley, Daniel J., Waltham, Mass., assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Artificial tooth. 1,713,267; May 14.
- Crowley, Henry L., East Orange, N. J., assignor to Isolant Company of America, Inc. Molding ceramic materials. 1,699,502; Jan. 15.
- Crowley, Joseph P., Toledo, Ohio. Process and machine for die casting. 1,708,011; Apr. 9.
- Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Feeding abrasives to grinding machines. 1,724,259; Aug. 13.
- Crowley, Joseph P., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Apparatus for polishing plate glass. 1,733,295; Oct. 29.
- Crowley, Joseph P., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Apparatus for surfacing plate glass. 1,735,599; Nov. 12.
- Crowley, Joseph P., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Abrasive-feeding system for glass-grinding machines. 1,735,600; Nov. 12.
- Crowley, Joseph P., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Diaphragm valve. 1,740,004; Dec. 17.
- Crowley, Joseph P., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Grinding plate glass. 1,740,005; Dec. 17.
- Crowley, Joseph P., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Apparatus for surfacing sheet glass. 1,740,006; Dec. 17.
- Crowley, R. E. (See Lund, Edwin H., assignor.)
- Crowley, Timothy F., Brooklyn, N. Y. Blade holder. 1,727,160; Sept. 3.
- Crown Cork & Seal Company. (See Huntley, George J., assignor.)
- Crown Cork & Seal Company, The. (See Irwin, Henry J., assignor.)
- Crown Cork & Seal Company. (See McManus, Charles E., assignor.)
- Crown Cork & Seal Company. (See Waitkus, Vincent, assignor.)
- Crown Cork and Seal Company. (See Warth, Albin H., assignor.)
- Crown Fruit & Extract Co. (See Jagenburg, Eugene R., assignor.)
- Crown Lock Company. (See Croning, Johannes, assignor.)
- Crown Willamette Paper Company. (See Duvall, James, assignor.)
- Crownshaw, Cecil J. T., and W. J. S. Naunton, assignors to British Dyestuffs Corporation Limited, Manchester England. Manufacture of metallic xanthates. 1,740,805; Dec. 24.
- Crowther, David, Minneapolis, Minn. Sterilizing. 1,728,333; Sept. 17.
- Crowther, David, Minneapolis, Minn. Sterilizing apparatus. 1,728,334; Sept. 17.
- Crozemarie, Marcelin. (See Malvos, R., and Crozemarie.)
- Crozier, Clarence E., Des Moines, Iowa. Floor construction. 1,700,609; Jan. 29.
- Crozier, Florence S., New York, N. Y. Concrete wall and structure. 1,709,778; Apr. 16.
- Crozier, Nellie G., Lebanon, N. H. Hospital bag. 1,698,085; Jan. 8.
- Crozier, Robert H., London, England. Vertical retort for use in the distillation of shale and like materials. 1,729,418; Sept. 24.
- Crucet, Joseph M., assignor to J. R. Palmenberg's Sons, Inc., New York, N. Y. Mirror or similar article. Des. 77,674; Feb. 12.
- Crucet, Joseph M., assignor to J. R. Palmenberg's Sons, Inc., New York, N. Y. Curtain rod. 1,719,924; July 9.
- Crucible Steel Company of America. (See McIntosh, Frederick F., assignor.)
- Cruden, George W., Freeport, assignor to A. G. Spalding & Bros., New York, N. Y. Athletic garment. 1,698,012; Jan. 8.
- Cruss, George H., Rochester, N. Y., assignor to American Auto Lamp Co., Inc. Smoker's receptacle. 1,719,925; July 9.
- Cruckshank, Graham, Trail, British Columbia, Canada, assignor, by mesne assignments, to Genter Thickener Company. Filtering and thickening mixtures. 1,734,999; Nov. 12.
- Crull, Harold L., Tulsa, Okla. Wire-line equalizer. 1,724,911; Aug. 20.
- Crumlick, Henry E., Dundalk, Baltimore, Md. Mold for making frozen confections. 1,697,051; Jan. 1.
- Crump, Ellen B. P., Nitta Yuma, Miss. Handkerchief vanity and powder-puff holder. Re17,472; Oct. 29.
- Crump, Frank H., Los Angeles, Calif. Loose-leaf binder. 1,710,450; Apr. 23.
- Crumpton, Thomas E. D., San Gabriel, Calif. Cement shoe for oil wells. 1,721,107; July 16.
- Crumrine, Frank, Boynton, Okla. Heat-regulating device. 1,729,504; Sept. 24.
- Crumrine, Kennedy H. (See Furlong, W. G., and Crumrine.)
- Crupi, Frank J., Brooklyn, N. Y., assignor to Behr-Manning Corporation. Waterproof abrasive fabric. Re 17,491; Nov. 19.
- Cruse, Henry, Hyde, England. Steam superheater. 1,708,054; Apr. 9.
- Cruver, Curtis L., Oak Park, Ill. Advertising or display device. 1,727,026; Sept. 3.
- Crystal Chemical Company, The. (See Picker, Sidney, assignor.)
- Crystal Oil Burner Corp. (See Brown, John M., assignor.)
- Crystal Springs Bleachery Co. (See Yates, Arthur E., assignor.)
- Crystal Waxing Company. (See Ranck, Zeiber W., assignor.)
- Csapayi, Michael, and R. Curda, Vienna, Austria. Fuel-supply apparatus. 1,708,535; Apr. 9.
- Cubberley, Warner L., Washington, D. C. Support for vertical files. 1,725,702; Aug. 20.
- Cubberley, Warner L., Washington, D. C. File-cabinet construction. 1,739,545; Dec. 17.
- Cubberley, Warner L., Washington, D. C., assignor to Bennington Wax Paper Company, Bennington, Vt. Envelope for wax paper. 1,737,645; Dec. 3.
- Cubitt, Archibald S., and G. K. Jensen, London, England. Seating indicator for cinematograph theaters and the like. 1,724,912; Aug. 20.
- Cuccio, Joe. (See Calabrese, Vincent, assignor.)
- Cucolo, Gerardo G., Waterbury, Conn. Stake for holding concrete forms. 1,741,829; Dec. 31.
- Cudahy Brothers Company. (See Hoy, Frank H., assignor.)
- Cudahy, Lawrence J., assignor to Shaw-Crane-Putnam Machine Co. Inc., Muskegon, Mich. Holst brake. 1,728,594; Sept. 17.
- Cuddihy, Edward, Tooele, Utah. Belt conveyer. 1,705,558; Mar. 19.
- Cude, Harold E. (See Reel, J. H., and Cude.)
- Cude, Harold E. (See Rose, R. P., and Cude.)
- Cuel, Marcel, assignor to Societe du Vaporisateur le Frison, Paris, France. Atomizer. 1,737,299; Nov. 26.
- Cuénod, Fernand, Liege, Belgium. Foldable sled. 1,715,817; June 4.
- Cuevas, Juan A., New York, N. Y. Refillable shaving brush. 1,716,211; June 4.
- Cuff, James E., assignor to American Flyer Mfg. Co., Chicago, Ill. Tender for toy locomotives. Des. 80,168; Dec. 24.
- Cuffe, Frederick W., assignor to The W. J. Loth Stove Company, Waynesboro, Va. Surface-unit terminal. 1,720,512; July 9.
- Cuffe, Frederick W., assignor to The W. J. Loth Stove Company, Waynesboro, Va. Oven construction. 1,728,108; Sept. 10.
- Cugley, George, assignor to The Buckeye Incubator Company, Springfield, Ohio. Thermometer for incubators. 1,704,559; Mar. 5.
- Culbertson, Ernest C. (See Hall, R. R., and Culbertson.)
- Culbreath, David C., assignor to W. E. Randall and C. P. McFarland, Los Angeles, Calif. Coin-controlled vending machine. 1,706,657; Mar. 26.
- Cullen, George T., et al. (See Dalrymple, William P., assignor.)
- Cullen, John T., jr., Clinton, Iowa. Steam generator. 1,740,337; Dec. 17.
- Cullerton, Patrick J., assignor to Electric Holding Corporation, Chicago, Ill. Dog-racing apparatus. 1,712,379; May 7.
- Cullinan, Thomas F., Providence, R. I. Bracket. 1,704,883; Mar. 12.
- Cullinan, Thomas F., Providence, R. I. Truck. 1,704,884; Mar. 12.
- Cullinane, John, et al. (See Anderson, William, assignor.)
- Cullman, Otto, Chicago, Ill. Electric low-speed unit. 1,739,826; Dec. 17.
- Culmann, Julius, Rosebank, and E. Ahrens, Stapleton, assignors to G. Siegle Corporation of America, Inc., New York, N. Y. Nonpoisonous coloring matters for cosmetics. 1,702,227; Feb. 12.
- Culotta, Frank, Melrose Park, Ill. Envelope. 1,720,721; July 16.
- Culp, William E., Monon, Ind. Can lifter. 1,716,849; June 11.
- Culp, William E., Monon, Ind. Jar lifter. 1,731,524; Oct. 15.
- Culver, Alice W., Hampton Park, Mo. Hair-waving device. 1,710,968; Apr. 30.
- Culver, Ansel R., Bridgeport, Conn., assignor to J. B. Hayes, New York, N. Y. Retaining clip for automobile headlight indicators. 1,696,904; Jan. 1.
- Culver, Charles A., Northfield, Minn., assignor to Wired Radio, Inc., New York, N. Y. Modulation system. 1,710,015; Apr. 23.
- Culver, Edward. (See Watson, F. B., and Culver.)
- Culver, Otton G. (See Haman, G. W., and Culver.)
- Culver, Stearns Manufacturing Company. (See Larava, Frank L., assignor.)
- Cumfer, Harry A., Chicago, Ill. Making corrugated board. 1,709,934; Apr. 23.
- Cunmer, Frederick H., Los Angeles, Calif. Dust charger for road plants. 1,721,206; July 16.
- Cummer, Frederick H., Los Angeles, Calif. Mixer for road materials. 1,741,013; Dec. 24.
- Cumming, B., trustee. (See Kranz, Frederick W., assignor.)



- Cummings, John J., Boston, Mass. Trolley. 1,731,737; Oct. 15.
- Cummings Car and Coach Company. (See Cummings, W. J., and Adsit, assignors.)
- Cummings, Charles D., Tully, N. Y., assignor of twenty-five per cent to L. E. Fuller, Syracuse, N. Y., and forty-nine per cent to A. F. Fuller and C. A. Allen, Portsmouth, N. H. Attachment for hammers. 1,737,646; Dec. 3.
- Cummings, Charles D., Tully, assignor of twenty-five per cent to L. E. Fuller, Syracuse, and forty-nine per cent to A. F. Fuller and C. A. Allen, Portsmouth, N. Y. Claw hammer. 1,737,647; Dec. 3.
- Cummings, Earle W., assignor of one-half to Santa Barbara Lumber Company, Santa Barbara, Calif. Folding bench structure. 1,724,457; Aug. 13.
- Cummings, Edward N., assignor to G. W. J. Murphy Company, Amesbury, Mass. Separable fastener. 1,733,650; Oct. 29.
- Cummings, George C., Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-speed telegraph repeater employing vibrating relays. 1,701,100; Feb. 5.
- Cummings, James D., Houston, Tex. Scraper attachment for tractors. 1,713,030; May 14.
- Cummings, James D., and R. R. Norris; said Norris assignor to W-K-M Company, Houston, Tex. Tractor attachment. 1,721,546; July 23.
- Cummings, Preston W., assignor to Barber-Colman Company, Rockford, Ill. Heddle-handling mechanism. 1,707,626; Apr. 2.
- Cummings, Ralph P., South Portland, Me. Apparatus for even piling sheet material. 1,715,993; June 4.
- Cummings, Ross. (See Pike, R. D., Steck, and Cummings.)
- Cummings, Roy H. (See Irwin, Bartley, assignor.)
- Cummings, Walter J., Chicago, Ill., and C. G. Adsit, Atlanta, Ga., assignors to Cummings Car and Coach Company, Chicago, Ill. Automotive vehicle. 1,732,461; Oct. 22.
- Cummins, Herbert L., assignor of one-half to J. Demozzi, Los Angeles, Calif. Tie clip. 1,724,642; Aug. 13.
- Cummins, Robert B., Kokomo, Ind. Protector switch. 1,740,225; Dec. 17.
- Cummins, Thomas K. (See Durfee, F. R., and Cummins.)
- Cummins, Thomas K., assignor to Northern Malleable Iron Company, St. Paul, Minn. Concrete insert. 1,722,241; July 23.
- Cummins, Thomas K., assignor to Northern Malleable Iron Company, St. Paul, Minn. Concrete insert. 1,722,242; July 23.
- Cummins, Thomas K., assignor to Northern Malleable Iron Company, St. Paul, Minn. Brake hanger bracket. 1,729,569; Sept. 24.
- Cumner, Arthur B., New York, N. Y. Fluid gun. 1,734,368; Nov. 5.
- Cundall, Powell & Mosher, Inc. (See Cherry, Lester A., assignor.)
- Cuniff, Harold S., assignor to Reid Murdoch & Co., Chicago, Ill. Factory-built structure. Des. 77,814; Feb. 26.
- Cunneen, Daniel C., New Rochelle, N. Y. Pipe holder or support. 1,709,898; Apr. 23.
- Cunniff, Bernard, New York, and N. Lee, Forest Hills, assignors to Colloidal Equipment Corporation, New York, N. Y. Disintegrating machine. 1,697,052; Jan. 1.
- Cunniff, Edward A., assignor to Bigelow-Hartford Carpet Company, Thompsonville, Conn. Pile-fabric edge-trimming machine. 1,697,828; Jan. 1.
- Cunniff, Edward A., assignor to Bigelow-Hartford Carpet Company, Thompsonville, Conn. Needle-loom stop motion. 1,729,570; Sept. 24.
- Cunniff, John V., and J. A. Darsie, Los Angeles, Calif.; said Darsie assignor to said Cunniff. Headlight for motor vehicles. 1,740,007; Dec. 17.
- Cunningham, Alexander, Stewarton, Scotland. Thread-cutting apparatus. 1,720,209; July 9.
- Cunningham, Arthur B., assignor to Republic Flow Meters Company, Chicago, Ill. Gas analyzer. 1,719,593; July 2.
- Cunningham, Arthur J., Utica, N. Y. Drier for photographic prints. 1,739,505; Dec. 17.
- Cunningham, C. A., Co. (See Cunningham, Charles A., assignor.)
- Cunningham, C. C., et al. (See Dwelle, Walter K., assignor.)
- Cunningham, Charles A., assignor to C. A. Cunningham Co., Boston, Mass. Belt terminal. 1,706,023; Mar. 19.
- Cunningham, Charles H., Oakland, Calif. Street lighting standard. Des. 77,533; Jan. 22.
- Cunningham, Cora, Marlinton, W. Va. Clothespin bag. 1,715,994; June 4.
- Cunningham, Downey C., Pittsburgh, Pa. Reversible necktie. 1,721,333; July 16.
- Cunningham, E. T. (See Camfield, Russell W., assignor.)
- Cunningham, Frank A., Williamsport, Pa. Combined cone and bottle server and fan. 1,702,199; Feb. 12.
- Cunningham, Frederick W. (See Hardy, A. C., and Cunningham.)
- Cunningham, Jack C., and W. S. Nelson, Pasadena, Calif. Automatic pressure-controlled valve. 1,709,119; Apr. 16.
- Cunningham, Jess B., assignor of one-half to F. P. Crow, Houston, Tex. Hammock. 1,732,154; Oct. 15.
- Cunraingham, John J., assignor of fifty-one per cent to M. G. Kopf, Dayton, Ohio. Cleaning polishing wheels and the like. 1,712,751; May 14.
- Cunningham, Katherine E., assignor to Associated Apparel Industries Chicago, Ill. Brassière. 1,718,033; June 18.
- Cunningham, Lewis L. (See Denison, F. S., and Cunningham.)
- Cunningham, Melville W., Chicago, Ill. Animal figure. Des. 73,921; July 9.
- Cunningham, Omer L. (See Ferguson, William T., assignor.)
- Cunningham, Orin D., assignor to P. C. Reilly, Indianapolis, Ind. Treatment of tar. 1,711,448; Apr. 30.
- Cunningham, Orin D., assignor to P. C. Reilly, Indianapolis, Ind. Treatment of pitch. 1,711,449; Apr. 30.
- Cunningham, Ray. (See Watkins, F. M., and Cunningham.)
- Cunningham, Roy H., assignor to The Reynolds Spring Company, Jackson, Mich. Adjustable cover plate for electric wall boxes. 1,697,848; Jan. 1.
- Cunningham, Roy H., assignor to The Reynolds Spring Company, Jackson, Mich. Electric switch. 1,704,176; Mar. 5.
- Cunningham, Roy H., assignor to The Reynolds Spring Company, Jackson, Mich. Attachment-plug-cap snubber. 1,721,207; July 16.
- Cunningham, Roy H., assignor to The Reynolds Spring Company, Jackson, Mich. Attachment plug for electric heating devices. 1,735,731; Nov. 12.
- Cunningham Springless Shade Company. (See Daniel, Cecil A., assignor.)
- Cuno, Charles H., assignor to The Cuno Engineering Corporation, Meriden, Conn. Ash receiver. 1,712,450; May 7.
- Cuno, Charles H., assignor to The Cuno Engineering Corporation, Meriden, Conn. Attachment for cigar lighters, trouble lamps, etc. 1,723,645; Aug. 6.
- Cuno Engineering Corporation, The. (See Cuno, Charles H., assignor.)
- Cuno Engineering Corporation, The. (See Wolfson, Sidney L., assignor.)
- Cuno Engineering Corporation, The. (See Wolfson, S. L., and Schoen, assignors.)
- Cupples Company. (See Fleischli, J. A., and Kountzman, assignors.)
- Cupples Company, Manufacturers. (See Sheldon, Dwight M., assignor.)
- Curd, Frederick. (See Mines, Henry M., assignor.)
- Curda, Richard. (See Csapayi, M., and Curda.)
- Curello, John J., New Haven, Conn., assignor to The G. & O. Manufacturing Company. Radiator. 1,725,570; Aug. 20.
- Curli, Rena N. (See Mansfield, Orrin D., assignor.)
- Curlee, Guy, Sterling, Colo. Side-dump vehicle bed. 1,721,616; July 23.
- Curlee, Jasper N., assignor of one-half to H. Scher, Little Rock, Ark. Universal joint. 1,741,099; Dec. 24.
- Curley, John J., Brockton, Mass. Rotatable connector for vehicle direction indication. 1,712,295; May 7.
- Curley, Walter J., et al. (See Stebler, William J., assignor.)
- Curly Macaroni Mould Co. (See Lubrano, Giuseppe, assignor.)
- Curme, Henry R., Clendenin, W. Va., assignor to Carbide & Carbon Chemicals Corp. Partial oxidation of gaseous hydrocarbons. 1,729,711; Oct. 1.
- Curran, Frank J., New York, N. Y., assignor to Steam Production Corporation. Furnace. 1,717,667; June 18.
- Curran, Frank M. (See Meyercood, G. R., and Curran.)
- Curran, Frank M., Grand Rapids, Mich., assignor to Has-kelite Manufacturing Corporation. Wall and making the same. 1,711,471; Apr. 30.
- Curran, John, New York, N. Y. Striping device. 1,697,756; Jan. 1.
- Curran, Joseph S., assignor of one-half to A. E. Goodby, Providence, R. I. Differential mechanism. 1,697,457; Jan. 1.
- Curran, Arthur J., trustee. (See Nelson, George W.)
- Curran, Edward J., West Haven, Conn. Socket casing. 1,728,666; Sept. 17.
- Curran, Vananches H., Wilmington, Del. Core-molding machine. 1,741,503; Dec. 31.
- Currie, Carl C., assignor of one-half to J. J. Currie, Topeka, Kans. Lubricating mechanism. 1,712,381; May 7.
- Currie, Clare H., Webster City, assignor to Plymouth Clay Products Co., Fort Dodge, Iowa. Filter pipe for sewage-treatment tanks. 1,715,537; June 4.
- Currie, Donald. (See Currie, Dugald and D.)
- Currie, Dugald, and D., Odebolt, Iowa. Corn harvesting and husking machine. 1,702,200; Feb. 12.
- Currie, Homer L., Toronto, Ontario, Canada. Smokejack. 1,712,422; May 7.
- Currie, John J. (See Currie, Carl C., assignor.)
- Currie, Lauchlin M., Lakewood, Ohio, assignor to National Carbon Company, Inc. Precooking paste in dry cells. 1,737,188; Nov. 26.
- Currie Manufacturing Company, The. (See Winnett, Willard N., assignor.)
- Currie, William E., Detroit, Mich. Cattle stanchion. 1,702,464; Feb. 19.
- Currie, William E., Lake Jovita, Fla. Cattle stanchion. 1,728,857; Sept. 17.
- Currier, Alfred M., Aberdeen, Wash. Saw-tooth-grinding machine. 1,698,909; Jan. 15.
- Currier, Arthur L., New Ipswich, N. H. Button-blank-cutting machine. 1,736,901; Nov. 26.
- Currier, Arthur L., New Ipswich, N. H. Chuck. 1,740,645; Dec. 24.
- Currier, Bernard P., and B. W. King, New York, N. Y., assignors to American Optical Company, Southbridge, Mass. Eye-examining instrument. 1,721,208; July 16.



- Currier, Charles H., Chicago, Ill. Drier. 1,716,304; June 4.
- Currier, Harry C., Minneapolis, Minn. Desk tablet. 1,738,139; Dec. 3.
- Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Multiple control. 1,728,596; Sept. 17.
- Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co., Inc., New York, N. Y. Flocked voile fabric. Des. 78,011; Mar. 19.
- Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co., Inc., New York, N. Y. Flocked voile fabric. Des. 78,382; Apr. 30.
- Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co., Inc., New York, N. Y. Flocked voile fabric. Des. 78,383; Apr. 30.
- Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co., Inc., New York, N. Y. Flocked voile fabric. Des. 78,384; Apr. 30.
- Currin, Bernard, Toledo, Ohio. Pocket lighter. 1,728,395; Sept. 17.
- Curry, B. V., trustee. (See Townner, Heber F., assignor.)
- Curry Handpiece Protector Company, The. (See Curry, Ward E., assignor.)
- Curry, Henry M., Jr., Pittsburgh, and L. Fiengan, Zelenople, assignors to The Premier Staybolt Company, Pittsburgh, Pa. Manufacture of stay bolts. 1,711,196; Apr. 30.
- Curry, Hugh C., et al. (See Bateman, William W., assignor.)
- Curry, John P. (See Foulder, Henry B., assignor.)
- Curry Landskiff Corporation. (See Curry, Manfred, assignor.)
- Curry, Malcolm, Scarsdale, N. Y. Advertising apparatus. 1,699,689; Jan. 22.
- Curry, Manfred, Munich, Germany, assignor to Curry Landskiff Corporation, New York, N. Y. Vehicle. 1,735,601; Nov. 12.
- Curry, Ralph R., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Making ductile high-silicon steel sheets. 1,739,126; Dec. 10.
- Curry, Ward E., Bradenton, assignor to The Curry Handpiece Protector Company, Sarasota, Fla. Sanitary protector for handpieces and the like. 1,742,061; Dec. 31.
- Curti, Carmine, New York, N. Y. Book-page indicator and retainer. 1,712,137; May 7.
- Curtice, Austin, Seattle, Wash. Physical-culture apparatus. 1,729,209; Sept. 24.
- Curtice, Jennie L., et al. (See Aud, William S., assignor.)
- Curtin, Francis R., Buffalo, N. Y. Mail handling or transfer apparatus. 1,721,987; July 23.
- Curtin, Leo P., Freehold, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Treating wood. 1,698,622; Jan. 8.
- Curtin, Leo P., Freehold, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Wood preservative. 1,722,323; July 30.
- Curtis, Arnold S., Marlboro, Mass. Making arch-support insoles. 1,704,656; Mar. 5.
- Curtis, Arnold S., Marlboro, Mass. Arch-supporting shoe. 1,704,657; Mar. 5.
- Curtis, Arthur R., Cleveland, Ohio. Mounting for gyratory shafts. 1,698,879; Jan. 15.
- Curtis, Arthur R., Cleveland, Ohio. Belt drive. 1,704,532; Mar. 5.
- Curtis, Arthur R., Cleveland, Ohio. Washer. 1,728,667; Sept. 17.
- Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic relay. 1,700,470; Jan. 29.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Measuring instrument. 1,719,465; July 2.
- Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Duplex telegraph system for loaded cables. 1,724,994; Aug. 20.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine-carrier telegraphy. 1,733,583; Oct. 29.
- Curtis, Austen M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine-cable construction. 1,738,234; Dec. 3.
- Curtis, Charles G., New York, N. Y. Two-cycle internal-combustion engine. 1,734,459; Nov. 5.
- Curtis Companies. (See Madsen, Sern, assignor.)
- Curtis Companies, Inc. (See Purvis, Harold, assignor.)
- Curtis Companies, Incorporated. (See Beil, Clarence A., assignor.)
- Curtis Gas Engine Corporation. (See Newton, Earle R., assignor.)
- Curtis, George L., Pocatello, Idaho. Foot scraper. 1,703,262; Feb. 26.
- Curtis, George W., Milwaukee, Wis., assignor to The Timken Roller Bearing Company, Canton, Ohio. Dredge head. 1,696,938; Jan. 1.
- Curtis, George W., Milwaukee, Wis., assignor to The Timken Roller Bearing Company, Canton, Ohio. Double sheave wheel. 1,735,602; Nov. 12.
- Curtis, H. D., McConnellsville, Ohio. Bank protector. 1,709,522; Apr. 16.
- Curtis, Harry B., Huntington, assignor to Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Display stand. 1,711,922; May 7.
- Curtis, Harry D., Oshkosh, Wis., assignor to J. D. G., and R. Wandscheer, Sioux Center, Iowa. Snow remover. Re17,297; May 21.
- Curtis, Harry D., Oshkosh, Wis., assignor to D. Wandscheer, G. Wandscheer, J. Wandscheer, and B. Wandscheer, Sioux Center, Iowa. Snow remover. Re17,498; Nov. 19.
- Curtis, Harry H., Huntington Beach, Calif. Trailer coupling. 1,718,950; May 21.
- Curtis, Henry E., San Jose, assignor of one-half to J. H. Betts, Long Beach, Calif. Vehicle spring construction. 1,701,231; Feb. 5.
- Curtis, Henry E., San Jose, assignor of one-half to J. H. Betts, Long Beach, Calif. Internal-combustion engine. 1,722,517; July 30.
- Curtis, Howard R., Brawley, Calif. Valve tool. 1,734,420; Nov. 5.
- Curtis, James C., and J. B. Cook, Beckley, W. Va. Shade-bracket cord holder. 1,707,599; Apr. 2.
- Curtis, John F., Chicago, Ill., assignor to O. F. Jordan Company, East Chicago, Ind. Railroad spreader. 1,732,792; Oct. 22.
- Curtis, John F., Chicago, Ill., assignor to O. F. Jordan Company, East Chicago, Ind. Spray nozzle. 1,737,831; Dec. 3.
- Curtis, Leslie F., and J. F. Martin, assignors to American Bosch Magneto Corporation, Springfield, Mass. Ignition condenser. 1,726,543; Sept. 3.
- Curtis Manufacturing Company. (See Ackerman, Frank, assignor.)
- Curtis Manufacturing Company. (See Akerman, Frank, assignors.)
- Curtis Manufacturing Company. (See Steedman, Edwin H., assignor.)
- Curtis & Marble Machine Company. (See Marble, Edwin H., assignor.)
- Curtis-Martin Newspapers, Inc. (See Vickers, Abram R., assignor.)
- Curtis, Paul W., assignor to Tray Service Company, Dallas, Tex. Portable support device. 1,713,116; May 14.
- Curtis, Paul W., assignor to Tray Service Company, Dallas, Tex. Attachment for serving receptacles. 1,735,603; Nov. 12.
- Curtis, Rowland J., assignor to The Reeves Manufacturing Company, Dover, Ohio. Ear for bucket bail. 1,738,042; Dec. 3.
- Curtis, Thomas J., Los Angeles, Calif. Electrical water purifier. 1,702,767; Feb. 19.
- Curtis, Thomas S., assignor to The Vitrefrax Corporation, Huntington Park, Calif. Apparatus for making ceramic articles. 1,703,871; Mar. 5.
- Curtis, Thomas S., Huntington Park, assignor, by mesne assignments, to Pacific-Southwest Trust & Savings Bank, trustee, Los Angeles, Calif. Refractory composition and making same. 1,715,449; June 4.
- Curtis, Thomas S., Huntington Park, assignor to The Vitrefrax Company, Los Angeles, Calif. Refractory composition and making. 1,741,920; Dec. 31.
- Curtis, William, Windsor, Ontario, Canada. Scale fulcrum. 1,718,534; June 25.
- Curtiss Aeroplane & Motor Company. (See Beisel, Rex B., assignor.)
- Curtiss Aeroplane & Motor Company. (See Henriksen, Knut, assignor.)
- Curtiss Aeroplane & Motor Co. (See Mummert, Harvey C., assignor.)
- Curtiss Aeroplane & Motor Company. (See Nutt, Arthur, assignor.)
- Curtiss Aeroplane & Motor Company. (See Page, G. A., Jr., and Russell, assignors.)
- Curtiss Aeroplane & Motor Company. (See Page, George A., Jr., assignor.)
- Curtiss Aeroplane & Motor Company. (See Walt, William, Jr., assignor.)
- Curtiss-Caproni Corporation. (See Caproni, Gianni, assignor.)
- Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Toaster. Des. 78,504; May 14.
- Curtiss, Howard C., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Door-closing mechanism for dry-cleaning washing machines. 1,713,691; May 21.
- Curtiss, Nathaniel H., assignor to Mechanical Rubber Company, Cleveland, Ohio. Counting mechanism. 1,715,995; June 4.
- Cusenza, Joseph, Detroit, Mich. Furnace attachment. 1,697,855; Jan. 8.
- Cushing, Benjamin, Norwood, Mass. End cap for tubular packages. 1,739,291; Dec. 10.
- Cushing, Daniel, Cambridge, Mass., assignor to The Barrett Company. Melting and refining of nonferrous metals. Re17,347; July 2.
- Cushing, Daniel, Lowell, Mass. Metallurgical furnace. 1,703,337; Feb. 26.
- Cushing, Frank H., Louisville, Ky. Switch-control mechanism. 1,718,895; June 25.
- Cushing, Frank J., et al. (See Wagener, Hans, assignor.)
- Cushing, George H., assignor to Cushing Lamp Incorporated, Washington, D. C. Headlight. 1,736,902; Nov. 26.
- Cushing, Herbert C., Rabb, Mont. Coffee meter. 1,724,751; Aug. 13.
- Cushing Lamp Incorporated. (See Cushing, George H., assignor.)



- Cushing, Michael E., Alabama City, Ala. Lining for hot-gas-carrying conduits. 1,733,403; Oct. 29.
- Cushman, Allerton S., Washington, D. C., assignor to The American Rolling Mill Company, Middletown, Ohio. Protecting metal culverts. 1,735,732; Nov. 12.
- Cushman, Delbert W., Fremont, Ohio. Canopy for tractors. 1,716,212; June 4.
- Cushman, Ella M., Ithaca, N. Y. Sewing cabinet. 1,700,924; Feb. 5.
- Cushman, H. T., Mfg. Co. (See Barton, Archie, assignor.)
- Cushman, H. T., Mfg. Co. (See Cushman, William C. H., assignor.)
- Cushman, Leslie S., Eden, Calif. Cultivating tractor. 1,719,594; July 2.
- Cushman, Orville E., and T. W. Doell, Berkeley, assignors, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Soaps from sulphated mineral oil acid sludge and making same. 1,718,335; June 25.
- Cushman, Solomon F. (See Morrill, C. H., and Cushman.)
- Cushman, William C. H., assignor to H. T. Cushman Mfg. Co., North Bennington, Vt. Combined table and sewing stand. Des. 78,270; Apr. 16.
- Cushwa, Charles B., Youngstown, Ohio. Method and apparatus for treating liquids. 1,698,537; Jan. 8.
- Cusick, George M., Grand Rapids, Mich. Ignition timer. 1,697,522; Jan. 1.
- Cusick, Mary E., Pittsburgh, Pa. Shoe-display stand. Des. 79,956; Nov. 26.
- Cusin, Maurice, Decines, and P. A. A. Chevalet, Lux; said Cusin assignor to Societe Lyonnaise de Soie Artificielle, Lyon, France. Manufacture of cellulose products. 1,722,202; July 23.
- Custenborder, John M., Peoria, Ill. Hydraulic brake cylinder. 1,701,297; Feb. 5.
- Custer, Willard R., Washington, D. C. Aeroplane. 1,708,720; Apr. 9.
- Custers, Peter W., Munich-Gladbach, Germany. Machine for moistening and cooling fabrics. 1,715,818; June 4.
- Cuthbert, Joseph W., Altadena, Calif., assignor to Rotortite Corporation, Chicago, Ill. Rotary pump or compressor. 1,718,535; June 25.
- Cuthbert, Joseph W., La Canada, Calif., assignor to Rotortite Corporation, Chicago, Ill. Refrigerating machine and method of refrigeration. 1,732,039; Oct. 15.
- Cutler, David A., Wollaston, assignor to Alfred Hale Rubber Company, Atlantic, Mass. Combined sole and heel. Des. 79,583; Oct. 15.
- Cutler, Dwight P., Rockford, Ill. Crank-case heater. 1,723,331; Aug. 6.
- Cutler, Frank W., assignor to Cutler Manufacturing Company, Portland, Oreg. Drier. 1,699,880; Jan. 22.
- Cutler, Frank W., assignor to Cutler Manufacturing Company, Portland, Oreg. Sorting table. 1,711,834; May 7.
- Cutler-Hammer, Inc. (See Addicks, Walter E., assignor.)
- Cutler-Hammer Inc. (See Evans, Clarence T., assignor.)
- Cutler-Hammer Inc. (See Fleet, A. H., and Hibbard, assignors.)
- Cutler-Hammer, Inc. (See Harwood, Paisley B., assignor.)
- Cutler-Hammer, Inc. (See Hodgson, Howard E., assignor.)
- Cutler-Hammer Inc. (See Hunter, Richard B., assignor.)
- Cutler-Hammer, Inc. (See Hutton, Ulric O., assignor.)
- Cutler-Hammer, Inc. (See Kuhn, Clarence W., assignor.)
- Cutler-Hammer Inc. (See Kurath, Frank, assignor.)
- Cutler-Hammer, Inc. (See Lightfoot, Edwin N., assignor.)
- Cutler-Hammer, Inc. (See Lockett, Ralph G., assignor.)
- Cutler-Hammer, Inc. (See Meuer, G. J., and Fleet, assignors.)
- Cutler-Hammer Inc. (See Meuer, George J., assignor.)
- Cutler-Hammer Inc. (See Moore, Edward H., assignor.)
- Cutler-Hammer Inc. (See Mortensen, Niels L., assignor.)
- Cutler-Hammer, Inc. (See Seeger, Edwin W., assignor.)
- Cutler-Hammer Inc. (See Stevens, W. C., and Meuer, assignors.)
- Cutler-Hammer Inc. (See Stevens, William C., assignor.)
- Cutler-Hammer, Inc. (See Tregoning, William C., assignor.)
- Cutler-Hammer, Inc. (See Wilson, William C., assignor.)
- Cutler-Hammer Manufacturing Company. (See Dean, Peter P., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Meuer, George J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Packard, H. N., and Schmidt, assignors.)
- Cutler-Hammer Mfg. Co., The. (See Pinkerton, Clarence S., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Radley, Guy R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Schmidt, Edwin X., assignor.)
- Cutler, Henry H., Brookline, Mass. Force-feed charge-forming device. 1,721,209; July 16.
- Cutler, John J., Milwaukee, Wis. Ironing board. 1,707,114; Mar. 26.
- Cutler Manufacturing Company. (See Cutler, Frank W., assignor.)
- Cutler, Samuel R., administrator. (See Furber, Frederick M.)
- Cutler, William C., Glendale, assignor, by mesne assignments, to Selective Automatic Manufacturing Corporation, Los Angeles, Calif. Vending apparatus. 1,697,306; Jan. 1.
- Cutler, William C., Glendale, assignor, by mesne assignments, to Selective Automatic Manufacturing Corporation, Los Angeles, Calif. Coin tester. 1,702,559; Feb. 19.
- Cutshaw, Daniel M., Greeneville, Tenn. Dustproof valve structure for pneumatic wheels. 1,703,263; Feb. 26.
- Cutter, Scott C., Oswego, Ill. Insulator. 1,721,657; July 23.
- Cwik, John, Chicago, Ill. Wheelbarrow. 1,735,527; Nov. 12.
- Cycle Company, The. (See Blomfield, A. L., Harner, and Coe, assignors.)
- Cycle Company, The. (See Kurie, Charles W., jr., assignor.)
- Cyclo Corporation. (See Honig, Frank, assignor.)
- Cyclone Manufacturing Company, The. (See Speicher, D. E., and Faust, assignors.)
- Cynthia Mills. (See Barry John L., assignor.)
- Czapek, Emil, and R. Weingand, Momlitz, near Walsrode, Germany. Manufacture of sheetlike articles and the like from cellulose. 1,740,226; Dec. 17.
- Czapek, Emil, and R. Weingand, Momlitz, near Walsrode, Germany. Cellulose precipitating agent. 1,740,227; Dec. 17.
- Czapek, Stanley, Detroit, Mich., assignor to Radiant Specialty Co. Lighting fixture. Des. 78,807; June 25.
- Czarny, Martin, Roselle, and F. C. Frolander, Elizabeth, N. J. Method and apparatus for rectifying lubricating oil. 1,717,096; June 11.
- Czech, Henry O., Chicago, Ill. Lamp. Des. 78,505; May 14.
- Czechoslovak firm C. P. Goerz Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goerz Opticky Ustav. (See Pteschenig, K., and Schier, assignors.)
- Czischke, John F., Chicago, Ill. Ladder. 1,729,033; Sept. 24.
- Czorkowski, John, St. Johns, Quebec, assignor, to Vanderweghe Limited, Montreal, Canada. Fur-dressing machine. 1,702,465; Feb. 19.
- D. R. S. Co. Inc. (See Offutt, Lawrence H., assignor.)
- Daae, Reinhardt, Youngstown, Ohio. Gas producer. 1,735,380; Nov. 12.
- Daake, Herman A., Rochester, Ind. Statuette. 77,640; Feb. 5.
- Dabney, Charles L., San Antonio, Tex. Ventilating awning. 1,729,928; Oct. 1.
- Dabrasky, August, Washington, D. C., and G. W. Beatty, Decatur, Ill. Mount for guns. 1,724,183; Aug. 13.
- Dabrohua, Castro M., and W. E. Roberts, Chicago, Ill. Poster-display device. 1,699,735; Jan. 22.
- Dabrowski, Eugene, St. James, N. Y. Automatically-closing door for banks. 1,699,281; Jan. 15.
- Dabrowski, Eugene, St. James, N. Y. Water-walking device. 1,711,307; Apr. 30.
- Dabrowski, Eugene, St. James, N. Y. Collapsible rake. 1,740,286; Dec. 17.
- Dachlauer, Karl, and C. Thomsen, Hochst-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Water-soluble condensation product and making same. 1,732,503; Oct. 22.
- Da Costa, Arthur V., Providence, R. I. Tone-producing toy. 1,709,841; Apr. 23.
- Da Costa, Robert C., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Coil winding. 1,726,100; Aug. 27.
- Dady, Arthur O., and L. R. Teeple, Portland, Oreg. Electrically-operated valve. 1,700,029; Jan. 22.
- Daesen, John R., Peru, and L. E. Wemple, Chicago, assignors to Illinois Zinc Company, Chicago, Ill. Apparatus for pouring molten metal. 1,736,188; Nov. 19.
- Dagel, Thomas E., Edgeley, N. Dak. Combination snow-plow and sweeper. 1,741,360; Dec. 31.
- Dahl, John. (See Hellmann, L. F., and Dahl.)
- Dahl, Sigurd M., White Plains, N. Y. Summer top for automobiles. 1,733,007; Oct. 22.
- Dahl, Thure, New York, N. Y. Lighting fixture. Des. 77,815; Feb. 26.
- Dahl, Tom K., deceased, Minneapolis, Minn.; K. A. Erdahl, administratrix. Combination tool. 1,709,310; Apr. 16.
- Dahlberg, Oscar A., Minneapolis, Minn. Creeper. 1,721,508; July 23.
- Dahlgren, Klaus E. (See Dahlgren, Knut A. and K. E.)
- Dahlgren, Knut A. and K. E., Turlock, Calif. Auxiliary link. 1,726,654; Sept. 3.
- Dahlke, Benjamin A., Buffalo, N. Y. Envelope. 1,714,349; May 21.
- Dahllof, Ture W., New Rochelle, N. Y., assignor, by mesne assignments, to Hobart Manufacturing Company, Troy, Ohio. Liquid distributor and bearing. 1,723,014; Aug. 6.
- Dahlstrom, Ernst R., assignor to Aktiebolaget Formator, Stockholm, Sweden. Machine for shaping a tobacco mass. 1,716,117; June 4.
- Dahlstrom, Frank P., assignor to Morgan Construction Company, Worcester, Mass. Automatic direction-controlling mechanism. 1,697,757; Jan. 1.
- Dahlstrom, J. Ager. (See Resek, M., Rehmer, and Dahlstrom.)
- Dahlstrom, John A. (See Chadwick, L. S., Resek, and Dahlstrom.)
- Dahlstrom, John A. (See Resek, M., and Dahlstrom.)



- Dahlstrom, John F., Chicago, Ill. Casing for paint-brushes. 1,717,357; June 18.
- Dahlstrom Metallic Door Company. (See Dawson, Axel G., assignor.)
- Dahlstrom Metallic Door Company, The. (See Jacobson, Ludwib G., assignor.)
- Daigle, Oscar J., Algiers, La. Garment hanger. 1,697,719; Jan. 1.
- Daignas, Michel, Toul, France. Coating machine. 1,729,712; Oct. 1.
- Dail Steel Products Company. (See Palmer, George H., assignor.)
- Dailey, Frank L., assignor to Johnson & Johnson, New Brunswick, N. J. Dental cotton holder. 1,722,903; July 30.
- Dailey, Frank L., assignor to Johnson & Johnson, New Brunswick, N. J. Aseptically storing and dispensing surgical napkins. 1,730,126; Oct. 1.
- Dailey, Frank L., assignor to Johnson & Johnson, New Brunswick, N. J. Dental roll holders. 1,730,266; Oct. 1.
- Dailey, John A., and L. W. Gerth, Burlington, Iowa. Railroad grade crossing. Re17,239; Mar. 19.
- Dailey, John B., Detroit, Mich. Apparatus for heat treating. 1,697,811; Jan. 1.
- Dalley, John B., assignor to General Motors Corporation, Detroit, Mich. Grinding and polishing machine. 1,711,015; Apr. 30.
- Dailey, Robert W. (See Schneider, G. E., and Dailey.)
- Dailey, William B., East Orange, N. J. Making photographic paper, film, or the like. 1,699,349; Jan. 15.
- Daily, Francis Z., Ardmore, Pa. Telephone-dial lock. 1,717,147; June 11.
- Daimler-Benz Aktiengesellschaft. (See Porsche, Ferdinand, assignor.)
- Daimler-Benz Aktiengesellschaft. (See Schildknecht, Heinrich, assignor.)
- Daimler Company, The. (See Needle, G., and Lanchester, assignors.)
- Daimler, Karl, G. Balle, and F. Just, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparing fulling liquors and emulsions. 1,715,410; June 4.
- Dain Manufacturing Company. (See Bowers, Robert R., assignor.)
- Dain Manufacturing Company of Iowa. (See Murphy, H. G. and Gustison, assignors.)
- Dain Manufacturing Company of Iowa. (See Rutter, Alva E., assignor.)
- Dainos, Anthony W., New Orleans, La., Fountain brush. 1,718,117; June 18.
- Dairy Drink Company. (See North, Charles E., assignor.)
- Daisley, Robert H., Highland Park, assignor to Wilcox-Rich Corporation, Detroit, Mich. Tappet. 1,726,259; Aug. 27.
- Daisy Manufacturing Company. (See Lefever, Charles F., assignor.)
- Daisy Products, Inc., The. (See Lowe, Joseph N., assignor.)
- Daisy Products, Inc., The. (See Plass, Robert H., assignor.)
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Ball bearing. 1,699,325; Jan. 15.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Connector. 1,699,690; Jan. 22.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Turbine. 1,705,720; Mar. 19.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Generator drive for railroad cars and the like. 1,706,562; Mar. 26.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Generator drive for railroad cars and the like. 1,706,563; Mar. 26.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Connector. 1,714,590; May 28.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Ball bearing. 1,738,359; Dec. 3.
- Dake, Virgil H. (See Bartley, C. B., and Dake.)
- Dake, Walter M., and R. A. Walter, assignors of one-fifth to H. H. Semmes, Washington, D. C. System of mining. 1,699,098; Jan. 15.
- Dal Maso, Joseph, Washington, D. C. Plant support. 1,740,364; Dec. 17.
- Dalager, Sophus A., Glenwood, Minn. Power take-off. 1,726,386; Aug. 27.
- Daland, Elliot, Torresdale, assignor to Keystone Aircraft Corporation, Bristol, Pa. Landing gear for airplanes. 1,735,852; Nov. 19.
- D'Albay, Jacques T., Paris, assignor to Societe Anonyme: Etablissements Maurice Houdaille, Levallois-Perret, Seine, France. Friction shock absorber. 1,703,264; Feb. 26.
- Dalbey, James H., Elgin, Ill. Tire filler. 1,714,710; May 28.
- Dalcher, John T., Bayonne, N. J. Header for boilers. 1,717,371; June 18.
- Dale, Clarence R., assignor of one-third to L. C. Nielson, Los Angeles, and one-third to A. R. Maier, Torrance, Calif. Rotary friction coupling. 1,708,378; Apr. 9.
- Dale, George, Roselle Park, N. J. Hydraulic press. 1,708,012; Apr. 9.
- Dale, Robert B., Jamaica, assignor to W. W. Weitling, College Point, Long Island, N. Y. Rotary casting. 1,698,623; Jan. 8.
- Dale, Robert B., Jamaica, assignor to W. W. Weitling, trustee, College Point, Long Island, N. Y. Casting method and apparatus. 1,698,624; Jan. 8.
- Dale, Walter D. (See Larson, George A., assignor.)
- Daley, Michael T. (See Booty, Philip C. P., assignor.)
- Daley, Preston B., Cleveland, Ohio. Exercising and massaging apparatus. 1,713,499; May 14.
- Dalheimer, Walther, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Feeding mechanism. 1,728,109; Sept. 10.
- Dalin, David, and A. L. Senn, Seattle, Wash. Elevator. 1,736,877; Nov. 26.
- Dall, Louis A., Olmstead Falls, Ohio. Lathe or grinder attachment. 1,710,016; Apr. 23.
- Dallas Aeroplane Manufacturing Corporation. (See Martin, John M., assignor.)
- Dallas Foundry. (See Hurst, Charles, assignor.)
- Dalldorf, Lloyd. (See Swift, J. H., and Dalldorf.)
- Dallenbach, Walter, Zurich, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Vacuum-tight seal. 1,697,165; Jan. 1.
- Dalley, Donald F., Youngstown, Ohio. Bottle sealer. 1,721,210; July 16.
- Dalmas, Amedeus G., Oakland, Calif. Toothbrush. 1,736,996; Nov. 26.
- Dalo, John, assignor to A and Z Chain Company, Providence, R. I. Strap-extension device. 1,700,489; Jan. 29.
- Daloz, Jules G., Courbevoie, France. Commutator. 1,705,238; Mar. 12.
- Daloz, Jules G., Courbevoie, France. Electric mine lamp. 1,736,997; Nov. 26.
- Dalpra, Alex. (See Kallio, Edward, assignor.)
- Dalrymple, Philip W., Newton, Mass., assignor, by mesne assignments, to White Rock Mineral Springs Company, Waukesha, Wis. Machine for use in the manufacture of bottle caps. 1,721,659; July 23.
- Dalrymple, William P., Chicago, Ill. Temperature indication. 1,702,685; Feb. 19.
- Dalrymple, William P., Chicago, assignor to G. T. Cullen, River Forest, and J. P. Gordon, Chicago, Ill. Temperature indicator for automobile engines. 1,712,692; May 14.
- Dalton, George A., Highland Park, assignor to John Waldron Corporation, New Brunswick, N. J. Pulley block. 1,732,084; Oct. 15.
- Dalton, George A., and J. R. Dunham, Highland Park, N. J., assignors to Flexible Engineering Corporation, New York, N. Y. Gear. 1,697,720; Jan. 1.
- Dalton, Hubert, Stamford, Conn. Saw-table attachment for lathes. 1,702,499; Feb. 19.
- Dalton, Hubert, Stamford, Conn. Curtain holder. 1,741,504; Dec. 31.
- Dalton, Hubert, Stamford, Conn. Curtain holder. 1,741,505; Dec. 31.
- Dalton, Nelson W., Bath, assignor to Pequod Realty Corporation, New York, N. Y. Drier for agricultural products. 1,740,075; Dec. 17.
- Dalton, Raymond S., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper deflector. 1,706,843; Mar. 26.
- Dalton, William, Schenectady, N. Y., assignor to General Electric Company. Structural beam and making same. 1,708,753; Apr. 9.
- Daltroff, Ernest, Paris, France, assignor to Caron Corporation, New York, N. Y. Bottle. Des. 78,686; June 4.
- Daltroff, Ernest, Paris, France, assignor to Caron Corporation, New York, N. Y. Bottle. Des. 78,878; July 2.
- Daly, Charles L., Brockton, Mass. Shoe. Re17,191; Jan. 15.
- Daly, John F., et al. (See Kenworthy, Robert R., assignor.)
- Daly, Joseph P., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Intermittently-actuated mechanism. 1,710,298; Apr. 23.
- Daly, Raymond E., Homewood, Ill., assignor to American Maize-Products Company, Roby, Ind. Producing dextrose. 1,708,940; Apr. 16.
- Dalzen, William F., Detroit, Mich., assignor to Du-More Tap & Tool Company. Tap. 1,718,536; June 25.
- Dalziel, Robert J. (See Moorhead, Albert E., assignor.)
- Dam, Henry M. R., Brooklyn, N. Y., assignor to Premo Electric Corporation. Electric battery. 1,739,784; Dec. 17.
- Daman, Bert F., Chicago, Ill., assignor to The Vitrolite Company. Connecting means for walls. 1,732,190; Oct. 15.
- Dame, Lorenzo J., Portland, Oreg. Sidewalk door. 1,715,903; June 4.
- Damerell, Mark H., assignor to Wyman-Gordon Company, Worcester, Mass. Center-drilling machine. 1,700,668; Jan. 29.
- Damerell, Mark H., assignor to Wyman-Gordon Company, Worcester, Mass. Shaft-straightening machine. 1,722,841; July 30.
- Damm, Arvid G., Paris, France. Apparatus for transmitting and receiving telegraphic messages in code. 1,715,904; June 4.
- Damm, John, Brockton, Pa. Lock for emergency brake levers. 1,702,201; Feb. 12.
- Dammart, Charles E., Minneapolis, Minn. Envelope-making machine. 1,726,655; Sept. 3.
- Damme, Richard, Stettin, Germany. Stencil sheet. 1,719,926; July 9.



- Damon, John H., assignor to Plymouth Cordage Company, Plymouth, Mass. Curved-surface printing machine. 1,728,151; Sept. 10.
- D'Amore, Michael J., Milwaukee, Wis. Liquid-applying implement. 1,738,471; Dec. 3.
- Damuth, Erwin J., and W. S. Roux, assignors, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,725,854; Aug. 27.
- Dana, Alan S., Ansonia, Conn., assignor to The Kerite Insulated Wire and Cable Company. 1,724,565; Aug. 13.
- Dana, Duncan, Marblehead, Mass. Apparatus for burning fluid fuel. 1,714,903; May 28.
- Dana, Leslie, St. Louis, Mo., assignor to Charter Oak Stove & Range Company. Stove leg. 1,731,126; Oct. 8.
- Danab, Solomon, Burlington, N. J. Match and cigarette holder. 1,720,589; July 9.
- Danaher, Arthur P. (See Stephens, F. M., and Danaher.)
- Danberg, Fred W., Toledo, Ohio. Article-delivery mechanism. 1,708,664; Apr. 9.
- Dance, William H., Cambridge, Mass. Drier for sand, gravel, etc. 1,714,259; May 21.
- Danckwardt, Harriett, administratrix. (See Danckwardt, Paul.)
- Danckwardt, Paul, Alhambra, Calif. Converting solid carbon into liquid hydrocarbons. 1,730,997; Oct. 8.
- Danckwardt, Paul, deceased, La Junta, Colo. H. Danckwardt, administratrix. Obtaining hydrocarbons of low boiling points from hydrocarbons of high boiling points. 1,742,165; Dec. 31.
- Danckwardt, William J., Corning, Calif. Propeller guard. 1,735,675; Nov. 12.
- Danco, Leon A., Rockville Center, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Tray or similar article. Des. 78,012; Mar. 19.
- Danco, Leon A., Rockville Center, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Bottle or similar container. Des. 78,194; Apr. 9.
- Danco, Leon A., Rockville Center, N. Y., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Box or similar container. Des. 78,506; May 14.
- Danco, Léon A., Fairfield, assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Toilet box or similar container. Des. 80,169; Dec. 24.
- Dandliker, Rudolph, Chicago, Ill., assignor to The American Steel & Wire Company of New Jersey, Cleveland, Ohio. Fence-post clamp. 1,712,752; May 14.
- Danford, Rodney L., Middlebranch, Ohio. Rotary valve for internal-combustion engines. 1,702,816; Feb. 19.
- Danforth, George L., jr., assignor, by mesne assignments, to Open Hearth Combustion Company, Chicago, Ill. Furnace operation. 1,718,732; June 25.
- Dangel-Field Co. (See Field, Edward A., assignor.)
- Dani, Peter, West Middlesex, Pa. Shoe-sole clamp. 1,717,148; June 11.
- Daniek, Eugene, Portland, Oreg. Pepper or salt shaker. 1,700,350; Jan. 29.
- Daniel, Albert, New Rochelle, N. Y. Traffic signal. 1,719,394; July 2.
- Daniel, Allan P. (See Brennan, E. M., and Daniel.)
- Daniel, Cecil A., assignor to Cunningham Springless Shade Company, Greensboro, N. C. Curtain-shade roller. Re17,507; Nov. 26.
- Daniel, Earle H., Springfield, Ohio. Power lift for tractors. 1,735,422; Nov. 12.
- Daniel, John B., Texico, N. Mex. Pruning shears. 1,704,313; Mar. 5.
- Daniel, Joseph E. B., and E. Louthan, assignors to Western Blind & Screen Company, Los Angeles, Calif. Tilting-member assembly for venetian blinds. 1,727,699; Sept. 10.
- Daniel, Robert E., Birmingham, Ala., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Centrifugal casting machine. 1,701,530; Feb. 12.
- Daniel, Thomas A., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Extrusion press. 1,703,300; Feb. 26.
- Daniel, Thomas A., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for welding. 1,734,716; Nov. 5.
- Daniele, Alexander L., San Francisco, Calif. Folding stand. 1,721,690; July 23.
- Danielli, Salvatore, Milan, Italy. Dress fastening. 1,700,628; Jan. 29.
- Daniels, Charles E., assignor to The American Crayon Company, Sandusky, Ohio. Pencil-making machine. 1,706,728; Mar. 26.
- Daniels, Claude H., Newton, Mass. Shoe and making the same. 1,698,473; Jan. 8.
- Daniels, Cornelius, assignor of one-half to J. R. Bux, Philadelphia, Pa. Rack for actuating the shuttles of narrow-ware looms. 1,707,512; Apr. 2.
- Daniels, Elmer A., Berwyn, and H. S. Snell, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Cork composition. 1,732,398; Oct. 22.
- Daniels, Farrington, Madison, Wis. Detergent composition. 1,719,595; July 2.
- Daniels, Fred H., assignor to Riley Stoker Corporation, Worcester, Mass. Pulverizing apparatus. 1,711,044; Apr. 30.
- Daniels, Fred H., assignor to Riley Stoker Corporation, Worcester, Mass. Two-zone pulverizing apparatus. 1,719,831; July 9.
- Daniels, Fred H., assignor to Riley Stoker Corporation, Worcester, Mass. Pulverizing apparatus. 1,724,072; Aug. 13.
- Daniels, Fred H., assignor to Riley Stoker Corporation, Worcester, Mass. Dual feed-pulverizing apparatus. 1,731,649; Oct. 15.
- Daniels, George M., Cambridge, Mass. Binder for sheet materials. 1,697,053; Jan. 1.
- Daniels, Herman C., Huntington, W. Va. Burner for gas heaters. 1,710,147; Apr. 23.
- Daniels, John J., Willmar, Minn. Trap for animals. 1,703,990; Mar. 5.
- Daniels, John J., Minneapolis, Minn. Gopher trap. 1,721,946; July 23.
- Daniels, Lee G., Rockford, Ill. Water-softener valve mechanism. 1,715,642; June 4.
- Daniels, Mildred M. (See Cawley, Michael J., assignor.)
- Daniels, Richard F., Alameda, Calif. Brake-testing machine. 1,702,817; Feb. 19.
- Daniels, Rupert E., assignor to L. L. Brown Paper Company, Adams, Mass. Making paper. 1,729,571; Sept. 24.
- Daniels, Samuel, Dayton, Ohio. Aluminum-base alloy. 1,710,148; Apr. 23.
- Danielson, Ernest, assignor, by mesne assignments, to Gray & Danielson Mfg. Co., San Francisco, Calif. Radio tube socket. 1,719,288; July 2.
- Danielson, Ernest G., San Francisco, Calif. Variable condenser. 1,703,574; Feb. 26.
- Danielson, Ernest G., San Francisco, Calif. Radio support panel. 1,713,951; May 21.
- Danielson, Ernest G., San Francisco, Calif. Gang-control condenser. 1,719,289; July 2.
- Danielson, Ernest G., San Francisco, Calif. Gear-molding process. 1,719,290; July 2.
- Danielson, Ernest G., San Francisco, Calif. Electron relay control system. 1,733,117; Oct. 29.
- Danielsson, Axel U. S., assignor to Aktiebolaget Atlas-Diesel, Stockholm, Sweden. Compressed-air starting and reversing means. 1,706,773; Mar. 26.
- Danks, Alfred C., Cleveland, Ohio, assignor of one-half to K. L. Martin, Montclair, N. J. Water-tube boiler. Re17,464; Oct. 22.
- Danks, Alfred C., Cleveland, Ohio, and K. L. Martin, Montclair, N. J. Water-tube boiler. 1,702,933; Feb. 19.
- Danks, Alfred C., Cleveland, Ohio, assignor of one-half to K. L. Martin, Montclair, N. J. Water-tube boiler. 1,707,627; Apr. 2.
- Danly, George I., assignor to Danly Machine Specialties, Inc., Chicago, Ill. Feeding mechanism for grinding machines. 1,725,444; Aug. 20.
- Danly Machine Specialties, Inc. (See Danly, George I., assignor.)
- Danly Machine Specialties, Inc. (See Skall, Harold, assignor.)
- Dann, Ernest G., Chicago, Ill. Watch support. 1,738,643; Dec. 10.
- Dann, Joseph A., Miami, Fla., assignor to S. Dann. Door holder and bumper. 1,732,329; Oct. 22.
- Dann, Joseph A., Miami, Fla., assignor to Sarah Dann. Match-box holder. 1,733,182; Oct. 29.
- Dann, Sarah. (See Dann, Joseph A., assignor.)
- Dann, Walter M. (See Hill, L. H., and Dann.)
- Dann, Walter M., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Expansion device. 1,705,721; Mar. 19.
- Dann, Walter M., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Expansion device. 1,705,722; Mar. 19.
- Dann, Walter M., C. L. Knotts, A. W. Thompson, and L. H. Hill, Sharon, Pa., assignors to Westinghouse Electric & Manufacturing Company. Transformer tap changer. 1,732,742; Oct. 22.
- Danner, Albert P., Bridgeport, Conn. Christmas-tree holder. 1,714,498; May 28.
- Danner, Edward, Detroit, Mich. Sheet-glass-forming apparatus and method. 1,697,227; Jan. 1.
- Danner, Edward, Toledo, Ohio. Method and apparatus for manufacturing continuous glassware. 1,734,964; Nov. 12.
- Danner, Edward, Toledo, Ohio. Method and apparatus for forming glassware. 1,734,965; Nov. 12.
- Danner, Elizabeth, St. Louis, Mo. Doorcheck. 1,730,646; Oct. 8.
- D'Ans, Jean, assignor to Deutsche Gasglühlicht-Auer-Gesellschaft m. b. H., Berlin, Germany. Manufacture of refractory substances. 1,728,748; Sept. 17.
- Dansby, Bob, and H. D. Smith, Lakeland, Fla. Suction cleaning apparatus. 1,701,996; Feb. 12.
- Dansereau, Charles E., assignor to Louis Stern Company, Providence, R. I. Connector for chain links. 1,713,821; May 21.
- Dansereau, George H., Johnston, assignor to Coyne, Robidoux & Co., Providence, R. I. Chain. 1,700,351; Jan. 29.
- Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Resistance element and making the same. 1,717,193; June 11.
- Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Apparatus for testing insulating liquids. 1,721,374; July 16.
- Danzer, Fred P., assignor to Gold Medal Folding Furniture Company, Racine, Wis. Folding chair. Des. 78,731; June 18.
- Danziger, Harold I., New York, N. Y. Electrical condenser and making the same. 1,726,343; Aug. 27.



- Danziger, Harold I., assignor to Condenser Corporation of America, New York, N. Y. Wire-cutting device. 1,732,224; Oct. 22.
- Daoust, Joseph W., Montreal, Quebec, Canada. Grapple. 1,717,194; June 11.
- Daponte, Demetrius L., London, England. Stereoscopic cinematography. 1,714,849; May 28.
- Dapp, Edward, Harrisburg, Pa. Message-carrying parachute. 1,712,296; May 7.
- Dapron, Joseph M., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,727,396; Sept. 10.
- Dapron, Joseph M., St. Louis, Mo., and E. R. Fitch, Westwood, N. J., assignors to The Westinghouse Brake Company, Wilmerding, Pa. Variable-speed brake. 1,727,397; Sept. 10.
- D'Aquin, Robert J., New Orleans, La. Resilient wheel. 1,721,509; July 23.
- Daradics, Michael. (See Nagy, Louis, assignor.)
- Darby, Edward L., assignor of one-twentieth to C. F. Sentell, Snyder, Tex. Earth-working attachment for farm implements. 1,713,744; May 21.
- Darby, George B., Jr., Glenside, Pa. Expansion joint for pipes. 1,720,543; July 9.
- Darby, John M., assignor of one-half to P. Darby, Indianapolis, Ind. Steering-wheel lock. 1,729,505; Sept. 24.
- Darby, Perry. (See Darby, John M., assignor.)
- Darby, Samuel E., trustee. (See Parker, Richard B., assignor.)
- Darby, W. E. (See Collins, Nathaniel T., assignor.)
- Darche, Albert A., Algiers, France. Device insuring an intense stirring up in explosion motors provided with two lateral valve boxes (T heads). 1,737,452; Nov. 26.
- Darco Sales Corporation. (See Mahler, Paul, assignor.)
- D'Arcy, Frank P., Kalamazoo, Mich. Bus seat. 1,711,085; Apr. 30.
- D'Arcy, George W., Newton, Mass. Vaporizing nozzle for humidifying apparatus. 1,709,064; Apr. 16.
- Dardelet Threadlock Corporation. (See Hoke, William E., assignor.)
- Dare, Melvin E., Detroit, Mich. Aeroplane construction. 1,720,667; July 16.
- Dark, William F., and M. W. Tennant, Brandon, Manitoba, Canada. Vehicle safety signal. 1,716,370; June 11.
- Darling, Amy F., Boston, Mass. Meat tenderer. 1,739,214; Dec. 10.
- Darling, Edward J., Philadelphia, Pa. Figure wheeled toy. 1,711,376; Apr. 30.
- Darling, Harold R., and Harry S. Albertson, Los Angeles, Calif., assignors to Robert Thompson Company. Vehicle body. Des. 73,732; June 18.
- Darling, Harry J., Detroit, Mich. Bridging and joist support. 1,723,605; Aug. 6.
- Darling, J. Frank. (See Schutte, Karl H., assignor.)
- Darling, Jay, Williamsport, Ind. Machine for stamping out molds. 1,714,214; May 21.
- Darling, Samuel, sr., Waupun, Wis. Arch support. 1,702,722; Feb. 19.
- Darlington, Francis G., San Francisco, Calif. Door lock. 1,732,433; Oct. 22.
- Dario Company. (See Woodard, Rodney D., assignor.)
- Darman, Joseph, assignor to Utica Towel Cabinet Corp., Utica, N. Y. Towel cabinet. 1,703,265; Feb. 26.
- Darmitzel, William F., Albuquerque, N. Mex. Combination toothbrush and tongue scraper. 1,728,956; Sept. 24.
- Darne, Regis, St. Etienne, France. Automatic firearm. 1,730,269; Oct. 1.
- Darnell, George, et al., legal representatives. (See Dawson, A. T., White, and Buckham.)
- Darr, Chester A., Del Rio, Tex. Bait sinker and carrier. 1,701,444; Feb. 5.
- Darr, Clyde J., Somerset, Pa. Stone gatherer. 1,713,952; May 21.
- Darr, Earl A., et al., executors. (See Kraft, Henry P.)
- Darrach, Bradford, Jr., Hartsdale, assignor to Laminated Shim Company, Inc., Long Island City, N. Y. Shim. 1,736,998; Nov. 26.
- Darragh, Edwin E., New York, N. Y. Display box. 1,701,064; Feb. 5.
- Darragh, Edwin E., New York, N. Y. Display box. 1,701,065; Feb. 5.
- Darragh, Edwin E., New York, N. Y. Display box. 1,732,226; Oct. 22.
- Darrer, Lena H., Rochester, N. Y. Chafing protector. 1,731,886; Oct. 15.
- Darrieus, Georges, Paris, France, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Rectifying system. 1,712,491; May 14.
- Darrieus, Georges J., assignor to Compagnie Electro-Mecanique, Paris, France. Supporting frame for electric lines. 1,727,811; Sept. 10.
- Darrin, Howard A., Paris, France. Carriage-body system for automobiles and other vehicles. 1,721,875; July 23.
- Darroch, James, Barrhead, Scotland. Stand for calorimetric bombs. 1,708,754; Apr. 9.
- Darroch, James, Barrhead, near Glasgow, Scotland. Calorimetric bomb. 1,708,873; Apr. 9.
- Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Making pneumatic-tire casings. 1,732,793; Oct. 22.
- Darrow, Henry E., Santa Barbara, Calif. Flush valve. 1,714,591; May 28.
- Darrow, Marius S., St. Louis, Mo., assignor to The Barber Asphalt Company, Philadelphia, Pa. Building construction. 1,707,255; Apr. 2.
- Darrow, Nicholas J., and J. F. French, Olathe, Colo. Cigarette holder. 1,699,956; Jan. 22.
- Darrow, William W. (See Eklind, C. E., and Darrow.)
- Darrow, William W. (See Tobin, K. J., and Darrow.)
- Darrow, Wilton E., Stockton, Calif. Puzzle board. 1,698,780; Jan. 15.
- Darsie, James A. (See Cunniff, J. V., and Darsie.)
- Dart, Russell S., Boston, Mass. Grappling device for merchandise. 1,729,330; Sept. 24.
- Darwin, Oliver L., Milwaukee, Wis. Wave and tide motor. 1,701,146; Feb. 5.
- Dary, James A., Ottawa, Kans., assignor, by mesne assignments, to Pearson Manufacturing Company. Milk-can-steaming device. 1,722,077; July 23.
- Das Chopra, Naraina, and F. J. Bullen, Westminster, London, England. Manufacture of rolled-steel members. 1,712,251; May 7.
- Das Chopra, Naraina, and F. J. Bullen, Westminster, London, England. Manufacture of rolled-steel members. 1,712,252; May 7.
- Das Chopra, Naraina, and F. J. Bullen, London, England. Heat treatment of steel. 1,712,253; May 7.
- Dash, Philip A. (See Ishaner, F. F., and Dash.)
- Dashell, Philip T., assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Manufacturing carbureted water gas. 1,738,493; Dec. 3.
- Dashnaw, Victor W., Ogdensburg, N. Y. Water heater. 1,738,948; Dec. 10.
- Dass, Banesvar, Bloomfield, N. J., assignor to Ellis-Foster Company. Food product. 1,708,914; Apr. 9.
- D'Asseler, Jules, Ghent, Belgium. Wind motor. 1,713,866; May 21.
- Date, Paul, Evanston, assignor to Lamco Products Company, Chicago, Ill. Clothesbag hanger. 1,706,873; Mar. 26.
- Dattilo, Vincent, New York, N. Y. Exercising device. 1,738,987; Dec. 10.
- Daubenspeck, William J., assignor to The Ignition Manufacturing Company, Cleveland, Ohio. Spark plug. 1,730,561; Oct. 8.
- Dauber-Swab Co., The. (See Codina, Peter, assignor.)
- Daubs, Ralph C., and R. C. Cannon, Youngstown, Ohio. Dough chute. 1,708,874; Apr. 9.
- Daudelin, Jean B., Fall River, Mass. Shuttle. 1,697,458; Jan. 1.
- Daudt, Herbert W., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing tetra-ethyl lead. 1,705,723; Mar. 19.
- Daudt, Herbert W., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing benzoic acid. 1,712,753; May 14.
- Daudt, Herbert W., Penns Grove, A. E. Parmelee, Carneys Point, and K. P. Monroe, Penns Grove, N. J., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of lead tetra-alkyl. 1,717,961; June 18.
- Daugherty, Gilbert H., Greenfield, assignor to The Wadell Company, Greenfield, Ohio. Vending case. 1,716,032; June 4.
- Daugherty, Samuel B., Oil City, Pa. Fuel-mixing device. 1,713,745; May 21.
- Daughs, Charles W., Portland, Oreg., assignor to Daughs Ship Crane Company. Steam connection. 1,697,261; Jan. 1.
- Daughs, Charles W., Portland, Oreg., assignor to Daughs Ship Crane Company. Crane. 1,706,441; Mar. 26.
- Daughs Ship Crane Company. (See Daughs, Charles W., assignor.)
- Dauler, Cyrus S., Pittsburgh, Pa. Motor control system. 1,731,373; Oct. 15.
- Daumann, Karl W., Hamburg, Germany. Cathode arrangement for X-ray tubes. 1,720,210; July 9.
- Daun, Carl L., and P. E. Keller, assignors, by mesne assignments, to American Electric Motor Company, Milwaukee, Wis. Dynamo-electric machine. 1,703,087; Feb. 26.
- Dauphinee, George S. (See Coffey, B. H., and Dauphinee.)
- Dauplaise, Noah L., Manchester, Conn. Equalizing and braking device. 1,729,283; Sept. 24.
- Dautch, Jacob, assignor to S. S. Dautch, Buffalo, N. Y. Seam pressing and smoothing device. 1,705,902; Mar. 19.
- Dautch, Samuel S. (See Dautch, Jacob, assignor.)
- Dautrick, Owen L., Detroit, Mich. Door. 1,706,442; Mar. 26.
- Dautrick, Owen L., assignor of one-half to E. R. Wilson, one-half to R. C. Krause, Detroit, Mich. Garage door. 1,724,995; Aug. 20.
- Daye, Lawrence W., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power-line signaling. 1,705,903; Mar. 19.
- Davenport, Arthur E., Maywood, Ill. Oil-pump battery unit. 1,730,119; Oct. 1.
- Davenport, Arthur E., Maywood, Ill. Oil-display pump. 1,730,127; Oct. 1.
- Davenport, Arthur E., assignor to Oil Products Appliance Co., Maywood, Ill. Oil pump. 1,713,424; May 14.
- Davenport, Arthur E., assignor to Oil Products Appliance Co., Maywood, Ill. Sight prime and drainage indicator for gasoline pumps. 1,715,281; May 28.
- Davenport, Boyd F. (See Ralston, J. M., and Davenport.)
- Davenport, Frances M., Compton, Calif. Resting device. 1,727,751; Sept. 10.
- Davenport, Charles M., Norfolk, Va. Dispensing tube. 1,701,949; Feb. 12.



- Davenport, George R., Royal Oak, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,696,939; Jan. 1.
- Davenport, Harry J., Paterson, N. J. Deodorizing and dehumidifying composition and making same. 1,741,921; Dec. 31.
- Davenport, Herman A. (See Winkley, E. E., and Davenport.)
- Davenport, Herman A., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shaping the bottoms of shoes. 1,704,822; Mar. 12.
- Davenport, John D. (See Rackstraw, Albert V., assignor.)
- Davenport Machine Tool Co. (See Davenport, William S., assignor.)
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Transforming heat. 1,698,938; Jan. 15.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Refrigerating apparatus. 1,698,939; Jan. 15.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Apparatus for the transforming of heat. 1,698,940; Jan. 15.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Apparatus for transforming heat. 1,698,941; Jan. 15.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Heat-transforming apparatus. 1,704,177; Mar. 5.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Process of and apparatus for producing refrigeration. 1,726,178; Aug. 27.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Refrigerating apparatus. 1,726,344; Aug. 27.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Refrigerating and ice-making process and apparatus. 1,731,711; Oct. 15.
- Davenport, Ransom W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Refrigerating system. 1,735,995; Nov. 19.
- Davenport, Ransom W., and H. S. Estler, Detroit, Mich., assignors to Chicago Pneumatic Tool Company, New York, N. Y. Heat-transforming process and apparatus. 1,731,710; Oct. 15.
- Davenport, Repard H., and J. Porter, South Jacksonville, Fla. Railway-car-truck side frame. 1,740,338; Dec. 17.
- Davenport, Stanley S., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Leveling machine. 1,717,372; June 18.
- Davenport, William S., assignor to Davenport Machine Tool Co., Inc., Rochester, N. Y. Work-supporting means for machine tools. 1,721,729; July 23.
- Davey, George W. (See Waite, F. H., and Davey.)
- Davey, George W., Long Island City, N. Y. Furnace wall. 1,741,679; Dec. 31.
- Davey, George W., Long Island City, N. Y. Furnace wall. 1,741,680; Dec. 31.
- Davey, James A., Sound Beach, Conn., P. H. Davey, and C. L. Gaugler, Kent, Ohio; said Gaugler assignor to The Davey Tree Expert Company, Kent, Ohio. Air compressor. Re17,457; Oct. 15.
- Davey, James A., Sound Beach, Conn., and P. H. Davey and C. L. Gaugler; said Gaugler assignor of his entire right to The Davey Tree Expert Company, Kent, Ohio. Treating trees. 1,700,030; Jan. 22.
- Davey, James A., Sound Beach, Conn., and P. H. Davey and C. L. Gaugler; said Gaugler assignor to The Davey Tree Expert Company, Kent, Ohio. Treating trees. 1,702,337; Feb. 19.
- Davey, James A., Sound Beach, Conn., P. H. Davey, and C. L. Gaugler; said Gaugler assignor to The Davey Tree Expert Co., Kent, Ohio. Power connection. 1,722,278; July 30.
- Davey, James A., Sound Beach, Conn., and P. H. Davey and C. L. Gaugler; said Gaugler assignor to The Davey Tree Expert Co., Kent, Ohio. Portable compressor and mounting the same on tractors. 1,729,155; Sept. 24.
- Davey, Paul H. (See Davey, James A. and P. H., and Gaugler.)
- Davey, Thomas. (See Cartwright, J. S., and Davey.)
- Davey Tree Expert Company, The. (See Davey, James A. and P. H., and Gaugler, assignors.)
- Davey Tree Expert Co., The. (See Williams, William R., assignor.)
- Davey, Wheeler P., Schenectady, N. Y., assignor to General Electric Company. Coating material. 1,723,844; Aug. 6.
- Davey, Wheeler P., Schenectady, N. Y., assignor to General Electric Company. Coating composition. 1,726,473; Aug. 27.
- David, Aubrey D., assignor to The Universal Oil Products Company, Chicago, Ill. Apparatus for treating petroleum oils. 1,733,651; Oct. 29.
- David, David R., New York, N. Y. Hair-waving device. 1,708,379; Apr. 9.
- David, Eugene S., Jacksonville, Tex. Gig. 1,727,812; Sept. 10.
- David, Pierre B., and R. M. Mesny, Paris, France. Wireless amplifying receiver unaffected by strays. 1,727,813; Sept. 10.
- David, Tanous H., Sacramento, Calif. Adjusting device. 1,722,662; July 30.
- Davidoff, Louis, Brooklyn, N. Y. Necktie. 1,736,697; Nov. 19.
- Davidson, Sören, Tonsberg, Norway. Regulating device for electrode boilers. 1,706,146; Mar. 19.
- Davidson, Allister C., Los Angeles, Calif. Location marker for golf balls and the like. 1,735,736; Nov. 12.
- Davidson, Charles E., assignor to Coleman Lamp and Stove Co., Wichita, Kans. Stove. 1,711,226; Apr. 30.
- Davidson, Charles E., assignor to Coleman Lamp and Stove Co., Wichita, Kans. Heating stove. 1,716,213; June 4.
- Davidson, Clinton, San Francisco, Calif. Telephoto camera. 1,724,566; Aug. 13.
- Davidson, Edward J., Hayes, England. Instrument for cutting the bands of baled goods and the like. 1,717,008; June 11.
- Davidson, Eli, Chelsea, Mass. Temporary binder. 1,729,331; Sept. 24.
- Davidson, Eli, Chelsea, Mass. Temporary binder. 1,737,109; Nov. 26.
- Davidson, Elias E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Transmission belt and making the same. 1,730,647; Oct. 8.
- Davidson, Frank E., San Bernardino, Calif. Rotary valve for hydrocarbon engines. 1,724,458; Aug. 13.
- Davidson, Frank W., Upper Montclair, N. J., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing machine and forming seams. 1,733,867; Oct. 29.
- Davidson, Frederic A., Chicago, Ill., assignor to Chesebro, Whitman Co. Inc., Long Island City, N. Y. Stepladder. 1,702,249; Feb. 19.
- Davidson, Frederic A., Chicago, Ill., assignor to American Safety Device Co., New York, N. Y. Coupling device. 1,706,147; Mar. 19.
- Davidson, Frederic A., Chicago, Ill., assignor to American Safety Device Company, New York, N. Y. Coupling means. 1,706,214; Mar. 19.
- Davidson, Frederic A., Chicago, Ill., assignor to American Safety Device Co., New York, N. Y. Adjustable coupling means. 1,706,215; Mar. 19.
- Davidson, Frederick A., Chicago, Ill., assignor to American Safety Device Co., New York, N. Y. Clamp. 1,710,693; Apr. 30.
- Davidson, Frederic A., Chicago, Ill., assignor to American Safety Device Co., New York, N. Y. Framed structure and fitting therefor. 1,714,298; May 21.
- Davidson, George. (See Laver, A., and Davidson.)
- Davidson, Glenn. (See Cone, C. N., Davidson, and Laucks.)
- Davidson, Glenn. (See Rippey, H. F., Davidson, Cone, Laucks, and Banks.)
- Davidson, Glenn, assignor to I. F. Laucks, Inc., Seattle, Wash. Preparing substances composed in part of protein-containing cells for the manufacture of adhesives. 1,724,695; Aug. 13.
- Davidson, James H., assignor to Hood Rubber Company, Watertown, Mass. Gum-stock deflector for rubber calenders. 1,699,282; Jan. 15.
- Davidson, James H., assignor to Hood Rubber Company, Watertown, Mass. Apron conveyor. 1,736,582; Nov. 19.
- Davidson, James L., Los Angeles, Calif. Fireproof door. 1,740,888; Dec. 24.
- Davidson, Jay B., Ames, Iowa. Rotary tiller for gang plows. 1,697,677; Jan. 1.
- Davidson, Jay B., Ames, Iowa, assignor, by mesne assignments, to General Implement Company. Combined plow and pulverizer. 1,697,678; Jan. 1.
- Davidson, Jay B., Ames, Iowa, assignor, by mesne assignments, to General Implement Company. Combined plow and soil pulverizer. 1,697,679; Jan. 1.
- Davidson, John, Jr., Montclair, N. J., and H. E. Phelps, Tuckahoe, N. Y., assignor to American Telephone and Telegraph Company. Office-selecting means for telephone trunk circuits. 1,725,753; Aug. 27.
- Davidson, Joseph, assignor to Davidson-Kennedy Company, Atlanta, Ga. Treating oleaginous materials. 1,724,073; Aug. 13.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide & Carbon Chemicals Corp. Inhibitor. 1,723,923; Aug. 6.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Ether of propylene glycol and making the same. 1,730,061; Oct. 1.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Lacquer. 1,731,333; Oct. 15.
- Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Making ethylene glycol monoalkyl ethers. 1,732,356; Oct. 22.
- Davidson-Kennedy Company. (See Davidson, Joseph, assignor.)
- Davidson Manufacturing Company. (See Davidson, William W., assignor.)
- Davidson, Margaret, Philadelphia, Pa. Lady's hat. Re17,268; Apr. 16.
- Davidson, Neil A., assignor to Bureau of Engraving, Inc., Minneapolis, Minn. Display device for cartons and the like. 1,737,077; Nov. 26.
- Davidson, Thomas M., Hatch End, England. Apparatus for separating minerals and other substances. 1,719,171; July 2.



- Davidson, Thomas M., Hatch End, Middlesex, England. Separation of minerals and other substances. 1,736,111; Nov. 19.
- Davidson, Verna E., Detroit, Mich. Burglar trap. 1,722,457; July 30.
- Davidson, William J., M. G. Wolf, Chicago, and A. Berdich, Riverside, Ill. Automatic banjo mute. 1,708,169; Apr. 9.
- Davidson, William W., Evanston, Ill., assignor to Davidson Manufacturing Company, Madison, Wis. Feeding mechanism. 1,741,451; Dec. 31.
- Davie, John M., and G. A. Mytinger, Ambridge, Pa. Ventilator. 1,730,193; Oct. 1.
- Davies, Albert V., Gulfport, Miss. Novelty bank. 1,714,904; May 28.
- Davies, Caleb, jr., Poland, Ohio. Making water gas. 1,712,983; May 14.
- Davies, Charles, Kensington, Victoria, Australia. Determining the required temperature of liquids or semi-liquids. 1,731,887; Oct. 15.
- Davies, David R., Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Switch mechanism. 1,700,884; Feb. 5.
- Davies, David R., Didsbury, England, assignor to Westinghouse Electric & Manufacturing Company. Switch gear. 1,709,780; Apr. 16.
- Davies, David R., Stretford, England, assignor to Westinghouse Electric & Manufacturing Company. Truck-type circuit breaker. 1,726,656; Sept. 3.
- Davies, David P., assignor to J. I. Case Company, Racine, Wis. Tractor. 1,740,810; Dec. 24.
- Davies, Harold A., Alameda, Calif. Electric fluid-heating apparatus. 1,738,360; Dec. 3.
- Davies, Hector L., Gowerston, near Swansea, and S. R. Cound, Aberavon, Wales. Rolling mill for the production of metal sheets or plates. 1,711,559; May 7.
- Davies, Henry K., & Co. (See Davies, H. K., and Lorentz, assignors.)
- Davies, Henry K., Brooklyn, N. Y., and A. C. Lorentz, North Bergen, N. J., assignors to Henry K. Davies & Co., Inc., New York, N. Y. Chemical container. 1,720,643; July 9.
- Davies, Henry R., Valley Cottage, N. Y., assignor to Industrial Research Corporation, Toledo, Ohio. Air cleaner. 1,708,122; Apr. 9.
- Davies, Hugh, Union City, N. J. Apparatus for forming pipe joints. 1,716,428; June 11.
- Davies, Hugh, Union City, N. J. Forming pipe joints. 1,716,429; June 11.
- Davies, John B., Crafton, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Waterproof first-aid kit. 1,720,170; July 9.
- Davies, Richard D., Huntington Park, Calif., assignor, by mesne assignments, to P. L. & M. Company. Facing the cutting edges of drilling tools. Re17,323; June 11.
- Davies, W. Sanders, et al., trustees. (See Davis, Kenneth, assignor.)
- Davies, William R. (See Thomas, H. S., and Davies.)
- Daviet, Louis E. (See Dorsey, Thomas V. S., assignor.)
- Davignon, Victor D., assignor to General Plate Company, Attleboro, Mass. Precious-metal plate. 1,725,445; Aug. 20.
- Davignon, Victor D., assignor to General Plate Company Attleboro, Mass. Gold alloy. 1,731,210; Oct. 8.
- Davignon, Victor D., assignor to General Plate Company Attleboro, Mass. Gold alloy. 1,731,211; Oct. 8.
- Davignon, Victor D., assignor to General Plate Company Attleboro, Mass. Gold alloy. 1,731,212; Oct. 8.
- Davignon, Victor D., assignor to General Plate Company, Attleboro, Mass. Gold alloy. 1,731,213; Oct. 8.
- Dávila, Juan B., New York, N. Y. Resilient wheel. 1,697,681; Jan. 1.
- Davis, Abraham M., Chicago, Ill. Adjustable wall bracket. 1,704,937; Mar. 12.
- Davis, Alex B., Cincinnati, Ohio, assignor to The Keystone Watch Case Co., Riverside, N. J. Photographic etching and light-sensitive resist therefor. 1,703,512; Feb. 26.
- Davis, Alex B., Cincinnati, Ohio, assignor to The Keystone Watch Case Co., Riverside, N. J. Photographic etching and light-sensitive resist. 1,703,513; Feb. 26.
- Davis, Alex B., Cincinnati, Ohio, assignor to Pennsylvania Coal Products Co., Petrolia, Pa. Purifying alpha naphthol. 1,717,009; June 11.
- Davis, Alexis P. (See Buchanan, S. N., and Davis.)
- Davis, Alfred J. (See Manum, D. A., and Davis.)
- Davis, Alvan L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Producing headed metal articles. 1,723,769; Aug. 6.
- Davis, Anthony E., Philadelphia, Pa. Adjustable wall-radiator support. 1,736,307; Nov. 19.
- Davis, Archibald H., jr., Buffalo, assignor to National Aniline and Chemical Co., Inc., New York, N. Y. Valve heater. 1,706,997; Mar. 26.
- Davis, Archibald H., jr., Buffalo, assignor to National Aniline and Chemical Co., Inc., New York, N. Y. Electrical heating. 1,733,250; Oct. 29.
- Davis, Arthur L., Modesto, Calif. Direction signal for motor vehicles. 1,738,871; Dec. 10.
- Davis, Augustine, jr. (See Shield, Paul S., assignor.)
- Davis, Augustine, jr., Cincinnati, Ohio. Interlock mechanism for valves of multicompartment tanks. 1,700,761; Feb. 6.
- Davis Boring Tool Company. (See Davis, Emery E., assignor.)
- Davis Boring Tool Company. (See Kilzer, James E., assignor.)
- Davis, Cecil, Glasgow, Scotland, assignor to Radio Corporation of America. Wireless direction-finding apparatus. 1,702,041; Feb. 12.
- Davis, Charles A., Youngstown, Ohio. Method and apparatus for coating. 1,732,504; Oct. 22.
- Davis, Charles C. (See Judson, R. V., Davis, and Klemm.)
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,737,045; Nov. 26.
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for handling loose material. 1,742,026; Dec. 31.
- Davis, Charles S., assignor of one-third to R. P. Swanner, Pasco, and one-third to C. T. Myers, Yakima, Wash. Movable electric conductor and clamp. 1,727,814; Sept. 10.
- Davis, Clara J., executrix. (See Davis, Thomas J.)
- Davis, Clarence R., assignor to Davis Tool & Engineering Company, Detroit, Mich. Supporting bracket for garment hangers. 1,700,253; Jan. 29.
- Davis, Clarence R., Detroit, Mich. Costumer. 1,729,539; Sept. 24.
- Davis, Clark W., Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxidizing ammonia. 1,706,055; Mar. 19.
- Davis, Claud A., assignor, by mesne assignments, to The Hall Mfg. Company, Toledo, Ohio. Valve tool. Re17,313; June 4.
- Davis, Claude H., Mosman, Australia, assignor to The Resonator Limited, Sydney, New South Wales. Reproducer for phonographs and the like. 1,709,391; Apr. 16.
- Davis, Claude H., Mosman, New South Wales, assignor to The Resonator Limited, Sydney, New South Wales, Australia. Reproducer of phonographs. 1,728,668; Sept. 17.
- Davis, Cloyd, Mineola, N. Y. Hitch for connecting tractors to dump wagons, etc. 1,713,331; May 14.
- Davis, Cloyd, Mineola, N. Y. Tractor hitch. 1,713,332; May 14.
- Davis, Cortland W., Oak Park, assignor to The Mantle Lamp Company of America, Chicago, Ill. Flame spreader. 1,737,359; Nov. 26.
- Davis, Cortland W., Oak Park, and F. F. Becker, Chicago, Ill. Heat-insulated receptacle. Des. 79,915; Nov. 12.
- Davis, David, Detroit, Mich. Direction signal for automobiles. 1,708,216; Apr. 9.
- Davis, David C., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Maximum-demand meter. 1,697,166; Jan. 1.
- Davis, David C., Montclair, N. J., assignor to Westinghouse Electric & Manufacturing Company. Governor. 1,718,336; June 25.
- Davis, David C., Chester, Pa., deceased; M. E. Davis, executrix. Protective system for grade crossings. 1,730,194; Oct. 1.
- Davis, David J., et al. (See Peirce, Mead, assignor.)
- Davis, Dean W., Elmhurst, Ill., assignor to T. M. Hardy, Pendleton, and G. A. Schnull, Indianapolis, Ind. Storage-battery electrolyte control. 1,733,334; Oct. 29.
- Davis, Dean W., assignor, by mesne assignment, to T. M. Hardy, Pendleton, and G. R. Schnull, Indianapolis, Ind. Electrolyte-control cartridge. 1,733,335; Oct. 29.
- Davis, Donald C., deceased, Williamsville, N. Y., L. Bradshaw, executor. Hardness-testing device. 1,708,262; Apr. 9.
- Davis, Durrel H., assignor to Continental Axle Company, Edgerton, Wis. Fifth-wheel trailer. 1,707,513; Apr. 2.
- Davis, Edward L. (See Hessenbruch, Hermann M., assignor.)
- Davis, Edward R., Luzerne, and C. C. Shiber, Wilkes-Barre, Pa. Combined window-shade and curtain-rood support. 1,715,227; May 28.
- Davis, Edwin T., assignor to National Brake & Electric Company, Milwaukee, Wis. Valve. 1,729,990; Oct. 1.
- Davis, Elmer W., Newton, Mass., assignor to Shaw-Walker Company, Muskegon, Mich. Card-index system. 1,721,248; July 16.
- Davis, Emery E., assignor to Davis Boring Tool Company, St. Louis, Mo. Boring device. 1,698,394; Jan. 8.
- Davis, Emry, Clearwater, Fla. Aeroplane. 1,705,904; Mar. 19.
- Davis, Enoch A., Willsall, Mont. Disk plow. 1,704,178; Mar. 5.
- Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Power-actuating mechanism. 1,698,942; Jan. 15.
- Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Pad-drying means for pressing machines. 1,698,943; Jan. 15.
- Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Self-drying pad for pressing machines. 1,700,488; Jan. 29.
- Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Piston or plunger construction. 1,711,450; Apr. 30.
- Davis, Ernest F., assignor to Warner Gear Company, Muncie, Ind. Heat-drawing furnace. 1,718,779; June 25.
- Davis, Ernest L., assignor to The Acetylene Stove Manufacturing Company, Cleveland, Ohio. Iron. 1,736,698; Nov. 19.
- Davis, Ernest W. (See Fesler, D. F., Davis, and Frier.)



- Davis, Ernest W., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,700,471; Jan. 29.
- Davis, Ernest W., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating system. 1,705,283; Mar. 12.
- Davis, Ernest W., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Nipple. 1,707,977; Apr. 9.
- Davis, Ernest W., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor and coupling therefor. 1,711,777; May 7.
- Davis, Ernest W., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant dispensing device. 1,716,485; June 11.
- Davis, Ernest W., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,716,487; June 11.
- Davis, Ernest W., Oak Park, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Booster and release valve. 1,720,885; July 16.
- Davis, Ernest W., Oak Park, and G. F. Thomas, Berwyn, assignors to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,714,260; May 21.
- Davis, Ernest W., Oak Park, assignor to Alemite Corporation, Chicago, Ill. Lubricant compressor. 1,723,269; Aug. 6.
- Davis, Ernest W., Oak Park, assignor to Alemite Corporation, Chicago, Ill. Lubricant compressor. 1,725,257; Aug. 20.
- Davis, Ernest W., Oak Park, assignor to Alemite Corporation, Chicago, Ill. Nipple. 1,731,768; Oct. 15.
- Davis, Ernest W., Oak Park, assignor to Alemite Corporation, Chicago, Ill. Lubricating fitting. 1,734,288; Nov. 5.
- Davis, Ernest W., Oak Park, assignor to Alemite Corporation, Chicago, Ill. Liquid-handling means. 1,735,733; Nov. 12.
- Davis, Ernest W., Oak Park, and L. H. Wheeler, assignors to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,735,734; Nov. 12.
- Davis, Eugene H. (See Walker, N., and Davis.)
- Davis, Ferron R., et al., trustees. (See Scheid, Henry J., assignor.)
- Davis, Florence P., executrix. (See Horne, John F.)
- Davis, Floyd M., Paris, Ill. Tobacco can. 1,716,687; June 11.
- Davis, Francis F., assignor to F. H. Davis, Monterey, Calif. Shock-absorbing apparatus for drilling machines using wire cables. 1,724,913; Aug. 20.
- Davis, Francis F., assignor to F. H. Davis, Monterey, Calif. Wire-cable well-drilling device. 1,733,484; Oct. 29.
- Davis, Francis H. (See Davis, Francis F., assignor.)
- Davis, Frank, Brooklyn, N. Y., and A. Grothuss, Hoboken, N. J. Riveting machine. 1,729,247; Sept. 24.
- Davis, Frank, Halifax, England. Dyeing machine. 1,699,391; Jan. 15.
- Davis, Frank M., Milwaukee, Wis. Continuous boring and drilling machine. 1,704,080; Mar. 5.
- Davis, Frank S., Homewood, and L. S. Burns, Harvey, assignors to Austin Manufacturing Co., Chicago, Ill. Dual-tire wheel. 1,739,127; Dec. 10.
- Davis, Frank W., Milford, Del., assignor to S. G. Allen, trustee. Bessemer process of making steel. 1,709,389; Apr. 16.
- Davis, Frank W., Milford, Del., assignor to S. G. Allen, trustee. Making steel. 1,735,074; Nov. 12.
- Davis, Fred, Berkeley, Calif. Well-casing pump. 1,711,045; Apr. 30.
- Davis & Furber Machine Company. (See Leonard, Herman H., assignor.)
- Davis & Furber Machine Company. (See Redman, F. C., and Colman, assignors.)
- Davis, G. M., Regulator Company. (See Davis, George C., assignor.)
- Davis & Geck, Inc. (See Watson, Cassius H., assignor.)
- Davis, George C., Chicago, Ill. Valve. 1,711,923; May 7.
- Davis, George C., assignor to G. M. Davis Regulator Company, Chicago, Ill. Nonreturn valve. 1,711,924; May 7.
- Davis, George C., assignor to G. M. Davis Regulator Company, Chicago, Ill. Nonreturn valve. 1,711,925; May 7.
- Davis, George C., assignor to G. M. Davis Regulator Company, Chicago, Ill. Stop-cocking valve. 1,733,528; Oct. 29.
- Davis, George H., Newark, N. J. Resilient tube socket. 1,717,762; June 18.
- Davis, George W., Seattle, Wash. Centrifugal casting machine. 1,719,596; July 2.
- Davis, Gilbert F., Mishawaka, assignor to W. F. Bossert, Liberty, Ind. Tool for bending metal clips. 1,722,279; July 30.
- Davis, Harold D., and C. L. Fowler, Athens, Tenn. Lathe center. 1,721,988; July 23.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Selvage-trimming mechanism. 1,697,812; Jan. 1.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Yarn cleaner for spoolers. 1,701,471; Feb. 5.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Stopping mechanism for looms. 1,703,659; Feb. 26.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Yarn cleaner for spoolers. 1,703,851; Feb. 26.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Warper lint cleaner. 1,703,852; Feb. 26.
- Davis, Harry A., Hopedale, assignor to Draper Corporation, Hopedale, Mass. Beam hoist and lock. 1,704,885; Mar. 12.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,715,001; May 28.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,720,410; July 9.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,720,411; July 9.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. 1,722,243; July 23.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Tensioning device for automatically threading loom shuttles. 1,725,621; Aug. 20.
- Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Selvage mechanism for leno looms. 1,734,942; Nov. 5.
- Davis, Harry C., Pittsburgh, Pa. Automobile commode. 1,718,034; June 18.
- Davis, Harry St. Albans, assignor to R. Hoe & Co., Inc., New York, N. Y. Pin-adjusting mechanism for folding cylinders. 1,713,644; May 21.
- Davis, Henry O., Brockton, Mass. Last bushing and making the same. 1,736,999; Nov. 26.
- Davis, Henry F., Walters, assignor to G. B. Smith, Lawton, Okla. Movable fly net. 1,703,660; Feb. 26.
- Davis, Herbert D., et al. (See Kellow, James H., assignor.)
- Davis, Herbert L. (See Glidden, A. A., Knowland, and Davis.)
- Davis, Herbert S., Washington, D. C. Combined guide and clamp for automobile side curtains. 1,702,466; Feb. 19.
- Davis, Homer J., Wilmington, Del. Forming vulcanized-fiber tubes. 1,736,699; Nov. 19.
- Davis, Homer J., Wilmington, Del. Machine for cutting or shearing tubes. 1,736,700; Nov. 19.
- Davis, Horace W., and C. A. Bornmann, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Camera. 1,730,409; Oct. 8.
- Davis, Ira G., South Tamworth, N. H., assignor to Bemis Industries Inc., Boston, Mass. Wheeled toy animal. 1,701,910; Feb. 12.
- Davis, James C., Chicago, Ill. Tempering apparatus. 1,730,918; Oct. 8.
- Davis, James R., Newport, Vt. Milk-cooling apparatus. 1,740,646; Dec. 24.
- Davis, James V., Springfield, Ohio. Swinging gear support for derrick masts. 1,713,953; May 21.
- Davis, Jasper N., assignor to Battery Service Stations, Inc., Denver, Colo. Continuous-casting machine. 1,736,308; Nov. 19.
- Davis, John A., Los Angeles, Calif., assignor to Oversewing Machine Company. Bookbinding machine. 1,714,299; May 21.
- Davis, John B., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Liquid-dispensing apparatus. 1,722,694; July 30.
- Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. 1,737,995; Dec. 3.
- Davis, John C., Cincinnati, Ohio. Piano action. 1,709,390; Apr. 16.
- Davis, John F. A., Wenham, assignor to American Glue Company, Boston, Mass. Abrasive covering for sanders. 1,706,351; Mar. 19.
- Davis, John H., assignor, by mesne assignments, to Air Line Transportation Company, Philadelphia, Pa. Airplane. 1,721,772; July 23.
- Davis, John H., assignor, by mesne assignments, to Air Line Transportation Company, Philadelphia, Pa. Airplane. 1,721,773; July 23.
- Davis, John W., Washington, D. C. Lubrication for cam engines. 1,702,686; Feb. 19.
- Davis, John W. (See Tolman, De Baufre, Davis, and Roberts.)
- Davis, John W., Washington, D. C. Two-cycle airplane engine. 1,727,051; Sept. 3.
- Davis-Jones Insulated Wire Company. (See Jones, George T., assignor.)
- Davis, Joseph. (See Roe, John W., assignor.)
- Davis, Kenneth, assignor, by mesne assignments, to R. Peale, St. Benedict, Pa., W. S. Davies, New York, N. Y., and W. S. Wallace, Philadelphia, Pa., trustees. Electrical winding mechanism. 1,697,495; Jan. 1.
- Davis, Kenneth, Ebensburg, Pa., assignor, by mesne assignments to R. Peale, W. S. Davies, and W. S. Wallace, trustees. Conveying materials. 1,701,174; Feb. 5.
- Davis, Kenneth, St. Benedict, Pa., assignor, by mesne assignments, to R. Peale, W. S. Davies, and W. S. Wallace, trustees. Machine for conveying and stowing loose materials. 1,717,876; June 18.
- Davis, Kenneth, St. Benedict, Pa., assignor to R. R. and R. Peale, jr., trustees. Disintegrating and conveying machine. 1,739,215; Dec. 10.
- Davis, Kenneth R. (See Derby, I. H., and Davis.)
- Davis, Kent M. (See Davis, Rommy and K. M.)
- Davis, Lawrence V. (See Cole, G. W., and Davis.)
- Davis, Lewis F., Santa Ana, Calif. Standing-valve inserter and puller. 1,717,497; June 18.



- Davis, Lewis R., San Francisco, Calif. Mold. 1,705,905; Mar. 19.
- Davis, Louis, New York, N. Y. Rocking baby carriage. 1,739,785; Dec. 17.
- Davis, Margaret E., executrix. (See Davis, David C.)
- Davis, Nathan B., Kansas City, Mo., assignor to G. Krell, Sapulpa, Okla. Clamping spider. 1,726,521; Aug. 27.
- Davis, Millard F., Mendonhall, Miss. Automatic crossing protector. 1,714,417; May 21.
- Davis, Minott A., Hamden, Conn. Position marker for golf balls. 1,716,261; June 4.
- Davis, Nathan H., Philadelphia, Pa., assignor to Keystone Lantern Company. Velocipede. 1,713,999; May 21.
- Davis, Nathan H., Philadelphia, Pa., assignor to Keystone Lantern Company. Scooter brake. 1,714,000; May 21.
- Davis, Norman E. (See Wright, G. M., Smith, and Davis.)
- Davis, O. L., et al. (See Johnson, Charles D., assignor.)
- Davis, Patrick H., Leonia, N. J. Conveyor belt for washing machines and the like. 1,737,150; Nov. 26.
- Davis, Paul H., assignor of one-half to J. E. Jenkins, Chicago, Ill. Toroidal induction coil. 1,699,609; Jan. 22.
- Davis, Pridham B., Los Angeles, Calif. Watch crystal. 1,731,712; Oct. 15.
- Davis, Ray H., assignor to Fynd Products Company, Flint, Mich. Hood catch. 1,711,590; May 7.
- Davis, Ray H., Flint, Mich., assignor to Fynd Products Company. Hood catch. 1,722,562; July 30.
- Davis, Ray L., Wheeling, W. Va. Pump valve. 1,730,452; Oct. 8.
- Davis, Ray L., assignor to The Oil Recovery Corporation, Wheeling, W. Va. Seater and packer. 1,736,254; Nov. 19.
- Davis, Robert, Brooklyn, and W. Helm, Bellerose, N. Y. Shoe counter. 1,714,001; May 21.
- Davis, Robert L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Variable inductor. 1,725,060; Aug. 20.
- Davis, Robert L., Wilkingsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Modulation system. 1,730,878; Oct. 8.
- Davis, Rommy and K. M., Hennessey, Okla. Scraper attachment. 1,721,876; July 23.
- Davis, Samuel L., Gurdon, Ark. Indicator. 1,735,735; Nov. 12.
- Davis, Samuel P., assignor of one-fourth to S. F. Thompson and one-fourth to O. F. Mattiza, Silsbee, Tex. Sand-blast device. 1,730,195; Oct. 1.
- Davis, Sidney L., assignor to Morganmade, Incorporated, Keene, N. H. Pump. 1,737,534; Nov. 26.
- Davis, Simon E., assignor to Neustadter Brothers, San Francisco, Calif. Reinforced pocket. 1,706,024; Mar. 19.
- Davis Standard Bread Company. (See Smith, Newell N., assignor.)
- Davis, Thomas F., Alma, Okla. Pump-rod guide and swab for well tubes. 1,728,669; Sept. 17.
- Davis, Thomas J., deceased, by C. J. Davis, executrix, Duquesne, Pa. Screen. 1,703,726; Feb. 26.
- Davis, Thomas R., Fairfield, Conn. Hardening brake drums of malleable-iron disk automobile wheels. 1,711,835; May 7.
- Davis Tool & Engineering Company. (See Davis, Clarence R., assignor.)
- Davis, Vernon J., Buffalo, N. Y. Riddle. 1,728,335; Sept. 17.
- Davis, Wade H., Walnut Cove, N. C. Sawing attachment for automobiles. 1,724,459; Aug. 13.
- Davis, Wallace E., Ranger, Tex. Goal-line staff. 1,741,452; Dec. 31.
- Davis, Walter N., Staten Island, N. Y. Apparatus for raising sunken vessels. 1,741,681; Dec. 31.
- Davis, Walter T., assignor to Wheeling Stamping Company, Wheeling, W. Va. Collapsible tube. 1,740,287; Dec. 17.
- Davis, Walter T. (See Paull, A. W., and Davis.)
- Davis, Walter T., Wheeling, W. Va. Flying machine. 1,702,109; Feb. 12.
- Davis, Walter T., assignor to Wheeling Stamping Company. Wheeling, W. Va. Extrusion press for the manufacture of collapsible metal tubes. 1,712,259; May 7.
- Davis, Walter T., and J. A. McGinnis, assignors to Wheeling Stamping Company, Wheeling, W. Va. Casting machine. 1,724,914; Aug. 20.
- Davis, Walter W., Great Neck, N. Y. Detecting ore deposits. 1,724,794; Aug. 13.
- Davis, Walton F. (See Nix, R. R., and Davis.)
- Davis, Wilfred J., Plymouth, England, assignor to Radio Corporation of America. Calling device for wireless telegraphy. 1,719,535; July 2.
- Davis, William, Chicago, Ill. Dual controlling device for motor vehicle. 1,707,299; Apr. 2.
- Davis, William F., Belleville, Ill. Coal-sizing and impurity separating device. 1,716,486; June 11.
- Davis, William H., Long Beach, Calif. Foldable sun visor. 1,732,357; Oct. 22.
- Davis, William N., Oakland, W. H. Hampton, Berkeley, and E. N. Klemgard, Albany, assignors, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Removing sulphur compounds from petroleum oils. 1,705,809; Mar. 19.
- Davis, William R., Spartanburg, S. C. Railway-crossing signal. 1,710,408; Apr. 23.
- Davis, Winford W., Los Angeles, Calif. Daylight sign. 1,729,822; Oct. 1.
- Davis, Winthrop S., Pueblo, Colo. Hoe. 1,706,658; Mar. 26.
- Davis, Zeb W., Houston, Tex. Apparatus for mounting tire chains. 1,721,658; July 23.
- Davison, Clarence M., assignor to Poole Engineering and Machine Company, Baltimore, Md. Electric refrigerating apparatus. 1,699,564; Jan. 22.
- Davison, Clarence M., assignor to Poole Engineering and Machine Company, Baltimore, Md. Electric refrigerating apparatus. 1,720,171; July 9.
- Davison, Clyde E. (See Stevens, M., Weeks, and Davison.)
- Davison, David. (See Hosford, L. V., and Davison.)
- Davison, James M., jr. (See McCartney, Joseph, assignor.)
- Davison, John E., assignor of one-half to C. K. Hutchins, Des Moines, Iowa. Flashing. 1,699,181; Jan. 15.
- Davison, John, Inc. (See Robinson, Harold T., assignor.)
- Davison, William E., and W. B. Marshall, Fellows, Calif. Fishing tool. 1,721,003; July 16.
- Daviss, Hugh B., Corsicana, Tex. Fluid stabilizer. 1,713,170; May 14.
- Dayol, George K., San Francisco, Calif.; E. D. Strause, by decree of distribution, heir of said George K. Dayol, deceased. Internal-combustion engine. 1,702,467; Feb. 19.
- Dayol, Harry A., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Friction device for shuttles. 1,710,017; Apr. 23.
- Dayol, Harry A., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Friction device for hand threading shuttles. 1,710,018; Apr. 23.
- Dayol, Harry A., Methuen, Mass., assignor to U. S. Bobbin & Shuttle Co., Providence, R. I. Two-pin shuttle friction device. 1,711,227; Apr. 30.
- Davy, Charles F., Syracuse, N. Y. Fire escape. 1,720,823; July 16.
- Davy, George S., and R. S. Vincent, Madison, Wis. Railroad tie. 1,719,172; July 2.
- Dayvoff, Léonide. (See Rebikoff, Wassily, assignor.)
- Daw, Marvin C., East Cleveland, assignor to The Kelly Reamer Company, Cleveland, Ohio. Reamer. 1,740,647; Dec. 24.
- Dawes, Willard C. (See Jacobs, Henry I., assignor.)
- Dawkins, Don G., and G. H. Bowlus, Los Angeles, Calif. Belt-operated motor cut-out. 1,713,171; May 14.
- Dawley, Clarence A., Plainfield, N. J. Meter. 1,732,434; Oct. 22.
- Dawley, James C., assignor to The Joyce-Cridland Company, Dayton, Ohio. Push and pull jack. 1,703,992; Mar. 5.
- Dawley, James C., and I. V. K. Hott, assignors to The Joyce-Cridland Company, Dayton, Ohio. Brake mechanism. 1,719,691; July 2.
- Dawson, Arthur T., J. F. White, and G. T. Buckham, deceased, by G. Darnell, Westminster, London, and E. E. Larkins, Sheffield, legal representatives, assignors to Vickers Limited, Westminster, England. Recoil and run-out apparatus for ordnance. 1,719,597; July 2.
- Dawson, Axel G., Jamestown, N. Y. Partition. 1,716,624; June 11.
- Dawson, Axel G., Jamestown, N. Y. Partition construction. 1,716,625; June 11.
- Dawson, Axel G., assignor to Dahlstrom Metallic Door Company, Jamestown, N. Y. Variable panel and molding retainer. 1,741,979; Dec. 31.
- Dawson, Baylis M., Brooklyn, assignor to The Fleischmann Company, New York, N. Y. Yeast composition and preparing the same. 1,706,564; Mar. 26.
- Dawson, Baylis M., Brooklyn, assignor to The Fleischmann Company, New York, N. Y. Yeast composition and preparing the same. 1,706,565; Mar. 26.
- Dawson, Baylis M., Brooklyn, assignor to The Fleischmann Company, New York, N. Y. Yeast composition. 1,706,566; Mar. 26.
- Dawson, Clarence N. (See Dawson, Isaac L., C. N., and R. W.)
- Dawson, Edmund, Beaver Township, Mahoning County, Ohio. Expansion tank. 1,732,505; Oct. 22.
- Dawson, Edward H. (See Dawson, S. V., Wilkins, and Dawson.)
- Dawson, Elma N. (See Dawson, James C., assignor.)
- Dawson, George H., Boston, assignor to Service Bureau, Inc., Cambridge, Mass. Reinforced index card. 1,697,523; Jan. 1.
- Dawson, George H., Boston, assignor to Service Bureau, Inc., Cambridge, Mass. Index tab. 1,700,821; Feb. 5.
- Dawson, George H., Boston, assignor to Service Bureau, Inc., Cambridge, Mass. Index card. 1,700,822; Feb. 5.
- Dawson, George H., Boston, assignor to Service Bureau, Inc., Cambridge, Mass. Index guide card. 1,705,753; Mar. 19.
- Dawson, George H., Boston, assignor to Service Bureau, Inc., Cambridge, Mass. Index card. 1,708,832; Apr. 9.
- Dawson, George H., Cambridge, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Hinged panel. 1,733,296; Oct. 29.
- Dawson, George H., Cambridge, Mass., assignor by mesne assignments, to Remington Rand Inc., New York, N. Y. Card carrier. 1,741,150; Dec. 31.
- Dawson, Howard H., assignor to The Ohio Chemical & Manufacturing Company, Cleveland, Ohio. Purification of ethylene. 1,741,559; Dec. 31.
- Dawson, Isaac L., C. N., and R. W., Lawrence, Kans. Shocking machine. 1,699,584; Jan. 22.



- Dawson, James C., assignor to E. N. Dawson, Webster Groves, Mo. Loose-leaf binder. 1,726,810; Sept. 3.
- Dawson, James C., assignor to E. N. Dawson, Webster Groves, Mo. Loose-leaf binder. 1,731,296; Oct. 15.
- Dawson, James C., assignor to E. N. Dawson, Webster Groves, Mo. Loose-leaf binder. 1,731,454; Oct. 15.
- Dawson, John, Leaside, assignor, by mesne assignments, to Dawson Reciprocating Crank Actions Limited, Toronto, Ontario, Canada. Crank mechanism. 1,701,227; Feb. 5.
- Dawson, Joseph R., Flushing, N. Y., assignor to Electro Metallurgical Company. Welding rod. 1,728,174; Sept. 17.
- Dawson, Joseph R., Flushing, N. Y., assignor to The Linde Air Products Company. Reducing stresses in welded pipes. 1,737,786; Dec. 3.
- Dawson, Marion D., Whitesboro, Tex. Neck-yoke end. 1,720,628; July 9.
- Dawson, Ray G., Salem, Oreg. Wrench. 1,710,409; Apr. 23.
- Dawson, Raymond W. (See Dawson, Isaac L., C. N., and R. W.)
- Dawson Reciprocating Crank Actions Limited. (See Dawson, John, assignor.)
- Dawson, Robert, Skillman, N. J. Pipe joint. 1,707,904; Apr. 2.
- Dawson, Robert K., Guelph, Ontario, Canada. Feed device for wringers. 1,712,754; May 14.
- Dawson, Stuart V., J. G. Wilkins, and E. H. Dawson, Chicago, Ill. Design-making device. 1,706,998; Mar. 26.
- Dawson, Wilfred, London, England. Electric lamp. 1,728,478; Sept. 17.
- Day, Albert V. T., Paris, France, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,697,680; Jan. 1.
- Day, Albert V. T., New Rochelle, N. Y., assignor, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Railway-traffic-controlling system. 1,710,496; Apr. 23.
- Day, Andrew R., Dallas, Tex. Pipe-scribing instrument. 1,698,154; Jan. 8.
- Day, Arthur L., assignor to Braden Steel & Winch Company, Tulsa, Okla. Derrick reinforcement. 1,713,217; May 14.
- Day, Arthur L., assignor to Braden Steel & Winch Co., Tulsa, Okla. Derrick jack. 1,726,260; Aug. 27.
- Day, Ben, Inc. (See Cowan, Fletcher, assignor.)
- Day, Charles L., New York, N. Y. Lock nut. 1,724,460; Aug. 13.
- Day, Claude C., et al. (See Cardwell, William J., assignor.)
- Day, Charles R., Sewickley, Pa. Manufacturing car wheels. 1,735,423; Nov. 12.
- Day, Carroll B. (See Dykes, Albert H., assignor.)
- Day, Clayton L., Chicago, Ill., assignor to Chicago Bridge & Iron Co. Automatic vent for breather roofs. 1,716,950; June 11.
- Day, Clayton L., New York, N. Y., assignor to Chicago Bridge & Iron Co. Container for volatile liquids. 1,729,156; Sept. 24.
- Day, Clayton L., H. C. Boardman, and O. A. Bailey, assignors to Chicago Bridge and Iron Company, Chicago, Ill. Relief valve. 1,731,815; Oct. 15.
- Day, Edmund L., Sanford, Fla. Flywheel. 1,703,991; Mar. 5.
- Day, Elizabeth, and M. Goldberger, Chicago, Ill.; said Goldberger assignor to said Day. Indicator or pointing device. 1,723,332; Aug. 6.
- Day-Fan Electric Company. (See Brump, Herbert L., assignor.)
- Day-Fan Electric Company, The. (See Brump, H. L., and Bauch, assignors.)
- Day, Fred A., Cincinnati, Ohio. Apparatus for producing wooden heels. 1,728,396; Sept. 17.
- Day, George H., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting and method. 1,708,208; Apr. 9.
- Day, Herbert G., Akron, Ohio, assignor to The Philadelphia Rubber Works Company, Wilmington, Del. Method and apparatus for grinding fibrous rubber scrap or the like. 1,708,123; Apr. 9.
- Day, Howard D., Providence, R. I. Device for washing golf balls. 1,702,202; Feb. 12.
- Day, Howard D., Providence, R. I. Golf-ball-cleaning device. 1,702,203; Feb. 12.
- Day, J. H., Company, The. (See Kirchhoff, William G., assignor.)
- Day, Kelly B., et al. (See Day, William B., assignor.)
- Day, Leonard, New York, N. Y., assignor to Chem-Electric Engineering Corporation. Solder tape. 1,698,360; Jan. 8.
- Day, Percy C., and E. W. Jury, assignors to The Falk Corporation, Milwaukee, Wis. Backstop for elevators, conveyers, and the like. 1,730,318; Oct. 1.
- Day, R. Stanley, et al. (See Cardwell, William J., assignor.)
- Day, Ralph A., assignor to Gotham Silk Hosiery Company, Inc., New York, N. Y. Stocking. Des. 79,186; Aug. 13.
- Day, Salisbury M., assignor to General Railway Signal Company, Rochester, N. Y. Relay. 1,703,837; Feb. 26.
- Day, Salisbury M., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Focusing device for semaphore lamps. 1,713,490; May 14.
- Day, Wilbur F., Los Angeles, Calif. Salt and pepper shaker. Des. 78,385; Apr. 30.
- Day, William B., Winchester, Ky., assignor of one-third to H. P. Renick and one-third to K. B. Day, Punta Gorda, Fla. Terminal protector hood. 1,722,203; July 23.
- Day, William B., Lexington, assignor of one-half to K. W. Renick, Winchester, Ky. Electric defroster for refrigerating coils. 1,742,062; Dec. 31.
- Day, William H., East Haven, and C. R. Thomas, West Haven, Conn., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,697,349; Jan. 1.
- Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file card. 1,701,101; Feb. 5.
- Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Making indexes or the like. 1,712,200; May 7.
- Day, William H., East Haven, and C. R. Thomas, West Haven, Conn., assignors, by mesne assignments, to Remington Rand Inc., Tonaawanda, N. Y. Index or file card stop. 1,722,563; July 30.
- Day, William H., East Haven, and C. R. Thomas, West Haven, Conn., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,725,754; Aug. 27.
- Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,725,855; Aug. 27.
- Day, William P., Cleveland Heights, assignor to The International Steel Tie Company, Cleveland, Ohio. Road-bed construction for street railways and constructing the same. 1,738,043; Dec. 3.
- Day, William R., Cleveland, Ohio. Piston. Re17,193; Jan. 15.
- Day, William R., assignor to The Guardian Trust Company, trustee, Cleveland, Ohio. Piston and piston ring. 1,704,700; Mar. 12.
- Dayton Curvometer Products Company. (See Barnes, James H., assignor.)
- Dayton, Ernest L., Detroit, Mich. Automobile locking mechanism. 1,713,645; May 21.
- Dayton, Henry M. and N., Seattle, Wash. Finger ring. 1,724,130; Aug. 13.
- Dayton, James M., Torrington, Conn. Indicating and counting mechanism with compensator. 1,701,445; Feb. 5.
- Dayton, Joseph H., Los Angeles, Calif. Holding device for ironing-board covers. 1,737,300; Nov. 26.
- Dayton Malleable Iron Company, The. (See Runyan, William B., assignor.)
- Dayton Manufacturing Company, The. (See Wilcke, Otto C. F., assignor.)
- Dayton, Nellie. (See Dayton, Henry M. and N.)
- Dayton Paper Novelty Company, The. (See Neumann, Theodore L., assignor.)
- Dayton Pump and Manufacturing Company, The. (See Eickmeyer, Earl E., assignor.)
- Dayton Rubber Manufacturing Company, The, et al. (See Freedlander, Abraham L., assignor.)
- Dayton Rubber Manufacturing Company, The. (See Toulmin, Harry A., jr., assignor.)
- Dayton Scale Company. (See Bryce, James W., assignor.)
- Dayton Scale Company. (See Craig, Robert, assignor.)
- Dayton Scale Company. (See Folker, Harold, assignor.)
- Dayton Scale Company. (See Folker, Harold H., assignor.)
- Dayton Scale Company. (See Ogsbury, James S., assignor.)
- Dayton Scale Company. (See Rogers, Joseph E., assignor.)
- Dayton Scale Company. (See Strachan, Thomas H., assignor.)
- Dayton Scale Company. (See Wood, George R., assignor.)
- Dayton Steel Foundry Company, The. (See Stine, Wallace R., assignor.)
- Dayton Steel Racquet Company, The. (See Allen, Samuel C., assignor.)
- Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)
- Dayton, William L. (See Scott, J. M., and Dayton.)
- Dayton-Wright Company. (See Geyer, Harvey D., assignor.)
- Deach, Miles F., Oakland, Calif. Lamp bracket. 1,714,002; May 21.
- Deach, Miles F., Oakland, Calif. Adjustable lamp fixture. 1,714,003; May 21.
- Deacon, Daniel A., San Diego, Calif. Drainage fixture. 1,708,380; Apr. 9.
- Deacon, Daniel A., San Diego, Calif. Drainage device. 1,708,381; Apr. 9.
- Deacon, John C., Bakersfield, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Separating solids from oil. 1,713,117; May 14.
- Deagan, J. E., Inc. (See Little, Frederick B., assignor.)
- Deakin, Charles E., Montreal, Quebec, Canada. Building construction. 1,702,687; Feb. 19.
- Deakin, Gerald, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,733,584; Oct. 29.
- Deakins, Grover C., Anaheim, assignor of one-half to E. C. Wilson, Los Angeles, Calif. Expansible piston. 1,713,031; May 14.
- Deakins, Grover C., Anaheim, Calif. Clamp for pressure hose. 1,720,781; July 16.



- Deal, Amon, et al. (See Larrabee, Gus J., assignor.)
- Deal, Edwin T., Aldan, and L. F. Scott, assignors to The J. G. Brill Company, Philadelphia, Pa. Chair. Des. 80,170; Dec. 24.
- De Alba, B., Fabricio, Panama, Panama. Belt stabilizer. 1,726,387; Aug. 27.
- Deale, Robert C., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Control system. 1,707,460; Apr. 2.
- Dealy, James, Little Blue, Mo. Nail guide and saver. 1,715,819; June 4.
- Dean, Arthur L. (See Dean Winton, A. and A. L.)
- Dean Brothers Company. (See Dean, Stuart, assignor.)
- Dean, Buck, Anson, Tex. Grain-row header. 1,714,161; May 21.
- Dean, Charley C., and B. F. Stephens, Tulsa, Okla. Meter housing. 1,715,538; June 4.
- Dean, Edmund W., assignor to Duplex Printing Press Company, Battle Creek, Mich. Tubular-plate press and folder. 1,738,761; Dec. 10.
- Dean, Edward H., Ealing, London, England. Folding or collapsible chair. 1,721,294; July 16.
- Dean, Fielden R., Henry County, Ky. Cornstalk cutting and assembling machine. 1,714,851; May 28.
- Dean, George H., Norwood, R. I. Suction filter. 1,722,626; July 30.
- Dean, James, Stockport, England. Spraying device for applying mineral blacking to molds. 1,697,167; Jan. 1.
- Dean, James H. (See Baker, G. W., and Dean.)
- Dean, James H., Ludington, Mich. Furring clip. 1,697,228; Jan. 1.
- Dean, James H., Ludington, Mich. Sheet lath. 1,726,696; Sept. 3.
- Dean, John, Racine, Wis. Hair clipper. 1,729,096; Sept. 24.
- Dean, John, Racine, Wis. Hair clipper. 1,729,372; Sept. 24.
- Dean, Lizzie J., executrix. (See Coburn, Hiram S.)
- Dean, Peter P., Stamford, Conn., assignor, by mesne assignments, to Cutler-Hammer Manufacturing Company. Operating mechanism for valves and the like. 1,708,941; Apr. 16.
- Dean, Reginald S., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Slug for use in extrusion operations and method of extrusion. 1,720,722; July 16.
- Dean, Stuart, assignor to Dean Brothers Company, Indianapolis, Ind. Valve chest. 1,707,220; Apr. 2.
- Dean, Vernon M., assignor of twenty-four and one-half one-hundredths to E. C. Dubbs, Detroit, and twenty-four and one-half one-hundredths to W. B. James, Port Huron, Mich.; The Detroit Trust Company executor of said W. B. James, deceased. Internal-combustion engine. 1,720,319; July 9.
- Dean, William E., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,709,899; Apr. 23.
- Dean, William E., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,733,183; Oct. 29.
- Dean, William E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,723,137; Aug. 6.
- Dean, William E., Edgewood, and E. S. Cook, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Speed-reduction device. 1,723,136; Aug. 6.
- Dean, Winton A. and A. L. Long Beach, Calif. Rotary mixing device. 1,710,299; Apr. 23.
- Deane, Ernest. (See Reynolds, W. H. B., and Deane.)
- Deans, Frank B. (See Keen, J. S., and Deans.)
- Deans, Frank B., Sharon Hill, Pa. Battery-crate cover. 1,737,411; Nov. 26.
- Deans, William S., Pittsburgh, Pa., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Engine starter. 1,711,139; Apr. 30.
- Dearborn Company, The. (See Krema, John F., assignor.)
- Dearborn Company, The. (See Wuenn, Edward, assignor.)
- Dearden, Edward C., Merion, assignor to The Geo. W. Blabon Company, Philadelphia, Pa. Manufacture of mosaic fabrics. 1,728,397; Sept. 17.
- Dearden, Edward C., Merion, assignor to The Geo. W. Blabon Company, Philadelphia, Pa. Manufacture of mosaic fabrics. 1,728,398; Sept. 17.
- Deardorff, Ralph W., Seattle, Wash., assignor to American Telephone and Telegraph Company. Transmission-regulating system for radio and carrier telegraph systems. 1,697,905; Jan. 8.
- Dearmann, James, assignor to Milwaukee Ignition Company, Milwaukee, Wis. Gasoline vaporizer. 1,713,074; May 14.
- De Armas, Alberto, Habana, Cuba. Joint for railroad tracks. 1,697,844; Jan. 8.
- Dearsley, Irwin E. (See Walker, W. H., Mizer, and Dearsley.)
- Dearth, Elmer E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire construction. 1,727,537; Sept. 10.
- Deaver, John T., et al. (See Dwelle, Walter K., assignor.)
- De Bac, Alfred, Geneva, Switzerland, assignor to Isothermos Corporation of America, New York, N. Y. Automatic lubricating-journal box. 1,726,261; Aug. 27.
- De Back, William, San Leandro, Calif., assignor to Sprague Sells Corporation, Hoopston, Ill. Cooking apparatus. 1,736,778; Nov. 26.
- De Bafligethy, Max F., Houston, Tex. Distilling apparatus. Re17,233; Mar. 12.
- Debauche, Hubert, near Charleroy, Belgium. Apparatus for use in drying and distilling lignite, peat, noncoking coals, and other similar carbonaceous matter. 1,713,032; May 14.
- De Baufre, William L. (See Tolman, R. C., De Baufre, Davis, and Roberts.)
- De Baufre, William L., Lincoln, Nebr., assignor to S. G. Allen, trustee. Separation of mixed gases by progressive solubility. 1,722,458; July 30.
- De Bartolo, Joseph, Brooklyn, N. Y. Comb. 1,728,152; Sept. 10.
- De Beauvais, Georges M. G., assignor to G. J. Prat, Paris, France. Heat interchanger of the plate type. 1,705,471; Mar. 19.
- Debelack, Alexander F., Sheboygan, Wis. Baby conveyance. 1,741,014; Dec. 24.
- De Bellescize, Henri J. J. M. de R., Toulon, France. High-speed relay. 1,711,926; May 7.
- De Bellescize, Henri J. J. M. de R., Paris, France. Antiinterference radio signaling system. 1,722,789; July 30.
- Debenedetti, Rodolfo, assignor to Fabbrica Italiana di Penne a Serbatoio Aurora, Turin, Italy. Pencil. 1,714,418; May 21.
- Debenham, Arthur, and D. Gonta, Leney, Saskatchewan, Canada. Tie plate. 1,701,102; Feb. 5.
- De Bercegol, Raymond C. M., Lisieux, France. Device allowing the rapid and continuous drawing of parallel lines or bands, especially in view of making polychromatic screens for color photography. 1,706,774; Mar. 26.
- De Bersaques, Romain, Seattle, Wash. Direction signal. 1,732,794; Oct. 22.
- De Béthune, Gaston S. P., Brussels, Belgium. Mixer. 1,727,753; Sept. 10.
- De Blasio, Giuseppe. (See Rossati, G. M., and de Blasio.)
- De Blasio, James, Dunbar, Pa. Fireworks. 1,726,425; Aug. 27.
- De Blicquy, Julien. (See Callebaut, C., and De Blicquy.)
- Debo, Arno, Mannheim-Rheinau, Germany, assignor to Internationale Bergin-Compagnie voor Olie- en Kolen-Chemie, The Hague, Netherlands. Process and apparatus for splitting coal, oils, and other hydrocarbons. 1,704,792; Mar. 12.
- De Boer, Jan H. (See Van Arkel, A. E., and De Boer.)
- De Boer, Jan H., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Preparing fluorine. 1,728,230; Sept. 17.
- De Boer, Jan H., and A. E. Van Arkel, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Precipitating hafnium and zirconium on an incandescent body. 1,709,781; Apr. 16.
- De Boer, John H., Syracuse, N. Y. Bed stay. 1,734,616; Nov. 5.
- De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Wall pocket or similar article. Des. 79,348; Sept. 3.
- De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Wall pocket. 1,700,121; Jan. 29.
- De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Wall pocket. 1,700,122; Jan. 29.
- De Boer, Rudolph, assignor to Grand Rapids Metalcraft Corporation, Grand Rapids, Mich. Combined ash receptacle and lighter mounting. 1,702,723; Feb. 19.
- Debose, Albert S., Los Angeles, Calif. Rotary well-drilling apparatus. 1,721,004; July 16.
- De Both, Franciscus C. J., deceased, by J. J. D. de Both, administrator, Nymegen, Netherlands. Applying or laying asphalt plates. 1,726,215; Aug. 27.
- De Both, Jacobus J. D., administrator. (See de Both, Franciscus C. J.)
- De Bothezat, George, New York, N. Y. Bifurcator. 1,702,632; Feb. 19.
- De Bracht, Joe, Everett, assignor of one-half to G. P. Gable, Altoona, Pa. Bottle opener. 1,728,787; Sept. 17.
- De Bracht, Joseph, assignor of one-half to R. B. Gable, Altoona, Pa. Amusement device. 1,709,660; Apr. 16.
- De Bretteville, Maude L., Coronado, Calif. Toy animal. Des. 77,675; Feb. 12.
- De Brey, Jan H. C., The Hague, Netherlands. Dehydrator for petroleum emulsions. 1,704,463; Mar. 5.
- De Brouckere, Leon, Brussels, Belgium, assignor to Naamloze Vennootschap Maatschappij tot Veraardiging van Snijmachines Volgens Van Berkel's Patent en van Andere Werktuigen, Rotterdam, Netherlands. Apparatus for attaching knife-edges to scale parts. 1,706,216; Mar. 19.
- Debs, Louis H., Chicago, Ill. Multiple baking pan. 1,730,919; Oct. 8.
- Debski, Frank, New York, N. Y. Chair. Des. 79,283; Aug. 27.
- Debus, Sander, Hastings, Nebr. Pan-greasing machine. 1,724,643; Aug. 13.
- Debus, Sander, Hastings, Nebr. Spray nozzle. 1,727,464; Sept. 10.
- Decca-Disc Phonograph Company. (See Moore, William R., Jr., assignor.)
- De Camp, Merrill O., Jackson, Mich. Parking mechanism. 1,740,920; Dec. 24.



- De Castro é Iznaga, Sergio, F., deceased, Habana, Cuba; Juan de Castro y Plans and Carmen Yznaga y Ruiz, heirs. Shock-absorber wheel. 1,707,256; Apr. 2.
- De Castro é Iznaga, Sergio F., deceased, Habana, Cuba; J. de Castro y Plans and C. Iznaga y Ruiz, heirs. Combination lock and key. 1,720,838; July 16.
- De Castro y Plans, Juan, et al., heirs. (See de Castro é Iznaga, Sergio F.)
- Decaux, Leopold R., Paris, France. Loud-speaking device. 1,715,057; May 28.
- Decca Gramophone Company Limited, The. (See Cozens, George A., assignor.)
- Decelco, Inc. (See Nicholay, Paul, assignor.)
- De Cew, Judson A., New York, N. Y. Paper-making method and apparatus. 1,704,728; Mar. 12.
- De Cew, Judson A., assignor to Process Engineers, Incorporated, New York, N. Y. Hydration by pump pressure. 1,704,533; Mar. 5.
- Dech, Harry J., Philadelphia, Pa. Milk-bottle protector. 1,718,118; June 18.
- De Cicco, Guy, Cincinnati, Ohio. Pressing machine. 1,716,118; June 4.
- Deckard, Charles L., Kansas City, Mo. Securing metal end couplings on tubular members. 1,735,563; Nov. 12.
- Deckel, Friedrich, Fabrik für Präzisionsmechanik und Maschinenbau. (See Braren, Lorenz K., assignor.)
- Decker, Alonzo G. (See Black, S. D., and Decker.)
- Decker, Alonzo G., assignor to The Black and Decker Manufacturing Company, Towson, Md. Casing for portable power-driven tool. Des. 77,593; Jan. 29.
- Decker, Alonzo G., assignor to The Black and Decker Manufacturing Company, Towson, Md. Casing for an Electric Hammer or Similar Article. Des. 77,676; Feb. 12.
- Decker, Alonzo G., assignor to The Black and Decker Manufacturing Company, Towson, Md. Casing for an electric hammer or similar article. Des. 77,937; Mar. 12.
- Decker, Alonzo G., Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Screw driver and wrench. 1,711,520; May 7.
- Decker, Alonzo G., Baltimore County, assignor to The Black and Decker Manufacturing Company, Towson Heights, Md. Switch. 1,741,406; Dec. 31.
- Decker, Chester J., Toronto, Ontario, Canada. Signal attachment for telephones. 1,720,668; July 16.
- Decker, Elson, Dart, Ohio. Pump jack. 1,721,005; July 16.
- Decker, Frank L., Maywood, Ill. Stage-floor pocket. 1,732,553; Oct. 22.
- Decker, George, assignor to The Philad Company, Cleveland, Ohio. Heater handle. Des. 78,968; July 16.
- Decker, Grover H. and H. A., Toledo, Ohio. Internal-combustion motor. 1,707,052; Mar. 26.
- Decker, Harry R., Houston, Tex. Pipe cutting and threading attachment for rotaries. 1,722,627; July 30.
- Decker, Homer A. (See Decker, Grover H. and H. A.)
- Decker, James M., et al. (See Jones, Albert, assignor.)
- Decker, James W., New York, N. Y. Stock-quotation-projecting machine cabinet. Des. 79,637; Oct. 22.
- Decker, James W., assignor to News Projection Corporation, New York, N. Y. News-projecting machine. 1,717,838; June 18.
- Decker, John R., La Junta, Colo. Drill. 1,727,752; Sept. 10.
- Decker, Lemuel B., Kenogami, Quebec, Canada. Apparatus for straining pulp. 1,731,193; Oct. 8.
- Decker, Otis M., McPherson, Kans. Cable guide and track guard for tractors. 1,697,970; Jan. 8.
- Decker, Theodore H., Highland Park, Ill. Golf driving recorder. 1,717,763; June 18.
- Decker, Theodore H., Highland Park, Ill. Golf game board. 1,736,523; Nov. 19.
- Decker, Theodore H., Highland Park, Ill. Registering mechanism for golf driving machines. 1,737,000; Nov. 26.
- Decker, William M., Buffalo, N. Y. Nursing bottle. 1,733,184; Oct. 29.
- Deckert, Danvers O. C., University City, Mo. Decorative candle and making the same. 1,704,729; Mar. 12.
- De Coninck, Arthur, Brussels, Belgium. Braking system. 1,698,781; Jan. 15.
- De Coninck, Arthur, Brussels, Belgium. Braking system. 1,709,661; Apr. 16.
- Decorative Company, The. (See Huppuch, Milton K., assignor.)
- De Correvont, Howard P., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Toilet-seat hinge. Des. 79,957; Nov. 26.
- De Costa, John B., Kansas City, Mo. Convertible drilling tool. 1,733,336; Oct. 29.
- De Costa, Leon, and W. Birns, New York, N. Y. Hair-cutting device. 1,697,721; Jan. 1.
- De Courten, Othmar, and O. Schaub, Basel, Switzerland. Advertising on cigarettes. 1,712,380; May 7.
- De Coutouly, Gustave C. (See Heising, R. A., and de Coutouly.)
- De Coutouly, Gustave C., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Receiving circuit. 1,717,010; June 11.
- De Coutouly, Gustave C., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Reactance device. 1,717,011; June 11.
- Dedge, John L., Port Orange, Fla. Wrench machine. 1,734,475; Nov. 5.
- Deemar, Henry V., St. Louis, Mo., assignor of one-half to H. H. Deemar, Los Angeles, Calif. Air circulator and heater. 1,724,752; Aug. 13.
- Deemar, Herbert H. (See Deemar, Henry V., assignor.)
- Dedmon, Robert, et al. (See Ingram, Clifton M., assignor.)
- Dedouch, Joseph A., Oak Park, Ill. Continuous ceramic furnace. 1,708,083; Apr. 9.
- Dedouch, Joseph A., Oak Park, Ill. Continuous ceramic furnace. 1,708,124; Apr. 9.
- Deeks, Hugh A., Pittston, Pa. Combined cigarette case and ash receptacle. 1,716,577; June 11.
- Deems, Edward M., Forest Hills, assignor to Railroad Accessories Corporation, New York, N. Y. Rail bond. 1,739,292; Dec. 10.
- Deems, Edward M., Forest Hills, and W. H. B. Lavarack, Pine Bush, assignors to Railroad Accessories Corporation, New York, N. Y. Rail bond. 1,739,293; Dec. 10.
- Deere & Company. (See Brown, Theophilus, assignor.)
- Deere & Company. (See Brown, T., and Strandlund, assignors.)
- Deere & Company. (See Carlson, Oscar F., assignor.)
- Deere & Company. (See Coultas, Wilbur J., assignor.)
- Deere & Company. (See Coultas, W. J., and Rusco, assignors.)
- Deere & Company. (See Holstein, John V., assignor.)
- Deere & Company. (See Neighbour, Leonard B., assignor.)
- Deere & Company. (See Paradise, Louis A., assignor.)
- Deere & Company. (See Paul, William L., assignor.)
- Deere & Company. (See Silver, Walter H., assignor.)
- Deere & Company. (See Storm, Albion, assignor.)
- Deere & Company. (See Strandlund, Carl G., assignor.)
- Deere & Company. (See Thomann, Frederick A., assignor.)
- Deere & Company. (See White, Charles E., assignor.)
- Deere & Company. (See White, Charles E., assignor.)
- Deere, John, Tractor Company. (See McCray, Harold E., assignor.)
- Deere, John, Tractor Company. (See Witry, Louis W., assignor.)
- Deering, August M., assignor of one-half to K. D. Clark, Chicago, Ill. Propeller. 1,733,251; Oct. 29.
- Deering, Lawrence E., Hollis Center, Me., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electrical transmission system. 1,724,915; Aug. 20.
- De Fazio, Joseph, Detroit, Mich. Attachment for musical instruments. 1,719,832; July 9.
- De Felice, Carlo, New York, N. Y., assignor to H. N. McMenimen, Scotch Plains, N. J. Apparatus for and process of making stemmed artificial-fruit bodies. 1,700,584; Jan. 29.
- Defenbaugh, Loyd F., Compton, Calif. Float valve. 1,710,410; Apr. 23.
- Defender Lock Co. (See Cohen, Sidney, assignor.)
- De Ferranti, Sebastian Z., assignor to Ferranti, Limited, Hollinwood, England. Electricity meter. 1,700,669; Jan. 29.
- De Ferranti, Sebastian Z., assignor to Ferranti, Limited, Hollinwood, England. Rotor of mercury bath electricity meters. 1,703,727; Feb. 26.
- Defbaugh, Mark A., assignor to Altofor Bros. Company, Peoria, Ill. Washing machine. 1,735,996; Nov. 19.
- Defbaugh, Nathan C. (See Little, D. G., and Defbaugh.)
- De Florez, Luis, Pomfret, Conn. Method and apparatus for flow control. 1,725,782; Aug. 27.
- De Florez, Luis, Pomfret, Conn. Apparatus for flow control. 1,725,783; Aug. 27.
- De Florez, Luis, Pomfret, Conn., assignor to The Texas Company, New York, N. Y. Apparatus for treating hydrocarbons. 1,715,643; June 4.
- De Florez, Luis, Pomfret, Conn., assignor to The Texas Company, Furnace. 1,717,334; June 11.
- De Florez, Luis, Pomfret, Conn., assignor to The Texas Company, New York, N. Y. Apparatus for flow control. 1,721,898; July 23.
- De Florez, Luis, Pomfret, Conn., assignor to The Texas Company. Apparatus and method of fuel burning. 1,729,763; Oct. 1.
- Defoe, Edward C. (See Gray, E. D., Scofield, and Defoe.)
- De Foe, Edward G., Chicago, Ill. Doorstop. 1,698,944; Jan. 15.
- De Forest, Charles, Yonkers, assignor to American Provident Corporation, New York, N. Y. Window-display device. 1,741,930; Dec. 31.
- De Forest, Edgar A., assignor to Gray Company, Inc., Minneapolis, Minn. Grease gun. 1,704,179; Mar. 5.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to General Talking Pictures Corporation. Motion-picture screen. 1,710,922; Apr. 30.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to General Talking Pictures Corporation. Producing talking-motion-picture films and apparatus used therefor. 1,716,033; June 4.
- De Forest, Lee, New York, N. Y., assignor to Utah Radio Products Company, Incorporated, Salt Lake City, Utah. Loud-speaker motor. 1,718,337; June 25.
- De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Company, Jersey City, N. J. Radio receiving apparatus. 1,720,544; July 9.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to General Talking Pictures Corporation. Photo-electric cell. 1,722,280; July 30.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to General Talking Pictures Corporation. Diffraction microphone. 1,726,289; Aug. 27.



- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to General Talking Pictures Corporation. Sound-reproducing device. 1,736,035; Nov. 19.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to General Talking Pictures Corporation. Sound actuated and producing device. 1,738,988; Dec. 10.
- De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone & Telegraph Company, Jersey City, N. J. Wireless telegraph and telephone system. 1,740,577; Dec. 24.
- De Forest, Lee, New York, and J. L. Reynolds, Astoria, N. Y., assignors, by mesne assignments, to General Talking Pictures Corporation. Acoustic apparatus. 1,701,911; Feb. 12.
- De Forest Radio Company. (See Elenschneider, John B., assignor.)
- De Forest Radio Telephone & Telegraph Company. (See De Forest, Lee, assignor.)
- De Forest Radio Telephone & Telegraph Co. (See Hunter Frederick L., jr., assignor.)
- De Forest Radio Telephone & Telegraph Co. (See Squire, Frank M., assignor.)
- De Francia, Alfredo, Paris, France. Luminous sign. 1,740,228; Dec. 17.
- De Francis, Joseph, Brooklyn, assignor to Consolidated Macaroni Machine Corporation, New York, N. Y. Macaroni press. 1,700,670; Jan. 29.
- De Francis, Joseph, Brooklyn, assignor to Consolidated Macaroni Machine Corporation, New York, N. Y. Macaroni press. 1,700,671; Jan. 29.
- De Francis, Joseph, Brooklyn, assignor to Consolidated Macaroni Machine Corporation, New York, N. Y. Macaroni press. 1,703,514; Feb. 26.
- De Francis, Joseph, Brooklyn, N. Y. Safety mechanism for hydraulic presses. 1,730,356; Oct. 8.
- Defranco, Vincenzo. (See Capito, P., and Defranco.)
- De Fries, Henry A. (See De Vries, R. P., and De Fries.)
- De Fries, Henry A., Albany, assignor to Ludlum Steel Company, Watervliet, N. Y. Molybdenum nitriding steels and nitriding same. 1,723,015; Aug. 6.
- De Fries, Walter, Wilkensburg, Pa. Furnace and operating the same. 1,740,288; Dec. 17.
- Degener, Gustave O., assignor to Royal Typewriter Company Inc., New York, N. Y. Typewriting machine. 1,732,399; Oct. 22.
- Degenhardt, William R. (See Boise, C. W., and Degenhardt.)
- Degenhart, Charles and J., Cambridge, Ohio. Auxiliary handle for levers of motor vehicles. 1,725,343; Aug. 20.
- Degenhart, John. (See Degenhart, Charles and J.)
- Degenring, Gustav, Elizabeth, N. J. Vulcanizing device. 1,698,717; Jan. 15.
- De George, Joe, Ashtabula, Ohio. Hat hanger. Des. 78,563; May 21.
- Degerth, John, assignor to Maskin- och Brobyggnads Aktiebolaget, Helsingfors, Finland. Separator. 1,704,658; Mar. 5.
- Degerth, John, assignor to Maskin- och Brobyggnads Aktiebolaget, Helsingfors, Finland. Gearing for revolving spindles. 1,721,433; July 16.
- De Giovanni, John, Brooklyn, assignor to Polymet Manufacturing Corporation, New York, N. Y. Electric-circuit-control device. 1,731,003; Oct. 8.
- De Giovanni, John, Brooklyn, assignor to Polymet Manufacturing Corporation, New York, N. Y. Electric material and making same. 1,738,044; Dec. 3.
- De Graaff, Antonius, Eindhoven, Netherlands, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Apparatus for cleaning wire. 1,731,843; Oct. 15.
- De Graer, Jules H., Brussels, Belgium. Internal-combustion engine. 1,699,228; Jan. 15.
- De Graff, Ellis A., assignor to Leather Makers' Process Company, Detroit, Mich. Leather-washing machine. 1,731,564; Oct. 15.
- De Grand, Alfred V., Alton, Ill. Roof arch or wall for combustion chambers. 1,698,395; Jan. 8.
- De Grasse, Daniel J., New York, N. Y. Collapsible gocart. 1,742,137; Dec. 31.
- De Groat, Charles T., Schenectady, N. Y., assignor to General Electric Company. Treating copper leading-in wires. 1,719,877; July 9.
- De Groote, August H. (See Kennedy, J. B., and De Groote.)
- Deguichard, Basil W., et al., executors. (See Champion, Albert.)
- DeGUIDE, Camille, Enghien, France. Recovering barium as barium carbonate from barium silicates. 1,697,722; Jan. 1.
- De Guire, Olfan. (See Mortenson, O., and De Guire.)
- De Hart, Charles B., Chicago, Ill. Production of a lubricant and the lubricant resulting from the employment of the process. 1,709,311; Apr. 16.
- De Hart, Edgar L., Chickasha, Okla. Skylight. 1,732,435; Oct. 22.
- De Haven, Hugh, New York, N. Y., assignor, by mesne assignments, to De Haven Razor Corporation. Razor. 1,718,219; June 25.
- De Haven, James R., Champaign, Ill. Duplex door. 1,742,027; Dec. 31.
- De Haven Razor Corporation. (See De Haven, Hugh, assignor.)
- Dehls, John C., et al. (See Gump, William, assignor.)
- Dehn, Joseph W., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,705,906; Mar. 19.
- Dehn, Joseph W., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Testing and test set. 1,733,585; Oct. 29.
- De Horvath, Zoltan, Riverside, Ill., assignor to The Eagle Picher Lead Company, Cincinnati, Ohio. Manufacturing black ash. 1,723,138; Aug. 6.
- Dehottay, Henri, Malmédy, Belgium. Utilizing carbonic acid. 1,727,865; Sept. 10.
- De Huff, Elizabeth W., Santa Fe, N. Mex. Doll. Des. 77,938; Mar. 12.
- Dehuff, Walter F., Glen Rock, Pa. Mixing machine. 1,733,945; Oct. 29.
- Dehuff, Walter F., assignor to Glen Mixer Company, Incorporated, Glen Rock, Pa. Mixing machine. Re17,215; Feb. 12.
- Deibel, Cyril P., Lakewood, assignor to General Dry Batteries, Incorporated, Cleveland, Ohio. Process and apparatus for forming connectors for dry cells. 1,739,506; Dec. 17.
- Deichsel, Stanislaus. (See Weyland H., and Deichsel.)
- Deike, Ulric C., Washington, D. C. Golf tee. 1,717,962; June 18.
- Deike, Ulric C., Washington, D. C. Golf-club rack. 1,719,360; July 2.
- Deike, Ulric C., Washington, D. C. Golf tee. 1,736,583; Nov. 19.
- Deimler, Ralph W., assignor of one-half to K. L. Peck, Topeka, Kans. Sanitary cover for milk containers. 1,705,452; Mar. 12.
- Deines, Jacob, Olmitz, Kans. Harrow-disk-supporting frame and shaft. 1,701,665; Feb. 12.
- Deiseroth, George E. (See Hegarty, W., and Deiseroth.)
- Deister, Emil, Fort Wayne, Ind. Vibrating screen. 1,717,498; June 18.
- Deister, Emil, Fort Wayne, Ind. Screen. 1,725,061; Aug. 20.
- Deitel, Benjamin B., Brooklyn, N. Y. Vanity case. Des. 77,677; Feb. 12.
- Deitel, Benjamin B., Brooklyn, N. Y. Novelty case. 1,715,820; June 4.
- Deitel, Benjamin B., Brooklyn, N. Y. Novelty case. 1,715,821; June 4.
- Deitel, Benjamin B., Brooklyn, N. Y. Combination novelty case. 1,739,890; Dec. 17.
- Deitz, Louis S., jr., Rifle, Colo. Process and apparatus for screening materials. 1,710,203; Apr. 23.
- De Jahn, Fredrik W., New York, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Producing ammonia by synthesis of its elements. 1,701,478; Feb. 5.
- De Jarnette, Henry W., assignor of one-half to J. C. Hol, Des Moines, Iowa. Ink distributor. 1,698,123; Jan. 8.
- De Jay Trading Corporation. (See De Journo, Ernest, assignor.)
- De Jon Electric Corporation. (See Patterson, Harry R., assignor.)
- De Jong, Harold, Long Island City, N. Y. Surface finisher. 1,714,350; May 21.
- De Jong, Jacques, Antwerp, Belgium. Cooling jacket of internal-combustion motors. 1,731,888; Oct. 15.
- De Journo, Ernest, New York, N. Y., assignor, by mesne assignments, to De Jay Trading Corporation. Apparatus for making articles of plastic composition by pressure die molding. 1,706,874; Mar. 26.
- De Karske, Alfred E., Milwaukee, Wis. Stem for lighting fixtures. 1,710,532; Apr. 23.
- De Kermor, Louis G., Edmonton, Alberta, Canada, assignor to Delway Heaters, Inc., New York, N. Y. Steam-generating means for oil burners. 1,716,430; June 11.
- Dekle, Thelma L., assignor to Cline Electric Manufacturing Company, Chicago, Ill. Controller for alternating-current motors. 1,706,443; Mar. 26.
- De Koning, Theodoor, Brooklyn, N. Y., assignor to General Electric Company. Meter-testing apparatus. 1,721,375; July 16.
- De la Barre de Nanteuil, Christian, Versailles, France. Heating system for all vehicles. 1,721,547; July 23.
- Delachaux, Clarence L., Gennevilliers, France. Iron oxides and their production. 1,702,250; Feb. 19.
- Delage, Gustave, Paris, assignor to Société Anonyme: Nieuport-Astra, Issy-les-Moulineaux, France. Wing surface used in aeronautics. 1,729,210; Sept. 24.
- Delalze, Paul C., New York, N. Y. Combined bottle and pedestal therefor. Des. 78,195; Apr. 9.
- De La Mare, Thomas, Salt Lake City, Utah. Noncorrodible composite pipe. 1,722,369; July 30.
- De La Mare, Thomas, Salt Lake City, Utah. Precast concrete metal-lined pipe. 1,741,049; Dec. 24.
- Delamere, Rudolf D., and V. G. Williams, Toronto, Ontario, Canada. Individually-power-driven shaft unit. 1,723,680; Aug. 6.
- Delaney, Homer A. (See Cox, L. S., and Delaney.)
- De Lancy, Imogene, New York, N. Y., assignor to Otis Company, Inc., Boston, Mass. Textile fabric. Des. 77,397; Jan. 8.
- De Lancy, Imogene, New York, N. Y., assignor to Otis Company, Inc., Boston, Mass. Textile fabric. Des. 77,398; Jan. 8.
- De Lancy, Imogene, New York, N. Y., assignor to Otis Company, Inc., Boston, Mass. Textile fabric. Des. 77,641; Feb. 5.



- De Lancy, Imogene, New York, N. Y., assignor to Otis Company, Inc., Boston, Mass. Textile fabric. Des. 77,642; Feb. 5.
- De Lancy, Imogene, New York, N. Y., assignor to Otis Company, Inc., Boston, Mass. Textile fabric. Des. 78,615; May 28.
- De Land, Robert E., Milwaukee, Wis. Radio receiving system. 1,721,146; July 16.
- Deland, Wendell E., Worcester, Mass. Liquid-fuel-burning apparatus. 1,722,735; July 30.
- Delaney, Paul, Darwin, Minn. Emergency tire. 1,721,006; July 16.
- Delaney, Ralph J. (See Simmons, J. J., and Delaney.)
- Delano, Howard A., York, Pa., assignor to American Chain Company, Inc. Bumper. 1,697,496; Jan. 1.
- Delano, Howard A., York, Pa., assignor to American Chain Company, Inc. Welding-current-control circuit. 1,710,723; Apr. 30.
- Delano, James K., Yonkers, N. Y. Loud-speaking telephone receiver. 1,703,926; Mar. 5.
- Delanoy, Frederick W. (See Parker, W. H., and Delanoy.)
- Delanoy, Frederick W., Rochester, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Liquid-dispensing apparatus. 1,715,539; June 4.
- Delany, Edward L., Brooklyn, N. Y. Flush-valve float. 1,726,016; Aug. 27.
- Delany, Edward L., Brooklyn, N. Y. Handle. 1,735,604; Nov. 12.
- Delany, Edward L., assignor to Delany Realty Corporation, Brooklyn, N. Y. Flush-valve float for flush tanks. 1,712,605; May 14.
- Delany, Edward L., assignor to Delany Realty Corporation, Brooklyn, N. Y. Mixing valve. 1,713,033; May 14.
- Delany Realty Corporation. (See Delany, Edward L., May 14.)
- Delapena, Stanley. (See Lawrence, Joseph L., assignor.)
- De Lapparent, Paul, Paris, France. Safety fastening device. 1,724,828; Aug. 13.
- De la Roza, Joaquin J., sr., Brooklyn, assignor to Bagasse Products Corporation, New York, N. Y. Alcohol and producing the same. 1,709,610; Apr. 16.
- De la Roza, Joaquin J., sr., Brooklyn, assignor to Bagasse Products Corporation, New York, N. Y. Manufacturing cellulose pulp. 1,721,376; July 16.
- Delas, Albert, Paris, France. Ejector and operating the same. 1,732,930; Oct. 22.
- De las Heras, Bernardo F., Madrid, Spain. Building stone. 1,719,261; July 2.
- De Laski & Thropp, Circular Woven Tire Company, The. (See Thropp, P. D., and Moreland, assignors.)
- De Laubenfels, Clarence R., Los Angeles, Calif. Weather strip. 1,701,321; Feb. 5.
- Delaval-Crow, Thomas C., assignor to The New Departure Manufacturing Company, Bristol, Conn. Bearing mounting. 1,697,050; Jan. 1.
- Delaval-Crow, Thomas C., assignor to The New Departure Manufacturing Company, Bristol, Conn. Bearing mounting. 1,736,966; Nov. 26.
- De Laval Separator Company, The. (See Bamford, Alfred C., assignor.)
- De Laval Separator Company, The. (See Chadburn, William R., assignor.)
- De Laval Separator Company, The. (See Cherry, George L., assignor.)
- De Laval Separator Company, The. (See Flowers, Alan E., assignor.)
- De Laval Separator Company, The. (See Forsberg, Erik A., assignor.)
- De Laval Separator Company, The. (See Haggood, Cyrus H., assignor.)
- De Laval Separator Company, The. (See Hulbert, John L., assignor.)
- De Laval Separator Company, The. (See Lindgren, Hans O., assignor.)
- De Laval Separator Company, The. (See McBerty, Ford H., assignor.)
- De Laval Separator Company, The. (See Miller, Theodore H., assignor.)
- De Laval Steam Turbine Company. (See Birmann, Rudolph, assignor.)
- Delavallée, Marcel, assignor to Société Anonyme des Ondes Dirigées, Paris, France. Radio signaling. 1,726,474; Aug. 27.
- Delavie, Frank J., and H. H. Blouch, assignors, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Anode. 1,709,523; Apr. 16.
- Delaware, Lackawanna & Western Coal Company. (See Eddy, Charles H., assignor.)
- Delco-Light Company. (See Baxter, Donald K., assignor.)
- Delco-Light Company. (See Buringer, G. A., and Warner, assignors.)
- Delco-Light Company. (See Dickey, Ernest, assignor.)
- Delco-Light Company. (See Federle, Joseph C., assignor.)
- Delco-Light Company. (See Keilholtz, L. S., and Barney, assignors.)
- Delco-Light Company. (See Kettering, C. F., and Buringer, assignors.)
- Delco-Light Company. (See Kettering, C. F., and Chryst, assignors.)
- Delco-Light Company. (See Lee, Ralph L., assignor.)
- Delco-Light Company. (See Replogle, J. B., and Lea, assignors.)
- Delco-Light Company. (See Schmieding, Warren H. F., assignor.)
- Delco Light Company. (See Starr, Frank F., assignor.)
- Delco-Light Company. (See Warner, Clarence, assignor.)
- Delco-Light Company. (See Wendt, Wesley E., assignor.)
- Delco-Remy Corporation. (See Asetline, Fred E., assignor.)
- Delco-Remy Corporation. (See Baker, Russell W., assignor.)
- Delco-Remy Corporation. (See Baker, R. W., and Shaw, assignors.)
- Delco-Remy Corporation. (See Bates, Ralph I., assignor.)
- Delco-Remy Corporation. (See Carter, John J., assignor.)
- Delco-Remy Corporation. (See Chryst, William A., assignor.)
- Delco-Remy Corporation. (See Critchfield, Robert M., assignor.)
- Delco-Remy Corporation. (See Elsey, George W., assignor.)
- Delco-Remy Corporation. (See Elsey, G. W., and Prescott, assignors.)
- Delco-Remy Corporation. (See Fitzsimmons, J. T., and Shrope, assignors.)
- Delco-Remy Corporation. (See Funston, Frederick D., assignor.)
- Delco-Remy Corporation. (See Haas, Nelson R., assignor.)
- Delco-Remy Corporation. (See Hahn, Louis G., assignor.)
- Delco-Remy Corporation. (See Hartzell, Herman L., assignor.)
- Delco-Remy Corporation. (See Hunt, J. H., and Fitzsimmons, assignors.)
- Delco-Remy Corporation. (See Kindl, Carl H., assignor.)
- Delco-Remy Corporation. (See Kroeger, Frederick C., assignor.)
- Delco Remy Corporation. (See Michel, Clarence A., assignor.)
- Delco-Remy Corporation. (See Norviel, Harry E., assignor.)
- Delco-Remy Corporation. (See O'Brien, William L., assignor.)
- Delco-Remy Corporation. (See Parker, L. O., and Shippy, assignors.)
- Delco-Remy Corporation. (See Perkins, Laurence M., assignor.)
- Delco-Remy Corporation. (See Pontis, William G., assignor.)
- Delco-Remy Corporation. (See Poole, Lora E., assignor.)
- Delco-Remy Corporation. (See Prescott, Frank H., assignor.)
- Delco-Remy Corporation. (See Riedel, Walter W., assignor.)
- Delco-Remy Corporation. (See Ripplingille, Edward V., assignor.)
- De l'Eau, John P., Los Angeles, Calif. Key case. 1,721,510; July 23.
- De Leeuw, Adolph L., Plainfield, N. J. Pressure-fluid-actuated indexing mechanism. 1,710,865; Apr. 30.
- De Leeuw, Adolph L., Plainfield, N. J. Transmission system. 1,732,122; Oct. 15.
- De Letto, Frank, and J. Fuhr, Chicago, Ill. Dirigible headlight. 1,740,810; Apr. 30.
- Deleu, Robert, Fairlawn, N. J. Controlling the warp in looms. 1,705,637; Mar. 19.
- Delgado, Manuel M., Habana, Cuba. Spring attachment. 1,716,431; June 11.
- Deli, Frank C., Chicago, Ill. Pencil. 1,708,915; Apr. 9.
- Deli, Frank C., and W. D. Groseclose, assignors to Autopoint Company, Chicago, Ill. Filling device for fountain pens. 1,733,780; Oct. 29.
- Deli, Frank C., and W. D. Groseclose, assignors to Autopoint Company, Chicago, Ill. Fountain pen. 1,733,781; Oct. 29.
- Deli, Frank C., assignor to Autopoint Company, Chicago, Ill. Pencil. 1,736,430; Nov. 19.
- Deli, Frank C., assignor to Autopoint Company, Chicago, Ill. Pencil. 1,738,173; Dec. 3.
- D'Elia, Joseph A., and S. D. Polsen, Bridgeport, Conn.; said Polsen assignor to said D'Elia. Oil burner. 1,711,140; Apr. 30.
- Deligianes, Thomas N., and A. A. Bourdes, Chicago, Ill., assignors, by mesne assignments, to G. D. Anthoulis, Gary, Ind. Napkin folding machine. 1,719,833; July 9.
- Deligianes, Thomas N., and A. A. Bourdes, Chicago, Ill., assignors, by mesne assignments, to G. D. Anthoulis, Gary, Ind. Napkin-folding machine. 1,729,998; Oct. 1.
- De-Lite-Us Spring Clasp Corporation, The. (See Fridolph, John S., assignor.)
- Della Riccia, Angelo, Brussels, Belgium. Direct-electric-current-regulating transformer. 1,697,661; Jan. 1.
- Dellenbarger, Charles E., Chicago, assignor to P. Carpenter, Glenview, Ill. Nut-cracking machine. 1,712,105; May 7.
- Dellheim, Isabel M., Chicago, Ill. Clothes-washing machine. 1,699,053; Jan. 15.
- Dellinger, John, Buffalo, N. Y. Hat and garment holder. 1,700,823; Feb. 5.
- Dellinger, Martin C. (See Kulp, Harry W., assignor.)
- Dellmuth, Enos B., Camden, N. J., assignor to C. Howard Hunt Pen Company, Display device. 1,708,055; Apr. 9.
- Delman, Inc. (See Morali, Charles, assignor.)
- Delmanhorst, Herman F., Louisville, Ky., assignor, by mesne assignments, to Niles Machine Company, Lebanon, N. H. Fuse plug. 1,738,174; Dec. 3.



- Delmanhorst, Herman F., assignor, by mesne assignments, to Louisville Frog, Switch & Signal Company, Louisville, Ky. Reflecting device. 1,741,100; Dec. 24.
- Del Mar, William A., Greenwich, Conn., assignor to Habirshaw Cable & Wire Corporation, New York, N. Y. Improving insulation of cables. 1,731,297; Oct. 15.
- Deloghia, Louis E., Agawam, assignor to Perkins Machine and Gear Company, Springfield, Mass. Straightening machine. 1,731,650; Oct. 15.
- Delon, Jules, Lyon, assignor of one-half to Compagnie Generale d'Electricite, Paris, France. Electric cable. 1,740,076; Dec. 17.
- Delonde, Emile, New York, N. Y. Oyster opener. 1,741,015; Dec. 24.
- De Long Hook and Eye Company, The. (See Bebel, Abraham, assignor.)
- De Long, James E. (See Fisher, J. B., and De Long.)
- De Long, James E., assignor to Waukesha Motor Company, Waukesha, Wis. Heating system. 1,719,321; July 2.
- De Long, Nelson, assignor to B. B. Salvaty, Chicago, Ill. Treating sheet material. 1,724,644; Aug. 13.
- De Long, Nelson, assignor to B. B. Salvaty, Chicago, Ill. Treating sheet material. 1,724,645; Aug. 13.
- De Longchamps, Joseph A., Montreal, Quebec, Canada. Closure for recipients. 1,703,575; Feb. 26.
- Deloraine, Edmond M., Blackheath, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,700,472; Jan. 29.
- De Lorenzi, Otto, Maplewood, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Pulverized-fuel burner. 1,736,903; Nov. 26.
- De Lorenzi, Otto, Maplewood, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Air-preheating device. 1,739,507; Dec. 17.
- De Lorme, Alfred C., Maplewood, assignor to National Electric Corporation, Newark, N. J. Trouble and inspection lamp. 1,705,239; Mar. 12.
- De Loss, Norman C., Cleveland Heights, Ohio. Loose-leaf binder. 1,700,196; Jan. 29.
- De Loss, Norman C., Shaker Heights, Ohio. Loose-leaf binder. 1,703,576; Feb. 26.
- De Loss, Norman C., Shaker Heights, Ohio. Door holder. 1,720,886; July 16.
- De los Santos, Valentin V., Manila, P. I. Direction signal for automobiles. 1,721,947; July 23.
- Delp, Christopher, Oakland, Calif. Oil can. 1,716,034; June 4.
- Delph, Andrew, Pottsville, Pa. Loud-speaker. 1,735,528; Nov. 12.
- Delphos Doll Company, The. (See Barber, William J., assignor.)
- Delphos Mop Company, The. (See Barber, William J., assignor.)
- Del Pilar, Loreto, Seattle, Wash. Vehicle signal. 1,735,895; Nov. 19.
- Del Riccio, Lorenzo, New York, N. Y., assignor to Paramount Famous Lasky Corporation, Los Angeles, Calif. Reflector arc. 1,714,242; May 21.
- Delta Electric Company. (See Bramming, Carl, assignor.)
- Delta Manufacturing Company, The. (See Tautz, Herbert E., assignor.)
- Delta-Star Electric Company, The. (See Alsaker, A., and Lurie, assignors.)
- Delta-Star Electric Company, The. (See Hampton, W. O., and Thompson, assignors.)
- Deltex Company, The. (See Chapin, E. S., and Jacoby, assignors.)
- Delthell, Robert, Toulouse, France. Liquid container. 1,732,595; Oct. 22.
- Dela, Felix, Brussels, Belgium. Ejection mechanism for sporting guns. 1,728,823; Sept. 17.
- De Luce, Robert, Los Angeles, Calif. Manufacture of hydraulic cement. 1,713,172; May 14.
- De Luxe Electric Lighter Company. (See Smith, Joseph L., assignor.)
- De Luxe Products Corporation, The. (See Warner, George C., assignor.)
- Del Valle, Carlos M., New York, N. Y. Trousers stretcher. 1,706,916; Mar. 26.
- Dely, Joseph G., Jamaica, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Purifying gases. 1,698,718; Jan. 15.
- Dely, Joseph G., assignor to Chemical Research & Designing Corporation, New York, N. Y. Copper coating. 1,735,000; Nov. 12.
- Dely, Joseph G., Syracuse, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Synthetic-ammonia process. 1,739,217; Dec. 10.
- Delway Heaters, Inc. (See de Kermor, Louis G., assignor.)
- De Madaler, Arthur. (See von Madaler, F., and De Madaler.)
- Demag Aktiengesellschaft. (See Idel, Hermann, assignor.)
- Demag Aktiengesellschaft. (See Jones, Ernest F., assignor.)
- De Man, Robert J., Antwerp, Belgium. Electric-current rectifier. 1,698,782; Jan. 15.
- Demand, Arthur G., Appleton, Wis. Safety switch for vehicle doors. 1,736,189; Nov. 19.
- Demarest, Charles S., Ridgewood, N. J., and R. S. Ohl, New York, N. Y., assignors to American Telephone and Telegraph Company. Radioantenna. 1,703,870; Mar. 5.
- Demarest, Sydney H., et al. (See Read, Frederick J., assignor.)
- Demaret, Omer, Marchienne-au-Pont, Belgium. Treating glass plates and the like to prevent moisture affecting their transparency. 1,705,453; Mar. 12.
- Dematteis, Julian, Batavia, Iowa. Funnel. 1,725,622; Aug. 20.
- De Mattia, Barthold, Clifton, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Tire-building core. 1,717,437; June 18.
- De Mattia, Barthold, Garfield, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Collapsible core. 1,730,760; Oct. 8.
- De Mattia, Berthold, Garfield, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Collapsible core. 1,735,955; Nov. 19.
- De Mattia, Peter, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Collapsible core. 1,718,636; June 25.
- De Mattia, Peter, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Collapsible core structure. 1,735,896; Nov. 19.
- De Meester, Casimir, Jr., Humboldt, Iowa. Rotary valve. 1,733,946; Oct. 29.
- Dement, Belle F., executrix. (See Dement, Isaac S.)
- Dement, Isaac S., Dayton, Ohio. Registering device. 1,725,978; Aug. 27.
- Dement, Isaac S., Dayton, Ohio, deceased; B. F. Dement, executrix. Registering device. 1,727,966; Sept. 10.
- De Mercurio, Giuseppe, Hammond, N. J. Window construction. 1,718,119; June 18.
- Demerling, John L., Stratford, Ontario, Canada. Illuminated stop sign. Des. 79,066; July 30.
- Demers, Telephone C., Windsor, Vt. Brake band for warp beams. 1,709,524; Apr. 16.
- De Mesquita, Julius B., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Safety razor. 1,729,657; Oct. 1.
- Deming, Adele L., Elizabeth, N. J. Dress protector. 1,734,157; Nov. 5.
- Deming, Chester E., Orlando, Fla. Jewel and pivot gauge for watchmakers. 1,711,724; May 7.
- Deming Company, The. (See Deming, William L., assignor.)
- Deming Company, The. (See Randolph, Alfred, assignor.)
- Deming, Martin P., Pasadena, Calif. Making pipe joints. 1,722,324; July 30.
- Deming, Robert, Cincinnati, Ohio. Removing liquid from wells. 1,697,856; Jan. 8.
- Deming, Robert, Cincinnati, Ohio. Well pump. 1,723,682; Aug. 6.
- Deming, William L., assignor to The Deming Company, Salem, Ohio. Spray gun. 1,704,498; Mar. 5.
- Deming, William L., assignor to The Deming Company, Salem, Ohio. Lawn sprinkler. 1,737,832; Dec. 3.
- De Mole, Lancelot E., Cremorne, near Sydney, New South Wales, Australia. Changing sign and display apparatus. 1,737,573; Dec. 3.
- De Monthy, Henry. (See Berthelémy, Pierre, assignor.)
- Demorest, Leroy A., Columbus, Ohio. Corn-shocking machine. 1,702,500; Feb. 19.
- De Mott, John W., Los Angeles, Calif. Bathroom construction. 1,697,229; Jan. 1.
- Demozzi, Joseph. (See Cummins, Herbert L., assignor.)
- Dempewolf, Carl and H. Mager, Brunswick, Germany. Band saw. 1,704,428; Mar. 5.
- Dempsey, Charles H., assignor of one-half to W. H. Hartwell, Los Angeles, Calif. Box distributor for fruit-packers' conveyors. 1,710,969; Apr. 30.
- Dempsey, James B., Washington, D. C. Process and mechanism for connecting electrical conductors. 1,705,964; Mar. 19.
- Dempsey, Ralph W., Elkland, Pa., assignor to E. H. Ellison, Jr., Newton, Mass. Safety device for mechanically-operated rolls. 1,707,514; Apr. 2.
- Dempster Mill Manufacturing Company. (See Elliott, William, assignor.)
- Demuth, William & Company. (See Bense, Duryea, assignor.)
- Demuth, William, & Company. (See Person, Axel, assignor.)
- De Nardo, Peter, Midland, Pa. Stove. 1,699,054; Jan. 15.
- Denaro, James, Cambridge, Mass. Edible container. Des. 77,893; Mar. 5.
- Deneen, John M., Chicago, Ill. Spirit level. 1,712,201; May 7.
- De Neergaard, Leif E., Chicago, Ill., assignor to International Combustion Engineering Corporation. Transporter. 1,731,455; Oct. 15.
- Dengate, Harry W., Bedford, Ohio. Carburation means. 1,703,515; Feb. 26.
- Dengler, F. Peter, Inc. (See Shostak, Louis, assignor.)
- Denham, Reginald I. (See Gale, Walter G., assignor.)
- Denhof, Charles E., Clovis, N. Mex. Electric stamping device. 1,731,651; Oct. 15.
- Denison, Frederick S., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electric switch and operating same. 1,716,951; June 11.
- Denison, Frederick S., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Circuit maker and breaker. 1,732,182; Oct. 15.
- Denison, Frederick S., and L. L. Cunningham, assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Heat-regulating device. 1,727,308; Sept. 3.



- Denison, George W., Bay Village, Ohio. Brick kiln. 1,721,774; July 23.
- Denison, George W., Bay Village, Ohio. Method of and apparatus for distributing pulverized fuel. 1,741,184; Dec. 31.
- Denison, Julian F., and H. F. Hobson, New Haven, Conn.; said Denison assignor to said Hobson. Pumping liquid fuels. 1,719,501; July 2.
- Denitson, John J., jr., Castle Hayne, N. C. Pulverizer. 1,714,852; May 28.
- Denk, Emil S., Villa Park, Ill. Attaching means for tile. 1,728,231; Sept. 17.
- Denley, Horace S. (See Bickford, O. L., and Denley.)
- Denman, James F. (See Gehring, L. C., and Denman.)
- Denman, Rene E., Kansas City, Mo. Container for poma-de. 1,727,636; Sept. 10.
- Dennire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Air bag. 1,698,676; Jan. 8.
- Dennire, Harold A., assignor to The General Tire and Rubber Company, Akron, Ohio. Tire-making machine. 1,715,644; June 4.
- Dennire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Apparatus for the manufacture of tire casings. 1,723,968; Aug. 6.
- Dennire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Stock pick-up for fabric-cutting machines. 1,731,713; Oct. 15.
- Dennire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Tire-building core. 1,732,931; Oct. 22.
- Denne, Mark T., London, England. Machine for pressing or leveling the soles of boots and shoes. 1,698,910; Jan. 15.
- Denne, Mark T., London, England. Lock-stitch sewing machine. 1,715,822; June 4.
- Denne, Mark T., Highgate, London, England. Power bed-lasting machine. 1,719,653; July 2.
- Denner, Norman. (See Scholefield, F., and Denner.)
- Denner, Norman H., Lakewood, Ohio. Casting machine. 1,737,001; Nov. 26.
- Denney, Milo, Tipton, Mich. Strainer and dirt collector. 1,714,300; May 21.
- Denning, Frank J. (See Raynes, H. J., and Denning.)
- Denning, J. Wayne, Joliet, assignor to J. P. Distler, trustee, Peoria, Ill. Slat-fence machine. 1,709,465; Apr. 16.
- Denning, James M., assignor to The Conneaut Shovel Company, Conneaut, Ohio. Shovel. 1,714,592; May 28.
- Denning, Patrick F., Cleveland Heights, Ohio. Switch. 1,729,929; Oct. 1.
- Dennis, Claude J., and J. E. Pearce, Dallas, Tex. Advertising device. 1,741,050; Dec. 24.
- Dennis, Douglas B., and C. Wilson, Taft, Calif. Fluid elevator. 1,730,662; Oct. 1.
- Dennis, Edwin L., Reserve, La. Hydrometer. 1,701,404; Feb. 5.
- Dennis, Elmer L., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Dough blender. 1,735,236; Nov. 12.
- Dennis, Elmer L., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Garden tool. 1,735,237; Nov. 12.
- Dennis, John E., London, Ontario, Canada. Metal window construction. 1,710,724; Apr. 30.
- Dennis, John R., assignor to International Braid Company, Providence, R. I. Lacing tip. 1,730,809; Oct. 8.
- Dennis, K. W., et al. (See Brown, William S., assignor.)
- Dennis, R. H., et al. (See Thompson, Hans, assignor.)
- Dennis, Samuel K., assignor to International Harvester Company, Chicago, Ill. Planter feed mechanism. 1,709,565; Apr. 16.
- Dennis, Samuel K., assignor to International Harvester Company, Chicago, Ill. Manure-spreader-driving mechanism. 1,721,691; July 23.
- Dennis, Samuel K., assignor to International Harvester Company, Chicago, Ill. Planter valve mechanism. 1,725,446; Aug. 20.
- Dennis, Samuel K., Chicago, and B. R. Benjamin, Oak Park, Ill., assignors to International Harvester Company. Check-row planter. 1,709,566; Apr. 16.
- Dennis, William J., Chicago, Ill. Automatic door draft stop. 1,699,611; Jan. 22.
- Dennis, William J., Chicago, Ill. Weather stripping. 1,713,268; May 14.
- Dennis, William J., Chicago, Ill. Metal weather stripping. 1,734,118; Nov. 5.
- Dennis, Willard W., Los Angeles, Calif. Fan. 1,725,344; Aug. 20.
- Dennison, Charles, H., Quincy, assignor to American Rubber Company, East Cambridge, Mass. Imitation leather. 1,713,746; May 21.
- Dennison, French E., assignor to National Refrigeration Corporation, Beloit, Wis. Refrigerating counter. 1,735,495; Nov. 12.
- Dennison Manufacturing Company. (See Flood, Carl A., assignor.)
- Dennison Manufacturing Company. (See Garniss, Arthur L., assignor.)
- Dennison Manufacturing Company. (See Saylor, Galen H., assignor.)
- Dennison, Robert L., Kansas City, Mo. Deep-well pump. 1,711,086; Apr. 30.
- Dennison, Robert L., Kansas City, Mo. Ore jig. 1,726,388; Aug. 27.
- Dennison, Robert L., Kansas City, Mo. Carburetor. 1,730,410; Oct. 8.
- Dennison, Robert L., Kansas City, Mo. Power-transmission gearing. 1,738,695; Dec. 10.
- Denniss, Alfred J., Chingford, and V. W. Edwards, Walthamstow, London, assignors to The Houghton-Butcher Manufacturing Company Limited, London, England. Film-pressure plate or pad for photographic cameras. 1,709,782; Apr. 16.
- Denniston, Adolph L. and E. S. Ostler, assignors to Stromberg Electric Company, Chicago, Ill. Control device for secondary clocks. 1,728,175; Sept. 17.
- Denny, Hosea N., Los Angeles, Calif. Coffee-percolator top. 1,717,963; June 18.
- Denny, James J., Schumacher, Ontario, Canada. Crushing machine. 1,704,823; Mar. 12.
- De Normanyville, Edgar J., London, England. Variable-velocity ratio gearing of the sun and planet wheel type. 1,717,097; June 11.
- De Northall, Adrian G., Indianapolis, Ind. Saw. 1,710,970; Apr. 30.
- Densmore, Albert A., Brookline, Mass., assignor to Eclipse Machine Company, Elmira Heights, N. Y. Engine starter. 1,700,216; Jan. 29.
- Denson, Thomas M., and C. F. Willsie, Spokane, Wash. Adjustable chair. 1,713,034; May 14.
- Densten Felt & Hair Co. (See Densten, John J., assignor.)
- Densten, John J., assignor to Densten Felt & Hair Co., Inc., Philadelphia, Pa. Gun-wad material. 1,735,639; Nov. 12.
- Dent Hardware Co., The. (See Schrader, Thomas O., assignor.)
- Dentist's Supply Company of New York, The. (See Richmond, John E., assignor.)
- Denton, Gilbert H. (See Humphreys, I. B., and Denton.)
- Denton, Sherman J., La Junta, Colo. Valve lifter. 1,718,120; June 18.
- Denton, Sherman J., La Junta, Colo. Spring compressor. 1,718,121; June 18.
- Denton, William L., Randsburg, Calif. Electric compress heater. 1,703,993; Mar. 5.
- De Nune, Clarence L., Mifflin Township, Franklin County, Ohio. Wireless seed planter. 1,728,399; Sept. 17.
- Denver Rock Drill Mfg. Co., The. (See Skaer, Arthur H., assignor.)
- Denyes, Harry M., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering-gear assembly. 1,703,301; Feb. 26.
- Denzer, Ludwig, Hamburg, Germany. Paper holder for typewriters. 1,736,112; Nov. 19.
- Deodato, Edouard, Alexandria, Egypt. Apparatus employing gasified liquid fuel. 1,697,054; Jan. 1.
- Deoune, Leon C., Marseille, France, assignor to Societe Anonyme des Ateliers Armand & Deoune. Automatic hydraulic press. 1,724,184; Aug. 13.
- De Pampillis, Gennaro, New York, N. Y. Paper-scoring device. 1,709,564; Apr. 16.
- De Pento, Nicola, Calabasas, Calif. Bather's amusement device. 1,718,637; June 25.
- Depfer, William. (See Arbuckle, J. B., and Depfer.)
- Depler, John H., Columbus, Ohio. Identification panel. 1,704,534; Mar. 5.
- Deppé, William P. (See Strong, William E. S., assignor.)
- Deppé, William P., Brightwaters, N. Y. Internal-combustion engine. 1,697,385; Jan. 1.
- Deppeler, John H., Weehawken, N. J. Locking rail ends. 1,699,691; Jan. 22.
- Deppeler, John H., Weehawken, N. J. Welding railway rails and the like. 1,721,548; July 23.
- Deppeler, John H., Weehawken, N. J. Welding rails under traffic. 1,728,232; Sept. 17.
- De Procoudine-Gorsky, Serge, and N. Pozniakow, assignors to Societe de Photochimie "Elka," Nice, France. Rendering gelatin insoluble and its application to various arts. 1,709,569; Apr. 16.
- Dequer Appliance Corporation of Arizona. (See Dequer, John H., assignor.)
- Dequer, John H., Los Angeles, Calif., assignor to Dequer Appliance Corporation of Arizona, Phoenix, Ariz. Therapeutic blanket or the like. 1,708,875; Apr. 9.
- Deragowski, August, Parsons, Kans. Bank protector. 1,721,948; July 23.
- Deray Manufacturing Corporation. (See De Veau, Harry R., assignor.)
- Derby, Ashton P., assignor to P. Derby & Co., Inc., Gardner, Mass. Chair or similar article. Des. 77,816; Feb. 26.
- Derby, Ashton P., assignor to P. Derby & Co., Inc., Gardner, Mass. Chair or similar article. Des. 77,817; Feb. 26.
- Derby, Augustus W., Scotia, N. Y., assignor to Schenectady County Specialty Co. Receptacle and holder therefor. 1,703,516; Feb. 26.
- Derby Company, The. (See Lumley, Charles R., assignor.)
- Derby, Ira H., assignor to P. C. Reilly, Indianapolis, Ind. Pickling iron and steel. 1,729,097; Sept. 24.
- Derby, Ira H., and K. R. Davis, said Derby assignor to P. C. Reilly, Indianapolis, Ind. Purification of hydrocarbons. 1,727,052; Sept. 3.
- Derby, P., & Co. (See Derby, Ashton P., assignor.)
- Derbyshire, Frederick W., Chicago, Ill. Door guard. 1,722,736; July 30.
- Derbyshire, George H., Germantown, Pa. Holding device. 1,737,151; Nov. 26.



- Derbyshire, William H., jr., assignor to Chambersburg Engineering Company, Chambersburg, Pa. Wheel mounting and demounting press. 1,707,905; Apr. 2.
- De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Cord set. 1,718,537; June 25.
- De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Trigger switch. 1,723,016; Aug. 6.
- De Reamer, William J. (See Coil, W. D., and De Reamer.)
- De Remer, Jay G., Greenwich, Conn., assignor to Savage-De Remer Corporation, New York, N. Y. Purifying mercury. 1,707,471; Apr. 2.
- De Remer, Jay G., Greenwich, Conn., assignor to Savage-De Remer Corporation, New York, N. Y. Compressor. 1,733,782; Oct. 29.
- De Remer, John T., et al. (See Krödel, Frank J., assignor.)
- Deren, Charles H., assignor to O. E. Tepe, Brooklyn, N. Y. Tire gauge. 1,701,228; Feb. 5.
- Deren, Charles H., assignor to O. E. Tepe, Brooklyn, N. Y. Tire gauge. 1,724,567; Aug. 13.
- De Robillard, Réginald, Tananarive, Madagascar. Flotation machine for graphite and other minerals. 1,720,264; July 9.
- De Rochemont, J. A., et al. (See Berg, Alfred J., assignor.)
- De Rohden, Charles, Baltimore, Md., assignor to Commercial Pigments Corporation, New York, N. Y. Production of titanium tetrachloride. 1,707,257; Apr. 2.
- De Roo, William C., assignor to The Drees Machine Tool Co., Cincinnati, Ohio. Radial drilling machine. 1,715,321; May 28.
- De Roo, William C., Cincinnati, and J. E. Larsh, Cheviot, assignors to The Drees Machine Tool Co., Cincinnati, Ohio. Head-clamping device. 1,715,320; May 28.
- De Roos, Frank, Springfield, S. Dak. Loading chute. 1,723,469; Aug. 6.
- De Ropp, Harald. (See Burke, W. E., and de Ropp.)
- De Rose, Joseph, Philadelphia, Pa. Water-closet. 1,719,425; July 2.
- De Roy, Frank, Round Bay, Md. Minnow trap. 1,731,191; Oct. 8.
- Derr, David C., Shamokin, Pa. Fishing-line signal. 1,737,921; Dec. 3.
- Derr, Rudlf. (See Egli, E., and Derr.)
- Derryberry, Raymond B., Anniston, assignor of one-half to E. Fies, Birmingham, Ala. Air-relief valve. 1,698,990; Jan. 15.
- Derschug, John N., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Clothes-washing machine. 1,717,335; June 11.
- Dersen, Heinrich, St. Tonis, assignor to the Firm Maschinenfabrik Carl Zangs Aktiengesellschaft, Krefeld, Germany. Drive for dobby and Jacquard looms. 1,728,824; Sept. 17.
- Derwin, William. (See Jones, J., and Derwin.)
- Derzis, N., trustee. (See Frye, Lawrence B., assignor.)
- De Santis, Gaetano, Grantwood, N. J. Edge turner. 1,723,543; Aug. 6.
- De Saulles, Charles A. H., Westbury, N. Y., assignor to American Smelting and Refining Company, New York, N. Y. Recovering zinc oxide. 1,712,553; May 14.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Sectional repair bag. 1,737,110; Nov. 26.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for marking rubber and rubberized material. 1,737,111; Nov. 26.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tread-rolling device. 1,740,579; Dec. 24.
- Desaye, Athelme, Clifton, N. J. Speed boat. 1,736,904; Nov. 26.
- Deschere, Paul R., New York, N. Y., assignor to The De Seguirant, Justin, Honolulu, Hawaii. Automobile lock. 1,706,352; Mar. 19.
- De Segundo, Edward C., assignor to Residual Cotton Seed Fibres, Limited, London, England. Apparatus for defibrating cottonseed and the like. 1,733,947; Oct. 29.
- Desemo, Joseph F., Coffeyville, Kans. Magazine pencil. 1,706,399; Mar. 26.
- Des Enfants, Edward, sr., assignor to Handy Things Manufacturing Company, Ludington, Mich. Glass scraper. 1,726,017; Aug. 27.
- Des Enfants, Edward, sr., assignor to Handy Things Manufacturing Company, Ludington, Mich. Safety device for punch presses. 1,738,872; Dec. 10.
- Desha, Orville U., Fort Collins, Colo. Key action for typewriting and other key-operating machines. 1,697,415; Jan. 1.
- Desha, Orville U., Fort Collins, Colo. Key action for typewriter and other machines. 1,697,416; Jan. 1.
- Desha, Orville U., Fort Collins, Colo. Key action for typewriting and other key-operating machines. 1,697,417; Jan. 1.
- Desha, Orville U., assignor of one-fifth to The Desha Typelex Trust Estate, Fort Collins, Colo. Key action for typewriters and other machines. 1,721,857; July 23.
- Desha, Orville U., assignor of one-fifth to The Desha Typelex Trust Estate, Fort Collins, Colo. Key action for typewriting and other key-operating machines. 1,722,954; July 30.
- Desha, Orville U., assignor of one-fifth to The Desha Typelex Trust Estate, Fort Collins, Colo. Key action for typewriter and other machines. 1,722,955; July 30.
- Desha, Orville U., assignor of one-fifth to The Desha Typelex Trust Estate, Fort Collins, Colo. Key action for typewriting and other key-operating machines. 1,722,956; July 30.
- Desha, Orville U., assignor of one-fifth to The Desha Typelex Trust Estate, Fort Collins, Colo. Key action for typewriters and other machines. 1,723,725; Aug. 6.
- Desha Typelex Trust Estate, The. (See Desha, Orville U., assignor.)
- De Shon, Clarence L., Kansas City, Mo. Cigarette tip. 1,713,122; June 18.
- Design Laboratories. (See Wilson, E. B., and Spencer, assignors.)
- De Simone, Michele G., Stapleton, N. Y. Variable-oscillation condenser. 1,713,538; June 25.
- De Simone, Michele G., Stapleton, N. Y., assignor to F. A. Hutson, New York, N. Y. Squeezer. 1,726,544; Sept. 3.
- Des Jardins, Benjamin M., West Hartford, Conn. Refrigerating apparatus and process for refrigeration. 1,719,692; July 2.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,698,880; Jan. 15.
- Deslauriers, Alfred M., assignor to Deslauriers Metal Products Company, Detroit, Mich. Clamp. 1,696,905; Jan. 1.
- Deslauriers Metal Products Company. (See Deslauriers, Alfred M., assignor.)
- De Smet, Edgard C. (See Marshall, W., and De Smet.)
- De Smith, Henry, assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-forming machine. 1,698,260; Jan. 8.
- De Smith, Henry, and D. Church, assignors to M. D. Knowlton Company, Rochester, N. Y. Tube-cutting machine. 1,698,261; Jan. 8.
- Desmond, Daniel, assignor to American Optical Company, Southbridge, Mass. Display device. 1,722,518; July 30.
- Desmond, James J., South Norwalk, Conn. Hat. 1,721,269; July 16.
- Desmond, James J., South Norwalk, Conn. Hat. 1,729,540; Sept. 24.
- Desmond, Matthew F., Burlingame, Calif. Sandwich-bread slice-cutter mold. 1,741,682; Dec. 31.
- De Spain, Louis B., Caldwell, Idaho. Syringe. 1,716,539; June 11.
- Despang, Johannes, Frankenberg, Germany. Leg-former for boots for hunters and motorcyclists. 1,726,889; Sept. 3.
- Despard, Victor R., and H. C. R. Popp, Valparaiso, Ind., assignors to McGill Manufacturing Company. Switch-operating means. 1,711,521; May 7.
- Despard, Victor R., and H. C. R. Popp, Valparaiso, Ind., assignors to McGill Manufacturing Company. Connecting block for electric-light clusters. 1,736,779; Nov. 26.
- Despard, Victor R., and H. C. R. Popp, Valparaiso, Ind., assignors to McGill Manufacturing Company. Contact-terminal mounting. 1,738,140; Dec. 3.
- Despres, Raul, Detroit, Mich. Radiator core. 1,720,669; July 16.
- Despret, Georges P., Paris, assignor to Compagnies Réunies des Glaces & Verres Speciaux du Nord de la France, Boussois S/Sambre, France. Polishing disk. 1,739,294; Dec. 10.
- Desrochers, Louis, Montreal, Quebec, Canada. Power-transmission gear. 1,702,688; Feb. 19.
- Desrosiers, Elzear, Methuen, Mass. Clothes drier. 1,733,485; Oct. 29.
- Des Rosiers, John B., Providence, R. I. Golf ball. Des. 79,458; Sept. 24.
- Dessauer, Friedrich, Frankfurt-on-the-Main, Germany. Electron-discharge tube and manufacturing the same. 1,720,172; July 9.
- Dessauer, Friedrich, and W. Petersen, Frankfurt-on-the-Main, and E. Welter, Darmstadt, Germany. Electromagnetic induction apparatus. 1,732,715; Oct. 22.
- Dessauer, Norman, assignor to The International Seal & Knot Protector Co., New York, N. Y. Knot protector. 1,727,754; Sept. 10.
- D'Este, Julian, Co. (See Bezanson, George, assignor.)
- De Stoop, Aimee, Aberdeen, Wash. Suspension hook. 1,712,875; May 14.
- Destrée, Charles A., Modjokerto, Java, Dutch East Indies. Automatic weighing device for liquids. 1,707,389; Apr. 2.
- Destrée, Joseph, Brussels, Belgium. Firearm. 1,713,954; May 21.
- Destrée, Joseph, Brussels, Belgium. Automatic firearm. 1,713,955; May 21.
- Destree, Joseph, Brussels, Belgium. Automatic firearm. 1,735,160; Nov. 12.
- De Tar, Donald R., Schenectady, N. Y., assignor to General Electric Company. Variable condenser. 1,706,148; Mar. 19.
- Detex Watchclock Corporation. (See Beyer, Alois, assignor.)
- Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Sem, Mathias O., assignor.)
- Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Sem, M. C., and Söderburg, assignors.)



- De Tóvaros, Julius F., Budapest, Hungary. Sliding current collector for electric vehicles. 1,723,139; Aug. 6.
- De Tóváros, Julius F., Budapest, Hungary. Sliding current collector for electric vehicles. 1,727,274; Sept. 3.
- Detrick, M. H., Company. (See Ellman, Louis, assignor.)
- Detrick, M. H., Company. (See Hosbein, Louis H., assignor.)
- Detroit Anchor Company, The. (See Colvin, Benjamin F., assignor.)
- Detroit and Security Trust Company. (See Bornholt, Oscar C., assignor.)
- Detroit and Security Trust Company, administrator. (See Copland, Alexander W.)
- Detroit and Security Trust Company. (See Copland, A. W., and Mathewson, assignors.)
- Detroit and Security Trust Company. (See Root, Frank T., assignor.)
- Detroit and Security Trust Company. (See Smith, Frederick A., assignor.)
- Detroit Drop Hammer Board Co., (See Teakle, Robert T., assignor.)
- Detroit Gear & Machine Company. (See Blood, Howard E., assignor.)
- Detroit Harvester Company. (See Otwell, Ralph B., assignor.)
- Detroit Lubricator Company. (See Duffield, George B., assignor.)
- Detroit Lubricator Company. (See Weber, Walter H., assignor.)
- Detroit Patents Holding Company. (See Haggart, John C., Jr., assignor.)
- Detroit River Iron Works. (See Henderson, James F., assignor.)
- Detroit Steel Products Company. (See Barclay, Gustaf I., assignor.)
- Detroit Steel Products Company. (See Horton, Clyde E., assignor.)
- Detroit Steel Products Company. (See Neff, Russell M., assignor.)
- Detroit Steel Products Company. (See Rumney, Mason P., assignor.)
- Detroit Steel Products Company. (See Wardwell, Harold F., assignor.)
- Detroit Trust Company, et al., executors. (See Champion, Albert.)
- Detroit Trust Company, The, executor. (See Dean, Vernon M.)
- Detwiler, Floyd M., Compton, Calif. Automatic control mechanism for drilling rigs. 1,704,464; Mar. 5.
- Detwiler, Forest V., Chicago, Ill. Cooking apparatus. 1,731,769; Oct. 15.
- Detwiler, Forest V., Chicago, Ill. Cooking utensil. 1,732,554; Oct. 22.
- Detwiler, Forest V., Chicago, Ill. Cooking utensil. 1,733,450; Oct. 29.
- Detwiler, Homer H., assignor to The Enterprise Company, Columbiana, Ohio. Drive for sawmill carriages. 1,732,596; Oct. 22.
- Deuba Deutsche Bautrocknungs Aktiengesellschaft m. b. H. (See Wagner, Albert, assignor.)
- Deubener, Walter H., St. Paul, Minn. Shopping bag. 1,713,747; May 21.
- Deubener, Walter H., St. Paul, Minn. Shopping bag. 1,714,162; May 21.
- Deuel, Luther J., and C. R. Higgins, Medford, Oreg. Windshield wiper. 1,733,948; Oct. 29.
- Deutsch, Frank, South Milwaukee, Wis. Cutter for turning polygonal work. 1,698,538; Jan. 8.
- Deutsch, Hans. (See Herrmann, W. O., and Deutsch.)
- Deutsch, Hans, Vienna, Austria. Exhaust-steam injector. 1,697,906; Jan. 8.
- Deutsch, Herman B., New Orleans, La. Caponizing instrument. 1,729,506; Sept. 24.
- Deutsch, Jacob M., Philadelphia, Pa. Bookmark. 1,711,046; Apr. 30.
- Deutsch, Leonhard, and I. Thorn, Vienna, Austria, assignors to The Selden Company, Pittsburgh, Pa. Producing transparent, hard, insoluble, and infusible products of condensation from phenols and aldehydes. 1,710,019; Apr. 23.
- Deutsch, Leonhard, and I. Thorn, Vienna, Austria, assignors to The Selden Company, Pittsburgh, Pa. Producing light-colored, hard, infusible, and insoluble phenol-aldehyde products. 1,710,045; Apr. 23.
- Deutsch-Luxemburgische Bergwerks- und Hutten-Aktiengesellschaft. (See Koch, Emil, assignor.)
- Deutsche Gasglühlicht-Auer-Gesellschaft m. b. H. (See D'Ans, Jean, assignor.)
- Deutsche Gasglühlicht-Auer-Gesellschaft mit beschränkter Haftung. (See Sommer, Fritz, assignor.)
- Deutsche Gesellschaft für Schadlingsbekämpfung m. b. H. (See Flury, Ferdinand, assignor.)
- Deutsche Gold & Silber Scheideanstalt, vormals Roessler. (See Scheller, Emil, assignor.)
- Deutsche Gold- und Silber-Scheideanstalt. (See Pannwitz, Wilhelm, assignor.)
- Deutsche Gold- und Silberscheideanstalt vormals Roessler. (See Wendt, Adolf, assignor.)
- Deutsche Maschinenfabrik Aktiengesellschaft. (See Bilgmann, Peter, assignor.)
- Deutsche Schiff- und Maschinenbau Aktiengesellschaft. (See Weis, Gabriel, assignor.)
- Deutsche Werke Kiel Aktiengesellschaft. (See Kade, Friedrich, assignor.)
- Deutscher, Oscar C., Brooklyn, N. Y. Variable condenser. 733,337; Oct. 29.
- Deutschmann, Jacob H., Boston, Mass. Collar. 1,733,297; Oct. 29.
- Deutschmann, Tobe, Corporation. (See Deutschmann, Tobe C., assignor.)
- Deutschmann, Tobe, Corporation. (See Fleming, Wilfred K., assignor.)
- Deutschmann, Tobe, trustee. (See Yates, Raymond F., assignor.)
- Deutschmann, Tobe C., trustee. (See Greene, Lloyd C., assignor.)
- Deutschmann, Tobe C., Boston, assignor to Tobe Deutschmann Corporation, Canton, Mass. Condenser. 1,735,381; Nov. 12.
- De Vauchier, Simon, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill. Bottle for perfume or the like. Des. 80,117; Dec. 17.
- De Vault, Ralph P., assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Intermittent gearing for motion-picture apparatus. Re17,443; Sept. 24.
- De Vault, Ralph P., Villa Park, Ill., assignor, by mesne assignments, to International Projector Corporation, New York, N. Y. Projector. 1,738,762; Dec. 10.
- De Veau, Harry R., Stamford, Conn., assignor to Dera Manufacturing Corporation, Kent County, Del. Seat adjusted for vehicles. 1,714,462; May 21.
- De Vecchi, Attilio. (See Reyes, R., Pani, and de Vecchi.)
- Dever, Frank M. (See Emerson, E. R., and Dever.)
- Dever, Roger J., Wilkes-Barre, Pa. Humidifier. 1,732,674; Oct. 22.
- Devereaux, William C., Detroit, Mich. Door handle. Des. 77,399; Jan. 8.
- Devereaux, William C., Detroit, Mich. Rear-light frame. Des. 77,745; Feb. 19.
- Devereaux, William C., Detroit, Mich. Dome-light frame. Des. 77,746; Feb. 19.
- Devereaux, William C., Detroit, Mich. Door handle. Des. 77,747; Feb. 19.
- Devereaux, William C., Detroit, Mich. Escutcheon. Des. 77,748; Feb. 19.
- Devereaux, William C., Detroit, Mich. Door-window regulator handle. Des. 77,749; Feb. 19.
- Devereaux, William C., Detroit, Mich. Door handle. Des. 77,750; Feb. 19.
- Devereaux, William C., Detroit, Mich. Escutcheon. Des. 77,751; Feb. 19.
- Devereaux, William C., Detroit, Mich. Shaded light frame. Des. 78,271; Apr. 16.
- Devereaux, William C., Detroit, Mich. Door-latch assembly. 1,702,110; Feb. 12.
- Devereaux, William C., Detroit, Mich. Locking handle for automobile doors. 1,703,338; Feb. 26.
- Devers, Philip K., Lynn, Mass., assignor to General Electric Company. Electric furnace. 1,708,833; Apr. 9.
- De Vilbiss Company, The. (See De Vilbiss, Thomas A., assignor.)
- De Vilbiss Company, The. (See Mueller, Godfrey A., assignor.)
- De Vilbiss Company, The. (See Mueller, G. A., and Tracy, assignors.)
- De Vilbiss Company, The. (See Tracy, Robert W., assignor.)
- De Vilbiss Company, The. (See Roselund, Harold A., assignor.)
- De Vilbiss Company, The. (See Schmitt, Joy B., assignor.)
- De Vilbiss Company, The. (See Schneider, Cale J., assignor.)
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Vanity box or similar article. Des. 77,465; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. Des. 77,466; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,467; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,468; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,469; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,470; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,471; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,472; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,473; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,474; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,475; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,476; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,477; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,478; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,479; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,480; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,481; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,482; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,483; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,484; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,485; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,486; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,487; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,488; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,489; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,490; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,491; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,492; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,493; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,494; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,495; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,496; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,497; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,498; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,499; Jan. 15.
- De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer top. Des. 77,500; Jan. 15.



- De Ville, Edward J., assignor to The Monarch Engineering Company, Dayton, Ohio. Division plate for pumps. 1,728,788; Sept. 17.
- De Vine, Daniel C., assignor to S. Morgan Smith Company, York, Pa. Turbine-wicket-gate mounting. 1,712,332; May 7.
- Devine, Frank, Philadelphia, Pa. Pipe-threading machine. 1,705,240; Mar. 12.
- Devins, Francis, New York, N. Y. Price-ticket holder. 1,712,423; May 7.
- Devins, Francis, New York, N. Y. Price-ticket holder. 1,728,789; Sept. 17.
- De Vito, Louis, Cleveland, Ohio. Machine for making flat noodles. 1,738,361; Dec. 3.
- De Vito, Nicholas, St. Louis, Mo. Piston and upper ring therefor. 1,719,834; July 9.
- De Vleeschouwer, Camille. (See Tacoma, J., and De Vleeschouwer.)
- Devleminck, Joseph Hal, Belgium. Finishing machine for boots or shoes. 1,703,480; Feb. 26.
- De Vlieg, Charles B., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Rotatable work table. 1,737,002; Nov. 26.
- De Vlieg, Gerard A., Rockford, Ill. Method of and machine for grinding rotary cutters. 1,710,533; Apr. 23.
- De Vlieg, Gerard A., Rockford, Ill. Grinding machine. 1,714,499; May 28.
- De Vlieg, Gerard A., Rockford, Ill. Wheel-dressing mechanism. 1,715,122; May 28.
- De Vlieg, Gerard A., Janesville, Wis. Apparatus for grinding tools. 1,718,193; June 18.
- De Vlieg, Gerard A., Rockford, Ill. Rotary cutter. 1,723,017; Aug. 6.
- Devlin, Charles J. I., San Francisco, Calif. Necktie centralizer and holder. 1,708,607; Apr. 9.
- Devol, James C., Battle Creek, Mich. Metal tile. 1,716,626; June 11.
- Devon, Joseph L., Atlanta, Ga. Manifold. 1,730,453; Oct. 8.
- Devon Manufacturing Company. (See Lundgaard, Ivar, assignor.)
- De Von, Robert S., Pittsburgh, Pa. Friction drive for watchmakers' lathes. 1,703,613; Feb. 26.
- De Vries, Ralph P., Menands, and H. A. De Fries, Albany, assignors to Ludlum Steel Company, Watervliet, N. Y. Stable-surface alloy steel resistant to acids. 1,712,030; May 7.
- De Vries, Ralph P., Menands, and H. A. De Fries, Albany, assignors to Ludlum Steel Company, Watervliet, N. Y. Ferro-aluminum alloy and making it. 1,718,685; June 25.
- De Vries, Walter. (See Schachtmeyer, N., and de Vries.)
- De Wagner, Maggy B., Paris, France, assignor to Lenthalie, Incorporated, New York, N. Y. Bottle. Des. 78,616; May 28.
- De Wagner, Maggy B., Paris, France, assignor to Lenthalie, Incorporated, New York, N. Y. Bottle. Des. 79,958; Nov. 26.
- Dewald, Edward A., Massillon, Ohio, assignor to The Griscom Russell Company, New York, N. Y. Return bend for fin tubes. 1,710,811; Apr. 30.
- De Wallace, Harry, Syracuse, N. Y. Bottle. 1,717,195; June 11.
- De Walt Products Company. (See De Walt, Raymond E., assignor.)
- De Walt, Raymond E., Leola, Pa. Woodworking machinery. 1,701,912; Feb. 12.
- De Walt, Raymond E., Leola, Pa. Floor-sanding machine. 1,738,873; Dec. 10.
- De Walt, Raymond E., assignor to De Walt Products Company, Leola, Pa. Woodworking machine. 1,738,763; Dec. 10.
- Dewar, James R., assignor to North East Electric Company, Rochester, N. Y. Battery-charging system. 1,702,724; Feb. 19.
- De Waters, Enos A., Flint, assignor to General Motors Corporation, Detroit, Mich. Crank-case ventilation. 1,701,405; Feb. 5.
- De Waters, Enos A., Flint, assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,723,412; Aug. 6.
- Deweese, George D., et al. (See Crain, Jack R., assignor.)
- Dewey, Bradley, Cambridge, Mass., and T. L. Taliaferro, Chicago, Ill. Drying apparatus. 1,741,981; Dec. 31.
- Dewey, Frederick L., Canton, Ill., assignor to International Harvester Company. Tractor implement attachment. 1,718,780; June 25.
- Dewey, Ritchie P., assignor to Barber-Colman Company, Rockford, Ill. Milling cutter. 1,739,667; Dec. 17.
- Dewey, Seymour B., Jr., Cleveland, Ohio, assignor to T. H. Taylor, East McKeesport, Pa. Cleaning compound. 1,737,222; Nov. 26.
- Dewey, Seymour B., Jr., Cleveland, Ohio, assignor to T. H. Taylor, East McKeesport, Pa. Making cleaning compounds. 1,737,223; Nov. 26.
- Dewey, William L., Tacoma, Wash. Combination auto lock. 1,709,525; Apr. 16.
- De Whalley, Hermes G. L., Carshalton, England. Aerator. 1,714,850; May 28.
- De Willy, Francis, Los Angeles, Calif. Electrical winding. 1,705,396; Mar. 12.
- Dewire, John A. (See Pardee, H. S., and Dewire.)
- De Wit, Leonard, Chicago, assignor to Moore Brothers Company, Joliet, Ill. Stove. Des. 79,349; Sept. 3.
- De Witt, Jennings, New York, N. Y. Deinking fibrous material. 1,705,907; Mar. 19.
- De Witt, Jennings, New York, N. Y. Delinking apparatus. 1,705,908; Mar. 19.
- De Witt, Jennings, New York, N. Y. Parachute. 1,705,909; Mar. 19.
- De Witt, William C., Newburgh, N. Y. Oil and air filter and lubricator. 1,702,156; Feb. 12.
- De Witt, William J., Auburn, N. Y. Trimming machine. 1,700,197; Jan. 29.
- De Witt, William J., Auburn, N. Y. Pull-over and making the same. 1,703,614; Feb. 26.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Expandible shoe form. 1,704,693; Mar. 12.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Expandible shoe form. 1,717,839; June 18.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Adjustable shoe form. 1,727,338; Sept. 10.
- De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Hollow last. 1,727,339; Sept. 10.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Heel for footwear. 1,733,185; Oct. 29.
- De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Shoe form. 1,733,949; Oct. 29.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Fitting lasts and shoes. 1,734,203; Nov. 5.
- De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Shoe form. 1,736,780; Nov. 26.
- De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Shoe form. 1,740,157; Dec. 17.
- De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Making shoe forms. 1,741,830; Dec. 31.
- De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Expandible shoe form. 1,741,831; Dec. 31.
- De Wolf, Leon, Lebbeke, Belgium. Improving cellulosic materials. 1,726,142; Aug. 27.
- De Wolf, Roger D., Rochester, N. Y. Furnace construction. 1,705,965; Mar. 19.
- Dewoitine, Emile J., Chatillon, France. Constructional element. 1,710,350; Apr. 23.
- Dexdale Hosiery Mills. (See Berger, Emil J., assignor.)
- Dexdale Hosiery Mills. (See Matthews, Howard W., assignor.)
- Dexheimer, Christian, assignor to Leipziger Schnellpressenfabrik Akt.-Ges. Schmiere, Werner & Stein, Leipzig, Germany. Preventing damage to the doctor and printing cylinder of copper-plate-printing machines. 1,736,431; Nov. 19.
- Dexter, Albert J., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead setter. 1,716,578; June 11.
- Dexter, Benjamin R. (See Arthur, Charles E., assignor.)
- Dexter Folder Company. (See Christopfel, Carl E., assignor.)
- Dexter Folder Company. (See Kast, Edward R., assignor.)
- Dexter Folder Company. (See McElroy, John H., assignor.)
- Dexter Folder Company. (See Rader, Earl D., assignor.)
- Dexter Folder Company. (See Swart, G. R., and Ehlig, assignors.)
- Dexter, Lucien A., Grand Rapids, Mich. Latch. 1,697,950; Jan. 8.
- Dexter, Wilbur B., Lakewood, Ohio, assignor to National Carbon Company, Inc. Gas-permeable and waterproofing composition. 1,739,388; Dec. 10.
- Dextora Company. (See McDougall, Shirley A., assignor.)
- Dey, Gilbert S. (See Clement, H., and Dey.)
- Dey, Harry E., deceased, East Orange, N. J.; M. E. Dey, executrix. Brake for automobiles and other vehicles. 1,735,529; Nov. 12.
- Dey, Mary E., executrix. (See Dey, Harry E.)
- De Ybarrodo, Vincent C., Los Angeles, assignor of one-half to W. L. Kincaid, Sierra Madre, Calif. Vehicle adapted to travel on track or road. 1,709,248; Apr. 16.
- De Yega, Jesus, Olavarria, Argentina. Coupling system. 1,736,036; Nov. 19.
- Deyo, George H., Kokomo, Ind. Boring head. 1,713,646; May 21.
- Dezendorf, Richard L., Richmond Hill, N. Y. Testing apparatus. 1,706,567; Mar. 26.
- De Zeng, Henry L., Geneva, N. Y., assignor to De Zeng Standard Company, Camden, N. J. Projection device. 1,698,013; Jan. 8.
- De Zeng, Henry L., Geneva, N. Y., assignor to De Zeng Standard Company, Camden, N. J. Optical diagnostic instrument. 1,698,124; Jan. 8.
- De Zeng, Henry L., Geneva, N. Y., assignor to American Optical Company, Southbridge, Mass. Ophthalmologic instrument. 1,720,035; July 9.
- De Zeng, Henry L., Geneva, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Diagnostic instrument. 1,739,027; Dec. 10.
- De Zeng Standard Company. (See De Zeng, Henry L., assignor.)
- Dezurik, Mathias, Sartell, Minn. Pulp-fiber-cleansing apparatus. 1,700,925; Feb. 5.
- Dhaenens, Peter, Moline, Ill. Nut lock. 1,717,668; June 18.



- D'Humy, Fernand E., Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y. Garage. 1,704,499; Mar. 5.
- D'Humy, Fernand E., Scarsdale, and V. Weidner, Port Washington, assignors to Ramp Buildings Corporation, New York, N. Y. Building. 1,704,500; Mar. 5.
- Diago, Federico G., Habana, Cuba. Airplane stabilizer. 1,727,275; Sept. 3.
- Diago, Federico G., Habana, Cuba. Elevator. 1,736,584; Nov. 19.
- Dial, George H., Columbus, Ohio. Tent. 1,735,737; Nov. 12.
- Dial Toaster Corporation. (See Smith, Elmer H., assignor.)
- Diamond Candle Co. (See Purcell, Mark, assignor.)
- Diamond, David, and J. F. Fodor, Cleveland, Ohio. Sanitary milk-bottle rack. 1,697,055; Jan. 1.
- Diamond Electrical Manufacturing Company. (See Pengilly, J. H., and Brown, assignors.)
- Diamond Machine Company. (See Stratton, Frank E., assignor.)
- Diamond Match Company, The. (See Linebaugh, Edward R., assignor.)
- Diamond Match Company, The. (See Wright, Charles F., assignor.)
- Diamond Power Specialty Corporation. (See Thomas, Willis P., assignor.)
- Diamond, Randolph W., Trail, British Columbia, Canada, assignor, by mesne assignments, to Center Thickener Company. Frame for holding tubular filter elements. 1,706,400; Mar. 26.
- Diamond Specialty Mfg. Company. (See Stotz, Charles, assignor.)
- Diamond State Fibre Company. (See McIntosh, James, assignor.)
- Diamond State Fibre Company. (See Swallow, Gerald, assignor.)
- Diamond State Fibre Company. (See Taylor, John M., assignor.)
- Diamond Wood Heel & Mfg. Company. (See McCann, A. A., and Stotz, assignors.)
- Diary Publishing Corporation, The. (See Epstein, Barnett, assignor.)
- Diaz, Angelo, New York, N. Y. Hair clip. 1,741,407; Dec. 31.
- Diaz, Antonio V., Madrid, Spain. Gasification of liquid fuels. 1,717,767; June 18.
- Dibbern, Otto D., Galva, Iowa. Tank heater. 1,700,285; Jan. 29.
- Di Biaso, Peter. (See Fleischer, W., and Di Biaso.)
- Di Biasi, Tindaro, and V. Lamorte, New York, N. Y. Boiler alarm. 1,706,217; Mar. 19.
- Dibsdale, Thomas, assignor of one-half to G. Woodey, Detroit, Mich. Caster. 1,709,972; Apr. 23.
- Di Carlo, Donato, Philadelphia, Pa. Direction indicator. 1,698,297; Jan. 8.
- Dice, Glen L. (See Rouch, Vern E., assignor.)
- Dicely, Lee W., Richmond, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Vacuum nozzle. 1,736,771; Nov. 26.
- Di Cesare, Nicholas P., Sheboygan, assignor to Kohler Company, Kohler, Wis. Electroplating rack. 1,715,411; June 4.
- Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)
- Dick, A. B., Company. (See Wagner, Ludwig W., assignor.)
- Dick Brothers. (See Laroche, Louis J., assignor.)
- Dick, Frank J., Canton, Ohio. Toy wind wheel. 1,714,419; May 21.
- Dick, John G., Chinook, Mont. Sugar-beet harvester and topper. 1,715,823; June 4.
- Dick, Joseph, Manufacturing Company, The. (See Hamaker, Sidney U., assignor.)
- Dick, Ode, Waco, Tex. Razor wiper and lather receptacle. 1,705,004; Mar. 12.
- Dick, William R., San Diego, Calif. Cooking utensil. 1,698,225; Jan. 8.
- Dick, William R., San Diego, Calif. Cooking utensil. 1,710,971; Apr. 30.
- Dicke, Oscar H., Rochester, N. Y., assignor to General Electric Company. Inductive alternating-current regulator for bus bars. 1,729,713; Oct. 1.
- Dickenson, William J., Pittsfield, Mass., assignor to General Electric Company. Electrical-apparatus casing. 1,725,623; Aug. 20.
- Dickerman, Allen E., New York, N. Y., assignor to Gasco Power Corporation. Apparatus for making oil gas. 1,728,400; Sept. 17.
- Dickerson, Constance H., executrix. (See Marlatt, C. D., and Dickerson.)
- Dickerson, Delbert J., Salt Lake City, Utah. Carburetor. 1,733,367; Oct. 29.
- Dickerson, Orman W., Oklahoma City, Okla. Temper jack for standard cable tool and pumping wells. 1,720,119; July 9.
- Dickerson, Walter H. (See Marlatt, C. D., and Dickerson.)
- Dickerson, Walter H., East Orange, N. J., assignor to Industrial Waste Products Corporation, Dover, Del. Treating sugar solutions to increase the sucrose content. 1,713,118; May 14.
- Dickerson, Walter H., East Orange, N. J., assignor to Industrial Waste Products Corporation, Dover, Del. Desiccation apparatus. 1,734,289; Nov. 5.
- Dickerson, Walter H., East Orange, N. J., assignor to Industrial Waste Products Corporation, Dover, Del. Manufacture of a sugar product. 1,739,064; Dec. 10.
- Dickett, Bostick J., Arifton, Ala. Shower bath. 1,723,410; Aug. 6.
- Dickey, Charles T., Elizabeth, assignor to Rodic Rubber Company, Garwood, N. J. Resilient shackle. 1,720,545; July 9.
- Dickey, Cromwell B. (See Raleigh, W. P., and Dickey.)
- Dickey, Edward J. (See Vose, Oliver F., assignor.)
- Dickey, Ernest, assignor to Delco-Light Company, Dayton, Ohio. Engine-starting apparatus. 1,719,102; July 2.
- Dickey, Ernest, assignor to Delco-Light Company, Dayton, Ohio. Fuel-supply apparatus. 1,719,103; July 2.
- Dickey, Ernest, assignor to Delco-Light Company, Dayton, Ohio. Fuel-supply apparatus. 1,719,214; July 2.
- Dickey, Estel O., Adair, Iowa. Automatic hydrant control. 1,699,182; Jan. 15.
- Dickey, Laurence P., Mountain Lakes, N. J., assignor to August Goertz & Co., Inc. Producing decorative surfaces. 1,741,683; Dec. 31.
- Dickey, Nellie, Snyder, Nebr. Door latch. 1,704,730; Mar. 12.
- Dickgiesser, Charles J., Derby, Conn. Road marker. 1,703,227; Feb. 26.
- Dickie, William A. (See Woodman, T. C., and Dickie.)
- Dickieson, Alton C., Brooklyn, assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Electrical signaling. 1,715,645; June 4.
- Dickins, Hasseltine M., Brooklyn, N. Y. Stuffed figure toy. 1,708,170; Apr. 9.
- Dickinson Cord Tire Corporation. (See Dickinson, Frederick S., assignor.)
- Dickinson, Edgar D., Beverly, Mass., assignor to General Electric Company. Governing mechanism for prime movers. 1,698,299; Jan. 8.
- Dickinson, Edgar D., Beverly, Mass., assignor to General Electric Company. Manufacturing nozzle diaphragms, turbine wheels, and the like. 1,713,173; May 14.
- Dickinson, Fairleigh S., Rutherford, N. J. Permanently securing metal to glass. 1,727,755; Sept. 10.
- Dickinson, Fredrick S., assignor to Dickinson Cord Tire Corporation, New York, N. Y. Cord-tire-making machine. 1,728,957; Sept. 24.
- Dickinson, Jennie. (See Scantlin, William J., assignor.)
- Dickinson, Joseph H., Larchmont, N. Y., assignor to The Aeolian Company. Automatic piano. 1,732,879; Oct. 22.
- Dickinson, Joseph H., Larchmont, N. Y., assignor to The Aeolian Company. Automatic piano. 1,734,717; Nov. 5.
- Dickinson, Joseph H., Winter Park, Fla., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Overhead cableway system. 1,719,598; July 2.
- Dickinson, Louis V., Detroit, Mich. Wire tightener. 1,736,848; Nov. 26.
- Dickinson, Paul, Incorporated. (See Filkins, Arthur J., assignor.)
- Dickinson, Paul, Incorporated. (See Knutson, Harold, assignor.)
- Dickinson, William E. (See Morgan, J. J., Dickinson, and Bitterlick.)
- Dickinson, William O. (See Hammel, J. C., and Dickinson.)
- Dickman, Eli. (See Smith, J. Clifford, assignor.)
- Dicks, Thomas A., assignor, by mesne assignments, to Pittsburgh Screw & Bolt Company, Pittsburgh, Pa. Propeller and making same. 1,713,500; May 14.
- Dickson, Anna P., Willimantic, Conn. Artificial butterfly. 1,727,700; Sept. 10.
- Dickson, Frank D. (See Diveley, R. L., and Dickson.)
- Dickson, George, Chicago, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Cutting device. 1,719,599; July 2.
- Dickson, George, Chicago, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Grinding machine. 1,737,707; Dec. 8.
- Dickson, Jack B., and W. L. Amy, Woodstock, Ontario, Canada. Steamer. 1,719,322; July 2.
- Dickson, Lawrence E., Chicago, Ill. Toe guard. 1,717,438; June 18.
- Dickson, Sidney M., Pittsburgh, Pa. Skylight. 1,707,798; Apr. 2.
- Dickson, Tracy C. (See Langenberg, Frederick C., assignor.)
- Dictaphone Corporation. (See Bodine, Alfred V., assignor.)
- Dictaphone Corporation. (See Frykman, Victor L., assignor.)
- Dictaphone Corporation. (See Herlihy, Thomas F., assignor.)
- Dictaphone Corporation. (See Lucarelle, Joseph M., assignor.)
- Dictaphone Corporation. (See Lucarelle, J. M., and Frykman, assignors.)
- Dictaphone Corporation. (See Lucarelle, J. M., and Renholdt, assignors.)
- Dictaphone Corporation. (See Renholdt, John E., assignor.)
- Dictaphone Corporation. (See Roberts, Henry P., assignor.)
- Dictaphone Corporation. (See Woodbridge, Charles K., assignor.)
- Diebel, Henry, assignor to Howie Company, Inc., Detroit, Mich. Wind motor and ventilator. 1,738,526; Dec. 10.
- Diebold, Pierre, Nancy, France. Temperature regulation. 1,739,295; Dec. 10.



- Diebold Safe & Lock Company. (See Fellows, John A., assignor.)
- Diebold Safe & Lock Company. (See Gialdini, Bruno T., assignor.)
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,472; Jan. 15.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,678; Feb. 12.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,679; Feb. 12.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,818; Feb. 26.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,819; Feb. 26.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 78,451; May 7.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 78,452; May 7.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 78,922; July 9.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 79,067; July 30.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 79,284; Aug. 27.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 79,285; Aug. 27.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 79,286; Aug. 27.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 79,287; Aug. 27.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 79,353; Sept. 10.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Table cover or similar article. Des. 79,509; Oct. 1.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 79,790; Nov. 5.
- Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 79,791; Nov. 5.
- Dieckmann, Edward H., Florissant, Mo. Power unit. 1,699,834; Jan. 22.
- Dieckmann, Otto, Cincinnati, Ohio. Refining petroleum oils. 1,703,615; Feb. 26.
- Diederich, Paul E., assignor to American Injector Company, Detroit, Mich. Air deflector. 1,724,696; Aug. 13.
- Diederichs, William J., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Annealing furnace. 1,707,300; Apr. 2.
- Diehl, Charles J., New York, N. Y. Switch for automobile signaling apparatus. 1,723,845; Aug. 6.
- Diehl, Frank, Wabash, Ind. Machine for trimming veneer. 1,740,972; Dec. 24.
- Diehl, Frederick, assignor to Diehl Manufacturing Company, Elizabeth N. J. Starting device for electric motors. 1,709,935; Apr. 23.
- Diehl, Frederick, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Gyrotory fan. 1,721,249; July 16.
- Diehl, Heinrich, Berlin-Lichterfelde, Germany, assignor to General Electric Company. Signal-control system. 1,731,127; Oct. 8.
- Diehl, Herman H., assignor to The West Virginia Rail Company, Huntington, W. Va. Railway-track construction. 1,729,157; Sept. 24.
- Diehl Manufacturing Company. (See Diehl, Frederick, assignor.)
- Diehl Manufacturing Company. (See Karle, John D., assignor.)
- Diehl, Walter S., Washington, D. C. Aircraft control. 1,732,642; Oct. 22.
- Diehl, Webster L., St. Joseph, Mo. Hydraulic rotary drill. 1,727,276; Sept. 3.
- Diekmann, Heinrich. (See Beck, C., and Diekmann.)
- Diel Watch Case Company. (See Dinstman, Isidor, assignor.)
- Diemer, George A., Newark, N. J. Baking oven. 1,712,031; May 7.
- Diemoulding Production Company. (See Holden, Joseph B., assignor.)
- Dienelt, John A., Alexandria, Va. Indicating empty seats in theaters. 1,728,110; Sept. 10.
- Diener, George W., Oak Park, Ill. Blowtorch. 1,730,648; Oct. 8.
- Diener, Hyman, Washington, D. C. Hat blocking and steaming attachment. 1,740,008; Dec. 17.
- Diener, Kurt, Gorke, near Anklam, Pomerania, Germany, assignor to the firm N. V. Union Maatschappij voor Automatische Metaalbewerking, Rotterdam, Netherlands. Firarm. 1,731,844; Oct. 15.
- Diener, Oskar, Breslau, Germany. Manufacture of tools of tungsten. 1,740,009; Dec. 17.
- Diener, Riley M., assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind. Mounting for loop aerials. 1,701,666; Feb. 12.
- Diemme, Gaston, Haine St. Pierre, assignor to Societe Anonyme les Ateliers Mecaniques, Hayettes-par-Morlanwelz, Belgium. Revolving grate for gas producers. 1,724,461; Aug. 13.
- Dienner, John A., et al. (See Brown, Charles A., assignor.)
- Dienner, John A. (See Miller, Kenneth W., assignor.)
- Dienner, John A., Chicago, Ill. Hydraulic transmission system. 1,719,502; July 2.
- Dienner, John A., assignor to Stromberg Motor Devices Company, Chicago, Ill. Fuel-feeding system. 1,712,492; May 14.
- Dienner, John A., Evanston, and A. C. Maybee, Villa Park, Ill. Vernier adjustment. 1,713,522; May 21.
- Dienner, John A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. 1,716,371; June 11.
- Diercks, Chris, Bryant, Iowa. Self-draining cream-separator bowl. 1,699,055; Jan. 15.
- Dierdorf, Frederick W., Rochester, N. Y. Apparatus for reproducing musical tones. 1,707,115; Mar. 26.
- Dierker, Arthur H. (See Campion, E. W., and Dierker.)
- Dierker, Arthur H. (See Speck, W. C., Barker, Whipple, and Dierker.)
- Dierker, Arthur H., Columbus, Ohio. Grinding machine. 1,736,394; Nov. 19.
- Dierks, De Vere, Kansas City, Mo. Treating lumber. 1,735,001; Nov. 12.
- Dierks, John, Los Angeles, Calif. Reading desk. 1,712,814; May 14.
- Dierks, John, Glendale, Calif. Bread box. 1,732,643; Oct. 22.
- Dierksmier, Charles H., Manomet, Mass. Rotary antiskid chain for vehicle wheels. 1,708,755; Apr. 9.
- Dies, Charles A., Chicago, Ill. Window-cleaning device. 1,727,277; Sept. 3.
- Diescher, S., & Sons. (See Diescher, Samuel E., assignor.)
- Diescher, Samuel E., assignor to S. Diescher & Sons, Pittsburgh, Pa. Tin-plate-cleaning machine. 1,705,177; Mar. 12.
- Diescher, Samuel E., Wilkinsburg, Pa., assignor to S. Diescher & Sons, Pittsburgh, Pa. Sheet-handling apparatus. 1,708,411; Apr. 9.
- Diescher, Samuel E., assignor to S. Diescher & Sons, Pittsburgh, Pa. Apparatus for treating sheets for tinning. 1,708,412; Apr. 9.
- Dieterberger, Joseph A., Cleveland, assignor to J. B. Kirby, West Richfield, Ohio. Washing machine. 1,712,755; May 14.
- Dieter, William. (See Strong, W. E. S., and Dieter.)
- Dieter, William, Newark, N. J., assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscopic steering mechanism. 1,718,539; June 25.
- Dieterich, Conrad A., Mount Vernon, N. Y. Bumper for motor vehicles. 1,741,506; Dec. 31.
- Dieterich, Karl G., Brooklyn, N. Y. Ball game. 1,714,905; May 28.
- Dieterich, Ludwig M., New Brunswick, N. J., assignor to Charles W. Wheelock, trustee, New York, N. Y. Method and apparatus for radio reception. 1,707,713; Apr. 2.
- Dieterle, Edward A., Glen Ellyn, Ill. Carbonizing process. 1,739,786; Dec. 17.
- Dieterle, Paul, Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Making 2-naphthol-3-carboxylic acid. 1,725,394; Aug. 20.
- Dieterle, Walter. (See Matthies, O., Dieterle, and Reitsstötter.)
- Dieterle, Walter. (See Matthies, O., Dieterle, and Wendt.)
- Dieterle, Walter, O. Matthies, and E. Mauerhoff, Dessau, and J. Reitsstötter, Berlin-Friedenau, Germany, assignors, by mesne assignments, to Asfa Anso Corporation, Binghamton, N. Y. Photographic gelatine and preparing the same. 1,727,866; Sept. 10.
- Dietiker, Max. (See Strasser, Eugen, assignor.)
- Dietrich, Harold E., assignor to The Visking Corporation, Chicago, Ill. Method and apparatus for preparing link sausages. 1,718,896; June 25.
- Dietrich, Harry W., Noblesville, assignor to J. I. Holcomb Manufacturing Co., Indianapolis, Ind. Ventilated nonrefillable container. 1,706,444; Mar. 26.
- Dietrich Incorporated. (See Dietrich, Raymond H., assignor.)
- Dietrich, Leo J., Heisler, Alberta, Canada. Rein-line holder. 1,713,692; May 21.
- Dietrich, Paul, Webb City, Okla. Collar-buster structure. 1,701,446; Feb. 5.
- Dietrich, Raymond H., assignor to Dietrich Incorporated, Detroit, Mich. Automobile Body. Des. 78,453; May 7.
- Dietsch, Richard, Edgerton, Ohio. Radiator-cap ornament. Des. 77,894; Mar. 5.
- Dietz, August, Richmond, Va., assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of type. Des. 79,792; Nov. 5.
- Dietz, Charles H., assignor to United States Tent & Awning arm. Des. 77,820; Feb. 26.
- Dietz, Jessie M., Portland, Oreg. Diaper. 1,740,973; Dec. 24.
- Dietz, Valentin, Frankfort-on-the-Main, Germany, assignor to The American Multigraph Company, Cleveland, Ohio. Dry offset-printing process. 1,741,758; Dec. 31.



- Dietze, Eginhard, Westfield, N. J., assignor to American Telephone and Telegraph Company. Telephone system. 1,709,900; Apr. 23.
- Dietze, Richard, Berlin-Pankow, Germany, assignor to General Electric Company. Electrical distribution system. 1,728,044; Sept. 10.
- Dietzgen, Eugene, Company. (See Langsner, Adolph, assignor.)
- Dietzsch, Ferdinand, Kinston-on-Thames, England. Treatment of ores for extracting metallic values therefrom. 1,703,763; Feb. 26.
- Di Gaudio, John, Brooklyn, N. Y. Lighting-fixture arm or article of analogous nature. Des. 78,923; July 9.
- Di Gaudio, John, Brooklyn, N. Y. Lighting-fixture wall bracket or article of analogous nature. Des. 78,924; July 9.
- Di Gaudio, John, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc. Lighting-fixture brace or article of analogous nature. Des. 79,070; July 30.
- Di Gaudio, John, Brooklyn, N. Y., assignor to Modern Lighting Fixture Co., Inc. Chandelier. Des. 79,510; Oct. 1.
- Digeon, Charles, St. Mandé, France. Hot-water heater and boiler. 1,742,063; Dec. 31.
- Diggins, Harte H., Woodstock, Ill. Furnace. 1,731,525; Oct. 15.
- Diggs, Dudley M. (See Butler, Henry E., assignor.)
- Dignan, George E., Carnegie, assignor to The Rust Engineering Company, Pittsburgh, Pa. Wall construction. 1,725,900; Aug. 27.
- Di Gregorio, Angelo. (See Canto, A., and Di Gregorio.)
- Dijkstra, Popko R., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electric discharge-tube system. 1,737,224; Nov. 26.
- Dikeman, Myron J., et al. (See Coatsworth, Caleb S., assignor.)
- Dil, John, New York, N. Y. Aeroplane. 1,701,298; Feb. 5.
- Di Leonardo, Dominic, Pittsburgh, Pa. Treating spaghetti and similar foodstuff. 1,716,966; June 11.
- Dile, Charles H. J., New York, N. Y. Drawer guard. 1,704,964; Mar. 12.
- Di Libero, John, Providence, R. I. Emblem or article of similar nature. Des. 78,879; July 2.
- Di Lizio, Joe, trustee. (See Franich, Mariano, assignor.)
- Dilks, James J., jr., Philadelphia, Pa. Braking mechanism. 1,735,452; Nov. 12.
- Dilks, James J., jr., West Collingswood, assignor to The New-Matix Equipment Co., Audubon, N. J. Air-compressing apparatus. 1,730,319; Oct. 1.
- Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
- Dill Manufacturing Company, The. (See Lazear, Leroy C., assignor.)
- Dill Manufacturing Company, The. (See Tobold, Ewald F., assignor.)
- Dillard, Walter E., Lanesville, Va. Oil gauge. 1,706,108; Mar. 19.
- Dillard, William F. (See Feil, James R., assignor.)
- Diller, Charles R., assignor of one-half to J. H. Powell, Theford, Ontario, Canada. Needle-threading device. 1,725,062; Aug. 20.
- Dillingham, Frederick A., assignor to The Troy Sunshade Company, Troy, Ohio. Windshield. 1,699,835; Jan. 22.
- Dillman, Edward L., New York, N. Y. Medicated peg. 1,721,334; July 16.
- Dillman, George, Raton, N. Mex. Lawn sprinkler. 1,716,305; June 4.
- Dillman, Joseph. (See Riel, Joseph, assignor.)
- Dillon, Earl A., San Antonio, Tex. Automobile turntable. 1,718,810; June 25.
- Dillon, Earl A., San Antonio, Tex. Turntable. 1,718,811; June 25.
- Dillon, Emory D., Alexandria, Va. Traffic signal. 1,714,351; May 21.
- Dillon, John T., Buffalo, N. Y., assignor, by mesne assignments, to Struthers-Wells-Titusville Corporation, Warren, Pa. Motion-reversing mechanism. 1,707,053; Mar. 26.
- Dillon, William J., Grand Rapids, Mich. Tautening mechanism for upholstery bands. 1,724,260; Aug. 13.
- Dills, Henry R., New Orleans, La. Clothespin. 1,729,930; Oct. 1.
- Dilworth, Arthur F., Toronto, Ontario, Canada. Umbilical clamp. 1,710,766; Apr. 30.
- Dilworth, John, assignor to The Favorite Stove and Range Company, Piqua, Ohio. Gas stove. 1,722,411; July 30.
- Di Martino, Gabriel A. (See Gottlieb, A. H., and Di Martino.)
- Dimeo, James J., assignor to The Permold Company, Cleveland, Ohio. Apparatus for making castings. 1,709,249; Apr. 16.
- Dimeo, James J., assignor to The Permold Company, Cleveland, Ohio. Mold. 1,722,957; July 30.
- Di Medina, Pedro, Umatilla, Oreg. Photographic camera for automobiles. 1,733,783; Oct. 29.
- Dimes, Richard, jr., Winthrop, assignor to Richard Dimes Co., Boston, Mass. Dish or analogous article. Des. 77,939; Mar. 12.
- Dimes, Richard, Co. (See Dimes, Richard, jr., assignor.)
- Dimick, Daniel B., Birmingham, Ala. Apparatus for casting spiral corrugated pipe. 1,732,183; Oct. 15.
- Dimick, Lewis O., assignor, by mesne assignments, to G. E. La Vietes, New Haven, Conn. Windshield wiper. 1,730,998; Oct. 8.
- Dimitrakis, Constantine G., Boston, Mass. Ticket-dispensing machine. 1,713,748; May 21.
- Dimitroff, Joe. (See Stark, George W., assignor.)
- Dimmick, Walter W., Racine, Wis., assignor to Ajax Rubber Company, Inc., New York, N. Y. Axle press. 1,739,891; Dec. 17.
- Dimmig, Howard, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of lubricants. 1,729,823; Oct. 1.
- Dina, Augusto, Jersey City, N. J., assignor to International Projector Corporation, New York, N. Y. Base for a motion-picture machine. Des. 77,534; Jan. 22.
- Dina, Augusto, Jersey City, N. J., assignor to International Projector Corporation, New York, N. Y. Combined film gate and guard for a motion-picture-projection machine. Des. 77,940; Mar. 12.
- Dina, Augusto, Jersey City, N. J., assignor to International Projector Corporation, New York, N. Y. Pedestal support for a motion-picture-projection machine. Des. 77,941; Mar. 12.
- Dina, Augusto, Jersey City, N. J., assignor, by mesne assignments, to International Projector Corporation, New York, N. Y. Framing light for motion-picture-projecting machines. 1,718,540; June 25.
- Dina, Augusto, Jersey City, N. J., assignor to International Projector Corporation, New York, N. Y. Film-presser pad and mounting therefor. 1,728,670; Sept. 17.
- Dinardo, Giovanni, Philadelphia, and J. Cefaratti, Darby, Pa. Blower and smoke consumer. 1,741,101; Dec. 24.
- Dinesen, Laurits, Minneapolis, Minn. Rotary pump. 1,724,008; Aug. 13.
- Dinesen, Laurits, Minneapolis, Minn. Rotary pump. 1,729,764; Oct. 1.
- Dinhofer, Harry, New York, N. Y. Finger ring. 1,702,893; Feb. 19.
- Dinhofer, Harry, New York, N. Y. Watchcase. 1,702,894; Feb. 19.
- Dinhofner, Julius, New York, N. Y. Connection device for watches. 1,702,895; Feb. 19.
- Dininger, Ray A. (See Smith, J. L., and Dininger.)
- Dinklage, August, East Orange, N. J. Tool for applying and removing anchoring devices. 1,740,153; Dec. 17.
- Dinley, Clarence F., Detroit, Mich. Removal of foreign substances from metal surfaces. 1,729,765; Oct. 1.
- Dinley, Clarence F., Detroit, Mich. Cleaning of metal surfaces. 1,729,766; Oct. 1.
- Dinley, Clarence F., Detroit, Mich. Preparation for removing foreign substances from metal surfaces. 1,729,767; Oct. 1.
- Dinsmore, Clarence B., assignor to A C Spark Plug Company, Flint, Mich. Lamp reflector for instrument illumination. 1,697,813; Jan. 1.
- Dinsmore, Clarence B., assignor to A C Spark Plug Company, Flint, Mich. Odometer reset mechanism. 1,727,815; Sept. 10.
- Dinsmore, Ray P., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Shaping fabric bands. 1,701,472; Feb. 5.
- Dinsmore, Ray P., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding caoutchouc. 1,712,333; May 7.
- Dinsmore, Ray P., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Synthetic rubber and making it. 1,732,795; Oct. 22.
- Dinspel, William H., Bellerose Manor, N. Y. Delivery apparatus for pneumatic dispatch systems. 1,729,999; Oct. 1.
- Dinspel, William H., assignor to G & G Atlas Systems, Inc., New York, N. Y. Cash-box construction. 1,721,588; July 23.
- Dinstman, Isidor, New York, N. Y., assignor to Diel Watch Case Company. Strap holder for watchcases. 1,730,920; Oct. 8.
- Dinstuhl, Neely B., Memphis, Tenn. Attaching sheets to mattresses. 1,742,064; Dec. 31.
- Dinzl, Richard W., Bywood, assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Valve structure. 1,733,784; Oct. 29.
- Dinzl, Richard W., Margate City, N. J., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Elevating mechanism. 1,707,212; Mar. 26.
- Dionne, Arthur A. (See Burnham, M. U., Argabrite, and Dionne.)
- Dip-It Inc. (See Schlatter, Eugene R., assignor.)
- Di Rebaylio, Leo, Bloomfield, N. J. Step-by-step pencil case. 1,703,596; Feb. 26.
- Di Rebaylio, Leo, Bloomfield, N. J. Multicolor pencil case. 1,731,683; Oct. 15.
- Directoplate Corporation. (See Koppe, Alexander T., assignor.)
- Dirigible Headlight Company. (See Olney, Oscar L., assignor.)
- Dirigible Headlight Company. (See Olney, O. L., and Hurley, assignors.)
- Dirk, Ida A., Chicago, Ill. Doll. Des. 77,354; Jan. 1.
- Dirkes, Robert F. (See Wheeler, E. R., and Dirkes.)
- Dirksen, Clarence A., Dubuque, Iowa. Electric testing tool. 1,738,287; Dec. 3.
- Dirksen, Ralph. (See Dohrn, M., and Dirksen.)
- Dirschauer, Jacob A., Evansville, Ind. Rotary soil cutter. 1,718,541; June 25.
- Dirschauer, Jacob A., Evansville, Ind. Air-operated agricultural machine. 1,718,638; June 25.



- Dirzuweit, John F., Baltimore County, assignor to W. W. Varney, Baltimore, Md. Electric toaster. 1,739,128; Dec. 10.
- Disbro, Roger W., Cleveland Heights, assignor to The W. S. Tyler Company, Cleveland, Ohio. Wheel construction. 1,737,360; Nov. 26.
- Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Lightened construction for rail joints. 1,713,425; May 14.
- Disch, John E., Dolgeville, N. Y. Rosette-making method. 1,713,467; May 14.
- Disco, Noah C., Pittsfield, Mass. Jar opener. 1,734,204; Nov. 5.
- Dishart, Samuel H., Coney Island, N. Y. Sanitary cover for the nipples of babies' drinking bottles made of paper or similar material. 1,716,262; June 4.
- Dishman, Russell G., Anniston, Ala. Device for holding moldings. 1,711,342; Apr. 30.
- Di Silvestro, Joseph, Lancaster, Pa. Floor lamp. Des. 80,075; Dec. 10.
- Di Silvestro, Joseph, assignor to Hubley Manufacturing Company, Lancaster, Pa. Floor lamp. Des. 79,638; Oct. 22.
- Di Silvestro, Joseph, assignor to Hubley Manufacturing Company, Lancaster, Pa. Floor lamp. Des. 79,639; Oct. 22.
- Di Silvestro, Joseph, assignor to Hubley Manufacturing Company, Lancaster, Pa. Floor lamp. Des. 79,640; Oct. 22.
- Di Silvestro, Joseph, assignor to Hubley Manufacturing Company, Lancaster, Pa. Floor lamp. Des. 79,641; Oct. 22.
- Di Silvestro, Joseph, assignor to Hubley Manufacturing Company, Lancaster, Pa. Floor lamp. Des. 79,642; Oct. 22.
- Di Silvestro, Joseph, assignor to Hubley Manufacturing Company, Lancaster, Pa. Floor lamp. Des. 79,643; Oct. 22.
- Disler, Enos J., Tiffin, Ohio. Piano sound board. 1,727,637; Sept. 10.
- Disperoid Syndicate, Ltd. (See Plauson, Hermann, assignor.)
- Dispersions Process, Inc. (See Pratt, William B., assignor.)
- Dispersions Process, Inc. (See Richards, Thomas G., assignor.)
- Dissel, Hugo F., Rochester, N. Y. Automatically-operated explosion door. 1,735,238; Nov. 12.
- Disser, Louis, J., sr., Ferguson, Mo. Vending machine. 1,710,209; Apr. 23.
- Disser, Louis J., sr., Ferguson, Mo. Savings bank. 1,710,210; Apr. 23.
- Diston, Henry, & Sons, Incorporated. (See Charlton, Richard C., assignor.)
- Di Stefano, Jack, Kansas City, Mo. Ice pick. 1,701,771; Feb. 12.
- Distefano, Quirino V., Waterbury, Conn. Apparatus for generating electricity. 1,734,245; Nov. 5.
- Disteli, Alfred M., Olten, Switzerland, assignor to R. W. Cramer & Company, Inc., New York, N. Y. Liquid-contact switch. 1,726,426; Aug. 27.
- Dister, Joseph, Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Ball ear and applying the same. 1,710,972; Apr. 30.
- Distler, Julius P., trustee. (See Denning, J. Wayne, assignor.)
- Di Tella, Torcuato, Buenos Aires, Argentina. Pump for the delivery of liquids in predetermined amounts. 1,734,421; Nov. 5.
- Ditesheim, Isidore, assignor to Fabriques Movado, La Chaux-de-Fonds, Switzerland. Winding device for timepieces. 1,707,906; Apr. 2.
- Dithridge, James D., New York, N. Y., assignor to Bryce Brothers Company, Mount Pleasant, Pa. Goblet or similar article. Des. 78,507; May 14.
- Dithridge, James D., New York, N. Y., assignor to Bryce Brothers Company, Mount Pleasant, Pa. Footed tumbler or similar article. Des. 80,021; Dec. 3.
- Ditsheim, Robert, La-Chaux-de-Fonds, Switzerland. Speed-regulating device. 1,716,952; June 11.
- Ditson, Jesse. (See Peters, A. B., and Ditson.)
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Shank and bit punch. 1,698,783; Jan. 15.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Support for implement retainers. 1,728,601; Sept. 17.
- Dittlinger-Crow Company. (See Crow, Waller, assignor.)
- Dittmar, Elmer C., assignor to The Cromar Company, Williamsport, Pa. Machine for finishing flooring. 1,719,001; July 2.
- Ditto, Incorporated. (See Williams, William E., assignor.)
- Divan, Frank H., Monroe, Wis. Pony wagon. Des. 79,459; Sept. 24.
- Diveco-Detroit Corporation. (See Bacon, George M., assignor.)
- Diveley, Rex L., and F. D. Dickson, Kansas City, Mo. Infant's shoe. 1,701,839; Feb. 12.
- Diveley, Rex L., and F. D. Dickson, Kansas City, Mo. Shoe. 1,720,120; July 9.
- Diven, Louis, Cynwyd, Pa., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler platform. 1,713,956; May 21.
- Diversey Manufacturing Company. (See Adler, Howard, assignor.)
- Divine, Bradford H., Utica, N. Y. Buffing-wheel cloth and making the same. 1,737,574; Dec. 3.
- Dix, Clarence A., Detroit, Mich. Metal-shaping machine. 1,719,002; July 2.
- Dix, Earl A. (See Richmond, E. A., and Dix.)
- Dixon, Alfrie E., Minneapolis, Minn. Lamp shade and making the same. 1,733,451; Oct. 29.
- Dixon, Harold W. A., New York, N. Y. Colloid-treating apparatus. 1,702,380; Feb. 19.
- Dixon, Harold W. A., New York, N. Y. Rotary disk valve. 1,717,012; June 11.
- Dixon, Harold W. A., New York, N. Y. Preparing carbon dopes. 1,718,949; July 2.
- Dixon, Harold W. A., Hollis, assignor to Columbia Ribbon & Carbon Manufacturing Company, Inc., New York, N. Y. Wide fabric prepared to be slit and preparing the same. 1,703,481; Feb. 26.
- Dixon, James F., Los Angeles County, Calif. Fuel-control device for internal-combustion engines. 1,721,989; July 23.
- Dixon, John W., Maywood, Ill. Easel bracket. 1,712,756; May 14.
- Dixon, Lewis M., Bloomfield, N. J., assignor of one-half to S. Bolin and one-half to L. M. Bolin, Chicago, Ill. Cover for springs. 1,700,720; Jan. 29.
- Dixon, Walter L., assignor to Reece Folding Machine Company, Boston, Mass. Folding machine. 1,705,660; Mar. 19.
- Dixon, Walter L., assignor to Reece Folding Machine Company, Boston, Mass. Folding machine. 1,717,373; June 18.
- Dixon, William E., assignor of one-half to P. E. Showalter, Los Angeles, Calif. Utility truck. 1,725,624; Aug. 20.
- Dixon, Harry, assignor to Rolscreen Company, Pella, Iowa. Screen housing. 1,722,958; July 30.
- Dixon, Harry, assignor to Rolscreen Company, Pella, Iowa. Rolling-window-screen construction. 1,730,649; Oct. 8.
- Dixon, Harry, assignor to Rolscreen Company, Pella, Iowa. Plaster-channel installation for screen guides. 1,735,496; Nov. 12.
- Dixon, Harry, assignor to Rolscreen Company, Pella, Iowa. Plaster-channel installation for screen guides. 1,736,432; Nov. 19.
- Dixon, Harry, assignor to Rolscreen Company, Pella, Iowa. Casing-supporting and track-receiving device. 1,736,760; Nov. 19.
- Dixon, Harry, Des Moines, assignor to Rolscreen Company, Pella, Iowa. Rolling-screen installation. 1,741,922; Dec. 31.
- Djurson, Axel R. K., assignor to Svenska Aktiebolaget Bromsregulator, Malmö, Sweden. Guiding means for brake shoes. 1,724,795; Aug. 13.
- Dlouhy, August, Wallingford, Conn. Drapery-rod centerpiece. Des. 79,703; Oct. 29.
- Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole ring. Des. 77,473; Jan. 15.
- Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,474; Jan. 15.
- Dmitrieff, Alexander L., Brooklyn, N. Y. Pontoon for automobiles. 1,715,905; June 4.
- Dmytro, Soslak. (See Stachnyk, Nicholas, assignor.)
- Doak, Leonard W., Dravosburg, Pa. Steamboat rudder. 1,698,086; Jan. 8.
- Doane, Harry C., Flint, assignor to General Motors Corporation, Detroit, Mich. Steering-column combination lighting and ignition switch control. 1,729,373; Sept. 24.
- Doane, Harry C., Flint, and L. Blackmore, Highland Park, assignors to General Motors Corporation, Detroit, Mich. Switch construction. 1,738,764; Dec. 10.
- Doane, Leroy C., assignor, by mesne assignments, to The Miller Company, Meriden, Conn. Holder for shades or reflectors. 1,701,175; Feb. 5.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Dustproof closure for lighting units. 1,701,176; Feb. 5.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Swivel joint. 1,703,482; Feb. 26.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Stencil and making the same. 1,708,084; Apr. 9.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Theater lighting apparatus. 1,711,263; Apr. 30.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Shade holder. 1,711,264; Apr. 30.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,730,810; Oct. 8.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Shade holder. 1,733,586; Oct. 29.
- Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 1,735,997; Nov. 19.
- Doane, Le Roy C., and A. B. Megraw, assignors to The Miller Company, Meriden, Conn. Chandelier. 1,741,408; Dec. 31.
- Doarnberger, John A. (See Pilcher, J. A., and Doarnberger.)
- Doat, Henri, Brussels, assignor to Compagnie Generale Des Conduites d'Eau, Societe Anonyme, Liege, Belgium. 1,697,636; Jan. 1.
- Dobbelstein, Karoline, administratrix. (See Dobbelstein, Otto.)
- Dobbelstein, Karoline, executrix. (See Dobbelstein, Otto.)
- Dobbelstein, Otto, deceased, Essen, Germany; K. Dobbelstein, executrix. Apparatus for drying, charring, and otherwise treating loose material. 1,714,853; May 28.



- Dobbelstein, Otto, deceased, Essen-on-the-Ruhr, Germany; K. Dobbelstein, executrix. Apparatus for drying, charring, and otherwise treating loose material. 1,718,542; June 25.
- Dobbelstein, Otto, deceased, by K. Dobbelstein, administratrix, Essen-on-the-Ruhr, Germany. Apparatus for drying, charring, and otherwise treating loose material. 1,718,543; June 25.
- Dobbelstein, Otto, deceased, by K. Dobbelstein, administratrix, Essen-on-the-Ruhr, Germany. Apparatus for drying, charring, and otherwise treating loose material. 1,718,544; June 25.
- Dobben, Pieter W., J. G. W. Mulder, and E. Oosterhuis, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Incandescent cathode. 1,718,123; June 18.
- Dobbins, George, Berkeley, Calif. Body stretcher. 1,701,747; Feb. 12.
- Dobbins, Horace M., Pasadena, Calif. Duplex monorail. Production of unhardened castings in metal molds. 1,699,612; Jan. 22.
- Dobbins, Timothy C., assignor of one-half to L. Boatman, Denver, Colo. Springboard. 1,698,751; Jan. 15.
- Dobbs, Loyal D., assignor to Minneapolis Bedding Company, Minneapolis, Minn. Folding bed. 1,705,910; Mar. 19.
- Dobbs, Redus D., Houston, Tex. Well-drilling apparatus. 1,697,590; Jan. 1.
- Dobhoff, Walter, Berndorf, Austria. Motor-vehicle transmission mechanism. 1,739,129; Dec. 10.
- Doble, Bradley, Elmhurst, assignor to American Arch Company, New York, N. Y. Ignition arch. 1,712,071; May 7.
- Doble, Bradley, Chicago, Ill., assignor to American Arch Company. Furnace arch. 1,738,527; Dec. 10.
- Dobil, John J., Chicago, Ill. Mop and brush holder. 1,735,918; Nov. 19.
- Dobinson, William J., Somerville, Mass. Photo-engraver's cabinet. 1,741,684; Dec. 31.
- Doble, Abner, Berkeley, Calif., assignor to Doble Steam Motors Corporation, Wilmington, Del. Locomotive. 1,732,462; Oct. 22.
- Doble Laboratories. (See Doble, Warren, assignor.)
- Doble, Ralph N., Bayside, N. Y., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 1,700,672; Jan. 29.
- Doble, Ralph N., Bayside, N. Y., assignor to Pneumatic Scale Corporation, Limited, Norfolk, Downs, Mass. Packaging machine. 1,726,060; Aug. 27.
- Doble Steam Motors Corporation. (See Doble, Abner, assignor.)
- Doble Steam Motors Corporation. (See Doble, Warren, assignor.)
- Doble Steam Motors Corporation. (See Jensen, Albert L., assignor.)
- Doble, Warren, assignor to Doble Laboratories, San Francisco, Calif. Boiler-control system. 1,724,996; Aug. 20.
- Doble, Warren, Berkeley, Calif., assignor to Doble Steam Motors Corporation, Wilmington, Del. Steam-boiler-control system. 1,732,796; Oct. 22.
- Doble, William H. (See Cleaves, George C., assignor.)
- Doboi, Joseph, Paris, France. Notebook. 1,731,192; Oct. 8.
- Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Flaring tool. 1,724,697; Aug. 13.
- Dobrowsky, Emmanuel, New York, N. Y. Card holder. 1,700,786; Feb. 5.
- Dobson & Barlow Limited. (See Lever, J., and Hill, assignors.)
- Dobson, Percy R., assignor to Bell Equipment Company Limited, Calgary, Alberta, Canada. Door-operating mechanism. 1,723,503; Aug. 6.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,696,906; Jan. 1.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriter-carrying-case lock. 1,700,254; Jan. 29.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,713,075; May 14.
- Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,715,906; June 4.
- Dockery, Elanna S., Waco, Tex. Windshield screen. 1,702,963; Feb. 19.
- Dodd, Arthur H. (See Bates, A. and Dodd.)
- Dodd, Charles E., Williamsport, Pa. Fastener. 1,718,124; June 18.
- Dodd, Gerald D., Oaklyn, N. J., assignor to H. S. B. W. Cochrane Corporation, Philadelphia, Pa. Weir meter. 1,710,474; Apr. 23.
- Dodd, John W., Brookline, assignor to George T. McLauthlin Company, Boston, Mass. Door lock. 1,718,456; June 25.
- Dodd, West, Des Moines, Iowa. System for protecting petroleum tanks and tank farms against lightning and electrical sparks. 1,735,530; Nov. 12.
- Doddridge, Elmer, South Bend, Ind. Shock absorber. 1,734,157; Nov. 5.
- Dodds, Ethan I., jr. (See Dodds, Ethan I. and E. I., jr.)
- Dodds, Ethan I., Central Valley, and E. I. Dodds, jr., New York, N. Y.; said E. I. Dodds, jr., assignor to Ethan I. Dodds, sr. Hand sanding machine. 1,738,062; Dec. 3.
- Dodds, Ethan I., Central Valley, and E. I. Dodds, jr., New York, N. Y.; said E. I. Dodds, jr., assignor to Ethan I. Dodds, sr. Hand sanding machine. 1,738,063; Dec. 3.
- Dodds, Robert H. (See English, F. S., and Dodds.)
- Dodds, Thomas, Banksville Township, Allegheny County, assignor of one-half to F. E. Adams, Dormont, Pa. Headlight for motor vehicles. 1,710,351; Apr. 23.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. Re17,373; July 16.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake construction. 1,705,855; Mar. 19.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,705,856; Mar. 19.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake oil guard. 1,709,250; Apr. 16.
- Dodge, Adiel Y., South Bend, Ind., assignor to The Bendix Corporation, Chicago, Ill. Hydraulic-brake construction. 1,710,352; Apr. 23.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,715,318; May 28.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Vehicle. 1,719,878; July 9.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating connection. 1,723,646; Aug. 6.
- Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,728,671; Sept. 17.
- Dodge, Andrew J., and J. C. Pettibone, Ansonia, Conn. Window screen. 1,733,652; Oct. 29.
- Dodge, Arthur L., Springfield, Mass. Gearing for hoisting drums. 1,706,109; Mar. 19.
- Dodge, Frederick, Astoria, N. Y. Skid prevention for automobiles. 1,739,713; Dec. 17.
- Dodge, Gordon F. (See Von Thaden, H., and Dodge.)
- Dodge, John J., et al. (See Bright, Seth L., assignor.)
- Dodge Manufacturing Corporation. (See Bodle, Alexander T., assignor.)
- Dodge Manufacturing Corporation. (See Turnbull, David C., assignor.)
- Dodge, Merton L. (See Pearson, P. E., and Dodge.)
- Dodge, Milo C., assignor to Columbian Rope Company, Auburn, N. Y. Filler for cables. 1,700,434; Jan. 29.
- Dodge, Milton L., Newburyport, Mass. Making turn shoes. 1,701,997; Feb. 12.
- Dodge, Milton L., Newburyport, Mass. Making turn shoes. 1,707,656; Apr. 2.
- Dodge, Milton L., Newburyport, Mass. Finishing shoes. 1,722,790; July 30.
- Dodge, Milton L., and H. A. Jordan, Newburyport, Mass.; said Jordan assignor to said Dodge. Molding machine. 1,709,842; Apr. 23.
- Dodge, Nathaniel S., Piedmont, Calif. Sand bag. 1,700,979; Feb. 5.
- Dodge, Parker, Somerset, Md. Temperature regulation. 1,720,723; July 16.
- Dodge, Samuel W. (See Savage, H., assignor.)
- Dodgson, Frank L., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,720,644; July 9.
- Dodgson, Frank L., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,720,645; July 9.
- Dodgson, Frank L., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,720,646; July 9.
- Dodman, Alfred C., jr., Summit, N. J. Wall paper. Des. 78,564; May 21.
- Dodman, Alfred C., jr., Summit, N. J. Wall paper. Des. No. 78,733; June 18.
- Dodman, Alfred C., jr., Summit, N. J. Wall paper. Des. 78,734; June 18.
- Dodman, Alfred C., jr., Summit, N. J. Wall paper. Des. 78,969; July 16.
- Dodman, Alfred C., jr., Summit, N. J. Wall paper. Des. 78,970; July 16.
- Dodman, Alfred C., jr., Summit, N. J. Wall paper. Des. 79,584; Oct. 15.
- Dodson, Harold S., Royal Oak, and S. J. Marx, Detroit, Mich. Manufacturing heat-radiating units. 1,706,056; Mar. 19.
- Dodson, Nicholas F., Denver, Colo. Man's undergarment. 1,712,072; May 7.
- Doe, Albion N., Jackson Heights, L. S. Briggs, Douglaston, J. W. Donaldson, Irvington-on-Hudson, N. Y., and B. L. Polkosnik, Greenwich, Conn. Visible card record. 1,728,672; Sept. 17.
- Doehler, Charles F., New York, N. Y. Hammer. 1,721,270; July 16.
- Doehler, Charles F., Austin, Tex., assignor to Perfect Point Pencil Corporation, New York, N. Y. Rechargeable pencil. 1,723,504; Aug. 6.
- Doehler Die-Casting Company. (See Morin, Louis H., assignor.)
- Doehler Die-Casting Co. (See Vêricel, Antoine, assignor.)
- Doehler Products Corp. (See Vêricel, Antoine, assignor.)
- Doehler Vending Machines, Inc. (See Morin, Louis H., assignor.)



- Doelfel, John G. (See Sauer, Conrad, assignor.)  
Doell, Theodore W. (See Cushman, O. E., and Doell.)  
Doelter, Otto, Monterey, Calif. Insulator. 1,707,054; Mar. 26.  
Doerfinger, William F., West New Brighton, N. Y. Electrical insulation. 1,721,295; July 16.  
Doerinkel, Fritz, Leverkusen-on-the-Rhine, and L. Mehler, Dormagen-on-the-Rhine, Germany, assignors, by mesne assignments, to Titanium Pigment Co., Inc., New York, N. Y. Manufacture of titanium dioxide. 1,738,763; Dec. 10.  
Doering, Albert L., Germantown, Pa. Casement fastener. 1,704,560; Mar. 5.  
Doering, Charles, Chicago, Ill. Display merchandising stand. Des. 77,400; Jan. 8.  
Doering, Charles and H. H., Chicago, Ill. Cheese-treating machine. 1,716,488; June 11.  
Doering, Charles J. and W. M., Cincinnati, Ohio. Tire stand. 1,725,181; Aug. 20.  
Doering, Henry H. (See Doering, Charles and H. H.)  
Doering, William M. (See Doering, Chas. J. and W. M.)  
Doerman, Albert J., Chicago, Ill. Abrasive disk. 1,733,723; Oct. 29.  
Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Freight-car truck or tender truck. 1,735,239; Nov. 12.  
Doerr, Louis J., St. Louis, Mo. Internal-combustion engines. 1,721,899; July 23.  
Doerr, Martin, San Francisco, Calif. Game device. 1,720,946; July 16.  
Doerschuk, Carl F., Youngstown, Ohio. Securing device. 1,709,251; Apr. 16.  
Doetsch & Bauer Company. (See Bauer, Carl, assignor.)  
Dogendorf, John A., Detroit, Mich. Flashing. 1,713,269; May 14.  
Dognaux, Rene J., assignor to Blackford Window Glass Company, Vincennes, Ind. Continuous drawing of a plurality of bulb-edged glass sheets. 1,702,501; Feb. 19.  
Doheny-Stone Drill Co. (See Stone, Frederick, assignor.)  
Doherty, Clark W., Phoenix, Ariz. Cable terminal connector. 1,724,753; Aug. 13.  
Doherty, Edward M. (See Jeffries, J. H., and Doherty.)  
Doherty, Edward M., and J. H. Jeffries, Los Angeles, Calif. Hole-forming tool. 1,721,007; July 16.  
Doherty, Ella M., et al., executors. (See Doherty, James.)  
Doherty, James, deceased, Chicago, Ill.; E. M. Doherty and J. R. Doherty, executors. Sectional furnace. 1,724,462; Aug. 13.  
Doherty, James, deceased, Chicago, Ill.; E. M. Doherty and J. R. Doherty, executors. Sectional furnace. 1,737,003; Nov. 26.  
Doherty, James R., et al., executors. (See Doherty, James.)  
Doherty Research Company. (See Bjerregaard, August P., assignor.)  
Doherty Research Company. (See Blair, Thomas S., assignor.)  
Doherty Research Company. (See Burke, Stephen P., assignor.)  
Doherty Research Company. (See Griswold, Robert G., assignor.)  
Doherty Research Company. (See Isham, Robert M., assignor.)  
Doherty Research Company. (See Lowe, Russell E., assignor.)  
Doherty Research Company. (See Merley, Sylvan R., assignor.)  
Doherty Research Company. (See Morgan, John D., assignor.)  
Doherty Research Company. (See Nevins, Charles A., assignor.)  
Doherty Research Company. (See Rush, Earl S., assignor.)  
Doherty Research Company. (See Schwartz, Stephen, assignor.)  
Doherty Research Company. (See Young, Cyril C., assignor.)  
Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Production of alkyl resorcinols. 1,697,168; Jan. 1.  
Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Heptyl resorcinols and producing the same. 1,717,098; June 11.  
Dohnal, Jan, Dobris, Czechoslovakia. Screw clamp. 1,741,923; Dec. 31.  
Dohogne, Albert J. (See Gunn, C. B., and Dohogne.)  
Dohrn, Max, and R. Dirksen, Berlin-Charlottenburg, Germany, assignors to Schering-Kahlbaum Aktiengesellschaft. Producing pyridine derivatives. 1,706,775; Mar. 26.  
Dohrn, Max, and R. Dirksen, Berlin-Charlottenburg, assignors to the Firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Chloro-iodides of 2-amino-proline-salts and making same. 1,723,457; Aug. 6.  
Dolron, Houston P. and L. D. Titus, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Stacking machine. 1,721,900; July 23.  
Dolan, John, Dayton, Ohio. Safety device for street cars and similar vehicles. 1,739,714; Dec. 17.  
Dolan, John K., Los Angeles, Calif. Rabbit-hutch feeding apparatus. 1,719,104; July 2.  
Dolan, Charles H., Jr., Honolulu, Hawaii. Machine for treating the tops of pineapples. 1,723,606; Aug. 6.  
Dolan, Charles H., Jr., Honolulu, Hawaii. Machine for treating the tops of pineapples. 1,734,159; Nov. 5.  
Dolcimascolo, Salvatore, Brooklyn, N. Y. Aeroplane. 1,741,617; Dec. 31.  
Dold, Donald T., et al. (See Saffold, C. R., and Tauffener, assignors.)  
Dold, M'Liss, et al. (See Saffold, C. R., and Tauffener, assignors.)  
Dolder, William B. (See Breunig, Earl S. and L. J., and Dolder.)  
Dolezal, John V., Beeville, Tex. Wire-threading bit. 1,712,876; May 14.  
D'Olier, Henry, Jr., Bridgeport, Conn. Supporting chain for electrical conductors. 1,702,502; Feb. 19.  
D'Olier, Henry, Jr., Bridgeport, Conn. Electrical-fixture construction. 1,714,399; May 21.  
D'Olier, Henry, Jr., Bridgeport, Conn. Electrical connector. 1,717,877; June 18.  
D'Olier, Henry, Jr., Bridgeport, Conn. Fixture-support. 1,730,031; Oct. 1.  
D'Olier, William L., Philadelphia, Pa., assignor, by mesne assignments, to C. H. Gray, and J. Schaaf, Buffalo, and W. G. Peuchen, North Tonawanda, N. Y. Filter screen. 1,717,313; June 11.  
D'Olier, William L., Philadelphia, Pa., assignor, by mesne assignments, to C. H. Gray and J. Schaaf, Buffalo, and W. G. Peuchen, North Tonawanda, N. Y. Sludge-collecting device. 1,717,764; June 18.  
D'Olier, William L., Philadelphia, Pa., assignor, by mesne assignments, to C. H. Gray and J. Schaaf, Buffalo, N. Y., and W. G. Peuchen, North Tonawanda, N. Y. Screen. 1,740,578; Dec. 24.  
Doll, Clyde J., Trenton, assignor to Excello Transmission Company, Camden, N. J. Adjustable eccentric drive for transmissions. 1,700,562; Jan. 29.  
Doll, Clyde J., Trenton, assignor to Excello Transmission Company, Camden, N. J. Transmission. 1,723,770; Aug. 6.  
Doll, Fred W. (See Kleinsmith, H. B., Neely, and Doll.)  
Doll, Ludwig, Heidelberg, Germany. Potato masher. 1,712,424; May 7.  
Dollar Savings and Trust Company, executor. (See Kane, Thomas H.)  
Dollar Savings and Trust Company, The, et al., executors. (See Burt, Harry B.)  
Dölling, Arthur, Siebenbrunn, Germany. Pedal protector. 1,736,309; Nov. 19.  
Dollinger, Lewis L., Rochester, N. Y. Air filter. 1,714,854; May 28.  
Dolphin, James, Hampton-in-Arden, assignor of one-third to H. J. Yates, London, and M. Howlett & Company, Limited, Birmingham, England. Automatic control apparatus for gas burners. 1,736,649; Nov. 19.  
Dolsen, Raymond N., Los Angeles, Calif. Demountable rim for pneumatic tires. 1,705,397; Mar. 12.  
Dom, Alexander, assignor to J. D. Berger, Cincinnati, Ohio. Ground vase. 1,723,969; Aug. 6.  
Doman, Aladár, Budapest, Hungary, assignor to Lampen-und Metallwarenfabriken R. Ditmar-Gebrüder, Brunner A. G., Vienna, Austria. Burner for liquid fuels. 1,708,013; Apr. 9.  
Doman, John F., Los Angeles, Calif. Ironing board. 1,727,756; Sept. 10.  
Domagall, John E., assignor to W. H. Maze Company, Peru, Ill. Device for setting glaziers' points. 1,736,190; Nov. 19.  
Domber, Joseph, Bronx, N. Y., assignor to Peerless Sample Card Co. Inc., New York, N. Y. Sample mount and making the same. 1,713,523; May 21.  
Dombrow, Rudolph C., Riverside, Ill. Smoking toy locomotive. 1,737,787; Dec. 3.  
Domerude, Carl, Everett, Wash. Toothpick holder. 1,705,241; Mar. 12.  
Domestic Electric Company, The. (See Poesse, Walter H., assignor.)  
Domestic Electric Company, The. (See Soule, George M., assignor.)  
Domestic Stoker Company. (See Wightman, Merle J., assignor.)  
Domingo, Faustino J., Topeka, Kans. Bobbing target. 1,738,874; Dec. 10.  
Dominick, Franklin, Yonkers, N. Y. Window screen. 1,705,442; Mar. 12.  
Dominick, Theodore, Wenatchee, Wash. Hatchet. 1,718,733; June 25.  
Dominion Electrical Mfg. Company. (See Shaffer, Benjamin, assignor.)  
Dominion Wood Heel Corporation. (See Raymond, Ralph L., assignor.)  
Domiguez, Manuel D., New Orleans, La. Electric hammer and similar tool. 1,723,607; Aug. 6.  
Donitz, David F., Cleveland, Ohio. Combined boring, reaming and tapping machine. 1,704,358; Mar. 5.  
Dommer, Otto, Karlsruhe, Baden, Germany. Apparatus for determining the calorific value of gases. 1,720,782; July 16.  
Domore Chain Company. (See Olson, Percy W.)  
Domore Chair Company. (See Fletcher, Philip, assignor.)  
Domoto, Takanoshin, Oakland, Calif. Canning abalone. 1,738,064; Dec. 3.  
Douries, Otto, Anaheim, Calif. Ridging and blocking machine. 1,724,646; Aug. 13.  
Donada, Benito J., Refugio, Tex. Vehicle for manual cotton pickers. 1,698,125; Jan. 8.  
Donahoe's Inc. (See Waters, James A., assignor.)



- Donahue, Thomas H., and F. F. Frick. Anaconda, Mont. Flotation agents, process of preparing them, and using the same. 1,711,087; Apr. 30.
- Donahue, William, et al. (See Kenworthy, Robert R., assignor.)
- Donald, Forrest V., assignor to The Gilson Manufacturing Company, Port Washington, Wis. Transmission unit. 1,734,718; Nov. 5.
- Donaldson, Alice, New York, N. Y. Making pictures and designs. 1,725,571; Aug. 20.
- Donaldson, Edwin A., Lincoln, Nebr. Wax eliminator. 1,726,345; Aug. 27.
- Donaldson, Frank E., Oakland, Calif. Heating, ventilating, and cooling device. 1,721,589; July 23.
- Donaldson, George, Los Angeles, Calif. Combination pliers and wire-twisting tool. 1,740,392; Dec. 17.
- Donaldson, John W. (See Doe, A. N., Briggs, Donaldson, and Polkosnik.)
- Donaldson, Joseph G. (See Coles, H. L., and Donaldson.)
- Donaldson, Joseph G., assignor to Guardian Metals Company, Hamilton, Ohio. Metallic article of manufacture. 1,703,416; Feb. 26.
- Donaldson, Joseph G., assignor to Guardian Metals Company, Hamilton, Ohio. Making composite articles for safe or vault construction. 1,703,417; Feb. 26.
- Donaldson, Joseph G., and H. L. Coles, assignors to Guardian Metals Company, Hamilton, Ohio. Composite article and forming the same. 1,703,661; Feb. 26.
- Donaldson, Joseph G., and H. L. Coles, assignors to Guardian Metals Company, Hamilton, Ohio. Refractory material. 1,703,662; Feb. 26.
- Donaldson Manufacturing Company Limited. (See Hadden, William J., assignor.)
- Donat, Robert H. (See Gill, E. W. B., and Donaldson.)
- Donat, Karl, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Method of and apparatus for melting or fusing glass, quartz, or ceramic materials into metal caps and similar metal articles. 1,740,443; Dec. 24.
- Donato, Giuseppe, Philadelphia, Pa. Culinary disintegrator. 1,718,220; June 25.
- Donchi, Mendel, New York, N. Y. Tooth paste. 1,716,035; June 4.
- Donebauer, Alfred. (See Fischmann, Arnošt, assignor.)
- Doner, Martin J., Los Angeles, Calif. Windshield wiper. 1,725,253; Aug. 20.
- Doney, Calvin S., San Pedro, Calif. Fish-handling apparatus. 1,718,812; June 25.
- Doney, Edward. (See Thompson, Henry O., assignor.)
- Dongan Electric Manufacturing Company. (See Fallon, David V., assignor.)
- Donham, George S., Johnson County, Iowa. Wheel scraper. 1,704,465; Mar. 5.
- Donle, Harold P., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Variable resistance. 1,697,829; Jan. 1.
- Donle, Harold P., Meriden, Conn., assignor, by mesne assignments, to Radio Corporation of America. Electron device. 1,701,840; Feb. 12.
- Donle, Harold P., Meriden, Conn., assignor, by mesne assignments, to Radio Corporation of America. Electron discharge device. 1,712,032; May 7.
- Donle, Harold P., Meriden, Conn., assignor, by mesne assignments, to Radio Corporation of America. Radiodetector. 1,720,824; July 16.
- Donle, Harold P., Meriden, Conn., assignor, by mesne assignments, to Raytheon Inc., Cambridge, Mass. Gaseous conduction device. 1,731,889; Oct. 15.
- Donley Brothers Company, The. (See Donley, George W., assignor.)
- Donley, Charles A. and W. Etter, assignors to Lebanon Iron Company, Lebanon, Pa. Spike-making machine. 1,698,582; Jan. 8.
- Donley, George W., assignor to The Donley Brothers Company, Cleveland, Ohio. Andiron. Des. 77,821; Feb. 26.
- Donley, Harold E., assignor to The John W. Brown Mfg. Co., Columbus, Ohio. Lamp. 1,697,056; Jan. 1.
- Donley, Harold E., assignor to The John W. Brown Mfg. Co., Columbus, Ohio. Signal lamp for motor vehicles. 1,702,429; Feb. 19.
- Donnell, Allan D. (See Brecunier, R. A., Sherrill, and Donnell.)
- Donnellan, Edward P., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y. Wrapper holder for coin-counting machines. 1,710,353; Apr. 23.
- Donnellan, Edward P., assignor to Standard-Johnson Co., Inc., Brooklyn, N. Y. Coin-handling machinery. 1,721,511; July 23.
- Donnellan, Edward P., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y. Bag holder. 1,725,345; Aug. 20.
- Donnellan, James S., assignor of one-half to J. R. Shaw, Los Angeles, Calif. False teeth, plate, mold, and method of making. 1,708,665; Apr. 9.
- Donnelley, R. R., & Sons Co. (See Ackley, Raymond E., assignor.)
- Donnelley, R. R., & Sons Co. (See Alger, Harley C., assignor.)
- Donnelley, R. R., & Sons Company. (See Frazier, Philip A., assignor.)
- Donnellon, Alice I., Brooklyn, N. Y. Dishwasher. 1,728,153; Sept. 10.
- Donnelly, Joseph F., Lemont, Ill. Conversion of hydrocarbon oils. 1,712,789; May 14.
- Donnelly, Joseph F., Lemont, Ill. Still or the like. 1,714,855; May 28.
- Donnelly, Joseph F., South Bellingham, Wash. Lifting jack. 1,741,144; Dec. 31.
- Donnelly, Thomas H., Cranston, R. I. Collapsible funnel or the like. 1,740,418; Dec. 17.
- Donnelly, William T., Brooklyn, N. Y. Floating structure. 1,701,874; Feb. 12.
- Donohoe, Ella L., et al. (See Kivlan, John L., assignor.)
- Donosa, Leopold, Philadelphia, Pa. Hinge. 1,707,628; Apr. 2.
- Donovan, Alfred F., Boston, Mass. Shank iron for shoes. 1,730,970; Oct. 8.
- Donovan, John F. (See Stiles, W. H., Wagener, and Donovan.)
- Donovan, John J., Oakland, Calif. Window. 1,711,927; May 7.
- Donovan, Margaret, assignor of one-half to E. A. Wycoff, Tulsa, Okla. Shield. 1,730,999; Oct. 8.
- Donze, Ray, Kittanning, Pa. Brace and bit therefor. 1,729,541; Sept. 24.
- Doody, John W., Los Angeles, Calif. Underreamer. 1,733,452; Oct. 29.
- Dooley, Charles W., Delavan, Wis. Universal presser foot. 1,717,099; June 11.
- Dooley, Clarence H., Rock Island, Ill., assignor to Bettendorf Oil Burner Company, Bettendorf, Iowa. Oil burner. 1,699,654; Jan. 22.
- Dooley, Ellis B., Terre Haute, Ind. Window ventilator. 1,721,434; July 16.
- Dooley, George W., San Jose, Calif. Measure indicator. 1,713,891; May 21.
- Doolittle, Morgan O., Jamestown, N. Y. Clock case. Des. 78,091; Mar. 26.
- Doolittle, Morgan O., Jamestown, assignor to Bankers Development Corporation, New York, N. Y. Clock case. Des. 78,090; Mar. 26.
- Doolittle, Ora M. (See Alltop, Haymond A., assignor.)
- Dootson, Percy. (See Baddiley, J., Dootson, Shepherdson, and Thornley.)
- Doph, Robert B., Oakland, Calif. Soap bar. Des. 79,704; Oct. 29.
- Dopp, Carl A. (See Houser, A. M., and Dopp.)
- Dopyera, John, assignor to G. D. Beauchamp, T. E. Kleinmeyer, and P. Barth, Los Angeles, Calif. Stringed musical instrument. 1,741,453; Dec. 31.
- Dopyera, Rudolph, Los Angeles, Calif. Musical instrument. 1,730,032; Oct. 1.
- Doran Brothers. (See Thompson, Raymond.)
- Doran, James F., et al. (See Thompson, Raymond, assignor.)
- Doran, James J., deceased. Ely, Nev.; S. M. Doran, administratrix. Pin for soft collars. 1,737,453; Nov. 26.
- Doran, John C., et al. (See Thompson, Raymond, assignor.)
- Doran, John H., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,698,327; Jan. 8.
- Doran, Susan M., administratrix. (See Doran, James J.)
- Doran, Walter B., Huntington Park, assignor to The Parafine Companies, Inc., San Francisco, Calif. Packing device. 1,726,732; Sept. 3.
- Dorau, John P., Horicon, Wis. Ironing board. 1,717,013; June 11.
- Dorau, John P., Horicon, Wis. Ironing board. 1,717,014; June 11.
- D'Orazio, Alfred, Yonkers, N. Y. Drill. 1,741,507; Dec. 31.
- Dorey, George B., Evanston, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump car. 1,706,353; Mar. 19.
- Dorey, William A. (See Rolph, T. W., and Dorey.)
- Dorey, William A., Newark, Ohio, assignor, by mesne assignments, to Holophane Company, Inc., New York, N. Y. Reading lamp. 1,699,100; Jan. 15.
- Dorey, William A., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Luminaire. 1,731,714; Oct. 15.
- Dorey, William A., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Lighting apparatus. 1,740,229; Dec. 17.
- Dorgan, Jeremiah F., and V. Ales, assignor of one-third to W. T. Cobb, Ossining, N. Y. Spark plug. 1,721,435; July 16.
- Dorgeloh, George H. (See Thomas, R. N., and Dorgeloh.)
- Dorfman, Sidney, Bronx, N. Y. Fabric for stretching machines with preliminary stretching. 1,734,160; Nov. 5.
- Dorin, Anatol, Berlin-Charlottenburg, Germany. Tool-moving device for crank lathes. 1,713,892; May 21.
- Dorion, Michael, Rumford, Me. Safety door fastener. 1,717,964; June 18.
- Dorman, Neal W., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Clutch. 1,706,600; Mar. 26.
- Dormandy, Garry J., assignor to Lion Collar & Shirts, Inc., Troy, N. Y. Sewing machine. 1,704,824; Mar. 12.
- Dorment, Frank C., Wellington, Ohio, assignor of one-half to A. T. Fletcher, Washington, D. C. Inhaler. 1,703,764; Feb. 26.
- Dormoy, Jules M. J., Paris, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake equipment. 1,723,140; Aug. 6.
- Dormoy, Jules M. J., Paris, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-controlling valve device. 1,727,367; Sept. 10.
- Dorn, Chris, et al. (See Rice, Howard E., assignor.)



- Dorn, Frank A., Hamburg, N. Y. Photographic selecting and enlarging apparatus. 1,729,867; Oct. 1.
- Dorn, Harry P., Cleveland, Ohio. Clock casing. Des. 78,687; June 4.
- Dornes, Harry J., assignor to Visible Records Equipment Company, Chicago, Ill. Latch means for loose-leaf binders. 1,733,950; Oct. 29.
- Dornhecker, Henry C., Baltimore, Md. Floor-treating apparatus. 1,715,058; May 28.
- Dornhecker, Henry C., Baltimore, Md. Floor waxer and polisher. 1,715,059; May 28.
- Dornhecker, Henry C., Baltimore, Md. Floor waxer and polisher. 1,715,060; May 28.
- Dornier, Claudius, assignor to Dornier Metallbauten G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Truss having a plurality of struts for the wings of aeroplanes. 1,713,749; May 21.
- Dornier-Metallbauten G. m. b. H. (See Dornier, Claudius, assignor.)
- Dornseif, Hugo, Radevormwald, Germany. Apparatus for hardening the runners of ice skates. 1,711,633; May 7.
- Dorogi, Dr., Es Tarsa Gummigyar R. T. (See Dorogi, Istvan and L., assignors.)
- Dorogi, Istvan. (See Dorogi, Lajos and I.)
- Dorogi, Istvan and L., Budapest, assignors of one-half to Dr. Dorogi Es Tarsa Gummigyar R. T., Budapest-Albertfalva, Hungary. Thin-walled rubber articles and manufacturing same. 1,713,751; May 21.
- Dorogi, Lajos. (See Dorogi, Istvan and L.)
- Dorogi, Lajos and I., Budapest, Hungary. Producing inflatable bodies, for instance toys, of flat rubber plates without the use of molds. 1,697,459; Jan. 1.
- Doroski, John B., Calverton, N. Y. Sowing-device attachment for potato diggers. 1,705,911; Mar. 19.
- Dorr Company, The. (See Bousman, Samuel I., assignor.)
- Dorr Company, The. (See Coe, Harrison S., assignor.)
- Dorr Company, The. (See Gregorich, James, assignor.)
- Dorr Company, The. (See Knowles, John H., assignor.)
- Dorr Company, The. (See Snebold, Albert A., assignor.)
- Dörr, Wilhelm E. (See Schnitzer, B., and Dörr.)
- Dorrance, David W. (See Kosek, Joseph H., assignor.)
- Dorrance, David W., Minneapolis, Minn. Artificial limb. 1,740,230; Dec. 17.
- Dorris, George P., St. Louis, Mo. Combustion engine. 1,720,513; July 9.
- D'Orsaneo, Natalino, Philadelphia, Pa. Antiaircraft projectile. 1,737,833; Dec. 3.
- Dorsey, Albert, Martins Ferry, Ohio. Attaching device for miners' lamps. 1,725,182; Aug. 20.
- Dorsey, Arthur, New York, N. Y. Illuminating indicia and the like. 1,698,839; Jan. 15.
- Dorsey, Arthur, New York, N. Y. Adjusting mechanism for radio apparatus and the like. 1,702,934; Feb. 19.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Magnetic speedometer. 1,702,725; Feb. 19.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Speedometer. 1,702,726; Feb. 19.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Electromagnetic horn. 1,729,284; Sept. 24.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Shock absorber. 1,729,285; Sept. 24.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Horn bracket. 1,729,419; Sept. 24.
- Dorsey, Georgie, San Francisco, Calif. Hot-water-bag cover. 1,711,876; May 7.
- Dorsey, Herbert G., Gloucester, Mass., assignor to Submarine Signal Company, Portland, Me. Filter. 1,730,411; Oct. 8.
- Dorsey, Farmer, Wichita, Kans., and R. D. McIntosh, River Forest, assignors to The Imperial Brass Manufacturing Company, Chicago, Ill. Pressure-release valve. 1,698,155; Jan. 18.
- Dorsey, Farmer, Wichita, Kans., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Double-acting check valve for compressed gases. 1,698,156; Jan. 8.
- Dorsey, Farmer, Wichita, Kans., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Lubricator. 1,698,157; Jan. 8.
- Dorsey, Farmer, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Feeding apparatus for chemicals. 1,739,951; Dec. 17.
- Dorsey, Thomas V. S., Lockport, La., assignor of fifty-one per cent to L. E. Daviet, Nut lock. 1,733,529; Oct. 29.
- Dort, Robert G. (See Dreyfus, C., Dort, and Platt.)
- Dorval, Joseph H., Belfield, N. Dak. Leather-working tool. 1,697,971; Jan. 8.
- Dorward, Raymond, Indianapolis, Ind., assignor to Insley Manufacturing Company. Excavator. 1,703,063; Feb. 19.
- Dorwin, Clifford W., and C. Taggart, Oakland Calif. Saddle-retaining stand. 1,710,812; Apr. 30.
- Dorzab, Henry A., assignor of one-half to J. Bowlin, California, Mo. Eyeshade. Des. 78,155; Apr. 2.
- Doser, Frank H., et al. (See Lathrop, Asa, assignor.)
- Doskow, Samuel, New York, N. Y. Toothbrush. 1,702,042; Feb. 12.
- Dossey, William H., Dallas, Tex. Combination bread board and cover. 1,739,444; Dec. 10.
- Dossmann, Arturo, Genoa, Italy. Treatment of scrap iron. 1,723,411; Aug. 6.
- Doster, Jonathan F., Bowdill, assignor, by mesne assignments, to H. H. Miller, Canton, Ohio. Rebound check. 1,718,545; June 25.
- Doswald, Adolf, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Synchronous-induction motor apparatus and operation. 1,723,333; Aug. 6.
- Dotson, Kent B., Los Angeles, Calif. Temporary broken-spring support for motor vehicles. 1,736,113; Nov. 19.
- Dott, Lutalis P., and V. H. Ferries, Wilton, Wis. Stone picker. 1,723,608; Aug. 6.
- Dotterweich, Andrew J., Pittsburgh, Pa. Treatment of water. 1,721,105; July 16.
- Doty, Alfred S. (See Richey, Leon T., assignor.)
- Doty, Charles E., Yonkers, and M. Bimonte, New York City, N. Y. Railway switch. 1,729,034; Sept. 24.
- Doty, Wade, assignor to International Air Brake Company, Detroit, Mich. Fluid-braking control valve. 1,727,970; Sept. 10.
- Doty, William W., Great Kills, N. J., assignor to New Century Spring Corporation, New York, N. Y. Cushion spring. 1,737,112; Nov. 26.
- Double A Alarm Company. (See Vadnais, Alexander H., assignor.)
- Doubleday, Felix D., New York, N. Y. Cigarette and cigar lighter. 1,713,595; May 21.
- Double-Hung Rolling Screen & Shade Co. (See Warnick, Philip, assignor.)
- Doucett, Harry D., and G. S. Gardner, San Diego, Calif. Lath clip. 1,711,928; May 7.
- Doucett, Lillian M., San Diego, Calif. Safety device for aeroplanes. 1,715,742; June 4.
- Dougan, Archie F., Cochran, Oreg. Spring undercutter. 1,737,708; Dec. 3.
- Dougan, Charles E. (See Brassert, H. A., Dougan, and von Maltitz.)
- Dougherty, Augustus P., Warren, assignor to Ohio Galvanizing & Manufacturing Company, Niles, Ohio. Ice-making apparatus. 1,708,085; Apr. 9.
- Dougherty, Daniel J., Snohomish, assignor of one-third to J. E. Gregorson, Seattle, Wash. Nailing machine for strip flooring. 1,716,579; June 11.
- Dougherty, Eugene R., Canton, assignor to Central Alloy Steel Corporation, Massillon, Ohio. Band-saw guide. 1,719,927; July 9.
- Dougherty, George, assignor to Economy Glass Company, Morgantown, W. Va. Goblet or similar article. Des. 77,942; Mar. 12.
- Dougherty, George, assignor to Economy Glass Company, Morgantown, W. Va. Goblet or similar article. Des. 77,943; Mar. 12.
- Dougherty, George, assignor to Economy Glass Company, Morgantown, W. Va. Goblet. Des. 77,944; Mar. 12.
- Dougherty, James L., Seattle, Wash. Cutting logs. 1,732,743; Oct. 22.
- Dougherty, Michael F., St. Paul, Minn., assignor to Monolithic Form Device Company. Form for use in constructing monolithic sewers and the like. 1,722,038; July 23.
- Dougherty, Robert S. A., Bethlehem, Pa., and J. A. McGrew, Albany, N. Y., assignors to Bethlehem Steel Company. Auxiliary-locomotive propulsion unit. 1,710,354; Apr. 23.
- Dougherty, Robert S. A., and N. E. Salsich, Bethlehem, Pa., assignors to Bethlehem Steel Company. Anticreep device. 1,723,470; Aug. 6.
- Dougherty, Wilber W., Mobile, assignor of one-half to W. W. Harwell, Chunchula, Ala. Tone-modifying attachment for phonographs. 1,737,788; Dec. 3.
- Doughnut Machine Corporation. (See Bergner, John C., assignor.)
- Doughnut Machine Corporation. (See Light, Leslie F., assignor.)
- Doughs Ship Crane Company. (See Daughs, Charles W., assignor.)
- Doughten, John J., Millerstown, Pa. Waterproofing leather for packing and other purposes. 1,735,564; Nov. 12.
- Doughty, George B., New York, assignor to The Cooke & Cobb Company, Brooklyn, N. Y. Deposit-slip file. 1,698,841; Jan. 15.
- Doughty, Glenn A., and H. A. Johnston, Anaheim, Calif. Fluid-controlling system. 1,739,787; Dec. 17.
- Doughty, Howard W., Amherst, Mass. Fire extinguisher. 1,698,840; Jan. 15.
- Doughty, Howard W., Amherst, Mass. Fire extinguisher. 1,735,531; Nov. 12.
- Doughty, Howard W., Amherst, Mass. Sprinkler head. 1,736,255; Nov. 19.
- Doughty, Howard W., Amherst, Mass. Sprinkler head. 1,736,256; Nov. 19.
- Doughty, Leon A., Glenside, Pa. Handle construction for storage-battery boxes. 1,700,123; Jan. 29.
- Doughty, William B., assignor to James Vernor Company, Detroit, Mich. Dispensing apparatus. 1,697,230; Jan. 1.
- Douglas Aircraft Company. (See Kindelberger, James H., assignor.)
- Douglas, David W., Brunswick, Me. Swimming shoe. 1,729,477; Sept. 24.
- Douglas, Fredric E., assignor to Draper Corporation, Hopdale, Mass. Cop skewer for replenishing loom shuttles. 1,715,002; May 28.



- Douglas, Fredric E., assignor to Draper Corporation, Hopedale, Mass. Making cop skewers. 1,720,412; July 9.
- Douglas, G. R., et al. (See Douglas, Paisley S., assignor.)
- Douglas, George R., Detroit, Mich. Diamond dial. 1,729,824; Oct. 1.
- Douglas, H. A. (See Freeman, Hadley F., assignor.)
- Douglas, Harry A. (See Cragg, George L., assignor.)
- Douglas, Harry A. (See Schafer, John V., assignor.)
- Douglas, Harry A., Bronson, Mich. Electric switch. 1,700,031; Jan. 22.
- Douglas, Harry A., Bronson, Mich. Contacts for switches for lighting systems for automobile vehicles. 1,700,310; Jan. 29.
- Douglas, Harry A., Bronson, Mich. Control means. 1,708,263; Apr. 9.
- Douglas, Harry A., Bronson, Mich. Control means. 1,708,360; Apr. 9.
- Douglas, Harry A., Bronson, Mich. Control means. 1,708,361; Apr. 9.
- Douglas, Harry A., Bronson, Mich. Electric switching mechanism. 1,710,411; Apr. 23.
- Douglas, Harry A., Bronson, Mich. Electric switch. 1,711,836; May 7.
- Douglas, Harry A., Bronson, Mich. Electric switch. 1,717,918; June 18.
- Douglas, Harry A., Bronson, Mich. Electric switch. 1,723,683; Aug. 6.
- Douglas, Harry A., Bronson, Mich. Electric lamp. 1,733,368; Oct. 29.
- Douglas, Harry A., Bronson, Mich. Circuit-continuing device. 1,734,565; Nov. 5.
- Douglas, Harry A., Bronson, Mich. Handle and its mounting. 1,736,849; Nov. 26.
- Douglas, Harry A., Bronson, Mich. Electric switch. 1,739,788; Dec. 17.
- Douglas, James R., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Liquid-meter device for tank trucks. 1,707,657; Apr. 2.
- Douglas, Lindsey R., Mount Sterling, Ky. Copyholder for typewriters. 1,700,629; Jan. 29.
- Douglas, Lloyd, Menlo Park, Calif. Pyrophoric lighter. 1,718,038; June 18.
- Douglas, Paisley S., Dallas County, assignor of one-half to W. E. Robinson and one-fourth to G. R. Douglas, Dallas, Tex. Valve-locking device. 1,714,856; May 28.
- Douglas, Samuel W., Lurgan, J. Gregg, and M. Silcock, Belfast, Ireland. Self-twilling jacquard machine for looms. 1,716,263; June 4.
- Douglas, William D., Asheville, N. C. Graphophone. 1,715,412; June 4.
- Douglas, William H., and R. Chilton, Keyport, N. J., assignors, by mesne assignments, to Healey-Aeromarine Bus Company, Inc. Vehicle structure. 1,697,386; Jan. 1.
- Douglass, Daniel. (See Hammer, Ferdinand A., assignor.)
- Douglass, Leon F., Menlo Park, Calif. Sound-reproducing needle. 1,718,035; June 18.
- Douglass, Leon F., Menlo Park, Calif. Freight and passenger carrying vehicle. 1,718,036; June 18.
- Douglass, Leon F., Menlo Park, Calif. Method and apparatus for producing novel effects in photography. 1,718,037; June 18.
- Douglass, Leon F., Menlo Park, Calif. Pyrophoric lighter. 1,725,901; Aug. 27.
- Douglass, Napoleon B., Berkeley, Calif. Reversible door mounting. 1,732,555; Oct. 22.
- Douglass, Owen T., Kalaheo, Hawaii. Canning apparatus. 1,736,287; Nov. 19.
- Douglass, Roy D. (See Harter, Marion H., assignor.)
- Douglass, William A. (See Calcott, W. S., Douglass, and Hayden.)
- Doull, George M., Long Beach, Calif. Scaling and drilling tool. 1,727,816; Sept. 10.
- Douthitt, Fletcher, Detroit, Mich. Vacuum copyholder. 1,705,005; Mar. 12.
- Dovan Chemical Corporation. (See Weiss, Morris L., assignor.)
- Dove, Frank F., et al. (See Archibald, John B., assignor.)
- Dove, George H. (See Pochin, Fank H. and H. S., and Dove.)
- Dovel, James P., Birmingham, Ala. Blast furnace. 1,703,517; Feb. 26.
- Dovel, James P., Birmingham, Ala. Blast furnace. 1,703,518; Feb. 26.
- Dovel, James P., Birmingham, Ala. Protection of blast-furnace jackets. 1,703,519; Feb. 26.
- Dovel, James P., Birmingham, Ala. Apparatus for the protection of blast-furnace jackets. 1,703,520; Feb. 26.
- Dover, George W., assignor to Dovercraft Company, Inc., Providence, R. I. Curtain support. 1,704,180; Mar. 5.
- Dover, Horace W., Northampton, England. Handwheel. 1,713,085; May 14.
- Dovercraft Company. (See Dover, George W., assignor.)
- Doverspike, Frank, Chicago, Ill. Manifold attachment for typewriters. 1,724,698; Aug. 13.
- Dow, Alexander, assignor to Dow Transmission Corporation, New York, N. Y. Brake mechanism. 1,727,757; Sept. 10.
- Dow, Allen H., Wharton, Pa. Painting and decorating tool. 1,713,750; May 21.
- Dow Chemical Company, The. (See Best, N. A., and Hoy, assignors.)
- Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
- Dow Chemical Company, The. (See Britton, J. W., and Williams, assignors.)
- Dow Chemical Company, The. (See Burdick, Edward C., assignor.)
- Dow Chemical Company, The. (See Collings, W. R., and Shafer, assignors.)
- Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
- Dow Chemical Company, The. (See Gann, John A., assignor.)
- Dow Chemical Company, The. (See Gann, J. A., and Hoy, assignors.)
- Dow Chemical Company, The. (See Grether, Ernst F., assignor.)
- Dow Chemical Company, The. (See Griswold, Thomas, jr., assignor.)
- Dow Chemical Company, The. (See Hale, W. J., and Britton, assignors.)
- Dow Chemical Company, The. (See Hale, W. J., and Cheney, assignors.)
- Dow Chemical Company, The. (See Heath, Sheldon B., assignor.)
- Dow Chemical Company, The. (See Hoy, John E., assignor.)
- Dow Chemical Company, The. (See Strosacker, C. J., and Schwegler, assignors.)
- Dow Chemical Company, The. (See Veazey, William R., assignor.)
- Dow Chemical Company, The. (See White, Arthur C., assignor.)
- Dow Chemical Company, The. (See Williams, W. H., and Britton, assignors.)
- Dow Chemical Company, The. (See Zimmerman, Arthur C., assignor.)
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Electrical apparatus. 1,697,418; Jan. 1.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Stabilizing device and method. 1,731,236; Oct. 15.
- Dow, John G., and T. P. Galvin, assignors of one-third to J. C. Burdick, San Francisco, Calif. Egg separator. 1,729,067; Sept. 24.
- Dow, Louis F., Company. (See Franzen, William T., assignor.)
- Dow Transmission Corporation. (See Dow, Alexander, assignor.)
- Dow, William J., Washington, D. C. Variable condenser. 1,719,600; July 2.
- Dowd, Edmund B., Chicago, Ill. Temporary support. 1,702,251; Feb. 19.
- Dowd, James F., assignor of one-half to F. C. Richards, Newport, R. I. Brush. 1,723,684; Aug. 6.
- Dowd-Rogers Co. Inc., The. (See Schenker, Francis E., assignor.)
- Dowd, Thomas J., Bronx, N. Y. Cinder arrester. 1,704,592; Mar. 5.
- Dowd, Thomas J., Bronx, N. Y. Necktie holder. 1,704,659; Mar. 5.
- Dowd, Wylls E., jr., assignor to Power Specialty Company, New York, N. Y. Regenerative air heater. 1,697,591; Jan. 1.
- Dowell, Chester M., Huntingburg, Ind., assignor to H. R. Lewis, Detroit, Mich. Controlling the cooling-capacity of radiators. 1,728,176; Sept. 17.
- Dower, Emmons M., assignor to The Ives Corporation, Bridgeport, Conn. Toy circus wagon. Des. 77,945; Mar. 12.
- Dowers, Lee O., assignor of one-half to P. E. Brown, Kearney, Nebr. Amusement apparatus. 1,726,262; Aug. 27.
- Dowliatt, Adolph C., Westville, Ill. Terminal post for electric heating elements. 1,733,530; Oct. 29.
- Dowlingtown Manufacturing Company. (See Kilberry, George D., assignor.)
- Dowling, Charles W., Newark, Ohio. Car coupler. 1,698,991; Jan. 15.
- Dowling, Francis J., New York, N. Y. Tweezers. 1,714,593; May 28.
- Dowling, Francis J., assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Expandable bolt lock. 1,714,857; May 28.
- Dowling, Jesse T., et al., trustees. (See Mas, George N., assignor.)
- Dowling, Martin J., assignor to Atlantic Stamping Company, Rochester, N. Y. Milk strainer. 1,703,266; Feb. 26.
- Dowling, Philip H., assignor to The Union Switch & Signal Company, Swissvale Pa. Electrical translating apparatus. 1,739,579; Dec. 17.
- Down, Austin H., assignor to Eclipse Air Brush Company, Inc., Newark, N. J. Tank and agitating construction for paint-spraying apparatus. 1,733,724; Oct. 29.
- Down, John, and J. A. Ritter, Walnut Creek, Calif. Closure for railroad cars. 1,710,046; Apr. 23.
- Down, Sidney G., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,707,258; Apr. 2.
- Down, Sidney G., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Door and brake control device. 1,710,047; Apr. 23.
- Down, Sidney G., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,723,141; Aug. 6.



- Down, Sidney G., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Regenerative brake control. 1,723,142; Aug. 6.
- Down, Sidney G., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake device. 1,733,186; Oct. 29.
- Downard, James S., Dallas, Tex. Asphalt paving composition. 1,727,231; Sept. 3.
- Downes, John R., Middlesex, assignor of one-half to S. F. Miller, Ocean County, N. J. Sludge-digesting apparatus. 1,717,100; June 11.
- Downes, John R., Middlesex, N. J., assignor to Pacific Flush-Tank Company, New York, N. Y. Method of and apparatus for purifying sewage. 1,738,362; Dec. 3.
- Downey, Clement L., Cincinnati, Ohio. Stacking stem for coin-counting machines. 1,710,086; Apr. 23.
- Downey, Clement L., Cincinnati, Ohio. Coin wrapper. 1,717,669; June 18.
- Downey, Clement L., Cincinnati, Ohio. Machine for crimping coin tubes. 1,721,377; July 16.
- Downey, Walter L., Richmond, Va. Cushion side bearing. 1,728,336; Sept. 17.
- Downham, Harold. (See Downham, Sidney J. and H.)
- Downham, Sidney J. and H., Holborn, England. Bath seat. 1,740,444; Dec. 24.
- Downie, Harvey H., Seattle, Wash. Combination aquarium and fernery stand. Des. 78,013; Mar. 19.
- Downie, Robert R., Beaver Falls Borough, Pa., assignor to Keystone Driller Company. Ditcher-scoop assembly. 1,709,466; Apr. 16.
- Downie, Robert R., Beaver Falls Borough, Pa., assignor to Keystone Driller Company. Excavating scoop. 1,716,432; June 11.
- Downie Robert R., assignor to Keystone Driller Company, Beaver Falls, Pa. Boom for excavating machines. 1,739,952; Dec. 17.
- Downing, Barry I., Pittsburg, Calif. Lantern. 1,699,099; Jan. 15.
- Downing, Edwin J., B. R. Sheets, and L. E. Croft, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Anchor for drill-steel guides. 1,719,003; July 2.
- Downing, Edwin J., B. R. Sheets, and L. E. Croft, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Bushing holder for drill-steel guides. 1,728,337; Sept. 17.
- Downing, Fred, Cambridge, Md. Automobile door awning. 1,702,818; Feb. 19.
- Downing, John B. (See Slade, H. E., and Downing.)
- Downing, John B., Orange, assignor to Beaver Machine & Tool Co., Inc., Newark, N. J. Appliance plug. 1,700,831; Feb. 5.
- Downing, Omer L., South Norwood, Ohio. Concrete insert. 1,704,593; Mar. 5.
- Downs, Austin H., Newark, N. J. Device for spraying paints, lacquers, or other liquids. 1,700,875; Mar. 26.
- Downs, Charles B. (See Johnston, William G., assignor.)
- Downs, Charles R. (See Weiss, J. M., and Downs.)
- Downs, Charles R., New Haven, Conn., assignor to Weiss and Downs, Inc., New York, N. Y. Cracking petroleum hydrocarbons. 1,708,303; Apr. 9.
- Downs, Charles S., Elmhurst, N. Y. Bathroom-shower-curtain holder. 1,726,948; Sept. 3.
- Downs, Herbert G., Warren, Ohio. Photographer's retouching easel. 1,725,856; Aug. 27.
- Downs, Mary G., administratrix. (See Downs, William F., assignor.)
- Downs, Robert W. (See Owen, A. E., and Downs.)
- Downs, William F., deceased, Chatham, N. J.; M. G. Downs, administratrix. Manufacture of anhydrous metallic chlorides. 1,699,229; Jan. 15.
- Downs, William F., deceased, Chatham, N. J.; M. G. Downs, administratrix. Apparatus for the treatment of mineral oils. 1,716,372; June 11.
- Dowst, Theodore S., Chicago, Ill. Wheeled toy. 1,728,725; Sept. 17.
- Dox, Arthur W., Windsor, Ontario, Canada, assignor to Parke, Davis & Company, Detroit, Mich. Normal amyl chloromalonamide. 1,713,822; May 21.
- Doxford, William, & Sons, Limited. (See Keller, Karl O., assignor.)
- Doyle, Edgar D. (See Sharp, C. H., Kinsley, and Doyle.)
- Doyle, Frances G., New York, N. Y. Bedclothes support and arch protector. 1,741,361; Dec. 31.
- Doyle, Harry. (See Taylor, J. C., and Doyle.)
- Doyle, James E., jr., Norwalk, Ohio. Advertising sign. 1,715,061; May 28.
- Doyle, James S. (See Hedley, F., and Doyle.)
- Doyle, Richard H., San Francisco, Calif. Bracket. 1,724,829; Aug. 13.
- Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for pulverizing materials. 1,715,123; May 28.
- Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for pulverizing materials. 1,723,726; Aug. 6.
- Doyon, Louis P., New Westminster, British Columbia, Canada. Propulsion of vehicles. 1,731,845; Oct. 15.
- Dozier, Calvin, Richmond, Ky. Shock absorber. 1,710,451; Apr. 23.
- Dozier, Lewis D., St. Louis County, J. W. Green, St. Louis, and F. J. Grindler, Pine Lawn, assignors to Pawnee Wood Heel Co., St. Louis, Mo. Making wood heels for shoes. 1,710,923; Apr. 30.
- Draeger, Lloyd H., assignor to Chain Belt Company, Milwaukee, Wis. Conveyor system. 1,731,095; Oct. 8.
- Draft-Rater Corporation. (See Johnson, J. A., and Benson, assignors.)
- Dragelin, Joel G., New York, N. Y. Automobile washer. 1,715,907; June 4.
- Dräger, Alexander B. (See Schroder, Hans W. C., assignor.)
- Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Device for feeding additional oxygen in freely-portable respiratory apparatus. 1,699,101; Jan. 15.
- Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Gas protective mask. 1,702,400; Feb. 19.
- Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Harness for respirating appliances such as masks, respirators, and the like. 1,706,601; Mar. 26.
- Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Respiratory headgear. 1,706,602; Mar. 26.
- Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Protective mask for use in noxious gases. 1,710,813; Apr. 30.
- Dräger, Alexander B., deceased; E. Dräger, née Stange, executrix, assignor to H. O. Dräger, Lubeck, Germany. Gas mask. 1,725,063; Aug. 20.
- Dräger, Alexander B., deceased; E. Dräger, née Stange, executrix, assignor to H. O. Dräger, Lubeck, Germany. Apparatus for administering gas. 1,737,575; Dec. 3.
- Dräger, Elfriede, administratrix. (See Schroder, Hans W. C.)
- Dräger, Elfriede (née Stange) executrix. (See Dräger, Alexander B.)
- Draeger, Gustave J., Racine, Wis. Floating tool holder. 1,721,378; July 16.
- Dräger, Heinrich O. (See Dräger, Alexander B., assignor.)
- Dräger, Heinrich O. (See Schröder, Hans W. C., assignor.)
- Drägerwerk, Heinrich, & Bernh. Dräger. (See Stelzner, Hermann, assignor.)
- Dragon, Hippolyte, San Francisco, Calif. Dough-kneading machine. 1,714,004; May 21.
- Drahonovsky, James, Milwaukee, Wis. Timer for internal-combustion engines. 1,721,008; July 16.
- Drake, A. W., Manufacturing Company. (See Ravert, William I., assignor.)
- Drake, Alden M., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Guideway for machine tools. 1,721,009; July 16.
- Drake, Alden M., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Grinding-wheel slide and adjusting mechanism therefor. 1,734,080; Nov. 5.
- Drake, Andrew O., Denver, Colo. Combined sifting and mixing device. 1,707,078; Mar. 26.
- Drake Avery Company. (See Hinrich, Robert M., assignor.)
- Drake, Charles R., assignor to The Line-A-Time Mfg. Co. Inc., Rochester, N. Y. Copyholder. 1,730,358; Oct. 8.
- Drake, Charles R., and J. Heberling, assignors to The Line-A-Time Mfg. Co. Inc., Rochester, N. Y. Copyholder. 1,707,602; Apr. 2.
- Drake, Charles S. (See Drake, Ronald S., and C. S.)
- Drake, Donald S. and C. S., Placerville, Calif. Insulator. 1,713,426; May 14.
- Drake, Harcourt C., Hempstead, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Adapter. 1,700,832; Feb. 5.
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheetglass apparatus. 1,698,492; Jan. 8.
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Laminated glass and producing the same. 1,701,147; Feb. 5.
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-surfacing apparatus. 1,714,301; May 21.
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Glass-cutting apparatus. 1,720,546; July 9.
- Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-cutting apparatus. 1,724,261; Aug. 13.
- Drake, John L., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Sheet-glass-surfacing apparatus. 1,735,565; Nov. 12.
- Drake, La Verne, Lake Stevens, Wash. Valve. 1,740,811; Dec. 24.
- Drake, Ralph E. (See Rahr, C. E., and Drake.)
- Drake, Robert Z., Omaha, Nebr. Seasoning process for lumber. 1,718,221; June 25.
- Drake, Robert Z., Omaha, Nebr. Grab. 1,730,128; Oct. 1.
- Drake, William, and D. Szantay, assignors to Sinko Tool and Manufacturing Company, Chicago, Ill. Automatic cigar lighter. 1,699,655; Jan. 22.
- Orall, Albert. (See Pixley, John H., assignor.)
- Dramis, Cosmo, Boston, Mass. Form for shaping ties. 1,704,081; Mar. 5.
- Drane, Hiram A., et al. (See Beaulieu, Lester F., assignor.)
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Conveying and loading mechanism for barrels. 1,700,696; Jan. 29.



- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Coating cylindrical articles. 1,700,697; Jan. 29.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Drying cylindrical articles. 1,705,084; Mar. 12.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Protectively coating containers. 1,718,039; June 18.
- Draper, Clare H., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,719,262; July 2.
- Draper, Clare H., assignor by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom and method of weaving. 1,722,959; July 30.
- Draper, Clare H., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Loom. 1,723,334; Aug. 6.
- Draper, Clare H., assignor to Draper Corporation, Hopedale, Mass. Visual stop indicator. 1,729,598; Sept. 24.
- Draper Corporation. (See Almond, John, assignor.)
- Draper Corporation. (See Beardsell, Arthur W., assignor.)
- Draper Corporation. (See Boyd, Samuel, assignor.)
- Draper Corporation. (See Brown, Carl D., assignor.)
- Draper Corporation. (See Burnham, Edward C., assignor.)
- Draper Corporation. (See Davis, Harry A., assignor.)
- Draper Corporation. (See Douglas, Fredric E., assignor.)
- Draper Corporation. (See Draper, Clare H., assignor.)
- Draper Corporation. (See Ewen, Robert G., assignor.)
- Draper Corporation. (See Harmon, Julian C., assignor.)
- Draper Corporation. (See Kazamias, Michael T., assignor.)
- Draper Corporation. (See Keegan, Patrick, assignor.)
- Draper Corporation. (See Leonard, Harry A., assignor.)
- Draper Corporation. (See Linderson, Alfred, assignor.)
- Draper Corporation. (See Marsh, Harold, assignor.)
- Draper Corporation. (See Nix, William H., assignor.)
- Draper Corporation. (See Noyes, Ira W., assignor.)
- Draper Corporation. (See Skedgell, John A., assignor.)
- Draper Corporation. (See Stancill, Robert B., assignor.)
- Draper Corporation. (See Stimpson, Wallace I., assignor.)
- Draper Corporation. (See Tebo, William A., assignor.)
- Draper Corporation. (See Tift, Emerson B., assignor.)
- Draper Corporation. (See Trevett, Earl H., assignor.)
- Draper Corporation. (See Vickers, John C., assignor.)
- Draper Corporation. (See Warren, Charles H., assignor.)
- Draper, Isaac S., Sullivan, Ind. Headlight ant glare device. 1,734,081; Nov. 5.
- Draper, John B., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,700,473; Jan. 29.
- Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
- Draullette, Edmond, Paris, France. Rubber composition or compound for the manufacture of paving blocks, slabs, and the like. 1,728,990; Sept. 24.
- Draullette, Edmond, Paris, France. Paving block and slab made of rubber compound. 1,728,991; Sept. 24.
- Draver, Emil R., Richmond, Ind. Window-sash holder. 1,702,819; Feb. 19.
- Dravo Contracting Company. (See Crist, Robert W., assignor.)
- Dravo Contracting Company. (See Dravo, Francis R., assignor.)
- Dravo Contracting Company, The. (See Miller, James S., assignor.)
- Dravo-Doyle Company. (See Buhl, William, assignor.)
- Dravo, Francis R., assignor to Dravo Contracting Company, Pittsburgh, Pa. Paddle-wheel-boat drive. 1,707,629; Apr. 2.
- Dravo, Francis R., Edgeworth, assignor to The Dravo Contracting Company, Pittsburgh, Pa. Gravel washer. 1,735,738; Nov. 12.
- Dravo, Francis R., Edgeworth, Pa., assignor to The Dravo Contracting Company, Charleroi, Pa. Washing gravel. 1,737,004; Nov. 26.
- Dream Products Corporation. (See Mayer, Emil, assignor.)
- Drechsler, Arthur. (See Burnham, L. H., and Drechsler.)
- Drechsler, Arthur. (See Glidden, Alfred A.)
- Drechsler, Arthur. (See Knowland, T. M., and Drechsler.)
- Drechsler, Arthur, assignor to Hood Rubber Company, Watertown, Mass. Lasting jack. 1,722,695; July 30.
- Dreckmann, Lucy, Swanville, Minn. Ironing-board hinge. 1,737,494; Nov. 26.
- Drees, Bernard H., Cincinnati, Ohio. Tool holder and tool. 1,700,610; Jan. 29.
- Drees, Erwin E., Euclid Village, and W. Lavina, University Heights, assignors to The Lincoln Electric Company, Cleveland, Ohio. End bracket for dynamo-electric machines. 1,725,784; Aug. 27.
- Dreghorn, Herbert, Rugby, England, assignor to General Electric Company. Commutator dynamo-electric machine. 1,739,445; Dec. 10.
- Dreher, Carl M., Nora Springs, Iowa. Scoop. 1,728,858; Sept. 17.
- Dreher, Julius H., New York, N. Y. Motion-picture screen. 1,714,550; May 28.
- Drehmann, Hugo, Wandsbek, Germany. Device for roasting, baking, and steaming. 1,723,413; Aug. 6.
- Drehmann, Oscar A., assignor to Edwards & Deutsch Lithographing Company, Chicago, Ill. Container display holder. 1,711,877; May 7.
- Dreibach, Charles A., New Haven, Conn. Sand-blast device. 1,727,027; Sept. 3.
- Dreibach, Charles A., New Haven, Conn. Piston mechanism for engines and pumps. 1,736,822; Nov. 26.
- Dreibach, John W., Golconda, Ill. Air separator. 1,698,361; Jan. 8.
- Drekolias, Adam, Staten Island, N. Y., assignor to Drekolias-Avythistos Shipbuilding Company. Preventing the sinking of ships. 1,701,998; Feb. 12.
- Drekolias-Avythistos Shipbuilding Company. (See Drekolias, Adam, assignor.)
- Drem Products Corporation. (See Mayer, Emil, assignor.)
- Dremel, Albert J., Racine, Wis. Electric hair clipper. 1,701,148; Feb. 5.
- Dremel, Albert J., Racine, Wis. Lawn mower. 1,703,521; Feb. 26.
- Dremel, Albert J., Racine, Wis. Clipper blade. 1,729,332; Sept. 24.
- Drennen, Everett. (See Stockly, W. D., and Drennen.)
- Drenning, Percy R., assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Door-securing device. 1,697,557; Jan. 1.
- Drenning, Percy R., assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Side frame and journal-box mounting. 1,701,558; Feb. 12.
- Drenning, Percy R., Baltimore, Md., assignor, by mesne assignments, to The Symington Company. Journal box. 1,717,551; June 18.
- Drenning, Percy R., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Auxiliary spring mechanism for trucks. 1,727,867; Sept. 10.
- Drenning, Percy R., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Door-securing mechanism. 1,728,530; Sept. 17.
- Drenning, Percy R., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Bolster with self-equalizing side bearings. 1,739,389; Dec. 10.
- Drennon, William M., Anaheim, Calif. Sander and buffer. 1,741,145; Dec. 31.
- Drescher, Martin, Norwood, Ohio. Plant-marking stake. 1,710,866; Apr. 30.
- Dresses Machine Tool Co., The. (See De Roo, William C., assignor.)
- Dresses Machine Tool Co., The. (See De Roo, W. C., and Larsh, assignors.)
- Dressel, Karl, Erfurt, Germany. Facilitating the production of footwear by factory methods. 1,731,738; Oct. 15.
- Dressel Railway Lamp & Signal Company. (See Keating, Bernard J., assignor.)
- Dresser, George E., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive stone. 1,707,472; Apr. 2.
- Dresser, Robert A., assignor to Petroleum Engineering Corporation, Bradford, Pa. Pumping power unit for oil wells. 1,720,514; July 9.
- Dressler, Charles E. See Tvestmann, Rudolf, assignor.)
- Dressler, Charles E., New York, N. Y. Blood-pressure indicator. 1,705,966; Mar. 19.
- Dressler, Philip D'H., Cleveland, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Method of and apparatus for gasification. 1,698,493; Jan. 8.
- Dreusike, Otto B., assignor to United States Metal Products Co., San Francisco, Calif. Swing-sash adjuster. 1,715,494; June 4.
- Dreusike, William, Oakland, assignor to United States Metal Products Co., San Francisco Calif. Hinged-sash mounting. 1,701,748; Feb. 12.
- Dreux, Alexander H., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada. Box machine. 1,715,354; June 4.
- Dreux, Alexander H., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada. Paper box. 1,735,853; Nov. 19.
- Dreves, Henry E., Cleveland, Ohio. Key mechanism. 1,727,868; Sept. 10.
- Drew, George W., Oakland, Calif. Fire-door-controlling mechanism. 1,739,632; Dec. 17.
- Drew, Herbert H., assignor to Watertown Table Slide Co., Watertown, Wis. Extension-table slide. 1,720,320; July 9.
- Drew, Wilbert L., Covina, Calif. Face pack. 1,709,936; Apr. 23.
- Drew, William F., Los Angeles, Calif. Garbage or refuse incinerator. 1,714,005; May 21.
- Drew, Willis S., Lankershim, Calif. Illuminated color changer for spot and flood lights. 1,729,163; Sept. 24.
- Dreys, Rudolph A., Iowa City, Iowa. Device for twisting wire in concrete-form work. 1,736,781; Nov. 26.
- Drexler, Franz, Berlin-Friedenau, Germany, assignor, by mesne assignments, to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Gyroscopic device. 1,706,201; Mar. 19.
- Drey, Simpson & Company. (See Byrd, Hugh L., assignor.)
- Dreyer, Frank, and E. J. Lamy, deceased, Elizabeth, N. J.; J. T. Hague, executor of E. J. Lamy. Cover for sewing-machine pulleys. 1,722,078; July 23.
- Dreyer, Hans, Munich-Harlaching, Germany. Indicating at a distance the amplitude of movement in alternative directions. 1,720,036; July 9.
- Dreyer, Otto, Essen-on-the-Ruhr, Germany. Device for protecting electric circuits. 1,703,439; Feb. 26.



- Dreyer, Otto, Essen, Germany. Thermal protective device. 1,711,634; May 7.
- Dreyfus, Camille, Basel, Switzerland, assignor to Celanese Corporation of America. Manufacture of knitted fabrics and articles. 1,719,173; July 2.
- Dreyfus, Camille, R. G. Dort, New York, N. Y., and H. Platt, Cumberland, Md., assignors to Celanese Corporation of America. Treating vegetable fibers in presence of organic derivatives of cellulose. 1,725,857; Aug. 27.
- Dreyfus, Camille, New York, N. Y., and H. Platt, Cumberland, Md., assignors to Celanese Corporation of America. Weighting fibers of cellulose derivatives. 1,731,298; Oct. 15.
- Dreyfus, Camille, New York, N. Y., and G. Schneider, Cumberland, Md., assignors to Celanese Corporation of America. Manufacture of products having a basis of cellulose derivatives. 1,732,330; Oct. 22.
- Dreyfus, Camille, New York, N. Y., and H. Platt, Cumberland, Md., assignors to Celanese Corporation of America. Preserving the luster of organic derivatives of cellulose. 1,740,889; Dec. 24.
- Dreyfus, Henry, London, England. Manufacture of acetic acid. 1,697,109; Jan. 1.
- Dreyfus, Henry, London, England. Production of acetic acid. 1,704,965; Mar. 12.
- Dreyfus, Henry, London, England. Manufacture of fatty acid esters of cellulose of high viscosity. 1,708,787; Apr. 9.
- Dreyfus, Henry, London, England. Treating cellulosic material. 1,711,110; Apr. 30.
- Dreyfus, Henry, London, England. Manufacture of cellulose derivatives. 1,711,111; Apr. 30.
- Dreyfus, Henry, London, England. Treatment of cellulose prior to esterification. 1,731,299; Oct. 15.
- Dreyfus, Henry, London, England. Manufacture of acetic anhydride. 1,735,956; Nov. 19.
- Dreyfus, Henry, London, England. Manufacture of acetic anhydride. 1,735,957; Nov. 19.
- Dreyfus, Henry, London, England. Acetic anhydride. 1,735,958; Nov. 19.
- Dreyfus, Henry, London, England. Manufacture of an aliphatic compound. 1,735,959; Nov. 19.
- Dreyfus, Henry, London, England. Dyeing of materials made of or containing cellulose derivatives. 1,735,960; Nov. 19.
- Dreyfus, Henry, London, England. Dyeing of materials made of or containing cellulose derivatives. 1,735,961; Nov. 19.
- Dreyfus, Henry, London, England. Manufacture of an aliphatic compound. 1,735,962; Nov. 19.
- Dreyfus, Henry, London, England. Dyeing of materials made of or containing cellulose derivatives. 1,735,963; Nov. 19.
- Dreyfus, Henry, London, England. Manufacture of methyl alcohol. 1,738,989; Dec. 10.
- Dreyfus, Henry, London, and C. I. Haney, Spondon, near Derby, England, assignors to Celanese Corporation of America. Cellulosic material and product obtained therefrom. 1,697,907; Jan. 8.
- Dreyfus, Joseph, New York, N. Y. Bathing garment. 1,720,629; July 9.
- Dreyfus, L. A., Company. (See Tyler, W. A., and Stark, assignors.)
- Dreyfus, Ludwig, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Combination of induction machine and commutator machine. 1,709,120; Apr. 16.
- Dreyfus, Ludwig, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Commutating machine connected to induction machines. 1,712,033; May 7.
- Driemeyer, George F., St. Louis, Mo., assignor to Commonwealth Steel Company, Madison County, Ill. Locomotive front-end structure. 1,702,252; Feb. 19.
- Driest, Charles, sr., administrator. (See Driest, Charles, jr.)
- Driest, Charles, jr., deceased, Marlboro; C. Driest, sr., administrator, assignor to F. Tritschler, Highland Park, N. J. Scissors. 1,705,810; Mar. 19.
- Driggs, Louis L., jr., New Rochelle, N. Y. Indicating device for radio receiving apparatus. 1,699,283; Jan. 15.
- Driggs, Louis L., jr., New Rochelle, and H. B. Faber, New York, N. Y. Firearm. 1,712,382; May 7.
- Driggs, Louis L., jr., New Rochelle, and H. B. Faber, New York, N. Y. Fixed ammunition for firearms. 1,712,383; May 7.
- Dri-Kold Manufacturing Company. (See Tressell, Joseph J., assignor.)
- Drimmer, Chriss. (See Jeanes, W. P., and Drimmer.)
- Driscoll, James F., Buffalo, N. Y. Pavement. 1,707,055; Mar. 26.
- Driscoll, Daniel V., assignor to International Engineering Corp., Malden, Mass. Apparatus for applying coating. 1,698,945; Jan. 15.
- Driscoll, Dennis L., Alhambra, Calif. Universal hanger for well-drilling tools. 1,725,902; Aug. 27.
- Driscoll, Dennis L., Alhambra, Calif. Elevator. 1,738,820; Dec. 10.
- Driscoll, Hubert G., St. John's, Newfoundland. Nonfillable bottle. 1,711,878; May 7.
- Drisole Tanning Company, The. (See Patton, Ashley W., assignor.)
- Drissner, Alfred E., Cleveland, Ohio, and C. Q. Garey, Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio. Oil and chip pan. 1,716,919; June 11.
- Dri-Steam Valve Corporation. (See Pascale, Pasquale, assignor.)
- Driver, Charles H., assignor of one-half to J. D. Rowland, Racine, Wis. Joint for abrasive belts. 1,728,673; Sept. 17.
- Driver-Harris Company. (See Saylor, Howard D., assignor.)
- Drohan, John H. (See Roehl, W. J., and Drohan.)
- Drolette, Henry A., S. Herne, and W. J. Harrington, Springfield, Mass. Gear-shift-lever knob. 1,710,452; Apr. 23.
- Droll, Joseph W., Chicago, Ill. Mattress-roll forming and stitching machine. 1,718,639; June 25.
- Drolshammer, Ivar, Drammen, Norway. Valve mechanism for compressed-air brakes. 1,729,931; Oct. 1.
- Drost, John, Reeseville, Wis. Calf-delivery apparatus. 1,732,002; Oct. 15.
- Droszewski, William J., Audubon, N. J. Guard for gas-burner taps. 1,726,979; Sept. 3.
- Drotning, Henry O., New York, N. Y. Sound-conveying means for phonographs. 1,729,333; Sept. 24.
- Drucker, Julius, Cologne-on-the-Rhine, and H. Thiene-mann, Leverkusen, near Cologne-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Activation of carbon. 1,709,611; Apr. 16.
- Druffel, William C., Quincy, Ill. Material-feeding device for grinding machines. 1,726,475; Aug. 27.
- Drufva, John T., Long Meadow, Mass., assignor, by mesne assignments, to H. Hymann, New York, N. Y. Battery hand lamp. 1,707,431; Apr. 2.
- Druhe, George W., Oakland, Calif. Brake lock. 1,711,929; May 7.
- Drullard, Howard R., Salt Lake City, Utah, assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Rock drill. 1,718,734; June 25.
- Drum, George E., and J. H. Skitt, assignors to Smith, Drum & Company, Philadelphia, Pa. Dyeing machine. 1,716,264; June 4.
- Drumm, Elmer E., Manitowoc, Wis., assignor to Aluminum Goods Manufacturing Co. Percolator top. Des. 77,475; Jan. 15.
- Drumm, Elmer E., assignor to Aluminum Goods Mfg. Co., Manitowoc, Wis. Electrically-heated receptacle. 1,711,406; Apr. 30.
- Drumm, Elmer E., assignor to Aluminum Goods Mfg. Co., Manitowoc, Wis. Detachable cooking-utensil handle. 1,732,003; Oct. 15.
- Drumm, Elmer E., assignor to Aluminum Goods Mfg. Co., Manitowoc, Wis. Teakettle handle. 1,732,004; Oct. 15.
- Drumm, Elmer E., assignor to Aluminum Goods Manufacturing Co., Manitowoc, Wis. Closure cap. 1,734,566; Nov. 5.
- Drummond, Robert S., assignor to Gear Grinding Machine Company, Detroit, Mich. Indexing mechanism. 1,720,887; July 16.
- Drummond, William D., Cliffside, N. J. Saw guard. 1,711,490; May 7.
- Drummond, William G., Alhambra, Calif. Weed-extracting tool. 1,708,382; Apr. 9.
- Drummy, Anthony M., Lincoln, Ill. Lubrication indicator for automobiles. 1,718,855; June 25.
- Drusch, Hermann, Morgan, Minn. Rip-sawing machine. 1,697,497; Jan. 1.
- Dry Fresh Process, Inc. (See MacKaye, Harold S., assignor.)
- Dryden Rubber Company, The. (See Gordon, Harry J., assignor.)
- Dryer, Joseph E., and S. C. Karzen, San Diego, Calif. Mattress. 1,708,125; Apr. 9.
- Dryice Equipment Corporation. (See Martin, James W., jr., assignor.)
- Drying System, Inc. (See Thompson, Dell, assignor.)
- Drying Systems, Inc. (See Argabrite, George M., assignor.)
- Drying Systems, Inc. (See Sauvage, Herbert J., assignor.)
- Drysdale, Henry, Wandsworth, London, England. Single-roll wet mill. 1,713,270; May 14.
- Dry Zero Corporation. (See Lindsay, Harvey B., assignor.)
- D'Scott, Guillermo, Habana, Cuba. Vehicle wheel. 1,728,139; Sept. 10.
- Dual Lubricator Co. (See Mulligan, Paul C., assignor.)
- Dual Speedometer Company, The. (See Bellier, M., and Bauer, assignors.)
- Duane, William M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cast-off. 1,713,174; May 14.
- Duban Shade Corporation, The. (See Sabey, H. M., and Aldridge, assignors.)
- Dubberly, Neal, Colorado, Tex. Bulletproof booth. 1,725,755; Aug. 27.
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Converting hydrocarbon oils. 1,703,100; Feb. 26.
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Liquid-level gauge for liquids under high pressure and temperature. 1,715,062; May 28.
- Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating oil. 1,716,306; June 4.
- Dubbs, Carbon P., Wilmette, Ill., assignor to Universal Oil Products Company. Treating hydrocarbons. 1,729,307; Sept. 24.



- Dubbs, Carbon P., Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill. Treating oils. 1,729,308; Sept. 24.
- Dubbs, Emmet C., et al. (See Dean, Vernon M., assignor.)
- Dubé, Joseph E. (See Roberts, Thomas, assignor.)
- Du Belle, Charles S., Williamsport, Pa. Hand-stamp machine. 1,718,686; June 25.
- Du Belle, Charles S., Williamsport, Pa. Hand-stamp machine. 1,724,074; Aug. 13.
- Du Belle, Charles S., Williamsport, Pa. Duplex inking roller. 1,731,739; Oct. 15.
- Duben, Charles W., Manitowoc, Wis. Machine for sanding moldings. 1,718,781; June 25.
- Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
- Dubilier Condenser Corporation. (See Fried, Joseph A., assignor.)
- Dubilier Condenser Corporation. (See Goodman, William H., assignor.)
- Dubilier Condenser Corporation. (See Grier, John A., assignor.)
- Dubilier Condenser Corporation. (See Heintz, Ralph M., assignor.)
- Dubilier Condenser Corporation. (See Horton, C., Van Deventer, and Heiny, assignors.)
- Dubilier Condenser Corporation. (See Houck, Harry W., assignor.)
- Dubilier Condenser Corporation. (See Menut, Leroy E., assignor.)
- Dubilier Condenser Corporation. (See Nyman, Alexander, assignor.)
- Dubilier Condenser Corporation. (See Ornstein, Jacques, assignor.)
- Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)
- Dubilier Condenser Corporation. (See Werner, Leo J., assignor.)
- Dubilier Condenser and Radio Corporation. (See Dubilier, William, assignor.)
- Dubilier, William, New Rochelle, N. Y. Tube reviver. 1,698,625; Jan. 8.
- Dubilier, William, New Rochelle, N. Y. Controlling device. 1,728,045; Sept. 10.
- Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Radio appliance. 1,705,559; Mar. 19.
- Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,710,412; Apr. 23.
- Dubilier, William, New Rochelle, N. Y., assignor to Dubilier Condenser and Radio Corporation. Condenser. 1,722,325; July 30.
- Dubilier, William, New Rochelle, assignor to Radio Patents Corporation, New York, N. Y. Spark plug. 1,729,248; Sept. 24.
- Dubilier, William, New Rochelle, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,731,653; Oct. 15.
- Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Support for resistances. 1,740,160; Dec. 17.
- Dubilier, William, assignor to Dubilier Condenser Corporation, New York, N. Y. Variable condenser. 1,705,242; Mar. 12.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Electrical condenser. 1,713,867; May 21.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Variable condenser. 1,714,662; May 28.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Condenser. 1,718,278; June 25.
- Dubilier, William, assignor to Dubilier Condenser & Radio Corporation, New York, N. Y. Variable condenser. 1,722,326; July 30.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Electrostatic condenser. 1,731,652; Oct. 15.
- Dubilier, William, assignor to Dubilier Condenser Corporation, New York, N. Y. Variable condenser. 1,735,532; Nov. 12.
- Dubilier, William, assignor to Dubilier Condenser Corporation, New York, N. Y. Condenser. 1,737,752; Dec. 3.
- Dubilier, William, assignor to Dubilier Condenser Corporation, New York, N. Y. Adjustable vacuum condenser. 1,738,175; Dec. 3.
- Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Variable condenser. 1,740,159; Dec. 17.
- Dubilier, William, Bronxville, N. Y., assignor to Dubilier Condenser Corporation. Connecting device for radio receiving systems. 1,717,701; June 18.
- Du Bois, Edmond, assignor to "Chemical Works formerly Sandoz," Basel, Switzerland. Increasing the affinity of animal fibers for dyestuffs. 1,698,226; Jan. 8.
- Du Bois, George C., Albany, N. Y. Piston ring. 1,702,294; Feb. 19.
- Dubois, Jean, and B. Plantade, Paris, France. Anchoring device. 1,721,436; July 16.
- Dubois, Lionel, Northfield, Vt. Stone-sawing machine. 1,711,016; Apr. 30.
- Dubois, Raymond, Toulon, France. Electric-arc-lamp cathode with rotary flame and stationary crater. 1,729,263; Sept. 24.
- Du Bose, Milton F., Dallas, Tex. Internal-combustion engine. 1,705,638; Mar. 19.
- Dubray, Pierre, Paris, France. Atomizer. 1,701,032; Feb. 5.
- Dubreuil, Gaston, assignor to Société Anonyme Pour Tous Appareillages Mécaniques, Levallois-Perret, France. Apparatus for measuring and distributing liquids. 1,716,540; June 11.
- Dubusc, Roger, Paris, assignor to Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, Montrouge, France. System for measuring electrical quantities. 1,707,079; Mar. 26.
- Ducas, Charles, New York, N. Y. Centrifugal compressor. 1,697,387; Jan. 1.
- Ducas, Charles, assignor to A. W. Whiteford, D. W. Pye, New York, N. Y., and himself as trustees. Tender tank. 1,715,495; June 4.
- Ducharme, Elmer, Kankakee, Ill. Valve holder. 1,698,396; Jan. 8.
- Du Chene, Joseph R., Detroit, Mich. Device for retrieving golf balls. 1,722,519; July 30.
- Duchesne, Henri H. (See Turner, Elie N., assignor.)
- Ducker, Walter, and F. D. Luke, Kenmore, N. Y. Street sign and reflector. 1,716,214; June 4.
- Duckett, M. H., et al. (See Harvey, Alfred D., assignor.)
- Duciaux, Jacques, Paris, France. Manufacture of ultrafilter membranes. 1,720,670; July 16.
- Dudas, Andrew, and A. P. Wasil, Homestead, Pa. Toy. 1,729,738; Oct. 1.
- Dudenhofen, Jacob, assignor to S. Jalenak and A. A. Schaefer, St. Louis, Mo. Shoe stretcher. 1,726,733; Sept. 3.
- Dudley, Andrew T., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Pump. 1,741,102; Dec. 24.
- Dudley, Dana, Wakefield, Mass. Doorcheck. 1,701,202; Feb. 5.
- Dudley, Homer W., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal-operated repeater circuit. 1,722,039; July 23.
- Dudley, Jesse C., Wilkensburg, Pa. Water-level indicator and automatic scoop control for locomotive tenders. 1,741,618; Dec. 31.
- Dudley, John E., jr., assignor of one-half to E. M. Searls, Madison, Wis. Aphis-removing machine. 1,701,718; Feb. 12.
- Dudley, John E., jr., assignor of one-half to E. M. Searls, Madison, Wis. Aphis-removing machine. 1,710,683; Apr. 30.
- Dudley Lock Corporation, The. (See Winning, R. K., and Thorp, assignors.)
- Dudley, William A., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Selective signaling device for telegraph circuits. 1,702,204; Feb. 12.
- Dudman, John. (See Molesworth, C. E., Dudman, and Zoket.)
- Duemler, Samuel O., Phoenix, Ariz. Hammer level. 1,702,689; Feb. 19.
- Duemler, Virgil E., Maplewood, and G. R. Koeln, assignors, by mesne assignments, to Electrol, Inc. of Missouri, St. Louis, Mo. Thermostatic device. 1,706,057; Mar. 19.
- Duernberger, Herman J., assignor of one-half to W. H. Corbett, Niles, Mich. Cylinder-lapping tool. 1,732,967; Oct. 22.
- Duerr, Winslow A., Breckenridge, Tex., assignor to Cabot Co., Boston, Mass. Apparatus for separation of solids. 1,728,046; Sept. 10.
- Duersten, William E., Milwaukee, Wis., assignor, by mesne assignments, to Global Corporation, Niagara Falls, N. Y. Electrical resistance unit. 1,715,824; June 4.
- Duesenberg, Frederick S., Indianapolis, Ind., assignor to Indianapolis Corporation, Wilmington, Del. Brake. 1,703,483; Feb. 26.
- Duesler, George, Glendale, Calif., assignor to International Motor Company, New York, N. Y. Detachable hose tray. 1,704,825; Mar. 12.
- Dufau, Henri, and V. Legard, Paris, France. Brooch carrying removable letters or like figures. 1,717,374; June 18.
- Duff, Ewen C., assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,730,129; Oct. 1.
- Duff, Nelson W., Kansas City, Mo. Fire box. 1,710,087; Apr. 23.
- Duff-Norton Manufacturing Company, The. (See Hobbs, John W., assignor.)
- Duff-Norton Manufacturing Company, The. (See Schwerin, Frank H., assignor.)
- Duff, William A. (See Stewart, R. C., and Duff.)
- Dufficy, William J., Denver, Colo. Bar ratchet for screen rollers. 1,734,797; Nov. 5.
- Duffie, John J., New York, N. Y. Adjustable clamping frame for ventilating fans. 1,698,328; Jan. 8.
- Duffie, John J., New York, N. Y. Check-printing machine. 1,718,218; May 14.
- Duffield, George B., assignor to Detroit Lubricator Company, Detroit, Mich. Valve. 1,719,801; July 2.
- Duffy, Charles G., Kansas City, Mo. Feed-water heater. 1,723,771; Aug. 6.
- Duffy, Charles H., Miami, Fla. Cable-toggle coupling. 1,710,149; Apr. 23.
- Duffy, Charles H., Miami, Fla. Device for the reproduction of sound. 1,740,161; Dec. 17.
- Duffy, George J., Toronto, Ontario, Canada. Coal car. 1,705,006; Mar. 12.



- Duffy, John J., and F. Hoffman, Waterford, N. Y. Tool for cutting valve stems. 1,715,825; June 4.
- Duffy, Joseph, London, England. Squeegee device for applying liquids to surfaces. 1,709,711; Apr. 16.
- Duffy, Peter J., Houston, Tex. Drill. 1,703,390; Feb. 26.
- Duffy, Ralph E., Greenfield, Mo. Insulator pin. 1,738,875; Dec. 10.
- Duffy, Thomas I., assignor of one-half to J. C. Walker and one-half to R. N. Burton, Chicago, Ill. Flexible connector. 1,703,765; Feb. 26.
- Dufour, René, Paris, France. Method and apparatus for producing spark discharges. 1,735,161; Nov. 12.
- Dugan, Francis A., Nutley, N. J. Pouring vessel. 1,707,799; Apr. 2.
- Dugan, Hugh G., St. Louis, Mo. Washing machine. 1,702,503; Feb. 19.
- Dugan, Joseph, Los Angeles, Calif. Sight-controlled gunnery system. 1,733,531; Oct. 29.
- Dugan, Joseph A., New Orleans, La. Milk-bottle cap. 1,705,661; Mar. 19.
- Dugan, Peter J., New York, N. Y. Operating and control mechanism for door closures. 1,698,862; Jan. 8.
- Dugan, Thomas, Wichita, Kans. Harvester thrasher. 1,700,158; Jan. 29.
- Dugan, Thomas, Wichita, Kans. Separable cutting and thrashing machine. 1,700,286; Jan. 29.
- Dugas, Napoleon, Ripley, Minn. Milking machine. 1,719,395; July 2.
- Dugelay, Paul, Paris, France, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Feed-water heater. 1,733,989; Oct. 29.
- Dugelay, Paul, Paris, France, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Feed-water heater. 1,733,990; Oct. 29.
- Dugelay, Paul, Paris, France, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Feed-water heater. 1,741,124; Dec. 24.
- Duggan, James J., Cincinnati, Ohio. Furring construction. 1,715,743; June 4.
- Duggan, William H., assignor, by mesne assignments, of four-tenths to B. Clarke, one-tenth to C. W. Clarke, and one-tenth to F. M. Clarke, Chicago, Ill. Battery container and handle. 1,720,947; July 16.
- Duggan, William H., assignor, by mesne assignments, of four-tenths to B. Clarke, one-tenth to C. W. Clarke, and one-tenth to F. M. Clarke, Chicago, Ill. Container and handle means. 1,720,948; July 16.
- Du Grenier, Arthur H., Haverhill, Mass., assignor by mesne assignments, to Consolidated Automatic Merchandising Corporation. Coin-controlled mechanism. 1,701,875; Feb. 12.
- Duhamel, Elisée C., Roubaix, France. Washing wool and other textile materials. 1,717,375; June 18.
- Duhamel, Elisée C., Roubaix, France. Washing or cleaning textile materials. 1,717,439; June 18.
- Duhamel, Elisée C., Roubaix, France. Washing wool. 1,717,440; June 18.
- Duhamel, Francois X. A., assignor of one-third to T. Jones, Ottawa, Ontario, Canada. Hair drier. 1,716,580; June 11.
- Duisberg, Walter, W. Hentrich, and L. Zeh, Wiesdorf, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Mono azo dye. 1,711,930; May 7.
- Duke, Charles A., New York, N. Y. Portable floor. 1,710,610; Apr. 23.
- Duke, Elizabeth S., Clinton, Md. Nursery bench chest. Des. 78,508; May 14.
- Duke, Elizabeth S., Clinton, Md. Nursery chest. Des. 78,617; May 28.
- Duke, Harvey E., Portland, Oreg. Milk strainer. 1,703,440; Feb. 26.
- Dukesmith, Frank H., assignor, by mesne assignments, to F. C. Borst and F. R. Stewart, Meadville, Pa. Combined alternate-control locomotive air brake and electropneumatic train-control system. 1,698,719; Jan. 15.
- Duket, Henry T., Toledo, Ohio. Adjustable window-washing platform. 1,721,179; July 16.
- Du Lac, Edmund. (See Barton, A. W., Du Lac, and Ferguson.)
- Dulany, Geo. W., Jr. (See Page, C. B., Burton, Mayr, and White, assignors.)
- Dulany, George W., Jr. (See Winslow, William H., assignor.)
- Dulché, Carlos, Los Angeles, Calif. Gas engine. 1,719,537; July 2.
- Duley, Roy D. (See Harden, W. S., and Duley.)
- Duling, William P., Dixon, Ill. Shield for shoes. 1,725,447; Aug. 20.
- Dultmeier, Frank J., Iowa Falls, Iowa. Motor frame. 1,727,869; Sept. 10.
- Duluth Show Case Company. (See Ganzer, John H., assignor.)
- Dumaine, Louis J., Montreal, Quebec, Canada. Electric hair singer. 1,700,198; Jan. 29.
- Dumanois, Emile P., Boulogne-sur-Seine, France, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Internal-combustion engine. 1,734,763; Nov. 5.
- Dumanois, Emile P., Boulogne-sur-Seine, France, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Internal-combustion engine. 1,734,764; Nov. 5.
- Dumas, Andrew. (See Alvin, Jack F., assignor.)
- Dumas, Georges, Viviers, assignor to the Société Anonyme des Chaux et Ciments de Lafarge et du Teil, Viviers, Ardèche, France. Apparatus for the manufacture of cement by fusion. 1,728,597; Sept. 17.
- Dumas, Joseph N., Oxford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrical multiplier for loom box motion. 1,711,591; May 7.
- Dumbleton, Claude, London, England, assignor to Baker Perkins Company Incorporated, New York, N. Y. Baking oven. 1,709,526; Apr. 16.
- Dumbleton, Claude, London, England, assignor to Baker Perkins Company, Incorporated, New York, N. Y. Baking oven. 1,732,262; Oct. 22.
- Dumbleton, Fred E., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotor. 1,740,077; Dec. 17.
- Dumin, Friedrich, Sheboygan, Wis. Helmet. 1,735,265; Nov. 12.
- Dummett, Hurley S., Kokomo, Ind., assignor to Standard Sanitary Manufacturing Company. Lavatory. 1,725,259; Aug. 20.
- Du Mont, Allen B., Montclair, N. J., assignor to Westinghouse Lamp Company. Mount for radiotubes. 1,719,968; July 9.
- Du Mont, John D., Alameda, Calif. Pattern. 1,708,568; Apr. 9.
- Du-More Tap & Tool Company. (See Dalzen, William F., assignor.)
- Dun, George W., St. Petersburg, Fla. Swimming glove. 1,728,479; Sept. 17.
- Dunbar, Charles L., Kalamazoo, Mich., assignor to LeFebvre Corporation, Cedar Rapids, Iowa. Loose-leaf binder. 1,109,843; Apr. 23.
- Dunbar, Frank H., Cleveland, Ohio, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Wall construction. 1,707,347; Apr. 2.
- Dunbar, Frank H., Cleveland, Ohio., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Ash gate. 1,732,576; Oct. 22.
- Dunbar, George S., assignor to The Federal Glass Company, Columbus, Ohio. Tumbler or article of similar nature. Des. 78,014; Mar. 19.
- Dunbar, George S., assignor to The Federal Glass Company, Columbus, Ohio. Footed tumbler or article of similar nature. Des. 78,912; July 2.
- Dunbar, George S., and S. R. Scholes, assignors to The Federal Glass Company, Columbus, Ohio. Measuring device. 1,718,897; June 25.
- Dunbar, Harold F., Turners Falls, Mass. Variable-speed paper-machine drive train. 1,698,189; Jan. 8.
- Dunbar, Howard W. (See Belden, A. G., Dunbar, and Flygare.)
- Dunbar, Noel S., New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Combined radio and phonograph cabinet or similar article. Des. 79,552; Oct. 8.
- Dunbar, Robert V. (See Bocek, Tomas, assignor.)
- Dunbar, Robert V. (See Samuels, Maurice M., assignor.)
- Dunbar, Thomas L., and A. F. Richter, assignors to Chemical Process Inc., Watertown, N. Y. Method and apparatus for digesting fibrous material. 1,699,056; Jan. 15.
- Duncan, Alfred M., Clovelly, near Sydney, New South Wales, Australia. Bumper bar. 1,739,218; Dec. 10.
- Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)
- Duncan Electric Manufacturing Company. (See Shuck, Gordon R., assignor.)
- Duncan, Frank W. (See Snow, L. A., and Duncan.)
- Duncan, Fred, Summit, Oreg. Tie plate. 1,704,594; Mar. 5.
- Duncan, George. (See Worcester, R. H., and Duncan.)
- Duncan, Harry F., Ewa, Hawaii. Harvester. 1,710,611; Apr. 23.
- Duncan, J. W. (See Thompson, William H., assignor.)
- Duncan, James W., et al. (See Raper, John B., assignor.)
- Duncan, John H., assignor of one-half to T. A. Stackhouse, Sacramento, Calif. Certificate holder. 1,712,693; May 14.
- Duncan, Joseph S., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing machine. 1,708,966; Apr. 16.
- Duncan, Joseph S., and H. E. Hubbard, assignors, by mesne assignments, to Addressograph Company, Chicago, Ill. Ink-ribbon mechanism. 1,710,088; Apr. 23.
- Duncan, Laurel. (See Lindahl, E., and Duncan.)
- Duncan, Lee N., Oklahoma City, Okla. Cardcase. 1,723,685; Aug. 6.
- Duncan, Paul J., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for dephlegmation. 1,738,766; Dec. 10.
- Duncan, Robert D., Jr., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. High-frequency broadcasting over power lines. 1,730,412; Oct. 8.
- Duncan, William M., Alton, Ill. Rotary furnace. 1,728,958; Sept. 24.
- Duncanson, Walter B., assignor to The J. G. Wilson Corporation, New York, N. Y. Movable fire shutter. 1,705,085; Mar. 12.
- Dunklee, Francis P., et al. (See Hultman, Edgar W., assignor.)
- Dundin, Wilfrid L., and E. S. Stehl, assignors of one-third to F. E. Reynolds, one-third to said Dundin, and one-third to said Stehl, Seattle, Wash. Cross air connection for twin tires. 1,736,191; Nov. 19.



- Duner, John C., Chicago, Ill. Water-closet. 1,711,635; May 7.
- Duner, John C., Chicago, Ill. Device for making rugs. 1,724,463; Aug. 13.
- Dunham, C. A., Company. (See Crosthwait, David N., Jr., assignor.)
- Dunham, C. A., Company. (See Dunham, Clayton A., assignor.)
- Dunham, Clayton A., Glencoe, Ill., assignor, by mesne assignments, to C. A. Dunham Company, Marshalltown, Iowa. Temperature indicator for internal-combustion engines. 1,703,302; Feb. 26.
- Dunham, Clayton A., Glencoe, Ill., assignor to C. A. Dunham Company, Marshalltown, Iowa. Heating by sub-atmospheric steam. 1,706,401; Mar. 26.
- Dunham, Clayton A., Glencoe, Ill., assignor to C. A. Dunham Company, Marshalltown, Iowa. Exhausting apparatus. 1,724,262; Aug. 13.
- Dunham, Clayton A., Glencoe, Ill., assignor to C. A. Dunham Company, Marshalltown, Iowa. Temperature indicator for engines. 1,731,612; Oct. 15.
- Dunham, Clayton A., Glencoe, Ill., assignor, by mesne assignments, to C. A. Dunham Company, Marshalltown, Iowa. Primer for vacuum pumps. 1,734,567; Nov. 5.
- Dunham, George W., Utica, assignor to Whirlidry Corporation, Utica, N. Y. Laundry-confining device for spinners of laundry machines. 1,711,141; Apr. 30.
- Dunham, George W., assignor to Whirlidry Corporation, Utica, N. Y. Clutch arrangement for laundry machines. 1,728,047; Sept. 10.
- Dunham, George W., assignor to The Whirlidry Corporation, Utica, N. Y. Multiple-compartment laundry machine. 1,741,685; Dec. 31.
- Dunham, George W., Utica, N. Y., assignor to The Whirlidry Corporation, New Haven, Conn. Multiple-compartment laundry machine. 1,741,686; Dec. 31.
- Dunham, Henry V. (See Bradshaw, L., and Dunham.)
- Dunham, John A., assignor to E. Becker, Topeka, Kans. Washboiler. 1,715,282; May 28.
- Dunham, John R. (See Dalton, G. A., and Dunham.)
- Dunham, William G., New York, N. Y. Determining the relative position of objects and devices suitable therefor. 1,705,243; Mar. 12.
- Dunham, William G., assignor to Weber Electric Company, Schenectady, N. Y. Lamp support. 1,723,471; Aug. 6.
- Dunhill, Alfred, of London, Inc. (See Ogden, Arnold L., assignor.)
- Dunhill, Vernon, London, England. Device for filling mechanical flint lighters and for similar purposes. 1,728,154; Sept. 10.
- Dunkelsberg, Louis, New York, N. Y. Auxiliary lens attachment for glasses. 1,738,990; Dec. 10.
- Dunker, Louis H. A., Birmingham, England. Construction of roads and the like. 1,737,412; Nov. 26.
- Dunkerley, William, North Melbourne, Victoria, Australia. Refrigerating system. 1,710,300; Apr. 23.
- Dunkin, Damon D., Gulon, Ark. Method and apparatus for grading material. 1,699,522; Jan. 22.
- Dunkle, Arthur J. (See Schaffran, Isaac, assignor.)
- Dunkley Company. (See Schau, Harvey C., assignor.)
- Dunkley, Harold. (See Goolsby, Neal T., assignor.)
- Dunklin, William, New York, N. Y. Cleaning linotype matrices. 1,725,785; Aug. 27.
- Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Article of manufacture made of waste cones. 1,716,215; June 4.
- Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Dyeing apparatus. 1,730,320; Oct. 1.
- Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Making bobbins. 1,731,565; Oct. 15.
- Dunlap, Charles K., assignor to Sonoco Products Company, Hartsville, S. C. Apparatus for making bobbins. 1,731,715; Oct. 15.
- Dunlap, Edwin T., Hawarden, Iowa. Clothesline bracket. 1,740,727; Dec. 24.
- Dunlap, George G., Cleveland, Ohio. Collar protector and hair device. 1,723,018; Aug. 6.
- Dunlap, William A., Pittsburgh, Pa. Shade holder. 1,705,178; Mar. 12.
- Dunlop, Isabelle, assignor to Marshall Field & Company, Chicago, Ill. Textile fabric or similar article. Des. 79,228; Aug. 20.
- Dunlop, James, Chicago, Ill., assignor to Westinghouse Electric & Manufacturing Company. Brake. 1,710,767; Apr. 30.
- Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Resistance element. 1,726,476; Aug. 27.
- Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electromagnet. 1,738,528; Dec. 10.
- Dunlop, Robert R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Resistance unit. 1,738,529; Dec. 10.
- Dunlop Rubber Company Limited. (See Binnie, Victor B. C., assignor.)
- Dunlop Rubber Company. (See Cardwell, Samuel O., assignor.)
- Dunlop Rubber Company Limited, The. (See Goodyear, Claude E., assignor.)
- Dunlop Rubber Company Limited. (See Paull, Wallace H., assignor.)
- Dunlop Rubber Company Limited. (See Twiss, D. F., and Murphy, assignors.)
- Dunlop Tire and Rubber Corporation. (See Fellowes, Frank, assignor.)
- Dunlop Tire and Rubber Corporation. (See McChesney, Cuyler S., assignor.)
- Dunlop Tire & Rubber Corporation. (See Randles, J. T. T., Willshaw, and Smith, assignors.)
- Dunlop Tire & Rubber Goods Co., The. (See Ansell, George A., assignor.)
- Dunmire, Russell P., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,736,149; Nov. 19.
- Dunmire, Russell P., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,739,953; Dec. 17.
- Dunmire, Russell P., and D. E. Kellogg, assignors to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,736,150; Nov. 19.
- Dunn, Alfred W., Honoum, Hawaii. Mill-roll bearing. 1,724,398; Aug. 13.
- Dunn, Allen I. (See Merklein, W. A., and Dunn.)
- Dunn, Alpin I., New York, N. Y. Airship. 1,717,552; June 18.
- Dunn, Christ, Milwaukee, Wis. Station indicator. 1,706,876; Mar. 26.
- Dunn, Clifford E. (See Rose, P. A., and Dunn.)
- Dunn, Earl F., Mammoth, and E. Muhlestein, Silver City, Utah. Purse. 1,704,285; Mar. 5.
- Dunn, Edward A., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,721,862; July 23.
- Dunn, Edward L. (See Lindquist, D. L., Dunn, and Larson.)
- Dunn, Elmer C., Keokuk, Iowa. Clothes stick. 1,712,652; May 14.
- Dunn, Felix E., and C. W. Martin, Gold Hill, Oreg. Engine governor. 1,702,820; Feb. 19.
- Dunn, George H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Support for tire casings or the like. 1,712,915; May 14.
- Dunn, Harold E., Sioux Falls, S. Dak. Ice-cream container. 1,730,562; Oct. 8.
- Dunn, Harold E., Sioux Falls, S. Dak. Ice-cream-dispensing container. 1,740,539; Dec. 24.
- Dunn, Harry E., Holland, Mich. Cement-block tamper. 1,718,338; June 25.
- Dunn, Hugh, Falkirk, Scotland. Finishing of book covers. 1,699,957; Jan. 22.
- Dunn, Hugh, Falkirk, Scotland. Machine for finishing book covers. 1,709,252; Apr. 16.
- Dunn, Irwin L., J. O. Lewis, and H. R. Pierce, Tulsa, Okla. Explosion arrester. 1,701,805; Feb. 12.
- Dunn, Irwin L., and L. C. Mings, assignors, by mesne assignments, to Dunn & Lewis, Tulsa, Okla. Oil-recovery and gasoline-extraction apparatus. 1,721,010; July 16.
- Dunn, Jackson, Byron, Manufacturing Company. (See Turner, James S., assignor.)
- Dunn, James M. (See Wellman, W. I., and Dunn.)
- Dunn, John C., Providence, R. I. Cloth board and its manufacture. 1,737,361; Nov. 26.
- Dunn, John J., Boston, assignor of one-half to W. A. Mace, Dorchester, Mass. Key-controlled valve. 1,700,474; Jan. 29.
- Dunn, John S. (See Allen, T. T., Adams, and Dunn.)
- Dunn, John S., Philadelphia, Pa. Relay switch. 1,741,409; Dec. 31.
- Dunn, Joseph A., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,717,765; June 18.
- Dunn, Joseph F., New York, N. Y. Alarm clock. 1,731,846; Oct. 15.
- Dunn, Laurence W., Pittsburgh, Pa. Sled. 1,706,568; Mar. 26.
- Dunn & Lewis. (See Dunn, I. L., and Mings, assignors.)
- Dunn & Lewis. (See Lewis, James O., assignor.)
- Dunn, Ralph B., Luling, Tex. Barrel-draining rack. 1,729,507; Sept. 24.
- Dunn, Syrus C., Marion, Ark. Dredging apparatus. 1,704,181; Mar. 5.
- Dunn, William C., Chicago, Ill. Internal-combustion engine. 1,706,569; Mar. 26.
- Dunn, William E., Wilmette, Ill., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage-battery grease-sealing nut. 1,714,467; May 21.
- Dunn, William G., Clarinda, Iowa. Awning structure. 1,722,564; July 30.
- Dunn, William G., Clarinda, Iowa. Attachment for instrument boards. 1,722,565; July 30.
- Dunn, William G., Clarinda, Iowa. Binder device for awnings, curtains, and the like. 1,729,158; Sept. 24.
- Dunn, William G., Clarinda, Iowa. Binder strip. 1,729,159; Sept. 24.
- Dunn, William H., Denver, Colo. Device for testing eyes. 1,698,431; Jan. 8.
- Dunne, Edmund F., assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Needle-motion mechanism for looms. 1,718,546; June 25.
- Dunne, Joseph, et al. (See Opitz, Bernhard O., assignor.)
- Dunne, Joseph E. (See Kenney, John E., assignor.)
- Dunne, Thomas H., San Francisco, Calif. Pencil. 1,716,953; June 11.
- Dunnebie, Max, Neuweid-on-the-Rhine, Germany, assignor to Baltimore Paper Company, Kansas City, Mo. Envelope-folding device. 1,700,737; Feb. 5.
- Dunner, Julius, New York, N. Y. Feather-plucking device. 1,737,225; Nov. 26.



- Dunner, Julius, New York, N. Y. Tapered roller feather-plucking device. 1,737,226; Nov. 26.
- Dunning Compressor Co. (See Sachsenmaier, Ervin S., assignor.)
- Dunning, David M., jr., Auburn, N. Y. Lettering instrument. 1,716,036; June 4.
- Dunning, William E., assignor to The McCaskey Register Company, Alliance, Ohio. Index for filing appliances. 1,736,395; Nov. 19.
- Dunning, William E., and J. Bachofen, assignors to The McCaskey Register Company, Alliance, Ohio. Cash drawer. 1,700,352; Jan. 29.
- Dunnock, John L., Baltimore, Md. Bottle. Des. 78,735; June 18.
- Dunoyer, Louis D. J. A., Neuilly-sur-Seine, and P. M. G. Toulon, Paris, France, assignors, by mesne assignments, to General Electric Company. Vapor electric device. 1,739,443; Dec. 10.
- Dunsmore, Alexander F., Glasgow, Scotland. Safety device for centrifugal-machine baskets and spindles. 1,697,110; Jan. 1.
- Dunstan, Albert E. (See Auld, S. J. M., Dunstan, and Herring.)
- Dunstan, Albert E. (See Beale, E. S. L., Coxon, and Dunstan.)
- Dunsworth, William J., Detroit, Mich. Metallic awning. 1,696,940; Jan. 1.
- Dunwoodie, David, Dayton, Ohio. Coupling for rotary elements. 1,710,150; Apr. 23.
- Dunzweiler, Carl J., assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 1,725,260; Aug. 20.
- Duo-Tor Manufacturing Company, The. (See Epstein, William C., assignor.)
- Du Perow, Mortimer, Washington, D. C. Radioreceiver. 1,697,659; Jan. 1.
- Duperu, Alphonse M., Crockett, Calif. Regeneration of kieselguhr. 1,708,362; Apr. 9.
- Dupire, André P. H., Thiais, France. Apparatus for electrolyzing chiefly alkaline chlorides. 1,741,290; Dec. 31.
- Du Plessis, Milton P., Evanston, Ill., assignor to Ready-Bilt Store Equipment Company. Storage structure. 1,734,161; Nov. 5.
- Duplessis, René E. (See Fausse, J., and Duplessis.)
- Duplessis, René E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. 1,706,277; Mar. 19.
- Duplessis, René E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on footwear. 1,706,278; Mar. 19.
- Duplessis, René E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,706,279; Mar. 19.
- Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
- Duplex Printing Press Company. (See Dean, Edmund W., assignor.)
- Duplex Transmission Company. (See Stumpfenhorst, John A., assignor.)
- Du Pont Ammonia Corporation. (See Williams, Roger, assignor.)
- Du Pont Cellophane Company. (See Charch, W. H., and Prindle, assignors.)
- Du Pont Cellophane Company, Inc. (See Coleman, C. E., Whittaker, and Sharpe, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Black, C. O., and Moore, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Bolton, Elmer K., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Booge, J. E., and Coolidge, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Bowers, Paul C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bradshaw, Hamilton, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Bradshaw, H., Nollau, and Woodbridge, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Bridgwater, E. R., and Slack, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Burke, Charles E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Calcott, Douglass, and Hayden, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., and Parmelee, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Daudt, Herbert W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Daudt, H. W., Parmelee, and Monroe, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Davis, Clark W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Emhardt, John C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Gebauer-Fuehlberg, Erich, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Hitch, E. F., and Jordan, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Hitch, E. F., Jordan, and Bradley, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Hitt, Maurice V., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Jackson, James G., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Jordan, Henry, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Kern, J. G., and Sala, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Lindsay, William J., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Lulek, Ralph N., assignor.)
- Du Pont, E. I., de Nemours and Company. (See McDermott, Frank A., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Parmelee, Alfred E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Powers, Donald H., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Sachs, John H., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Schwartz, George L., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Scott, Winfield, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Stine, Charles M., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Stine, C. M., and Coolidge, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Stine, C. M. A., and Booge, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Stine, C. M. A., Coolidge, and Middleton, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Taylor, Guy B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Taylor, G. B., and Zeisberg, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Thompson, Merville S., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Verderosa, Joseph M., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Waldron, William R., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Woodward, Harold E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Zeisberg, Fred C., assignor.)
- Du Pont, Eleuthere P., Montchanin, Del. Speed-reduction gearing. 1,698,720; Jan. 15.
- Du Pont, Eleuthere P., Montchanin, Del. Speed-reduction gearing. 1,715,908; June 4.
- Du Pont, Eleuthere P., Montchanin, Del. Convertible body for automobiles. 1,724,464; Aug. 13.
- Du Pont, Eleuthere P., Montchanin, Del. Stripe-painting device. 1,739,296; Dec. 10.
- Du Pont, Francis I., Wilmington, Del. Liquid-vending machine. 1,701,609; Feb. 12.
- Du Pont, Francis I., Wilmington, Del. Instrument board for automobiles. 1,739,954; Dec. 17.
- Dupont, Lucien, Vincennes, France. Manufacturing of synthetic camphor. 1,733,218; Oct. 29.
- Du Pont, Max B., Vitacolor Corporation. (See Du Pont, Max B., assignor.)
- Du Pont, Max B., Vitacolor Corporation. (See Kelley, William V. D., assignor.)
- Du Pont, Max B., assignor to Max B. Du Pont Vitacolor Corporation, Los Angeles, Calif. Apparatus for projecting motion pictures in color. 1,709,341; Apr. 16.
- Du Pont-Pathe Film Manufacturing Corporation. (See Clément, Louis E., assignor.)
- Du Pont-Pathe Film Manufacturing Corporation. (See Cocanari, Silvio, assignor.)
- Du Pont-Pathe Film Manufacturing Corporation. (See Landucci, Alfred, assignor.)
- Du Pont Viscoloid Company. (See Person, Earl R., assignor.)
- Dupré, Wilfred, Worcester, Mass. Broom. 1,703,267; Feb. 26.
- Du Prel, Dr., Elektromedizinische-Apparate, G. m. b. H. (See du Prel, Gerhard F., assignor.)
- Du Prel, Gerhard F., Munich, assignor to Dr. du Prel Elektromedizinische-Apparate, G. m. b. H., Munich, Germany. High-frequency apparatus. 1,721,271; July 16.
- Dupuis, Charles, Ladysmith, Wis. Gate valve. 1,727,161; Sept. 3.
- Dupuis, Conrade H., Riverbend, Quebec, Canada. Screen-cleaning device for paper-making machines. 1,719,969; July 9.
- Dupuis, William S., assignor of one-half to A. P. Richards, Plymouth, Mass. Detachable fin for boats. 1,730,844; Oct. 8.
- Duquette, E. F. (See Lewis, Morgan J., assignor.)
- Dura Company, The. (See Graff, George, assignor.)
- Dura Company, The. (See Hanson, Miles G., assignor.)
- Dura Company, The. (See Haskins, Howard B., assignor.)
- Dura Company, The. (See Miller, D., and Floraday, assignors.)
- Dura Company, The. (See Nicholson, Stanley W., assignor.)
- Dura Company, The. (See Sattler, C., and Haskins, assignors.)
- Durabilt Steel Locker Co. (See Kaser, Everett D., assignor.)
- Durable Mat Company. (See Hollenbeck, Harold W., assignor.)
- Durable Mat Company, The. (See Lyons, C. T., and Bell, assignor.)
- Du Rall, John H., Mounds, Ill. Honey container. 1,740,394; Dec. 17.
- Duraloy Company, The. (See Mills, Charles P., assignor.)



- Durán, Jean, Eijon, France, assignor to United Shoe Machinery Company, Paterson, N. J. Pattern-grading machine. 1,102,381; Feb. 19.
- Durán y Daspenas, Lorenzo, Habana, Cuba. Clutch mechanism and changing of speed. 1,739,216; Dec. 10.
- Durand, Arthur F., Chicago, Ill. Motor boat. 1,712,758; May 14.
- Durand, George E., Denver, Colo. Crane jack. 1,720,825; July 16.
- Durand & Huguenin S. A. (See Bader, M., Sunder, and Voltz, assignors.)
- Durand, Nelson C., Newark, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Control means for phonographs. 1,733,951; Oct. 29.
- Durand Steel Locker Company. (See Vance, Walter N., assignor.)
- Durant, Albert A., Honolulu, Hawaii. Insulated pipe. 1,709,844; Apr. 23.
- Durant, John D., assignor to Blue Ribbon Sales Agency, Inc., New York, N. Y. Gauge connection. 1,721,617; July 23.
- Durant Motor Co. (See Harder, D. S., and Vrooman, assignors.)
- Durant, William H., Reading, Mass. Grease cup. 1,706,917; Mar. 26.
- Durbin, Felix A., and C. McGee, Louisville, Ky. Car mover. 1,712,334; May 7.
- Durbin, Harvey R., Larchmont, assignor to International Cement Corporation, New York, N. Y. Production of Portland cement. 1,700,032; Jan. 22.
- Durbin, Harvey R., Larchmont, assignor to International Cement Corporation, New York, N. Y. Production of Portland cement. 1,700,033; Jan. 22.
- Durbin, Samuel B. (See Baird, L. D. and Durbin.)
- Durdin, Augustus C., jr., Chicago, Ill. Pumping Apparatus. 1,698,692; Jan. 8.
- Durdin, Augustus C., jr., Chicago Ill. Pumping apparatus. 1,698,693; Jan. 8.
- Durdin, Augustus C., jr., Chicago, Ill. Displacement apparatus. 1,699,326; Jan. 15.
- Durdin, Augustus C., jr., Chicago, Ill. Operating electric switches and other mechanism. 1,732,577; Oct. 22.
- Durdin, Augustus C., jr., Chicago, Ill. Displacement apparatus. 1,699,327; Jan. 15.
- Durdin, Augustus C., jr., Chicago, Ill. Fluid-displacing apparatus. 1,699,328; Jan. 15.
- Durdin, Augustus C., jr., Chicago, Ill. Vacuum condensation pump. 1,721,590; July 23.
- Durdin, Augustus C., jr., assignor to Chicago Pump Company, Chicago, Ill. Adjustable ball-bearing mounting. 1,698,694; Jan. 8.
- Durell, George E., assignor to The Union Fork & Hoe Company, Columbus, Ohio. Display rack. 1,733,868; Oct. 29.
- Duresen, Andrew, Minneapolis, Minn. Front-wheel mounting for motor vehicles. 1,731,374; Oct. 15.
- Durfee, Frank R., and T. K. Cummins, St. Paul, Minn. Reflector. 1,718,856; June 25.
- Durham, Archie E., Clarendon, Va. Combustion aeroplane and boat. 1,721,437; July 16.
- Durham, Robert P., assignor to Macdonald Engineering Company, Chicago, Ill. Concrete structure. 1,722,970; July 30.
- Durlig, Orval G., Wellsburg, W. Va. Reading stand. 1,713,376; May 14.
- Durling, Otto P., Chicago, Ill. Scraping implement. 7,710,151; Apr. 23.
- During, William J., Syracuse, assignor to Precision Castings Company, Inc., Fayetteville, N. Y. Die casting and producing same. 1,722,281; July 30.
- Duriron Company, The. (See Jacobsen, Oystein, assignor.)
- Duriron Company, The. (See Parsons, James A., jr., assignor.)
- Durkee-Atwood Company. (See Walz, Carl F., assignor.)
- Durkee, Ernest W., Lynn, Mass. Last. 1,731,000; Oct. 8.
- Durkee, Frederick M., Brookline, Mass. Applying sealing wax. 1,705,107; Mar. 12.
- Durkin, William H. (See Kemper, A. H., and Durkin.)
- Durner, Herbert B., Evansville, Wis. Adjustable emery-wheel dresser. 1,711,343; Apr. 30.
- Durning, Martin J., and J. M. McGowan, Newark, N. J. Brake. 1,724,568; Aug. 13.
- Duro Company, The. (See Eisenhauer, Charles P., assignor.)
- Duro Company, The. (See Wilson, Herbert L., assignor.)
- Dur-O-Lite Pencil Company. (See Lynn, John P., assignor.)
- Duro Metal Products Company. (See Odlum, William H., assignor.)
- Duross, John, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Paging system. 1,719,396; July 2.
- Durr, André H. V., assignor to Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France. Resinous condensation product and preparing same. 1,739,446; Dec. 10.
- Durr, André H. V., assignor to Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France. Resinous condensation product. 1,739,447; Dec. 10.
- Durr, André H. V., assignor to Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France. Resinous condensation product. 1,739,448; Dec. 10.
- Durr, Arthur, et al. (See Cardwell, William J., assignor.)
- Durrant, William, Plainfield, N. J. Plate-clamping mechanism. 1,711,377; Apr. 30.
- Durrant, William, Plainfield, N. J. Plate-locking mechanism for printing presses. 1,733,653; Oct. 29.
- Dürsch, Christoph, Nuremberg, Germany. Welding and soldering composition. 1,722,404; July 23.
- Durst, Arthur C., Erie, Pa. Electrical pencil sharpener. 1,740,395; Dec. 17.
- Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
- Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,719,105; July 2.
- Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,732,675; Oct. 22.
- Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,735,424; Nov. 12.
- Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Brake mechanism for railway cars. 1,737,922; Dec. 3.
- Duschak, Lionel H., San Francisco, assignor to Oliver Continuous Filter Company, Oakland, Calif. Separating precious metals and copper from cyanide solution. 1,699,350; Jan. 15.
- Duschak, Lionel H., assignor, by mesne assignments, to Oliver United Filters Incorporated, San Francisco, Calif. Using amalgams. 1,736,072; Nov. 19.
- Duskin, Morry L., and H. L. Magill, Chicago, Ill. Toothbrush holder. 1,710,725; Apr. 30.
- Dustan, Frank, and J. H. Welch, Fitchburg, Mass., assignors, by mesne assignments, to Shaw Crane-Putnam Machine Company, Inc. Driver of the crank-pin type. 1,705,967; Mar. 19.
- Dustan, Frank, and R. P. Skidmore, Fitchburg, Mass., assignors, by mesne assignments, to Shaw Crane-Putnam Machine Company, Inc. Car-wheel-borer chuck. 1,730,063; Oct. 1.
- Dustan, Frederick P., assignor to Shosum Manufacturing Corporation, Salamanca, N. Y. Display rack for shoes and the like. 1,712,984; May 14.
- Dutcher, Charles H., Jersey City, N. J., assignor to Kieley & Mueller, Inc., New York, N. Y. Return trap. 1,699,464; Jan. 15.
- Dutchess Tool Company. (See Van Houten, Frank H., assignor.)
- Dutel, Anne-Marie. (See Altwegg, J., and Dutel.)
- Dutey, Jean. (See Buerk, C. A., and Dutey.)
- Duthie, James A., Philadelphia, Pa. Awning hanger. 1,735,314; Nov. 12.
- Duthie-Strachan, George, Newton, Mass. Filing tray. 1,712,177; May 7.
- Dutkiewicz, Valentin, Paris, France. Transporter. 1,719,758; July 2.
- Dutro, Leslie C., Long Beach, Calif. Lubricator. 1,735,266; Nov. 12.
- Dutton, Harley B., Franklin Township, Somerset County, N. J. Composition for application to tractive surfaces. 1,734,798; Nov. 5.
- Duty, Spencer M., assignor to The Medal Brick and Tile Company, Cleveland, Ohio. Process and apparatus for forming face brick. 1,735,497; Nov. 12.
- Duval, Elsie, executrix. (See Duval, John W.)
- Duval, John W., deceased, Pittsburgh, Pa.; E. Duval, executrix. Automatic advertising machine. 1,700,435; Jan. 29.
- Duvall, George M., Auburn, assignor to Ringer-Worcester Company, Worcester, Mass. Metal receptacle and making same. 1,725,903; Aug. 27.
- Duvall, James, Camas, Wash., assignor to Crown Willamette Paper Company, San Francisco, Calif. Shopping bag. 1,721,043; July 16.
- Duvall, James, Camas, Wash., assignor to Crown Willamette Paper Company, San Francisco, Calif. Bottom-handled bag. 1,733,219; Oct. 29.
- Duvall, James, Camas, Wash. Reinforcing closure means for paper bags. 1,736,396; Nov. 19.
- Duvall, James, and G. W. Smith, Camas, Wash. Bag-bundling machine. 1,711,228; Apr. 30.
- Duvall, Samuel, Chicago, Ill. Pulverizing mill. 1,713,957; May 21.
- Duvall, William J., assignor to Smith & Davis Manufacturing Company, St. Louis, Mo. Bed construction. 1,736,878; Nov. 26.
- Duwe, Friedrich, Mainz, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Nuremberg, Germany. Roller weir. 1,736,850; Nov. 26.
- Duwe, Friedrich, Mainz, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Nuremberg, Germany. Roller weir with extension gate. 1,736,851; Nov. 26.
- Du-Wel Steel Products Co. (See Kennedy, A. D., and Gillies, assignors.)
- Dvinsky, Abraham, Brockton, Mass. Bounding toy. 1,707,714; Apr. 2.
- Dvorkovitz, Paul, Kensington, England. Retort for treating carbonaceous matter. 1,706,825; Mar. 26.



- Dwelle, Walter K., assignor of forty per cent to J. T. Deaver, twelve and one-half per cent to J. Lawlor, and seven and one-half per cent to C. C. Cunningham, Houston, Tex. Aeroplane propeller. 1,711,047; Apr. 30.
- Dwight & Lloyd Metallurgical Company. (See Lloyd, Richard L., assignor.)
- Dwight and Lloyd Sintering Company. (See Hyde, Reed W., assignor.)
- Dwight, Russell S., Cincinnati, Ohio. Machine and process for stretching webs. 1,732,968; Oct. 22.
- Dworkis, Hyman, Chicago, Ill. Cedar chest. Des. 78,454; May 7.
- Dworsky, Abraham S., Minneapolis, Minn. Film-cleaning machine. 1,716,878; June 11.
- Dworsky, Abraham S., New York, N. Y. Machine for inspecting films. 1,716,879; June 11.
- Dwyer, Harold A., Baldwin, N. Y. Forgery-preventing means. 1,737,709; Dec. 3.
- Dwyer, John E., Cincinnati, Ohio. Drill holder for lathe tailstocks. 1,718,279; June 25.
- Dwyer, Thomas A. W., Passaic, assignor of seven-sixteenths to H. O. Schundler, Madison, N. J., one-eighth to W. H. Botsford, and one-sixteenth to A. J. James, New York, N. Y. Rotary retort. 1,703,418; Feb. 26.
- Dwyer, Thomas A. W., Passaic, assignor of seven-sixteenths to H. O. Schundler, Madison, N. J., two-sixteenths to W. H. Botsford, and one-sixteenth to A. J. James, New York, N. Y. Method of and apparatus for distillation. 1,703,419; Feb. 26.
- Dwyer, Thomas F., jr., Cambridge, assignor to Superior Engineering Company, Boston, Mass. Soot blower. 1,709,065; Apr. 16.
- Dwyer, Thomas F., jr., Cambridge, assignor to Superior Engineering Company, Boston, Mass. Soot blower. 1,709,167; Apr. 16.
- Dwyer, William C. (See Robinson, C. W., and Dwyer.)
- Dwyer, William C., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. 1,712,815; May 14.
- D'Yarmett, Edward C., assignor to The Fractionator Company, Kansas City, Mo. Heat-treating hydrocarbon oil. 1,732,805; Oct. 22.
- Dybvig, Olaf N., Detroit, Mich. Furnace. 1,712,260; May 7.
- Dyck, Henry H., Winnipeg, Manitoba, Canada. Automatic fire alarm. 1,726,477; Aug. 25.
- Dyer, Foster G. (See Bodien, Arthur J., assignor.)
- Dyer, Frank L., Montclair, N. J. Apparatus for making phonograph records. 1,726,546; Sept. 3.
- Dyer, Harold L., Auburn, Me. Envelope-feeding apparatus for typewriters. 1,707,080; Mar. 26.
- Dyer, Harry W. (See Scharnagel, Herman, assignor.)
- Dyer, Harry W., New York, N. Y. Refrigerating apparatus. 1,730,494; Oct. 8.
- Dyer, Harry W., New York, N. Y. Household refrigerator. 1,735,453; Nov. 12.
- Dyer, Harry W., New York, N. Y. Refrigerating apparatus. 1,735,454; Nov. 12.
- Dyer, Horace T., Greenwich, Conn., assignor to Peabody Engineering Corporation, New York, N. Y. Fuel burner. 1,738,176; Dec. 3.
- Dyer, Orville K., assignor to Buffalo Forge Company, Buffalo, N. Y. Automatic shutter. 1,706,280; Mar. 19.
- Dyer, Rex H., Kansas City, Mo. Chair. Des. 77,756; Feb. 19.
- Dyer, Richard W., Newfield, N. J. Meat paste and making the same. 1,697,857; Jan. 8.
- Dyer Motorcraft Corporation. (See Herreshoff, Lewis F., assignor.)
- Dyess, Henry O., assignor of one-fourth to J. N. Grey and one-fourth to G. W. Murphy, Columbus, Ga. Apparatus for vibrating doffer combs. 1,723,335; Aug. 6.
- Dykes, Albert H., Revere, assignor of one-half to C. B. Day, Boston, Mass. Gun lock. 1,741,125; Dec. 24.
- Dykes, John A., El Reno, Okla. Cotton harvester and cleaner. 1,700,926; Feb. 5.
- Dykes, John L. G., Chicago, Ill. Detachable auxiliary sole for footwear. 1,727,587; Sept. 10.
- Dymont Company, The. (See Dymont, Elwood, assignor.)
- Dymont, Elwood, assignor to The Dymont Company, Cleveland, Ohio. Easel attachment. 1,710,814; Apr. 30.
- Dynamic Fuelizer Company, The. (See Nimrick, O., and Hinton, assignors.)
- Dynamic Unit Corporation of America. (See Abrahams, A. I., and Jonssens, assignors.)
- Dyrssen, Waldemar, Sharpsburg, assignor to Blaw-Knox Company, Pittsburgh, Pa. Heat exchanger. 1,741,225; Dec. 31.
- E. M. S. Industrial Processes Limited. (See Salerni, Piero M., and E. M., assignors.)
- E. & N. Manufacturing Company, The. (See Barber, William J., assignor.)
- E. & N. Manufacturing Company, The. (See Newton, M. C., and Gremling, assignors.)
- E. Z. E. Cushion Corporation. (See Lydecker, John G., assignor.)
- Eager, Frederick W., Quincy, assignor to H. H. Beckwith, Brookline, Mass. Softening shoe stiffeners. 1,733,486; Oct. 29.
- Eagle, C. K., & Co. (See Hertel, Charles C., assignor.)
- Eagle Foundry Company. (See Klemme, Maurice G., assignor.)
- Eagle Lites, Inc. (See Altbach, George H., assignor.)
- Eagle Lites, Inc. (See Grossman, Julius, assignor.)
- Eagle Manufacturing Company, The. (See Paull, J., and Miller, assignors.)
- Eagle Metallic Bed Corporation. (See Nisensohn, Joseph, assignor.)
- Eagle Pencil Company. (See Fischer, John H., assignor.)
- Eagle Pencil Company. (See Hanle, Benjamin W., assignor.)
- Eagle Pencil Company. (See Solinger, Leo, assignor.)
- Eagle Picher Lead Company, The. (See De Horvath, Zoltan, assignor.)
- Eagle Stove Works. (See Howell, Ulysses N., assignor.)
- Eagle Wagon Works, The. (See Sherwood, William E., assignor.)
- Eagley, Karl C. (See Wilson, G. B., and Eagley.)
- Eagleston, Eugene and J. M., Columbus, Ohio. Casting sash weights. 1,727,278; Sept. 3.
- Eagleston, James M. (See Eagleston, Eugene and J. M.)
- Eagon, Lloyd L. (See Bailey, R. S., and Eagon.)
- Eakle, Flora B., West Alexandria, Ohio. Pastry storage and carrier device. 1,738,424; Dec. 3.
- Ealy, Milton D., Los Angeles, Calif. Bedcover support. 1,732,716; Oct. 22.
- Eames Company. (See Guitschula, André, assignor.)
- Eames, George M., Bridgeport, and J. C. Ringe, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Hemstitch sewing machine. 1,715,079; May 28.
- Eames, George M., Bridgeport, and J. C. Ringe, Stratford, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Needle-actuating mechanism for hemstitching machines. 1,721,072; July 16.
- Eames, William F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic-stop elevator system. 1,715,744; June 4.
- Eames, William F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,728,790; Sept. 17.
- Earhart, Albert C., Cleveland, Ohio. Door check or stop. 1,714,950; May 28.
- Earhart, Albert C., Cleveland, Ohio. Door check or stop. 1,716,265; June 4.
- Earl, Donald F., Melrose, Mass. Coin container. 1,703,994; Mar. 5.
- Earl, George G., New Orleans, La. Fluid system. 1,704,966; Mar. 12.
- Earl, George G., New Orleans, La. Liquid-collecting system. 1,710,048; Apr. 23.
- Earl, George G., New Orleans, La., assignor of one-third to C. A. Brown, Lorain, Ohio, and one-third to A. B. Wood, New Orleans, La. Apparatus and process of sterilizing flowing water. 1,710,301; Apr. 23.
- Earl, Harley J., assignor to General Motors Corporation, Detroit, Mich. Radiator closure. Des. 77,895; Mar. 5.
- Earl, Homer, Hastings, Nebr. Irrigation pump. 1,713,427; May 14.
- Earle, Francis. (See Spilsbury, Hugh G., assignor.)
- Earle, Ralph H. (See Nye, H. V., and Earle.)
- Earle, Ralph H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Prime-mover dynamo plant. 1,740,078; Dec. 17.
- Earles, Walter H., Hudson, Mich. Food chopper and cutter. 1,699,585; Jan. 22.
- Early, Eliza A. (See Wright, James W., assignor.)
- Earnest, Henry S., Detroit, Mich. Aspirating device. 1,712,425; May 7.
- Earnest, John E., Eustis, Fla. Sand guard for tractor wheels. 1,697,307; Jan. 1.
- Earnshaw, Joseph C., assignor to Moss Rose Manufacturing Company, Philadelphia, Pa. Textile fabric. Des. 80,219; Dec. 31.
- Easley, Philip S., Statesville, N. C. Auto headlight advertiser. 1,730,413; Oct. 8.
- Eason, Clarence M., assignor to General Motors Corporation, Detroit, Mich. Special truck. 1,713,271; May 14.
- Eason, Clarence M., and G. R. Oliver, Pontiac, assignors to General Motors Corporation, Detroit, Mich. Speedometer-drive reducer. 1,713,272; May 14.
- East, John B. (See Miller, C. C., and East.)
- East, Mose D., assignor to Z System Construction Inc., Seattle, Wash. Storage building. 1,704,429; Mar. 5.
- Eastough, Thomas. (See Turner, S., and Eastough.)
- Eastburg, Clifford L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Axle bearing. 1,732,263; Oct. 22.
- Eastern Alcohol Corporation. (See Izsak, Alexander, assignor.)
- Eastern Alcohol Corporation. (See McDermott, Frank A., assignor.)
- Eastern Expanded Metal Company. (See Sagendorph, Robert H., assignor.)
- Eastern Finishing Works. (See Adams, William H., assignor.)
- Eastern Laboratories, Inc. (See Kelley, J. E., and Jancke, assignors.)
- Eastern Machine Screw Corporation, The. (See Malcolm, Elton O., assignor.)
- Eastern Manufacturing Company. (See Callan, John G., assignor.)
- Eastern Tool & Manufacturing Company. (See Anderson, Carl E., assignor.)
- Easterwood, Henry W. (See Waggaman, W. H., and Easterwood.)
- Eastham, Daniel J., El Dorado, Kans. Pumping apparatus. 1,728,959; Sept. 24.
- Eastman, Hal P., Azusa, Calif., assignor to Owl Fumigating Corporation, New York, N. Y. Fumigating. 1,719,361; July 2.



- Eastman, Joseph P., Manitowoc, Wis. Contact for electrical heater plugs. 1,735,533; Nov. 12.
- Eastman Kodak Company. (See Beal, Carl L., assignor.)
- Eastman Kodak Company. (See Capstaff, John G., assignor.)
- Eastman Kodak Company. (See Carroll, Stewart J., assignor.)
- Eastman Kodak Company. (See Chamberlin, Benjamin D., assignor.)
- Eastman Kodak Company. (See Christie, John, assignor.)
- Eastman Kodak Company. (See Clarke, H. T. and Malm, assignors.)
- Eastman Kodak Company. (See Clarke, H. T., and Taylor, assignors.)
- Eastman Kodak Company. (See Clarke, H. T., and Waring, assignors.)
- Eastman Kodak Company. (See Favour, Paul, assignor.)
- Eastman Kodak Company. (See Flynn, Edward P., assignor.)
- Eastman Kodak Company. (See Frederick, Charles W., assignor.)
- Eastman Kodak Company. (See Fritts, Edwin C., assignor.)
- Eastman Kodak Company. (See Fritts, E. C., and Hickman, assignors.)
- Eastman Kodak Company. (See Fuerst, Carl C., assignor.)
- Eastman Kodak Company. (See Gray, Harry L., assignor.)
- Eastman Kodak Company. (See Hickman, Kenneth C., assignor.)
- Eastman Kodak Company. (See Hopkins, Roy S., assignor.)
- Eastman Kodak Company. (See Jones, John G., assignor.)
- Eastman Kodak Company. (See Lyman, Donald F., assignor.)
- Eastman Kodak Company. (See Martin, Frederick C., assignor.)
- Eastman Kodak Company. (See Ohlau, George H., assignor.)
- Eastman Kodak Company. (See Phillips, George F., assignor.)
- Eastman Kodak Company. (See Riddell, William A., assignor.)
- Eastman Kodak Company. (See Seymour, Merrill W., assignor.)
- Eastman Kodak Company. (See Sheppard, S. E., and Schmitt, assignors.)
- Eastman Kodak Company. (See Stinchfield, Ray L., assignor.)
- Eastman Kodak Company. (See Stuber, Adolph, assignor.)
- Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
- Eastman Kodak Company. (See Tierney, Philip W., assignor.)
- Eastman Kodak Company. (See Underwood, Ernest E., assignor.)
- Eastman Kodak Company. (See Wellman, Howard C., assignor.)
- Eastman Kodak Company. (See Wittel, Otto, assignor.)
- Eastman Machine Company. (See Clark, Frederick J., assignor.)
- Easton, Arthur W., Buffalo, N. Y. Combined cigarette holder and ejector. 1,721,438; July 16.
- Easton, Arthur W., Buffalo, N. Y. Attachment for fountain pens. 1,725,064; Aug. 20.
- Easton & Burnham Machine Co. (See Beachen, Albert E., assignor.)
- Easton, Glenn S., Buchanan, Mich. Refuse container. 1,736,192; Nov. 19.
- Eastwood Wire Manufacturing Company. (See Coups, Charles A., assignor.)
- Eaton, Albert N., Omaha, Nebr. Sheet-metal grain bin. 1,732,400; Oct. 22.
- Eaton Axle & Spring Company, The. (See Bell, Charles H., assignor.)
- Eaton Axle & Spring Company, The. (See Carlson, Gustav W., assignor.)
- Eaton Axle & Spring Company, The. (See Reid, James S., assignor.)
- Eaton Axle-Spring Company, The. (See Veale, George W., assignor.)
- Eaton, George, assignor to M. C. Eaton, Baltimore, Md. Electrically-heated hand-tool switch. 1,726,427; Aug. 27.
- Eaton, George, assignor to M. C. Eaton, Baltimore, Md. Switch for electrically-heated hand tools. 1,726,428; Aug. 27.
- Eaton, George M., Pittsburgh, Pa. Helical spring. 1,731,923; Oct. 15.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Railway-motor mounting. 1,697,169; Jan. 1.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamic balancing device. 1,731,922; Oct. 15.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rotary oiler. 1,737,005; Nov. 26.
- Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear. 1,739,130; Dec. 10.
- Eaton, Harold D., assignor to Bastian-Morley Co., La Porte, Ind. Heater. 1,737,834; Dec. 3.
- Eaton, Herbert N. (See Tuckerman, L. B., Eaton, and Kenlegan.)
- Eaton, Horace M., Dennis, assignor to Edmunds, Swampscott, Mass. Molded articles. 1,721,549; July 23.
- Eaton, Horace M., Lynn, assignor, by mesne assignments, to N. Edmunds, Swampscott, Mass. Impregnation and drying apparatus. 1,723,336; Aug. 6.
- Eaton, Horace M., Nahant, assignor of one-half to G. L. Preble, Lynn, Mass. Machine for casting tension upon fabrics. 1,723,924; Aug. 6.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. System of motor control. 1,724,830; Aug. 13.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Control of multispeed motors. 1,726,478; Aug. 27.
- Eaton, May C. (See Eaton, George, assignor.)
- Eaton, William E., Wakefield, Mass., assignor to Chaton Fibre Company. Dust guard. 1,700,034; Jan. 22.
- Eaton, William S., Sag Harbor, N. Y. Chromium-plating machine. 1,731,456; Oct. 15.
- Eaton, William T., assignor of one-half to W. Gambles, Wanganui, New Zealand. Clutch. 1,739,390; Dec. 10.
- Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. L. Radio receiving system. 1,711,636; May 7.
- Ebberts, John, Shoe Company. (See Ruhland, John F., assignor.)
- Ebbinghaus, Ernst, New York, N. Y. Aeroplane or similar article. Des. 80,022; Dec. 3.
- Ebel, Arthur, Neubabelsberg, Germany, assignor to General Electric Company. Electrical condenser. 1,719,879; July 9.
- Ebeling, August, Charlottenburg, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Reducing cross-talk on loaded lines. 1,719,107; July 2.
- Ebeling, Paul, New York, N. Y. Bridge element. 1,733,587; Oct. 29.
- Ebeling, William B., and C. H. Briggs, Brooklyn, assignors to Savage Arms Corporation, Utica, N. Y. Convertible washing machine. 1,700,563; Jan. 29.
- Eberhard, Boyd C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Making inner tubes. 1,712,335; May 7.
- Eberhard Manufacturing Company, The. (See Hennicke, Carl R., assignor.)
- Eberhard Manufacturing Co., The. (See Hennicke, Charles A., assignor.)
- Eberhardt, Henry J., Newark, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Trimmer mechanism. 1,715,697; June 4.
- Eberhart, Abel O., Atlanta, Ga. Dental bite method. 1,728,199; Sept. 17.
- Eberhart, Felix, Arlington, N. J., assignor to American Can Company, New York, N. Y. Box. Des. 79,325; Sept. 3.
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Can-spraying machine. 1,734,290; Nov. 5.
- Eberhart, Edgar, Orrville, Ohio. Lawn-mower sharpener. 1,715,696; June 4.
- Eberlin, Leon W. (See Sheppard, S. E., and Eberlin.)
- Eberling, Charles M., Cleveland, Ohio. Concrete mixer. 1,699,230; Jan. 15.
- Eberly, Sylvester, assignor of one-third to G. E. Kinney, one-third to K. Flensted, and one-third to E. M. Jamison, Toledo, Ohio. Truck mounting. 1,709,845; Apr. 23.
- Ebers, Karl, Ahrensburg, Holstein, Germany. Bleaching raw heavy spar. 1,709,612; Apr. 16.
- Eberspächer, Paul, Esslingen-on-the-Neckar, Germany. Traffic signal. 1,724,647; Aug. 13.
- Ebert, Charles, Leonia, N. J., W. B. Newkirk, Riverside, Ill., and M. Moskowitz, Spring Valley, N. Y., assignors to International Patents Development Company, Wilmington, Del. Manufacture of dextrose. 1,704,037; Mar. 5.
- Ebert, Christian, and T. Becker, Elberfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of cellulose esters and conversion products therefrom. 1,701,229; Feb. 5.
- Ebert, Henry F., Woodhaven, N. Y. Brush. 1,706,058; Mar. 19.
- Ebert, Howard C., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Playing ball. 1,697,308; Jan. 1.
- Ebert, Joseph, Hillside, N. J., assignor of thirty-eight and thirty-three one-hundredths per cent to W. Payne, Wynnewood and of thirty-eight and thirty-three one-hundredths per cent to R. Anderson, Bryn Mawr, Pa. Yellow phenolphthalein and making same. 1,711,048; Apr. 30.
- Ebert, Ralf. (See Kränzlein, G., and Ebert.)
- Eberts, Edward D. (See Eberts, Edward C. and E. D., and Hooker.)
- Eberts, Edward C. and E. D., and W. L. Hooker, Jeffersonville, Ind. Apparatus for treating fruits. 1,727,967; Sept. 10.
- Ebihara, Keikichi. (See Okochi, M., and Ebihara.)
- Ebinger, D. A., Sanitary Manufacturing Company, The. (See Ebinger, David H., assignor.)
- Ebinger, D. A., Sanitary Mfg. Co., The. (See Smith, Aden E., assignor.)
- Ebinger, David H., assignor to The D. A. Ebinger Sanitary Mfg. Co., Columbus, Ohio. Water cooler. Des. 77,896; Mar. 5.



- Ebinger, David H., assignor to The D. A. Ebinger Sanitary Mfg. Co., Columbus, Ohio. Water cooler. 1,699,613; Jan. 22.
- Ebinger, David H., assignor to The D. A. Ebinger Sanitary Mfg. Co., Columbus, Ohio. Water dispenser. 1,702,560; Feb. 19.
- Ebinger, David H., assignor to The D. A. Ebinger Sanitary Manufacturing Company, Columbus, Ohio. Combined regulator and self-closing valve. 1,710,815; Apr. 30.
- Ebinger, Michael, Oakland, Calif. Furring nail. 1,732,301; Oct. 22.
- Ebling, William N., Brooklyn, N. Y. Necktie form and catch. 1,716,880; June 11.
- Eby, Eldon W., Toronto, Ontario, Canada. Holder for dental floss. 1,725,703; Aug. 20.
- Eby, Eugene D., Pittsfield, Mass., assignor to General Electric Company. Insulated cable joint. 1,723,846; Aug. 6.
- Eby, Eugene D., Pittsfield, Mass., assignor to General Electric Company. Condenser. 1,731,890; Oct. 15.
- Eby, Hugh H., Philadelphia, Pa. Binding post. 1,699,958; Jan. 22.
- Eccleston, Earle S., Los Angeles, Calif. Centrifugal separator. 1,718,547; June 25.
- Echart, Walter. (See Laughlin, John, assignor.)
- Echele, Hubert J., et al. (See Kern, Eugene E., assignor.)
- Echele, Hubert J., and E. E. Kern; said Kern assignor to W. R. Alberts, St. Louis, Mo. Display device. 1,710,973; Apr. 30.
- Echola, Arnold H., Crystal Falls, Mich. Water ski. 1,714,352; May 21.
- Eck, Herbert P. (See Steinmetz, H. G., and Eck.)
- Eckart, Carl, jr., Furth, Germany. Bronze and finiture container. 1,731,847; Oct. 15.
- Eckart, George F., South Bend, Ind., assignor to G. A. Chritton, trustee. Shockless drive. 1,712,138; May 7.
- Eckart, George F., South Bend, Ind., assignor to G. A. Chritton, trustee. Shock-cushioning drive. 1,715,124; May 28.
- Eckart, George F., assignor to G. A. Chritton, trustee, Chicago, Ill. Flexible gear drive. 1,728,401; Sept. 17.
- Eckburg, Oliver N., assignor of one-half to R. Fanelli, Amboy, Ill. Garment-sacking apparatus. 1,710,867; Apr. 30.
- Eckelbarger, Zena, Goshen, Ind. Combined phonograph and radio receiving set. 1,720,949; July 16.
- Eckener, Hugo, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Rigid airship with separate gas cells. 1,724,009; Aug. 13.
- Ecker, John O., San Mateo, Fla. Headlight. 1,699,692; Jan. 22.
- Ecker, John O., San Mateo, Fla. Inflation device for pneumatic tires. 1,736,258; Nov. 19.
- Ecker, Murray. (See L'Enfant, Charles, assignor.)
- Eckermann, Ragnar, Stockholm, Sweden. Decreasing the toxic action of cocaine. 1,733,298; Oct. 29.
- Eckers, Gustav F. J., Hamburg, Germany. Container for fluid. 1,719,654; July 2.
- Eckersley, James E., Aberdeen, assignor of one-half to A. Polson, Hoquiam, Wash. Wood-cutting knife. 1,700,787; Feb. 5.
- Eckersley, James E., Aberdeen, assignor of one-half to A. Polson, Hoquiam, Wash. Knife bar. 1,700,783; Feb. 5.
- Eckersley, James E., Aberdeen, assignor of one-half to A. Polson, Hoquiam, Wash. Multiple-groover machine. 1,708,442; Apr. 9.
- Eckert, Alfred C. (See Brecht, G. F., and Eckert.)
- Eckert, Alfred C., Pelham, and G. F. Brecht, Richmond Hill, N. Y. Slide. 1,708,470; Apr. 9.
- Eckert, Edna, Newark, N. J. Shrine. Des. 78,386; Apr. 30.
- Eckert, Edna, Newark, N. J. Shrine. Des. 78,736; June 18.
- Eckert, Edna, Newark, N. J. Shrine. Des. 79,354; Sept. 10.
- Eckert, Fritz, Essen, assignor to the firm Sendlinger Optische Glaswerke G. m. b. H., Berlin, Zehlendorf, Germany. Röntgen tube. 1,703,391; Feb. 26.
- Eckert, Grandon E., assignor to The R. Thomas & Sons Company, East Liverpool, Ohio. Insulator. 1,708,876; Apr. 9.
- Eckert, Gustav. (See Schaefer, W. H., and Eckert.)
- Eckert, Katherine M., et al. (See Endress, Lewis, assignor.)
- Eckert, Wilhelm, Höchst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. 6-amino-5-necaphthene-carboxylic acid and making same. 1,697,111; Jan. 1.
- Eckert, William A., Buffalo, N. Y. Signal-controlling mechanism for automobiles. 1,726,811; Sept. 3.
- Eckert, William F. (See Whitcomb, W. C., and Eckert.)
- Eckes, Max H., Kiel, Wis. Folding table. 1,739,449; Dec. 10.
- Eckhart Company. (See Gibson, Harry L., assignor.)
- Eckhardt, Fritz, and M. Hohnkamp, Eisenach, Germany. Pocket, cycle, and other lamp. 1,700,673; Jan. 29.
- Eckhardt, Fritz, and M. Hohnkamp, Eisenach, Germany. Electric incandescent lamp. 1,713,752; May 21.
- Eckhardt, Philip, & Co., Inc. (See Eckhardt, Philip, assignor.)
- Eckhardt, Philip, assignor to Philip Eckhardt & Co. Inc., New York, N. Y. Suitcase. 1,712,448; May 7.
- Eckhardt, Walter L., Philadelphia, Pa. Radioreproducer. 1,706,999; Mar. 26.
- Eckhard, William K. (See Graf, A. J., and Eckhard.)
- Eckland, George E., Detroit, Mich. Wrench. 1,739,715; Dec. 17.
- Eckland, Peter S., Minneapolis, Minn. Adjustable seat. 1,736,701; Nov. 19.
- Eckstein, Harry P., Weehawken, N. J. Garment. 1,737,923; Dec. 3.
- Eckstein, Henry G., jr., Chicago, Ill. Apparatus for moistureproofing packages and the like. 1,720,783; July 16.
- Eckstein, Oliver W., Oilfield, Calif. Hatrack. 1,739,955; Dec. 17.
- Eckstein, Reuben, New York, N. Y. Electric battery and making same. 1,723,727; Aug. 6.
- Eckstein, Reuben, New York, N. Y. Electric-lamp socket. 1,734,162; Nov. 5.
- Eckstein, Reuben, and M. Polis, New York, N. Y. Electric lighting device. 1,722,737; July 30.
- Eckstrand, Rudolph C., Seattle, Wash. Traffic warning device. 1,740,501; Dec. 24.
- Eclipse Air Brush Company. (See Downs, Austin H., assignor.)
- Eclipse Diffusers (Proprietary) Ltd. (See Evans, Solomon, assignor.)
- Eclipse Machine Company. (See Bijur, Joseph, assignor.)
- Eclipse Machine Company. (See Chilton, Roland, assignor.)
- Eclipse Machine Company. (See Deans, William S., assignor.)
- Eclipse Machine Company. (See Densmore, Albert A., assignor.)
- Eclipse Machine Company. (See Kindl, Carl H., assignor.)
- Eclipse Machine Company. (See Kinney, J. Stanley, assignor.)
- Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
- Eclipse Machine Company. (See Marcus, Charles, assignor.)
- Eclipse Machine Company. (See McGrath, William L., assignor.)
- Eclipse Machine Company. (See Whitney, Maurice P., assignor.)
- Eclipse Textile Devices, Inc. (See Hasbrouck, Louis B., assignor.)
- Eclipse Textile Devices Incorporated. (See Gere, Ward N., assignor.)
- Economic Machinery Company. (See Ekvall, Arvid P., assignor.)
- Economics Laboratory, Inc. (See Englund, Leonard H., assignor.)
- Economos, James N., Chicago, Ill. Refrigerator. 1,713,333; May 14.
- Economy Baler Company. (See MacLean, J. H., Barrows, and Langford, assignors.)
- Economy Baler Company. (See McLean, John H., assignor.)
- Economy Electric Devices Company. (See Elsom, James D., assignor.)
- Economy Engineering Company. (See Pavey, William B., assignor.)
- Economy Fuse and Manufacturing Company. (See Cherry, O. A., and Kurath, assignors.)
- Economy Fuse and Manufacturing Company. (See Cherry, Oscar A., assignor.)
- Economy Fuse & Manufacturing Co. (See Coleman, Roy E., assignor.)
- Economy Fuse and Manufacturing Company. (See Gordon, David D., assignor.)
- Economy Fuse and Manufacturing Company. (See Kurath, Franz, assignor.)
- Economy Fuse and Manufacturing Co. (See Lindsay, William, assignor.)
- Economy Glass Company. (See Dougherty, George, assignor.)
- Economy Metal Products Corporation. (See Stevenson, Frederick A., assignor.)
- Economy Oil Slot Piston Company. (See Moore, Fred M., assignor.)
- Economy Products Corporation. (See Voight, George F., assignor.)
- Economy Pump and Oil Tool Company. (See Taylor, James W., assignor.)
- Economy Screw Corporation. (See McCain, Paul H., assignor.)
- Ecurex, Antoinette, Lyon, France. Humidifying device. 1,713,377; May 14.
- Edahl, Knute, assignor to Camel Company, Chicago, Ill. Car-door structure. 1,711,142; Apr. 30.
- Eddins, Web M., Barnett, Miss. Trim saw. 1,737,362; Nov. 26.
- Eddison, William B., Irvington, N. Y. Method of and apparatus for separating liquids and solids. 1,720,211; July 9.
- Eddy, Charles F. A., New London, Conn. Signal system and direction indicator for automobiles. 1,712,554; May 14.
- Eddy, Charles H., Oswego, assignor to Delaware, Lackawanna & Western Coal Company, New York, N. Y. Coal chute. 1,733,118; Oct. 29.
- Eddy, Claire H., Cleveland, Ohio. Advertising cabinet. Des. 78,274; Aug. 16.
- Eddy, Clarence F., assignor to Proscio Oils Corporation, Norfolk, Va. Extraction. 1,721,858; July 23.



- Eddy, Edgar D. and A. W. Campbell, assignors to Eddy Seed Cleaners Limited, Toronto, Ontario, Canada. Combined washer and drier of the continuous centrifugal type. 1,704,466; Mar. 5.
- Eddy, Ernest B. (See Clinch, C. G., Rigabar, and Gibbs, assignor.)
- Eddy Seed Cleaners Limited. (See Eddy, E. D., and Campbell, assignors.)
- Eddy, William O., Los Angeles, Calif. Electrical dehydrator. 1,724,263; Aug. 13.
- Edeburn, Emmett E., Sharon, Pa. Weather seal. 1,723,270; Aug. 6.
- Edel, Harry A., South Brownsville, Pa. Ice-scoring machine. 1,707,847; Apr. 2.
- Edel, Walter L. (See Miller, E. B., and Edel.)
- Edelgussverband G. m. b. H. (See Hanemann, Heinrich, assignor.)
- Edelgussverband G. m. b. H. (See Piwowarsky, Eugen, assignor.)
- Edelman, Benjamin, New York, N. Y. Garment protector. 1,741,410; Dec. 31.
- Edelman, Irving, Brooklyn, N. Y. Advertising device. 1,700,490; Jan. 29.
- Edelman, Philip E., assignor to E. Banning, Chicago, Ill. Radio power-supply apparatus. 1,699,523; Jan. 22.
- Edelman, Philip E., assignor to E. Banning, Chicago, Ill. Power-unit relay switch. 1,712,916; May 14.
- Edelman, Philip E., Chicago, Ill. Plating and polishing electrode. 1,721,949; July 23.
- Edelman, Philip E., assignor to E. Banning, Chicago, Ill. Polarizing electrolyte. 1,730,725; Oct. 8.
- Edelman, Philip E., assignor to E. Banning, Chicago, Ill. Acoustic reproducer horn suitable for use with radio sets. 1,741,508; Dec. 31.
- Edelmann, E., & Co. (See Badell, Frank, assignor.)
- Edelmann, E., & Company. (See Edelmann, Leo, assignor.)
- Edelmann, Leo, assignor to B. Edelmann & Co., Chicago, Ill. Battery tester or the like. Des. 78,509; May 14.
- Edelmann, Leo, assignor to E. Edelmann & Company, Chicago, Ill. Grease gun. 1,705,443; Mar. 12.
- Edelmann, Robert, New York, N. Y. Signal device. 1,741,687; Dec. 31.
- Edelmuth, Willy, New York, N. Y. Reenforced bottle. 1,720,888; July 16.
- Edelson, Charles Z. (See Goldeen, J., Edelson, and Tarlow.)
- Edelson, Charles Z., J. Goldeen, and M. D. Tarlow. Portland, Oreg. Mattress. Re17,286; Apr. 30.
- Edelson, Sigmond. (See Pirrone, Antonio L. M., assignor.)
- Eden, James A., jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Bolt centering, facing, and pointing machine. 1,720,784; July 16.
- Edenharder, Eugene E. and J. B. assignors of one-third to H. Edenharder, West Allis, Wis. Bottle-washing attachment. 1,726,949; Sept. 3.
- Edenharder, Helen. (See Edenharder, Eugene E. and J. B., assignors.)
- Edenharder, Jacob E. (See Edenharder, Eugene E. and J. B.)
- Ederer, Lothar. (See Sanner, Hulbert, assignor.)
- Ederer, R. J., Company. (See Appleyard, Leslie L., assignor.)
- Edey, Charles E. C., Los Angeles, Calif. Automobile spring. 1,702,030; Feb. 12.
- Edgar, Frank M. (See Archer, T. P., and Edgar.)
- Edgar, Frank M. (See Fausser, F. J., and Edgar.)
- Edgar, Frank M., and T. P. Archer, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Handle assembly. 1,735,897; Nov. 19.
- Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Clutch. 1,703,101; Feb. 26.
- Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Power-actuated workholder. 1,703,102; Feb. 26.
- Edgar, John, assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Machine for grinding hobs, worms, and the like. 1,724,699; Aug. 13.
- Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Machine for relieving cutters. 1,731,481; Oct. 15.
- Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Method of and machine for relieving cutters. 1,741,759; Dec. 31.
- Edge, Dexter, Pittsburgh, Pa. Boiler. 1,717,015; June 11.
- Edge Moor Iron Company. (See Falla, Fernando, assignor.)
- Edge Moor Iron Company. (See Vennum, George C., assignor.)
- Edge Moor Iron Company. (See Wolfe, Henry G., assignor.)
- Edgemont Machine Company, The. (See Coffman, W. P., and Anglemeyer, assignors.)
- Edgerton, Arthur H., Lakewood, assignor to The White Motor Company, Cleveland, Ohio. Brake mechanism. 1,729,932; Oct. 1.
- Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Poultry car. 1,699,524; Jan. 22.
- Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Poultry car. 1,699,525; Jan. 22.
- Edgerton, Israel V., assignor to Palace Poultry Car Company, Chicago, Ill. Poultry car. 1,711,112; Apr. 30.
- Edgerton, Willard E. (See Bair, M. M., and Edgerton.)
- Edgeworth-Johnstone, Robert, London, England. Electrolytic cell. 1,738,372; Dec. 3.
- Edgren, Roy A., Chicago, Ill. Bin divider. 1,698,946; Jan. 15.
- Edgewater Steel Company. (See Bell, F. B., and Crocker, assignors.)
- Edington, Robert M., Vineland, N. J. Trap nest. 1,723,337; Aug. 6.
- Edison Botanic Research Corporation. (See Edison, Thomas A., assignor.)
- Edison Electric Appliance Company. (See Kelly, William D., assignor.)
- Edison Electric Appliance Company. (See Patterson, Walter C., assignor.)
- Edison Electric Appliance Company. (See Shroyer, Jacob L., assignor.)
- Edison Electric Appliance Company. (See Simmons, Albert H., assignor.)
- Edison, Theodore M., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Electro-mechanical translating device. 1,741,226; Dec. 31.
- Edison, Thomas A., Incorporated. (See Dunbar, Noel S., assignor.)
- Edison, Thomas A., Incorporated. (See Durand, Nelson C., assignor.)
- Edison, Thomas A., Incorporated. (See Edison, Theodore M., assignor.)
- Edison, Thomas A., Incorporated. (See Edison, Thomas A., assignor.)
- Edison, Thomas A., Incorporated. (See Luhr, Charles W., assignor.)
- Edison, Thomas A., Incorporated. (See McWilliams, William W., assignor.)
- Edison, Thomas A., Incorporated. (See Schallis, Charles A., assignor.)
- Edison, Thomas A., Llewellyn Park, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Receiving apparatus for radio and telephone circuits. 1,702,935; Feb. 19.
- Edison, Thomas A., Llewellyn Park, West Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. 1,708,692; Apr. 9.
- Edison, Thomas A., Llewellyn Park, West Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph reproducer. 1,711,265; Apr. 30.
- Edison, Thomas A., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Apparatus for producing storage-battery electrode elements. 1,723,609; Aug. 6.
- Edison, Thomas A., West Orange, assignor to Edison Botanic Research Corporation, West Orange, N. J. Extraction of rubber from plants. 1,740,079; Dec. 17.
- Edkins, Boyd, and F. G. Brown, Sydney, New South Wales, Australia. Lubricating device for internal-combustion engines. 1,732,123; Oct. 15.
- Edler, Vernon, Los Angeles, Calif. Automobile lift. 1,719,538; July 2.
- Edler, Vernon, Los Angeles, Calif. Endless-chain hook release. 1,720,785; July 16.
- Edlin, George S., and H. H. Stewart, Hamilton, New Zealand. Internal-combustion engine. 1,725,625; Aug. 20.
- Edlis, Adolph, Pittsburgh, Pa. Barber's sign. Des. 79,420; Sept. 17.
- Edlund, Alfred S. (See Sieurin, S. E., and Edlund.)
- Edlund, Henry J., Burlington, Vt. Can opener. 1,713,823; May 21.
- Edlund, Henry J., Burlington, Vt. Can opener. 1,718,125; June 18.
- Edmonds, Bradford C., Newton, Mass., assignor to American Piano Company, New York, N. Y. Grand-piano construction. 1,725,904; Aug. 27.
- Edmanson-Bock Catering Company. (See Nemeth, Stephen P.)
- Edmister, William R., assignor to The Capital Lift and Mfg. Co., Columbus, Ohio. Hoisting mechanism. 1,728,233; Sept. 17.
- Edmiston, Hugh C. (See Goddard, John V., assignor.)
- Edmiston, Hugh C. (See Harding, Thomas W., assignor.)
- Edmond, Oscar G., assignor of one-half to White Pine Sash Company, Spokane, Wash. Mortising machine. 1,723,338; Aug. 6.
- Edmonds, Courtenay H. W. (See Challis, W., and Edmonds.)
- Edmonds, John T., Fort Stockton, Tex. Ship steering and propulsion mechanism. 1,720,826; July 16.
- Edmonds, William J., Baytown, Tex., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Butyl acetic fermentation process. 1,740,162; Dec. 17.
- Edmonds, William J., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Fermentation apparatus. 1,740,163; Dec. 17.
- Edmondson, Morton H., Greenville, Tex. Traction mechanism. 1,715,745; June 4.
- Edmondson, Samuel G., St. Louis, Mo. Lamp. Des. 79,511; Oct. 1.
- Edmonston, Alvin F., Madison, Ill. Direction signal. 1,714,353; May 21.
- Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Metal-casting machine. 1,707,603; Apr. 2.
- Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Wheel mounting for mine cars. 1,708,608; Apr. 9.
- Edmunds, Howard M., Brighton, England. Guide plate for reproducing three-dimensional figures and apparatus for and process of making the same. 1,716,768; June 11.



- Edmunds, Norman. (See Eaton, Horace M., assignor.)
- Edmunds, Thomas M. (See Ostline, J. E., and Edmunds.)
- Edmondson, Lewis F., Parma, Idaho. Hay loader. 1,729,933; Oct. 1.
- Edo Aircraft Corporation. (See Korvin-Kroukovsky, Boris V., assignor.)
- Edsall, William S., Reading, assignor, by mesne assignments, to Conduit Electrical Manufacturing Corporation, Boston, Mass. Circuit interrupter. 1,697,309; Jan. 1.
- Edsall, William S., Reading, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Liquid-separating apparatus. 1,737,648; Dec. 3.
- Edsall, William S., Reading, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric circuit controller. 1,737,649; Dec. 3.
- Edson, Frank G. (See Edson, Walter S. and F. G.)
- Edson, Walter S. and F. G., Dallas, Tex.; said W. S. Edson assignor to said F. G. Edson. Heating system. 1,733,187; Oct. 29.
- Edson, William R., New York, N. Y., assignor to The Rubber Shock Insulator Corporation, Wilmington, Del. Mounting for electric conductors. 1,726,101; Aug. 27.
- Edson, William W., Newtonville, Mass., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,732,744; Oct. 22.
- Edward, Robert, Duluth, Minn. Adjustment for piano actions. 1,699,465; Jan. 15.
- Edward Valve and Manufacturing Company, The. (See Mohr, Walter W., assignor.)
- Edwards, Albert B., Ventura, assignor to J. Grant, Los Angeles, Calif. Underreamer. 1,720,950; July 16.
- Edwards and Company. (See Miller, Christian, assignor.)
- Edwards, C. D., Manufacturing Co. (See Edwards, Reid A., assignor.)
- Edwards, Charles L. T., Lebanon, Pa., assignor to Bethlehem Steel Company. Blast furnace. 1,727,100; Sept. 3.
- Edwards, Charles F., San Diego, Calif. Chair. Des. 80,076; Dec. 10.
- Edwards, Clarence G., Los Angeles, Calif. Counter-thrust-pressure motor. 1,701,322; Feb. 5.
- Edwards, Curtis H., assignor to Boyle-Dayton Co., Los Angeles, Calif. Pump. 1,713,501; May 14.
- Edwards, Curtis H., and R. L. Transtrom, assignors to The Boyle-Dayton Co., Los Angeles, Calif. Pump. 1,715,540; June 4.
- Edwards & Deutsch Lithographing Company. (See Drehmann, Oscar A., assignor.)
- Edwards, Elmer J., et al. (See Fibiger, Augustus F., assignor.)
- Edwards, Elvin L., Monroe, Wis. Subgrade machine. 1,708,264; Apr. 9.
- Edwards, Frank K., Lockland, assignor to The Nivison-Weiskopf Company, Reading, Ohio. Bottle. Des. 79,585; Oct. 15.
- Edwards, George W., Dublin, Ga. Stalk cutter. 1,715,450; June 4.
- Edwards, Gertrude E., Sable River, West, Nova Scotia, Canada. Portable and extensible propagating device. 1,738,363; Dec. 3.
- Edwards, Halley A., Akron, Ohio. Periscope for vehicles. 1,733,869; Oct. 29.
- Edwards, Harry D., Larchmont, N. Y. Refrigerating method and apparatus. 1,732,596; Oct. 22.
- Edwards, Henry J., Elyria, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio. Automatic spark and choke valve-control. 1,707,715; Apr. 2.
- Edwards, Henry J., assignor to The Willys-Overland Company, Toledo, Ohio. Coating valve sleeves. 1,727,302; Sept. 3.
- Edwards, Henry J., Elyria, and A. B. Gilbert, Toledo, assignors to The Willys-Overland Company, Toledo, Ohio. Engine balancer. 1,738,876; Dec. 10.
- Edwards, Henry J., Elyria, and A. B. Gilbert, Toledo, assignors to The Willys-Overland Company, Toledo, Ohio. Engine balancer. 1,738,877; Dec. 10.
- Edwards, Homer B., Lead, S. Dak. Clothes hanger. 1,707,221; Apr. 2.
- Edwards, James M., Waupaca, Wis., assignor of fifty per cent to J. J. Burke and S. J. Burke, Dubuque, Iowa. Glove. 1,725,065; Aug. 20.
- Edwards, Jasper G., and H. T. Holding, Cement, Okla. Adjustable brace. 1,711,725; May 7.
- Edwards, J. S. (See White, George W., assignor.)
- Edwards, John N., Decatur, Ill. Draft and exhaust regulating means. 1,700,789; Feb. 5.
- Edwards, John W., Eureka, Kans. Pipe-lifting device. 1,731,128; Oct. 8.
- Edwards, Leonard L., Longview, Wash. Rotary pump. 1,702,338; Feb. 19.
- Edwards, Moffat, Oak Hill, Ohio. Valve-operating mechanism. 1,718,222; June 25.
- Edwards, O. M., Company, The. (See Axe, Roy T., assignor.)
- Edwards, O. M., Company, The. (See Chaffee, Edward F., assignor.)
- Edwards, O. M., Company, The. (See Cronmiller, Howard A., assignor.)
- Edwards, O. M., Company, The. (See Edwards, O. M., and Cronmiller, assignors.)
- Edwards, Oliver M., and H. A. Cronmiller, assignors to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window-sash construction. 1,704,314; Mar. 5.
- Edwards, Paul G., Brooklyn, N. Y., and H. W. Herrington, Upper Montclair, N. J., assignors to American Telephone and Telegraph Company. Electrical instrument. 1,705,560; Mar. 19.
- Edwards, Paul G., Brooklyn, N. Y., and H. W. Herrington, Upper Montclair, N. J., assignors to American Telephone and Telegraph Company. Electrical testing system. 1,705,561; Mar. 19.
- Edwards, Paul G., Brooklyn, N. Y., and H. W. Herrington, Montclair, N. J., assignors to American Telephone and Telegraph Company. Cable-testing arrangement. 1,714,551; May 28.
- Edwards, Paul G., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Spring-jack connection. 1,718,280; June 25.
- Edwards, Reid A., assignor to C. D. Edwards Manufacturing Co., Albert Lea, Minn. Road grader. 1,723,019; Aug. 6.
- Edwards, Robert S., Milton, Mass., assignor to Rumford Chemical Works, Providence, R. I. Treating acidulous by-product calcium sulphate. 1,713,863; May 21.
- Edwards, Roger D., Albert Lea, Minn. Snowplow. 1,719,323; July 2.
- Edwards, Samuel M., Fargo, N. Dak. Traffic control. 1,704,595; Mar. 5.
- Edwards, Valentine W. (See Denniss, A. J., and Edwards.)
- Edwards, Van Every, Washington, D. C. Dirigible airship. 1,732,040; Oct. 15.
- Edwards, William A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel lifting and carbureting device. Re1,726,1; Apr. 9.
- Edwards, William A., Chicago, Ill. Fuel-feeding system for furnaces. 1,719,397; July 2.
- Edwards, William H. (See Niles, E. W., and Edwards.)
- Edwards, William H., Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Ringer. 1,697,057; Jan. 1.
- Edwards, William K., Big Spring, Tex. Grip tester. 1,718,413; June 25.
- Edwards, Wilson D., assignor to Turner Glass Company, Terre Haute, Ind. Jar. Des. 77,822; Feb. 26.
- Edwin, Emil, Trondhjem, Norway. Making gaseous mixtures of nitrogen and hydrogen. 1,723,772; Aug. 6.
- Efcollite Corporation. (See Von Nessen, Walter, assignor.)
- Effers, Hans A., Toledo, Ohio. Blank manufacture and machine therefor. 1,723,414; Aug. 6.
- Efficiency Tool Corporation. (See Hoover, Edward M., assignor.)
- Egan, Francis W., Woodcliff-on-Hudson, N. J., and J. O. Ross, North Tarrytown, assignors to J. O. Ross Engineering Corporation, New York, N. Y. Paper-converting machinery. 1,714,261; May 21.
- Egan, George F., Jersey City, N. J. Display device. 1,704,561; Mar. 5.
- Egan, George F., Jersey City, N. J. Display device. 1,704,562; Mar. 5.
- Egan, George F., Jersey City, N. J. Sewer construction. 1,711,674; May 7.
- Egan, George F., Jersey City, N. J. Display device. 1,719,503; July 2.
- Egan, George F., Jersey City, N. J. Display device. 1,719,504; July 2.
- Egan, George F., Jersey City, N. J. Display device. 1,719,505; July 2.
- Egan, George F., Jersey City, N. J. Display device. 1,729,249; Sept. 24.
- Egeland, Rector, Elgin, Ill. Measuring container cover. 1,705,244; Mar. 12.
- Eger, Ernst, assignor to Morgan and Wright, Detroit, Mich. Tire-testing machine. 1,713,753; May 21.
- Eger, Michael. (See Mihaly, Joseph, assignor.)
- Egersdörfer, Fritz, Charlottenburg, Germany. Atomizer for liquid fuel. 1,725,066; Aug. 20.
- Eggen, Walter N., Chicago, Ill. Adjustable connector for dental work. 1,700,124; Jan. 29.
- Eggenweiler, Charles W., and W. J. Fiegel, assignors to Bohn Aluminum and Brass Corporation, Detroit, Mich. Apparatus for coating bearings or the like. 1,735,534; Nov. 12.
- Egger, Luis G., New York, N. Y. Curtain-supporting draw cord. 1,740,974; Dec. 24.
- Eggers, Arvel H., Hoquiam, Wash. Calipers. 1,697,058; Jan. 1.
- Eggers, John, Harvey, Ill. Bathtub-supporting means. 1,712,202; May 7.
- Eggert, Gustav B. (See Hanson, J. C., and Eggert.)
- Eggert, Gustav B., Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Conveyor for discharging bins. 1,704,731; Mar. 12.
- Eggert, Gustav B., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Proportioning apparatus. 1,726,812; Sept. 3.
- Eggert, Joseph. (See Jaeger, G. and Eggert.)
- Eggert, Joseph, assignor to The Jaeger Machine Company, Columbus, Ohio. Meter for concrete-mixing machines. 1,738,045; Dec. 3.
- Eggert, William Jr., Brightwaters, N. Y. Treating cotton plants. 1,693,539; Jan. 8.
- Eggertsen, Luther E., Oakland, Calif. Combined penrack and inkstand. Des. 78,455; May 7.
- Eggleston Drilling Corporation. (See Smith, Eggleston, assignor.)
- Eggleston, Lewis W., Buffalo, assignor to American Radiator Company, New York, N. Y. Refrigerating apparatus. 1,699,513; Jan. 15.



- Eggleston, Lewis W., Buffalo, N. Y., assignor to American Radiator Company, New York, N. Y. Controlling means. 1,734,205; Nov. 5.
- Eggl, Adolf, Cologne, Germany, assignor to E. W. Schlappitz, Minneapolis, Minn. Spring structure for seat cushions. 1,716,518; June 11.
- Egli, Arnold A., Hamburg, Germany, assignor to the firm Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland. Power operator for typewriters and the like. 1,732,155; Oct. 15.
- Egli, Eduard, assignor to Maschinenfabrik Rütli Vormals Caspar Honegger, Rütli, Zurich, Switzerland. Loom frame and slay. 1,701,230; Feb. 5.
- Egli, Ernst, and R. Derrer, Rütli, assignors to Maschinenfabrik Rütli, vormals Caspar Honegger of Rütli, Zurich, Switzerland. Change-box mechanism for looms with two or more shuttles. 1,724,264; Aug. 13.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Desulphurization of mineral oils. 1,703,616; Feb. 26.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Cracking oil. 1,703,617; Feb. 26.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon-oil conversion. 1,705,181; Mar. 12.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of petroleum oils. 1,707,348; Apr. 2.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for converting hydrocarbon oil. 1,707,349; Apr. 2.
- Egloff, Gustav, Independence, Kans., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating hydrocarbons. 1,710,152; Apr. 23.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for treating emulsified oil. 1,722,041; July 23.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic cracking of hydrocarbons. 1,722,042; July 23.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbons. 1,722,043; July 23.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbons. 1,733,654; Oct. 29.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Converting petroleum. 1,741,509; Dec. 31.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Cracking oil. 1,741,510; Dec. 31.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Cracking emulsified petroleum oil. 1,703,103; Feb. 26.
- Egloff, Gustav, and H. P. Benner, Independence, Kans., assignors to Universal Oil Products Company, Chicago, Ill. Treating carbon from cracking stills. 1,705,179; Mar. 12.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Cracking hydrocarbon oils to produce light oils. 1,710,153; Apr. 23.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating emulsified oil. 1,710,154; Apr. 23.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Cooling the heating coils of an oil-cracking apparatus. 1,725,067; Aug. 20.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for pressure distilling oils. 1,729,035; Sept. 24.
- Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating oil. 1,733,655; Oct. 29.
- Egloff, Gustav, and J. C. Morrell, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oil. 1,733,656; Oct. 29.
- Egloff, Gustav, and J. C. Morrell, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic treatment of hydrocarbon oil. 1,705,180; Mar. 12.
- Egloff, Gustav, and J. C. Morrell, assignors to Universal Oil Products Company, Chicago, Ill. Process and apparatus for forming oxidation products of hydrocarbon oils. 1,710,155; Apr. 23.
- Egloff, Gustav, and J. C. Morrell, assignors to Universal Oil Products Company, Chicago, Ill. Treating cracked hydrocarbons. 1,725,068; Aug. 20.
- Egloff, Otto L., New York, N. Y. Temperature-indicating device. 1,712,653; May 14.
- Egry Register Company, The. (See Jackson, Philip A., assignor.)
- Egry Register Company, The. (See Neth, George J., assignor.)
- Egry Register Company, The. (See Pfeiffer, Frank E., assignor.)
- Egy, George C., Kansas City, Mo. Rotary pump. 1,701,103; Feb. 5.
- Egy, Willard L., assignor to W. & L. E. Gurley, Troy, N. Y. Limb for surveying instruments. 1,731,848; Oct. 15.
- Eha, Walker R., Denver, Colo. Lamp shade. 1,701,149; Feb. 5.
- Ehlers, Carl H., Penfield, assignor to The Atlantic Refining Company, Philadelphia, Pa. Combination fill, air vent, and relief coupling. 1,712,877; May 14.
- Ehlers, Carl H., Penfield, assignor to The Atlantic Refining Company, Philadelphia, Pa. Flow-detecting system. 1,737,835; Dec. 3.
- Ehlers, Edward, Montclair, N. J. Fire-escape step. 1,731,300; Oct. 15.
- Ehlers, Walther, Copenick-Berlin, Germany, assignor to General Electric Company. Manufacturing composite metal bodies. 1,698,300; Jan. 8.
- Ehlers, Walther, Copenick, and F. Falkenberg, Berlin, Germany, assignors to General Electric Company. Magnetic core and method of manufacture. 1,721,379; July 16.
- Ehlig, Harry. (See Swart, G. R., and Ehlig.)
- Ehmann, Leo, Vienna, Austria. Water replenisher and level maintainer. 1,741,982; Dec. 31.
- Ehmcke, Victor. (See Houdremont, E., and Ehmcke.)
- Ehmig, Victor, Paris, France. Flying machine. 1,719,048; July 2.
- Ehnts, Frederic H., Germantown, Pa., assignor, by mesne assignments, to H. W. Butterworth & Sons Company. Laundry apparatus. 1,711,491; May 7.
- Ehrenfeld, Ralph, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Electric motor drive for sewing machines. 1,715,698; June 4.
- Ehrenreich, Alfred, London, England. Obtaining textile fibers of high quality from the skins of fish such as, in particular, those of the Chondropterygii-Selachii. 1,713,036; May 14.
- Ehret, Conrad, Oklahoma City, Okla. Cover lock. 1,737,576; Dec. 3.
- Ehret, Cornelius D., Philadelphia, Pa. Ship-guiding method and apparatus. 1,711,879; May 7.
- Ehrhardt, John, jr., St. Louis, Mo. Building construction. 1,708,498; Apr. 9.
- Ehrhart, Charles S., Los Angeles, Calif. Endless-track attachment for trucks. 1,729,374; Sept. 24.
- Ehrhart, Eugene N., New Orleans, La., assignor to J. J. Naugle, Brooklyn, N. Y. Refining sugar. 1,731,237; Oct. 15.
- Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. Condenser. Re17,433; Sept. 17.
- Ehrhart, Raymond N., Jeannette, assignor to Elliott Company, Pittsburgh, Pa. Surface condenser. 1,700,106; Jan. 22.
- Ehrhart, Raymond N., Edgewood, assignor to Elliott Company, Pittsburgh, Pa. Heater. 1,724,916; Aug. 20.
- Ehrhart, Raymond N., Edgewood, assignor to Elliott Company, Pittsburgh, Pa. Heater. 1,728,177; Sept. 17.
- Ehrhart, William, Lancaster, Pa. Pretzel-cooking apparatus. 1,707,786; Apr. 2.
- Ehrhart, William, Lancaster, Pa. Dough-cooking apparatus. 1,737,363; Nov. 26.
- Ehrke, Louis F. (See Marden, J. W., Ulrey, and Ehrke.)
- Ehrke, Louis F. (See Ulrey, C. T., and Ehrke.)
- Ehrler, Albert, and I. Amundsen, New York, N. Y. Protective electrical connecting device. 1,717,919; June 18.
- Ehrlich, Adolf, Budapest, Hungary. Steerage of winged aircraft. 1,702,645; Feb. 19.
- Ehrlich, Jefferson, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,731,243; Oct. 15.
- Ehrlich, Rose, assignor to The Lapin Specialty Mfg. Co., Inc., New York, N. Y. Hair waver. 1,719,928; July 9.
- Ehrlicke, Max, assignor to the Firm: Rudolf Sack, Leipsic-Plagwitz, Germany. Vehicle operated lift. 1,723,686; Aug. 6.
- Ehronberg, Joseph, Brooklyn, N. Y. Support hook. 1,729,334; Sept. 24.
- Ehrsam, Frederick, Reading, Pa. Window construction. 1,715,909; June 4.
- Eibye, Carl, Boston, and H. A. Bertram, Malden, Mass. Heel-shaping machine. 1,729,250; Sept. 24.
- Eibye, Carl, Boston, and H. A. Bertram, Malden, Mass. Heel-shaping machine. 1,729,251; Sept. 24.
- Eichelberger, John C., Stockton, Calif. Automatic reel adjustment for headers. 1,729,868; Oct. 1.
- Eichenblatt, Morris, Brooklyn, N. Y. Clip. 1,740,164; Dec. 17.
- Eichenlaub, Edward S. (See Ramsey, W. G., Eichenlaub, and Barniville.)
- Eichenlaub, Raymond J., assignor to Service Steel Products Corporation, Chicago, Ill. Commodity signal. 1,727,588; Sept. 10.
- Eicher, Albert L., Canal Fulton, Ohio. Forged gear worm. 1,723,773; Aug. 6.
- Eichhorn, Gustav, Zurich, Switzerland. Apparatus for amplifying low-frequency speech currents of radio receivers. 1,735,267; Nov. 12.
- Eichler, Fritz. (See Tschunkur, E., and Eichler.)
- Eichner, Robert F., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belt buckle. Des. 77,946; Mar. 12.
- Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 78,347; Apr. 23.
- Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 78,565; May 21.
- Eichner, Robert F., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belt buckle. Des. 79,018; July 23.
- Eichwede, Heinz. (See Wagner, H., Eichwede, and Fischer.)



- Eichwede, Heinz, E. Fischer, and A. Sieglitz, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-soluble arylazodiamine dyestuffs and making same. 1,734,246; Nov. 5.
- Eick, Frederick Van N., Bedminster, N. J. Hose coupling. 1,739,131; Dec. 10.
- Eickmeyer, Carl, Brooklyn, N. Y., deceased; P. F. Eickmeyer, executrix. Steel-railroad-crossing-welding machine or jig. 1,714,906; May 28.
- Eickmeyer, Pauline F., executrix. (See Eickmeyer, Carl.)
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. 1,706,603; Mar. 26.
- Eickmeyer, Earl E., Dayton, Ohio, assignor, by mesne assignments, to Wayne Company, Fort Wayne, Ind. Liquid-dispensing apparatus. 1,715,552; June 4.
- Eickmeyer, Earl E., assignor to The Dayton Pump and Manufacturing Company, Dayton, Ohio. Liquid-dispensing apparatus. 1,716,541; June 11.
- Eickmeyer, Earl E., assignor to The National Recording Pump Company, Dayton, Ohio. Liquid-dispensing apparatus. 1,717,101; June 11.
- Eickmeyer, Earl E., assignor to The National Recording Pump Company, Dayton, Ohio. Liquid-dispensing apparatus. 1,727,053; Sept. 3.
- Eickworth, Regnier, Dortmund, Germany. Gas burner. 1,710,726; Apr. 30.
- Eidel, Thomas E., jr., Hornell, N. Y. Quick-action lock nut. 1,705,811; Mar. 19.
- Eidlbach, M. E. (See Stalmach, Frank J., assignor.)
- Eierrmann, William, Brooklyn, N. Y. Squeegee. 1,720,630; July 9.
- Eiffaender, Ludwig, Ludwigshafen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Production of 1-diazo-anthraquinone-2-carboxylic acids. 1,700,790; Feb. 5.
- Eight Wheel Motor Vehicle Company. (See Fageol, Rollie B., assignor.)
- Eight-Wheel Motor Vehicle Company. (See Smith, Horatio W., assignor.)
- Eiker, Thaddeus B., New York, N. Y. Carburetor. 1,718,735; June 25.
- Eilar, Dora E., Borger, Tex., assignor to J. E. Welton, Bowling Green, Ohio. Snuffer. 1,700,564; Jan. 29.
- Eilenberg, Theodore R., Bronx, assignor, by mesne assignments, to T. E. Murray, jr., Brooklyn, N. Y. Rack for electric conduits. 1,714,006; May 21.
- Eilers, Frank B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Mount for displaying samples of liquid. 1,708,666; Apr. 9.
- Eilers, Frank B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Liquid-dispensing apparatus. 1,727,317; Sept. 3.
- Eilersgaard, Asger. (See Sayers, W. W., and Eilersgaard.)
- Eimler, Paul, Waidmannslust, near Berlin, assignor of one-half to M. Borchardt, Berlin, Germany. Method of and apparatus for connecting the parts of fractured bones with each other. 1,717,766; June 18.
- Einhorn, Marcus, Brooklyn, N. Y., assignor to Lighting Appliance Co., Inc. Chandelier or article of analogous nature. Des. 77,947; Mar. 12.
- Einsele, George N., Cedar Lake, Ind. String-truing machine. 1,701,913; Feb. 12.
- Einson-Freeman Co. (See Einson, Leo, assignor.)
- Einson-Freeman Co. (See Einson, Morris M., assignor.)
- Einson-Freeman Co. (See Tanner, Arnold J., assignor.)
- Einson, Leo, Brooklyn, N. Y., assignor to Einson-Freeman Co., Inc. Combination packing and display container. 1,697,231; Jan. 1.
- Einson, Morris M., Yonkers, N. Y., assignor to Einson-Freeman Co., Inc. Advertising display device. 1,718,339; June 25.
- Einstein, Robert E., St. Louis, and B. B. Betts, Webster Groves, Mo. Split switch. 1,735,075; Nov. 12.
- Einstein, Sol., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,733,092; Oct. 22.
- Eirich, Joseph. (See Eirich, Ludwig and J.)
- Eirich, Ludwig and J., Hardheim, Baden, Germany. Discharging closure for mixing machines. 1,728,598; Sept. 17.
- Eirich, Ludwig and J., Hardheim, Germany. Closing means for discharge orifices. 1,737,301; Nov. 26.
- Eirring, Anthony, Irvington, N. J. Shade-pull clasp. 1,740,975; Dec. 24.
- Eisel, Vernon G., Baltimore, Md. Automatic control device for heat transfer systems. 1,736,491; Nov. 19.
- Eisele, Logan, Nashville, Tenn. Syringe and like article. 1,717,840; June 18.
- Eiseman Kaye Company. (See Kaye, Joseph M., assignor.)
- Eisenbeiss, Emil, Aarau, Switzerland. Washboiler. 1,723,339; Aug. 6.
- Eisenberg, Abraham, New York, N. Y. Ornamental and educational device. 1,728,960; Sept. 24.
- Eisenberg, William, Evansville, Ind. Milling-machine attachment. 1,719,601; July 2.
- Eisenbauer, Charles P., Dayton, Ohio. Heating, ventilating, and humidifying apparatus. 1,734,163; Nov. 5.
- Eisenbauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Forming screen plate. 1,699,693; Jan. 22.
- Eisenbauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water-softening apparatus. 1,699,836; Jan. 22.
- Eisenbauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Bearing. 1,706,776; Mar. 26.
- Eisenbauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water softener. 1,706,777; Mar. 26.
- Eisenbauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water-softening apparatus. 1,708,916; Apr. 9.
- Eisenbauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Pump. 1,713,219; May 14.
- Eisenhauser, Charles P., assignor to The Duro Company, Dayton, Ohio. Valve. 1,722,412; July 30.
- Eisenhauser, Charles P., assignor to The Duro Company, Dayton, Ohio. Compressor. 1,729,420; Sept. 24.
- Eisenhauser, Charles P., assignor to The Duro Company, Dayton, Ohio. Automatic water softener. 1,731,526; Oct. 15.
- Eisenhauser, Charles P., assignor to The Duro Company, Dayton, Ohio. Pump. 1,731,770; Oct. 15.
- Eisenhauser, Charles P., assignor to The Duro Company, Dayton, Ohio. Forming apertured plates. 1,732,880; Oct. 22.
- Eisenhauser, Charles P., assignor to The Duro Company, Dayton, Ohio. Water-softening apparatus. 1,740,540; Dec. 24.
- Eisenhut, August, Wieblingen, near Heidelberg, and A. Auerhahn, Heidelberg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of valuable organic products. 1,704,732; Mar. 12.
- Eisenhut, Ernest, assignor, by mesne assignments, to Central Ohio Steel Products Company, Galion, Ohio. Automatic dumping truck. 1,705,968; Mar. 19.
- Eisenhut, Otto, Heidelberg, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Recovery of reaction products from gases treated with electric arcs. 1,726,547; Sept. 3.
- Eisenstat, Carl E., Scranton, Pa. Bottle cooler. 1,700,218; Jan. 29.
- Eiser, Fritz, Rheinhausen-Niederrhein, Germany. Mattress for baby carriages and cribs. 1,736,341; Nov. 19.
- Eiser, George H. J., Pittsburgh, Pa. Ladle discharger. 1,742,065; Dec. 31.
- Eisermann, Rudolf, Tempelhof, near Berlin, Germany, assignor to Rich, Klinger Gesellschaft m. b. H., Gumpoldskirchen, near Vienna, Austria. Liquid-level indicator. 1,728,961; Sept. 24.
- Eisiminger, John W., and C. H. Roberts, Oklahoma City, Okla. Spring motor. 1,721,807; July 23.
- Eisinga, Dirk, Los Angeles, Calif., assignor to National Steel Construction Co., Seattle, Wash. Thermostatic control. 1,738,378; Dec. 10.
- Eisinger, Rudolf, assignor to J. Balog, Vienna, Austria. Box for the secret packing of hygienic rubber protective means or the like. 1,726,143; Aug. 27.
- Eisleb, Otto, Hofheim-on-the-Taunus, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, New York, N. Y. Alkaminesters of the ortho-aminobenzoic acids and making same. 1,704,660; Mar. 5.
- Eisler, Charles. (See Ray, Frederick, assignor.)
- Eisler, Charles, Newark, N. J. Gas burner. 1,704,359; Mar. 5.
- Eisler, Charles, Newark, N. J., assignor to Eisler Electric Corporation. Stem-making machine for radiotubes and the like. 1,741,016; Dec. 24.
- Eisler Electric Corporation. (See Eisler, Charles, assignor.)
- Eith, Rudolf, et al., executors. (See Mauser, Alfons.)
- Ekberg, Nels, St. Paul, Minn. Grabhook. 1,734,719; Nov. 5.
- Ekdahl, Alvert, deceased, Boston, Mass.; E. A. Ekdahl, administrator. Fastener for can covers. 1,699,780; Jan. 22.
- Ekdahl, Edwin A., administrator. (See Ekdahl, Albert.)
- Ekdahl, Edwin A., assignor to Amos Bird Company, Boston, Mass. Cover for cans and the like. 1,728,674; Sept. 17.
- Ekey, Mary O., West Lafayette, Ohio. Undergarment. 1,697,419; Jan. 1.
- Ekhholm, Herbert W. (See Busse, E. G., and Ekhholm.)
- Ekhholm, Herbert W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Safety loop support or hanger for bottom connecting rods. 1,724,265; Aug. 13.
- Eklind, Carl E., and W. W. Darrow, assignors to Camel Company, Chicago, Ill. Combined brace and door guide. 1,729,768; Oct. 1.
- Eklind, Carl E., and W. W. Darrow, assignors to Camel Company, Chicago, Ill. Metal car end. 1,734,247; Nov. 5.
- Eklind, Carl E., and W. W. Darrow, assignors to Camel Company, Chicago, Ill. Sliding-door fitting. 1,737,227; Nov. 26.
- Eklind, Carl E., and Kenneth J. Tobin, assignors to Camel Company, Chicago, Ill. Weatherproofing structure for car doors. 1,739,789; Dec. 17.
- Eklof, Max A., Chicago, Ill. Form-supporting device. 1,719,823; July 9.
- Eklund, Alexander, Attleboro, Mass., assignor to General Chain Company, Providence, R. I. End connector for wristbands. 1,725,786; Aug. 27.
- Eklund, George, assignor to J. F. Sturdy's Sons Company, Attleboro Falls, Mass. Bracelet-extension device. 1,701,972; Feb. 12.
- Ekman, Andrew, assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch construction. 1,712,334; May 7.



- Ekstedt, John W., Belleville, N. J., assignor to Westinghouse Lamp Company. Wire-coiling machine. 1,703,995; Mar. 5.
- Ekstrand, Ernest W., Santa Monica, assignor to Alhambra Kilns, Inc., Los Angeles, Calif. Forming roofing tile. 1,713,754; May 21.
- Ekstrom, Carlson & Co. (See Carlson, G. H., and Larson, assignor.)
- Ekström, Gunnar C., Stockholm, and B. A. E. Johnson, Appelpiken, assignors to Östergötting Enskilda Bank, Linköping, Sweden. Machine for making buttons and the like. 1,697,558; Jan. 1.
- Ekvall, Arvid P., assignor to Economic Machinery Company, Worcester, Mass. Bottle-feed mechanism. 1,726,657; Sept. 3.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Bench leg. Des. 78,275; Apr. 16.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Bench leg. Des. 78,276; Apr. 16.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Table leg. Des. 78,277; Apr. 16.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Table leg. Des. 78,278; Apr. 16.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Head for a smoking stand. Des. 78,348; Apr. 23.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Table. Des. 78,456; May 7.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Table. Des. 78,457; May 7.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Table. Des. 78,510; May 14.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Stand for smoking sets or the like. Des. 78,511; May 14.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Chair. Des. 78,737; June 18.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Leg for an article of furniture. Des. 79,644; Oct. 22.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Leg for an article of furniture. Des. 79,645; Oct. 22.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Leg for an article of furniture. Des. 79,646; Oct. 22.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Leg for an article of furniture. Des. 79,647; Oct. 22.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Stool. Des. 79,648; Oct. 22.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Stool. Des. 79,649; Oct. 22.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Smoking stand. Des. 79,793; Nov. 5.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Base for smoking stands. Des. 79,794; Nov. 5.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Head for smoking stands. Des. 80,023; Dec. 3.
- Ekvall, Edward E., Elgin, assignor to The W. H. Howell Company, Geneva, Ill. Table top. Des. 80,024; Dec. 3.
- Elam, William E., Washington, D. C. Drawing apparatus. 1,712,106; May 7.
- Eland, Reinhard W., and L. C. Miller, Peoria, Ill. Piston for gas engines. 1,713,524; May 21.
- Elbert, Benjamin F., assignor to B. L. Elbert, Des Moines, Iowa. Camper's charcoal stove. 1,701,033; Feb. 5.
- Elbert, Benjamin F., Des Moines, Iowa, assignor to B & G Specialty Company, Washington, D. C. Broiler. 1,711,778; May 7.
- Elbert, Bonnie L. (See Elbert, Benjamin F., assignor.)
- Elbert, Heinrich, Offenbach-on-the-Main, Germany. Foot-arch support. 1,707,210; Mar. 26.
- Elble, Charles W., Porterville, Calif. Combined cigarette, match, and ash receptacle. Des. 77,476; Jan. 15.
- Elbon, Nettie M., Charleston, W. Va. Trough-supporting rack. 1,735,739; Nov. 12.
- Elbon, Nettie M., Charleston, W. Va. Rack. 1,735,740; Nov. 12.
- Elco Tool and Screw Corporation. (See Englund, Carl G., assignor.)
- Elder, Robert D. (See Fisher, William H., assignor.)
- Elder, Robert F., assignor to Binocular Stereoscopic Film Company, Los Angeles, Calif. Producing colored films. 1,734,476; Nov. 5.
- Elder, Thomas W. jr., Brooklyn, assignor to American Car and Foundry Co., New York, N. Y. Pipe clamp. 1,727,701; Sept. 10.
- Eldred, Byron E., Great Neck, N. Y., assignor to RCA Photophone, Inc. Photophonographic apparatus and method. 1,734,248; Nov. 5.
- Eldred, George S., Chicago, Ill., assignor to Geo. S. Eldred Company. Liquid dispenser. 1,708,834; Apr. 9.
- Eldred, George S., Chicago, Ill., assignor, by mesne assignments, to The Bastian-Blessing Company. Liquid dispenser. 1,712,790; May 14.
- Eldred, Geo. S., Company. (See Eldred, George S., assignor.)
- Eldridge, Hilliary, deceased, Oakland, Calif., assignor, by mesne assignments, and court order, to M. K. Eldridge individually and as widow and administratrix. Electric furnace. 1,711,088; Apr. 30.
- Eldridge, Hilliary, assignor of one-sixteenth to M. E. McGhee, Oakland, one-sixteenth to M. E. Waldron, Albany, and by decree of court seven-eighths to M. K. Eldridge, widow of said Hilliary Eldridge, deceased. Producing calcium carbide and pig iron. 1,719,970; July 9.
- Eldridge, Ida M., assignor of one-half to L. R. Hoefler, Los Angeles, Calif. Manicuring device. 1,700,475; Jan. 29.
- Eldridge, Martha K., assignee and administratrix. (See Eldridge, Hilliary.)
- Eldridge, Martha K., et al. (See Eldridge, Hilliary, assignor.)
- Electracraft Corporation, The. (See Johnson, Chester W., assignor.)
- Electrad, Inc. (See Richter, Henry G., assignor.)
- Electric Alarm Company. (See Scott, Ernest E., assignor.)
- Electric Arc Cutting & Welding Company. (See Holslag, Claude J., assignor.)
- Electric Auto-Lite Company, The. (See Buchenberg, Alvin E., assignor.)
- Electric Auto-Lite Company, The. (See Gilchrist, Clarence F., assignor.)
- Electric Auto-Lite Company, The. (See Patterson, H. R., and Gilchrist, assignors.)
- Electric Boat Company. (See Spear, Lawrence Y., assignor.)
- Electric Bulletin Corporation. (See Clapp, Alman S., assignor.)
- Electric Controller & Manufacturing Company, The. (See Mayne, Robert, assignor.)
- Electric Controller & Manufacturing Company, The. (See Torkey, William R., assignor.)
- Electric Directory Corporation. (See Richardson, Thomas F., Jr., assignor.)
- Electric Dishwashers Limited. (See Clarkson, Guy S., assignor.)
- Electric Furnace Company, The. (See Cope, Frank T., assignor.)
- Electric Furnace Company, The. (See Cope, F. T., and Benzinger, assignors.)
- Electric Furnace Company. (See Cope, F. T., and Vaughan, assignors.)
- Electric Heating Corporation. (See Bowling, R. T., and Cobb, assignors.)
- Electric Holding Corporation. (See Cullerton, Patrick J., assignor.)
- Electric Holding Corporation. (See Greist, Raymond L., assignor.)
- Electric Holding Corporation. (See Young, George R., assignor.)
- Electric Household Utilities Corporation. (See Hume, John T., assignor.)
- Electric Machinery Mfg. Company. (See Hibbard, Charles T., assignor.)
- Electric Outlet Company. (See Merrill, John J., assignor.)
- Electric Outlet Company. (See White, Ernest C., assignor.)
- Electric-Pneumatic Skid Co. (See Oland, Charles D., assignor.)
- Electric Porcelain and Manufacturing Company, The. (See Rukenbrod, Cornelius J., assignor.)
- Electric Railway Equipment Company, The. (See Cawood, Clarence A., assignor.)
- Electric Railway Improvement Company, The. (See Cadwell, Charles A., assignor.)
- Electric Railway Improvement Company, The. (See Neff, Frank H., assignor.)
- Electric Rotary Machine Co. (See Minuth, Gustave W., assignor.)
- Electric Safety Razor Corporation of America, The. (See Shaler, Saul, assignor.)
- Electric Sales Service Co. (See Mulvany, Harry A., assignor.)
- Electric Service Supplies Company. (See McFarlin, John R., assignor.)
- Electric Service Supplies Company. (See Osborne, David H., assignor.)
- Electric Sign Flasher Corporation. (See Hesse, George, assignor.)
- Electric Sign Flasher Corporation. (See McCarron, Lewis H., assignor.)
- Electric Steel Foundry. (See Nourse, Walter H., assignor.)
- Electric Storage Battery Company, The. (See Breuning, Edmund, assignor.)
- Electric Storage Battery Company, The. (See Breuning, Ed., and Schneider, assignors.)
- Electric Storage Battery Company, The. (See Dunn, William E., assignor.)
- Electric Storage Battery Company, The. (See Heap, Benjamin, assignor.)
- Electric Vacuum Cleaner Company. (See Cermak, Anthony C., assignor.)
- Electric Vacuum Cleaner Company. (See Lang, Henry T., assignor.)
- Electric Vacuum Cleaner Company. (See Tuteur, Julius, assignor.)
- Electric Vapo Manufacturing Co. (See Kenney, John E., assignor.)
- Electric Vulcanizing Rubber Company, The. (See Burke, Wilbur B., assignor.)
- Electrical Engineers Equipment Co. (See Calloway, Russell T., assignor.)
- Electrical Engineers Equipment Company. (See Christensen, Christen, assignor.)



- Electrical Engineers Equipment Co. (See Farrell, Fred, assignor.)  
 Electrical Engineers Equipment Co. (See Jacobs, Ernest H., assignor.)  
 Electrical Engineers Equipment Co. (See Lotz, Alfred F. C., assignor.)  
 Electrical Engineers Equipment Company. (See Steerup, Godfrey, assignor.)  
 Electrical Improvements Limited. (See Grant, Lewis C., assignor.)  
 Electrical Improvements Limited. (See Gregory, R. W., and Grant, assignors.)  
 Electrical Research Products, Inc. (See Heller, Herman S., assignor.)  
 Electrical Research Products, Inc. (See Reynolds, J. Louis, assignor.)  
 Electro Company. (See Moxham, Arthur J., assignor.)  
 Electro Dental Manufacturing Company. (See Schramm, Adolph W., assignor.)  
 Electro Dynamic Company. (See Trudeau, John F., assignor.)  
 Electro Flushing & Manufacturing Company. (See Roth, Herman, assignor.)  
 Electro-Kold Corporation. (See Kimmel, Leonard J., assignor.)  
 Electro Manufacturing Company of America. (See Ginder, William H., assignor.)  
 Electro Metallurgical Company. (See Becket, Frederick M., assignor.)  
 Electro Metallurgical Company. (See Becket, F. M., and Read, assignors.)  
 Electro Metallurgical Company. (See Corson, Michael G., assignor.)  
 Electro Metallurgical Company. (See Dawson, Joseph R., assignor.)  
 Electro Metallurgical Company. (See Feild, Alexander L., assignor.)  
 Electro Metallurgical Company. (See Kinzel, Augustus B., assignor.)  
 Electro Metallurgical Company. (See Korsunsky, Michael G., assignor.)  
 Electro Metallurgical Company. (See Mitchell, Walter M., assignor.)  
 Electro Metallurgical Company. (See Norwood, Stanley M., assignor.)  
 Electro Metallurgical Company. (See Williams, Roger, assignor.)  
 Electro Thermal Company, The. (See Kirk, W. J., Brownlee, and Coburn, assignors.)  
 Electro Thermal Unit Company. (See Bressan, Anthony J., assignor.)  
 Electro Thermostatic Control Company. (See Sauvage, Herbert J., assignor.)  
 Electrol Incorporated. (See Scott, Lewis L., assignor.)  
 Electrol, Inc. of Missouri. (See Duemler, V. E., and Koeln, assignors.)  
 Electrol, Inc. of Missouri. (See Scott, Lewis L., assignor.)  
 Electrolock Manufacturing Company, The. (See Andrew, Frederick W., assignor.)  
 Electrolux Servel Corporation. (See Bäckström, Sigurd M., assignor.)  
 Electrolux Servel Corporation. (See Cracknell, Richard J., assignor.)  
 Electrolux Servel Corporation. (See Elfving, Thore M., assignor.)  
 Electrolux Servel Corporation. (See Lenning, Alvar, assignor.)  
 Electrolux-Servel Corporation. (See Munters, Carl G., assignor.)  
 Electrolux Servel Corporation. (See Munters, C. G., and Tandberg, assignors.)  
 Electrolux Servel. (See Tandberg, John G., assignor.)  
 Electrolux Servel Corporation. (See von Platen, B. C., and Munters, assignors.)  
 Electrolux Servel Corporation. (See von Platen, B. C., Munters, and Bäckström, assignors.)  
 Electrolux Servel Corporation. (See Wessblad, Karl A., assignor.)  
 Electromatic Manufacturing Company. (See Rogers, Charles F., assignor.)  
 Electron Corporation. (See Mackoud, Michel E., assignor.)  
 Electropure Corporation. (See Rudd, Harry B., assignor.)  
 Elektro-Hammer A. G. (See Müller, August, assignor.)  
 Elektromatik Forging Machine Corporation. (See Hoopes, Penrose R., assignor.)  
 Elektromatik Forging Machine Corporation. (See Kobert, Frank L., assignor.)  
 Elektrotechnische Fabrik Schmidt & Co. Gesellschaft m. b. H. (See Rathmann, Paul, assignor.)  
 Elektrotrennmachines Gesellschaft mit beschränkter Haftung. (See Grumpelt, Oskar, F. A. E., assignor.)  
 Elenschneider, John B., Brooklyn, N. Y., assignor to De Forest Radio Company, Jersey City, N. J. Sound-reproducing device. 1,696,941; Jan. 1.  
 Elenschneider, John B., Brooklyn, N. Y., assignor to De Forest Radio Company, Jersey City, N. J. Sound-reproducing device. 1,707,658; Apr. 2.  
 Elevator Company of America. (See Rice, Joseph, assignor.)  
 Elevator Supplies Company. (See Bassett, Cyrus W., assignor.)  
 Elevator Supplies Company. (See Beatty, William F., assignor.)  
 Elevator Supplies Company. (See Crowell, W. B., and Bassett, assignors.)  
 Elevator Supplies Company. (See Miles, William C., assignor.)  
 Elevator Supplies Company. (See Richardson, Henry F., assignor.)  
 Elevator Supplies Company. (See Shonnard, Harold W., assignor.)  
 Elevator Supplies Company. (See Shonnard, H. W., and Crowell, assignors.)  
 Elevator Supplies Company. (See Ungerer, Howard L., assignor.)  
 Elevators Supplies Company. (See Orr, Carroll E., assignor.)  
 Elfreh, William H., Westtown, Pa. Sled. 1,711,017; Apr. 30.  
 Elfving, John B., assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Adjustable spacing collar for milling cutters. 1,729,286; Sept. 24.  
 Elfverson, John H., assignor to A. V. Holm, Stockholm, Sweden. Safety envelope. 1,703,137; Feb. 26.  
 Elfving, Thore M., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,727,758; Sept. 10.  
 Elgin Butter Tub Company. (See Walstrom, Axel M., assignor.)  
 Elgin Softener Corporation. (See McGill, Chester T., assignor.)  
 Elias, G., & Bros., Inc. (See Cato, Joseph L., assignor.)  
 Elias, Justin A., Philadelphia, Pa. Cardboard container. 1,705,245; Mar. 12.  
 Elias, Max, New York, N. Y., assignor of one-half to A. L. Nebel, Cleveland Heights, Ohio. Fabrication of ornamented sheet surfacing materials. 1,738,696; Dec. 10.  
 Elias, Nathaniel M., New York, N. Y. Alkali-silicate product and making same. 1,724,185; Aug. 13.  
 Eliel, Elizabeth S. (See Eliel, Leon T., assignor.)  
 Eliel, Leon T., Los Angeles, Calif. Process of and apparatus for making aerial photographs. 1,735,109; Nov. 12.  
 Eliel, Leon T., Pasadena, Calif., assignor to E. S. Eliel. Three-plate method of and apparatus for producing maps. 1,699,136; Jan. 15.  
 Eliot, Amory V. (See Wehr, A. J., Sheeres, and Eliot.)  
 Eliot, Samuel, Manchester, Mass. Clutch. 1,741,688; Dec. 31.  
 Elshewitz, Alexander C., New York, N. Y. Imitation-straw-braid fabric for hats. Des. 77,477; Jan. 15.  
 Elshewitz, Alexander C., New York, N. Y. Braid. Des. 77,478; Jan. 15.  
 Elite Manufacturing Company. (See Burkholder, John H., assignor.)  
 Elite Manufacturing Company. (See Burkholder, J. H., and Countryman, assignors.)  
 Elite Manufacturing Company. (See Cole, Floyd F., assignor.)  
 Elite Manufacturing Company. (See Countryman, Guy A., assignor.)  
 Elite Manufacturing Company. (See Countryman, Preston E., assignor.)  
 Elk Manufacturing Company. (See Fender, Joseph N., assignor.)  
 Elk Manufacturing Company, et al. (See Lane, Fletcher, assignor.)  
 Elkin, Jacob G., New York, N. Y. Nut and bolt locking device. 1,714,711; May 28.  
 Elkin, Jacob G., New York, N. Y. Hand tool. 1,735,998; Nov. 19.  
 Elkin, Thomas W., et al. (See Philyaw, Jeff D., assignor.)  
 Elkington, James B., San Francisco, Calif. Fluid sprayer for dishwashing machines. 1,701,066; Feb. 5.  
 Elkington, Leigh A., New York, N. Y. Arm rest or guard for banjos and like musical instruments. 1,723,687; Aug. 6.  
 Elkington, Leigh A., New York, N. Y. Harmonica holder. 1,734,799; Nov. 5.  
 Elkins, Harry C., Highlands, Calif. Gas-generating assignor.)  
 Elkinson, Francis M., Milwaukee, Wis. Cabinet traffic system. 1,715,746; June 4.  
 Elkonin, Aaron, New York, N. Y. Finger ring. Des. 78,808; June 25.  
 Elksenber, Leslie J., et al. (See Traver, Philip C., assignor.)  
 Elektro-Osmose Aktiengesellschaft (Graf Schwerin Gesellschaft). (See Fejes, L., and Böttcher, assignors.)  
 Eli, Bernhard. (See Olsson, E., and Eli.)  
 Ellberg, John, New York, and M. Cronwall, Brooklyn, N. Y. Vacuum tank. 1,712,985; May 14.  
 Ellberg, John, New York, and M. Cronwall, Brooklyn, N. Y. Valve, cock, and the like. 1,741,983; Dec. 31.  
 Ellenberger, Paul G., Crane, Tex., assignor of one-half to M. A. Hardin, Norphlet, Ark. Domestic washing and cooling ventilator. 1,717,016; June 11.  
 Eller, Fritz, Berlin-Wannsee, Germany. Apparatus for printing tickets and the like. 1,715,451; June 4.  
 Ellerbrook, John, Spencer, Iowa. Bait-holding fishhook structure. 1,717,376; June 18.  
 Ellery, Arthur B., Akron, Ohio. Door-latching mechanism. 1,733,453; Oct. 29.  
 Ellery, William, San Francisco, Calif. Sleeping bag. 1,704,182; Mar. 5.  
 Ellett, Richard E., London, England. Dancing-dolls toy. Des. 77,535; Jan. 22.



- Elley, Alfred C., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Lubricant transfer for multi-compartment crank cases. 1,713,693; May 21.
- Elliott, Charles R. (See Bigge, H. C., and Elliott.)
- Ellinger, Albert E., Snyder, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table shelf. Des. 78,618; May 28.
- Ellingson, Elling, San Francisco, Calif. Mortise night latch. 1,728,263; Sept. 17.
- Elliott, Albert E., Atlanta, Ga. Mold. 1,702,253; Feb. 19.
- Elliott, William A., Jacksonville, Fla., assignor to R. G. Park, Jr., Washington, D. C. Woodworking machine. 1,733,532; Oct. 29.
- Elliott, William S., assignor to Pro-phy-lactic Brush Company, Northampton, Mass. Bristle feed for brush machines. 1,716,581; June 11.
- Elliott Addressing Machine Company. (See Saul, Waldo A., assignor.)
- Elliott, Albert B. (See Becker, E. D., and Elliott.)
- Elliott, Albert G., West Wittering, near Chichester, England. Explosion chamber of the cylinders of internal-combustion engines. 1,728,749; Sept. 17.
- Elliott, Benjamin L., Brown County, Ohio. Parachute. 1,727,279; Sept. 3.
- Elliott, Carrie E. (See Elliott, William A., assignor.)
- Elliott, Clarence V., Los Angeles, Calif. Carburetor. 1,707,350; Apr. 2.
- Elliott, Clifford R., Detroit, Mich. Water-cooling device. 1,703,392; Feb. 26.
- Elliott Company. (See Bergquist, H., and Keebler, assignors.)
- Elliott Company. (See Ehrhart, Raymond N., assignor.)
- Elliott Company. (See McDermott, John R., assignor.)
- Elliott Company. (See West, Percy, assignor.)
- Elliott Core Drilling Company. (See McQuiston, Armel F., assignor.)
- Elliott, Edwin A., Brooklyn, N. Y. Deodorizing apparatus. 1,712,816; May 14.
- Elliott, Elias L., Newmarket, N. H., assignor, by mesne assignments, to The Turner Tanning Machinery Company, Peabody, Mass. Method and apparatus for applying and treating varnish. 1,702,043; Feb. 12.
- Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
- Elliott-Fisher Company. (See Gibson, Franklin C., assignor.)
- Elliott-Fisher Company. (See Kupetz, Adolph G., assignor.)
- Elliott-Fisher Company. (See Kurowski, Alfred G. F., assignor.)
- Elliott-Fisher Company. (See Lentz, Laurence E., assignor.)
- Elliott-Fisher Company. (See Torfs, Walter E., assignor.)
- Elliott, Francis K., Los Angeles, Calif. Trigger mechanism for firearms. 1,699,881; Jan. 22.
- Elliott, Harmon P., Watertown, Mass. Stencil receiver. 1,728,200; Sept. 17.
- Elliott, Harold F., et al. (See Miller, James A., assignor.)
- Elliott, Harold F., Palo Alto, assignor of one-fourth to J. Flam, Los Angeles, Calif. Radio dial or scale. 1,699,959; Jan. 22.
- Elliott, Harold F., Palo Alto, Calif., assignor to Victor Talking Machine Company, Camden, N. J. Tuning system. 1,707,948; Apr. 2.
- Elliott, Harold F., Palo Alto, Calif., assignor, by mesne assignments, to Victor Talking Machine Company, Camden, N. J. High-frequency transformer. 1,724,399; Aug. 13.
- Elliott, Harold F., Palo Alto, Calif., assignor to Victor Talking Machine Company, Camden, N. J. Neutralizing condenser. 1,728,201; Sept. 17.
- Elliott, Harold F., Palo Alto, Calif., assignor to Victor Talking Machine Company, Camden, N. J. Radioreceiving system. 1,737,073; Nov. 26.
- Elliott, Harold F., Palo Alto, Calif., assignor to Victor Talking Machine Company, Camden, N. J. Radio signal volume control. 1,737,079; Nov. 26.
- Elliott, Harry D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Snipping machine. 1,705,605; Mar. 19.
- Elliott, Henry, Greenock, Scotland. Apparatus for holding, handling, and displaying rolls of linoleum, carpets, cloth, paper, and the like. 1,701,361; Feb. 5.
- Elliott, Irwin, assignor to Universal Oven Company, Inc., New York, N. Y. Method of and apparatus for forming pretzels and similar articles. 1,739,892; Dec. 17.
- Elliott, James M., Houston, Tex. Automatic make-up tongs. 1,713,694; May 21.
- Elliott, James R., Glendale, Calif. Butter mold. 1,708,304; Apr. 9.
- Elliott, Nelson, New Westminster, British Columbia, Canada. Cooling means for engine pistons. 1,742,028; Dec. 31.
- Elliott, Otto B., Dunedin, New Zealand. Automatic fire alarm. 1,718,857; June 25.
- Elliott, Ralph M., assignor of one-half to C. W. Lee, Minneapolis, Minn. High-chair structure. 1,724,569; Aug. 13.
- Elliott, Thomas, Birmingham, Ala., assignor to Continental Gin Company. Adjustable discharge slide for cotton feeders. 1,721,380; July 16.
- Elliott, Thomas, Birmingham, Ala., assignor to The Cincinnati Car Corporation, Cincinnati, Ohio. Rail brake for railway cars. 1,724,266; Aug. 13.
- Elliott, Thomas, Birmingham, Ala., assignor, by mesne assignments, to The Cincinnati Car Corporation, Winton Place, Ohio. Railway car. 1,729,036; Sept. 24.
- Elliott Thomas, Cincinnati, assignor to The Cincinnati Car Co., Winton Place, Ohio. Railway car. 1,696,942; Jan. 1.
- Elliott, William, assignor to Dempster Mill Manufacturing Company, Beatrice, Nebr. Draft device for implements. 1,705,358; Mar. 12.
- Elliott, William A., assignor to C. E. Elliott, Storm Lake, Iowa. Hog greaser. 1,724,345; Aug. 13.
- Elliott, William S., Pittsburgh, Pa. Method and apparatus for degasifying liquids. 1,734,515; Nov. 5.
- Elliott, William S., Soper, Okla. Guitar or similar article. Des. 77,401.
- Ellis Adding-Typewriter Company. (See Bernau, Frederick W., assignor.)
- Ellis, Alvarado L. R., Swampscott, Mass., assignor to General Electric Company. System for transmitting angular motion. 1,706,149; Mar. 19.
- Ellis, Alvarado L. R., Swampscott, Mass., assignor to General Electric Company. Gas burner. 1,721,381; July 16.
- Ellis, Arthur H., assignor of one-half to C. Graham, Rochester, Minn. Signal-controlling switch. 1,716,373; June 11.
- Ellis, Axel E., Boston, Mass., assignor to M. W. Barber, H. D. Everett, and G. Siegel, board of trustees in Saia Manufacturing Company. Thermostat. 1,735,268; Nov. 12.
- Ellis, Axel E., Long Island City, N. Y., assignor to M. W. Barber, H. D. Everett, and G. Siegel, trustees in Saia Manufacturing Company. Thermostat. 1,735,269; Nov. 12.
- Ellis, Carleton, Montclair, N. J. Lavage process and product therefor. 1,700,035; Jan. 22.
- Ellis, Carleton, Montclair, N. J. Lavage vehicle. 1,700,036; Jan. 22.
- Ellis, Carleton, Montclair, N. J. Forming a ketone-aldehyde intermediate and resinous complex. 1,716,542; June 11.
- Ellis, Carleton, Montclair, N. J. Composite resin ester and making same. 1,722,566; July 30.
- Ellis, Carleton, Montclair, N. J. Cover for bottle stoppers. 1,731,194; Oct. 8.
- Ellis, Carleton, Montclair, N. J. Stopper-protected bottle. 1,731,195; Oct. 8.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Article surfaced with nitrocellulose and synthetic resin coatings and making same. Re17,379; July 23.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Oxidizing petroleum oils. 1,697,262; Jan. 1.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Oxidizing kerosene. 1,697,263; Jan. 1.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making organic acids and other products from petroleum. 1,697,264; Jan. 1.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Oxidizing petroleum. 1,697,265; Jan. 1.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Cracking and oxidizing oils. 1,697,266; Jan. 1.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Oxidation. 1,697,267; Jan. 1.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Sulphur composition and making same. 1,699,694; Jan. 22.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Producing diacetone alcohol. 1,701,473; Feb. 5.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Submerged combustion process. 1,716,433; June 11.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Sealed container and cap therefor. 1,730,563; Oct. 8.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Heat-detecting milk and cream container. 1,730,564; Oct. 8.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Suspension composition. 1,737,006; Nov. 26.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Paper product. 1,739,580; Dec. 17.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Container and hood cap therefor. 1,739,581; Dec. 17.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Water-resistant-paper disk stopper for milk bottles and the like. 1,739,582; Dec. 17.
- Ellis, Christopher H., London, assignor to Carter-Parratt Ltd., Westminster, England. Holding device for index and like cards. 1,725,572; Aug. 20.
- Ellis, Claude, assignor of one-half to C. J. Ellis, Springfield, N. Y. Ash receiver. Re17,492; Nov. 19.
- Ellis, Claude, assignor of one-half to C. J. Ellis, Springfield, N. Y. Ash receiver. 1,701,496; Feb. 12.
- Ellis, Clayton J. (See Ellis, Claude, assignor.)
- Ellis, David O. (See Smith, F. T., and Ellis.)
- Ellis, Edwin E., Short Hills, N. J. Sintering apparatus. 1,737,007; Nov. 26.
- Ellis, Elmer C., and P. Maddox, Richmond, Va., assignors to Wine Railway Appliance Company, Toledo, Ohio. Car-door mechanism. 1,729,375; Sept. 24.



- Ellis, Forrest T., and W. E. Wilber, assignors to General Motors Corporation, Detroit, Mich. Spring bolt. 1,711,018; Apr. 30.
- Ellis-Foster Company. (See Dass, Banessvar, assignor.)
- Ellis-Foster Company. (See Ellis, Carleton, assignor.)
- Ellis-Foster Company. (See Lougovoy, Boris N., assignor.)
- Ellis-Foster Company. (See Weber, Harry M., assignor.)
- Ellis, Frank P., Glendale, Calif. Circuit breaker. 1,737,961; Dec. 3.
- Ellis, French, McAndrews, assignor of one-half to J. A. Helm, Stone, Ky. Switch. 1,734,851; Nov. 5.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Degumming. 1,709,662; Apr. 16.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of yarns and fabrics. 1,716,720; June 11.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of cellulose derivatives. 1,716,721; June 11.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Dyeing or coloring of products made with cellulose acetate. 1,719,324; July 2.
- Ellis, George H., Spondon near Derby, England, assignor to Celanese Corporation of America. Treatment of cellulose acetate. 1,723,230; Aug. 6.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of cellulose derivatives. 1,723,271; Aug. 6.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Coloring of products comprising cellulose acetate. 1,740,890; Dec. 24.
- Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Coloring of products comprising cellulose acetate. 1,740,891; Dec. 24.
- Ellis, George H., St. Paul, Minn. Impervious paperboard and making the same. 1,717,878; June 18.
- Ellis, George H., assignor to The Insulte Company, Minneapolis, Minn. Building construction. 1,725,787; Aug. 27.
- Ellis, Harry E., Elkhorn, Wis. Cutter head for pumps. 1,713,037; May 14.
- Ellis, Hubert C., Evanston, Ill. Reversible driving mechanism for tumblers. 1,700,125; Jan. 29.
- Ellis, Humphrey A., Philadelphia, Pa. Grate bar. 1,701,150; Feb. 5.
- Ellis, Lockwood B., assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,709,312; Apr. 16.
- Ellis, Lockwood B., assignor to General Motors Corporation, Detroit, Mich. Crank-case ventilating system. 1,734,007; Oct. 29.
- Ellis, Lockwood B., assignor to General Motors Corporation, Detroit, Mich. Notched-face piston ring. 1,737,302; Nov. 26.
- Ellis, Oscar A., Lincoln, Nebr. Minimum glare headlight. 1,726,697; Sept. 3.
- Ellis, Philip D., Dubois, Idaho. Attachment for plows. 1,738,364; Dec. 3.
- Ellis, Ralph N., assignor of one-half to T. Watters, Jr., and R. W. Colfesh, Des Moines, Iowa. Collapsible-tube top. 1,735,076; Nov. 12.
- Ellis, S. Lucile, Columbus, Kans. Costume slip. 1,700,630; Jan. 29.
- Ellis, Walter R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Conductor clamp. 1,699,781; Jan. 22.
- Ellison Bronze Company. (See Ellison, Edward H., assignor.)
- Ellison, Carl E., assignor to Aktiebolaget Manus, Norrköping, Sweden. Pulsator for suction milking machines. 1,710,089; Apr. 23.
- Ellison, Eben H., Jr. (See Dempsey, Ralph W., assignor.)
- Ellison, Edward H., Jamestown, assignor to Ellison Bronze Company, Inc., Falconer, N. Y. Gun port. 1,734,720; Nov. 5.
- Ellison, Ervin D. (See Smothers, C. J., and Ellison.)
- Ellison Kamra Company. (See Ellison, M., and McAuliffe, assignors.)
- Ellison, Michael, and E. S. McAuliffe, Los Angeles, Calif., assignors, by mesne assignments, to Ellison Kamra Company. Camera shutter. 1,727,006; Sept. 3.
- Ellison, Robert L., Williamsport, Pa. Calculator. 1,729,714; Oct. 1.
- Ellman, Louis, Pittsburgh, Pa., assignor to M. H. Detrick Company, Chicago, Ill. Soaking-pit cover. 1,736,524; Nov. 19.
- Ellsberg, Edward, Westfield, N. J. Rapid salvage system for submarines. 1,740,231; Dec. 17.
- Ellson, Bernard E., Walton-on-Thames, England. Apparatus for tipping and discharging railway cars. 1,703,766; Feb. 26.
- Ellsworth, Francis P., New York, N. Y. Power transmission for motor vehicles. 1,723,231; Aug. 6.
- Ellsworth, Ross J. (See Thompson, F. F., and Ellsworth.)
- Ellsworth, Ross J., Woodstock, Ill., assignor to Holmes Disappearing Bed Company, Bed. 1,722,413; July 30.
- Ellwanger, Ernest. (See Evans, Dennis E., assignor.)
- Ellyson, Frederick W., Munich, Germany. Generator for superheated steam. 1,704,038; Mar. 5.
- Elmen, Gustaf W., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic material. 1,715,541; June 4.
- Elmen, Gustaf W., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical coils and system employing such coils. 1,715,542; June 4.
- Elmen, Gustaf W., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic core. 1,715,543; June 4.
- Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic material and appliance. 1,715,646; June 4.
- Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic material. 1,715,647; June 4.
- Elmen, Gustaf W., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic material. 1,715,648; June 4.
- Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Heat-treating metallic conductors. 1,722,079; July 23.
- Elmen, Gustaf W., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic material and appliance. 1,739,752; Dec. 17.
- Elmendorf, Armin, Chicago, Ill. Veneer box and panel for making the same. 1,708,669; Apr. 9.
- Elmendorf, Armin, Chicago, Ill. Metal-bound box and the like. 1,712,493; May 14.
- Elmendorf, Armin, Chicago, Ill. Veneering boardlike material. 1,714,858; May 28.
- Elmendorf, Armin, Chicago, Ill. Veneering. 1,714,859; May 28.
- Elmendorf, Armin, Chicago, Ill. Insulating building material and making the same. 1,741,760; Dec. 31.
- Elmendorf, Milton W., assignor to The Pfaunder Company, Rochester, N. Y. Pipe connection for vessels. 1,734,966; Nov. 12.
- Elmendorf, Milton W., and E. B. Nichols, assignors to The Pfaunder Company, Rochester, N. Y. Transmission mechanism. 1,718,223; June 25.
- Elmira Knitting Mills. (See Bailey, Silas E., assignor.)
- Elmore, Frank E., Boxmoor, England. Separation of materials by flotation. 1,706,281; Mar. 19.
- Elms, Joseph J., and R. L. Foree, Wewoka, Okla. Joint breaker. 1,723,111; Sept. 10.
- Elmslie, George L. (See Ahlm, C. E. F., and Elmslie.)
- Elmwall, Gustave W., New York, N. Y. Rheostat. 1,706,570; Mar. 26.
- Elmwall, Gustave W., New York, N. Y. Fluid-treatment medical apparatus. 1,722,282; July 30.
- Elmwall, Gustave W., New York, N. Y. Fountain pen. 1,735,566; Nov. 12.
- Elovson, Jane, New York, N. Y. Sink pad. 1,718,126; June 18.
- El Paso Sash & Door Company. (See Trammell, Earl M., assignor.)
- Elrod, Henry E., Santa Monica, Calif. Scum-removing device. 1,700,791; Feb. 5.
- Elsaesser, Emil, Barmen-Langerfeld, and H. Kempf, Barmen, Germany, assignors, by mesne assignments, to American Bemberg Corporation. Method and apparatus for cleaning spinning devices for the manufacture of artificial threads. 1,721,591; July 23.
- Elsas, Louis J. (See Jones, Elmer M., assignor.)
- Elsässer, Robert, Berlin-Charlottenburg, Germany, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electric steering gear for ships. 1,729,869; Oct. 1.
- Else, Harry D., Springfield, Mass., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller bearing. 1,736,037; Nov. 19.
- Elsen, William. (See Loots, B. R., and Elsen.)
- Elsenhans, Albert, Essen, Germany. Rotary machine sieve of wire gauze particularly for paper machines. 1,707,757; Apr. 2.
- Elsay, Brodehurst, Indianapolis, Ind. Glove. 1,735,676; Nov. 12.
- Elsay, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Machine for bending armature conductors. 1,703,188; Feb. 26.
- Elsay, George W., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,726,548; Sept. 3.
- Elsay, George W., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Strap end attachment. 1,729,739; Oct. 1.
- Elsay, George W., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Anchoring device. 1,730,197; Oct. 1.
- Elsay, George W., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine starter. 1,739,028; Dec. 10.
- Elsay, George W., and F. H. Prescott, Anderson, Ind., assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Antitheft device. 1,722,327; July 30.
- Elsay, Walter H., Marble, assignor to The Osage Price Indicator Company, Inc., Fayetteville, Ark. Price indicator. 1,723,472; Aug. 6.
- Elsner, Oscar, Pully-Lausanne, Switzerland. Machine for applying labels and the like. 1,727,870; Sept. 10.
- Elson, James D., Evanston, assignor to Economy Electric Devices Company, Chicago, Ill. Inspection indicator. 1,736,702; Nov. 19.
- Elstone, Stanley W., Windsor, Ontario, Canada, assignor to Huron Manufacturing Co., Detroit, Mich. Washout plug and making the same. Re17,445; Oct. 1.



- Elters, William S., assignor to The Gem Metal Shield, Inc., Dayton, Ohio. Air moistener. 1,709,392; Apr. 16.
- Elters, William S., assignor to The Gem Metal Shield, Inc., Dayton, Ohio. Radiator hood. 1,734,568; Nov. 5.
- Eltinge, Orville L., Chicago, Ill. Tunnel lining. 1,702,646; Feb. 19.
- Elton, Murray S., and G. E. Barnhart, assignors to C. R. Little, Pasadena, Calif. Automatic brick-holding machine. 1,738,046; Dec. 3.
- Elwell-Parker Electric Company, The. (See Abbe, Edward J., assignor.)
- Elwood, Ward P. (See Streich, F., and Elwood.)
- Ely, Alonzo B., Groton, assignor, by mesne assignments, to L. C. Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,714,500; May 28.
- Ely, Alonzo B., Groton, assignor to L. C. Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,741,689; Dec. 31.
- Ely, Alonzo B., Groton, assignor to L. C. Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,741,690; Dec. 31.
- Ely, Alonzo B., and E. L. Harmon, Groton, assignors to L. C. Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,737,113; Nov. 26.
- Ely, Frederick W., Dormont, Pa. Sluice gate. 1,706,219; Mar. 19.
- Ely, Hiram B., Philadelphia, Pa. Acoustic horn. 1,728,480; Sept. 17.
- Ely, Howard L., Sidney, Ohio. Plow draft connection. 1,714,354; May 21.
- Ely, Leonard W. (See Manchester, R. H., and Ely.)
- Elze, Walter C., Forest Hills, assignor to Hauck Manufacturing Company, Brooklyn, N. Y. Portable elongated burner apparatus. 1,709,567; Apr. 16.
- Elzemeyer, Ernst H., deceased, and P. S. Knittel, St. Louis, Mo.; M. Elzemeyer, executrix of said Ernest H. Elzemeyer. Apparatus for mixing and feeding pulverized fuel. 1,721,439; July 16.
- Elzemeyer, Ernst H., deceased, and P. S. Knittel, St. Louis, Mo.; M. Elzemeyer, executrix of said Ernest H. Elzemeyer. Furnace. 1,721,440; July 16.
- Elzemeyer, Minnie, executrix. (See Elzemeyer, Ernst H.)
- Emanuelli, Luigi, assignor to the firm Pirelli & C., Milan, Italy. Cable for transmitting electrical energy. 1,698,050; Jan. 8.
- Emanuelli, Luigi, assignor to Società Italiana Pirelli, Milan, Italy. Joint for high-tension electric cables. 1,698,051; Jan. 8.
- Emanuelli, Luigi, assignor to Società Italiana Pirelli, Milan, Italy. Jointing, splicing, and impregnating electric cables. 1,737,650; Dec. 3.
- Embosograf Corporation of America. (See Courtenay, Frederic D., assignor.)
- Embosograf Corporation of America. (See Lewis, Alvin, assignor.)
- Embossing Company, The. (See Graham, Tom C., assignor.)
- Embossing Company, The. (See Rutherford, John, assignor.)
- Embree, Herbert, Hamilton, Ontario, Canada. Stovepipe. 1,736,492; Nov. 19.
- Em-Dee Supply Company, The. (See Gilbert, Levi L., assignor.)
- Emeloid Co., The. (See Storch, Samuel, assignor.)
- Emerson-Brantingham Corporation. (See Hendrickson, W. H., and Brantingham, assignors.)
- Emerson, Edward P. (See Hoffman, C., and Emerson.)
- Emerson Electric Mfg. Co., The. (See Conley, Brooks L., assignor.)
- Emerson Electric Mfg. Co., The. (See Janca, Joseph J., assignor.)
- Emerson Electric Manufacturing Co. (See Persons, Laurence M., assignor.)
- Emerson Electric Mfg. Co., The. (See Pfaff, Andrew J., sr., assignor.)
- Emerson Electric Mfg. Co., The. (See White, Chesterfield, assignor.)
- Emerson, Elmer R., and F. M. Dever, Wilson, Ark. Whistle. 1,703,028; Feb. 19.
- Emerson, George B., Belmont, Mass. Orthopedic manikin chart. 1,735,854; Nov. 19.
- Emerson, Ono B., Allison, Iowa. Telegraph relay and sounder. 1,737,962; Dec. 3.
- Emerson Shoe Manufacturing Company. (See Brandman, Charles, assignor.)
- Emerson, William F., Williamsville, N. Y. Cylindrical milling tool. 1,739,956; Dec. 17.
- Emery, Alfred H., Poughkeepsie, N. Y. Milk-bottle-cap remover. 1,716,688; June 11.
- Emery, Ernest L., Charleston, S. C. Collapsible-tube dispenser. 1,713,893; May 21.
- Emery, Frederic H., Wilmington, Mass. Hoisting tackle. 1,729,252; Sept. 24.
- Emery, Lloyd H., Fairfield, Me. Plug. 1,699,426; Jan. 15.
- Emery, Ralph L., Coropolis, assignor to Neville Chemical Company, Neville Island, Pa. Preparing coumaron-indene resins. 1,705,857; Mar. 19.
- Emery, Robert H., San Bernardino, Calif. Hatrack for automobiles. 1,704,886; Mar. 12.
- Emery, Roy, Brooklyn, N. Y. Releasing means for typographical machines. 1,722,370; July 30.
- Emery, Victor J., Alhambra, Calif. Hone or grinder. 1,736,114; Nov. 19.
- Emhardt, John C., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrocellulose composition. 1,737,364; Nov. 26.
- Emhoff, Maurice O., Jersey City, N. J. Dispenser. 1,729,508; Sept. 24.
- Emma, Charles, Philadelphia, Pa. Illuminated aquarium lamp. 1,723,272; Aug. 6.
- Emmer, Hans J. (See Lüttringhaus, A., Neresheimer, and Emmert.)
- Emmert, George, Corpus Christi, Tex. Valve construction controlling the operation of grease dispensers. 1,704,596; Mar. 5.
- Emmert, John R., assignor to E. J. Paidar Company, Chicago, Ill. Morgue table or similar article. Des. 79,586; Oct. 15.
- Emmert, John R., Chicago, Ill., assignor to Emil J. Paidar Co. Reclining chair. 1,698,752; Jan. 15.
- Emmert, John R., and W. Grimmich, assignors to Emil J. Paidar Co., Chicago, Ill. Placement for headrests for barber chairs. 1,740,648; Dec. 24.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Flexible bellows and manufacturing same. 1,717,196; June 11.
- Emmons, Albert F., Harmony, assignor to American Pressed Steel Company, Philadelphia, Pa. Railroad crossing. 1,731,301; Oct. 15.
- Empire Metal Products Co. Inc. (See Whitaker, Gordon T., assignor.)
- Empire Milking Machine Company. (See Oakes, Ernest C., assignor.)
- Empire Oil and Refining Company. (See Cantrall, Elmer F., assignor.)
- Empire Refineries, Inc. (See Pettingill, Henry S., jr., assignor.)
- Empson, Frederick J., Bordighera, Italy. Sound-amplifying device for telephone receivers. 1,698,583; Jan. 8.
- Emrich, Merritt L., assignor to United States Foli Co., Louisville, Ky. Display envelope. 1,712,337; May 7.
- Emco Derrick & Equipment Company. (See Gray, J. L., Gunn, and Thompson, assignors.)
- Emco Derrick & Equipment Company. (See Stevenson, Edward E., assignor.)
- Emulsion Process Corporation, The. (See Halvorsen, A. L., and Travis, assignors.)
- Emulsol Corporation, The. (See Epstein, Albert K., assignor.)
- Enamel Products Company, The. (See Allen, F. P., and Brett, assignors.)
- Enard, Hans, assignor to Heyl & Patterson, Incorporated, Pittsburgh, Pa. Hoisting apparatus. 1,732,507; Oct. 22.
- Ender, Abraham, Brooklyn, N. Y. Cigarette container. Des. 77,823; Feb. 26.
- Enderes, Ernst, Guttenberg, Iowa. Can opener. 1,699,329; Jan. 15.
- Enderson, George W., assignor of one-half to D. B. Wade, San Jose, Calif. Apparatus for water reservation. 1,711,308; Apr. 30.
- Endert, Dirk C., jr. (See Mulder, J., and Endert.)
- Endicott Johnson Corporation. (See Barnes, Walter E., assignor.)
- Endicott Johnson Corporation. (See Chrisfield, Howard E., assignor.)
- Endicott Johnson Corporation. (See Morris, Jonah W., assignor.)
- Endicott Johnson Corporation. (See Pickett, Lyman O., assignor.)
- Endicott, Solomon C., Eugene, Oreg. Receptacle closure. 1,715,452; June 4.
- Endless Belt Corporation. (See Grupe, William F., assignor.)
- Endres, Lawrence M., Waunakee, Wis. Drawbar for harrows. 1,715,063; May 28.
- Endress, Lewis, assignor of forty-two and one-half per cent to H. M. Rawl and fifteen per cent to K. M. Eckert, New Brighton, Pa. Nut lock. 1,732,881; Oct. 22.
- Endrezze, William E., Butte, Mont. Ore classifier. 1,714,007; May 21.
- Endsley, Garver H., Frankfort, Ind. Casket lamp. 1,701,447; Feb. 5.
- Endsley, James M., et al. (See Leak, William, assignor.)
- Endter, Waldemar A., Long Beach, Calif. Carton dispenser. 1,726,813; Sept. 3.
- Enerson, John, Valley City, N. Dak. Wire stretcher. 1,727,871; Sept. 10.
- Engelhard, Charles, Inc. (See Krueger, Richard H., assignor.)
- Engbrecht, Herman J., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Holder for receptacles. 1,716,037; June 4.
- Engel, Albert W., Chicago, Ill. Counter display box. 1,705,606; Mar. 19.
- Engel, Albert W., Chicago, Ill. Merchandise container. 1,705,607; Mar. 19.
- Engel, Albert W., Chicago, Ill. Envelope. 1,731,527; Oct. 15.
- Engel, Albert W., Chicago, Ill. Advertising display board. 1,741,560; Dec. 31.
- Engel, Arthur C., Haverhill, Mass. Shoe counter. 1,700,885; Feb. 5.
- Engel, Edward F., Sioux Falls, S. Dak. Luggage carrier. 1,740,232; Dec. 17.
- Engel, George, Wichita, assignor to E. P. Fox, Liberal, Kans. Clamp. 1,703,927; Mar. 5.



- Engel, Henry J., New York, N. Y. Safety-razor-blade holder. 1,707,848; Apr. 2.
- Engel, Karl, Arlington, Mass. Sole press. 1,729,769; Oct. 1.
- Engel, Maurice J., New York, N. Y. Blade holder. 1,741,924; Dec. 31.
- Engel, Stephan, Dortmund, Germany. Tub for infants and babies. 1,717,441; June 18.
- Engel, Theodore J., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound-recording system. 1,700,833; Feb. 5.
- Engelhard, Charles, Inc. (See Krueger, Richard H., assignor.)
- Engelhard, Charles, Inc. (See Newcomb, Everett S., assignor.)
- Engelhard, Charles, Inc. (See Newcomb, Ralph W., assignor.)
- Engelhardt, Alexis C., Memphis, Tenn. Fuse plug. 1,726,389; Aug. 27.
- Engelhardt, Alfred, Wiesdorf, near Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Degreasing of raw wool and other textile fibres. 1,718,548; June 25.
- Engelhardt, Elmer L., Denver, Colo. Transmission. 1,716,216; June 4.
- Engelhardt, Elmer L., Denver, Colo. Planetary transmission. 1,740,010; Dec. 17.
- Engelhardt, Victor, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Removing chlorine ions from electrolytic solutions. 1,740,165; Dec. 17.
- Engelke, Bernard L., Chicago, Ill. Atomizer. 1,731,924; Oct. 15.
- Engeln Electric Company, The. (See Horsley, C., and Goldfield, assignors.)
- Engels, Rudolf, assignor to C. H. F. Müller Röntgenröhrenfabrik, Hamburg, Germany. Fusing metallic bodies to glass and the combination of metals used in said process. 1,724,465; Aug. 13.
- Engels, William H., Rahway, N. J., assignor to Merck & Co., New York, N. Y. Quinine compound and making the same. 1,741,761; Dec. 31.
- Engelson, David H., assignor to Brooklyn Metal Stamping Corporation, Brooklyn, N. Y. Clothes-hanger support. 1,703,872; Mar. 5.
- Engers, Arnold, Rotterdam, Netherlands. Combined adjustable desk and seat. 1,731,375; Oct. 15.
- Engesser, Charles, New York, N. Y. Hand-propelled vehicle. 1,733,952; Oct. 29.
- Engestoft, Jörgen, Assens, near Mariager, Denmark. Cork-cutting machine. 1,724,997; Aug. 20.
- Engineering Products Corporation, The. (See Lufkin, John L., assignor.)
- Engl, Josef. (See Massolle, J., Vogt, and Engl.)
- Engl, Josef. (See Vogt, H., Massolle, and Engl.)
- England, Frank W., assignor to Illinois Tool Works, Chicago, Ill. Milling cutter. 1,728,264; Sept. 17.
- Englander Spring Bed Company. (See Beby, Percival P., assignor.)
- Engle, Edgar S., Greensburg, Pa. Bottle-filling machine. 1,726,479; Aug. 27.
- Engle, Edgar W. (See Miller, H. N., and Engle.)
- Engle, Edgar W., Lake Forest, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Rubber-coated conductor and making same. 1,729,160; Sept. 24.
- Engle, Edgar W., Lake Forest, and M. M. Austin, Waukegan, assignors to Fansteel Products Company, Inc., North Chicago, Ill. Tantalum-alloy pen. 1,701,299; Feb. 5.
- Engle, Edgar W., Lake Forest, and H. L. Olesen, Highland Park, assignors to Fansteel Products Company, Inc., North Chicago, Ill. Wireless receiving circuits. 1,732,041; Oct. 15.
- Engle, Frank G., New York, N. Y. Head lamp. 1,704,467; Mar. 5.
- Engle, John F., Lakewood, assignor of one-fifth to W. J. Muiholland, Cleveland, Ohio. Tire-valve dust cap. 1,711,837; May 7.
- Englehorn, Elmer H., Douglaston, N. Y. Railroad-crossing signal. Des. 79,068; July 30.
- Englen, Frederick J., and J. F. Geiler, South Side Omaha, Nebr. Bacon-skining machine. 1,714,355; May 21.
- Englisch, O. B., et al. (See Hard, Merrill W., assignor.)
- English, Analdo M., Brookline, assignor, by mesne assignments, to Pneumatic Scale Corporation, Limited, Quincy, Mass. Wrapping machine. 1,739,633; Dec. 17.
- English, Analdo M., Brookline, and H. A. Chase, Newtonville, assignors to Bay State Fishing Company, Boston, Mass. Fish-scaling machine. 1,701,667; Feb. 12.
- English, Charles P., Cleveland, Ohio. Lighting fixture. 1,719,835; July 9.
- English, Clarence C., San Francisco, and C. R. Mains, Oakland, Calif. Smoker's pipe. 1,727,028; Sept. 3.
- English Electric Company, The. (See Seewer, Paul W., assignor.)
- English, Fred S., New London, Conn. Clamping device for jackets of presses. 1,704,563; Mar. 5.
- English, Fred S., New London, Conn. Ink-regulating mechanism for extended delivery devices of printing presses. 1,724,075; Aug. 13.
- English, Fred S., New London, Conn. Cylinder-lifting mechanism for presses. 1,726,814; Sept. 3.
- English, Fred S., and R. H. Dodds, New London, Conn., assignors to The Babcock Printing Press Manufacturing Company. Sheet rack for presses. 1,699,284; Jan. 15.
- English, Gordon P., and J. H. Becker, San Francisco, Calif., assignors, by mesne assignments, to American Research and Development Company. Liquid-level indicator. 1,738,949; Dec. 10.
- English & Mersick Company, The. (See Goldsmith, B. J., and Brieche, assignors.)
- English & Mersick Company, The. (See Goldsmith, B. J., and Koeb, assignors.)
- Englund, Carl G., assignor to Elco Tool and Screw Corporation, Rockford, Ill. Making pointing tools. 1,713,076; May 14.
- Englund, Edward A., Hillsboro, Oreg. Milking machine. 1,702,468; Feb. 19.
- Englund, Leonard H., Winona, assignor to Economics Laboratory, Inc., St. Paul, Minn. Cleaning composition with a fluorescent concentration indicator. Re17,383; July 30.
- Engman, Clarence O., Mitchell, S. Dak. Plant lifter for cultivators. 1,702,537; Feb. 19.
- Engman, Frank, Milwaukee, Wis. Rotary engine. 1,713,378; May 14.
- Engstrand, Gunnar C., Brooklyn, assignor, by mesne assignments, to Salvage Process Corporation, New York, N. Y. Air lift. 1,698,127; Jan. 8.
- Engstrand, Gunnar C., Brooklyn, assignor to Salvage Process Corporation, New York, N. Y. Pumping apparatus. 1,712,694; May 14.
- Engstrand, Gunnar C., Brooklyn, assignor to Salvage Process Corporation, New York, N. Y. Pumping apparatus. 1,712,695; May 14.
- Engstrand, Gunnar C., Brooklyn, assignor to Salvage Process Corporation, New York, N. Y. Oil-pumping apparatus. 1,737,080; Nov. 26.
- Enke, Martin F., Oakland, Calif. Adjustable foot support for ladders. 1,733,338; Oct. 29.
- Enlund, Bror D., Degerfors, Sweden, assignor to H. Enlund, Binghamton, N. Y. Determining the content of foreign substances in iron and steel. 1,718,687; June 25.
- Enlund, Henning. (See Enlund, Bror D., assignor.)
- Enna, Ernst F. H., Copenhagen, Denmark. Apparatus for cutting channels in parts of footwear. 1,737,577; Dec. 3.
- Enna, Ernst F. H., Copenhagen, Denmark. Method and apparatus for uniting crude rubber and leather or other material. 1,740,580; Dec. 24.
- Ennen, Anthony J., Chicago, Ill. Safety device for rip saws. 1,735,240; Nov. 12.
- Ennis, George H., Long Beach, Calif. Dose distributor. 1,725,979; Aug. 27.
- Ennis, George P., and J. C. Walton, Sycamore, Ohio. Ignition lock switch. 1,709,008; Apr. 16.
- Enniss, Peyton H. (See Kindt, C. R., and Enniss.)
- Enock, Arthur G., Hailsham, England, assignor to Burectas Limited, London, England. Apparatus for heating, cooling, or otherwise treating liquids in bottles. 1,741,925; Dec. 31.
- Enos, Fred M., Elkhart, Ind. Reamer and blade-adjusting means therefor. 1,730,495; Oct. 8.
- Ensign Bickford Co., The. (See Mallet, Richard, assignor.)
- Ensign Carburetor Company. (See Bryan, Harry F., assignor.)
- Ensign Carburetor Company. (See Bryan, H. F., and Ensign, assignors.)
- Ensign Carburetor Company. (See Ensign, Orville H., assignor.)
- Ensign, Harmon O., Cleveland Heights, Ohio. Music supporting and turning device. 1,739,065; Dec. 10.
- Ensign, Orville H., Pasadena, assignor to Ensign Carburetor Company, Los Angeles, Calif. Carburetor. 1,721,618; July 23.
- Ensign-Reynolds, Inc. (See Reynolds, L. H. V., and Ensign, assignors.)
- Ensign, Roy F. (See Bryan, H. F., and Ensign.)
- Ensign, William B. (See Reynolds, L. H. V., and Ensign.)
- Enterprise Company, The. (See Detwiler, Homer H., assignor.)
- Enterprise Manufacturing Company, The. (See Adams, Walter L., assignor.)
- Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
- Enterprise Manufacturing Company, The. (See Pfueger, Charles T., assignor.)
- Enterprise Manufacturing Company, The. (See Pfueger, Joseph E., assignor.)
- Enterprise Manufacturing Company, The. (See Pfueger, C. T., and Koehler, assignors.)
- Enterprise Manufacturing Company of Pennsylvania. (See Brown, John W., Jr., assignor.)
- Enterprise Oil Burner Company. (See Barley, Harry, assignor.)
- Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
- Enterprise Railway Equipment Company. (See Dorey, George B., assignor.)
- Enterprise Railway Equipment Company. (See Zimmer, Albert E., assignor.)
- Entwistle, Raymond R., and W. J. Geist, Long Beach, Calif. Grip for fish tape. 1,720,037; July 9.
- Entwistle, T. C., Company. (See Sidebottom, John W., assignor.)
- Entz, Ferdinand S. (See Vroom, E., and Entz.)
- Entz, Henry M., assignor to McKenna Brass & Manufacturing Company, Pittsburgh, Pa. Bottle holder. 1,740,233; Dec. 17.



- Eos, Eric A., assignor to one-half to C. G. Bengston, Denver, Colo. Combined chair, stepladder, and ironing board. 1,719,004; July 2.
- Ephraim, Ellis R., assignor to M. S. Levy & Sons, Inc., Baltimore, Md. Straw hat. 1,740,234; Dec. 17.
- Ephron, Isidor, et al. (See Norton, John H., assignor.)
- Eppenhach, William, College Point, N. Y. Mill for homogenizing, emulsifying, and kindred operations. 1,728,178; Sept. 17.
- Eppenhach, William, College Point, assignor to United States Colloid Mill Corporation, Long Island City, N. Y. Homogenizing mill. 1,738,288; Dec. 3.
- Epperson, Frank W., Oakland, Calif. Liquid dispenser. Des. 79,187; Aug. 13.
- Epperson, Frank W., Oakland, Calif. Article of manufacture. 1,709,168; Apr. 16.
- Epperson, Frank W., Oakland, Calif. Confectionery-making apparatus. 1,734,765; Nov. 5.
- Epperson, Frank W., Oakland, Calif. Frozen confection and producing same. 1,738,879; Dec. 10.
- Eppheimer, William J., Honey Brook, Pa. Coffin spring. 1,740,581; Dec. 24.
- Epping, Vincent C., Davenport, Iowa. Automatic feeder for printing presses. 1,703,268; Feb. 26.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon the soles of shoes. 1,709,342; Apr. 16.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pneumatic suction apparatus. 1,719,174; July 2.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Indenting machine. 1,719,880; July 9.
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,720,212; July 9.
- Epps, James W. (See Baker, G. R., Epps, and Perks.)
- Epstein, Albert K., Chicago, Ill. Margarine and making same. 1,707,800; Apr. 2.
- Epstein, Albert K., Chicago, Ill. Egg product and producing the same. 1,737,365; Nov. 26.
- Epstein, Albert K., assignor to The Emulsol Corporation, Chicago, Ill. Egg product and producing the same. 1,730,879; Oct. 8.
- Epstein, Barnett, assignor to The Diary Publishing Corporation, New York, N. Y. Advertising device. 1,702,469; Feb. 19.
- Epstein, Felix, Brussels, Belgium. Mobile counterbalanced deflecting baffle. 1,715,545; June 4.
- Epstein, Harry M., New York, N. Y. Glider. 1,733,725; Oct. 29.
- Epstein, Herman. (See Adams, Arthur H., assignor.)
- Epstein, Morris H., et al. (See Walker, Horace, assignor.)
- Epstein, William C., assignor to The Duo-Tor Manufacturing Company, Dayton, Ohio. Incinerator for garbage and the like. Re17,197; Jan. 15.
- Epstein, William C., assignor to The Duo-Tor Manufacturing Company, Dayton, Ohio. Incinerator. 1,697,524; Jan. 1.
- Equipment & Supply Company. (See Gillen, George A., assignor.)
- Erb, Edmund M., Hartford, Conn., assignor to Keen Waving Company, Incorporated, New York, N. Y. Power chandelier. 1,702,228; Feb. 12.
- Erb, Lanious P., assignor to one-eighth to E. Kindt and one-eighth to D. A. Graham, Anaconda, Mont. Rotary combustion engine. 1,705,359; Mar. 12.
- Erba Aktiengesellschaft. (See Seck, Willy, assignor.)
- Erbach, Frederick R., assignor to Kelvinator Corporation, Detroit, Mich. Compressor valve. 1,737,710; Dec. 3.
- Erbele, John F., Beulah, N. Dak. Miner's face pliers. 1,732,676; Oct. 22.
- Ercanbrack, Claude M., et al. (See Krödel, Frank J., assignor.)
- Ercanbrack, John E., Chicago, Ill. Auxiliary water heater. 1,724,998; Aug. 20.
- Erege, Michael, New York, N. Y. Washerless faucet. 1,707,630; Apr. 2.
- Ercolani, Umberto. (See Koban, M., and Ercolani.)
- Erdahl, Kitty A., administratrix. (See Dahl, Tom K.)
- Erdahl, Nicholas M., assignor to Highway Trailer Company, Edgerton, Wis. Snatch block. 1,736,193; Nov. 19.
- Erdmann, Konrad, Radentheim, Austria. Method and apparatus for mixing long-fibered materials with powdery substances. 1,698,881; Jan. 15.
- Erdmann, Max W., Chicago, Ill. Plant for manufacturing water gas. 1,715,064; May 28.
- Erdmann, Otto G., assignor to G. B. Lewis Company, Watertown, Wis. Frame. 1,725,448; Aug. 20.
- Erfe, Frederick, Philadelphia, Pa. Flange-facing attachment. 1,707,716; Apr. 2.
- Erhard, Antoinette. (See Erhard, John W. and A.)
- Erhard, Gustave E., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 73,196; Apr. 9.
- Erhard, Gustave E., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 73,197; Apr. 9.
- Erhard, Gustave E., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 73,198; Apr. 9.
- Erhard, Gustave E., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 73,199; Apr. 9.
- Erhard, John W. and A., New York, N. Y. Combination comb and scissors. 1,726,390; Aug. 27.
- Erhart, Frank G. (See Maska, J. F., and Erhart.)
- Erhart, Julius, Modling, near Vienna, and F. Lemberger, and A. Hehle, Vienna, Austria. Bottle-closure device. 1,724,466; Aug. 13.
- Erich, Reuben, San Jose, Calif. Mechanical movement. 1,716,543; June 11.
- Erickson, August, Minneapolis, Minn. Furnace or stove structure. 1,709,467; Apr. 16.
- Erickson, Carl J., Los Angeles, Calif. Envelope. 1,702,401; Feb. 19.
- Erickson, Charles A., Chicago, Ill. Sales-check holder. 1,702,727; Feb. 19.
- Erickson, Charles A., Chicago, Ill. Check notcher. 1,702,728; Feb. 19.
- Erickson, Charles A., Lakewood, Ohio. Radiator core. 1,705,969; Mar. 19.
- Erickson, Cyril L., assignor to Standard Oil Company, Whiting, Ind. Orifice mixer. 1,698,432; Jan. 8.
- Erickson, Eddie, De Lamere, N. Dak. Toy. 1,716,217; June 4.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fluid-applying machine. 1,710,727; Apr. 30.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-laying machine. 1,727,589; Sept. 10.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. 1,728,179; Sept. 17.
- Erickson, Emil A., Canby, Minn. Stool for lunch counters. 1,698,784; Jan. 15.
- Erickson, Emile, Pelhamwood, assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 73,809; June 25.
- Erickson, Erick G., Alexandria, Minn. Surf board. 1,723,473; Aug. 6.
- Erickson, Frank O., St. Louis, Mo. Hat-forming dies. 1,715,228; May 28.
- Erickson, Frederic W., Larchmont, N. Y. Security lamp guard and holder. 1,711,993; May 7.
- Erickson, Frederic W., Larchmont, N. Y. Night and day stadium. 1,711,994; May 7.
- Erickson, Frederic W., Larchmont, N. Y. Threadless conduit fitting. 1,711,995; May 7.
- Erickson, Frederic W., Larchmont, N. Y. Fuse lock. 1,711,996; May 7.
- Erickson, Gustave E., Minneapolis, and S. A. Kraft; said Kraft assignor to V. Bergstedt, St. Paul Minn. Level and plumb. 1,697,592; Jan. 1.
- Erickson, Hans M., assignor to Ironwood Manufacturing Company, Ironwood, Mich. Mop holder. 1,712,878; May 14.
- Erickson, John, Minneapolis, Minn. Knife for cutting heavy materials. 1,706,918; Mar. 26.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Switching mechanism. 1,698,126; Jan. 8.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay. 1,699,782; Jan. 22.
- Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay. 1,716,357; June 4.
- Erickson, John, assignor to Automatic Electric Inc., Chicago, Ill. Electromagnetic relay. 1,727,968; Sept. 10.
- Erickson, John A., Brooklyn, N. Y. Combination penholder and inkstand. Des. 73,925; July 9.
- Erickson, John E., St. Paul, assignor to Anderson Lumber Company, Bayport, Minn. Dado-forming machine. 1,708,609; Apr. 9.
- Erickson, Knute B., Portland, Oreg. Traffic safety warning signal. 1,707,432; Apr. 2.
- Erickson, Marcus A., assignor to Strong-Scott Manufacturing Company, Minneapolis, Minn. Vehicle-dumping platform. 1,727,538; Sept. 10.
- Erickson, Oscar H., Puyallup, Wash. Internal-combustion engine. 1,724,570; Aug. 13.
- Ericson, Ernst J., New York, N. Y. Screen and portable casing therefor. 1,721,147; July 16.
- Ericson, Andrew E., and A. C. Thyberg, Brooklyn, N. Y. Device for raising an automobile wheel and holding it in its raised position. 1,706,919; Mar. 26.
- Ericson, August, Cambridge, Ill. Road-ditch-cleaning attachment for tractors. 1,721,011; July 16.
- Ericson, Charles G., Toronto, Ontario, Canada. Rail anchor. 1,722,567; July 30.
- Ericson, E. Norman, assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Cutter. 1,733,657; Oct. 29.
- Ericson, Franklin R. (See Warner, D. F., and Ericson.)
- Ericson, Fritz A., Chicago, Ill., assignor to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,719,325; July 2.
- Ericson, Raymond H. (See Parrish, L. A., Ericson, and McCracken.)
- Ericson, Richard, assignor to United States Gypsum Co., Chicago, Ill. Light-weight ceramic material and making the same. Re17,523; Dec. 17.
- Ericson, Richard, assignor to United States Gypsum Co., Chicago, Ill. Light-weight ceramic material and making the same. 1,702,076; Feb. 12.
- Ericsson, Albert, Lovdalen, Sweden. Music stand. 1,720,827; July 16.
- Ericsson, Gustaf A., et al. (See Westgaard, Juul M., assignor.)



- Ericsson, Gustaf L., Stockholm, assignor of one-half to L. E. Larsson, Upsala, Sweden. Device for opening tin cans and the like. 1,733,684; Oct. 29.
- Erie Art Metal Company. (See Knobloch, Walter H., assignor.)
- Erie City Iron Works. (See Carlson, Carl T., assignor.)
- Erie City Iron Works. (See Reese, Lemuel V., assignor.)
- Erie Foundry Company. (See Hinrod, Julian A., assignor.)
- Erie Glass Company. (See Bock, William E., assignor.)
- Erie Malleable Iron Company. (See Cox, John W., assignor.)
- Erie Malleable Iron Company. (See Dunmire, Russell P., assignor.)
- Erie Malleable Iron Company. (See Dunmire, R. P., and Kellogg, assignors.)
- Erie Malleable Iron Company. (See Kellogg, Dorsey E., assignor.)
- Erie Malleable Iron Company. (See Metcalf, George R., jr., assignor.)
- Erie Malleable Iron Company. (See Selah, Howard A., assignor.)
- Erie Malleable Iron Company. (See Swanson, Elmer J. S., assignor.)
- Erie Meter Systems, Inc. (See Carlson, Nelson A., assignor.)
- Eriksen, Charles A., Beloit, Wis. Photographic printer. 1,717,879; June 18.
- Eriksen, Erling, and A. Braastad, Oslo, Norway. Plural-row cinematographic camera. 1,713,220; May 14.
- Eriksen, James P., assignor to American Bank Note Company, New York, N. Y. Rotary printing machine. 1,733,252; Oct. 29.
- Erikson, Anders, Alexander, N. Dak. Wrench. 1,730,811; Oct. 8.
- Erikson Electric Company. (See Erikson, Leonard, assignor.)
- Erikson, Leonard, Malden, assignor to Erikson Electric Company, Boston, Mass. Lamp socket. 1,705,108; Mar. 12.
- Eriksson, Erik O. (See Ljungström, F., Broberg, and Eriksson.)
- Eriksson, Hjalmar, Skoldinge, Sweden. Machine for mixing two or more substances with each other. 1,740,166; Dec. 17.
- Eriksson, Stiko P., Mora, Sweden. Gripping tool. 1,711,467; Apr. 30.
- Erismann, John L., assignor to H. W. Caldwell & Son, Company, Chicago, Ill. Screw conveyer. 1,729,211; Sept. 24.
- Erismann, John L., Oak Park, assignor to Link-Belt Company, Chicago, Ill. Speed-reduction unit. 1,741,561; Dec. 31.
- Erismann-Giess, Benjamin. (See Erismann-Schinz, Adolphe, assignor.)
- Erismann-Schinz, Adolphe, Neuveville, Switzerland, assignor to Benjamin Erismann-Giess, Saginaw, Mich. Resilient cap-jewel setting with index disk plates for clockworks. 1,729,542; Sept. 24.
- Erkens, Paul, Düren, Germany. Multiple-wire paper machine. 1,727,162; Sept. 3.
- Ermentrout, George J., Reading, Pa. Lifting handle for railroad motor cars. 1,726,950; Sept. 3.
- Ermold, Edward, New York, N. Y. Automatic overload clutch. 1,705,047; Mar. 12.
- Ermold, Edward, New York, N. Y. Labeling machine. 1,724,700; Aug. 13.
- Ermold, Elmer A., assignor to Wirt Company, Philadelphia, Pa. Lamp fixture. 1,697,170; Jan. 1.
- Ermold, Elmer A., assignor to Wirt Company, Philadelphia, Pa. Lightning arrester. 1,704,701; Mar. 12.
- Ernemann, Alexander, Dresden, Germany. Cinematographic apparatus. 1,697,758; Jan. 1.
- Ernst, Alfred F. (See La Mont, W. D., and Ernst.)
- Ernst, Eugene C. F., Pittsburgh, Pa. Wall-paper machine. 1,725,261; Aug. 20.
- Ernst, Frank A. (See Reed, F. C., and Ernst.)
- Ernst, Frank A., Somerset, Md., and C. H. Young, Seattle, Wash., assignors to A. B. Lamb, trustee. Use of ammonia as a lubricant. 1,739,957; Dec. 17.
- Ernst, Geoffrey A., London, England. Foot-arch support. 1,709,253; Apr. 16.
- Ernst, George, Newark, N. J. Water gauge. 1,701,914; Feb. 12.
- Ernst, Hans, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Variable-displacement pump. 1,719,693; July 2.
- Ernst, Hans, and L. F. Nenninger, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Spindle oscillator. 1,731,482; Oct. 15.
- Ernst, Hans, and G. B. Williams, Alton, assignors to Western Cartridge Company, East Alton, Ill. Mechanism for feeding cartridge-shell bases. 1,700,217; Jan. 29.
- Ernst, Henry J., Newport, Ky. Drier. 1,733,785; Oct. 29.
- Ernst, John E. (See Ernst, Otto F. and J. E.)
- Ernst, Matthew, and H. B. Holthaus, Chicago, Ill. Combustion indicator. 1,728,929; Sept. 24.
- Ernst, Otto F. and J. E. Sheridan, Wyo. Saddle. 1,700,792; Feb. 5.
- Ernst, Walter, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Control mechanism for hydraulic presses. 1,711,378; Apr. 30.
- Ernst, Walter, and H. F. MacMillin, assignors to Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Laminated curb. 1,700,565; Jan. 29.
- Ernst, William. (See Bangs, E. Q., and Ernst.)
- Erola, Einar, Salem, Mass. Wall board. 1,737,413; Nov. 26.
- Errett, Charles. (See Lockwood, Marquis H., assignor.)
- Errett, Charles. (See Main, William J., assignor.)
- Erringer, James W., Chicago, Ill. Teething device. 1,731,302; Oct. 15.
- Erskine, James, Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas-range manifold lock. 1,718,640; June 25.
- Erskine, Ralph C., Stamford, Conn., assignor to Erskine-Danforth Corporation. Desk for typewriters or like machines. 1,731,096; Oct. 8.
- Erskine, Ralph W., Mishawaka, Ind., assignor to Westinghouse Electric & Manufacturing Company. Lighting standard. Des. 79,273; Aug. 20.
- Erskine, Ralph W., Mishawaka, Ind., assignor to Westinghouse Electric & Manufacturing Company. Head for lighting standards. Des. 79,650; Oct. 22.
- Erskine, Ralph W., Mishawaka, Ind., assignor to Westinghouse Electric & Manufacturing Company. Head for lighting units. Des. 79,920; Nov. 19.
- Erskine, Ralph W., Mishawaka, Ind., assignor to Westinghouse Electric & Manufacturing Company. Supporting standard. 1,712,757; May 14.
- Erskine, Ralph W., Mishawaka, Ind., assignor to Westinghouse Electric & Manufacturing Company. Two-lamp lighting unit. 1,732,745; Oct. 22.
- Erskine-Danforth Corporation. (See Erskine, Ralph C., assignor.)
- Ersland, Amos K., Manhattan, Calif. Wrench. 1,713,038; May 14.
- Ertmoed, Marten. (See Lima, M., and Ertmoed.)
- Erving Paper Mills. (See Rieg, John B., assignor.)
- Erwin, Benjamin H., Mishawaka, Ind., assignor to The Inestructo Trunk Company. Trunk lock. 1,723,020; Aug. 6.
- Erwin, Fred, Allentown, Pa., assignor to International Motor Company, New York, N. Y. Combined support for lights and baggage carriers. 1,731,407; Oct. 15.
- Erwin, Orlando R., Forest Hills, N. Y., and W. D. Witter, Roselle Park, N. J., assignors, by mesne assignments, to American La France and Foamite Corporation. Foam-system mixer connector. 1,705,608; Mar. 19.
- Erwin, Shannon A., Santa Fe Springs, assignor of one-half to E. B. Wiggins, Los Angeles, Calif. Hose coupling and nozzle connection. 1,723,273; Aug. 6.
- Esalhorst, William. (See Yeaton, George A., assignor.)
- Esau, Abraham, Berlin, Germany, assignor to Radio Corporation of America. Arrangement for eliminating disturbing oscillations. 1,708,536; Apr. 9.
- Esau, Abraham, Jena, Germany. Short-wave wireless signaling. 1,732,556; Oct. 22.
- Esau, Abraham, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Wireless receiving system. 1,732,005; Oct. 15.
- Escaich, Auguste, and J. P. Worms, Paris, France. Dyeing. 1,716,218; June 4.
- Escallier, Pierre, Lyon, France. Compass for aircraft. 1,701,034; Feb. 5.
- Esch, Herman E., Cherryvale, Kans. Fountain. Des. 77,824; Feb. 26.
- Eschenbach, Gustav W., Los Angeles, Calif. Pictorial-advertising-display apparatus. 1,728,402; Sept. 17.
- Eshbaugh, Jesse E., assignor to A C Spark Plug Company, Flint, Mich. Thermostat. 1,731,214; Oct. 8.
- Eshbaugh, Jesse E., assignor to A C Spark Plug Company, Flint, Mich. Ammeter. 1,735,919; Nov. 19.
- Eshbaugh, Jesse E., assignor to A C Spark Plug Company, Flint, Mich. Ammeter—magnetic-pointer type. 1,737,303; Nov. 26.
- Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,697,171; Jan. 1.
- Eschholz, Otto H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Disconnecting switch. 1,716,166; June 4.
- Escobales, Hilarion, Tompkinsville, N. Y., assignor, by mesne assignments, to H. B., E. L., and A. Wolf, Philadelphia, Pa., doing business as National Metal Edge Box Company. Metal stay and making the same. 1,703,522; Feb. 26.
- Escobedo, Pablo, East St. Louis, Ill. Flying machine. 1,737,963; Dec. 3.
- Escovar, Benjamin, Caracas, Venezuela. Mechanical applauder. 1,711,309; Apr. 30.
- Eshbaugh, Jesse E., and H. C. Gantz, assignors to A C Spark Plug Company, Flint, Mich. Heat indicator for internal-combustion engines. 1,717,670; June 18.
- Eshleman, Leslie, Three Rivers, Mich. Packing box. 1,720,889; July 16.
- Eskilson, Sven A., Stockholm, Sweden. Welding machine. 1,730,064; Oct. 1.
- Eskilson, Sven A., Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Traffic-signal reflector. 1,719,602; July 2.
- Eskilsson, Theodore, New York, N. Y. Automatic door-control device for elevators. 1,717,197; June 11.
- Esleck, William C., Southampton, N. Y. Glare shield and headframe therefor. 1,723,474; Aug. 6.
- Esleck, William C., Southampton, N. Y. Glare shield and attachment for eyeglasses. 1,723,475; Aug. 6.



- Esler, Augustus V., Eagle Bend, Minn. Elevator. 1,728,675; Sept. 17.
- Esmail, Elisha J., assignor to The Operators Piano Company, Inc., Chicago, Ill. Music-roll cleaner for player pianos. 1,701,772; Feb. 12.
- Esmarch, Wilhelm, Berlin-Halensee, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Arrangement for the manufacture of ozone. 1,702,254; Feb. 19.
- Esmarch, Wilhelm, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin. Treatment of hydrocarbons, especially oils, by means of corona arc discharges. 1,708,126; Apr. 9.
- Esmarch, Wilhelm, Berlin-Halensee, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. High-frequency induction furnace. 1,721,073; July 16.
- Esmarian, Mary C., Clifton, N. J. Ironing-board-cover holder. 1,708,667; Apr. 9.
- Esmond Mills, The. (See Muheim, Joseph F., assignor.)
- Esmond Mills, The. (See Stone, Melvin L., assignor.)
- Esmond, William G., Stratford, Conn., assignor to E. Ames, New York, N. Y. Steel barge structure. 1,717,499; June 18.
- Esmonde, John, New York, N. Y. Resonating dancing plate. 1,738,177; Dec. 3.
- Espenschied, Lloyd, Queens Village, N. Y., assignor to American Telephone and Telegraph Company, Phonograph recording and reproducing. 1,713,039; May 14.
- Espenschied, Lloyd, Hollis, N. Y., and G. D. Gillett, Hoboken, N. J., assignors to American Telephone and Telegraph Company. Secret-signaling system. 1,709,901; Apr. 23.
- Espenschied, Lloyd, Hollis, N. Y., and D. K. Martin, West Orange, N. J., assignor to American Telephone and Telegraph Company. Multiple-channel radioreceiver. 1,709,009; Apr. 16.
- Espenschied, Lloyd, Hollis, N. Y., R. Bown, Maplewood, and D. K. Martin, West Orange, N. J., assignors to American Telephone and Telegraph Company. Radio broadcasting system. 1,711,560; May 7.
- Espenschied, Virgil F., assignor of one-half to H. F. Schumacher and one-half to C. E. Schumacher, Hartsville, Ohio. Metal-screen-making machine. 1,714,468; May 21.
- Esping, Gustave R., Cleveland, Ohio. Lubricating compound for insulated electric wires. 1,732,882; Oct. 22.
- Espinola, Jovino A., La Vega, Dominican Republic, West Indies. Dental filling apparatus. 1,712,139; May 7.
- Esposito, Gennaro. (See Esposito, Peter and N., assignors.)
- Esposito, Nicholas. (See Esposito, Peter and N.)
- Esposito, Peter and N., assignors of one-third to G. Esposito, Chelsea, Mass. Shoe heel, ornament, and protector therefor. 1,725,509; Aug. 20.
- Essau, Abraham, Jena, Germany. Short-wave oscillator. 1,733,454; Oct. 29.
- Essbach, Gustave J., South Orange, N. J. Toothbrush. 1,705,109; Mar. 12.
- Esseff Chemische Industrie- und Handels-Aktiengesellschaft. (See Proschko, Franz, assignor.)
- Esselmann, Paul. (See Heuck, C. and Esselmann.)
- Esselmann, Paul. (See Legeler, E., and Esselmann.)
- Esseltine, Alfred B., assignor to Goodman Manufacturing Company, Chicago, Ill. Open-end scraper. 1,702,562; Feb. 19.
- Esseltine, Alfred B., assignor to Goodman Manufacturing Company, Chicago, Ill. Loading boom. 1,702,563; Feb. 19.
- Essen, Eric E., Brooklyn, N. Y. Valve-spring compressor. 1,739,391; Dec. 10.
- Esser, Gustaf F., assignor to Aktiebolaget Diskator, Stockholm, Sweden. Dishwashing apparatus. 1,697,001; Jan. 1.
- Essex, Albert, Footscray, Victoria, assignor to Mitchell & Company Proprietary Limited, Footscray West, Victoria, Australia. Power-lift plow. 1,704,468; Mar. 5.
- Essex Rubber Company. (See Hoopes, Penrose R., assignor.)
- Essex Rubber Company. (See Oakley, Clifford H., assignor.)
- Essex Rubber Company. (See Oakley, Laurence M., assignor.)
- Essex Rubber Company. (See Stimson, Edwin L., assignor.)
- Essex Specialty Co. (See Gehrig, William F., assignor.)
- Essex Specialty Co. Inc. (See Gehrig, William F., assignor.)
- Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
- Estaugh, William, Wanstead, England. Means of and apparatus for transmitting messages through submarine and like cables. 1,717,017; June 11.
- Estaugh, William, Wanstead, England. Eliminating disturbances at the ends of submarine telegraph cables. 1,730,198; Oct. 1.
- Estell, John, Elkton, S. Dak. Agricultural implement. 1,702,295; Feb. 19.
- Estelmann, Heinrich, Nuremberg-Eibach, Germany. Fastening sets of artificial teeth. 1,699,137; Jan. 15.
- Estep, Adrian C., Seattle, Wash. Muffler. 1,698,842; Jan. 15.
- Esterow, Harry, New York, N. Y. Cigar lighter. 1,737,964; Dec. 3.
- Esters, Joseph, and J. S. Huber, assignor to Harnischfeger Corporation, Milwaukee, Wis. Latch. 1,725,858; Aug. 27.
- Estes, Frederick J., Oakland, Calif. Lamp. Des. 78,998; July 16.
- Estes, Marion S. (See Crandall, I. B., and Estes.)
- Estes, Will N. (See Wernmark, Carl G., assignor.)
- Estler, Harry S. (See Davenport, R. W., and Estler.)
- Estorff, Walther, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. High-voltage insulator. 1,728,531; Sept. 17.
- Estrem, Joseph O., administrator. (See Kittelson, Helmer C.)
- Estwick, Charles F. (See Leake, R. C., and Estwick.)
- Estwick, Charles F., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,704,183; Mar. 5.
- Estwick, Charles F., assignor to General Railway Signal Company, Rochester, N. Y. Intermittent inductive A. C. train-control system. 1,706,844; Mar. 26.
- Estwick, Charles F., assignor to General Railway Signal Company, Rochester, N. Y. Continuous inductive train-control system. 1,710,657; Apr. 23.
- Estwing, Ernest O., assignor to Estwing Manufacturing Company, Inc., Rockford, Ill. Handle. 1,707,787; Apr. 2.
- Estwing Manufacturing Company. (See Estwing, Ernest O., assignor.)
- Etablissements L. Chambon. (See Corse, Gaston, assignor.)
- "Eternit" Pietra Artificiale, Societa Anonima. (See Mattei, D., and Mazza, assignors.)
- Ether, Frederick B., Richmond Hill, N. Y. Smoker's stand or similar article. Des. 77,757; Feb. 19.
- Etheredge, James C., Norwood, La. Scum eliminator. 1,709,783; Apr. 16.
- Etherington, William J., Philadelphia, Pa. Sand box. 1,725,704; Aug. 20.
- Etherton, Guy E., Los Angeles, Calif. Phonetic typewriting machine. 1,731,614; Oct. 15.
- Ethridge, Albert S., assignor to Hummel & Downing Co., Milwaukee, Wis. Caddy. 1,700,402; Jan. 29.
- Ethyl Gasoline Corporation. (See Bereslavsky, Euphime V., assignor.)
- Etienne, Joseph M., San Francisco, Calif. Refrigerating apparatus. 1,735,498; Nov. 12.
- Etkins, Harry, New York, N. Y. Combination head rod and pulley fixture for awnings. 1,735,382; Nov. 12.
- Etrych, Joseph, Detroit, Mich. Radiator shell. Des. 78,387; Apr. 30.
- Etten, Nicholas L., assignor to C. F. Nofztger, Chicago, Ill. Electrical resistance unit and manufacturing same. 1,738,141; Dec. 3.
- Etter, William. (See Donley, C. A., and Etter.)
- Etzelt, Heinrich, Dusseldorf, Germany. Lubricating pump. 1,723,544; Aug. 6.
- Eubank, William C., San Francisco, Calif. Road map. 1,697,350; Jan. 1.
- Eubanks, Thomas H., Mexia, Tex. Pitman ring. 1,710,302; Apr. 23.
- Euclid Crane and Hoist Company, The. (See Armington, A. P., and Juergens, assignors.)
- Euclid Crane & Hoist Company, The. (See Armington, Arthur P. and S. F., assignors.)
- Euclid Electric & Manufacturing Company, The. (See Rasmussen, Christian H., assignor.)
- Eugene, Ltd. (See Fischer, Jacob P., assignor.)
- Eugene, Ltd. (See Matters, Harold, assignor.)
- Eugene, Ltd. (See Suter, Eugene F., assignor.)
- Eule, Martin, Berlin-Spandau, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Device for transmitting pressure impulses. 1,735,964; Nov. 19.
- Eule, Max, assignor to A. Hartmann, Bremen, Germany. Artificial ice. 1,713,596; May 21.
- Eural Patents Limited. (See Scott, John L., assignor.)
- Eureka Fire Brick Works. (See Moore, Austin L., assignor.)
- Eureka Steel Range Company. (See Morgan, Swiney, assignor.)
- Eureka Vacuum Cleaner Company. (See Field, Egbert R., assignor.)
- Eusey, Samuel E. (See Irving, P., Lindquist, Eusey, and Mueller.)
- Eustege, Thomas P., Wellington, New Zealand. Window stay. 1,722,328; July 30.
- Eustice, Alfred L., Chicago, Ill. Holding means for electric fixtures. 1,727,368; Sept. 10.
- Eustice, Edward A., Galesburg, Ill. Lawn mower. 1,735,567; Nov. 12.
- Eustis, Frederic A., Milton, Mass. Electrolytic cell. 1,732,797; Oct. 22.
- Eustis, Frederic A., Milton, Mass. Humidifier. 1,737,008; Nov. 26.
- Euwecke, Hermann. (See Bell, J. L., and Euwecke.)
- Evangelina Iron Works, Ltd. (See Cameron, Jarrett L., assignor.)
- Evanko, John G., Pittsburgh, Pa. Gas-saving appliance. 1,697,002; Jan. 1.
- Evanove, Samuel T., Seattle, Wash. Reversible garment. 1,726,951; Sept. 3.
- Evans, Albert E., Yakima, Wash. Nest. 1,712,654; May 14.
- Evans Auto Loading Co., The. (See Evans, Edward S., assignor.)



- Evans Auto Loading Company. (See Miller, Edward, assignor.)
- Evans Auto Loading Co., The. (See Snyder, Clifford L., assignor.)
- Evans Auto Loading Co. Inc., The. (See Evans, Edward S., assignor.)
- Evans Auto Loading Co. Inc., The. (See Evans, E. S., and Snyder, assignors.)
- Evans Auto Loading Co. Inc. (See Rumely, Cornelius F., assignor.)
- Evans Auto Loading Co. Inc., The. (See Seeley, Fay L., assignor.)
- Evans Auto Loading Co. Inc., The. (See Snyder, Clifford L., assignor.)
- Evans, Benjamin A., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hole finishing method and apparatus. 1,730,650; Oct. 8.
- Evans Case Company. (See Lawrence, Cecil, H., assignor.)
- Evans, Charles, assignor to Bartlett-Collins Company, Sapulpa, Okla. Tumbler or similar article. Des. 78,566; May 21.
- Evans, Clarence T., Wauwatosa, assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Motor controller. 1,727,872; Sept. 10.
- Evans, Clarence T., Wauwatosa, assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor controller. 1,741,762; Dec. 31.
- Evans, David E., assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Shipping card for backings for artificial teeth. 1,734,032; Nov. 5.
- Evans, Dennis H., assignor of seven-twentieths to E. Ellwanger, Hobart, Okla. Hair-curling form. 1,737,152; Nov. 26.
- Evans, Earl R., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Remote metering system. 1,709,613; Apr. 16.
- Evans, Edward S., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Chock block. 1,697,310; Jan. 1.
- Evans, Edward S., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Automobile holddown. 1,711,089; Apr. 30.
- Evans, Edward S., and C. L. Snyder, assignors to The Evans Auto Loading Co. Inc., Detroit, Mich. Wheel hold down. 1,739,354; Dec. 10.
- Evans, Edwin J., Venice, Calif. Monkey wrench. 1,728,232; Sept. 17.
- Evans, Edwin R., Detroit, Mich. Front-wheel brake. 1,728,180; Sept. 17.
- Evans, Edwin R., and C. M. Tichenor, Detroit, Mich. Oil burner. 1,721,901; July 23.
- Evans, Elizabeth M., executrix. (See Rose, Thomas.)
- Evans, Ernest E., Riverside, Calif. Canvas-handling mechanism. 1,732,191; Oct. 15.
- Evans, Eugene A. (See Collier, B. C., Leriche, and Evans.)
- Evans, Francis C., Brighton, England. Apparatus for treating refuse. 1,729,572; Sept. 24.
- Evans, Franklin P., Caryville, Fla. Letter carrier's pouch. 1,738,425; Dec. 3.
- Evans, Frederick C., Milwaukee, Wis. Golf-club-shaft protector. 1,711,344; Apr. 30.
- Evans, Galen, Shelton, Nebr. Well casing and method of sinking. 1,733,953; Oct. 29.
- Evans, George C., Perth Amboy, N. J. Concrete tank construction. 1,740,011; Dec. 17.
- Evans, George, Corporation, The. (See Evans, George E. and W. F., assignors.)
- Evans, George E. and W. F., assignors to The George Evans Corporation, Moline, Ill. Heating furnace. 1,719,466; July 2.
- Evans, Harold A., assignor, by mesne assignments, to Parco Specialty Co., Lynn, Mass. Adhesive strip. 1,707,515; Apr. 2.
- Evans, Harold A., Lynn, and G. W. Jacques, New Bedford, assignors to Atlas Tack Corporation, Fairhaven, Mass. Tape-applying attachment for fastener-setting machines and severing bias tape. 1,711,561; May 7.
- Evans, Harry L., Rochester, Minn. Walker. 1,727,969; Sept. 10.
- Evans, Harry L., assignor to Cartonizing Machinery Corporation, Newport, R. I. Closing lined cartons. 1,733,583; Oct. 29.
- Evans, Harry L., and G. I. Hohl, assignors to Cartonizing Machinery Corporation, Newport, R. I. Bundle machine. 1,721,811; July 23.
- Evans, Harry W., New York, N. Y. Lock. 1,720,590; July 9.
- Evans, Henry D. (See Brown, L. T., and Evans.)
- Evans, Herbert, Slough, England. Golf-ball cleaner. 1,710,816; Apr. 30.
- Evans, Israel, San Bernardino, Calif. Metal-faced tile. 1,710,413; Apr. 23.
- Evans, James. (See Steiner, G. A., and Evans.)
- Evans, James E., Roscoe, Calif. Oil burner. 1,700,353; Jan. 29.
- Evans, John H. (See Ahern, T. E., and Evans.)
- Evans, Joseph G. (See Willis, William, assignor.)
- Evans, Joseph T., Boise, Idaho. Fruit and vegetable washing and drying machine. 1,708,721; Apr. 9.
- Evans', L. B., Son Company. (See Mathews, Edward F., assignor.)
- Evans, Lewis W., Pittsfield, Mass., assignor to General Electric Company. Electric discharge device. 1,729,715; Oct. 1.
- Evans, Llewellyn W. (See Kerlaouezo, R. C., Evans, and Merry.)
- Evans, Lloyd L. (See Stephenson, Frank B., assignor.)
- Evans, Lynn, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Self-raising vehicle top. 1,697,172; Jan. 1.
- Evans, Lynn, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Self-raising vehicle top. 1,697,173; Jan. 1.
- Evans, Otis H. (See Adamy, Sam, assignor.)
- Evans, Owen B., Philadelphia, Pa., assignor to I. C. Copley, Aurora, Ill. Water-gas generator. 1,699,231; Jan. 15.
- Evans, Porter H., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Power-line signaling. 1,736,852; Nov. 26.
- Evans, Rhys D., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-fabric construction. 1,708,668; Apr. 9.
- Evans, Rhys D., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric-manipulating apparatus. 1,712,338; May 7.
- Evans, Richard, Highland Park, Ill. Cabinet. 1,735,741; Nov. 12.
- Evans, Richard J., assignor to Asbestos Manufacturing Company, Huntington, Ind. Brake lining. 1,700,037; Jan. 22.
- Evans, Robert D. (See Wagner, C. F., Evans, and Griscom.)
- Evans, Robert D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic synchronizing of frequency changers. 1,732,746; Oct. 22.
- Evans, Robert M., Seattle, Wash. Making andirons. 1,727,817; Sept. 10.
- Evans, Russell. (See Mettler, J. W., Hass, and Evans.)
- Evans, Silas M., Sand Springs, Okla. Soda-water carrier or similar article. Des. 77,948; Mar. 12.
- Evans, Silas M., Sand Springs, Okla. Gas burner. 1,733,055; Oct. 22.
- Evans, Solomon, Pilgrim's Rest, Transvaal, assignor to Eclipse Diffusers (Proprietary) Ltd., Johannesburg, Transvaal, South Africa. Dimming attachment for vehicle headlights. 1,732,156; Oct. 15.
- Evans, Walter W., New Rochelle, assignor to The B. F. Goodrich Company, New York, N. Y. Tread member for footwear. 1,708,127; Apr. 9.
- Evans, Will L., Inglewood, Calif. Mop. 1,733,339; Oct. 29.
- Evans, William E., jr. (See Sawers, T., and Evans.)
- Evans, William F. (See Evans, George E. and W. F.)
- Evans, Wilson, assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Turbine. 1,708,086; Apr. 9.
- Eveno, Georges, Paris, France, assignor to Isothermos Corporation of America, New York, N. Y. Lubricating paddle for journal boxes. Re17,283; Apr. 23.
- Eveno, Georges, Paris, France, assignor to Isothermos Corporation of America, New York, N. Y. Lubricating bearing for journal boxes. Re17,322; June 11.
- Eveno, Georges, Paris, France, assignor to Isothermos Corporation of America, New York, N. Y. Lubricating bearing for journal boxes. 1,701,707; Feb. 12.
- Eveno, Georges, Paris, France, assignor to Isothermos Corporation of America, New York, N. Y. Blade for automatically-lubricated bearings. 1,722,129; July 23.
- Eveno, Georges, Paris, France, assignor to Isothermos Corporation of America, New York, N. Y. Bush for axle boxes. 1,722,179; July 23.
- Evens, Walter W., et al. (See Harris, Dan L., assignor.)
- Evensen, Anton, Fox Lake, Ill. Vault construction. 1,741,511; Dec. 31.
- Evensen, Christian. (See Kosmopoulos, A., and Evensen.)
- Evensen, William, Chicago, Ill., assignor to Goss Printing Press Company. Folding mechanism. 1,701,177; Feb. 5.
- Everard, Charles E., Pasadena, Calif. Jeweler's imitation-gem-display books. 1,709,937; Apr. 23.
- Everding, George, Astoria, N. Y. Photographic-printing machine. 1,705,048; Mar. 12.
- Everedy Company, The. (See Lebherz, Harry J., assignor.)
- Everedy Company, The. (See Lebherz, H. J. and R. W., assignors.)
- Everell, Joseph A., et al. (See Massé, Albert, assignor.)
- Everett, Edward A., New York, N. Y. Railway light signal. 1,705,724; Mar. 19.
- Everett, Edward A., New York, N. Y. Spark-gap lighting arrester. 1,714,552; May 28.
- Everett, Edward A., New York, N. Y. Focusing device. 1,714,712; May 28.
- Everett, Edward A., New York, N. Y. Crossing-gate signal switch. 1,717,442; June 18.
- Everett, Edward A., assignor to Nande Corporation, New York, N. Y. Drill chuck. 1,699,837; Jan. 22.
- Everett, Horace D., et al., board of trustees. (See Ellis, Axel E., assignor.)
- Everett, Willard E., Cumberland, Md. Rail joint. 1,711,880; May 7.
- Everhard, Edgar P., assignor to Freyn Engineering Company, Chicago, Ill. Cooling plate. 1,733,253; Oct. 29



- Everhard, Harry H., Canton, Ohio. Window screen. 1,703,363; Apr. 9.
- Everhard, Harry H., assignor to The Everhard Manufacturing Company, Canton, Ohio. Adjustable window screen. 1,704,039; Mar. 5.
- Everhard Manufacturing Company, The. (See Everhard, Harry H., assignor.)
- Everhot Heater Company. (See Ledbetter, Elmer E., assignor.)
- Everhot Heater Company. (See Shuell, Frank W., assignor.)
- Everhot Heater Company. (See Shuell, F. W., and Ledbetter, assignors.)
- Everhot Heating Company, The. (See Shuell, F. W., Ledbetter, and Tobey, assignors.)
- Everist, Hubert, Sioux City, Iowa. Subgrading machine. 1,708,835; Apr. 9.
- Everitt, Walter E., Seattle, Wash. Fire extinguisher. 1,723,476; Aug. 6.
- Everlastik, Inc. (See Chisholm, Lester B., assignor.)
- Everlasting Valve Company. (See Wilson, Wylie G., assignor.)
- Everline, Chester J., Cumberland, Md. License-plate holder. 1,733,119; Oct. 29.
- Evernham, Emmett B. (See Fletcher, A., and Evernham.)
- Evernu Corporation. (See Young, Willis H.)
- Evers, William H. and J. W. Shimek, Lakewood, assignors to The R. C. Products Company, Cleveland, Ohio. Structural concrete beam. 1,701,841; Feb. 12.
- Evershed & Vignoles, Limited. (See Perry, Charles E., assignor.)
- Everson, Carl E. (See Peterson, E. A., and Everson.)
- Everson, William, Alma, Nebr. Vehicle. 1,724,754; Aug. 13.
- Evert, Joseph H., Fontana, Kans. Gun-firing device. 1,740,080; Dec. 17.
- Everts, Helen C., Sutton, Nebr. Table. 1,726,144; Aug. 27.
- Everwear Manufacturing Company, The. (See Hoppes, Charles E., assignor.)
- Everybody's Talking Machine Company (See Green, Paul, assignor.)
- Eves, Joseph R., assignor to Falls Electric Furnace Corporation, Buffalo, N. Y. Electric furnace. 1,741,411; Dec. 31.
- Eves, Reuben H., Spokane, Wash. Irrigating apparatus. 1,715,544; June 4.
- Evesmith, Hansen, Fargo, N. Dak. Method of and apparatus for drying combustible materials. 1,697,268; Jan. 1.
- Evinrude, Ole, Milwaukee, Wis., assignor, by mesne assignments, to Outboard Motors Corporation. Spring-cushioned drive for propellers. 1,734,119; Nov. 5.
- Evinrude Motor Company. (See Hillborn, Herbert J., assignor.)
- Evon, Louis C. (See Quinlan, J. R., and Evon.)
- Evslyn, Leo E., Atlantic City, N. J. Adjustable toothbrush. 1,736,525; Nov. 19.
- Ewald, Arno A., assignor to Romort Manufacturing Company, Oakfield, Wis. Hose clamp. 1,697,232; Jan. 1.
- Ewald, Felix T., New York, N. Y. Drawing holder and tightener for drawing boards. 1,720,121; July 9.
- Ewald, Herman, Chicago, Ill. Producing photographic-process screens. 1,710,303; Apr. 23.
- Ewell, Frank E., East Bridgewater, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening inserting mechanism. 1,730,359; Oct. 8.
- Ewen, Robert G., Washington, R. I., assignor to Draper Corporation, Hopedale, Mass. Salvage-loop-retaining mechanism. 1,701,668; Feb. 12.
- Ewer, Edward C., and W. G. Waldron, Lansing, Mich. Roof flashing. 1,721,550; July 23.
- Ewing, Henry, and C. F. Ryley, deceased, Spondon, near Derby, by E. M. Ryley, administratrix, Borrowash, England, assignor to Celanese Corporation of America, New York, N. Y. Compensating device. 1,724,076; Aug. 13.
- Ewing, Robert H., and P. P. Ash, Louisville, Ky. Signal-control apparatus. 1,702,997; Feb. 19.
- Ewing, Urbane J., Wilkinsburg, Pa. Mop. 1,737,366; Nov. 26.
- Excel Shoe Form Company. (See Niles, Walter L. C., assignor.)
- Excell Manufacturing Company. (See Scoggins, Jesse C.)
- Excella Pattern Company. (See Herzberg, Max, assignor.)
- Excella Pattern Company. (See Laub, George M., assignor.)
- Ex-Cell-O Tool & Manufacturing Co. (See Alden, Carroll R., assignor.)
- Excello Transmission Company. (See Doll, Clyde J., assignor.)
- Excelsior Steel Furnace Company, The. (See Ford, Frank E., assignor.)
- Excelsior Stove & Mfg. Co. (See Heibredner, Herman H., assignor.)
- Exner, Frederick. (See Bartow, Harry E., assignor.)
- Exolon Company, The. (See Hauman, Earl L., assignor.)
- Exolon Company, The. (See Walton, Samuel F., assignor.)
- Exploration Bodenuntersuchungs & Verwertungs-G. m. b. H. (See Haalck, Hans, assignor.)
- Exton, Edward A., assignor to Irwin Foundry and Mine Car Company, Irwin, Pa. Industrial car wheel. 1,737,228; Nov. 26.
- Exton, William G., New York, N. Y. Instrument for measuring fluids for turbidity, color, etc. 1,707,717; Apr. 2.
- Exton, William G., New York, N. Y. Instrument for measuring turbidity, color, and other characteristics of fluids, etc. 1,717,702; June 18.
- Extruded Metal Products Company. (See Williams, Stephen L., assignor.)
- Eye fatigue, Preventing. A. B. Hurley. Re17,502; Nov. 26.
- Eyles, Alexander G., Folkestone, England. Apparatus for playing table games. 1,725,069; Aug. 20.
- Eyles, William F., Grand Rapids, Mich. Electrically-wound clock. 1,726,734; Sept. 3.
- Eynon, David L. (See Lewis, R. A., and Eynon.)
- Eynon, George A., Cleveland, Ohio. Vaporizer. 1,740,339; Dec. 17.
- Eynon, George A., assignor to G. M. Holley, Detroit, Mich. Fuel separator and vaporizer. 1,706,845; Mar. 26.
- Eynon, Margaret Y. (See Eynon, Thomas M., assignor.)
- Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,725,573; Aug. 20.
- Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,725,705; Aug. 20.
- Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,726,549; Sept. 3.
- Eynon, Thomas M., Philadelphia, Pa. Vacuum-connected indicator for gasoline depth. 1,727,101; Sept. 3.
- Eynon, Thomas M., Philadelphia, Pa. Dashboard liquid-level indicator. 1,729,770; Oct. 1.
- Eynon, Thomas M., Philadelphia, Pa. Dashboard gauge for automobile gasoline tanks. 1,722,738; July 30.
- Eynon, Thomas M., Philadelphia, Pa. Dashboard liquid-level indicator. 1,739,297; Dec. 10.
- Eynon, Thomas M., assignor to M. Y. Eynon, Philadelphia, Pa. Mechanism for indicating tire deflation. 1,714,501; May 28.
- Eyre, John J., Saugus, assignor to H. K. Porter, Inc., Everett, Mass. Tire-chain tool. 1,725,626; Aug. 20.
- Eyre, John J., Saugus, assignor to H. K. Porter, Inc., Everett, Mass. Cutting tool. 1,733,056; Oct. 22.
- Eyring, Georg, Furth, assignor to the firm Von Hantelmann & Co., Munich, Bavaria, Germany. Mechanical toy figure. 1,727,818; Sept. 10.
- Eyster, James A., River Edge, N. J., assignor to American Telephone and Telegraph Company. Telegraph system. 1,722,283; July 30.
- Eyster, Ray W., Chicago, Ill. Toilet article. 1,727,007; Sept. 3.
- Ezbelent, Eugène L., Paris, France. Machine for the obtainment of gathered work. 1,703,728; Feb. 26.
- Ezbelent, Eugène L., Paris, France. Plaiting machine. 1,723,688; Aug. 6.
- Ezbelent, Eugène L., Paris, France. Plaiting machine. 1,723,689; Aug. 6.
- Ezbelent Fils. (See Ezbelent, Georges and R., assignors.)
- Ezbelent, Georges and R., Paris, France. Plaiting machine. 1,713,040; May 14.
- Ezbelent, Georges and R., assignors to the company: Ezbelent Fils, Paris, France. Plaiting machine. 1,710,868; Apr. 30.
- Ezbelent, Georges and R., assignors to Ezbelent Fils, Paris, France. Plaiting machine. 1,737,304; Nov. 26.
- Ezbelent, Roger. (See Ezbelent, Georges and R.)
- Ezzell, Frank L. E. (See Coleman, J. L., and Ezzell.)
- F. A. D. Andrea, Inc. (See Clement, L. M., and Nielsen, assignors.)
- F. & N. Lawn Mower Company. (See Lontz, Harry R., assignor.)
- F. & N. Lawn Mower Company of Delaware, The. (See Lontz, Harry R., assignor.)
- F. & P. Heel Holder Company. (See Kutscher, Frank J., assignor.)
- F. R. C. Motor Co., The. (See Long, Albert R., assignor.)
- Faas, Henry R. (See Wirshing, R. J., and Faas.)
- Fabbrica Italiana di Penne a Serbatoio Aurora. (See Debenedetti, Rodolfo, assignor.)
- Fabens, Andrew L. (See Blake, R. S., and Fabens.)
- Fabens, Andrew L., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Method and apparatus for finishing surfaces of hollow metal ware. 1,706,877; Mar. 26.
- Faber, A. W., "Castell" Bleistift-Fabrik A. G. (See Knörr, Hans, assignor.)
- Faber, Henry B. (See Driggs, L. L., Jr., and Faber.)
- Faber, Henry B., assignor of one-half to F. W. Payne, New York, N. Y. Amusement apparatus. 1,732,597; Oct. 22.
- Faber, Jerry A., Hawthorne, N. J. Pipe and radiator support. 1,740,769; Dec. 24.
- Faber, Leon, assignor, by mesne assignments, to National Foam System Inc., Philadelphia, Pa. Producing fire-extinguishing foam. 1,734,164; Nov. 5.
- Faber, Paul, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Steam generation. 1,723,340; Aug. 6.
- Fabian, Charles. (See Chittenden, C. E., and Fabian.)
- Fabrey, William H., assignor to Weber Electric Company, Schenectady, N. Y. Electrical switch. 1,737,924; Dec. 3.
- Fabric Dry Cleaning Machinery Co. Inc. (See Traube, Abraham, assignor.)
- Fabricoid Incorporated, trustee. (See Lowry, George A., assignor.)
- Fabricoid Incorporated. (See Gardner, Frederick P., assignor.)
- Fabriques Movado. (See Ditesheim, Isidore, assignor.)



- Fabyan, George, Geneva, Ill. Therapeutic apparatus. 1,710,049; Apr. 23.
- Factory Service Equipment Co. (See Holt, Raymond B., assignor.)
- Fadell, George J., Gary, Ind. Electric-fixture support. 1,709,614; Apr. 16.
- Faessler, J., Manufacturing Company, The. (See Maupin, Graves R., assignor.)
- Fafnir Bearing Company, The. (See Harris, Howard C., assignor.)
- Fagan, John J., Bayonne, N. J. Thermostat. 1,721,012; July 16.
- Fagan, John L. (See Griffith, C. T., and Fagan.)
- Fagan, John L., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Stocking form. 1,709,712; Apr. 16.
- Fagan, John L., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Stocking board. 1,714,356; May 21.
- Fagan, John T., Cleveland Heights, Ohio. Rocker arm. 1,699,656; Jan. 22.
- Fagan, John T., Cleveland Heights, Ohio. Rocker arm and rocker-arm assembly. 1,699,657; Jan. 22.
- Fagan, John T., Cleveland Heights, Ohio. Combination oil reservoir, rocker arm, and main-support overhead stamped bearing shaft. 1,699,658; Jan. 22.
- Fagan, John T., Cleveland Heights, Ohio. Rocker arm and rocker-arm shaft. 1,699,659; Jan. 22.
- Fagan, John T., Cleveland Heights, Ohio, assignor to General Electric Company. Package for fragile articles. 1,723,021; Aug. 6.
- Fagan, John T., and J. J. Malloy, Cleveland Heights, Ohio, assignors to General Electric Company. Precision basing machine for incandescent lamps and similar articles. 1,724,831; Aug. 13.
- Fagan, John T., Cleveland Heights, and R. G. Phelps, Cleveland, Ohio, assignors to General Electric Company. Apparatus for coloring glass inclosures. 1,708,788; Apr. 9.
- Fagan, John T., F. J. Rippl, and J. J. Malloy, Cleveland, Ohio, assignors to General Electric Company. Machine for making incandescent lamps and similar articles. 1,708,756; Apr. 9.
- Fagan, Lewis E., Chicago, Ill. Soil-milling machine. 1,732,883; Oct. 22.
- Fagan, Thomas, London, England. Apparatus for playing games. 1,718,898; June 25.
- Fageol, Rollie B., Los Angeles, Calif. Spring vehicle. 1,727,759; Sept. 10.
- Fageol, Rollie B., Los Angeles, Calif. Child's spring vehicle. 1,704,315; Mar. 5.
- Fageol, Rollie B., Los Angeles, Calif., assignor to American Chain Company, Inc. Tubular-bar bumper. 1,697,498; Jan. 1.
- Fageol, Rollie B., Los Angeles, Calif., assignor to American Chain Co. Bumper. 1,723,774; Aug. 6.
- Fageol, Rollie B., Los Angeles, assignor to Eight-Wheel Motor Vehicle Company, San Francisco, Calif. Multiwheel road vehicle. 1,739,450; Dec. 10.
- Fageol, Rollie B., Los Angeles, Calif., assignor to Eight-Wheel Motor Vehicle Company. Torquing arrangement for tandem-axle vehicles. 1,739,355; Dec. 10.
- Fagergren, William, assignor to Universal Engineering Company, Salt Lake City, Utah. Apparatus for circulating and distributing flotation pulp. 1,736,073; Nov. 19.
- Fagundes, Frank M., jr., et al. (See Hondeville, August I., assignor.)
- Faguy, Joseph A., Montreal, Quebec, Canada. Windshield and the like. 1,741,562; Dec. 31.
- Fahland, Karl, Dessau-Grosskubnau, Germany. Drum-mill feeder. 1,719,971; July 9.
- Fahlberg, E. D., Mfg. Company. (See Fahlberg, Ernest D., assignor.)
- Fahlberg, Ernest D., assignor to E. D. Fahlberg Mfg. Company, Madison, Wis. Beater. 1,705,639; Mar. 19.
- Fahle, Frederick J., Toledo, Ohio. Power-transmission mechanism. 1,728,962; Sept. 24.
- Fahnestock, Adam B., Manhasset, N. Y. Apparatus for feeding and burning fuel. 1,709,902; Apr. 23.
- Fahnestock, Archer P., Plandome, assignor to Fahnestock Electric Company, Long Island City, N. Y. Wire terminal. 1,706,659; Mar. 26.
- Fahnestock Electric Company. (See Fahnestock, Archer P., assignor.)
- Fahnestock, Harry W., Chicago, Ill. Signal-flag holders. 1,722,842; July 30.
- Fahrenbach, Karl, and W. J. Freck, deceased, Medford, Wis.; S. Frech, executrix; said S. Frech assignor to said Fahrenbach. Mechanical chimney sweeper. 1,725,980; Aug. 27.
- Fahrenkrug, Henry C. (See Holt, Ralph O., assignor.)
- Fahrenwald, Frank A., Chicago, Ill. Supporting finger for annealing furnaces. 1,700,366; Jan. 29.
- Fahrenwald, Frank A., Chicago, Ill. Process and apparatus for electroplating tubes. 1,733,404; Oct. 29.
- Fahrenwald, Frank A., Cleveland Heights, Ohio. Alloy. 1,704,733; Mar. 12.
- Fahrni, Otto, Laufenburg, Switzerland. Mouth organ. 1,714,663; May 28.
- Fahsel, Carl D., deceased; N. B. Fahsel, administratrix, New York, N. Y. Red-lead paint. 1,697,388; Jan. 1.
- Fahsel, Nellie B., administratrix. (See Fahsel, Carl D.)
- Faichney Instrument Corporation. (See Russell, Claude S. J., assignor.)
- Failliot, Jacques, Paris, France. Bottle. Des. 79,460; Sept. 24.
- Failor, Charles W., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,701,749; Feb. 12.
- Failor, Charles W., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,718,736; June 25.
- Fain, Brace L., Carrollton, Ill., and W. D. Crowell, St. Louis, Mo. Apparatus for scoring ice. 1,707,801; Apr. 2.
- Fairbairn, Donald, Amityville, N. Y. Coin purse. 1,699,614; Jan. 22.
- Fairbairn, John J. (See Pos, M. J., Stadelman, and Fairbairn.)
- Fairbairn, Morley L., and G. W. Wright, Berthoud, Colo. Cleaning and polishing composition. 1,733,299; Oct. 29.
- Fairbanks Company, The. (See Ryan, E. F., and Adams, assignors.)
- Fairbanks, E. Hayward. (See Gibson, Hugo C., assignor.)
- Fairbanks, E. L., et al. (See Sadler, Luther, assignor.)
- Fairbanks, E. and T., and Company. (See Bousfield, Alfred, assignor.)
- Fairbanks, E. and T., and Company. (See Hadley, Harlan A., assignor.)
- Fairbanks, Edward L., Glendale, Calif., assignor to Continuous Rail Crossing Corporation, Reno, Nev. Rail crossing. 1,729,098; Sept. 24.
- Fairbanks, Ernest H., Merchantville, N. J. Skeleton for disk-record ejectors. 1,701,479; Feb. 5.
- Fairbanks, Morse & Co. (See Adams, Edward T., assignor.)
- Fairbanks, Morse & Co. (See Elley, Alfred C., assignor.)
- Fairbanks, Morse & Co. (See Huntington, Victor C., assignor.)
- Fairbanks, Morse & Co. (See Mahana, Charles G., assignor.)
- Fairbanks, Morse & Co. (See Whitesell, Frederick N., assignor.)
- Fairchild Aerial Camera Corporation. (See Henry, Ferdinand G., assignor.)
- Fairchild Airplane Manufacturing Corporation. (See Haase, Louis, assignor.)
- Fairchild Airplane Manufacturing Corporation. (See Weymouth, Frederick R., assignor.)
- Fairchild Aviation Corporation. (See Stalb, Arthur R., Jr., assignor.)
- Fairchild-Camenez Engine Corporation. (See Camenez, Harold, assignor.)
- Fairchild, Charles N., New Haven, Conn. Emergency cut-out lock. 1,699,183; Jan. 15.
- Fairchild, Charles N., Milford, Conn., assignor to The Connecticut Specialties Corporation, New York, N. Y. Sandblast nozzle. 1,703,029; Feb. 19.
- Fairchild, Sherman M., New York, N. Y. Camera shutter. 1,707,849; Apr. 2.
- Fairchild, Sherman M., New York, N. Y. Control-surface-operating mechanism. 1,711,637; May 7.
- Fairchild, Sherman M., New York, N. Y. Airplane-propelling means. 1,723,925; Aug. 6.
- Fairchild, Sherman M., New York, N. Y. Information recording attachment for cameras. 1,723,926; Aug. 6.
- Fairchild, Walter H., Chicago, Ill., assignor to Mid-West Box Company, Anderson, Ind. Plaster base. 1,697,637; Jan. 1.
- Fairchild, Walter L., New York, N. Y. Apparatus for handling heated molds for tires, tubes, and the like. 1,699,102; Jan. 15.
- Fairchild, William, assignor to Albany Perforated Wrapping Paper Company, Albany, N. Y. Paper package. 1,706,220; Mar. 19.
- Fairey, Charles R. (See Ordidge, F. H., and Williams, assignors.)
- Fairfax, Charles L., East Cleveland, Ohio. Convertible sled. 1,723,341; Aug. 6.
- Fairfield Engineering Company, The. (See Brown, Clarence O., assignor.)
- Fairfield Engineering Company, The. (See Walker, Henry B., assignor.)
- Fairmont Railway Motors, Inc. (See Trees, Leonard E., assignor.)
- Fair Play Caramels, Inc. (See Trauger, J. W., and Smethers, assignors.)
- Fairweather, David A. W., E. G. Beckett, and J. Thomas, Grangemouth, Scotland, assignors, by mesne assignments, to The Selden Company, Pittsburgh, Pa. Production of benzoic acid and like processes. 1,727,102; Sept. 3.
- Fairweather, Hilyard J., Chipman, New Brunswick, Canada. Mechanical rocker. 1,704,914; Mar. 12.
- Faison, William A., et al., trustees. (See Gage, C. H., and Searies, assignors.)
- Falck, Joseph E., assignor to National Casket Company, Incorporated, Pittsburgh, Pa. Casket handle. 1,709,713; Apr. 16.
- Falck, William H. (See Goldsmith, M. M., and Falck.)
- Falcone, Giuseppe S. (See Falcone, Joseph N. and G. S.)
- Falcone, Joseph N. and G. S., Hartford, Conn. Golf-tee holder. 1,703,138; Feb. 26.
- Falcone, Joseph N. and G. S., Hartford, Conn. Golf-tee holder. 1,703,139; Feb. 26.
- Falek, Charles, New York, N. Y. Treating fur. 1,715,747; June 4.



- Fales, Samuel. (See Henry, G. G., and Fales.)
- Falge, Robert N., Cleveland, Ohio, assignor to General Electric Company. Two-filament incandescent lamp. 1,722,180; July 23.
- Falk Corporation, The. (See Banner, Otto A., assignor.)
- Falk Corporation, The. (See Day, P. C., and Jury, assignors.)
- Falk Corporation, The. (See Levine, Hyman, assignor.)
- Falk, John F., and H. M. Sachartow, Chicago, Ill. Making pants pockets for men's clothing. 1,721,180; July 16.
- Falk, Morris, Fitchburg, Mass. Disk lock. 1,726,614; Sept. 3.
- Falke, William, Wahoo, Nebr. Toy. 1,709,121; Apr. 16.
- Falkenberg, Fritz. (See Ehlers, W., and Falkenberg.)
- Falkenberg, Heinrich, Weetzen, near Hanover, Germany. Tungsten alloy. 1,703,577; Feb. 26.
- Falknor, Frank B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio system. 1,698,014; Jan. 8.
- Falknor, Frank B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio transmitting system. 1,702,470; Feb. 19.
- Falknor, Frank B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio tuning system. 1,710,768; Apr. 30.
- Falla, Fernando, Maplewood, N. J., assignor of one-half to Edge Moor Iron Company, Edge Moor, Del. Double-flow fan. 1,728,204; Sept. 17.
- Falla, Hedley, Milford, N. H. Stake attachment for freight cars. 1,714,357; May 21.
- Fallert, August J., Akron, Colo. Road-grader attachment. 1,738,880; Dec. 10.
- Falletta, Hector, Los Angeles, Calif. Drafting implement. 1,710,414; Apr. 23.
- Fallon, David V., assignor to Dongan Electric Manufacturing Co., Detroit, Mich. Ammeter. 1,709,973; Apr. 23.
- Fallon, David V., assignor to Dongan Electric Manufacturing Company, Detroit, Mich. Combined transformer and conduit-box cover. 1,721,775; July 23.
- Fallon, John. (See Smallwood, A., and Fallon.)
- Fallon, W. J., Leather Co. (See Runey, George L., assignor.)
- Fallon, William J., jr., Boston, Mass. Welt for boots and shoes. 1,714,262; May 21.
- Fallot, Alfred, Flauen I. Vogt, Germany, by H. Priester, executor, Berlin, Germany. Raising, changing, and driving the paper-web rolls in printing machines, and more particularly in rotary printing machines. 1,742,029; Dec. 31.
- Falls Electric Furnace Corporation. (See Eves, Joseph R., assignor.)
- Falvey, John A., Detroit, Mich. Post card or similar article. Des. 79,288; Aug. 27.
- Falvey, Harold P. (See Mundstock, H. C., Falvey, and Garrison.)
- Falzer, Joseph, Chicago, Ill. Bath fixture. 1,732,798; Oct. 22.
- Fanaire Heater Company. (See Fisher, Ernest F., assignor.)
- Fancher, Charles J., Windsor, Vt., and R. A. Johnson, Longmeadow, Mass., assignors, by mesne assignments, to Woodward, Hubbard Company, Hill, N. H. Boxing mechanism. 1,712,494; May 14.
- Fancher, Charles J., Windsor, Vt., and R. A. Johnson, Longmeadow, Mass., assignors, by mesne assignments, to Woodward-Hubbard Company, Hill, N. H. Strip-feeding mechanism. 1,723,690; Aug. 6.
- Fanders, Marten, assignor of one-third to M. Begus, Beatrice, Nebr. Automatic whistle. 1,712,339; May 7.
- Fandi, Fritz, Sommerda, assignor of one-half to Rheinische Metallwaren- und Maschinenfabrik Sommerda Aktien-gesellschaft, Sommerda Thuringia, Germany. Compressed air-controlling mechanism. 1,732,717; Oct. 22.
- Fanelli, Ralph. (See Eckburg, Oliver N., assignor.)
- Fanger, Herman J., assignor of one-third to E. R. Weeks, jr., and one-third to E. R. Weeks, sr., Oakland, Calif. Process and apparatus for producing luminous effects. 1,728,234; Sept. 17.
- Fankhauser, Elmer O., and J. J. McCoy, New Castle, Pa. Amusement apparatus. 1,712,840; May 7.
- Fanner Manufacturing Company, The. (See Raible, Charles G., assignor.)
- Fanner Manufacturing Company, The. (See Schane, Edward H., assignor.)
- Fansteel Products Company. (See Balke, Clarence W., assignor.)
- Fansteel Products Company. (See Engle, Edward W., assignor.)
- Fansteel Products Company. (See Engle, E. W., and Austin, assignors.)
- Fansteel Products Company. (See Engle, E. W., and Olsen, assignors.)
- Fansteel Products Company. (See Lincoln, Elmer W., assignor.)
- Fansteel Products Company. (See Philip, Howard, assignor.)
- Fansteel Products Company. (See Miller, Harry N., assignor.)
- Fansteel Products Company. (See Miller, H. N., and Engle, assignors.)
- Fansteel Products Company. (See Stryker, Clinton E., assignor.)
- Fansteel Products Company. (See Stryker, C. E., and Lincoln, assignors.)
- Fanton, Harry B., assignor of one-half to H. Sachs, Danbury, Conn. Separator for fur, wool, and cotton. 1,706,221; Mar. 19.
- Fanton, Harry B., assignor of one-half to H. Sachs, Danbury, Conn. Fur mixing and dusting machine. 1,740,289; Dec. 17.
- Faranda, Salvatore J., East Elmhurst, N. Y. Cigarette holder. 1,730,033; Oct. 1.
- Farasey, James, Cleveland, Ohio. Drying apparatus. 1,719,603; July 2.
- Farber, Clayton W., Bowmanstown, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Zinc sulphide. 1,742,030; Dec. 31.
- Farber, Jacob, New York, N. Y. Toy register bank. 1,699,232; Jan. 15.
- Farber, S. W., Inc. (See Buckley, James J., assignor.)
- Farber, S. W., Inc. (See Farber, Simon W., assignor.)
- Farber, S. W., Inc. (See Murphy, Frank J., assignor.)
- Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Candy dish or similar article. Des. 78,092; Mar. 26.
- Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Dessert set or similar article. Des. 78,093; Mar. 26.
- Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Ice-cream set or similar article. Des. 78,094; Mar. 26.
- Farber, Simon W., assignor to S. W. Farber, Inc., Brooklyn, N. Y. Dessert set or similar article. Des. 78,095; Mar. 26.
- Farber, Simon W., Brooklyn, assignor to S. W. Farber, Inc., New York, N. Y. Lamp base. Des. 78,156; Apr. 2.
- Farber, Simon W., Brooklyn, N. Y. Casserole holder. Des. 78,458; May 7.
- Fardet, André G. L., Rumilly, France. Loom. 1,726,216; Aug. 27.
- Faries Manufacturing Company. (See Bowen, Michael B., assignor.)
- Faries Manufacturing Company. (See Miller, George L., assignor.)
- Faries Manufacturing Company. (See Peters, Henry M., assignor.)
- Faris, Edwin E., assignor of one-third to M. E. Bryan and one-third to S. F. Zbinden, Chattanooga, Tenn. Device for displaying automobiles. 1,721,335; July 16.
- Farish, Stephen P. (See Maloney, J. F., and Farish.)
- Farley, Alfred C., Benning, assignor of one-half to S. L. Gardner, Washington, D. C. Scaffold. 1,714,215; May 21.
- Farley, Carlton K., Greeley, Colo. Lawn-sprinkling device. 1,714,713; May 28.
- Farley, Edward L., Jonesboro, Ark. Cotton cleaner. 1,709,663; Apr. 16.
- Farley, Edward L., Jonesboro, Ark. Cotton cleaner. 1,709,714; Apr. 16.
- Farley, Edward L., Jonesboro, Ark. Cotton cleaner. 1,709,715; Apr. 16.
- Farley, Edward L., Jonesboro, Ark. Fish lure. 1,731,161; Oct. 8.
- Farley, Fred E., assignor to Goodell-Pratt Company, Greenfield, Mass. Switch for power drills. 1,712,261; May 7.
- Farley, George E., Southgate, Calif. Protective cushion for gauges. 1,713,824; May 21.
- Farley, William R. (See Moss, C. McL., Farley, and Petersen.)
- Farley, William R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Tap-changing system. 1,705,725; Mar. 19.
- Farley, William R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective system for transformers. 1,729,099; Sept. 24.
- Farlin, Elmer W., Spencer, Nebr. Animal-poking implement. 1,734,082; Nov. 5.
- Farmer, Albert M., Chicago, Ill. Piston ring. 1,740,812; Dec. 24.
- Farmer, Clifton C. (See Osborne, H. P., Farmer, and Teeter.)
- Farmer, Clyde C., Pittsburgh, and T. H. Thomas, deceased, by M. M. Thomas, executrix, Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. Re17,509; Dec. 3.
- Farmer, Clyde C., Pittsburgh, Pa., assignor to Locomotive Boster Company. Controlling mechanism for locomotive booster motors. 1,697,638; Jan. 1.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,697,972; Jan. 8.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Slack adjuster. 1,700,835; Feb. 5.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston-ring-testing device. 1,703,873; Mar. 5.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Coupling gasket. 1,703,874; Mar. 5.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle cock. 1,703,875; Mar. 5.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-cylinder device. 1,703,876; Mar. 5.



- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,707,259; Apr. 2.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,709,903; Apr. 23.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,709,904; Apr. 23.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,709,905; Apr. 23.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Unloading device for compressors. 1,709,906; Apr. 23.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,711,779; May 7.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Exhaust-controlling device. 1,714,008; May 21.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston-travel indicator. 1,714,009; May 21.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,714,010; May 21.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,714,011; May 21.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Valve lubricator. 1,720,265; July 9.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load apparatus. 1,720,266; July 9.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,720,267; July 9.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load brake. 1,720,268; July 9.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Choke-cleaning device. 1,723,143; Aug. 6.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train-control speed governor. 1,723,144; Aug. 6.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Reservoir release valve. 1,727,369; Sept. 10.
- Farmer, Clyde C., Pittsburgh, and J. C. McCune, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake cylinder. 1,727,398; Sept. 10.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Retaining valve device. 1,733,188; Oct. 29.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor-unloading device. 1,735,999; Nov. 19.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,736,000; Nov. 19.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Quick-service device. 1,739,583; Dec. 17.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,739,584; Dec. 17.
- Farmer, Frank T., Detroit, Mich., assignor of one-half to R. E. Farmer, New York, N. Y. Clutch. 1,719,881; July 9.
- Farmer, Fred, Brooklyn, N. Y., assignor to American Machine & Foundry Company. Package conveyor for bread-wrapping machines. 1,740,582; Dec. 24.
- Farmer, James C. (See Jamison, T. E., Pollard, and Farmer.)
- Farmer, James T., jr., Samson, Ala., assignor of one-half to E. C. Morse, Washington, D. C. Carrier harness. 1,727,873; Sept. 10.
- Farmer, John F., Indianapolis, Ind. Reflex-action motor-vehicle lamp. 1,700,927; Feb. 5.
- Farmer, John F., Indianapolis, Ind. Antiglare motor-vehicle lamp. 1,724,701; Aug. 13.
- Farmer, Malcolm, Hartford, Conn. Electrical annealing. 1,739,958; Dec. 17.
- Farmer, Melvin M., Blue Island, Ill. Piston-rod packing ring. 1,716,519; June 11.
- Farmer, Robert E. (See Farmer, Frank T., assignor.)
- Farmer, Samuel D. (See Farmer, Silas D. and S. D.)
- Farmer, Silas D. and S. D., Okmulgee, Okla. Automatic brake control for vehicles. 1,709,254; Apr. 16.
- Farmer, Thomas, jr., New York, N. Y. Film viewer. 1,729,660; Oct. 1.
- Farmer, William J., Wirt, Okla. Rim breaker. 1,728,159; Sept. 10.
- Farmer, Zack F. (See Scherf, J. G., and Farmer.)
- Farmers' Loan and Trust Company, The, executor. (See Warren, Ralph H., assignor.)
- Farmers' Loan and Trust Company, The, et al., executors. (See Schweinert, Maximilian C.)
- Farmers Manufacturing Company. (See Halstead, James W., assignor.)
- Farmers National Bank. (See French, Charles A., assignor.)
- Farmers National Bank, trustee. (See French, C. A., and Waterman, assignors.)
- Farmers' National Bank of Greenville, Ohio, trustee. (See Waterman, Russell R., assignor.)
- Farmers' National Bank of Greenville, Ohio, trustee. (See French, C. A., and Waterman, assignors.)
- Farnham, Carl O., deceased; First National Bank & Trust Company, administrator, Paris, Ill. Hoisting apparatus. 1,737,753; Dec. 3.
- Farnham, Frank B., Providence, R. I. Gem setting. 1,710,684; Apr. 30.
- Farnham, Ralph L. (See Bastian, C. L., and Farnham.)
- Farnham, Robert, Philadelphia, and B. C. Collier, Allentown, Pa., assignors to Cement Gun Contracting Company. Floor construction and producing the same. 1,728,265; Sept. 17.
- Farnsworth, Frederick C., Norristown, Pa. Drying system. 1,705,516; Mar. 19.
- Farnsworth, Frederick C., Norristown, Pa. Apparatus for handling fluids. 1,708,471; Apr. 9.
- Farnsworth, Hiland R., assignor to The Paper & Textile Machinery Co., Sandusky, Ohio. Box suspension for suction rolls. 1,706,660; Mar. 26.
- Farnsworth, Hiland R., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Water-cooled mold for centrifugal-casting machines. 1,726,698; Sept. 3.
- Farnsworth, Hiland R., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Wear distributor for suction-roll shells. 1,730,921; Oct. 8.
- Farnsworth, William Y., assignor to Frank E. Best, Inc., Seattle, Wash. Tubular dead-bolt lock. 1,727,054; Sept. 3.
- Farnum, Frank S., assignor to Churchill and Alden Company, Brockton, Mass. Footwear. 1,720,671; July 16.
- Farnum, William C., Fitchburg, Mass. Rolling toy. 1,737,651; Dec. 3.
- Faröy, Arne, and O. Stangland, Chicago, Ill. Internal-combustion engine. 1,719,215; July 2.
- Farquhar, A. B., Company. (See Burns, Walter W., assignor.)
- Farquharson, David D. (See Ford, Reginald, assignor.)
- Farr, Henry V. (See Mallinckrodt, E. J., and Farr.)
- Farr, James C., Dallas, Tex. Service tray. 1,700,834; Feb. 5.
- Farr, Virgil H., Donora, Pa., assignor to The American Steel and Wire Company of New Jersey. Metal fabric and making the same. 1,706,524; Mar. 26.
- Farrand, Clair L., Forest Hills, N. Y., and E. Ross, East Orange, N. J.; said Ross assignor to Farrand Mfg. Co. Inc., Long Island City, N. Y. Actuating mechanism for loud-speakers. 1,707,222; Apr. 2.
- Farrand, Clair L., Forest Hills, N. Y., and E. Ross, East Orange, N. J.; said Ross assignor to Farrand Mfg. Co. Inc., Long Island City, N. Y. Pedestal construction for loud-speakers and the like. 1,707,802; Apr. 2.
- Farrand, Clair L., Forest Hills, N. Y.; E. Ross, East Orange, and P. F. Godley, Upper Montclair, N. J.; said Godley and said Ross assignors to Farrand Mfg. Co. Inc., Long Island City, N. Y. Loud-speaker. 1,712,759; May 14.
- Farrand, Clair L., Forest Hills, N. Y., assignor to Farrand Inductor Corporation, Jersey City, N. J. Telephonic loud-speaker. 1,732,644; Oct. 22.
- Farrand, Hiram A., Berlin, N. H. Coiling means for concavo-convex springs. 1,730,199; Oct. 1.
- Farrand Inductor Corporation. (See Farrand, Clair L., assignor.)
- Farrand Mfg. Co. Inc. (See Farrand, C. L., and Ross, assignors.)
- Farrand Mfg. Co. Inc. (See Farrand, C. L. Ross and Godley, assignors.)
- Farrar, Allan C., Whitman, Mass. Detachable heel. 1,740,976; Dec. 24.
- Farrar, Leonard C., New York, N. Y. Safety catch for brooches, emblems, etc. 1,699,960; Jan. 22.
- Farrar, Mercer G., Scarsdale, N. Y., assignor to Carbide & Carbon Chemicals Corp. Compressed gas. 1,726,018; Aug. 27.
- Farrar, Monroe, Detroit, Mich. Trench-sheeting device. 1,723,691; Aug. 6.
- Farrar, Welter S., Oakdale, assignor of one-half to B. H. Matteson, Modesto, Calif. Maul. 1,723,477; Aug. 6.
- Farre, William, Portland, Ore. Flagpole and stand. 1,724,832; Aug. 13.
- Farrel-Birmingham Company. (See Farrel, Franklin, jr., assignor.)
- Farrel-Birmingham Company. (See Hilton, Alan F., assignor.)
- Farrel-Birmingham Company. (See Lewis, Richard C., assignor.)
- Farrel-Birmingham Company. (See Milne, David, assignor.)
- Farrel-Birmingham Company. (See Taylor, Henry E. P., assignor.)
- Farrel-Birmingham Company Incorporated. (See Scherr, Frederick, jr., assignor.)
- Farrel, Franklin, jr., New Haven, assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Cane mill. 1,696,943; Jan. 1.
- Farrel, Franklin, jr., New Haven, assignor by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Cane mill; 1,696,944; Jan. 1.
- Farrel, Franklin, jr., New Haven, assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Cane mill. 1,696,945; Jan. 1.



- Farrell, Anna E., Seattle, Wash. Picot cutter for hem-stitching machines. 1,733,220; Oct. 29.
- Farrell, Edward P., assignor to The Sit O'Sleep Furniture Company, Toledo, Ohio. Bed chair. 1,734,943; Nov. 5.
- Farrell, Fred, assignor to Electrical Engineers Equipment Co., Chicago, Ill. Switch. 1,707,461; Apr. 2.
- Farrell, Fred H., Valparaiso, Ind., assignor to The Universal Device Company, Chicago, Ill. Liquid-level indicator. 1,706,958; Mar. 26.
- Farrell, James L. (See Johnston, L. M., and Farrell.)
- Farrell, James M., Los Angeles, Calif. Speed vessel. 1,710,869; Apr. 30.
- Farrell, Sidney T., Newtonville, Mass. Game. 1,741,832; Dec. 31.
- Farrell, Stephen A., Brooklyn, N. Y. Flexible mechanical power transmission. 1,727,232; Sept. 3.
- Farrell, William E., Easton, Pa. Stone-quarry skip car. 1,712,495; May 14.
- Farrell, William J., Garfield, N. J., assignor of one-half to R. B. Lewis, Unionville, N. Y. Ratchet clamping and releasing device. 1,717,349; June 11.
- Farrin, M. B., Lumber Company, The. (See Pfister, Henry J., assignor.)
- Farrington, Charles E., Phoenixville, Pa. Agitator for drums or the like. 1,723,022; Aug. 6.
- Farrington, Charles E., Phoenixville, Pa. Stirring device. 1,734,120; Nov. 5.
- Farrington, Herbert O., Kittery, Me. Mechanism for adjusting condensers. 1,711,931; May 7.
- Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling. 1,722,080; July 23.
- Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Two-way signaling system. 1,722,081; July 23.
- Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling. 1,724,917; Aug. 20.
- Farrington, John F., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling. 1,738,235; Dec. 3.
- Farrington, John F., Flushing, N. Y., and E. H. Smythe, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Signal receiver. 1,730,605; Oct. 8.
- Farrington Manufacturing Company. (See Vogt, Lucien E., assignor.)
- Farrington, Thayer B., Columbus, Ohio. Sectional milling cutter. 1,713,273; May 14.
- Farrior, James W. (See Penney, E. R., and Farrier.)
- Farris, F. M. (See McWilliams, T. A., Parman, and Overall, assignors.)
- Farris, Cynthia L., St. Louis, Mo. Manicure brush. 1,732,508; Oct. 22.
- Farris, Frank. (See Caldwell, E. L., and Farris.)
- Farrow, Cary, Houston, Tex. Light holder. 1,728,532; Sept. 17.
- Farson, Ernest G., Greencastle, Mo. Incubator alarm. 1,719,655; July 2.
- Faruggia, John, Bronx, N. Y. Cooking utensil. 1,739,546; Dec. 17.
- Fasano, John O., Irvington, N. J. Tape guide. 1,714,860; May 28.
- Fassett, Howard S., assignor to F. B. Lay, Chicago, Ill. Circulating apparatus. 1,709,468; Apr. 16.
- Fassio Company, The. (See Fassio, Julius, assignor.)
- Fassio, Julius, assignor to The Fassio Company, Incorporated, San Francisco, Calif. Dishwashing machine. 1,717,149; June 11.
- Fassnacht, Karl, assignor to Spediel Chain Co., Providence, R. I. Ornamental chain. 1,728,266; Sept. 17.
- Fassnacht, Karl, assignor to Spediel Chain Co., Providence, R. I. Chain. 1,736,772; Nov. 26.
- Fast, Gerhard H., Fielding, Saskatchewan, Canada. Traction device for automobiles. 1,697,915; Jan. 8.
- Fast, Gustave, Annapolis, Md. Gas scrubber. 1,713,175; May 14.
- Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. 1,708,693; Apr. 9.
- Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln for burning wet cement materials, etc. 1,720,786; July 16.
- Fasting, Johan S., Valby, near Copenhagen, Denmark. Apparatus for treating wet raw materials in the manufacture of cement. 1,731,457; Oct. 15.
- Fasul, Dominick, New York, N. Y. Snow-removing apparatus. 1,722,843; July 30.
- Fate, John C., Inglewood, Calif. Foot rest. 1,723,478; Aug. 6.
- Fatkin, Edward S., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Rotary hearth furnace. 1,728,750; Sept. 17.
- Fatscher, George C., assignor to The New Haven Sand Blast Company, New Haven, Conn. Sand-blast apparatus. 1,706,222; Mar. 19.
- Fatscher, George C., and C. E. Billings, assignors to The New Haven Sand-Blast Company, New Haven, Conn. Sand-blast machine. 1,710,612; Apr. 23.
- Faughn, James W., Kerens, Tex. Sash roller. 1,712,696; May 14.
- Faulds, John, Oak Park, Ill. Oven. 1,719,972; July 9.
- Faulds, Norval M., Clearwater, Fla. Device for porch curtains. 1,734,800; Nov. 5.
- Faulhaber, Charles, Brownlee, Nebr., assignor to I. Faulhaber, Eugene, Oreg., and R. McDonald, Brownlee, Nebr. Bog cutter and road leveler. 1,740,396; Dec. 17.
- Faulhaber, Irving, et al. (See Faulhaber, Charles, assignor.)
- Faulk, Jacob, St. Louis, Mo. Cooking utensil. 1,730,034; Oct. 1.
- Faulkenberry, Clayton L., St. Louis, Mo. Ladder. 1,722,844; July 30.
- Faultless Caster Company. (See Noelting, William H., assignor.)
- Faultless Rubber Company, The. (See Miller, Thomas W., assignor.)
- Faure, Louis A., San Francisco, Calif. Spotting tool. 1,715,496; June 4.
- Faurote, David L., Wanatah, Ind. Aeroplane. 1,730,414; Oct. 8.
- Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Adjustable inductance. 1,699,506; Jan. 15.
- Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Meter-compensating device. 1,724,833; Aug. 13.
- Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Temperature-responsive device. 1,742,138; Dec. 31.
- Fausek, Arthur J. and I. F., St. Louis, Mo. Valve. 1,716,722; June 11.
- Fausek, Arthur J., and I. F. Fausek, St. Louis, Mo. Torch. 1,732,401; Oct. 22.
- Fausek, Irving F. (See Fausek, Arthur J. and I. F.)
- Fausel, Charles A., Glen Ridge, N. J., and H. E. Bauer, New York, N. Y., assignors to International Taximeter Corporation. Taximeter. 1,718,340; June 25.
- Fausel, Charles A., Glen Ridge, N. J., and H. E. Bauer, New York, N. Y., assignors to International Taximeter Corporation. Indicator. 1,718,341; June 25.
- Fausser, Frederick J., and F. M. Edgar, assignors to Ternstedt Manufacturing Co., Detroit, Mich. Window-regulator connection. 1,736,703; Nov. 19.
- Fausser, Gustave M., Ardsley-on-Hudson, N. Y. Rug or similar article. Des. 77,536; Jan. 22.
- Fausser, Gustave M., Ardsley-on-Hudson, N. Y. Rug or similar article. Des. 77,537; Jan. 22.
- Fausser, Gustave M., Ardsley-on-Hudson, N. Y. Linoleum or similar hard-surfaced floor covering. Des. 78,738; June 18.
- Fausser, Gustave M., Ardsley-on-Hudson, N. Y. Rug or similar article. Des. 77,758; Feb. 19.
- Fausser, Oscar W., Bellerose, N. Y. Rug or similar article. Des. 77,538; Jan. 22.
- Fausser, Oscar W., Bellerose, N. Y. Rug or similar article. Des. 77,539; Jan. 22.
- Fausse, Joseph, Brockton, and R. E. Duplessis, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,713,525; May 21.
- Faussett, Alfred, Sultan, Wash. Safety boat. 1,697,420; Jan. 1.
- Faust, Elroy C. (See Speicher, D. E., and Faust.)
- Faust, Guy W., Auburn, Pa. Pocket attachment for holding pens or pencils. 1,706,282; Mar. 19.
- Fauver, Clare C., Morenci, Mich. Carrier. 1,727,008; Sept. 3.
- Fauver, Harry W., Detroit, Mich. Glass-run channel. 1,716,219; June 4.
- Favata, Joseph, jr., Buffalo, N. Y. Holder for flowerpots and cut flowers. 1,712,986; May 14.
- Favorite Stove and Range Company, The. (See Dilworth, John, assignor.)
- Favorite Stove & Range Company, The. (See Herwig, C., jr., and Spielman, assignors.)
- Favorite Stove & Range Company, The. (See Ross, Sherman, assignor.)
- Favour, Paul, assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture screen. 1,735,162; Nov. 12.
- Favre, George C., assignor to American Optical Company, Southbridge, Mass. Grinding machine. 1,701,669; Feb. 12.
- Favre, George C., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,721,181; July 16.
- Favre, Marc, Evillard s/Bienne, Switzerland, assignor to The Gruen Watch Company, Cincinnati, Ohio. Odd-shape watch movement with second hand. 1,708,610; Apr. 9.
- Faw, J. H. (See Hartley, Seward W., assignor.)
- Faw, J. H. (See Rauch, Philip, assignor.)
- Fawick, Thomas L., Racine, Wis., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission. 1,733,786; Oct. 29.
- Fawick, Thomas L., Racine, Wis., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission. 1,736,151; Nov. 19.
- Fawick, Thomas L., Racine, Wis., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission. 1,738,697; Dec. 10.
- Fawkes, Charles E., Chicago, Ill. Apparatus for centrifugal separation. 1,700,928; Feb. 5.
- Fawkes, Charles E., assignor to The Quaker Oats Company, Chicago, Ill. Colored material and coating and producing the same. 1,732,124; Oct. 15.
- Fay, Alpheus, Louisville, Ky. Apparatus for operating upon composite substances. 1,741,763; Dec. 31.
- Fay, Eli P. (See Rehrig, William J., assignor.)



- Fay, J. A., & Egan Company, The. (See Hirst, James E., assignor.)
- Fay, Joseph G., Seattle, Wash. Friction clutch. 1,729,376; Sept. 24.
- Fay, Joseph G., and J. C. Porter, Seattle, Wash., said Porter assignor to said Fay. Variable-speed transmission. 1,731,972; Oct. 15.
- Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for forming articles. 1,706,393; Mar. 26.
- Fay Manufacturing Co. (See Schiff, Henry T., assignor.)
- Fay, Owen J., Chicago, H. T. Heimberger, Riverside, and E. Pugh, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Heating device. 1,726,658; Sept. 3.
- Fay, Thomas J., Brooklyn, N. Y. Vehicle suspension device. 1,700,566; Jan. 29.
- Fayer, Charles, Flushing, N. Y., assignor to Wappler Electric Company, Inc. Synchronous motor. 1,717,500; June 18.
- Yayette, George J., and J. S. Rolph, Blaine, Wash. Link shackle. 1,726,659; Sept. 3.
- Feagley, Joseph C., assignor to Armstrong Cork Company, Lancaster, Pa. Box-toe blank. 1,735,383; Nov. 12.
- Featheredge Rubber Company. (See Hood, Harry M., assignor.)
- Feazell, Wilson T., et al. (See Hobson, John H., assignor.)
- Febles, Ramon, San Antonio, Tex., assignor of one-third to J. Y. Brown and one-third to G. P. Gill. Apparatus for casing and preserving the natural color of leaf tobacco. 1,704,597; Mar. 5.
- Febrey, Harold H., Newark, N. J., assignor to The American Steel and Wire Company of New Jersey. Rail bond. 1,701,104; Feb. 5.
- Febrey, Harold H., Newark, N. J., assignor to The American Steel and Wire Company of New Jersey. Rail bond. 1,712,426; May 7.
- Fecher, Frederick F., Rockville Center, N. Y. Duplicator. 1,716,807; June 4.
- Fecht, Hermann, assignor to Kohlenscheidungs-Gesellschaft m. b. H., Berlin, Germany. 1,729,037; Sept. 24.
- Fedco Number Plate Corporation. (See Wheeler, William H., assignor.)
- Fedden, Alfred H. R., assignor to The Bristol Aeroplane Company, Limited, Bristol, England. Gearing for driving a rotary compressor on an internal-combustion engine. 1,729,509; Sept. 24.
- Fedderman, George C., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich. Hold-down device for automobiles. 1,739,827; Dec. 17.
- Fedderman, George C., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich. Hold-down device. 1,739,828; Dec. 17.
- Fedderman, George C., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich. Device for holding automobiles in freight cars. 1,739,829; Dec. 17.
- Fedderman, George C., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich. Hold-down apparatus for freight cars and the like. 1,739,893; Dec. 17.
- Fedders, John M., assignor to Fedders Manufacturing Company Inc., Buffalo, N. Y. Radiator core. 1,717,348; June 11.
- Fedders Manufacturing Company. (See Slagel, Franklin G., assignor.)
- Fedders Manufacturing Company Inc. (See Fedders, John M., assignor.)
- Feddersen, Adolf, Murdo, S. Dak. Toy elephant. 1,697,851; Jan. 1.
- Feddersen, Marvin H., Des Moines, Iowa. Soil-test outfit. 1,710,156; Apr. 23.
- Federal Asbestos & Cork Insulation Co. (See Bond, Jayson K., assignor.)
- Federal Electric Company. (See Berggren, Nels, assignor.)
- Federal Electric Company. (See Hall, Lee, assignor.)
- Federal Glass Company, The. (See Beatty, Robert J., assignor.)
- Federal Glass Company, The. (See Blackburn, Fred J., assignor.)
- Federal Glass Company, The. (See Cornwell, V. O., and Blackburn, assignors.)
- Federal Glass Company, The. (See Dunbar, George S., assignor.)
- Federal Glass Company, The. (See Dunbar, G. S., and Scholes, assignors.)
- Federal Laboratories, Inc. (See Bradner, D. B., and Oglesby, assignors.)
- Federal Mail Box Co., The. (See Ward, James H., jr., assignor.)
- Federal Metal Hose Corporation. (See Palmer, Charles, assignor.)
- Federal Mogul Corporation. (See Smith, Salem, assignor.)
- Federal Motor Truck Co. (See Ingersoll, George B., assignor.)
- Federal Phosphorus Company. (See Booth, C. F., and Gerber, assignors.)
- Federal Phosphorus Company. (See Carothers, J. N., and Booth, assignors.)
- Federal Phosphorus Company. (See Lloyd, S. J., and Kennedy, assignors.)
- Federal Pressed Steel Company. (See Tinker, Herbert W., assignor.)
- Federal Products Corporation. (See Tingley, Leonard C., assignor.)
- Federal Steel Sash Company. (See Kuney, Clarence F., assignor.)
- Federal Telegraph Company. (See Brower, William, assignor.)
- Federal Telegraph Company. (See Brower, William M., assignor.)
- Federal Telegraph Company. (See Kolster, Frederick A., assignor.)
- Federal Telegraph Company. (See Storm, Hans O., assignor.)
- Federal Telephone Manufacturing Corporation. (See Horle, Lawrence C. F., assignor.)
- Federico, Joseph, Newark, N. J. Combination brush and spray device. 1,713,647; May 21.
- Federle, Joseph C., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,735,163; Nov. 12.
- Federmann, Hugo, Berlin, Germany. Removing nicotine from tobacco. 1,719,291; July 2.
- Federwitz, Theodore A., assignor to Stokes and Smith Company, Philadelphia, Pa. Sheet feeder and conveyor. 1,741,412; Dec. 31.
- Fee, Frank J. (See Clark, Ezra E., assignor.)
- Feeley, Frank G., assignor to E. D. Jones & Sons Co., Pittsfield, Mass. Beater roll. 1,702,633; Feb. 19.
- Feeney, Thomas L., and H. Godoy, assignors to Sentry Safety Control Corporation, Philadelphia, Pa. Dowsing unit for motion-picture-projecting machines. 1,725,574; Aug. 20.
- Feer, Maxime, London, England. Thread-cutting device for thimbles. 1,705,007; Mar. 12.
- Feerick, Ralph C., Milwaukee, Wis. Casket headrest. 1,731,528; Oct. 15.
- Fegely, Nathan M. (See Bushman, Robert P. and E. L., and Fegely.)
- Fegles, Donald B., Minneapolis, Minn. Grain-handling apparatus. 1,732,463; Oct. 22.
- Fehlhaber, Fred R., New York, N. Y. Bending tool. 1,736,585; Nov. 19.
- Fehling, Johann, Scheessel, Germany. Apparatus for preventing unauthorized use of motor vehicles. 1,724,918; Aug. 20.
- Fehr, John R., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,718,281; June 25.
- Fehr, Roy B., East Cleveland, assignor to Una Welding & Bonding Company, Cleveland, Ohio. Welding electrode holder. 1,721,296; July 16.
- Fehringer, Charles E., East St. Louis, and V. M. Lane, Maple Park, Ill. Retarder for rolling stock. 1,727,163; Sept. 3.
- Fehse, Adolf, Berlin, Germany, assignor to General Electric Company. Method of and apparatus for making concentrated filaments. 1,726,480; Aug. 27.
- Fehse, Werner, Gross-Lichterfeld, West, and W. Hagen, Berlin, Germany, assignors to General Electric Company. Seal and making the same. 1,740,397; Dec. 17.
- Feiber, Melville, Chicago, Ill. Floor ventilator. 1,704,661; Mar. 5.
- Feicht, Joseph. (See Kautz, Frederick, assignor.)
- Feigel, George R., Chicago, Ill. Automatic take-up piston. 1,738,047; Dec. 3.
- Feigleson, Joseph, Brooklyn, N. Y. Changeable shirt front. 1,733,954; Oct. 29.
- Feild, Alexander L., Elmhurst, N. Y., assignor to Electro Metallurgical Company. Making vanadium steel. 1,697,759; Jan. 1.
- Feild, Bert D., London, and T. C. Standbrook, Ilford, assignors to Stanfield Radio Company, Limited, London, England. Potential supply means. 1,741,017; Dec. 24.
- Feinberg, Archie, Chicago, Ill., and I. M. Halverson, Boone, Iowa, assignors to Arctic Nu-Air Corporation, Chicago, Ill. Rotor for blowers. 1,704,123; Mar. 5.
- Feinberg, Archie, Chicago, Ill., and H. Rathner, New York, N. Y., assignors to Arctic Nu-Air Corporation, Chicago, Ill. Blower unit. 1,713,648; May 21.
- Feinberg, Justin G., Chicago, Ill., assignor to Heywood-Wakefield Company, Boston, Mass. Folding theater chair. Des. 78,960; July 9.
- Feister, George F., Maricopa, Calif. Apparatus for halving carcasses. 1,699,695; Jan. 22.
- Feit, Abraham. (See Feit, Hyman, assignor.)
- Feit, Hyman, Brooklyn, assignor to A. Feit, New York, N. Y. Pocket. 1,734,422; Nov. 5.
- Feit, Paul P., assignor to The Timken Roller Bearing Company, Canton, Ohio. Air-control device. 1,715,125; May 28.
- Feitel, Daniel W., Brooklyn, N. Y. Cleaning apparatus. 1,702,821; Feb. 19.
- Fejes, Ludwig and B. Böttcher, assignors to the firm Elektro-Osmose Aktiengesellschaft (Graf Schwerin Gesellschaft), Berlin, Germany. Medical serum. 1,718,282; June 25.
- Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Door latch. 1,715,996; June 4.
- Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Brake-lever attachment. 1,715,997; June 4.
- Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Frame for automobiles. 1,731,615; Oct. 15.
- Fekete, Stephen I., assignor to Hudson Motor Car Company, Detroit, Mich. Brake-lever extension. 1,734,249; Nov. 5.



- Fekete, Stephen L., and S. G. Baits, Detroit, and H. M. Northrup, Grosse Pointe Park, assignors to Hudson Motor Car Company, Detroit, Mich. Oil purifier for internal-combustion engines. 1,732,645; Oct. 22.
- Fekete, Stephen L., Detroit, and H. M. Northrup, Grosse Pointe Park, assignors to Hudson Motor Car Company, Detroit, Mich. Tappet-adjusting screw. 1,713,597; May 21.
- Fekete, Stephen L., and M. H. Toncray, assignors to Hudson Motor Car Company, Detroit, Mich. Motor vehicle. 1,699,783; Jan. 22.
- Feketis, George, Pelham Bay, N. Y. Swimming glove. 1,740,290; Dec. 17.
- Felch-Blake, Charles E., Habana, Cuba. Apparatus for purifying used lubricating oil. 1,723,023; Aug. 6.
- Felch, Don H. W., Maywood, Ill., assignor to The Richardson Company, Lockland, Ohio. Hydraulic press. 1,731,891; Oct. 15.
- Feldheim, Felix S. (See Karbowski, Victor, assignor.)
- Feldman, Abraham G., Chicago, Ill. Juvenile vehicle. 1,701,670; Feb. 12.
- Feldman, Abraham G., Chicago, Ill. Infant's collapsible bathtub. 1,735,965; Nov. 19.
- Feldman, Edward D., Albany, N. Y., assignor to Pencil Mechanism Corporation. Step-by-step lead pencil. 1,700,255; Jan. 29.
- Feldman, Edward D., New York, N. Y., assignor to Pencil Mechanism Corporation. Magazine lead pencil. 1,700,256; Jan. 29.
- Feldman, Edward D., New York, N. Y., assignor to Pencil Mechanism Corporation. Magazine lead pencil. 1,700,257; Jan. 29.
- Feldman, Harry, assignor to The Peele Company, Brooklyn, N. Y. Hanger for elevator doors. 1,702,255; Feb. 19.
- Feldman, Harry, assignor to The Peele Company, Brooklyn, N. Y. Pass-type elevator door. 1,727,399; Sept. 10.
- Feldman, Hiram H., Pittsburgh, Pa. Table. 1,735,535; Nov. 12.
- Feldman, Isaac, Philadelphia, Pa. Combination oil receiver and guard for sewing machines. 1,741,454; Dec. 31.
- Feldman, J. M., Co. (See Holdeman, Harry R., assignor.)
- Feldman, Philip, and M. Yacker, Brooklyn, N. Y. Interior partition. 1,739,830; Dec. 17.
- Feldmar, Adalbert E., Berlin-Schöneberg, Germany. Stone drill. 1,737,495; Nov. 26.
- Feldmeier, Harvey, Little Falls, and C. F. Wray, Rochester, assignors to D. H. Burrell & Co., Inc., Little Falls, N. Y. Valve structure. 1,721,877; July 23.
- Feldstein, Ben J., New York, N. Y. Rattle. 1,720,038; July 9.
- Felix, Frank C., Ambridge, assignor to National Metal Molding Company, Pittsburgh, Pa. Conduit fastener. 1,710,157; Apr. 23.
- Felix, Friedrich, and O. Allemann, Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuff preparation and making same. 1,733,057; Oct. 22.
- Fell, Charles, Elyria, Ohio, assignor to National Tube Company. Pipe skelp. 1,698,584; Jan. 8.
- Fel, James R., assignor of one-half to W. F. Dillard, Haleyville, Ala. Cultivator. 1,719,694; July 2.
- Fellers, Frank L., Sebastopol, Calif. Combined traction wheel and power take-off device for motor vehicles. 1,731,529; Oct. 15.
- Fellmer, Ernst, Leverkusen, near Cologne, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Green dischargeable silk dyestuffs. 1,699,427; Jan. 15.
- Fellmer, Ernst, Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Trisazo dyestuff. 1,736,905; Nov. 26.
- Fellowes, Frank, Sutton Coldfield, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Tire. Des. 78,459; May 7.
- Fellowes, Walter A., Chicago, Ill. Knockdown paper box. 1,724,648; Aug. 13.
- Fellows, Edwin R., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Generating accurately-finished gears. 1,698,882; Jan. 15.
- Fellows Gear Shaper Company, The. (See Fellows, Edwin R., assignor.)
- Fellows, John A., assignor to Diebold Safe & Lock Company, Canton, Ohio. Vault door. 1,715,191; May 28.
- Fellows, Walter C., Philadelphia, Pa., assignor to C. R. Carver Company. Hand protector for presses. 1,718,549; June 25.
- Fellows, Walter C., Philadelphia, Pa., assignor to C. R. Carver Company. Finger guard for presses. 1,735,855; Nov. 19.
- Fells, Lent, Cantor, Katz Corporation. (See Katz, Martin, assignor.)
- Felsenfeld, Jack J., Brooklyn, N. Y. Bracelet clasp for wrist watches. 1,738,767; Dec. 10.
- Felt & Tarrant Manufacturing Company. (See Turck, Joseph A. V., assignor.)
- Felt, Joseph, Detroit, Mich. Radial aero engine. 1,708,611; Apr. 9.
- Felten and Guillaume Carlswerk Actiengesellschaft. (See Meurer, H., and Silbermann, assignors.)
- Felten & Guillaume Carlswerk Actien-Gesellschaft. (See Meyer, Ulfilas, assignor.)
- Felten & Guillaume Carlswerk Actien-Gesellschaft. (See Schürer, Eugen, assignor.)
- Felten and Guillaume Carlswerk Actiengesellschaft. (See Vogel, Wilhelm, assignor.)
- Felten, Leonard, Pokegama Township, Pine County, Minn. Inlet fitting. 1,716,544; June 11.
- Feltes, Frank L., Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa. Piston-casting machine. 1,722,371; July 30.
- Feltes, Frank L., Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa. Molding machine. 1,722,414; July 30.
- Felton, Leo D., St. Paul, Minn. Collapsible paper shipping basket. 1,707,788; Apr. 2.
- Felts, Fletcher E., Los Angeles, Calif. Switching system for suspended railways. 1,696,946; Jan. 1.
- Felver, Minor W., and R. A. Johnson, Delano, Calif. Coin-controlled dispensing mechanism for visible pumps. 1,705,755; Mar. 19.
- Felver, Minor W., and R. A. Johnson, Delano, Calif. Liquid dispenser. 1,707,462; Apr. 2.
- Felver, Minor W., and R. A. Johnson, Delano, Calif. Coin-controlled liquid dispenser. 1,710,924; Apr. 30.
- "Fenag" Aktiengesellschaft. (See Schneider, F., and Singer, assignors.)
- Fenberg, Bror O. E., New York, N. Y. Building block. 1,699,351; Jan. 15.
- Fender, Joseph N., Dallas, Tex., assignor to Elk Manufacturing Company, Elk City, Okla. Universal joint for pneumatic conveyers. 1,700,311; Jan. 29.
- Fenhagen, Frank D., Fairmont, W. Va.; F. H. Rhodes, Ithaca, N. Y.; and T. M. Hesser, Germantown, Pa., assignors to The Barrett Company. Process and apparatus for fractional condensation. 1,735,455; Nov. 12.
- Fenn, Margaret F. (See Fenn, William B., assignor.)
- Fenn, William B., assignor to M. F. Fenn, Port Washington, N. Y. Sealing containers. 1,728,533; Sept. 17.
- Fenn, William B., assignor to M. F. Fenn, Port Washington, N. Y. Container and valve and employing the same. 1,732,227; Oct. 22.
- Fenn, Wilson A. (See Bergmann, C. N., Taylor, Jensen, and Fenn.)
- Fennell, Charles H., Detroit, Mich. Testing stand. 1,740,167; Dec. 17.
- Fennell, Eleanor, New York, N. Y. Game for teaching multiplication. 1,719,103; July 2.
- Fenner, Miner E., Sumner, Nebr. Carrier and dropping board for poultry. 1,719,974; July 9.
- Fenno, George F., Swarthmore, Pa. Soot removal. 1,707,803; Apr. 2.
- Fenske, Charles J., Pittsburgh, Pa. Railway journal-box protector. 1,724,919; Aug. 20.
- Fensky, Charles, St. Louis, Mo. Audiphone. 1,717,880; June 18.
- Fenton, Almon N., Collingswood, N. J., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Power supply for thermionic devices. 1,741,691; Dec. 31.
- Fenton, Lorain J., Detroit, Mich., assignor to The International Steel Tie Company, Cleveland, Ohio. Railroad tie clamp for street railways. 1,709,343; Apr. 16.
- Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Self-locking pin fastener. 1,726,890; Sept. 3.
- Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Self-locking pin fastener. 1,728,112; Sept. 10.
- Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Resilient snap-fastener element. 1,732,837; Oct. 22.
- Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Self-locking slide loop. 1,741,619; Dec. 31.
- Fentress, George E., assignor of one-half to H. H. Isaacs, Los Angeles, Calif. Antifriction pipe protector. 1,737,578; Dec. 3.
- Fentress, George E., Los Angeles, Calif. Pinned-sucker-rod protector. 1,714,594; May 28.
- Fentress, George E., R. D. Bane, and M. L. Black, Los Angeles, Calif. Telescoping finger board. 1,720,828; July 16.
- Ferebee, Rebecca, Brooklyn, N. Y. Mail box. 1,708,383; Apr. 9.
- Fereck, John, Frum, W. Va. Combination hose and supporter. 1,741,512; Dec. 31.
- Fereday, Frederick T., Louisville, Ky., assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-traffic controlling apparatus. 1,709,907; Apr. 23.
- Ferenci, Lester, Brooklyn, N. Y., assignor to American Machine & Foundry Company. Automatic slip coupling. 1,710,694; Apr. 30.
- Ferenci, Lester, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Bunch transfer for cigar machines. 1,721,551; July 23.
- Ferguson, Alexander D., Michigan City, Ind., assignor to Sullivan Machinery Company. Tongs. 1,702,822; Feb. 19.
- Ferguson, Alonzo W., assignor of one-half to C. A. Ray, one-eighth to J. M. Pope, and one-eighth to M. B. Taylor, De Noya, Okla. Pump jack. 1,729,664; Oct. 1.
- Ferguson, Alonzo W., Denoya, Okla. Skid. 1,699,882; Jan. 22.
- Ferguson, Berlin S. (See Jacoby, B., Shelton, Ferguson, and Jennings.)
- Ferguson, Berlin S., assignor to The Marion Steam Shovel Company, Marion, Ohio. Brake. 1,727,539; Sept. 10.



- Ferguson Brothers Manufacturing Company. (See Hanley, William, assignor.)
- Ferguson Bros. Mfg. Co. (See Wagner, Andrew, assignor.)
- Ferguson, Edwin M. (See Barton, A. W., Du Lac, and Ferguson.)
- Ferguson, Frank C., assignor to David Lupton's Sons Company, Philadelphia, Pa. Bolt. 1,705,086; Mar. 12.
- Ferguson, George, Winterthur-Wuldingen, assignor to the firm Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Intermittently-operating absorption refrigerating machine. 1,726,699; Sept. 3.
- Ferguson, George K. S., North East, Pa. Packaging fruit and the like. 1,732,264; Oct. 22.
- Ferguson, Herman B., Philadelphia, Pa. Hanger for garment bags. 1,720,393; July 9.
- Ferguson, James F., Grandfield, Okla. Cotton harvester. 1,712,606; May 14.
- Ferguson, James R., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,698,052; Jan. 8.
- Ferguson, Roy A., Minneapolis, Minn. Implement hitch. 1,726,660; Sept. 3.
- Ferguson, William I., Chicago, Ill. Water-heating apparatus. 1,741,455; Dec. 31.
- Ferguson, William T., Birds, assignor of one-half to O. L. Cunningham, Lawrenceville, Ill. Post for supporting fishing rods. 1,716,220; June 4.
- Ferguson, William T., Birds, assignor of one-half to O. L. Cunningham, Lawrenceville, Ill. Fishing-rod support. 1,719,695; July 2.
- Ferguson and Lange Foundry Company. (See Pfender, Adolph, assignor.)
- Ferlin, John J., Los Angeles, and T. A. Creighton, Ventura, Calif. Piston packing for pumps. 1,700,567; Jan. 29.
- Ferling, George W. (See Brooks, S. F., and Ferling.)
- Fernald, Charles F., assignor of one-half to J. M. Lugo, Los Angeles, Calif. Barbecue broiler. 1,723,145; Aug. 6.
- Fernald, Charles F., Weston, Mass., assignor to Barnes & Jones, Valve. 1,738,236; Dec. 3.
- Fernald, Mark E., Southboro, assignor to C. C. Blake, Incorporated, Boston, Mass. Shank-lasting machine. 1,723,342; Aug. 6.
- Fernandez, Julio J., and E. M. Peñate, assignors to Mendez and Jimenez, Habana, Cuba. Nonrefillable bottle. 1,697,112; Jan. 1.
- Fernandez, Julio J., and E. M. Peñate, assignors to Mendez & Jimenez, Habana, Cuba. Nonrefillable bottle. 1,712,953; May 14.
- Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet glass. 1,720,547; July 9.
- Ferngren, Enoch T., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Sheet-glass leer. 1,729,164; Sept. 24.
- Ferngren, Enoch T., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Width maintainer. 1,739,959; Dec. 17.
- Ferngren, Enoch T., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Downflow sheet-glass apparatus. 1,739,960; Dec. 17.
- Fernholtz, Carl W., assignor to Fernholtz Machinery Company, Los Angeles, Calif. Apparatus for forming briquettes. 1,701,915; Feb. 12.
- Fernholtz Machinery Company. (See Fernholtz, Carl W., assignor.)
- Fernie, Thomas R., St. Annes-on-the-Sea, England. Glove. 1,716,221; June 4.
- Feroldi, Enrico, Turin, Italy. Carburetor. 1,737,496; Nov. 26.
- Ferraioli, Ramo H., New York, N. Y. Mast support. 1,720,322; July 9.
- Ferrand, Georges A., Grenoble, France. Making piping. 1,733,455; Oct. 29.
- Ferranti, Limited. (See de Ferranti, Sebastian Z., assignor.)
- Ferrari, Jean M. L., Toulon, France. Movement governor with progressive speed or race variations. 1,717,018; June 11.
- Ferrari, Jean M. L., Toulon, France. Power transmission. 1,717,019; June 11.
- Ferrari, Samuel. (See Aramburu, Domingo, assignor.)
- Ferraris, Attilio, Turin, Italy. Piston pump for corrosive liquids. 1,697,682; Jan. 1.
- Ferreby, Rolla B., Los Angeles, Calif. Revolving light. 1,711,932; May 7.
- Ferree, W. W. (See Tiller, D. M., and Ferree.)
- Ferrell, Dent. (See Crawford, J. H., Helmholtz, and Ferrell.)
- Ferrell, Dent. (See Helmholtz, A. W., and Ferrell.)
- Ferretti, Antonio, Milan, assignor to Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Treating skin products and article. 1,719,802; July 2.
- Ferretti, Julius J., Brooklyn, N. Y., assignor, by mesne assignments, to The Universal Match Corporation. Paper-match-making machine. Re17,524; Dec. 17.
- Ferrettie, Conrad. (See Van Dinter, G. L., and Ferrettie.)
- Ferrettie, Conrad, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Overshoe. Des. 79,289; Aug. 27.
- Ferrettie, Conrad, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Rubber reenforcing. 1,701,773; Feb. 12.
- Ferrettie, Conrad, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Self-closing shoe. 1,707,390; Apr. 2.
- Ferrier, Alexander I., Flint, Mich. Mechanical movement. 1,710,158; Apr. 23.
- Ferrier, James Wowan, Queensland, Australia. Rotor of cotton-picking-machine hand pieces. 1,714,553; May 28.
- Ferrier, James, Wowan, Australia. Cotton picker. 1,714,595; May 28.
- Ferrier, Norman A. (See Lye, W. R., and Ferrier.)
- Ferrier, Peter H., jr., Brookfield, Ill. Teakettle. 1,739,894; Dec. 17.
- Ferries, Vern H. (See Dott, L. P., and Ferries.)
- Ferrill, James H., et al. (See Archer, William T., assignor.)
- Ferrill, Richard M., assignor of one-half to G. N. Lemmon, Birmingham, Ala. Toy projectile with parachute. 1,723,343; Aug. 6.
- Ferris, Ervie A., Westwood, Calif. Automatic exhaust valve. 1,697,352; Jan. 1.
- Ferris, Ervie A., Westwood, assignor to Martin Air Dog Company, San Francisco, Calif. Sawmill dog. 1,724,010; Aug. 13.
- Ferris, Frank D. (See Wallace, Bruce H., assignor.)
- Ferris, Henry L., Harvard, Ill., assignor to Hunt, Helm, Ferris & Company. Track for door hangers. 1,726,290; Aug. 27.
- Ferris, Howard J., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Water bowl. 1,735,536; Nov. 12.
- Ferris, John P. (See Barrett, L. A., and Ferris.)
- Ferris, Joseph H. (See Marti, Lewis O., assignor.)
- Ferris, Ralph E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulated collector. 1,731,892; Oct. 15.
- Ferris, Reed, Harrison, N. Y. Access door. 1,716,038; June 4.
- Ferris, Wallace A., Los Angeles, Calif. Form spacer for concrete fireproofing for steel structures. 1,735,198; Nov. 12.
- Ferris, Walter, Milwaukee, Wis., and M. J. Woodhull, Chicago, Ill.; said Ferris assignor, by mesne assignments, to Bucyrus Erie Company, South Milwaukee, Wis. Ditcher or spreader for railroad work. 1,718,550; June 25.
- Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic transmission. 1,726,481; Aug. 27.
- Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Speed governor for hydraulic drives. 1,741,833; Dec. 31.
- Ferris, Willard J., assignor to Reynolds Spring Company, Jackson, Mich. Duplex receptacle. 1,726,429; Aug. 27.
- Ferris, Willard J., assignor to Reynolds Spring Company, Jackson, Mich. Single receptacle. 1,726,430; Aug. 27.
- Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Garage-door construction. 1,727,370; Sept. 10.
- Ferris, William S. (See Olson, Percy W., assignor.)
- Ferris, William S. (See Fletcher, Philip, assignor.)
- Ferris, William S., Elkhart, Ind. Chair or similar article. Des. 80,025; Dec. 3.
- Ferris, William S., Elkhart, Ind. Metallic chair. 1,711,492; May 7.
- Ferris, William S., Elkhart, Ind. Chair. 1,717,020; June 11.
- Ferris, William S., Elkhart, Ind. Back rest for chairs. 1,719,929; July 9.
- Ferris, William S., Elkhart, Ind. Chair. 1,723,415; Aug. 6.
- Ferruzzi, Giovanni, New York, N. Y. Amphibian flying machine. 1,724,755; Aug. 13.
- Ferry, Newell S., assignor to Parke-Davis & Company, Detroit, Mich. Immunizing product and producing the same. 1,717,198; June 11.
- Ferry, Richard T., Volcano, Calif. Combined swivel and rigging plate. 1,714,768; May 8.
- Ferry, Thomas, Cleveland, Ohio. Cap nut. 1,727,590; Sept. 10.
- Fertally, John, sr., Weatherly, Pa. Pneumatic cleaner. 1,728,113; Sept. 10.
- Fertel, Harry D., New York, N. Y. Coat. Des. 79,921; Nov. 19.
- Fertel, Harry D., New York, N. Y. Coat. Des. 79,922; Nov. 19.
- Fertel, Harry D., New York, N. Y. Coat. Des. 79,923; Nov. 19.
- Fesca, C. A., & Sohn. (See Langenberg, Theodor, assignor.)
- Fesler, Douglas F., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,705,285; Mar. 12.
- Fesler, Douglas F., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,720,890; July 16.
- Fesler, Douglas F., Chicago, E. W. Davis, Oak Park, and J. H. Frier, Jr., Evanston, assignors to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,720,391; July 9.
- Fessenden, Reginald A., Newton, Mass. Method and apparatus for producing and reading books. 1,732,302; Oct. 22.
- Fest, Herman P., Alhambra, Calif. Badge. 1,725,262; Aug. 20.
- Festini, Bortolo, assignor to Società Festini & C., Bergamo, Italy. Device for keeping motor-cycle driving chains evenly tight. 1,700,631; Jan. 29.



- Fetter, Charles H., Millburn, N. J., assignor to American Telephone and Telegraph Company. Recording and re-producing of sound waves. 1,707,260; Apr. 2.
- Fetter, Charles H., Millburn, N. J., assignor to American Telephone and Telegraph Company. Recording and re-producing of sound waves. 1,707,261; Apr. 2.
- Fetter, Charles H., Millburn, N. J., assignor to American Telephone and Telegraph Company. Echo-suppressor circuits. 1,711,562; May 7.
- Fetter, Charles H., Millburn, N. J., assignor to American Telephone and Telegraph Company. Wave filter. 1,735,742; Nov. 12.
- Fetter, Edward, Baltimore, Md. Fluid-pressure brake. 1,711,675; May 7.
- Fetter, Edward, Baltimore, Md. Tire-vulcanizing apparatus. 1,734,766; Nov. 5.
- Fetter, Edward, Baltimore, Md. Cord-reinforced tube. 1,740,445; Dec. 24.
- Feuerbeerd, Ernest, assignor of one-half to J. A. Malcolm, London England. Rotary engine, pump, meter, and the like. 1,700,038; Jan. 22.
- Feurstein, Harry. (See Uth, G. G. and Feurstein.)
- Fey, Edmund C., San Francisco, Calif. Game-apparatus case. Des. 77,825; Feb. 26.
- Fey, Edmund C., San Francisco, Calif. Competitive coin-controlled dispensing apparatus. 1,711,998; May 7.
- Fey, Edmund C., San Francisco, Calif. Amusement device. 1,731,655; Oct. 15.
- Fey, George W., Seattle, Wash. Fishhook-coupling device. 1,713,041; May 14.
- Feyertag, Alois, Vienna, assignor to the firm Stefan Götz & Sohne Kommandit Gesellschaft, Vienna, Austria. Automatic warning signal for railway crossings and the like. 1,731,566; Oct. 15.
- Fiant, William H., Cardington, Ohio. Straw rack for grain thrashers. 1,704,598; Mar. 5.
- Fiat Societa Anonima. (See Valletta, Vittorio, assignor.)
- Fiber Specialty Company, The. (See Reese, Clarence A., assignor.)
- Fibiger, Augustus F., assignor of one-tenth to H. H. Phipps and E. J. Edwards, Spokane, Wash., and five-tenths to C. Fibiger, trustee, Detroit, Mich. Swimming appliance. 1,712,655; May 14.
- Fibiger, Charles, et al. (See Fibiger, Augustus F., assignor.)
- Fibroc Insulation Company. (See Frederick, Louis T., assignor.)
- Fichtner, Edwin C. (See Simon, Joseph H., assignor.)
- Fichtner, Edwin C., San Francisco, and J. H. Simon, Oakland, Calif. Make-and-break device. 1,716,119; June 4.
- Fick, Reinhold, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of hydrocyanic acid. 1,712,297; May 7.
- Fickau, Charles. (See Murphy, D. L. and Fickau.)
- Ficken, Gerd, Hamburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y. Device for protecting the working of three-phase motors. 1,715,699; June 4.
- Fickett, Ernest L., and P. E. Arthur, Fitchburg, Mass., assignors, by mesne assignments, to Shaw Crane-Putnam Machine Company, Inc. Cross-rail clamp for open-side planers. 1,702,471; Feb. 19.
- Fickett, Ernest L., Fitchburg, Mass., assignor, by mesne assignments, to Scurlock Gear Corporation, New York, N. Y. Gearing. 1,719,803; July 2.
- Ficklen, William E., Washington, D. C. Waterproofing. 1,731,162; Oct. 8.
- Ficks Reed Company. (See Kirkpatrick, Marie, assignor.)
- Fidalgo, Juan, F. Orive, and F. Sansó, Buenos Aires, Argentina. Electric reducer. 1,701,916; Feb. 12.
- Fiddelke, Harry J., assignor to Hall Manufacturing Company, Chicago, Ill. Reproducing needle for talking machines, phonographs, and similar instruments. 1,739,219; Dec. 10.
- Fiddymont, Samuel C., Lockport, assignor to Pettibone Mulliken Company, Chicago, Ill. Railway switch. 1,724,571; Aug. 13.
- Fidelity Machine Company. (See Blaisdell, Sidney B., assignor.)
- Fidelity Machine Company. (See Larkin, Walter, assignor.)
- Fidelity National Bank and Trust Company et al. executors. (See Arbon, Paul.)
- Fidelity Trust Company, trustee. (See Chaplin, Merle P., assignor.)
- Fidelity Trust Company, trustee. (See Williamson, Bert R., assignor.)
- Fidler, John B., The, U. S. Army, Dover, N. J. Propellant powder charge. 1,716,314; June 11.
- Fidler, Harry E. (See Tenney, P. L., and Fidler.)
- Fiedler, Albert, Weehawken, N. J. Identifiable motion-picture print and making same. 1,704,124; Mar. 5.
- Fiegel, William J. (See Eggenweiler, C. W. and Fiegel.)
- Fiego, Alexander J. R., Lynn, Mass., assignor to General Electric Company. Piezo-electric oscillator. 1,714,012; May 21.
- Field, Arthur M., assignor to Guest Neckwear Company, Inc., Rochester, N. Y. Necktie device. 1,704,793; Mar. 12.
- Field, Crosby, Brooklyn, N. Y. Package and means for making the package. 1,730,923; Oct. 8.
- Field, Crosby, Brooklyn, N. Y. Package and means for making the package. 1,730,924; Oct. 8.
- Field, Crosby, Brooklyn, N. Y. Package and means for making the package. 1,730,925; Oct. 8.
- Field, Crosby, Brooklyn, N. Y., assignor to Brillo Manufacturing Company, Inc. Cleaning pad. 1,697,499; Jan. 1.
- Field, Crosby, Brooklyn, N. Y., assignor, by mesne assignments, to Flakice Corporation. Method and apparatus for refrigeration. 1,730,922; Oct. 8.
- Field, Crosby, Yonkers, N. Y., assignor to Chemical Machinery Corporation. Heating and controlling chemical reactions at high temperatures. 1,734,329; Nov. 5.
- Field, Edward A. (See Field, Edward A. and E. A., jr., assignors.)
- Field, Edward A., assignor to Field Engineering Co., Chicago, Ill. Oil burner. 1,714,216; May 21.
- Field, Edward A., assignor to Dangel-Field Co., Chicago, Ill. Water-tube boiler. 1,716,770; June 11.
- Field, Edward A. and E. A., jr., assignors, by mesne assignments, to E. A. Field, Chicago, Ill. Liquid-fueled device. 1,713,334; May 14.
- Field, Edward A., and E. A., jr., assignors to Field Engineering Co., Chicago, Ill. Oil burner. 1,714,217; May 21.
- Field, Egbert R., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich. Coupling for vacuum cleaners. 1,698,087; Jan. 8.
- Field Engineering Co. (See Field, Edward A., assignor.)
- Field Engineering Co. (See Field, Edward A. and E. A., jr., assignors.)
- Field, Frank E., Somerville, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,718,950; July 2.
- Field, Fred H., Philadelphia, Pa., assignor to The S. S. White Dental Manufacturing Company. Tooth-shade guide. 1,709,066; Apr. 16.
- Field, Herbert D., Los Angeles, Calif., assignor to Peerless Products Company. Polishing pad for floor waxes. 1,724,267; Aug. 13.
- Field, Herbert E., assignor to Wheeling Mold & Foundry Company, Wheeling, W. Va. Casting hollow bodies. 1,710,534; Apr. 23.
- Field, James H., New York, N. Y. Filing device, tidy, paper rack, and the like. 1,715,413; June 4.
- Field, John F., Owosso, Mich. Mixing machine. 1,739,066; Dec. 10.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Indicating system. 1,709,067; Apr. 16.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Supervisory system. 1,719,506; July 2.
- Field, Joseph G. W., Altrincham, assignor to Linotype and Machinery Limited, London, England. Typographical line-casting machine. 1,711,933; May 7.
- Field, Lloyd M. (See Wiedmaier, Arthur A., assignor.)
- Field, Oscar S., Albany, N. Y., assignor to Union Switch & Signal Co. System of train control. 1,736,397; Nov. 19.
- Field, Sjonne, Chicago, Ill. Knee caster. 1,737,836; Dec. 3.
- Fielder, Albert, Weehawken, N. J. Lubricated motion-picture film and making the same. 1,697,858; Jan. 8.
- Fielder, John B., Dansville, N. Y. Welding clamp. 1,709,716; Apr. 16.
- Fielder, Reuben E., Chicago, Ill. Driving mechanism for motor vehicles. 1,709,255; Apr. 16.
- Fielding, George T., Bridgeport, Conn., assignor to General Electric Company. Casing for electric fan motors. Des. 77,680; Feb. 12.
- Fielding, John, North Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Safety catch. 1,697,593; Jan. 1.
- Fielding, John, North Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Hinge member for ophthalmic mountings. 1,724,268; Aug. 13.
- Fielding, John, North Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Bracelet chain. 1,735,384; Nov. 12.
- Fielding, Samuel T., Pilot Mound, Iowa. Staple puller. 1,715,826; June 4.
- Fields, Charles E., assignor to The E. T. Burrowes Company, Portland, Me. Folding table. 1,697,559; Jan. 1.
- Fields, Harry B. (See Carrier, Fortunat, assignor.)
- Fields, John A., Seldovia, Alaska. Handle for cans. 1,719,398; July 2.
- Fies, Eugene. (See Derryberry, Raymond B., assignor.)
- Fieess, Albert J., Syracuse, N. Y. Combined traffic signal and tail light for automobiles or the like. Des. 79,683; Oct. 22.
- Fieux, Jean, assignor of one-half to Schneider & Cie., Paris, France. Stabilizing apparatus. 1,732,677; Oct. 22.
- Fievet, Eugene, Lille, France. Preparing machine for spinning. 1,738,099; Dec. 3.
- Fife, Kenneth E., Toronto, Ontario, Canada. Oil filter. 1,723,274; Aug. 6.
- Fifer, Bertha M., Toledo, Ohio. Burial basket. 1,708,443; Apr. 9.
- Fifield, Albert F., St. Catharines, Ontario, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail joint. 1,702,077; Feb. 12.
- Fifield, Albert F., St. Catharines, Ontario, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail anchor. 1,708,917; Apr. 9.



- Fifield, Albert F., St. Catharines, Ontario, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail anchor. 1,738,237; Dec. 3.
- Fifield, Chester C., Des Moines, Iowa. Oil retainer for valve tappets. 1,706,571; Mar. 26.
- Fikan, Frank W. and W. H., Rawlins County, Kans. Auxiliary feeding attachment for combined harvesters and thrashers. 1,728,886; Sept. 17.
- Fikan, Will H. (See Fikan, Frank W., and W. H.)
- Filature De Coton Th. Barrois, Societe Anonyme. (See Le Blan, Pierre E., assignor.)
- Filber, Edward M., Wausau, Wis. Quack-grass machine. 1,698,540; Jan. 8.
- Filbey, John W., assignor to Wrightsville Hardware Company, Wrightsville, Pa. Waffle iron. 1,708,499; Apr. 9.
- Fildes, Frederick K., Altoona, Pa. Multicontainer freight car. 1,733,726; Oct. 29.
- Filer & Stowell Co., The. (See Pelton, George M., assignor.)
- Files, Adino F., Maumee, Ohio. Dispensing device for material. 1,735,077; Nov. 12.
- Filing Equipment Bureau, Incorporated. (See Charlton, Roy H., assignor.)
- Filing Equipment Bureau, Incorporated. (See Cobb, Charles H., assignor.)
- Filkins, Arthur J., Riverside, Ill., assignor to Paul Dickinson, Incorporated. Floor vent. 1,711,523; May 7.
- Fill, Lynn A., assignor to Motor Products Corporation, Detroit, Mich. Windshield. 1,699,285; Jan. 15.
- Fillwisk Company. (See Miller, Felix B., assignor.)
- Fillya, Nicholas S., New York, N. Y. Fastening device. 1,717,671; June 18.
- Filma Oil Burners Limited. (See Reid, Ernest A., assignor.)
- Filsinger, Adolph F., St. Louis, Mo. Dyeing and lubricating thread for sewing machines. 1,715,649; June 4.
- Filtration Engineers, Inc. (See Henry, V. S., Wright, and Young, assignors.)
- Filtrators Company. (See Kitchin, Boris, assignor.)
- Filtrol Company of California. (See Baylis, Walter S., assignor.)
- Finch Corporation. (See Haveson, Herman, assignor.)
- Finch, James L., Brooklyn, N. Y., assignor to Radio Corporation of America. Alternator-field-control system. 1,728,403; Sept. 17.
- Finch, Stanley W., Washington, D. C. Needle and the like. 1,734,423; Nov. 5.
- Finch, Stanley W., Washington, D. C. Rail-tying device. 1,741,151; Dec. 31.
- Finch, William G. H., New York, N. Y. Selective transmission and reception of wireless impulses. 1,713,468; May 14.
- Finch, Willis E. (See Stimpson, W. F., and Finch.)
- Fincham, Frank L., Miami, Fla. Race track. 1,721,512; July 23.
- Fincher, Elbert H. and G. W., Goza, Okla. Cultivator. 1,739,508; Dec. 17.
- Fincher, George W. (See Fincher, Elbert H. and G. W.)
- Findeisen, Paul F., Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Loud-speaker. 1,740,446; Dec. 24.
- Findlater, John. (See Kinsey, Edmond F., assignor.)
- Findlater, Seaton M. (See Whatmough, W. A., and Findlater.)
- Findlay, Alexander C., Chicago, Ill. Combination lock. 1,711,780; May 7.
- Findlay, Robert, Jamaica, N. Y. Bath spray. 1,720,122; July 9.
- Findlay, Robert Manufacturing Company. (See Schwartz, Frederick, assignor.)
- Findley, William A., San Francisco, Calif. Calking tool. 1,721,776; July 23.
- Findriven Syndicaat. (See Meindersma, Wigger, assignor.)
- Findura, John A., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Border frame for cushion seats. 1,728,235; Sept. 17.
- Fine, Bernard M., Philadelphia, Pa. Making windshields. 1,698,262; Jan. 8.
- Fine, Bernard M., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Machine for forming articles from sheet material. 1,737,789; Dec. 3.
- Fine Cotton Spinners & Doublers Association Limited, The. (See Bellhouse, Robert L., assignor.)
- Fine, Lewis. (See Schenck, C., and Fine.)
- Finegan, Leo. (See Curry, H. M., Jr., and Finegan.)
- Finger, Paul E. (See Bonsall, C. D., and Finger.)
- Fingerman, Ira, assignor to Universal Leather Goods Company, Chicago, Ill. Pocketbook and vanity case. 1,704,040; Mar. 5.
- Finizio, Thomas D., Peekskill, N. Y. Bumper for motor vehicles. 1,741,513; Dec. 31.
- Fink, Colin G., and J. R. Beers, New York, N. Y., assignors to The American Thermos Bottle Company, Norwich, Conn. Manufacture of double-walled vacuum receptacles. 1,738,991; Dec. 10.
- Fink, Colin G., Yonkers, and R. E. Lowe, assignors to Barlo Metal Corporation, New York, N. Y. Electrodes and making the same. 1,740,291; Dec. 17.
- Fink, Ferdinand, Maplewood, N. J. Pushing apparatus. 1,728,726; Sept. 17.
- Fink, Harry L., New York, N. Y. Terrazzo strip. 1,697,093; Jan. 1.
- Fink, Harry L., New York, N. Y. Terrazzo strip. 1,725,575; Aug. 20.
- Fink, Henry A., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Machine for reforming the flanges of can bodies. 1,719,759; July 2.
- Fink, Jacob, assignor to R. J. Fink, St. Paul, Minn. Bloomers. 1,705,008; Mar. 12.
- Fink, Jacob, deceased, by R. J. Fink, administratrix, St. Paul, Minn.; said J. Fink assignor to said R. J. Fink. Leg-covering garment. Re17,525; Dec. 17.
- Fink, Rose J. (See Fink, Jacob, assignor.)
- Fink, Rose J., administratrix. (See Fink, Jacob.)
- Fink, Roy H., Chicago, Ill. Hoisting machine. 1,719,216; July 2.
- Fink, William L. (See Archer, R. S., and Fink.)
- Finkbeiner, Frederick, Ferndale, Mich. Trouble welding light. 1,726,550; Sept. 3.
- Finkbone, Benjamin P., assignor to The American Rolling Mill Company, Middletown, Ohio. Galvanizing apparatus. 1,740,081; Dec. 17.
- Finkelstein, Hans, and H. Häuber, Uerdingen, assignors to T. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Preparing 1-phenyl-3-methyl-5-pyrazolone. 1,723,545; Aug. 6.
- Finkelstein, Harry L., assignor to Manhattan Terrazzo Brass Strip Co. Inc., New York, N. Y. Strip-forming machine. 1,737,367; Nov. 26.
- Finkelstein, Morris, Brooklyn, N. Y. Hair piece and attaching comb therefor. 1,714,358; May 21.
- Finkelstein, William, Philadelphia, Pa. Handle. 1,705,858; Mar. 19.
- Finkelstein, William, Philadelphia, Pa. Hand-bag structure. 1,705,912; Mar. 19.
- Finkle, Melik, New York, N. Y., assignor to The Geo. H. Bowman Company, Cleveland, Ohio. Sugar bowl. Des. 79,132; Aug. 6.
- Finkle, Melik, New York, N. Y., assignor to The Geo. H. Bowman Company, Cleveland, Ohio. Casserole. Des. 79,133; Aug. 6.
- Finkle, Melik, New York, N. Y., assignor to The Geo. H. Bowman Company, Cleveland, Ohio. Plate. Des. 79,355; Sept. 10.
- Finklestein, Everett L., Dorchester, assignor to Sunshine Incorporated, Lynn, Mass. Light reflector. 1,738,426; Dec. 3.
- Finlay, James W., University City, Mo., assignor to Pierce Petroleum Corporation, Wilmington, Del. Lubricating composition and making the same. 1,699,961; Jan. 22.
- Finlayson, Don N., Flat Rock, Mich. Chuck. 1,714,013; May 21.
- Finley, Charles A., Rutherford, N. J., assignor to Boorun & Pease Company, Brooklyn, N. Y. Loose-leaf post binder. 1,730,130; Oct. 1.
- Finley, Dozier, Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Strip shingle. 1,724,269; Aug. 13.
- Finley, Ira S., Columbus, Ohio. Door jamb. 1,718,813; June 25.
- Finley, Robert H., New Haven, Conn. Air speed and course indicator and recorder for aircraft. 1,724,081; Aug. 13.
- Finley, Sam E., Atlanta, Ga. Preparing road-surfacing compositions in situ. 1,729,573; Sept. 24.
- Finley, Sam E., Atlanta, Ga. Apparatus for preparing road-surfacing compositions in situ. 1,729,574; Sept. 24.
- Finley, Thomas M., St. Louis, Mo. Flying machine. 1,728,404; Sept. 17.
- Finn, Abraham, Elizabeth, N. J. Automobile bumper. 1,703,030; Feb. 19.
- Finn, Abraham, Elizabeth, N. J. Safety device for automobiles. 1,735,743; Nov. 12.
- Finn, Eli A., New York, N. Y. Safety automatic operating means for pilot lights. 1,731,196; Oct. 8.
- Finn, Eli A., New York, N. Y. Safety lighter for gas stove burners. 1,731,197; Oct. 8.
- Finn, Norman T., Everett, Wash. Rope-holding clip. 1,714,770; May 28.
- Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Washer-stacking machine. 1,698,785; Jan. 15.
- Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Conveying system. 1,698,786; Jan. 15.
- Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating system. 1,719,175; July 2.
- Finn, Vincent P. (See Reader, E. C., and Finn.)
- Finne, Oscar, Brainerd, Minn. Hook. 1,723,416; Aug. 6.
- Finnegan, Florence H. (See Martin, A., and Finnegan.)
- Finnegan, Wilfred A., Bangor, Me. Holder for Christmas trees, etc. Re17,505; Nov. 26.
- Finnegan, Wilfred A., Bangor, Me. Holder for Christmas trees, etc. 1,706,223; Mar. 19.
- Finnell, James M., Omaha, Nebr., and E. P. Greve, Shelby, Iowa. Damper for oil-burning stoves. 1,706,959; Mar. 26.
- Finnessy, James E., Pittsburgh, Pa. Combination hook. 1,731,408; Oct. 15.
- Finney, James M. (See Schroeder, Anthony, assignor.)
- Finney, James M. et al. (See Rieke, Theodore W., assignor.)
- Finney, Knute I., Chicago, Ill. Finger board for musical instruments. 1,719,604; July 2.



- Finnigan, George P., deceased, Philadelphia, Pa., and T. W. Varley, New York, N. Y.; J. E. Finnigan, C. R. Parmele, and M. G. Finnigan, executors, assignors to General Railway Signal Company. Electric signaling system. 1,720,647; July 9.
- Finnigan, J. Earl, et al., executors. (See Finnigan, G. P., and Varley.)
- Finnigan, McC. George, et al., executors. (See Finnigan, G. P., and Varley.)
- Fino, Henry L., Milford, Mass. Stake retainer. 1,728,481; Sept. 17.
- Finsen, Eyvind. (See Gleason, J. E., Finsen, and Webster.)
- Finstad, Thea, Minneapolis, Minn. Mop pail with wringing attachment. 1,722,130; July 23.
- Finver, Louis, Brooklyn, assignor to Peltz, Bohman, Finver, Inc., New York, N. Y. Umbrella or the like. 1,701,067; Feb. 5.
- Finzer, Edward G., Sugar Creek, Ohio. Portable kiln stack blower. 1,721,336; July 16.
- Flore, Carmine, New York, N. Y. Hot-water table. 1,734,667; Nov. 5.
- Flore, Lorenzo A., assignor of one-half to T. M. Rinaldi, J. Timpano, and J. Trovato, Baltimore, Md. Non-sinkable device for submatines. 1,703,816; Feb. 26.
- Flori, Albert, Milwaukee, Wis. Statuette. Des. 77,681; Feb. 12.
- Flori, Albert, Milwaukee, Wis. Frame for pictures, mirrors, or similar articles. Des. 79,461; Sept. 24.
- Firebar Corporation. (See Buckley, John J., assignor.)
- Fireproof Wall Company. (See Makowski, John F., assignor.)
- Fireproof Wall Company. (See Thurman, W. B., and Hild, assignors.)
- Firestone-Apsley Rubber Company. (See Baker, Charles H., assignor.)
- Firestone-Apsley Rubber Company. (See Benner, Winthrop W., assignor.)
- Firestone Footwear Company. (See Baker, Charles H., assignor.)
- Firestone, James F., assignor to The Beckwith Company, Dowagiac, Mich. Draft control for furnaces and the like. 1,710,695; Apr. 30.
- Firestone, James F., assignor to The Beckwith Company, Dowagiac, Mich. Stove structure. 1,721,619; July 23.
- Firestone, James F., assignor to The Beckwith Company, Dowagiac, Mich. Radiator for hot-air furnaces. 1,721,620; July 23.
- Firestone, James F., assignor to The Beckwith Company, Dowagiac, Mich. Gas oven. 1,726,735; Sept. 3.
- Firestone Steel Products Company, The. (See Brown, Archie M., assignor.)
- Firestone Steel Products Company, The. (See Kuhn, Max O., assignor.)
- Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
- Firestone Steel Products Company, The. (See Woodward, Alva W., assignor.)
- Firestone Steel Products Company, The. (See Woodward, A. W., and Kuhn, assignors.)
- Firestone Tire and Rubber Company, The. (See Brown, Roy W., assignor.)
- Firestone Tire and Rubber Company, The. (See Cardarelli, F. T., and La Barre, assignors.)
- Firestone Tire and Rubber Company, The. (See Gillespie, Richard L., assignor.)
- Firestone Tire and Rubber Company, The. (See Myers, N. H., and Leach, assignors.)
- Firestone Tire and Rubber Company, The. (See Myers, N. H., and Sords, assignors.)
- Firestone Tire and Rubber Company, The. (See Pade, Max H., assignor.)
- Firestone Tire and Rubber Company, The. (See Pade, M. H., and Myers, assignors.)
- Firestone Tire and Rubber Company, The. (See Putt, Edward D., assignor.)
- Firestone Tire & Rubber Company, The. (See Smith, Clyde L., assignor.)
- Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
- Firestone Tire & Rubber Company, The. (See Stevens, William C., assignor.)
- Firestone Tire and Rubber Company, The. (See Tenney, Frederick H., assignor.)
- Firestone Tire and Rubber Company, The. (See Vachon, William P., assignor.)
- Firshing, Joseph A., Utica, N. Y. Take-up mechanism. 1,719,005; July 2.
- Firshing, Joseph A., Utica, N. Y. Auxiliary presser-foot attachment for sewing machines. 1,733,870; Oct. 29.
- First Mahlon E. Lakewood, assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Material-handling mechanism. 1,701,750; Feb. 12.
- First National Bank & Trust Company, administrator. (See Farnham, Carl O.)
- First National Bank and Trust Company of Pearl River, The, executor. (See Christophel, Carl E.)
- First National Bank of Johnstown, Pa., The, administrator. (See Blough, Hiram H.)
- First Trust & Savings Bank of Pasadena, trustees. (See Key, James F., assignor.)
- Firth, Frank B. (See Hadfield, Claude, assignor.)
- Fisch, Henry W., Los Angeles, Calif. Hydraulic clean-out device. 1,734,206; Nov. 5.
- Fisch, Walter, Jersey City, N. J. Combined shock absorber and jack. 1,701,232; Feb. 5.
- Fisch, William, Atlanta, Ga. Artificial surf-bathing pool. 1,701,842; Feb. 12.
- Fisch, William, Atlanta, Ga. Artificial bathing pool. 1,718,951; July 2.
- Fischbeck, William J., Los Angeles, Calif. Drainpipe cleaner. 1,721,106; July 16.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Constructional material. Re17,369; July 9.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion joint. 1,706,110; Mar. 19.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion joint. 1,711,934; May 7.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Roofing attachment. 1,723,927; Aug. 6.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Constructional material. 1,726,612; Sept. 3.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Constructional material. 1,726,613; Sept. 3.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion-joint material. 1,728,114; Sept. 10.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion joint. 1,728,115; Sept. 10.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Oblique shingle slab. 1,729,212; Sept. 24.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Composition of matter. 1,730,000; Oct. 1.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Apparatus for manufacture of sheet surfacing materials. 1,730,065; Oct. 1.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion joint. 1,730,066; Oct. 1.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion joint. 1,730,067; Oct. 1.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Rail filler. 1,730,068; Oct. 1.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Container form for expansion joints. 1,731,334; Oct. 15.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Method of and apparatus for producing expansion-joint spaces in concrete or the like structures. 1,731,335; Oct. 15.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Preformed rail filler. 1,731,336; Oct. 15.
- Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Expansion joint. 1,735,270; Nov. 12.
- Fischer, Alois, Vienna, Austria. Uniting radioactive material with a metallic carrier. 1,718,899; June 25.
- Fischer, Anna M., Los Angeles, Calif. Exercising or molding tool for facial treatments. 1,723,024; Aug. 6.
- Fischer, Anthony C., Chicago, Ill. Scaffold-suspension device. 1,725,183; Aug. 20.
- Fischer, Arthur I., assignor to M. H. Glauber, Cleveland, Ohio. Pipe-heading tool. 1,724,920; Aug. 20.
- Fischer, August C., Newark, N. J. Drying rack. 1,698,753; Jan. 15.
- Fischer, Carl, West Homestead, Pa. Electric connector. 1,731,893; Oct. 15.
- Fischer, Carl, West Homestead, Pa. Electric connector. 1,731,973; Oct. 15.
- Fischer, Charles, Jr., Wyoming, and W. T. Reddish, assignors to The Twitchell Process Company, Cincinnati, Ohio. Obtaining pure mineral-oil sulphonates. 1,703,838; Feb. 26.
- Fischer, Charles Jr., Wyoming, and W. T. Reddish, Cincinnati, Ohio, assignors to The Kontol Company, Dallas, Tex. Treating emulsions. 1,710,159; Apr. 23.
- Fischer, Charles, Jr., Wyoming, and W. T. Reddish, Cincinnati, Ohio, assignors to The Kontol Company, Dallas, Tex. Treating emulsions. 1,727,164; Sept. 3.
- Fischer, Charles, Jr., Wyoming, and W. T. Reddish, Cincinnati, Ohio, assignors to The Kontol Company, Dallas, Tex. Reclaiming oil. 1,727,165; Sept. 3.
- Fischer, Charles, Jr., and W. T. Reddish, assignors to The Twitchell Process Company, Cincinnati, Ohio. Removing oil from mineral-oil-sulphonic bodies. 1,731,716; Oct. 15.
- Fischer, Charles, Jr., Wyoming, and W. T. Reddish, assignors to The Twitchell Process Company, Cincinnati, Ohio. Sulphonic body. 1,734,369; Nov. 5.
- Fischer, Charles, Jr., Wyoming, and L. A. Stegemeyer, assignors to The Twitchell Process Company, Cincinnati, Ohio. Treating metal to remove scale. 1,736,282; Nov. 19.
- Fischer, Charles A., assignor to The Twentieth Century Machinery Company, Milwaukee, Wis. Bottle-washing machine. 1,708,694; Apr. 9.
- Fischer, Edward L., Davenport, Iowa. Gas-generating apparatus. 1,736,586; Nov. 19.
- Fischer, Erich. (See Elchweide, H., Fischer, and Sieglitz.)
- Fischer, Erich. (See Risse, F., and Fischer.)



- Fischer, Erich. (See Wagner, H., and Fischer.)  
 Fischer, Erich. (See Wagner, H., Eichwede, and Fischer.)  
 Fischer, Erich, Höchst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Di-niro-halogenaryls and preparing same. 1,709,256; Apr. 16.  
 Fischer, Erich, and C. E. Müller, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuff and preparing same. 1,706,484; Mar. 26.  
 Fischer, Ernst, Berlin-Tempelhof, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Distant-communication cable. 1,697,233; Jan. 1.  
 Fischer, Ernst, Berlin-Tempelhof, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Manufacturing long-distance telegraph and telephone cables. 1,734,207; Nov. 5.  
 Fischer, Felix, Sheboygan, Wis. Circuit closer. 1,720,594; July 9.  
 Fischer, Ferdinand, Berlin, Germany. Offset-printing machine. 1,718,900; June 25.  
 Fischer, Frank J. (See Arzt, F., and Fischer.)  
 Fischer, Franz, Mulheim-on-the-Ruhr, Germany. Purifying gases from organically combined sulphur. 1,741,834; Dec. 31.  
 Fischer, Gustav, Elizabeth, N. J. Necktie threader. 1,730,415; Oct. 8.  
 Fischer, Heinrich, Cincinnati, Ohio. Removing soap from its container. 1,729,068; Sept. 24.  
 Fischer, Herbert, and L. Grodnitzky, Darmstadt, Germany. Pressure closure apparatus. 1,728,482; Sept. 17.  
 Fischer, Herman A., Worcester, Mass. Rolling-mill bearing. 1,723,928; Aug. 6.  
 Fischer, Howard L., St. Paul, Minn. Calendar and display sign. 1,716,222; June 4.  
 Fischer, Howard L., St. Paul, Minn. Pencil. 1,729,165; Sept. 24.  
 Fischer, Howard L., St. Paul, Minn. Key case. 1,738,698; Dec. 10.  
 Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Combined penholder and calendar. Des. 80,077; Dec. 10.  
 Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Calendar. 1,700,762; Feb. 5.  
 Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. 1,736,194; Nov. 19.  
 Fischer, Jacob J., Newark, N. J. Jewel setting or similar article. Des. 78,567; May 21.  
 Fischer, Jacob P., Brooklyn, assignor to Eugene, Ltd., New York, N. Y. Clip and scalp protector. 1,740,292; Dec. 17.  
 Fischer, John H., assignor to Eagle Pencil Company, New York, N. Y. Pencil. 1,723,146; Aug. 6.  
 Fischer, John H., assignor to Eagle Pencil Company, New York, N. Y. Drafting instrument. 1,730,496; Oct. 8.  
 Fischer, Joseph C., Wauwatosa, assignor of one-half to M. D. Johnson, Milwaukee, Wis. Furnace construction. 1,696,907; Jan. 1.  
 Fischer, Lawrence W., Grosse Pointe, and G. F. Strong, Detroit, Mich. Ironing machine. 1,707,056; Mar. 26.  
 Fischer, Louis, Philadelphia, assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C. Labeling and stamping machine. 1,698,585; Jan. 8.  
 Fischer, Martin, Zurich, Switzerland. Controlling the valve motion in piston engines. 1,717,965; June 18.  
 Fischer, Martin, Zurich, Switzerland. Motor car. 1,724,649; Aug. 13.  
 Fischer, Martin, Zurich, Switzerland. Pneumatic actuating device. 1,728,267; Sept. 17.  
 Fischer, Moritz B., Chicago, Ill. Ball holder for golf bags. 1,718,952; July 2.  
 Fischer, Oscar A. (See Koenig, H. T., Fischer, Haffey, and Clampitt.)  
 Fischer, Otto. (See Goldberg, E., and Fischer.)  
 Fischer, Philip A., New York, N. Y. Garter. 1,697,269; Jan. 1.  
 Fischer, Philip A., New York, N. Y. Garter. 1,697,270; Jan. 1.  
 Fischer, Philip A., New York, N. Y. Garter. 1,697,271; Jan. 1.  
 Fischer, Philip A., New York, N. Y., H. Schoen, Newark, N. J., A. M. Goldstein, Far Rockaway, and J. M. Goldstein, New York, N. Y. Sanitary package for drinking cups and dispensing device. 1,723,232; Aug. 6.  
 Fischer, William, New York, N. Y. Resilient sole pad for shoes. 1,701,260; Feb. 5.  
 Fischl, A. B., a firm. (See Maul, Alfred H. C., assignor.)  
 Fischmann, Arnošt, assignor to A. Donebauer, Prague, Czechoslovakia. Support for jewelry. 1,705,444; Mar. 12.  
 Fish, Pat, Jamestown, Calif. Cable roller. 1,700,929; Feb. 5.  
 Fishburn, Otto E., assignor to Warner Gear Company, Muncie, Ind. Shift-lever mounting for automobiles. 1,735,677; Nov. 12.  
 Fisher, Albert H., East Cleveland, Ohio. Window construction. 1,730,001; Oct. 1.  
 Fisher, Albert H., et al. (See Wesseler, William J., assignor.)  
 Fisher, Alfred J., assignor to General Motors Corporation, Detroit, Mich. Door stile for automobile bodies. 1,711,310; Apr. 30.  
 Fisher, Anna M., Los Angeles, Calif. Cosmetic applicator and making same. 1,724,756; Aug. 13.  
 Fisher Brass Company, The. (See Fisher, George W., assignor.)  
 Fisher, Carl G., assignor of one-third to T. W. Milton, Port Washington, and one-third to J. P. Niconow, New York, N. Y. Electric-switch attachment. 1,699,392; Jan. 15.  
 Fisher, Charles, Newark, N. J., assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings bank. 1,734,617; Nov. 5.  
 Fisher, Charles R., Rogers City, Mich. Automatic stop for belt conveyers. 1,728,283; Sept. 17.  
 Fisher, Charles W., Springfield, Ohio, assignor to Alemite Corporation, Chicago, Ill. Liquid-fuel strainer. 1,730,360; Oct. 8.  
 Fisher, David, Paden City, W. Va. Tray. Des. 78,880; July 2.  
 Fisher, David, assignor to Paden City Glass Manufacturing Company, Paden City, W. Va. Glass tumbler. Des. 77,759; Feb. 19.  
 Fisher, David, assignor to Paden City Glass Manufacturing Company, Paden City, W. Va. Glass tumbler. Des. 79,881; Nov. 12.  
 Fisher, Dean W., Springfield, Mass., assignor to General Ice Cream Corporation, Schenectady, N. Y. Making concentrated ice-cream mix. 1,699,526; Jan. 22.  
 Fisher, Dudley T., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-mining apparatus. 1,726,891; Sept. 3.  
 Fisher, Dudley T., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. 1,736,853; Nov. 26.  
 Fisher, Elizabeth. (See Roth, Simon, assignor.)  
 Fisher, Ernest A., and C. R. Jones, St. Albans, England. Manufacture of flour. 1,727,429; Sept. 10.  
 Fisher, Ernest F., assignor to Fanaire Heater Company, St. Louis, Mo. Heating apparatus. 1,705,812; Mar. 19.  
 Fisher, Ernest F., assignor to Fanaire Heater Company, St. Louis, Mo. Heating apparatus. 1,706,846; Mar. 26.  
 Fisher, Ernest F., St. Louis, Mo., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Vapor generator. 1,737,837; Dec. 3.  
 Fisher, Ernest S., assignor to Utah Metal Flux Company, Salt Lake City, Utah. Improving ferrous metals and products thereof. 1,712,879; May 14.  
 Fisher, Frank B., jr., Kansas City, Kans. Parachute carrier and release. 1,718,551; June 25.  
 Fisher, Frank C., Toledo, Ohio. Air-dispensing device. 1,719,836; July 9.  
 Fisher, Frank L., Baltimore, Md., and H. M. Friendly, Portland, Ore.; said Fisher assignor to said Friendly. Impulse-sending machine. 1,714,302; May 21.  
 Fisher, Franklin C. (See Novak, J. A., and Fisher.)  
 Fisher, Garfield W. (See Jones, L. S., Fisher, and Henrikson.)  
 Fisher, Garfield W. (See Jones, L. S., Fisher, Henrikson, and Butler.)  
 Fisher, George A., Indianapolis, Ind. Package of evaporated milk and producing the same. 1,719,760; July 2.  
 Fisher, George E., Galt, Ontario, Canada. Water-closet seat. 1,697,973; Jan. 8.  
 Fisher, George F., Oklahoma City, Okla. Automatic animal trap. 1,740,583; Dec. 24.  
 Fisher, George W., Marysville, assignor to The Fisher Brass Company, Bellefontaine, Ohio. Valve. 1,730,497; Oct. 8.  
 Fisher Governor Company, The. (See Browne, Lyle W., assignor.)  
 Fisher, Grover L., Sandusky, Ohio, assignor of one-half to C. L. Osberg, Detroit, Mich. Incased electric motor. 1,722,284; July 30.  
 Fisher, Harold J., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical wave transmission system. 1,734,121; Nov. 5.  
 Fisher, Harry C., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Metal-plating nonmetallic substance. 1,704,125; Mar. 5.  
 Fisher, Harry C., Norwood, assignor to The Richardson Company, Lockland, Ohio. Deinking paper. 1,707,604; Apr. 2.  
 Fisher, Harry L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Azo dyes from rubber derivatives. 1,724,270; Aug. 13.  
 Fisher, Harry L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Thermoplastic composition and making same. 1,731,488; Oct. 15.  
 Fisher, Harry L., Leona, N. J., and W. C. Geer, New Rochelle, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber composition and making and shaping the same. 1,731,483; Oct. 15.  
 Fisher, James B., and J. E. De Long, assignors to Waukesha Motor Company, Waukesha, Wis. Driving unit. 1,676,639; Jan. 1.  
 Fisher, J. M., Company. (See Barrowman, Arthur H., assignor.)  
 Fisher, J. M., Company. (See Chilson, Lewis S., assignor.)  
 Fisher, James M., New Orleans, La. Window screen for automobiles. 1,712,341; May 7.  
 Fisher, John A., et al. (See Cervol, Albert, assignor.)  
 Fisher, John E., and W. R. Gillam, Phoenixville, Pa., assignors to The Philadelphia Rubber Works Company, Wilmington, Del. Method and apparatus for refining reclaimed rubber. 1,700,287; Jan. 29.



- Fisher, Joseph B., Strathmore, Calif. Toy gun. 1,724,271; Aug. 13.
- Fisher, Joseph B., Strathmore, Calif. Vehicle trailer. 1,739,716; Dec. 17.
- Fisher, Joseph E., Hamilton, Ohio. Switch. 1,732,157; Oct. 15.
- Fisher, Laura E. (See Peterson, Edith M., assignor.)
- Fisher, Lee F., St. Louis, Mo. Toaster. 1,739,831; Dec. 17.
- Fisher, Lew M., administratrix. (See Fisher, Walter G.)
- Fisher, Orel M., Belle Vernon, Pa. Gapeworm preventive. 1,702,823; Feb. 19.
- Fisher, Raymond, Philadelphia, Pa., assignor to Hemphill Company, Pawtucket, R. I. Automatic circular-knitting machine. 1,736,742; Nov. 19.
- Fisher, R. Fenton. (See White, Ernest C., assignor.)
- Fisher, Roy, Los Angeles, Calif. Aerial mail catcher. 1,735,385; Nov. 12.
- Fisher Scientific Company. (See Foster, William T., assignor.)
- Fisher, Thomas C., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Compensating mechanism. 1,717,021; June 11.
- Fisher, Thomas H., Winnetka, Ill. Vibrator. 1,717,501; June 18.
- Fisher, W. M., Company, The. (See McAlpine, Walter P., assignor.)
- Fisher, W. Reuen, Detroit, Mich. Lathe-center holder. 1,700,837; Feb. 5.
- Fisher, W. Reuen, Detroit, Mich. Jig bushing. 1,706,847; Mar. 26.
- Fisher, Wager, Bryn Mawr, Pa. Apparatus for preparing molding sand. 1,713,869; May 21.
- Fisher, Wager, Bryn Mawr, Pa., assignor to A. Bishop Chance, Centralia, Mo. Pulley block. 1,740,168; Dec. 17.
- Fisher, Walter G., deceased; L. M. Fisher, administratrix, Orangeville, Ontario, Canada. Tractor wheel. 1,699,057; Jan. 15.
- Fisher, William H., Altoona, assignor of one-third to R. D. Elder, Juniata, Pa. Socket wrench. 1,712,427; May 7.
- Fisher's Foils Limited. (See Spencer, Harold E., assignor.)
- Fisk, Ernest T., Sydney, Australia. Electron-discharge device. 1,720,724; July 16.
- Fisk Rubber Company, The. (See Benson, F. J., and Lewis, assignors.)
- Fisk Rubber Company, The. (See Blake, Michael J., assignor.)
- Fisk Rubber Company, The. (See Castricum, Martin, assignor.)
- Fisk Rubber Company, The. (See Castricum M., and Butterfield, assignors.)
- Fisk Rubber Company, The. (See Dearth, Elmer E., assignor.)
- Fisk Rubber Company, The. (See Desautels, Charles H., assignor.)
- Fisk Rubber Company, The. (See Dexter, Albert J., assignor.)
- Fisk Rubber Company, The. (See Hansen, Raymond, assignor.)
- Fisk Rubber Company, The. (See Harvey, Robert P., assignor.)
- Fisk Rubber Company, The. (See Hennessy, Daniel E., assignor.)
- Fisk Rubber Company, The. (See Holm, Sigurd, assignor.)
- Fisk Rubber Company, The. (See Irrgang, William F., assignor.)
- Fisk Rubber Company, The. (See Lehman, Paul W., assignor.)
- Fisk Rubber Company, The. (See Little, Thomas P., assignor.)
- Fisk Rubber Company, The. (See Little, T. P. and Irrgang, assignors.)
- Fisk Rubber Company, The. (See Mann, Guy W., assignor.)
- Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
- Fisk Rubber Company, The. (See Mather, George L., assignor.)
- Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
- Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
- Fisk Rubber Company, The. (See Richey, Albert E., assignor.)
- Fisk Rubber Company, The. (See Whittier, Elmer S., assignor.)
- Fisk Rubber Company, The. (See Wikle, George F., assignor.)
- Fiske, Bradley A., New York, N. Y. Reading machine. 1,707,351; Apr. 2.
- Fiske & Company. (See Colbert, Clarence L., assignor.)
- Fiske, Jonathan P. B., Newton, Mass. Method of and apparatus for fluid-fuel burning. 1,725,510; Aug. 20.
- Fiskeu, Graeme K. (See Reade, J. C., and Fiskeu.)
- Fister, Bertram V., and H. L. Sutcliffe, New York, N. Y. Die unit for cutting shoe blanks. 1,722,459; July 30.
- Fitch, Charles M., Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Cookstove. 1,279,100; Sept. 24.
- Fitch, Charles M., Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Wick oil burner. 1,718,814; June 26.
- Fitch, Claude E., Wilmette, Ill. Machine for making vacuum tubes. 1,730,926; Oct. 8.
- Fitch, Claude E., Wilmette, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Radio vacuum-tube construction. 1,709,393; Apr. 16.
- Fitch, Clyde J., Brooklyn, N. Y. Speaker. 1,728,405; Sept. 17.
- Fitch, Ellery R. (See Dapron, J. M., and Fitch.)
- Fitch, Ellery R., Westwood, N. J., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control equipment. 1,727,371; Sept. 10.
- Fitch, Emert L., Audubon, Iowa. Emascutome. 1,729,264; Sept. 24.
- Fitch, Ezra C., Newton, assignor to Waltham Watch Company, Waltham, Mass. Dial with yielding foot for timepieces. 1,708,293; Apr. 9.
- Fitch, Fred W., Des Moines, Iowa. Dispenser. 1,717,672; June 18.
- Fitch, Jason A. (See Brainard, G. C., and Fitch.)
- Fitch, Raymond, assignor to The Champion No-Leak Paper Dish Company, Toledo, Ohio. Article counter. 1,730,498; Oct. 8.
- Fitch, William H., Allentown, Pa. Heating furnace. 1,735,605; Nov. 12.
- Fitch, William H., Allentown, Pa. Heating furnace. 1,735,606; Nov. 12.
- Fitch, William H., Allentown, Pa. Heating furnace. 1,735,607; Nov. 12.
- Fitch, William H., Allentown, Pa. Heating furnace. 1,735,608; Nov. 12.
- Fitts, Irving C., Mount Vernon, Wash. Filter. 1,731,409; Oct. 15.
- Fitz, Andrew W., Council Bluffs, Iowa. Automobile lifter. 1,714,554; May 28.
- Fitz-Empire Double Pivot Last Company. (See Fitz, Guy B., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Ryan, G. F., and Burke, assignors.)
- Fitz-Empire Double Pivot Last Company. (See Schelter, George G., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Slack, Walter W., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Sturgis, Carl L., assignor.)
- Fitz-Gibbon, John B., Bridgeburg, Ontario, Canada. Pig-releasing mechanism. 1,728,483; Sept. 17.
- Fitz, Guy B., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. 1,697,059; Jan. 1.
- Fitz, Guy B., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Hinge last. 1,715,594; June 4.
- Fitz Gerald, Arthur G., Brookline, Mass. Inner tube for pneumatic tires. 1,737,368; Nov. 26.
- Fitzgerald, Charles S., Des Moines, Iowa. Printer's angle-furniture unit. 1,714,976; May 28.
- Fitzgerald, Daniel F., Boston, Mass. Automobile shade. 1,715,998; June 4.
- Fitz Gerald, Francis A. J., Niagara Falls, N. Y., assignor to Harper Electric Furnace Corporation. Electric furnace. 1,714,081; May 21.
- Fitzgerald, Horace H., Berlin, assignor to The Fuller Brush Company, Hartford, Conn. Floor brush. 1,725,133; Aug. 20.
- Fitzgerald, James E., Youngstown, assignor to The Niles Steel Products Company, Niles, Ohio. Double shipping container. Re1,723; Mar. 12.
- Fitzgerald, James E., Youngstown, assignor to The Niles Steel Products Company, Niles, Ohio. Shipping container and pump-securing means. 1,717,150; June 11.
- Fitz Gerald, James T., South Pittsburg, Tenn. Stove. 1,713,428; May 14.
- Fitz Gerald, Ray H., Birmingham, Ala. Carton. 1,734,424; Nov. 5.
- Fitzgerald, John M., River Forest, Ill. Reinforced-concrete cribbing. 1,703,303; Feb. 26.
- Fitzgerald, John W., Shorewood, assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Window regulator. 1,708,877; Apr. 9.
- Fitzgerald Manufacturing Company, The. (See Fitzgerald, Patrick J., assignor.)
- Fitzgerald Manufacturing Company, The. (See Reichold, Ludwig, assignor.)
- Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Brush attachment for vacuum cleaners. 1,713,274; May 14.
- Fitzgerald, Stephen F., Pittsburgh, Pa. Toothbrush. 1,722,131; July 23.
- Fitzgerald, Thomas, Fredonia, N. Y. Pavement-joint-filling machine. 1,698,015; Jan. 8.
- Fitzgerald, Thomas W., Stanley, N. Y. Safety kettle. 1,700,793; Feb. 5.
- Fitzgerald, William G., St. Malo, France. Draining or drying rack for dishes and like culinary effects. 1,712,342; May 7.
- Fitzgerald, William H. J., Braintree, assignor to Pneumatic Drop Hammer Company, Boston, Mass. Drop hammer. 1,720,592; July 9.
- Fitz Gerald, William T., Coconut Grove, Fla., and M. E. Miller, Washington, D. C., assignors to International Cigar Machinery Company. Cigar-making machine. 1,718,127; June 18.
- Fitz Gerald, William T., Washington, D. C., assignor to International Cigar Machinery Company. Cigar-making machine and product thereof. 1,721,382; July 16.



- Fitzgibbon, Gerald S., Niagara Falls, N. Y. Guard for grinding wheels. 1,707,116; Mar. 26.
- Fitzgibbon, John E., assignor to Phoenix Hosiery Company, Milwaukee, Wis. Stocking tag. 1,718,919; June 25.
- Fitzgibbon, W. J., et al. (See Sheldon, Carson J., assignor.)
- Fitz Gibbon Co., The. (See Fitz Gibbon, John, assignor.)
- Fitz Gibbon, John., assignor to The Fitz Gibbon Co. Inc., New York, N. Y. Glove. Des. 78,971; July 16.
- Fitzhugh, Philip A., Sumner, Miss., assignor to Fitzhugh's Seed Handler and Storage Company, Inc. Cottonseed handler. 1,735,920; Nov. 19.
- Fitzhugh's Seed Handler and Storage Company. (See Fitzhugh, Philip A., assignor.)
- Fitzpatrick, George J., Chicago, Ill. Beater. 1,707,789; Apr. 2.
- Fitzpatrick, Howard, Montclair, N. J. Steel-wool holder. 1,719,467; July 2.
- Fitzpatrick, J. J., et al. (See Brammer, Anthony C., assignor.)
- Fitz Patrick, James J., Marblehead, and R. T. Cheeseman, Lynn, Mass., assignors to General Electric Company. Rectifying arc device. 1,699,103; Jan. 15.
- Fitzpatrick, Jeremiah J., Tulsa, Okla. Pump. 1,729,870; Oct. 1.
- Fitz Simmons, Edward S. (See Landgraf, F. K., and Fitz Simmons.)
- Fitzsimmons, John T. (See Hunt, J. H., and Fitzsimmons.)
- Fitzsimmons, John T., and W. D. Shrope, Anderson, Ind., assignors to Delco-Remy Corporation, Dayton, Ohio. Synchronizing device for ignition timers. 1,697,908; Jan. 8.
- Fitzsimmons, John T., and W. D. Shrope, Anderson, Ind., assignors to Delco-Remy Corporation, Dayton, Ohio. Synchronizing device for ignition timers. 1,697,909; Jan. 8.
- Fitzsimmons, Thomas. (See Vial, F. K., and Fitzsimmons.)
- Fiumedoro, Aloysius J., Dedham, Mass. Necktie. 1,728,599; Sept. 17.
- Fix, Lewis E., Boswell, Ind., assignor to The Milwat Manufacturing Co., Paxton, Ill. Automobile valve tool. 1,738,178; Dec. 3.
- Fixel, Arthur E., Detroit, Mich. Safety device for aeroplanes. 1,730,927; Oct. 8.
- Fixen, Martin O., Minneapolis, Minn. Electric spinning top. 1,732,085; Oct. 15.
- Fixler, Maurice, Chicago, Ill. Hemstitched appliqué work and making the same. 1,741,620; Dec. 31.
- Flach, Ernst, assignor to Largman-Gray Company, Philadelphia, Pa. Knitting full-fashioned hosiery. 1,721,211; July 16.
- Flack, A. C. (See Lutes, Arthur M., assignor.)
- Flack, Theodore J., Brooksville, Fla. Apparatus and process for casting. 1,701,559; Feb. 12.
- Flagg, Ernest, New York, N. Y. Hinge. 1,722,204; July 23.
- Flagg, Ernest, New York, N. Y. Gauge for applying hinges. 1,736,709; Nov. 19.
- Flagg, Lucien M., Ashville, N. C. Lock and window adjuster. 1,724,011; Aug. 13.
- Flage, Howard A., Norfolk, Va. Piston oil shield. 1,734,460; Nov. 5.
- Flagmeier, John V. (See Lippert, A. C., and Flagmeier.)
- Flaherty, Frederick J., assignor to J. A. Flaherty, William, Conn. Pipe-organ action. 1,707,262; Apr. 2.
- Flaherty, Frederick J., Woodstock Valley, Conn., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Combination stop mechanism for organs and the like. 1,725,576; Aug. 20.
- Flaherty, Frederick J., Woodstock Valley, Conn., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Combination stop mechanism for organs and the like. 1,725,706; Aug. 20.
- Flaherty, Frederick J., Woodstock Valley, Conn., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Combination stop mechanism for organs and the like. 1,725,707; Aug. 20.
- Flaherty, Jennie A. (See Flaherty, Frederick J., assignor.)
- Flaherty, Leo M., Washington, D. C. Receptacle. 1,696,947; Jan. 1.
- Flaherty, Rupert E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Core-inserting apparatus. 1,730,651; Oct. 8.
- Flaker, Carl, Florissant, Mo. Internal-combustion engine. 1,705,754; Mar. 19.
- Flakice Corporation. (See Field, Crosby, assignor.)
- Flam, John. (See Elliott, Harold E., assignor.)
- Flam, John, et al. (See Miller, James A., assignor.)
- Flamm, Alexander, Bridgeport, Conn. Vending machine for Frankfurter sandwiches. 1,716,266; June 4.
- Flamm, William, Milwaukee, Wis. Onion topper. 1,697,525; Jan. 1.
- Flammang, John, University City, and P. L. Bowser, St. Louis, Mo., assignors, by mesne assignments, to The Sterling Corporation, Wilmington, Del. Piston. 1,736,001; Nov. 19.
- Flammer, Ernst, and C. Kelber, Hellbronn, Germany. Manufacture of soap. 1,715,999; June 4.
- Flammer, Ernst, and C. Kelber, Hellbronn, Germany. Manufacture of soap. 1,716,000; June 4.
- Flammer, Ernst, and C. Kelber, Hellbronn, Germany. Manufacture of soap. 1,717,553; June 18.
- Flanagan, Victor E., Fort Wayne, Ind., assignor to R. A. Leahy, Leadville, Mo. Vibrating mechanism. 1,712,817; May 14.
- Flanagan, Victor E., West Allis, Wis., assignor to R. A. Leahy, Leadwood, Mo. Apparatus for screening granular materials. 1,725,511; Aug. 20.
- Flanagan, William B., Brooklyn, N. Y. Vegetable receptacle. 1,701,806; Feb. 12.
- Flanders, Oren M. (See Braswell, R. T., and Flanders.)
- Flanders, Paul B., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Repeater circuits. 1,731,656; Oct. 15.
- Flanders, Ralph E., and R. O. Beardsley, assignors to Jones & Lamson Machine Company, Springfield, Vt. Tap holder for comparators. 1,737,579; Dec. 3.
- Flanders, Ralph E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Grinding machine. 1,739,753; Dec. 17.
- Flanders, Thomas A., Chicago, Ill. Transmission. 1,702,044; Feb. 12.
- Flanders, Warren B., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing housing. 1,728,268; Sept. 17.
- Flanigan, E. B., Incorporated. (See Flanigan, Edwin B., assignor.)
- Flanigan, Edwin B., assignor to E. B. Flanigan, Incorporated, Wilkes-Barre, Pa. Vehicle brake. 1,730,928; Oct. 8.
- Flanigan, John J., Oak Park, Ill. Duplicating machine. 1,703,140; Feb. 26.
- Flannery Bolt Company. (See Greenslade, G. R., Landgraf, and Flannery, assignors.)
- Flannery Bolt Company. (See Landgraf, F. K., and Fitz Simmons.)
- Flannery, James H., Kansas City, Mo. Bolster for tank vehicles. 1,704,662; Mar. 5.
- Flannery, John R. (See Greenslade, G. R., Landgraf, and Flannery.)
- Flansburg, Peter, Manistee, Mich., assignor to S. H. Goldberg, Chicago, Ill. Crate. 1,730,181; Oct. 1.
- Flash Fire Extinguisher Company, The. (See Hartney, J. F., and Larkin, assignors.)
- Flath, Otto S., Chicago, Ill. Signal and switch carrier support. 1,730,606; Oct. 8.
- Flathers, Ed. (See Flathers, Ronald E., assignor.)
- Flathers, Ronald E., assignor to E. Flathers, Iroquois, S. Dak. Steering-gear attachment. 1,739,832; Dec. 17.
- Flatt, Clarence C., Des Moines, Iowa. Store front. Des. 78,279; Apr. 16.
- Flauder, Alfred J. (See Weidlich, L., Tracy, and Flauder.)
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined salt and pepper shaker. Des. 78,388; Apr. 30.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Salt or pepper shaker. Des. 78,739; June 18.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Salt or pepper shaker. Des. 78,740; June 18.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Salt or pepper shaker. Des. 78,741; June 18.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Salt or pepper shaker. Des. 78,742; June 18.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Salt or pepper shaker. Des. 78,743; June 18.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined salt and pepper shaker. Des. 80,026; Dec. 3.
- Flavell, Albert T., and E. Holland, assignors to Cedarbrook Knitting Company, Philadelphia, Pa. Undergarment. 1,704,887; Mar. 12.
- Flavin, Charles L., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,728,727; Sept. 17.
- Flaws, John, jr., West Orange, N. J., assignor to General Electric Company. Method of and apparatus for mounting filaments. 1,728,048; Sept. 10.
- Fleak, Glen D., Beaumont, Tex. Advertising device. 1,707,081; Mar. 26.
- Fleckenstein, Albert C. (See Strait, Lancelle J., assignor.)
- Fleek, Edward O., Glendale, Calif. Color mixer. Re17,203; Feb. 5.
- Fleet, Arthur H. (See Meuer, G. J., and Fleet.)
- Fleet, Arthur H., Milwaukee, Wis., and H. L. Hibbard, Elizabeth, N. J., assignors, by mesne assignments, to Cutler-Hammer Inc. Towing machine and the like. 1,728,339; Sept. 17.
- Flegel, Harrison D., Racine, Wis. Drink mixer. 1,711,407; Apr. 30.
- Flegel, Harrison D., Racine, Wis. Drink mixer. 1,713,119; May 14.
- Flegenheimer, Nathan, Philadelphia, Pa. Display lid for containers. 1,712,140; May 7.
- Flehr, Paul D., Oakland, Calif. Electrical-current wave-changing device. 1,731,616; Oct. 15.
- Fleischer, Nathan I., Cincinnati, Ohio. Garment protector. 1,723,647; Aug. 6.
- Fleischer, Paul W., and C. Lambelet, Weehawken, assignors to New Jersey Machine Corporation, Hoboken, N. J. Apparatus for handling sheets or labels. 1,724,077; Aug. 13.



- Fleischer, Svend S. C., Charlottenlund, near Copenhagen, Denmark. Warp-separating machine. 1,714,951; May 28.
- Fleischer, William, Camden, N. J., and P. Di Biaso, Philadelphia, Pa. Cloth cutter. 1,729,510; Sept. 24.
- Fleischli, John A., Clayton, and J. M. Kountzman, assignors to Cupples Company, St. Louis, Mo. Apparatus for making rubber tubes. 1,713,958; May 21.
- Fleischman, Jacob, Chicago, Ill. Combination tool. 1,725,263; Aug. 20.
- Fleischmann Company, The. (See Bührig, Wilhelm H. F., assignor.)
- Fleischmann Company, The. (See Corby, Robert L., assignor.)
- Fleischmann Company, The. (See Dawson, Bayliss M., assignor.)
- Fleischmann Company, The. (See Hasling, John, Jr., assignor.)
- Fleischmann Company, The. (See Klein, Erwin, assignor.)
- Fleischmann Company, The. (See Meyer, Ejnar A., assignor.)
- Fleischmann Company, The. (See Nilsson, Martin, assignor.)
- Fleischmann Company, The. (See Patitz, Gerhardt J., assignor.)
- Fleischmann Company, The. (See Ransehoff, Fred, assignor.)
- Fleischmann Company, The. (See Weber, Frederick C., and Randall, assignors.)
- Fleisher, Walter L., New York, N. Y., assignor, by mesne assignments, to Auditorium Ventilating Corporation, Jersey City, N. J. Method and apparatus for cooling air. 1,718,815; June 25.
- Fleissner, Hans. (See Apold, A., and Fleissner.)
- Fleissner, Hans, Leoben, Austria. Benzene safety lamp for indicating fire damp. 1,716,374; June 11.
- Fleiter, Andrew J., assignor to The Akron Standard Mold Company, Akron, Ohio. Locking mechanism for vulcanizers. 1,700,367; Jan. 29.
- Fleiter, Andrew J., Akron, and H. C. Bostwick, Kenmore, assignors, by mesne assignments, to The General Tire & Rubber Company, Akron, Ohio. Watchcase vulcanizer. 1,733,151; Oct. 29.
- Fleming, August L. N., Lyndhurst, N. J., assignor to Superior Linking Machine Corporation. Linking machine. 1,705,246; Mar. 12.
- Fleming, Bertha F., Vineland, N. J. Flexible grate. 1,723,775; Aug. 6.
- Fleming, Charles F. (See Prowse, F. J., Robinson, Hall, and Fleming.)
- Fleming, Charles T., Santa Fe Springs, Calif. Fishing-tool attachment. 1,737,305; Nov. 26.
- Fleming, Dio C. (See Valentine, Rollo H., assignor.)
- Fleming, Ferdinand D. (See Schmidt, Hubert R., assignor.)
- Fleming, George W., assignor to Fleming Machine Company, Worcester, Mass. Cutter. 1,737,580; Dec. 3.
- Fleming, Hart H., Cleveland, Ohio. Storage tank. 1,709,257; Apr. 16.
- Fleming, Jared B., Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Overhead-valve testing apparatus. 1,701,876; Feb. 12.
- Fleming, John A. (See Bauer, L. A., Peters, and Fleming.)
- Fleming, John S., Toronto, Ontario, Canada, assignor, by mesne assignments, to Niagara Fold, Inc., Niagara Falls, N. Y. Planographic press. 1,739,555; Dec. 17.
- Fleming, Joseph P., assignor to Wakefield All-Steel Wrench Company, Inc., Worcester, Mass. Retaining device. 1,706,111; Mar. 19.
- Fleming Machine Company. (See Fleming, George W., assignor.)
- Fleming, Robert G., Chico, Calif., assignor, by mesne assignments, to Smokador Manufacturing Company, Inc., New York, N. Y. Ash tray. 1,738,566; Dec. 10.
- Fleming, Wells S., Portland, Oreg. Floor drain. 1,731,617; Oct. 15.
- Fleming, Wells S., Portland, Oreg. Surface drain. 1,733,254; Oct. 29.
- Fleming, Wells S., Portland, Oreg. Protective plug for drainage fixtures. 1,739,067; Dec. 10.
- Fleming, Wilfred K., Cambridge, Mass., assignor, by mesne assignments, to Tobe Deutschmann Corporation. Connecting plug. 1,741,185; Dec. 31.
- Flensted, Knud, et al. (See Eberly, Sylvester, assignor.)
- Flentje, Ernst, Cambridge, Mass. Shock absorber. 1,739,132; Dec. 10.
- Fletcher, Albert, and E. B. Evernham, Asbury Park, N. J. Floor planer. 1,713,894; May 21.
- Fletcher, Albert T. (See Dormant, Frank C., assignor.)
- Fletcher, Douglas P., Dallas, Tex. Moistener. 1,705,609; Mar. 19.
- Fletcher, George H., Sheffield, England, assignor to Westinghouse Electric & Manufacturing Company. Electric traction. 1,704,243; Mar. 5.
- Fletcher, George H., Sheffield, England, assignor to Westinghouse Electric & Manufacturing Company. Flexible gear wheel. 1,741,984; Dec. 31.
- Fletcher, George H., Sheffield, and H. Rusby, Stocksbridge, near Sheffield, England, assignors to Westinghouse Electric and Manufacturing Company. Resilient shaft coupling. 1,727,055; Sept. 3.
- Fletcher, George H., and A. Tustin, Sheffield, England, assignors to Westinghouse Electric and Manufacturing Company. Electrically-driven vehicle. 1,729,437; Sept. 24.
- Fletcher, Harvey, assignor to Western Electric Company, Incorporated, New York, N. Y. Tactile reception of sound. 1,738,289; Dec. 3.
- Fletcher, John B., Newport, Ky. Washing-machine dolly. 1,726,980; Sept. 3.
- Fletcher, Paul B., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Winding for dynamo-electric machines. 1,705,726; Mar. 19.
- Fletcher, Robert S. (See Kirkaldy, Alexander, assignor.)
- Fletcher, Thomas J. (See Tilley, John W., assignor.)
- Fletcher, William A., Los Angeles, Calif. Communicating circuits. 1,715,283; May 28.
- Fletcher, William D., West New Brighton, N. Y. Apparatus for generating electric energy. 1,713,649; May 21.
- Fletcher, William R. (See Chase, H. S., and Fletcher.)
- Fletcher Works. (See Schander, Paul, assignor.)
- Fletcher Works. (See Schaum, Carl, assignor.)
- Fletcher Works. (See Schaum, Fletcher and C., assignors.)
- Fletcher Works, Incorporated. (See Bartholomew, R. J., and Laufer, assignors.)
- Flexible Engineering Corporation. (See Dalton, G. A., and Dunham, assignors.)
- Flexible Steel Lacing Company. (See Purple, George E., assignor.)
- Flexible Truck Corporation. (See Taylor, Howard D., assignor.)
- Flexo-Drive Corporation. (See Johnson, William E., assignor.)
- Flexo-Drive Corporation. (See Jones, David W., assignor.)
- Flex-O-Industrie-Gesellschaft m. b. H. (See Sauveur, Harry, assignor.)
- Flickinger, Bruce N., Denver, Colo. Lawn-sprinkling device. 1,724,702; Aug. 13.
- Flidner, John. (See Rick, A. J., and Flidner.)
- Flidner, John, Flushing, assignor to American Manufacturing Company, New York, N. Y. Method and apparatus for piling fibrous material. 1,710,817; Apr. 30.
- Flier, Leo, Brooklyn, N. Y. Jewelry-display base. Des. 78,568; May 21.
- Flier, Leo, Brooklyn, N. Y. Jewelry-display box. Des. 79,188; Aug. 13.
- Flink, Anton, Marinette, Wis. Meter box. 1,702,296; Feb. 19.
- Flink, Charles M., Ironwood, Mich. Curtain stretcher. 1,706,283; Mar. 19.
- Flint, Clarence H., Flushing, assignor to General Chewing Gum Corporation, Brooklyn, N. Y. Protector for confections, etc. 1,712,451; May 7.
- Flint, Floyd F., assignor of one-half to M. W. Benjamin, Detroit, Mich. Carburetor. 1,710,696; Apr. 30.
- Flint, Opha H., Huntington, W. Va., assignor to The Owens Bottle Company, Toledo, Ohio. Machine for securing neck wires to bottles. 1,710,769; Apr. 30.
- Flintermann, Gerhard, West Orange, N. J. Thrust bearing. 1,719,399; July 2.
- Flintermann, Gerhard, Orange, N. J. Joint. 1,732,646; Oct. 22.
- Flintermann, Gerhard, Orange, N. J. Seat. 1,732,647; Oct. 22.
- Flintermann, Gerhard, West Orange, N. J. Flexible joint. 1,732,648; Oct. 22.
- Flintermann, Gerhard, West Orange, N. J. Heat-exchange device. 1,736,906; Nov. 26.
- Flintjer, Walter J., Cheyenne, Wyo. Tent-supporting frame. 1,730,565; Oct. 8.
- Flintkote Company, The. (See Clapp, Albert L., assignor.)
- Flintkote Company, The. (See French, Henry R., assignor.)
- Flintkote Company, The. (See Harris, William A., assignor.)
- Flintkote Company, The. (See Heppes, Otto, assignor.)
- Flintkote Company, The. (See Hofmann, William T., assignor.)
- Flintkote Company, The. (See Johnston, Robert T., assignor.)
- Flintkote Company. (See Kirschbraun, L., and MacDonald, assignors.)
- Flintkote Company, The. (See Kirschbraun, L., and Clapp, assignors.)
- Flintkote Company, The. (See Kirschbraun, L., and Heppes, assignors.)
- Flintkote Company. (See Kirschbraun, L., and MacDonald, assignors.)
- Flintkote Company, The. (See Levin, Harold L., assignor.)
- Flintkote Company, The. (See Lietz, Felix E., assignor.)
- Flintkote Company, The. (See Lukens, A. R., and Maynard, assignors.)
- Flintkote Company, The. (See Overbury, Frederick C., assignor.)
- Flintkote Company, The. (See Richardson, John M., assignor.)
- Flintkote Company, The. (See Schutte, August E., assignor.)
- Flintkote Company, The. (See Stark, Gerald R., assignor.)
- Flippen, John P., Pittsburgh, Pa. Gas scrubber. 1,732,086; Oct. 15.
- Flis, Stanislaw, and M. Kasprzak, Gowanda, N. Y. Envelope. 1,741,456; Dec. 31.
- Flodin, Oscar H., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple. 1,708,205; Apr. 9.
- Flodin, Victor E., Oak Park, assignor to Crane Co., Chicago, Ill. Forging steel gate-valve bodies. 1,738,567; Dec. 10.



- Floeter, Frederick S., Saginaw, Mich. Work-clamping device for pot chucks. 1,704,702; Mar. 12.
- Flogaus, Howard A., assignor to R. L. Skinner, Detroit, Mich. Piston construction. 1,722,132; July 23.
- Flogaus, Howard A., assignor to R. L. Skinner, Detroit, Mich. Cooling system for internal-combustion engines. 1,731,618; Oct. 15.
- Flood, Carl A., assignor to Dennison Manufacturing Company, Framingham, Mass. Manufactured sheet articles. 1,698,433; Jan. 8.
- Flood, Carl A., assignor to Dennison Manufacturing Company, Framingham, Mass. Shipping tag. 1,717,443; June 18.
- Flood, Charles W., jr., assignor to Voigt Company, Philadelphia, Pa. Lighting fixture. Des. 79,705; Oct. 29.
- Flood & Conklin Company. (See Root, Frank B., assignor.)
- Flood, Earl D., Cleveland, Ohio. Combined filler and stain. 1,738,992; Dec. 10.
- Flood, Walter H., Chicago, Ill. Pavement. 1,717,445; June 18.
- Flood, Walter H., Chicago, Ill. Building unit and securing means therefor. 1,733,589; Oct. 29.
- Flook, George, Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Packing device for filled-can-closing machines. 1,702,111; Feb. 12.
- Florola Corporation, The, et al. (See Gillis, Lyle N., assignor.)
- Floraday, Burton S. (See Miller, D., and Floraday.)
- Floraday, Burton S., Toledo, Ohio, assignor to Hydraulic Brake Company, Detroit, Mich. Brake mechanism. 1,705,472; Mar. 19.
- Floraday, Burton S., assignor to Hydraulic Brake Company, Detroit, Mich. Brake mechanism. 1,719,507; July 2.
- Floraday, Burton S., Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Fluid-operated brake system. 1,740,728; Dec. 24.
- Floring, Carl W., New York, N. Y., assignor to General Electric Company. Electric cut-out. 1,706,150; Mar. 19.
- Florman, Irving, New York, N. Y. Cigarette lighter. Des. 79,452; Sept. 17.
- Flory, Emma S., executrix. (See Flory, Frank H.)
- Flory, Frank H., deceased, Chicago, Ill.; E. S. Flory, executrix. Asphalt-mixing plant. 1,727,340; Sept. 10.
- Floto, Eugene C., Akron, Ohio. Display and shipping carton. 1,732,436; Oct. 22.
- Flower, William A., Twin Falls, Idaho. Photographic-printing machine. 1,737,965; Dec. 3.
- Flowers, Alan B., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Apparatus for continuously treating liquids. 1,701,068; Feb. 5.
- Flowers, Clarence O., Reading, Pa., assignor to Roberts and Schaefer Company, Chicago, Ill. Measuring feeder. 1,723,025; Aug. 6.
- Flowers, Edward B., Akron, Ohio. Nut lock. 1,708,305; Apr. 9.
- Flowers, George M., Hickory, N. C. Device for preventing train wrecks. 1,721,108; July 16.
- Floyd, George G., Riverside, Ill. Razor-blade sharpener. 1,710,050; Apr. 23.
- Floyd, Ray H., assignor to Unique Spark Plug Cleaner Co., Chicago, Ill. Slack-take-up device. 1,727,009; Sept. 3.
- Floyd, Ray H., and M. G. Wolf, Chicago, Ill. Water gauge. 1,708,942; Apr. 16.
- Fluker, William H., Thomson, Ga. Rotary grinding mill. 1,718,532; June 25.
- Flum, Robert A. (See Jandus, H. S., and Flum.)
- Flury, Ferdinand, Würzburg, assignor to the firm: Deutsche Gesellschaft für Schadlingsbekämpfung m. b. H., Frankfurt, Germany. Vermin killer. 1,712,917; May 14.
- Flygare, Carl G. (See Belden, A. G., Dunbar, and Flygare.)
- Flynn, Earl B. (See Pardee, Harvey S., assignor.)
- Flynn, Edward P., assignor to Eastman Kodak Company, Rochester, N. Y. Splice for photographic material. 1,730,929; Oct. 8.
- Flynn, Francis K. (See Wilkes, F. C., and Flynn.)
- Flynn, James J. (See Hooke, F. G., and Flynn.)
- Flynn, John B. (See Archer, T. P., and Flynn.)
- Flynn, John H. (See Flynn, Thaddeus J. and J. H.)
- Flynn, John H., jr., Cincinnati, Ohio. Radio apparatus. 1,699,185; Jan. 15.
- Flynn, Mortimer F., West New Brighton, assignor to New Nap System, Inc., New York, N. Y. Napping machine. 1,709,974; Apr. 23.
- Flynn, Thaddeus J. and J. H., Cambridge, Mass. Roof drain. 1,710,304; Apr. 23.
- Foans, Andrew B., New York, N. Y. Wall construction. 1,697,760; Jan. 1.
- Foard, Charles R., Elkton, Md. Foot-measuring device. 1,725,788; Aug. 27.
- Foard, William G., Kalamazoo, Mich. Golf putter. Des. 79,553; Oct. 8.
- Focke, Heinrich, Bremen, Germany. Aeroplane of duck-type construction. 1,738,568; Dec. 10.
- Fodor, Joseph F. (See Diamond, D., and Fodor.)
- Fodrea Planetary Motor Company. (See Fodrea, William L., assignor.)
- Fodrea, William L., assignor to Fodrea Planetary Motor Company, Little Rock, Ark. Support for motor-vehicle engines. 1,719,326; July 2.
- Foernsler, Max E., Richmond Hill, N. Y., assignor to American Machine & Foundry Company. Card-inserting attachment for wrapping machines. 1,721,552; July 23.
- Foerst, John P. (See Hotchkiss, W. O., Aldrich, Stearns, and Foerst.)
- Foerstner, Frederick W. (See Gannon, J. J., and Foerstner.)
- Foerstner, George E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Molding method and apparatus. 1,740,082; Dec. 17.
- Fog, Frank H. (See Kaufman, L., and Fog.)
- Fogarty, Francis, Adelaide, Australia. Harvesting machine. 1,738,238; Dec. 3.
- Fogarty, Orville A., assignor to Vilas Oil Burners Limited, Cowansville, Quebec, Canada. Oil ignition. 1,724,400; Aug. 13.
- Fogas, Livius V., Aurora, Ill. Water plane. 1,711,726; May 7.
- Fogas, Livius V., Detroit, Mich. Valveless motor. 1,740,235; Dec. 17.
- Fogelqvist, Gunnar P. O. (See Granstedt, Johan A., assignor.)
- Fogger, David I., assignor to Peru Plow & Wheel Co., Peru, Ill. Four-wheel trailer. 1,732,006; Oct. 15.
- Fogger, David I., assignor to Peru Plow & Wheel Co., Peru, Ill. Trailer hitch. 1,736,433; Nov. 19.
- Fogland, Emil L., Kearney, Nebr. Windshield wiper. 1,719,006; July 2.
- Fogle, Claud H. (See Hamburger, M., and Fogle.)
- Föhl, Carl. (See Bäckström, M., and Föhl.)
- Fokker, Anthony H. G., Amsterdam, Netherlands. Aircraft. 1,726,981; Sept. 3.
- Foland, Amy K., Mountain View, Calif. Iron rest. 1,717,102; June 11.
- Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,701,105; Feb. 5.
- Folberth, Frederick G. and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,722,568; July 30.
- Folberth, Frederick G. and W. M., Cleveland, Ohio. Thermostat. 1,727,400; Sept. 10.
- Folberth, William M. (See Folberth, Frederick G. and W. M.)
- Folding Products Corporation. (See Nordell, Carl H., assignor.)
- Folds, George R., and L. M. Persons, assignors to Cook Electric Company, Chicago, Ill. Underground pole cable terminals. 1,697,060; Jan. 1.
- Foley, Ernest L., Alpena, Mich. Medicament applicator. 1,737,454; Nov. 26.
- Foley, Frederic E. B. (See Sederholm, J. E., and Foley.)
- Foley, John W., Chicago, Ill. Roller bearing. 1,699,233; Jan. 15.
- Foley, John W., Chicago, Ill. Roller bearing. 1,717,673; June 18.
- Foley Saw Tool Company. (See Collier, Freeman E., assignor.)
- Folger, Harry C. (See Hayes, Charles G., assignor.)
- Folk, Robert H., Columbia, S. C. Fountain pen. 1,712,141; May 7.
- Folker, Harold, assignor to Dayton Scale Company, Dayton, Ohio. Weighing scale. 1,700,258; Jan. 29.
- Folker, Harold H., assignor to Dayton Scale Company, Dayton, Ohio. Scale. 1,717,502; June 18.
- Folker, Howard S., Mill Valley, Calif., assignor to National Safety Appliance Company, Reno, Nev. Train-stop valve. 1,703,578; Feb. 26.
- Folkes, Robert H. (See Knight, E. A., and Folkes.)
- Folkins, Samson E., deceased, Long Island City, N. Y., S. F. Folkins, administratrix. Ironing cabinet. 1,698,677; Jan. 8.
- Folkins, Sarah F., administratrix. (See Folkins, Samson E.)
- Folkman, Morris, Cleveland, Ohio. Safety catch for badge pins. 1,698,843; Jan. 15.
- Follansbee Brothers Company. (See Banfield, James W., assignor.)
- Follansbee Brothers Company. (See Manion, Charles H., assignor.)
- Follas, Dorris C. (See Spillane, Lawrence J., assignor.)
- Folliard, Leo R., Phoenix, Ariz. Safety razor. 1,700,436; Jan. 29.
- Follmer, Clogg & Co. (See Coughlin, John J., assignor.)
- Folmsbee, Clyde H., Cranford, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-car discharge. 1,699,527; Jan. 22.
- Folmsbee, Clyde H., Cranford, N. J., assignor to American Car and Foundry Company, New York, N. Y. Valve operator. 1,727,702; Sept. 10.
- Folmsbee, Clyde H., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Door-locking device for cane cars. 1,727,638; Sept. 10.
- Folse, Raphael J., New Orleans, La. Priming device for internal-combustion engines. 1,722,044; July 23.
- Folsom, Hiram T. (See Townsend, Joseph M., assignor.)
- Folta, Joseph, et al. (See Gwisdalla, Peter, assignor.)
- Foltis, Anestis, Elmhurst, N. Y. Closure for collapsible tubes. 1,702,998; Feb. 19.
- Foltz, Ira W., Chicago, Ill. Furnace. 1,702,597; Feb. 19.
- Fonda, Douglass C., West Orange, and R. L. Hatfield, East Orange, N. J., assignors to Nixon Vending and Change Making Machines, Inc., New York, N. Y. Self-cleaning coin-receiving device. 1,711,049; Apr. 30.
- Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company. Metal composition. 1,721,383; July 16.



- Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company. Electric lamp. 1,721,384; July 16.
- Fones, Byron A., receiver. (See Cadieux, Joseph O., assignor.)
- Fonseca, Edward L., East Orange, assignor to The Wilcolator Company, Newark, N. J. Distant-reading temperature-indicating mechanism. 1,699,104; Jan. 15.
- Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Pilot-light control. 1,703,854; Feb. 26.
- Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Thermostatic control device. 1,715,650; June 4.
- Fontaine, Robert A., Martinsville, Va. Truck body. 1,736,074; Nov. 19.
- Food Display Machine Corporation. (See Morrow, Forrest L., assignor.)
- Foos, Fred, San Fernando, Calif. Nail. 1,733,008; Oct. 22.
- Foote, Beigh M., Muskegon, Mich. Lap robe. 1,706,224; Mar. 19.
- Foote Bros. Gear & Machine Co. (See Wennerstrom, Carl G., assignor.)
- Foote-Burt Company, The. (See Randles, George E., assignor.)
- Foote, Charles E., assignor, by mesne assignments, to The Foote Company, Inc., Nunda, N. Y. Boom and bucket for concrete pavers. 1,739,392; Dec. 10.
- Foote Company, The. (See Foote, Charles E., assignor.)
- Foote-Reynolds Company. (See Kindel, C. J., and Lundberg, assignors.)
- Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Billing machine. 1,719,176; July 2.
- Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Public-service posting machine. 1,729,166; Sept. 24.
- Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Toll-posting machine. 1,729,771; Oct. 1.
- Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Paper-feeding mechanism. 1,730,566; Oct. 8.
- Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Flat-platen moving and controlling means. 1,730,567; Oct. 8.
- Fopay, George L., assignor of one-half to D. Brydon, Bloomfield, Mo. Liner gauge. 1,732,201; Oct. 15.
- Forberg, Albert, assignor to La Pointe Machine Tool Company, Hudson, Mass. Broach. 1,739,220; Dec. 10.
- Forbes, Alexander J., Oakland, Calif. Radio receiving circuit. 1,714,014; May 21.
- Forbes, Frederick B., Santa Monica, Calif. Self-releasing joist anchor. 1,704,826; Mar. 12.
- Forbes, Jerry U., Cincinnati, Ohio. Roll mounting. 1,676,640; Jan. 1.
- Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Grommet. 1,697,814; Jan. 1.
- Forbes Lithograph Manufacturing Company. (See Coombs, Fred H., assignor.)
- Forbes Manufacturing Co. Inc. (See Kessler, John L., assignor.)
- Forbes, Robert A., assignor of one-fifth to A. F. Miller, Hamilton, Ohio. Engine. 1,713,491; May 14.
- Forbush Shoe Company, The. (See Anderson, Reginald, assignor.)
- Force, John W., Wichita Falls, Tex. Automatic cut-off and gauge valve for oil tanks and the like. 1,704,501; Mar. 5.
- Force, Juliana R., administratrix. (See Force, Willard B.)
- Force, Willard B., deceased, New York, N. Y.; J. R. Force, administratrix. Dental tool. 1,712,469; May 7.
- Ford, Ben K., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacturing Connection plugs. 1,722,739; July 30.
- Ford, Ben K., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for testing flexible strands. 1,739,298; Dec. 10.
- Ford, Bertram J., et al. (See Bedel, Anselm L., assignor.)
- Ford Bros. (See Kersten, Ferdinand P., assignor.)
- Ford, Bruce, Philadelphia, Pa. Steam heating system. 1,721,693; July 23.
- Ford, Bruce, Philadelphia, Pa. Storage-battery-cell closure. 1,732,153; Oct. 15.
- Ford, Bruce, Philadelphia, Pa. Storage-battery cover. 1,736,115; Nov. 19.
- Ford, Bruce, Philadelphia, Pa. Filling-vent structure for storage batteries. 1,736,116; Nov. 19.
- Ford, Clara P. (See Stickney, Charles A., assignor.)
- Ford, David, assignor to Sanitary Shaker Corporation, Lynchburg, Va. Condiment package. 1,705,970; Mar. 19.
- Ford, David O., assignor to Sanitary Shaker Corporation, Lynchburg, Va. Individual salt container. 1,729,213; Sept. 24.
- Ford, Edsel B., Detroit, Mich. Radiator shell. Des. 77,682; Feb. 12.
- Ford, Edward, Plate Glass Company, The. (See Fowler, Ival G., assignor.)
- Ford, Edward, Plate Glass Company, The. (See Platt, Archie W., assignor.)
- Ford, Edwin H., assignor to Ford Meter Box Company, Wabash, Ind. Magnetic meter motor. 1,724,272; Aug. 13.
- Ford, Edwin H., assignor to Ford Meter Box Company, Wabash, Ind. Magnetic meter. 1,724,873; Aug. 13.
- Ford, Ernest B., Unionville, N. J. Tube cleaner. 1,713,895; May 21.
- Ford, Eugene A., Scarsdale, assignor to The Tabulating Machine Company, Endicott, N. Y. Sorting machine. 1,698,844; Jan. 15.
- Ford, Eugene A., Scarsdale, assignor to The Tabulating Machine Company, Endicott, N. Y. Sorting machine. 1,741,985; Dec. 31.
- Ford, Frank E., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Furnace-casing bonnet. 1,700,833; Feb. 5.
- Ford, Frank R., jr., Roseland, N. J. Radiator attachment. 1,712,656; May 14.
- Ford, George C., et al. (See Rollins, L. P., and Banks, assignors.)
- Ford, George W. (See Ponting, H. G., and Ford.)
- Ford, Henry, Dearborn, Mich. Welding wire wheels. 1,701,843; Feb. 12.
- Ford, Henry, Dearborn, Mich. Forming fans. 1,707,463; Apr. 2.
- Ford, Henry, Dearborn, Mich. Engine starter and generator unit. 1,716,627; June 11.
- Ford, Henry, Dearborn, Mich. Making spark plugs. 1,723,026; Aug. 6.
- Ford, Henry, Dearborn, Mich. Tank cap. 1,724,346; Aug. 13.
- Ford, Henry, Dearborn, Mich. Brake-operating rockshaft. 1,726,815; Sept. 3.
- Ford, Henry, Dearborn, Mich. Forming brake shoes. 1,727,874; Sept. 10.
- Ford, Henry, Dearborn, Mich. Starter gear. 1,729,421; Sept. 24.
- Ford Instrument Company. (See Heller, H. H., and Colson, assignors.)
- Ford Instrument Company. (See Ranson, Robert, assignor.)
- Ford Instrument Co. (See Tanner, Harry L., assignor.)
- Ford Instrument Company. (See Uhl, Arthur W., assignor.)
- Ford, Ira D., Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich. Button. 1,702,768; Feb. 19.
- Ford, Ira D., Roseland, Ontario, Canada, assignor to Universal Button Fastening & Button Company, Detroit, Mich. Securing means. 1,730,607; Oct. 8.
- Ford, J. B., Company, The. (See McEwan, William W., assignor.)
- Ford, James B. (See Butler, Raymond C., assignor.)
- Ford, James B., Washington Township, Logan County, Ohio. Fountain-pen ink-vending machine. 1,714,082; May 21.
- Ford, James O., Santa Ana, Calif. Bathing suit. 1,730,812; Oct. 8.
- Ford, John B., jr. (See Brigham, Martin E., assignor.)
- Ford, Leroy S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical cable. 1,726,551; Sept. 3.
- Ford, Leroy S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical cable. 1,727,971; Sept. 10.
- Ford, Leroy S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical cable. 1,727,972; Sept. 10.
- Ford Meter Box Company. (See Ford, Edwin H., assignor.)
- Ford Motor Company. (See Hicks, Harold A., assignor.)
- Ford Motor Company. (See Hovey, Oscar E., assignor.)
- Ford Motor Company, The. (See Linn, Raymond, assignor.)
- Ford Motor Company. (See Wharam, John J., assignor.)
- Ford, Peter J., Naugatuck, Conn. Lid lifter. 1,732,932; Oct. 22.
- Ford, Reginald, Coventry, assignor to D. D. Farquharson, Leamington Spa, England. Automatic brake mechanism for hand-propelled vehicles. 1,709,527; Apr. 16.
- Ford Regulator Valve Co. Inc. (See Ford, Thomas B., assignor.)
- Ford, Sam, Toledo, Ohio. Combined bed and wardrobe. 1,715,651; June 4.
- Ford, Sam, Toledo, Ohio. Combined bed and trunk. 1,715,748; June 4.
- Ford, Sam, Toledo, Ohio. Corner fastening for bed rails. 1,741,051; Dec. 24.
- Ford, Samuel A., and R. Waldie, Oakland, Calif. Fire-place. 1,711,090; Apr. 30.
- Ford, Thomas B., assignor to Ford Regulator Valve Co. Inc., New York, N. Y. Valve. 1,712,298; May 7.
- Ford, Trace S., Des Moines, Iowa. Coffee-pot. Des. 79,069; July 30.
- Ford, William C., Andover, Mass. Combined penholder and ink holder. 1,733,955; Oct. 29.
- Fordham, George H., Walnut Grove, Minn. Hog-catcher tongs. 1,709,615; Apr. 16.
- Foree, Robert L. (See Elms, J. J., and Foree.)
- Foreman, Frank, Toronto, Ontario, Canada. Bending machine. 1,711,524; May 7.
- Foreman, Harry, Blue Ball, Pa. Demountable-rim lock. 1,712,880; May 14.
- Forero, Arcadio. (See Hirt, O., Avilés, and Forero.)
- Foresman, Robert A., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Water back for furnaces. 1,701,480; Feb. 5.
- Foresman, Robert A., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Underfeed stoker. 1,714,977; May 28.



- Foresman, Robert A., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Stoker. 1,731,771; Oct. 15.
- Foresman, Robert A., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combustion apparatus. 1,739,133; Dec. 10.
- Foresman, Robert A., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refuse pit. 1,739,135; Dec. 10.
- Forges & Ateliers de Constructions Electriques de Jemont. (See Letrilliart, Pierre, assignor.)
- Forgy, George W. (See Pile, O. P., and Forgy.)
- Forman Bros. Inc. (See Forman, Solomon, assignor.)
- Forman, Henry E., Kansas City, Mo. Rope fastener. 1,718,641; June 25.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Toggle switch. 1,718,040; June 18.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Electric lock. 1,724,467; Aug. 13.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Quick-release valve. 1,726,102; Aug. 27.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Pneumatically-operated trap and door for vehicles. 1,730,880; Oct. 8.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Door lock. 1,737,414; Nov. 26.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Treadle switch structure. 1,739,961; Dec. 17.
- Forman, Solomon, New York, assignor to Forman Bros. Inc., Brooklyn, N. Y. Casserole cover or similar article. Des. 79,462; Sept. 24.
- Formentos, Vicente L., Manila, P. I. Refrigerator. 1,725,627; Aug. 20.
- Formoso, Andrew, New York, N. Y. Windshield cleaner. 1,729,069; Sept. 24.
- Fornaca, Guido, Turin, Italy. Liquid-operated brake for motor vehicles. 1,706,394; Mar. 26.
- Fornaca, Guido, Turin, Italy. Wheel-suspension means for motor vehicles. 1,711,881; May 7.
- Fornaca, Guido, Turin, Italy. Internal-combustion engine. 1,711,882; May 7.
- Fornaca, Guido, Turin, Italy. Two-stroke, multicylinder, superfed engine. 1,717,768; June 18.
- Fornaca, Guido, Turin, Italy. Internal-combustion-engine cylinder. 1,724,012; Aug. 13.
- Fornaca, Guido, Turin, Italy. Wheel-suspension means for motor vehicles. 1,726,615; Sept. 3.
- Fornaca, Guido, Turin, Italy. Balancing apparatus for slide valves of compressors. 1,730,200; Oct. 1.
- Fornay, Walter S. (See Mitchell, Walter T., assignor.)
- Forner, Georg, Berlin, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Steam-turbine stage. 1,697,174; Jan. 1.
- Forney, Arthur, Baltimore, Md. Selective vending and change-making machine. 1,721,441; July 16.
- Forney, Frank S., Niles, and J. Brzezinski, Warren, assignors of one-fourth to W. H. Forney, Niles, Ohio. Shears. 1,727,760; Sept. 10.
- Forney, Ross H., Dallas, Tex. Packing ring for pumps. 1,706,445; Mar. 26.
- Forney, William H. (See Forney, F. S., and Brzezinski, assignors.)
- Forni, Natale, Oakland, Calif. Valve box. 1,710,571; Apr. 23.
- Forrest, Andrew, assignor to Interstate Iron and Steel Company, Chicago, Ill. Header for ingot molds. 1,703,523; Feb. 26.
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Game court. 1,699,660; Jan. 22.
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Building construction. 1,700,930; Feb. 5.
- Forrest, Charles N., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Bituminous composition and producing the same. 1,711,727; May 7.
- Forrest, Thomas W. W., Oakland, assignor to Sun Maid Raisin Growers of California, Fresno, Calif. Dried-fruit product. 1,711,728; May 7.
- Forrest, Thomas W. W., Oakland, assignor to Sun Maid Raisin Growers of California, Fresno, Calif. Treating fruits, especially raisins. 1,711,729; May 7.
- Forrest, Thomas W. W., Fresno, and T. O. L. Smith, Oakland, assignors to Sun-Maid Raisin Growers of California, Fresno, Calif. Method of and apparatus for removing pits from prunes. 1,715,700; June 4.
- Forrest, Thomas W. W., Oakland, assignor to Sun Maid Raisin Growers of California, Fresno, Calif. Hot-fruit cooling and treating apparatus. 1,726,816; Sept. 3.
- Forrest, Thomas W. W., assignor to California Peach & Fig Growers Association, Fresno, Calif. Apparatus for fig inspection. 1,729,611; Oct. 1.
- Forrest, White A. (See Shadley, B., and Forrest.)
- Forrester, James B. (See Ambrose, W. F., and Forrester.)
- Forrey, George C., Jr. (See Bugbee, Lucian W., Jr., assignor.)
- Forry, Archie D., Clarksville, Iowa. Hand truck. 1,717,377; June 18.
- Forsberg, Erik A., assignor to Aktiebolaget Separator-Nobel, Stockholm, Sweden. Separating paraffinous constituents from fluid hydrocarbons. 1,699,286; Jan. 15.
- Forsberg, Erik A., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Milk-machine pulsator. 1,711,525; May 7.
- Forsberg, John A., Chicago, Ill. Ignition switch. 1,719,049; July 2.
- Forsberg, Marcus, Plainfield, N. J. Hair-drying device. 1,697,859; Jan. 8.
- Forse, Edwin B., Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Laboratory muffle. 1,710,870; Apr. 30.
- Forse, W. H., Jr., et al. (See Jones, Griffith, assignor.)
- Forse, William, London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Record disk for talking machines and the like. 1,702,564; Feb. 19.
- Forseille, Lucien F., assignor of one-half to C. W. Kendle, Cincinnati, Ohio. Electric switch. 1,709,068; Apr. 16.
- Forsén, Lennart, Gerknas, Finland. Hydraulic-cement composition and producing same. 1,712,818; May 14.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Hot plate. 1,697,175; Jan. 1.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric heater. 1,697,176; Jan. 1.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Waffle iron. 1,705,727; Mar. 19.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric-range construction. 1,709,664; Apr. 16.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Range-oven construction. 1,710,770; Apr. 30.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Sandwich toaster. 1,728,751; Sept. 17.
- Forshee, Frank F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Range-base cabinet. 1,728,792; Sept. 17.
- Forshee, Frank F., and F. Thornton, Mansfield, Ohio, assignors to Westinghouse Electric & Manufacturing Company. Electric iron. 1,728,791; Sept. 17.
- Forshee, Margaret K. (See Rodger, William M., assignor.)
- Forstlund, Oscar F., Chicago, Ill. Check holder and punch. 1,735,241; Nov. 12.
- Forst, Daniel P. (See Anderson, R. E., and Forst.)
- Forst, John, assignor to Manhattan Wicker Co., New York, N. Y. Armchair. Des. 79,019; July 23.
- Forst, John, assignor to Manhattan Wicker Co., New York, N. Y. Armchair. Des. 79,020; July 23.
- Forst, John, assignor to Manhattan Wicker Co., New York, N. Y. Chair. Des. 79,021; July 23.
- Forst, John, assignor to Manhattan Wicker Co., New York, N. Y. Combination seat and back rest. Des. 79,587; Oct. 15.
- Forster, Alois W., Brooklyn, N. Y. Method and apparatus for sheathing structural members with concrete. 1,715,497; June 4.
- Forster, John C., Pittsburgh, Pa. Household tool. 1,712,987; May 14.
- Forstner Chain Corporation. (See Forstner, William, assignor.)
- Forstner, William, Orange, assignor to Forstner Chain Corporation, Irvington, N. J. Bracelet. 1,701,610; Feb. 12.
- Forstner, William, assignor to Forstner Chain Corporation, Irvington, N. J. Chain. 1,723,610; Aug. 6.
- Forstner, William, Orange, assignor to Forstner Chain Corporation, Irvington, N. J. Bracelet, necklace, or the like. 1,726,700; Sept. 3.
- Forstner, William, assignor to Forstner Chain Corporation, Irvington, N. J. Chain. 1,730,652; Oct. 8.
- Forsyth, Benjamin F., Chicago, Ill. Adjustable seat. 1,711,526; May 7.
- Forsyth Draft-Gear Corporation. (See Forsyth, Joseph E., assignor.)
- Forsyth, Florence A., executrix. (See Forsyth, William H.)
- Forsyth, George H., Chicago, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Disk steel wheel. Re17,332; June 25.
- Forsyth, George H., Chicago, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Wheel. 1,733,727; Oct. 29.
- Forsyth, Harold D., Marblehead, Mass. Die block. 1,732,331; Oct. 22.
- Forsyth, Joseph E., Chicago, Ill., assignor to Forsyth Draft-Gear Corporation. Draft gear. 1,739,134; Dec. 10.
- Forsyth, Robert, assignor to R. N. Burton, trustee, Chicago, Ill. Process and apparatus for deriving spinning fiber from fiber-bearing plant stems. 1,729,772; Oct. 1.
- Forsyth, Thomas B., Elizabeth, Pa. Adjustable trolley frog or switch. 1,711,883; May 7.
- Forsyth, William H., deceased, Westwood, N. J.; F. A. Forsyth, executrix. Aeroplane. 1,715,284; May 28.
- Fortenbaugh, John W. (See Bennett, T., Sloane, and Fortenbaugh.)
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Crest voltmeter. 1,697,177; Jan. 1.



- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combined wireless sending and receiving system. 1,715,701; June 4.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-speed circuit interrupter. 1,730,881; Oct. 8.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-sequence relay. 1,736,434; Nov. 19.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective system for electrical apparatus. 1,736,435; Nov. 19.
- Fortescue, Charles Le G. (See Sleeper, H. P., and Fortescue.)
- Fortescue, Charles Le G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone protective system. 1,728,534; Sept. 17.
- Fort Howard Paper Company. (See Shaffer, Glenn A., assignor.)
- Fort Howard Paper Company. (See Shaffer, G. A., and Wirtz, assignors.)
- Fortier, Charles L., assignor to Johnson Service Company, Milwaukee, Wis. Temperature regulation. 1,724,847; Aug. 13.
- Fortin, Dan, Seattle, Wash. Hook lock. 1,715,192; May 28.
- Fortin, Georges, Quebec, Quebec, Canada. Locking device for automobiles. 1,721,013; July 16.
- Fortin, Paul R. (See Gosling, J. W., and Fortin.)
- Fortin, Paul R., Schenectady, N. Y., assignor to General Electric Company. Jack plug. 1,706,284; Mar. 19.
- Fortkamp, Herman, Chickasaw, Ohio. Changeable sign. 1,735,386; Nov. 12.
- Fort Pitt Bedding Company. (See Findura, John A., assignor.)
- Fort Pitt Bedding Company. (See Stubnitz, Maurice, assignor.)
- Fort Pitt Mine Equipment Company. (See Johnson, George M., assignor.)
- Fort Pitt Steel Casting Company. (See Lynch, Charles A., assignor.)
- Fort Wayne Engineering and Manufacturing Company. (See Tannehill, Vernon L., assignor.)
- Forward, Charles, assignor to A. Wander Limited, London, England. Hermetically-sealed tin and other containers. 1,715,161; May 28.
- Forward, Chauncey B., Urbana, Ohio. Refining oil. 1,698,811; Jan. 15.
- Forward, Joseph W., et al. (See Gates, George E., assignor.)
- Forward, Walter L. (See Hollander, A., and Forward.)
- Fosbury, William F., Culver City, Calif. Feed-water heater or condenser. 1,710,818; Apr. 30.
- Foshay, Charles W., Brooklyn, N. Y. Color chart. 1,709,975; Apr. 23.
- Fosmoe, Ole H., Muskegon, Mich. Arch support. 1,699,883; Jan. 22.
- Fosnes, Walter. (See Butts, Horace R., assignor.)
- Foss, Edmund, assignor of one-third to M. Voll and one-third to F. F. Hopkins, Seattle, Wash. Door for freight cars. 1,734,870; Nov. 5.
- Foss, John E., Long Beach, Calif. Vehicular amusement device. 1,707,516; Apr. 2.
- Foss, Laurence M., assignor to Morrison-Skinner Company, Wakefield, Mass. Metal-screen-frame pull. 1,711,050; Apr. 30.
- Foss, Leonard R. and R., Oakland, Calif. Lamp shade and making same. 1,720,787; July 16.
- Foss, Oscar F., Rockford, Ill. Ash tray. Des. 78,704; June 11.
- Foss, Ruby. (See Foss, Leonard R. and R.)
- Foss, Thomas M., assignor of one-third to Merchant & Kilgore, Minneapolis, Minn. Emergency rivet. 1,700,354; Jan. 29.
- Foss, Wilhelm, Zella-Mehlis, Germany. Operating valve for air guns. 1,730,201; Oct. 1.
- Foss, William A., Cleveland, Ohio. Artificial lure for fish. 1,709,010; Apr. 16.
- Fosshage, J., administrator. (See Syvrud, Thomas K.)
- Foster Brothers Manufacturing Company. (See Frank, William E., assignor.)
- Foster, Carrel. (See Rex, W. H., assignor, and Woodward.)
- Foster, Charles E., Letchworth, England. Electrical measuring instrument. 1,708,294; Apr. 9.
- Foster, Charles E., Letchworth, England. Radiation pyrometer. 1,714,664; May 28.
- Foster, Claude W., assignor to Natural Fluid Lift Company, Bradford, Pa. Fluid lift. 1,730,321; Oct. 1.
- Foster, Daniel H., Gowanda, N. Y. Unit steam or hot-water radiator. 1,699,184; Jan. 15.
- Foster, Emory M., Southgate, Calif. Spraying machine. 1,705,398; Mar. 12.
- Foster, Ernest C., Inkster, Mich. Differential. 1,738,179; Dec. 3.
- Foster, Frank B., Beaver, Pa. Making metal castings. 1,707,117; Mar. 26.
- Foster, Guy T., Dayton, Ohio, assignor to Locomotive Economizer Corporation, New York, N. Y. Smoke box of locomotives. 1,721,212; July 16.
- Foster, Harry C., Connersville, Ind. Head-lamp-dimming plug. 1,696,948; Jan. 1.
- Foster, Harry C., assignor to Indiana Lamp Corporation, Connersville, Ind. Reflector for headlights. 1,732,884; Oct. 22.
- Foster, Harry C., assignor to Indiana Lamp Corporation, Connersville, Ind. Multiple signal light and unit assembly. 1,740,541; Dec. 24.
- Foster, Howard L., Detroit, Mich. Coil for artificial refrigerating system. 1,702,565; Feb. 19.
- Foster, John P., Paia, Maui, Hawaii. Filter plate. 1,722,497; July 30.
- Foster, John W., assignor to Arthur Harrison & Company, Chicago, Ill. Lighting fixtures. Des. 79,229; Aug. 20.
- Foster, Joseph A., East Millbury, Mass. Antiseptic mouth-piece for telephones. 1,732,159; Oct. 15.
- Foster & Kleiser Company. (See Olmsted, Roger W., assignor.)
- Foster, Lee B., assignor to The Parella Corporation, Pittsburgh, Pa. Umbrella. 1,715,322; May 28.
- Foster, Leon V., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope condenser. 1,716,308; June 4.
- Foster Machine Company. (See McKean, John O., assignor.)
- Foster, Nathan, and L. Troskin, New York, N. Y. Combined full-dress shirt and vest. 1,718,128; June 18.
- Foster, Raymond L., Apponaug, R. I. Water-feed control for liquid-fuel burners. 1,717,966; June 18.
- Foster, Robert B. (See Westfall, M. C., Klauberg, and Foster.)
- Foster, Robert W. (See Nahikian, K. M., Foster, and Belden.)
- Foster, Spottswood C. (See Brydges, W., and Foster.)
- Foster, Theodore W., & Brother Company. (See Foster, William C., assignor.)
- Foster, Theodore W., & Bro. Co. (See Parkin, Winfred T., assignor.)
- Foster, Thomas E., Seattle, Wash. Clothes stick. 1,731,654; Oct. 15.
- Foster, Thomas J., Ridgewood, N. J. Building construction. 1,717,444; June 18.
- Foster, Thomas J., Ridgewood, N. J. Building construction. 1,739,754; Dec. 17.
- Foster, Walter H. (See Eden, James A., jr., assignor.)
- Foster, Walter H. (See Glenn, Carl O., assignor.)
- Foster, Walter H. (See Markland, Wyllis H., assignor.)
- Foster, Warren D. (See Ponting, H. G., and Ford, assignors.)
- Foster Wheeler Corporation. (See Bell, John E., assignor.)
- Foster Wheeler Corporation. (See Irish, David J., assignor.)
- Foster Wheeler Corporation. (See Lonsdale, William, assignor.)
- Foster Wheeler Corporation. (See Potter, John A., assignor.)
- Foster Wheeler Corporation. (See Primrose, John, assignor.)
- Foster Wheeler Corporation. (See Sieder, Everett N., assignor.)
- Foster Wheeler Corporation. (See Swenson, Frank J., assignor.)
- Foster Wheeler Corporation. (See Winslow, William H., assignor.)
- Foster, William, Philadelphia, Pa. Disconnecting device. 1,701,877; Feb. 12.
- Foster, William B. (See Le Roy, W. E., and Foster.)
- Foster, William C., assignor to Theodore W. Foster & Brother Company, Providence, R. I. Belt buckle. 1,713,221; May 14.
- Foster, William T., Easton, assignor to Fisher Scientific Company, Pittsburgh, Pa. Photographic device. 1,714,665; May 28.
- Fostoria Glass Company. (See Magee, William H., assignor.)
- Fostoria Glass Company. (See Bottome, Edgar M., assignor.)
- Fostoria Serum Company, The. (See Sheeran, Emmet P., assignor.)
- Fotakis, John. (See Theoharis, T., and Fotakis.)
- Fotheringham, George L., Long Branch, N. J., assignor to Revere Rubber Company, Chelsea, Mass. Golf ball. 1,716,435; June 11.
- Fotheringham, Robert M., Buffalo, N. Y. Buffing machine. 1,708,569; Apr. 9.
- Foto-Graf-Ic Co. of America, Inc. (See Fullenlove, McClellan C., assignor.)
- Föttinger, Hermann, Berlin-Wilmersdorf, Germany. Internal-combustion pump. 1,727,280; Sept. 3.
- Fouch, Ranthus B., Minneapolis, Minn. Motor-vehicle number plate. Des. 78,200; Apr. 9.
- Foucher, Constance, Los Angeles, Calif. Support for sardons. 1,737,081; Nov. 26.
- Fought, Emory K., and E. G. Whitney, Toledo, Ohio. Automobile lock. 1,719,539; July 2.
- Fought, William O., Jr., West Concord, Mass. Corner brace for furniture. 1,736,195; Nov. 19.
- Foulder, Henry B., Glenbrook, assignor of one-half to J. P. Curry, Riverside, Conn. Sealing articles with wire. 1,739,755; Dec. 17.
- Foulds, Robinson P., J. T. Marsh, and F. C. Wood, assignors to Tootal Broadhurst Lee Company Limited, Manchester, England. Textile material and the production thereof. 1,734,516; Nov. 5.



- Foulk, Charles W., assignor to The Kaufman & Lattimer Company, Columbus, Ohio. Density-measuring apparatus. 1,709,258; Apr. 16.
- Foulke, Roy D., assignor to W. D. Leiter, Warsaw, Ind. Finger splint. Re17,271; Apr. 16.
- Foulke, Ted E., Nutley, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Current rectifier and voltage regulator and circuits therefor. 1,701,751; Feb. 12.
- Foulkes, Edward T. (See Wuesthoff, Maximilian W., assignor.)
- Foulkrod, Byron B., Jamestown, N. Y. Combination stop and check valve. 1,717,022; June 11.
- Foundation Company, The. (See Osborne, Nelson R., assignor.)
- Fountain, Joseph N., assignor to Old Colony Envelope Company, Westfield, Mass. Deckling machine. 1,703,141; Feb. 26.
- Fountain, George A., Detroit, Mich. Beet harvester. 1,733,533; Oct. 29.
- Fourrethier, Baptiste, West Frankfort, Ill. Battery-carrying device. 1,723,147; Aug. 6.
- Fournet, Marcel, Paris, France. Surface treatment of metals. 1,726,431; Aug. 27.
- Fourneau, Ernest, Paris, France. Solution of ammonium salt of hydroxyacetylaminophenylarsenic acid. 1,697,910; Jan. 8.
- Fourness Development Corporation, The. (See Fourness, Wilfred, assignor.)
- Fourness, Wilfred, Pasadena, Calif., assignor, by mesne assignments, to The Fourness Development Corporation, New York, N. Y. Control system. 1,732,464; Oct. 22.
- Fournet, Sidney C., New Orleans, La. Tire carrier. 1,713,896; May 21.
- Fournier, Charles R., Everett, assignor to H. W. Howland, Seattle, Wash. Boring instrument. 1,705,049; Mar. 12.
- Fournier, George J., Danville, Ill. Classifier. 1,716,309; June 4.
- Fousek, Joseph, San Francisco, Calif. Preserving eggs, and the yolks and whites thereof. 1,724,078; Aug. 13.
- Foust, William E. (See Walsh, E. F., and Foust.)
- Fouts, Samuel E., Los Angeles, Calif. Vibrator. 1,709,122; Apr. 16.
- Fow, Raymond S., assignor, by mesne assignments, to Breeze Corporations Inc., Newark, N. J. Crane. 1,698,397; Jan. 8.
- Fowle, Arthur E., Berkeley, Calif., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for heating molten glass. 1,701,151; Feb. 5.
- Fowle, Irving H., Dorchester, Mass. Container. 1,734,477; Nov. 5.
- Fowler, Alexander. (See Robertson, K. J. R., and Fowler.)
- Fowler, Charles, Watseka, Ill. Indoor game. 1,712,073; May 7.
- Fowler, Charles E., New York, N. Y. Concrete pile. 1,703,817; Feb. 26.
- Fowler, Charlie L. (See Davis, H. D., and Fowler.)
- Fowler, Clarence B., Queens Village, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,733,290; Dec. 3.
- Fowler, Clarence B., New York, N. Y. Whistle cup. 1,739,451; Dec. 10.
- Fowler, Daniel E., assignor of one-third to F. R. McKay and one-third to N. M. Hawkins, El Paso, Tex. Vaporizing apparatus. 1,732,125; Oct. 15.
- Fowler, Douglas B. and J. R. Olney, Tex. Sand-testing device for oil wells. 1,736,907; Nov. 26.
- Fowler, Elihu W., New York, N. Y. Process and machine for drying lumber. 1,725,708; Aug. 20.
- Fowler, Frank E., Athens, Ga. Mixing machine. 1,731,129; Oct. 8.
- Fowler, Fred D., Newton, assignor to Hood Rubber Company, Watertown, Mass. Feed mechanism for sheet material. 1,716,375; June 11.
- Fowler, Harry P., assignor to The Waterbury Tool Company, Waterbury, Conn. Adjusting device for variable-speed driving mechanisms. 1,699,466; Jan. 15.
- Fowler, Herbert E., assignor to North East Electric Company, Rochester, N. Y. Freight brace. 1,708,413; Apr. 9.
- Fowler, Ival G., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Handling plate glass. 1,723,148; Aug. 6.
- Fowler, Ival G., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Glassware-forming means. 1,739,452; Dec. 10.
- Fowler, John R. (See Fowler, Douglas B. and J. R.)
- Fowler, John W., Cleveland, Ohio. Means in the feed line for preventing the formation of scale in a boiler. 1,710,535; Apr. 23.
- Fowler, Joseph E., Worcester, Mass. Oil burner. 1,707,850; Apr. 2.
- Fowler, Leonard H., assignor of one-half to William Edward Ballard Maidstone, England. Teapot. 1,722,696; July 30.
- Fowler, Lonnie B., and E. K. Allen, Creedmore, N. C. Tractor hitch for logging carts. 1,732,838; Oct. 22.
- Fowler, Mack J., M. Harmon, and L. H. Blankenship, assignors of one-fourth to J. R. Bagby, Roanoke, Va. Air brake. 1,711,379; Apr. 30.
- Fowler, Philip D., assignor to Lovekin Water Heater Company, Philadelphia, Pa. Thermostatic gas cut-off for hot-water boilers. 1,733,340; Oct. 29.
- Fowler, Preston, Gordon, Nebr. Potato-seed cutter. 1,726,145; Aug. 27.
- Fowler, Truman. (See Sedgwick, Theodore C., assignor.)
- Fowler, Willard P., Metropolis, Ill. Signaling system. 1,739,833; Dec. 17.
- Fowler, William S., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass. Cover paper or the like. Des. 78,881; July 2.
- Fox, A. H., Gun Company. (See Henke, Frederick, assignor.)
- Fox, A. H., Gun Company. (See Paxson, Walter R., assignor.)
- Fox, Ansley H., assignor, by mesne assignments, to Fox Holding Company, Philadelphia, Pa. Internal-combustion engine. 1,711,493; May 7.
- Fox-Case Corporation. (See Sponable, Earl I., assignor.)
- Fox, Cecil M., assignor, by mesne assignments, to The Strong Electric Company, Toledo, Ohio. Projection apparatus for stereopticon views and cinematographic films. Re17,350; July 2.
- Fox, Charles A., Deer Lodge, Mont. Electric switch mechanism. 1,734,668; Nov. 5.
- Fox, David, Brooklyn, N. Y. Adjustable shower door. 1,724,186; Aug. 13.
- Fox, E. P. (See Engel, George, assignor.)
- Fox, Ellis L., jr., Jeffersonville, Pa. Fluid-fuel dispenser. 1,729,665; Oct. 1.
- Fox Film Corporation. (See Leo, Jack G., assignor.)
- Fox, Harold E. (See Weyandt, C. S., and Fox.)
- Fox, Harold E., Pittsburgh, Pa., assignor to Central Electric Tool Company. Electrical control system. 1,708,384; Apr. 9.
- Fox, Harold E., Pittsburgh, Pa., assignor to Central Electric Tool Company. Synchronous-motor-control system. 1,724,650; Aug. 13.
- Fox, Harry, Lowell, Mass. Upholstery edge. 1,741,413; Dec. 31.
- Fox Holding Company. (See Fox, Ansley H., assignor.)
- Fox, John, New York, N. Y. Animal trap. 1,701,261; Feb. 5.
- Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-rolling apparatus. 1,702,504; Feb. 19.
- Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Plate-glass-transfer apparatus. 1,724,703; Aug. 13.
- Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for surfacing sheet glass. 1,724,704; Aug. 13.
- Fox, John H., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for rolling glass. 1,732,042; Oct. 15.
- Fox, John S., Marietta, Wash. Cable socket. 1,723,728; Aug. 6.
- Fox, Jonas H., Seattle, Wash. Boiler. 1,719,327; July 2.
- Fox, Julius S., Cleveland, Ohio. Launching and landing station. 1,709,069; Apr. 16.
- Fox, Le Vern, St. Louis, Mo. Repairing cuts in pavements. 1,707,391; Apr. 2.
- Fox, Levi B., Grimes, Iowa. Trace carrier. 1,732,402; Oct. 22.
- Fox, Martin, assignor to The Seng Company, Chicago, Ill. Corner lock. 1,726,291; Aug. 27.
- Fox, Martin, assignor to The Seng Company, Chicago, Ill. Connector for bed sections. 1,742,139; Dec. 31.
- Fox, Maud C. (See Scott, I. G., and Fox.)
- Fox, Nathaniel S., Bridgeton, N. J. Shiftable screen. 1,722,663; July 30.
- Fox, Ralph P., Harrisburg, Pa. Conveyor for dirigible hangars. 1,724,834; Aug. 13.
- Fox River Tractor Company. (See Saiberlich, Erwin W., R. A. O., and F., assignors.)
- Fox, William. (See Massolle, J., Vogt, and Engl, assignors.)
- Fox, William. (See Unterholzner, Josef, assignor.)
- Fox, William. (See Vogt, H., Massolle, and Engl, assignors.)
- Foxboro Company, The. (See Bristol, Bennet B. and E. H., assignors.)
- Foyle, Robert W., San Francisco, Calif., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,697,234; Jan. 1.
- Foyle, Robert W., San Francisco, Calif., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,703,304; Feb. 26.
- Fr. Küttner Aktiengesellschaft. (See Küttner, Hugo, assignor.)
- Frackelton, Henry A., Schenectady, N. Y. Truck for railroad vehicles. 1,733,590; Oct. 29.
- Fractionator Company, The. (See D'Yarmett, Edward C., assignor.)
- Fraggi, Ellie, New York, N. Y. Window sash. 1,718,224; June 25.
- Frahm, Carl A., assignor to Central Alloy Steel Corporation, Canton, Ohio. Sheet-opening method. 1,711,997; May 7.
- Frahm, Carl A., Massillon, assignor to The Union Metal Manufacturing Company, Canton, Ohio. Fluting machine. Re17,415; Aug. 20.
- Frailey, Percy R., Juniata, Pa. Burglar-trapping mechanism. 1,731,097; Oct. 8.
- Fraim, Samuel R., Lancaster, Pa. Padlock. 1,704,184; Mar. 5.
- Fraim, Samuel R., Lancaster, Pa. Locking device. 1,706,151; Mar. 19.
- Fraim, Samuel R., Lancaster, Pa. Padlock. 1,710,355; Apr. 23.



- Frain, William J. (See Powers, T. E., and Frain.)  
 Fraiss, Solomon, Manchester, England. Tobacco pipe. 1,703,729; Feb. 26.  
 Fraisse, Charles, Cavaillon, France. Manufacture of preserved fruit. 1,703,730; Feb. 26.  
 Fraley, Frank, Vicksburg, Miss. Advertising system. 1,723,027; Aug. 6.  
 Frambes, Gordon S., Jr., Columbus, Ohio. Reflector mechanism for automobiles. 1,722,244; July 23.  
 Frame, William, assignor to The Comfee Roll Garter Corporation, New York, N. Y. Garter. 1,728,859; Sept. 17.  
 Frampton, Wilbur R., and W. R. Reed, Independence, Kans. Auxiliary magazine for automatic rifles. 1,734,852; Nov. 5.  
 Frampton, William H., Charleston, S. C. Nonremovable cap for containers. 1,720,392; July 9.  
 France, Antoine, Liege, Belgium. Plant for washing minerals by means of liquid streams. 1,699,962; Jan. 22.  
 France, Antoine, Liege, Belgium. Plant for washing coal and other minerals. 1,704,185; Mar. 5.  
 France, Antoine, Liege, Belgium. Plant for washing coal and other minerals by means of liquid streams. 1,731,410; Oct. 15.  
 France, Edward E., Holyoke, Colo. Figure toy. 1,741,103; Dec. 24.  
 France, John P., Columbus, Ohio. Attachment for musical instruments. 1,729,336; Sept. 24.  
 Francis, Charles B., Pittsburgh, Pa. Leveling bottle. 1,724,013; Aug. 13.  
 Francis, Daniel R., assignor to The Waterbury Tool Company, Waterbury, Conn. Reversing valve. 1,716,881; June 11.  
 Francis, Daniel R., assignor to The Waterbury Tool Company, Waterbury, Conn. Driving mechanism for sectional machines. 1,722,905; July 30.  
 Francis, Franklin J., et al. (See Peirce, Mead, assignor.)  
 Francis, Jacob R. (See Heginbottom, W. G., and Francis.)  
 Francis, Jacob R. (See Redmond, Albert G., assignor.)  
 Franck, Clemence, deceased, San Francisco, Calif.; M. Frank, administrator, assignor to C. Conradi, San Francisco, Calif. Powder puff. 1,715,827; June 4.  
 Franck, Edwin G., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car roof. 1,736,088; Nov. 19.  
 Franck, Paul L., Santa Barbara, Calif. Automobile signaling device. 1,699,287; Jan. 15.  
 Franck, René, Selestat, France. Making endless wire fabrics. 1,735,640; Nov. 12.  
 Franco-American Shoe Ornament Company. (See Goldstein, Maurice, assignor.)  
 Francois, Joseph S. (See Cherrette, James A., assignor.)  
 Francotte, Regnier, Brussels, Belgium. Luminescent electric discharge tube. 1,723,929; Aug. 6.  
 Frander Mfg. Co. (See Freedman, Jacques R., assignor.)  
 Franey, Martin J., Shenandoah, Pa. Periodical holder. 1,736,908; Nov. 26.  
 Franke, Adolph, assignor to Tamboritz Manufacturing Company, Fort Recovery, Ohio. Banjo. 1,714,502; May 28.  
 Franich, Mariano, assignor to J. Di Lisis, trustee, Raton, N. Mex. Railroad-crossing gate. 1,706,112; Mar. 19.  
 Frank, Albert L., assignor to Seattle Tent & Awning Company, Seattle, Wash. Tent-roof frame. 1,709,568; Apr. 16.  
 Frank & Cohen Silk Corporation. (See Castro, Jean, assignor.)  
 Frank & Cohen Silk Corporation. (See Willheim, William, assignor.)  
 Frank, Clarence A., Cheyenne, Wyo. Combined air gauge and signal. 1,697,421; Jan. 1.  
 Frank, Emil R., assignor of one-third to W. D. Gamel, Sioux City, Iowa. Mechanism for automatically opening and closing garage doors. 1,734,899; Nov. 5.  
 Frank, Georg, Hamburg, Germany. Button. 1,718,858; June 25.  
 Frank, Harrison J. L., assignor to Mutual Electric & Machine Company, Detroit, Mich. Electric switch. 1,703,663; Feb. 26.  
 Frank, Harrison J. L., Detroit, Mich. Fuse cabinet. 1,733,370; Oct. 29.  
 Frank, Harrison J. L., assignor to Bull Dog Electric Products Company, Detroit, Mich. Switch. 1,731,489; Oct. 15.  
 Frank, Harrison J. L., assignor to Mutual Electric and Machine Company, Detroit, Mich. Metering panel. 1,733,369; Oct. 29.  
 Frank, Harrison J. L., assignor to Bulldog Electric Products Company, Detroit, Mich. Compound switch. 1,741,227; Dec. 31.  
 Frank, Ira H., Chicago, Ill. Interchangeable blade holder with locking device. 1,728,992; Sept. 24.  
 Frank, Isaac. (See Storch, M., and Frank.)  
 Frank, Isaac W., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Mill and feeding means therefor. 1,729,335; Sept. 24.  
 Frank, Jacob, Cleveland, Ohio. Extricating and nonskid device for vehicle wheels. 1,733,871; Oct. 29.  
 Frank, James, Old Forge, assignor to Pittston Home Helps Manufacturing Company, Pittston, Pa. Clothesline support. 1,727,029; Sept. 3.  
 Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Magnetic core. 1,717,199; June 11.  
 Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Transformer core. 1,717,200; June 11.  
 Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electric furnace. 1,736,587; Nov. 19.  
 Frank, Lawrence L., assignor to Van De Kamp's Holland Dutch Bakers, Los Angeles, Calif. Cake. Des. 79,706; Oct. 29.  
 Frank, Leo C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Time-delay low-voltage release. 1,736,438; Nov. 19.  
 Frank, Louis, Flushing, assignor to Greenpoint Metallic Bed Co., Inc., Brooklyn, N. Y. Tube-bending machine. 1,714,083; May 21.  
 Frank, Milton, administrator. (See Franck, Clemence.)  
 Frank, Olive E., Buffalo, N. Y., and H. P. Wilder, Detroit, Mich. Water-heating system. 1,717,967; June 18.  
 Frank, Otto H., Brooklyn, N. Y. Toggle switch. 1,736,152; Nov. 19.  
 Frank Simon & Company. (See Long, Dorothy M., assignor.)  
 Frank, William E., assignor to Foster Brothers Manufacturing Company, St. Louis, Mo. Folding couch or davenport. 1,732,007; Oct. 15.  
 Frankart, Inc. (See von Frankenberg, Arthur, assignor.)  
 Franke, Arthur H., Manitowoc, Wis. Combination comb and mirror case. 1,699,884; Jan. 22.  
 Franke, Bernard E., Catonsville, Md. Tinsel package. 1,725,449; Aug. 20.  
 Franke, Fred, & Co. (See Miller, J. E., and Cash, assignors.)  
 Franke, John B., assignor to Perfection Biscuit Company, Fort Wayne, Ind. Display rack. 1,697,235; Jan. 1.  
 Franke, John B., assignor to Perfection Biscuit Company, Fort Wayne, Ind. Display container. 1,722,460; July 30.  
 Franke, Otto, Birmingham, Ala., assignor to Birmingham Machine & Foundry Co. Intermediate carrier for sugar mills. 1,698,088; Jan. 8.  
 Franke, William G., and L. A. Reiner, Detroit, Mich. Conduit-outlet box. 1,724,999; Aug. 20.  
 Frankel, Leo. (See Smith, Clarence B., assignor.)  
 Frankenberg, Julius, Milwaukee, Wis. Pressure regulator. 1,712,657; May 14.  
 Frankenberg, Julius, Milwaukee, Wis. Automatic expansion valve. 1,712,697; May 14.  
 Frankenberg, Julius, New York, assignor of one-half to W. A. Smith, Woodhaven, Long Island, N. Y. Apparatus for cleaning films. 1,724,705; Aug. 13.  
 Frankenberger, Fred W., Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 78,619; May 28.  
 Frankenberger, Walter, and G. Roessler, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to Agfa Anso Corporation, Binghamton, N. Y. Preparation of photosensitive photographic emulsions. 1,738,530; Dec. 10.  
 Frankenheim, Aaron, Jersey City, N. J. Grate. 1,700,368; Jan. 29.  
 Frankenstein, William B., Rochester, N. Y. Dishpan. 1,737,754; Dec. 3.  
 Frankey, George. (See Thoenes, E. J., and Frankey.)  
 Frankl, Paul T., New York, N. Y. Chair. Des. 78,744; June 18.  
 Frankl, Paul T., New York, N. Y., assignor to Celluloid Corporation. Puff box or similar article. Des. 78,280; Apr. 16.  
 Frankl, Paul T., New York, N. Y., assignor to Celluloid Corporation. Brush or similar article. Des. 78,281; Apr. 16.  
 Frankl, Paul T., New York, N. Y., assignor to Celluloid Corporation. Scissors or similar article. Des. 78,282; Apr. 16.  
 Frankl, Paul T., New York, N. Y., assignor to Celluloid Corporation. Puff box or similar article. Des. 78,512; May 14.  
 Frankl, Paul T., New York, N. Y., assignor to Celluloid Corporation. Cuticle knife or similar article. Des. 79,022; July 23.  
 Frankl, Paul T., New York, N. Y., assignor to Celluloid Corporation. Mirror or similar article. Des. 79,023; July 23.  
 Frankie, Arthur C., assignor to The Mortimer Newman Company, New Haven, Conn. Animal figure. Des. 77,594; Jan. 29.  
 Franklin, Albert W., New York, N. Y. Combined pendant cigar and cigarette lighter and lamp switch. Des. 78,513; May 14.  
 Franklin, Albert W., New York, N. Y. Device for indicating temperature conditions. 1,704,244; Mar. 5.  
 Franklin, Albert W., New York, N. Y. Article of furniture. 1,709,123; Apr. 16.  
 Franklin, Albert W., New York, N. Y. Flasher plug. 1,720,470; July 9.  
 Franklin, Albert W., New York, N. Y. Combined electric-lighting fixture and cigarette lighter. 1,728,049; Sept. 10.  
 Franklin-American Trust Company, administrator. (See Fynn, Valère A.)  
 Franklin American Trust Company, administrator. (See Fynn, Valère A., assignor.)  
 Franklin, Charles S., Buckhurst Hill, England, assignor to Radio Corporation of America. Directional antenna. 1,740,851; Dec. 24.  
 Franklin, Charles S., St. Michaels, England, assignor to Radio Corporation of America. Thermionic valve. 1,721,148; July 16.



- Franklin, Charles S., Buckhurst Hill, W. J. Picken, South-end-on-Sea, and J. G. Robb, Reading, England, assignors to Radio Corporation of America. Aerial system for wireless signaling. 1,717,674; June 18.
- Franklin Development Corporation. (See Murphy, Ralph, assignor.)
- Franklin Development Corporation. (See Purdy, Lewis J., assignor.)
- Franklin, Ernest W. (See Cross, J. H., Franklin, and Schneider.)
- Franklin Equipment Company. (See Langer, Rudolph J., assignor.)
- Franklin, Hubert F., Hempstead, N. Y. Fluid-pressure-actuating mechanism. 1,718,457; June 25.
- Franklin, James S., St. Paul, Minn. Display rack. 1,731,411; Oct. 15.
- Franklin, James W., jr., Lewisville, N. C. Locking means and cover for valve stems. 1,704,286; Mar. 5.
- Franklin Machine Company. (See Seymour, W. I., and Shanahan, assignors.)
- Franklin, Mark B., Hoquiam, Wash. Traffic signal. 1,726,817; Sept. 3.
- Franklin Railway Supply Company. (See Genzlinger, Gustav, assignor.)
- Franklin Railway Supply Company. (See Peters, Frank R., assignor.)
- Franklin Railway Supply Company. (See Roberts, Montague H., assignor.)
- Franklin Railway Supply Company. (See Vincent, Harry S., assignor.)
- Franklin Simon & Company. (See Burns, Katherine E., assignor.)
- Franklin Simon & Company. (See Long, Dorothy, assignor.)
- Franklin Simon & Company. (See Schmolze, Mildred C., assignor.)
- Franklin Railway Supply Company. (See Holtom, William H., assignor.)
- Franklin Railway Supply Company. (See Lye, W. R., and Ferrier, assignors.)
- Franklin Railway Supply Company. (See Martin, F. W., and Roberts, assignors.)
- Franklin Railway Supply Company. (See Mohun, John L., assignor.)
- Franklin Railway Supply Company. (See Peters, Frank R., assignor.)
- Franklin Railway Supply Company. (See Roberts, Montague H., assignor.)
- Franklin Railway Supply Company. (See Shepard, Ralph H., assignor.)
- Franklin Rayon Corporation. (See Brown, L. T., and Evans, assignors.)
- Franko, Stephen D., Havre de Grace, Md. Hat cleaning and remodeling machine. 1,707,605; Apr. 2.
- Franks, Charles H., and J. K. Hunter, Akron, Ohio. Card case and shuffling device. 1,709,469; Apr. 16.
- Franks, Charles J., deceased, Cincinnati, Ohio; I. B. Franks, administratrix. Safety automobile tag holder. 1,719,540; July 2.
- Franks, Clem H. (See Adams, A. H., and Franks.)
- Franks, Clem H., La Grange, and G. L. Rock, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Assembling apparatus. 1,697,860; Jan. 8.
- Franks, Ida B., administratrix. (See Franks, Charles J.)
- Franson, Fritz H., Denver, Colo. Watch construction. 1,738,239; Dec. 3.
- Frantz, Axel J., Worcester, Mass. Clothes reel. 1,727,761; Sept. 10.
- Frantz, George A., et al., trustees. (See Baker, W. E., and Aland.)
- Frantz, George A., et al., trustees. (See Baker, William E., assignor.)
- Frantz, George A., et al., trustees. (See Baker, W. E., and Aland, assignors.)
- Frantz, Grover C., assignor to Modern Utilities Company, Harrisburg, Pa. Adjustable grading attachment. 1,701,069; Feb. 5.
- Frantz, Harry F., Cleveland, Ohio. Crutch attachment. 1,717,314; June 11.
- Frantz Manufacturing Co. (See Ferris, William D., assignor.)
- Frantz, Sidney H., Warren, Ohio. Collapsible crib. 1,732,008; Oct. 15.
- Franz, Charles H., jr., Milwaukee, Wis. Loose-leaf binder. 1,733,956; Oct. 29.
- Franz, Kuno. (See Schmidt, A., Balle, and Franz.)
- Franzen, Nicklas, Long Beach, Calif., assignor to Mississippi Glass Company, New York, N. Y. Producing sheet glass. 1,734,250; Nov. 5.
- Franzen, William T., Minneapolis, assignor to Louis F. Dow Company, St. Paul, Minn. Casting machine. 1,705,640; Mar. 19.
- Franzheim, George W., Ravenna, Ohio. Automatic cut-off. 1,727,503; Sept. 10.
- Franzosa, Joseph, Philadelphia, Pa. Chair for cello players. 1,735,921; Nov. 19.
- Frary, Robert S., Brooklyn, assignor to E. J. Shannon, Flushing, N. Y. Window appliance. 1,697,951; Jan. 8.
- Fraser, Frank, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-supporting table. 1,718,342; June 25.
- Fraser, Fred W., assignor of thirty-two per cent to D. E. Tiller, five and one-half per cent to C. A. Smith, and twenty-five per cent to R. N. Wakefield, Kansas City, Mo. Plug-polishing device. 1,717,554; June 18.
- Fraser, Gordon J., Harrigan Cove, Nova Scotia, Canada. Liquid applying and polishing device. 1,729,934; Oct. 1.
- Fraser, Helen. (See Kappeler, Felix, assignor.)
- Fraser, James, Edgemoor, assignor to Speakman Company, Wilmington, Del. Stopper. 1,707,352; Apr. 2.
- Fraser, James, Edgemoor, assignor to Speakman Company, Wilmington, Del. Valve-handle connection. 1,707,353; Apr. 2.
- Fraser, James, Hillcrest, assignor to The Speakman Company, Wilmington, Del. Valve handle. Des. 77,355; Jan. 1.
- Fraser, John, Brooklyn, N. Y. Vehicle chassis. 1,703,217; Apr. 9.
- Fraser, Malcolm W. (See Spillane, Arthur J., assignor.)
- Fraser, Warren F., Westboro, Mass. Grinding machine. 1,736,967; Nov. 26.
- Frates, Thomas L., Concord, Calif. Egg beater. 1,719,973; July 9.
- Frauenberger, Carl F., Franklin, Mass., assignor to Thomson National Press Co. Inc. Sheet-feeding mechanism. 1,717,503; June 18.
- Frazier, George H., Crafton, and A. E. Herrold, Pittsburgh, Pa. Derailer. 1,728,484; Sept. 17.
- Frazier, George S., Sebring, Ohio. Stair tread and manufacturing same. 1,732,933; Oct. 22.
- Frazier, Philip A., assignor to R. R. Donnelley & Sons Co., Chicago, Ill. Sheet holder. 1,734,618; Nov. 5.
- Frazier, Philip A., assignor to R. R. Donnelley & Sons Company, Chicago, Ill. Signature-gathering machine. 1,738,180; Dec. 3.
- Frazier, Sherman W. (See Wilson, William S., assignor.)
- Frazier, William H. (See Cross, A. B., and Frazier.)
- Frazzano, Antonio, Orange, N. J. Combination table and ironing board. 1,719,427; July 2.
- Freay, Charles F., Kennedy, N. Y. Throttle governor. 1,719,263; July 2.
- Frease, Donald W. (See Heacock, T. H., and Frease.)
- Frease, Hurxthal F., Canton, Ohio. Transmission-line tower. 1,728,050; Sept. 10.
- Frease, Hurxthal F. (See Rank, H. L., and Frease.)
- Freborg, Charles, and C. Jelly, assignors to The Starr Piano Company, Richmond, Ind. Chromatic glissando keyboard and playing the same. 1,706,604; Mar. 26.
- Frechett, George, Lowell, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for looms. 1,741,186; Dec. 31.
- Fred, Edwin B. (See Peterson, W. H., and Fred.)
- Fredenberg, Marion. (See McLaughlin, Frank, assignor.)
- Fredenhagen, Martin, La Grange, Ill. Refrigerator. 1,701,323; Feb. 5.
- Frederick, Charles H., assignor to Ingram-Richardson Manufacturing Company, Beaver Falls, Pa. Advertising sign. 1,735,040; Nov. 12.
- Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Illuminating reflector. 1,727,341; Sept. 10.
- Frederick, Fred. (See Nemnich, Gus, assignor.)
- Frederick Iron & Steel Company, The. (See Brice, Albert L., assignor.)
- Frederick, George H., Baltimore, Md. Device for draining, measuring, and canning oysters, etc. 1,716,771; June 11.
- Frederick, Harry A., New Rochelle, N. Y. Calendar device. 1,721,337; July 16.
- Frederick Iron & Steel Company, The. (See Hargis, George R., assignor.)
- Frederick, Louis T. (See Gooch, George A., assignor.)
- Frederick, Louis T., assignor to Chicago Mica Company, Valparaiso, Ind. Mica laying machine. 1,700,403; Jan. 29.
- Frederick, Louis T., assignor to Chicago Mica Company, Valparaiso, Ind. Making mica plate. 1,702,896; Feb. 19.
- Frederick, Louis T., assignor, by mesne assignments, to Chicago Mica Company, Valparaiso, Ind. Mica-separating machine. 1,722,082; July 23.
- Frederick, Louis T., assignor to Chicago Mica Company, Valparaiso, Ind. Disk-assembling mechanism. 1,735,609; Nov. 12.
- Frederick, Louis T., assignor to Fibroc Insulation Company, Valparaiso, Ind. Forming gear blanks and the like. 1,737,455; Nov. 26.
- Frederick, Roy I. (See McCash, Perry V., assignor.)
- Frederick, Walter A., assignor to Continental Motors Corporation, Detroit, Mich. Sleeve-valve-actuating mechanism. 1,697,560; Jan. 1.
- Fredericks, George, St. Paul, Minn., assignor to Swift & Company, Chicago, Ill. Barrel-heading machine. 1,708,385; Apr. 9.
- Frederickson, Milton O., Oakland, Calif. Condenser. 1,698,190; Jan. 8.
- Frederickson, Otto A., Wethersfield, assignor to The Wire-mold Company, Hartford, Conn. Braiding and wrapping machine. 1,704,838; Mar. 12.
- Frederickson, Otto A., Wethersfield, assignor to The Wire-mold Company, Hartford, Conn. Braiding machine. 1,707,718; Apr. 2.
- Frederickson, Otto A., Wethersfield, assignor to The Wire-mold Company, Hartford, Conn. Conductor-covering machine. 1,708,537; Apr. 9.



- Frederickson, Otto A., Wethersfield, assignor to The American Wiremold Co., Hartford, Conn. Electrical-circuit fitting. 1,713,526; May 21.
- Frederickson, Otto A., Wethersfield, assignor to The Wiremold Company, Hartford, Conn. Building fabric. 1,715,080; May 28.
- Frederickson, Otto A., Wethersfield, assignor to The Wiremold Company, Hartford, Conn. Electrical cable. 1,718,920; June 25.
- Frederickson, Otto A., Wethersfield, assignor to The Wiremold Company, Hartford, Conn. Braiding machine. 1,725,450; Aug. 20.
- Frederickson, Otto A., Wethersfield, assignor to The Wiremold Company, Hartford, Conn. Sheathed electrical conductor. 1,727,762; Sept. 10.
- Frederics, E., Inc. (See Brown, James C., assignor.)
- Frederics, Ernest O. (See Brown, James C., assignor.)
- Fredette, Frank D., Brooklyn, N. Y. Golf-ball holder. 1,722,134; July 23.
- Fredriksen, Hardy M., Seattle, Wash. Metal alloy for use in manufacturing electrical contacts. 1,732,839; Oct. 22.
- Fredson, Fred, Leoneth, Minn. Harrow. 1,717,708; June 18.
- Free, Chester A., Attica, Ind. Hot-air furnace and ventilating system. 1,727,540; Sept. 10.
- Free, John W., Woodlawn Borough, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Tie-wire inserting and crimping tool. 1,709,908; Apr. 23.
- Freeburg, George A., Elgin, Ill. Inductance. 1,699,661; Jan. 22.
- Freck, Selma, executrix. (See Fahrenbach K., and Freck.)
- Freck, William J. (See Fahrenbach K., and Freck.)
- Freed, Horace D. (See Weyler, F. P. A., and Freed.)
- Freed-Eisemann Radio Corporation. (See Freed, Joseph D. R., assignor.)
- Freed-Eisemann Radio Corporation. (See Shapiro, Lazarus, assignor.)
- Freed, Joseph D. R., Woodmere, assignor to Freed-Eisemann Radio Corporation, Brooklyn, N. Y. Balanced radioreceiver. 1,727,103; Sept. 3.
- Freedlander, Abraham L., assignor of three-fourths to The Dayton Rubber Manufacturing Company, and one-fourth to General Motors Research Company, Dayton, Ohio. Driving belt. 1,700,999; Feb. 5.
- Freeman, Bernard, Trenton, N. J., assignor of one-third to A. Clausen and one-third to S. Medoff, Philadelphia, Pa. Liquid-dispensing machine. 1,712,819; May 14.
- Freeman, Fred, Phoenix, Ariz. Tank-cap lock. 1,702,205; Feb. 12.
- Freeman, Jacques R., New York, N. Y. Decorative fabric. 1,715,12; May 28.
- Freeman, Jacques R., assignor to Frandor Mfg. Co., Inc., New York, N. Y. Decorative textile article. 1,701,152; Feb. 5.
- Freeman, Louis, University City, assignor to Freedman Piston Corporation, St. Louis, Mo. Piston. 1,733,957; Oct. 29.
- Freedman Piston Corporation. (See Freedman, Louis, assignor.)
- Freedman, Ruth, New York, N. Y. Lingerie fastener. 1,718,129; June 18.
- Freefuel Heater Company. (See King, Robert P., assignor.)
- Freegard, William, Elizabeth, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Apparatus for treating continuous sheet material. 1,701,878; Feb. 12.
- Freeman, Albert, New York, N. Y. Tobacco pipe. 1,727,401; Sept. 10.
- Freeman, Alonzo, Blacksburg, Va. Suit hanger. 1,723,980; Aug. 6.
- Freeman, Benjamin W. (See Freeman, Louis G. and B. W.)
- Freeman, Benjamin W., Cincinnati, Ohio. Power drive for slides. 1,716,954; June 11.
- Freeman, Benjamin W., Cincinnati, Ohio. Paper holder and rewinder. 1,722,133; July 23.
- Freeman, Charles F., et al., trustees. (See Freeman, Louis G. and B. W., assignors.)
- Freeman, Edgar K., assignor to Circle F. Mfg. Co., Trenton, N. J. Screw-shell contact for electrical sockets. 1,728,485; Sept. 17.
- Freeman, Ernest W., Belleville, N. J., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Container. 1,700,611; Jan. 29.
- Freeman, Hadley F., Lakewood, Ohio, assignor to H. A. Douglas, Bronson, Mich. Controlling power plants. 1,708,265; Apr. 9.
- Freeman, Harry K., Los Angeles, Calif. Seat cushion. 1,729,377; Sept. 24.
- Freeman, Hubert M. (See Sutherland, L., and Freeman.)
- Freeman, J. T. (See Moore, J. T., and Hollingsworth, assignors.)
- Freeman, James I., and L. J. Peterson, Modesto, assignors of one-third to A. F. Peterson, Oakland, Calif. Tire casing. 1,709,124; Apr. 16.
- Freeman, Louis G., et al., trustees. (See Freeman, Louis G. and B. W., assignors.)
- Freeman, Louis G. and B. W., assignors to L. G. Freeman, Cincinnati, Ohio, and C. F. Freeman, St. Louis, Mo., trustees. Shoe shaper. 1,720,891; July 16.
- Freeman Mfg. Co. (See Clay, James S., assignor.)
- Freeman, Ozie F., Stockton, Ala. Article of manufacture. 1,728,116; Sept. 10.
- Freeman, Paul J., El Reno, Okla. Electric lantern. 1,719,050; July 2.
- Freeman, Richard E., Beloit, Wis. Shoe lift. 1,725,000; Aug. 20.
- Freeman, Samuel, assignor to Paragon Distributing Corporation, New York, N. Y. Hair-curling device. 1,740,169; Dec. 17.
- Freeman, Will. (See Sperry, Philmore F., assignor.)
- Freeman, William A., Harrisonville, Mo. Snap-on live-decoy anchor. 1,697,561; Jan. 1.
- Freeman, William O., Trumann, Ark. Air-distributing device for electric fans. 1,728,117; Sept. 10.
- Freemark, Michael, Breckenridge, Minn. Emergency belt. 1,716,689; June 11.
- Freeport Sulphur Company. (See Burns, H. S., and Bushnell, assignors.)
- Freeport Sulphur Company. (See Bushnell, Lyman S., assignor.)
- Freer, Phelps M., Detroit, Mich. Piston. 1,739,221; Dec. 10.
- Freer, Phelps M., assignor of forty-nine per cent to A. C. Hamilton, Detroit, Mich., and fifty-one per cent to C. H. Lewis, Cleveland, Ohio. Piston. 1,708,500; Apr. 9.
- Freers, Fred E., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Switch mechanism. 1,740,977; Dec. 24.
- Freese, Claude H., assignor of one-fourth to T. A. Collins, Los Angeles, Calif., and one-fourth to C. A. Lundberg, Airship. 1,718,343; June 25.
- Freese, Claude H., assignor of one-fourth to M. L. Harrington, Los Angeles, and one-fourth to C. A. Lundberg, Long Beach, Calif. Airship. 1,736,439; Nov. 19.
- Freese, Ira H., Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Tumbler. Des. 77,760; Feb. 19.
- Freese, Ira H., Clarksburg, W. Va., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Goblet. Des. 79,326; Sept. 3.
- Frese, Albert W., assignor to General Motors Corporation, Detroit, Mich. Front-wheel brake. 1,712,954; May 14.
- Frese, Albert W., assignor to General Motors Corporation, Detroit, Mich. Brake lever. 1,717,075; June 13.
- Frese, Albert W., assignor to General Motors Corporation, Detroit, Mich. Spring bracket and making same. 1,734,008; Oct. 29.
- Frese, Albert W., assignor to General Motors Corporation, Detroit, Mich. Front-wheel brake. 1,738,768; Dec. 10.
- Freiday, Jay A. (See Murray, T. E., and Freiday.)
- Freiday, Jay A., East Orange, N. J., assignor to T. E. Murray, Brooklyn, N. Y. Boiler construction. 1,718,344; June 25.
- Freiday, Jay A., East Orange, N. J., assignor to T. E. Murray, Brooklyn, N. Y. Boiler. 1,718,345; June 25.
- Freiday, Jay A., East Orange, N. J., assignor to T. E. Murray, Brooklyn, N. Y. Flue expansion joint. 1,720,323; July 9.
- Freier Grunder Eisen- und Metallwerke Gesellschaft mit beschränkter Haftung. (See Steffe, Wilhelm, assignor.)
- Freileweh, Susannah M., Poughkeepsie, N. Y. Orthopedic device. 1,708,757; Apr. 9.
- Freilino, Secondo, Leechburg, Pa. Conveyer. 1,718,737; June 25.
- Freise, Heinrich, Bochum, Germany. Aeroplane wing. 1,734,801; Nov. 5.
- Freiss, Louis J., Brooklyn, N. Y. Blade carrier. 1,719,217; July 2.
- Freitag, Richard H., Akron, Ohio. Attachment for automobiles. 1,727,199; Sept. 3.
- Freivogel, Ernest, assignor of one-half to R. A. Jackson, Ridgefield, Conn. Tire remover. 1,716,882; June 11.
- Freling, Marion N., Kansas City, Mo. Luggage holder. 1,720,073; July 9.
- Fremont, Jules A., Leeper, Mo. Lock. 1,702,430; Feb. 19.
- French, Albert, Brooklyn, N. Y. Combustion-promotion device. 1,729,101; Sept. 24.
- French Battery Company. (See Anthony, Herman R. C., assignor.)
- French Battery Company. (See Gunderson, George G., assignor.)
- French Beading & Novelty Co. (See Katzman, J., and Kipnis, assignors.)
- French, Charles A., assignor to International Harvester Company, Chicago, Ill. Boiler. 1,703,228; Feb. 26.
- French, Charles A., assignor to International Harvester Company, Chicago, Ill. Automotive boiler system. 1,729,102; Sept. 24.
- French, Charles A., Columbus, assignor to Farmers National Bank, Greenville, Ohio. Steam power plant. 1,731,458; Oct. 15.
- French, Charles A., and R. R. Waterman, Long Beach, Calif., assignors to Farmers National Bank, trustee, Greenville, Ohio. Air-sealing apparatus for steam-power plants. 1,698,947; Jan. 15.
- French, Charles A., and R. R. Waterman, Long Beach, Calif., assignors to Farmers National Bank, trustee, Greenville, Ohio. Fuelizer for hydrocarbons. 1,733,658; Oct. 29.
- French, Charles A., and R. R. Waterman, Long Beach, Calif., assignors to Farmers National Bank of Greenville, Ohio, trustee, Greenville, Ohio. Apparatus for controlling automotive steam vehicles. 1,737,581; Dec. 3.
- French Electric Company. (See French, George B., assignor.)
- French, Frederick W., Oakland, Calif. Vertical file. 1,713,897; May 21.



- French, George B., Southampton, assignor to French Electric Company, Inc., New York, N. Y. Telephonic communicating means. 1,730,761; Oct. 8.
- French, George B., Southampton, assignor to French Electric Co., Incorporated, New York, N. Y. Microphonic transmitter. 1,730,813; Oct. 8.
- French, George B., Southampton, N. Y., assignor to French Electric Company Inc. Telephone-receiver cap. 1,732,043; Oct. 15.
- French, George F., Manchester, England. Curtain-rail-supporting bracket. 1,712,658; May 14.
- French, George F., Manchester, England. Cartridge belt. 1,723,692; Aug. 6.
- French, Gordon W. (See Robinson, P. G., Sargent, and French.)
- French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,706,113; Mar. 19.
- French, Henry R. (See Harris, W. A., and French.)
- French, Henry R., Rutherford, N. J., assignor to The Flintkote Company, Boston, Mass. Roofing. 1,699,963; Jan. 22.
- French, James W., assignor to Barr and Stroud, Limited, Glasgow, Scotland. Apparatus for the solution by optical means of data capable of representation in the form of triangles. 1,725,070; Aug. 20.
- French, John F. (See Darrow, N. J., and French.)
- French, Louis O., Milwaukee, Wis. Fuel-injection-control mechanism. 1,697,952; Jan. 8.
- French, Louis O., Milwaukee, Wis. Electromagnetic valve. 1,697,953; Jan. 8.
- French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,705,665; Mar. 19.
- French, Louis O., Milwaukee, Wis. Internal-combustion engine. 1,708,056; Apr. 9.
- French, Louis O., Milwaukee, Wis. Fuel-injection system. 1,734,802; Nov. 5.
- French, Norman R., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Compound loading system. 1,741,926; Dec. 31.
- French Oil Mill Machinery Co., The. (See Stacy, Thomas F., assignor.)
- French Road Company. (See Rueppel, Frederick, assignor.)
- French, Shirley S., Canton, Ohio, assignor to The Berger Manufacturing Company. Locker latch. 1,729,038; Sept. 24.
- French, Shirley S., Canton, Ohio, assignor to The Berger Manufacturing Company. Locker latch. 1,729,039; Sept. 24.
- French, Willard C., Milton, Mass., assignor to Hookless Fastener Company, Meadville, Pa. Tape for stringers for separable fasteners. 1,734,165; Nov. 5.
- French, Wilbert, et al. (See Alferink, William, assignor.)
- Freund, Edward W., Chicago, Ill. Ventilator. 1,716,223; June 4.
- Frenette, Harry E., Duluth, Minn. Wire machine. 1,729,773; Oct. 1.
- Frenier, Albert B., assignor to American Nokol Co., Chicago, Ill. Liquid-fuel-burning apparatus. 1,702,936; Feb. 19.
- Frenier, Albert B., Chicago, Ill., assignor, by mesne assignments, to Petroleum Heat and Power Company, New York, N. Y. Burning liquid fuel in furnaces for heating buildings. 1,738,881; Dec. 10.
- Frenkel, Richard, Berlin-Grunewald, Germany. Sound amplifier. 1,710,572; Apr. 23.
- Frenkel, Richard, Berlin-Grunewald, Germany. Loud-speaker. 1,721,109; July 16.
- Frenne, Nils H. (See Ruths, J., and Frenne.)
- Frenning, Alfred B., Belmont, assignor to The S. M. Howes Company, Boston, Mass. Wood carrier. 1,722,664; July 30.
- Frenz, Harry J., Philadelphia, Pa. Radiocabinet. Des. 77,595; Jan. 29.
- Frérôtte, Auguste, Brussels, Belgium, assignor to Henry Simon Limited, Manchester, England. Scrubbing, brushing, cleaning, and like machines for wheat and other grain. 1,712,299; May 7.
- Freshwater, Elmer. (See Krepps, Charles W., assignor.)
- Freshwater, Elmer. (See Scott, Guy B., assignor.)
- Fresk, Per A., Robertsfors, Sweden. Apparatus for charging cellulose digesters. 1,729,575; Sept. 24.
- Fresno Agricultural Works. (See Spivey, Claude T., assignor.)
- Fretter, Frank B., assignor to The National Refining Company, Cleveland, Ohio. Treating fluid hydrocarbons. 1,707,606; Apr. 2.
- Fretz, John A., Philadelphia, Pa. Attachment plug. 1,727,233; Sept. 3.
- Fretz-Moon Tube Company. (See Moon, John W., assignor.)
- Fretz, William F., Pipersville, and H. F. Kline, Ottsville, Pa. Adjustable waistband for trousers. 1,705,562; Mar. 19.
- Freud, Joseph, assignor to Superior Specialty & Mfg. Co., Chicago, Ill. Cigar lighter. 1,699,058; Jan. 15.
- Freudenreich, William F., et al., trustees. (See Arcy, Fred C., assignor.)
- Freund, Herman R., Brooklyn, assignor to Intertype Corporation, New York, N. Y. Matrix. 1,718,921; June 25.
- Freund, Herman R., Brooklyn, assignor to Intertype Corporation, New York, N. Y. Metal pot for line-casting machines. 1,718,922; June 25.
- Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Matrix-composing stick. 1,740,435; Dec. 17.
- Freund, Robert R., Evansville, Ind. Back support. 1,722,205; July 23.
- Freundlich, Ralph A., Brooklyn, N. Y. Moving eye. 1,718,346; June 25.
- Frey, Elmer E., and J. Griesinger, Los Angeles, Calif.; said Frey assignor to said Griesinger. Laundry appliance. 1,699,059; Jan. 15.
- Frey, Juan, Barcelona, Spain. Gramophone and other sound-reproducing apparatus. 1,699,885; Jan. 22.
- Frey, Karl, Ennetbaden, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Gland for machine shafts. 1,722,135; July 23.
- Frey, Karl, Ennetbaden, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Steam-turbine construction. 1,714,596; May 28.
- Frey, Louis, Fox Lake, assignor, of one-half to D. T. Stone, Chicago, Ill. Stump extractor. 1,715,229; May 28.
- Frey, Otto, Windisch, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Surface condenser. 1,729,309; Sept. 24.
- Frey, Richard, Hongg, Zurich, Switzerland. Lighting plant for vehicles. 1,724,757; Aug. 13.
- Freyer, Bela, Port Chester, N. Y., assignor to American Felt Company, Boston, Mass. Window channel. 1,698,494; Jan. 8.
- Freyman, Fred, La Grange, Ill. Pencil. 1,730,132; Oct. 1.
- Frey Engineering Company. (See Everhard, Edgar P., assignor.)
- Frey Engineering Company. (See Hayes, John C., jr., assignor.)
- Frey Engineering Company. (See Wetherbee, Harry L., assignor.)
- Frey Engineering Company. (See Willcox, Frederick H., assignor.)
- Frey Engineering Company. (See Willcox, F. H., and Hayes, assignors.)
- Freysinger, John B., New Britain, Conn. Buckle. Des. 79,707; Oct. 29.
- Freysinger, John B., New Britain, Conn. Automobile door latch. 1,703,441; Feb. 26.
- Freysinger, John B., New Britain, Conn. Buckle. 1,727,541; Sept. 10.
- Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. Des. 79,708; Oct. 29.
- Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. Des. 79,795; Nov. 5.
- Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. Des. 79,796; Nov. 5.
- Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. Des. 79,797; Nov. 5.
- Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. Des. 79,798; Nov. 5.
- Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. Des. 79,799; Nov. 5.
- Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Garment supporter. 1,702,999; Feb. 19.
- Frick, Chester A. (See Kaye, S., and Frick.)
- Frick, Chester A., assignor to Glascock Brothers Manufacturing Company, Muncie, Ind. Bottle-dispensing cabinet. Des. 79,588; Oct. 15.
- Frick, Chester A., assignor to Glascock Brothers Manufacturing Company, Muncie, Ind. Window latch. 1,698,695; Jan. 8.
- Frick, Chester A., assignor to Glascock Brothers Mfg. Company, Muncie, Ind. Refrigerator. 1,705,756; Mar. 19.
- Frick, Chester A., assignor to Glascock Brothers Mfg. Company, Muncie, Ind. Bottle-cooling box. 1,728,535; Sept. 17.
- Frick Company. (See Buehler, Leon, jr., assignor.)
- Frick Company. (See Good, Daniel F., assignor.)
- Frick Company. (See Small, Normal M., assignor.)
- Frick Company. (See Zumbro, F. R., and Shenton, assignors.)
- Frick, Frederick F. (See Donahue, T. H., and Frick.)
- Frick, Frederick F. (See Laist, F., and Frick.)
- Frick, William, assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Welding apparatus. 1,727,166; Sept. 3.
- Fricke, Leslie W. (See Cherry, Frank L., assignor.)
- Fricke, Anthony, Lakewood, Ohio. Paper binder. 1,696,908; Jan. 1.
- Fricke, Anthony, Lakewood, Ohio. Clasp. 1,702,472; Feb. 19.
- Frickey, Royal E., and W. R. Layne, San Francisco, Calif. Pumping system. 1,736,002; Nov. 19.
- Friderichsen, Peter C. C., Independence, Mo. Tile. 1,716,224; June 4.
- Fridley, William H., Anna, Ohio. Screen. 1,712,659; May 14.
- Fridolph, Annette, assignor to A. B. A. Specialties Company, Inc., New York, N. Y. Fastening means. 1,722,493; July 30.
- Fridolph, John S., assignor to The De-Lite-Us Spring Clasp Corporation, New York, N. Y. Toy aeroplane. 1,712,074; May 7.



- Fridstein, Harry B., Chicago, Ill., and D. F. Priser, North Manchester, Ind. Flow-control valve. 1,727,591; Sept. 10.
- Frie, Lindsay B., and E. G. Bergmann, St. Louis, Mo. Short-circuiting switch. 1,700,836; Feb. 5.
- Fried, Jacob M., Vicksburg, Miss. Fuse block for thermal cut-outs. 1,732,265; Oct. 22.
- Fried, Joseph A., Flushing, assignor to Dubilier Condenser Corporation, New York, N. Y. Condenser. 1,707,959; Apr. 2.
- Fried, Krupp, Aktiengesellschaft. (See Fry, Adolf, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Hagenbucher, Eugen, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Herrmann, Heinrich, assignor.)
- Fried, Krupp, Aktiengesellschaft. (See Himmelsbach, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Houdremont, E., and Ehmcke, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Immand, G., and Janssen, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Jacobs, Werner, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Just, H., and Hort, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Kalisch, Ernst, assignor.)
- Fried, Krupp, Aktiengesellschaft. (See Radermacher, August, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
- Fried, Krupp Germaniawerft. (See Becker, Heinrich, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Louis, Martin, assignor.)
- Fried, Krupp Germaniawerft Aktiengesellschaft. (See Rohwer, Heinrich, assignor.)
- Fried, Krupp Grusonwerk A. G. (See Birnie, Steven, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Fertz, Fritz, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Heine, Hans G., assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Johannsen, Friedrich, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Matzel, Conrad, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Mertz, Fritz, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Pape, Hermann, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Schrott, Kasimir, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Sohler, Karl, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Ullrich, Georg, assignor.)
- Fried, Krupp Grusonwerk Aktiengesellschaft. (See Voegel, August, assignor.)
- Fried-Ostermann Co. (See Ostermann, Albert H., assignor.)
- Friedberg, Leonard, assignor to Paris Cosmetics, Inc., New York, N. Y. Vanity case. Des. 79,421; Sept. 17.
- Friedberger-Aaron Manufacturing Company. (See Aaron, Max N., assignor.)
- Friedberger-Aaron Manufacturing Company. (See Goldsmith, Edwin M., assignor.)
- Friedberger-Aaron Manufacturing Company. (See Goldsmith, Edwin M. and H. F., assignors.)
- Friedberger-Aaron Manufacturing Company. (See Goldsmith, Henry F., assignor.)
- Friede, Oscar C., St. Louis, Mo. Static eliminator. 1,715,414; June 4.
- Friedel, Arthur C., Syracuse, N. Y., assignor, by mesne assignments, to W. W. Varney, Baltimore, Md. Oscillator. 1,703,664; Feb. 26.
- Friedel, Otto B., Obersachsenberg, Germany. Mouth organ. 1,702,538; Feb. 19.
- Friedell, Philip A., Oakland, Calif. Speed-reducing transmission. 1,730,270; Oct. 1.
- Friedemann, Matthew M., New York, N. Y. Fixture. 1,702,937; Feb. 19.
- Friedemann, Matthew M., New York, N. Y. Display shelf and guard therefor. 1,718,738; June 25.
- Friederich, Ernst, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Leading-in wire for glass vessels. 1,734,900; Nov. 5.
- Friedezky, Ernst, assignor to the Firm Rasier-Klingenfabrik "Rivo" Hahn, Richter & Volkmann, Troppau, Czechoslovakia. Device for sharpening pencils. 1,708,128; Apr. 9.
- Friedheim, Leon J., St. Louis, Mo. Fastening device. 1,698,398; Jan. 8.
- Friedl, Hugh J., Buffalo, N. Y. Transmission or brake band. 1,698,475; Jan. 8.
- Friedl, Hugh J., assignor to McKaig-Hatch, Inc., Buffalo, N. Y. Chain pliers. 1,698,474; Jan. 8.
- Friedl, Ralph, Alameda, Calif. Exhaust-valve-cooling system for internal-combustion engines. 1,726,217; Aug. 27.
- Friedlaender, Julius, Gummiwaren-Fabrik G. m. b. H. (See Sandig, Ernst, assignor.)
- Friedland, Solomon B., Indianapolis, Ind. Toothbrush. 1,704,564; Mar. 5.
- Friedley-Voshardt Co. (See Kettering, William T., assignor.)
- Friedley-Voshardt Co. (See Voshardt, Herman F., assignor.)
- Friedli, John T., Seattle, Wash. Registering decelerometer. 1,725,958; Aug. 27.
- Friedman, Arthur, assignor to The Cleveland Heater Company, Cleveland, Ohio. Relief valve. 1,740,420; Dec. 17.
- Friedman, Arthur, assignor to The Cleveland Heater Company, Cleveland, Ohio. Relief valve. 1,740,421; Dec. 17.
- Friedman, Charles S., assignor to Société Anciens Etablissements A. Combe & Fils & Cie., Paris, France. Production of washable printings on leather. 1,716,120; June 4.
- Friedman, Ellis O. (See Bartley, W. A., and Friedman.)
- Friedman, Emery G., Tampico, Mexico. Tank-sealing device. 1,741,104; Dec. 24.
- Friedman, Jacob. (See Scheinfeld, Morris, assignor.)
- Friedman, Joseph, Brooklyn, N. Y. Support for artificial flowers. 1,736,526; Nov. 19.
- Friedman, Joseph, assignor to Sheurman Brothers, Des Moines, Iowa. Cuff for knickers. 1,723,028; Aug. 6.
- Friedman Silver Co. (See Budd, Howard L., assignor.)
- Friedman, William, New York, N. Y. Syringe. 1,719,428; July 2.
- Friedman, William, New York, N. Y. Syringe. 1,733,189; Oct. 29.
- Friedman, William, New York, N. Y. Bag. 1,739,634; Dec. 17.
- Friedman, William E., Brooklyn, N. Y. Banner-display fixture. 1,699,105; Jan. 15.
- Friedmann, Albert, assignor to Textile Machine Works, Wyomissing, Pa. Reversing drive mechanism for textile-pattern chains. 1,712,660; May 14.
- Friedmann, Louis, Vienna, Austria. Steam-heating installation for railway cars. 1,702,431; Feb. 19.
- Friedmann, Louis, Vienna, Austria. Valveless lubricating oil-pumping apparatus. 1,722,136; July 23.
- Friedmann, Louis, Vienna, Austria. Steam injector. 1,726,552; Sept. 3.
- Friedrich Deckel Fabrik für Präzisionsmechanik und Maschinenbau. (See Braren, Lorenz K., assignor.)
- Friedrich, Eli, Brooklyn, N. Y. Rug fringe. Des. 79,230; Aug. 20.
- Friedrich, Ernst, and W. Meyer, assignors to Patent-Freihand-Gesellschaft fuer Elektrische Gluehlampen m. b. H., Berlin, Germany. Current rectifier. 1,741,291; Dec. 31.
- Friedrich, Fritz R. (See Norton, Edith T., assignor.)
- Friedrich, Robert, Philadelphia, Pa. Hosiery. Des. 78,620; May 28.
- Friedrich, Robert, Philadelphia, Pa. Hosiery. Des. 80,027; Dec. 3.
- Friedrichs, Wilhelm, Berlin, Germany. Cash-franking machine. 1,741,927; Dec. 31.
- Friel, Lester D., and F. T. Harding, Minneapolis, Minn. Power-actuated door-operating device. 1,697,272; Jan. 1.
- Frieman, Charles W. (See Malthy, Douglas F., assignor.)
- Friend, Floyd R., Lubbock, Tex. Cotton stripper. 1,716,769; June 11.
- Friend, Floyd R., Lubbock, Tex. Stripper brush for cotton-picker machines. 1,731,717; Oct. 15.
- "Friend" Manufacturing Company. (See Hull, Arthur B., assignor.)
- Friend, Robert O., Chicago, Ill., and E. M. Partridge, Hammond, Ind., assignors, by mesne assignments, to The Permutit Company, New York, N. Y. Base-exchange silicate and preparing the same. 1,720,074; July 9.
- Friend, William J., Norwalk, Ohio. Audio amplification apparatus for various sounds. 1,697,500; Jan. 1.
- Friendly, Herbert M. (See Fisher, F. L., and Friendly.)
- Friendly, Herbert M., Chicago, Ill. Telephone system. 1,709,479; Apr. 16.
- Friendly, Herbert M., Chicago, Ill. Automatic telephone system. 1,711,311; Apr. 30.
- Friendly, Herbert M., Chicago, Ill. Telephone system. 1,726,982; Sept. 3.
- Friendly, Herbert M., Chicago, Ill. Automatic telephone system. 1,726,983; Sept. 3.
- Friendly, Herbert M., Chicago, Ill. Automatic telephone system. 1,734,083; Nov. 5.
- Friendly, Herbert M., Portland, Oreg. Telephone system. 1,714,303; May 21.
- Friendly, Herbert M., Portland, Oreg. Car-position-indicator system. 1,730,002; Oct. 1.
- Frier, James H., jr. (See Fesler, D. F., Davis, and Frier.)
- Fries, Gustave, Thaon, France. Change-speed gear. 1,700,612; Jan. 29.
- Fries, Joens E., Birmingham, Ala. Rolling mill. 1,716,039; June 4.
- Friess, Hans, Berlin-Wilmersdorf, assignor to Askania-Werke A.-G. vormalis Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Cinematographic exposing apparatus. 1,708,087; Apr. 9.
- Frietchen, Harry A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric heating unit. 1,728,752; Sept. 17.
- Frigidaire Corporation. (See Andrews, Frank W., assignor.)
- Frigidaire Corporation. (See Bornhauser, Otto E., assignor.)
- Frigidaire Corporation. (See Claiborne, Sidney, assignor.)



- Frigidaire Corporation. (See Cramer, Robert, assignor.)  
 Frigidaire Corporation. (See Fehr, John R., assignor.)  
 Frigidaire Corporation. (See Hull, Harry B., assignor.)  
 Frigidaire Corporation. (See Hull, H. B., and Warner, assignors.)  
 Frigidaire Corporation. (See King, Jesse G., assignor.)  
 Frigidaire Corporation. (See Kramer, Gustav A., assignor.)  
 Frigidaire Corporation. (See Kunkle, B. D., and Summers, assignors.)  
 Frigidaire Corporation. (See McCuen, Charles L., assignor.)  
 Frigidaire Corporation. (See Mitchell, R. J., and Hawkins, assignors.)  
 Frigidaire Corporation. (See Schwellen, Sylvester M., assignor.)  
 Frigidaire Corporation. (See Stout, Elmer O., assignor.)  
 Frigidaire Corporation. (See Summers, Otto M., assignor.)  
 Frigidaire Corporation. (See Swezey, William F., assignor.)  
 Frigidaire Corporation. (See Troup, George M., assignor.)  
 Frigidaire Corporation. (See Warner, C., and Horlacher, assignors.)  
 Frigidaire Corporation. (See Warner, C., and Hull, assignors.)  
 Frigidaire Corporation. (See Wolverton, Herbert W., assignor.)  
 Frigidaire Corporation. (See Wyatt, De Witt H., assignor.)  
 Friis, Harald T., and A. G. Jensen, Red Bank, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Radio receiving circuit. 1,727,010; Sept. 3.  
 Frink Corporation, The. (See Bartels, Frank, assignor.)  
 Frink Corporation, The. (See Roth, Louis, assignor.)  
 Frink, Robert L., Lancaster, Ohio. Method of and apparatus for annealing glassware. 1,704,502; Mar. 5.  
 Frink, Robert L., Lancaster, Ohio. Heat exchanger and making the same. 1,721,442; July 16.  
 Frink, Robert L., Lancaster, Ohio. Making refractories. 1,736,909; Nov. 26.  
 Frink, Wilbur G. (See Young, J. H., and Frink.)  
 Frisbey, Russell B., Oakland, Calif. Composition of matter. 1,733,341; Oct. 29.  
 Frisbie, Eugene, Hillsdale, Mich. Carburetor construction. 1,719,837; July 9.  
 Frisch, August, Rebstein, St. Gallen, Switzerland. Lubricant and fuel pump. 1,734,721; Nov. 5.  
 Frisch, Bruno. (See Marscheider, K., and Frisch.)  
 Frisch, Martin, St. Louis, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y. Pulverized-fuel-burning furnace. 1,734,669; Nov. 5.  
 Frisch, William F., Pittsfield, Mass., assignor to General Electric Company. Casing for transformers. 1,731,894; Oct. 15.  
 Frischer, Harry, New York, N. Y. Embossing plaiting and the like. 1,699,288; Jan. 15.  
 Frischer, Hermann, Cologne-Lindenthal, Germany. Apparatus for treating solutions. 1,711,638; May 7.  
 Frischer, Hermann, Cologne-Lindenthal, Germany. Producing pure acids. 1,733,152; Oct. 29.  
 Frischer, Moxie L., assignor to Western Boiler Compound and Chemical Company, Kansas City, Mo. Treating water and materials used in connection therewith. 1,722,137; July 23.  
 Frischmuth, Ernst, Siemensstadt, near Berlin, Germany. Combination lock. 1,718,130; June 18.  
 Frischmuth, Ernst, Siemensstadt, near Berlin, Germany. Nut-locking washer. 1,740,852; Dec. 24.  
 Frissell, Nelson E., Gardner, and W. A. Maloy, East Templeton, assignors, by mesne assignments, to Hedstrom-Union Company, Gardner, Mass. Shaped reed article and making it. 1,710,536; Apr. 23.  
 Fristoe, Dewey F., Champaign, Ill. Polishing machine. 1,710,613; Apr. 23.  
 Fritch, Eugene C., Los Angeles, Calif. Pole-climbing-contest game. Des. 77,683; Feb. 12.  
 Fritsch, Rockel A., Mazatlan, Mexico. Attaching clip. 1,720,471; July 9.  
 Fritsch, Rockel A., Mazatlan, Mexico, assignor to J. Lawrie, Chicago, Ill. Fountain pen. 1,733,342; Oct. 29.  
 Fritzsche, John, Merion, Pa. Soap dispenser. 1,736,824; Nov. 26.  
 Fritsche, Rudolf, New York, N. Y. Toning blueprints green. 1,712,428; May 7.  
 Fritton, Edward J., Lockport, N. Y. Pressure-controlling device. 1,714,861; May 28.  
 Fritts, Edwin C., assignor to Eastman Kodak Company, Rochester, N. Y. Duplex camera. 1,730,930; Oct. 8.  
 Fritts, Edwin C., and K. C. D. Hickman, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic projection printer. 1,704,794; Mar. 12.  
 Fritz, Adolph H., Litchfield, and E. J. Pardon, assignors to Union Hardware Company, Torrington, Conn. Skate wheel. 1,739,474; Dec. 10.  
 Fritz, Charles A., et al. (See Cady, John A., assignor.)  
 Fritz, Edward C. (See Hill, Frank A., assignor.)  
 Fritz, Frank H., Luverne, Minn. Humidifier for internal-combustion engines. 1,711,408; Apr. 30.  
 Fritz, Frank J., Oak Park, Ill. Last. 1,703,877; Mar. 5.  
 Fritz, Hans, Innsbruck, Austria, assignor to Mathmah Gesellschaft mit beschränkter Haftung, Wiesbaden, Germany. Building slab, plate, or member. 1,718,131; June 18.  
 Fritz, Le Roy, Menlo, Iowa. Door latch. 1,713,042; May 14.  
 Fritz, Otto A., Melrose, Mass. Window screen. 1,718,132; June 18.  
 Fritzsche, Alfred. (See Brumbaugh, John H., assignor.)  
 Fritzsche, Johannes, Wiener-Neustadt, Austria. Safety fuse and manufacturing the same. 1,702,206; Feb. 12.  
 Fritzsche, Johannes, Wiener-Neustadt, Austria. Safety fuse and manufacturing the same. 1,705,860; Mar. 12.  
 Fritzsche, George H., Brooklyn, N. Y., assignor, by mesne assignments, to American Can Company. Box lining. 1,713,469; May 14.  
 Frizelle, Clifton H., et al., trustees. (See Rightenour, Asa L., assignor.)  
 Frizl, Frank, Chicago, Ill. Paintbrush holder. 1,713,077; May 14.  
 Froberg, Knute A. (See Gydesen, A., Froberg, and Keenan.)  
 Frock, Oscar J., Philadelphia, Pa. Pressure-equalizing brake-applying device. 1,721,213; July 16.  
 Froehle, Charles J., Dayton, Ohio. Potato slicer or the like. 1,741,764; Dec. 31.  
 Froehlich, Charles G., Birmingham, Ala. Wall anchor. 1,729,935; Oct. 1.  
 Froehlich, David, Brooklyn, N. Y. Awning-roller construction. 1,703,000; Feb. 19.  
 Froesch, Charles, Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Gate-plate and controller construction. 1,709,169; Apr. 16.  
 Froesch, Charles, Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Electric motor drive. 1,728,236; Sept. 17.  
 Froesch, Charles, Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Yielding seat support. 1,731,412; Oct. 15.  
 Froesch, Charles, Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Vehicle construction. 1,735,425; Nov. 12.  
 Frohman, Oscar, assignor to Koehring Company, Milwaukee, Wis. Combination boom, bucket, and spout distributing apparatus. 1,697,311; Jan. 1.  
 Frøholm, Gabriel, Aas, Norway. Steering device for skis. 1,723,693; Aug. 6.  
 Frolander, Frank C. (See Czarny, M., and Frolander.)  
 Fromm, George J., San Bruno, Calif. Diamond-edged saw and making the same. 1,712,034; May 7.  
 Frommiller, Edward, Brooklyn, N. Y. Toothbrush holder. 1,713,379; May 14.  
 Front Wheel Control, Inc. (See Moller, Wilhelm, assignor.)  
 Frost, Cyril C. J. (See Crauford, Q. C. A., and Frost.)  
 Frost, Frank S., Oak Park, Ill. Milking apparatus. 1,731,045; Oct. 8.  
 Frost, George W., Milwaukee, Wis. Signal light and making same. 1,729,337; Sept. 24.  
 Frost, George W., Milwaukee, Wis. Switch for systems of automotive safety signaling. 1,737,229; Nov. 26.  
 Frost, Herbert H., Chicago, Ill., assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind. Shock-absorber socket. 1,725,184; Aug. 20.  
 Frost, Herbert H., Chicago, Ill., assignor, by mesne assignments, to Chicago Telephone Supply Company, Elkhart, Ind. Rheostat. 1,730,499; Oct. 8.  
 Frost, Max, et al. (See Stone, Abraham, assignor.)  
 Frost, Meyrl M., Capac, Mich. Production of fiber articles. 1,735,426; Nov. 12.  
 Frost, Meyrl M., Capac, Mich. Production of fiber articles. 1,735,427; Nov. 12.  
 Frost, Meyrl M., Capac, Mich. Production of fiber articles. 1,735,428; Nov. 12.  
 Frost, Meyrl M., Capac, Mich. Production of fiber articles. 1,735,429; Nov. 12.  
 Frost, Meyrl M., Detroit, Mich. Production of fiber articles. 1,726,818; Sept. 3.  
 Frost, Rupert L., Cincinnati, Ohio. Shower or spray bath apparatus. 1,714,218; May 21.  
 Frost, Warren H., Long Beach, assignor to Steellastic Company, Los Angeles, Calif. Supporter. 1,734,371; Nov. 5.  
 Frost, William H., San Jose, Calif. Holder for erasers. 1,711,197; Apr. 30.  
 Frost, William M., Spokane, Wash. Insect trap. 1,730,608; Oct. 8.  
 Frost, William M., Spokane, Wash. Insect electrocutor. 1,730,814; Oct. 8.  
 Froussard, Albert F., St. Louis, Mo. Pump. 1,711,312; Apr. 30.  
 Froussard, Albert F., St. Louis, Mo. Clutch mechanism for presses. 1,721,902; July 23.  
 Frova, Giovanni, Milan, Italy. Fruit-pitting and peduncle-removing machine. 1,698,476; Jan. 8.  
 Frova, Giovanni, Milan, Italy. Fruit-pitting machine. 1,698,477; Jan. 8.  
 Fruchey, Donald R., Napoleon, Ohio. Light diffuser for headlights. 1,714,304; May 21.  
 Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)  
 Früh, Peter, and K. Braun, Gauting, near Munich, Germany; said Braun assignor to said Früh. Spool for loom and other textile machines. 1,740,502; Dec. 24.  
 Frumveller, Joseph. (See Keeler, B. A., and Frumveller.)  
 Fruwirth, Arthur, Brooklyn, N. Y. Producing designs for reproduction. 1,725,395; Aug. 20.



- Fry, Adolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Treating low-carbon steel and the like. 1,700,674; Jan. 29.
- Fry, Adolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Manufacturing articles for which a resistibility against the noxious effect of the aged state is required. 1,729,378; Sept. 24.
- Fry, Adolf, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Steel alloy. 1,735,744; Nov. 12.
- Fry, Adolf, Essen, Germany, assignor, by mesne assignments, to The Nitralloy Corporation. Hardening metal articles by nitrogenization. 1,737,711; Dec. 3.
- Fry, Benjamin L., St. Louis, Mo. Coin detector. 1,732,509; Oct. 22.
- Fry, Donald H., Los Angeles, Calif. Device for forming ice cubes. 1,740,503; Dec. 24.
- Fry, Frank B., Newark, N. J., assignor to The H. A. Wilson Company. Composite precious-metal stock. 1,704,126; Mar. 5.
- Fry, Jacob R., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 1,722,045; July 23.
- Fry, Margaret S. (See Fry, Walter L., assignor.)
- Fry, Perry C. (See Steel, W. S., and Fry.)
- Fry, Quincy L., Kansas City, Mo. Subheadlight lighting system. 1,716,546; June 11.
- Fry, Walter L., assignor to M. S. Fry, Scarsdale, N. Y. Seat cover and support. 1,704,703; Mar. 12.
- Fry, Walter L., New York, N. Y. Device for supporting and inclosing ink bottles. 1,707,790; Apr. 2.
- Fry, Walter L., New York, N. Y. Brake-locking device. 1,738,769; Dec. 10.
- Fry, William H., Kansas City, Mo. Gas heater. 1,701,203; Feb. 5.
- Fry, William W., Los Angeles, Calif., assignor of one-half to Robinson Packer Company, Tulsa, Okla. Fishing tool. 1,726,218; Aug. 27.
- Fry, William W., Los Angeles, Calif., assignor of one-half to Robinson Packer Company, Tulsa, Okla. Packer head. 1,726,292; Aug. 27.
- Frye, Ezra H., trustee. (See Lavoie, Joseph, assignor.)
- Frye, Lawrence B., Atlanta, Ga., assignor to N. Derzis, trustee, Birmingham, Ala. Nursing bottle. 1,702,233; Feb. 12.
- Frye, Richard T., Blauvelt, N. Y. Toilet-fixture support. 1,706,285; Mar. 19.
- Frye, Richard T., Blauvelt, N. Y. Pipe cutter. 1,732,160; Oct. 15.
- Frye, Robert L., Dunbar, Pa. Rail joint. 1,702,045; Feb. 12.
- Frye, Robert P., Marlboro, Mass. Inner sole. 1,726,019; Aug. 27.
- Frye, Robert P., Marlboro, Mass. Paper-box-making machine. 1,733,255; Oct. 29.
- Fryer, Al, Chicago, assignor to W. Grimshaw, Glen Ellyn, Ill. Accelerator valve for sprinkler systems. 1,712,262; May 7.
- Fryer, Edward R., Kenmore, N. Y. Combined fender and lamp casing for vehicles. Des. 80,171; Dec. 24.
- Frykman, Malcolm B., Minneapolis, Minn. Attachment for overshoes. 1,712,035; May 7.
- Frykman, Victor L. (See Lucarelle, J. M., and Frykman.)
- Frykman, Victor L., assignor to Dictaphone Corporation, Bridgeport, Conn. Record-resurfacing machine. 1,740,425; Dec. 17.
- Fuchs, Alfred L., Glendale, N. Y. Direction indicator. 1,712,661; May 14.
- Fuchs, Alois, Mor-Ostrava, Czechoslovakia. Sheet-metal radiator. 1,714,771; May 28.
- Fuchs, August, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Annealing furnace. 1,699,784; Jan. 22.
- Fuchs, August, Berlin-Siemensstadt, F. Hanff, Berlin-Charlottenburg, and G. Lanz, Berlin-Lichterfelde, assignors to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Supporting element for hollow electric conductors and apparatus for manufacturing the same. 1,720,213; July 9.
- Fuchs, Franz, Baden, Germany. Work-holding chuck. 1,732,840; Oct. 22.
- Fuchs, Henry, assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,720,173; July 9.
- Fuchs, Henry, assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,737,582; Dec. 3.
- Fuchs, Sigismund, Höchst-on-the-Main, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Producing a preparation for softening and oiling textile fibers. 1,728,118; Sept. 10.
- Fuel Development Corporation. (See Hammond, Grant, assignor.)
- Fuel Efficiency Engineering Corporation. (See Pettibone, Walter W., assignor.)
- Fuel Savers, Incorporated. (See Wilson, Hurley H., assignor.)
- Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. Removable objective mount for photographic cameras. 1,736,436; Nov. 19.
- Fuessler, Edward P., Buffalo, N. Y. Combined finish molding and price-card holder for store shelves. 1,726,146; Aug. 27.
- Fuhr, Julius. (See De Letto, F., and Fuhr.)
- Fuhr, Karl, Bielefeld, Germany. Manufacturing resonance bodies especially for musical instruments. 1,705,153; Mar. 12.
- Fuhrman, Herman C., Marion, Iowa. Valve-seating tool. 1,715,546; June 4.
- Fukuhara, Junkichi, Kobe, Japan. Fuel injector for internal-combustion engines. 1,702,339; Feb. 19.
- Fulcher, Gordon S., assignor to Corning Glass Works, Corning, N. Y. Making solid cast refractory articles. 1,700,288; Jan. 29.
- Fuld, William A., Baltimore, Md. Figure wheeled toy. 1,699,138; Jan. 15.
- Fuld, William A., Baltimore, Md. Toy. 1,699,139; Jan. 15.
- Fulenwider, Harry. (See Fulenwider, James and H., Robinson, and Norris.)
- Fulenwider, Harry. (See Fulenwider, Jesse and H., Robinson, and Norris.)
- Fulenwider, Harry, et al. (See Fulenwider, Jesse and H., Robinson, and Norris, assignors.)
- Fulenwider, Jesse and H., E. W. Robinson, and H. Norris, Savannah, Ga., assignors to said Jesse Fulenwider and said H. Fulenwider. Brick-siding machine. 1,698,434; Jan. 8.
- Fulenwider, Jesse and H., E. W. Robinson, and H. Norris, assignors to H. and J. Fulenwider, Savannah, Ga. Ridge-cap-forming machine. 1,730,361; Oct. 8.
- Fulenwider, Jesse, H. Fulenwider, E. W. Robinson, and H. S. Norris, Savannah, Ga., assignors to said Jesse Fulenwider and said Harry Fulenwider. Lock-roofing forming machine. 1,742,031; Dec. 31.
- Fulford Mfg. Co. (See Saccoccia, Nicolas, assignor.)
- Fulford Mfg. Co. (See Starr, Everett L., assignor.)
- Fulghum, Claud L., et al. (See Zoller, A. E., and Fulghum.)
- Fulgora, Fred, McCandless Township, Allegheny County, Pa. Mechanical game device. 1,708,472; Apr. 9.
- Fulk, Hal R., Mulvane, Kans. Grease gun. 1,714,163; May 21.
- Fulk, John A., and L. J. McCormick, Bluffton, Ind. Rotary hoe attachment for corn cultivators. 1,719,292; July 2.
- Fulkerson, Nettie R., Fallon, Nev. Cake pan. Re17,320; June 4.
- Full Expansion Motors Corporation. (See Hetlesater, Olaf, assignor.)
- Fullenlove, McClellan C., Toledo, Ohio, assignor to Foto-Graf-Is Co. of America, Inc., Montclair, N. J. Combined motion picture photographic and projection apparatus. 1,714,862; May 28.
- Fuller, Alexander F., et al. (See Cummings, Charles D., assignor.)
- Fuller, Alice M., Kansas City, Mo. Iron stand. 1,736,650; Nov. 19.
- Fuller Brush Company, The. (See Avis, Samuel W., assignor.)
- Fuller Brush Company, The. (See Cave, H., and Rudolph, assignors.)
- Fuller Brush Company, The. (See Cave, H., Manning, and Sargent, assignors.)
- Fuller Brush Company, The. (See Fitzgerald, Horace H., assignor.)
- Fuller Brush Company, The. (See Hines, William J., assignor.)
- Fuller Brush Company, The. (See Smith, Curtiss F., assignor.)
- Fuller Brush Company, The. (See Van Veen, Anton, assignor.)
- Fuller Brush Company, The. (See Van Veen, A., and Matteson, assignors.)
- Fuller, Charles E., Jr. (See Pratte, Charles A., assignor.)
- Fuller, Charles H., Attleboro, Mass. Ornamental hollow metal ball. 1,728,600; Sept. 17.
- Fuller, Claud E. (See Penfield, R. C., and Fuller.)
- Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Portable kiln platting. 1,716,341; June 4.
- Fuller, Claud E., New York, N. Y., assignor to The American Equipment Company, Chicago, Ill. Pallet squaring and aligning device. 1,733,221; Oct. 29.
- Fuller, Claud E., New York, N. Y., assignor to New York Brick Handling Corporation, New York, N. Y. Receiving station. 1,738,569; Dec. 10.
- Fuller, Emil E., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttle. 1,726,553; Sept. 3.
- Fuller, Frederic B. (See Smith, E. L., and Fuller.)
- Fuller, Frederick L., Bridgeport, Conn., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Calculating mechanism. 1,700,355; Jan. 29.
- Fuller, Frederick L., Bridgeport, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Cash register. 1,729,338; Sept. 24.
- Fuller, Frederick L., Ilion, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,715,910; June 4.
- Fuller, Frederick L., Ilion, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,725,859; Aug. 27.
- Fuller, Frederick L., Ilion, N. Y., and W. H. Robertson, assignors to The National Cash Register Company, Dayton, Ohio. Cash register. 1,699,060; Jan. 15.
- Fuller, George B., Arkona, Ontario, Canada, assignor to Westinghouse Electric & Manufacturing Company. Shunt blowout device. 1,722,046; July 23.
- Fuller, George L., Miami, Fla. Door holder. 1,704,967; Mar. 12.



- Fuller, George P., La Salle, N. Y., assignor, by mesne assignments, to E. Michael, F. R. Collins, and F. J. Tone, constituting Bondholders' Protective Committee of Electrolytic Holding Company, Inc. Pump for corrosive liquids. 1,698,495; Jan. 8.
- Fuller, Harry M., Salt Lake City, Utah. Spark plug. 1,729,576; Sept. 24.
- Fuller, James T., Dallas, Tex. Combination heating and cooking stove. 1,720,725; July 16.
- Fuller Lehigh Company. (See Bailey, Ervin G., assignor.)
- Fuller Lehigh Company. (See Collins, Harry R., assignor.)
- Fuller Lehigh Company. (See Haniman, Charles J., assignor.)
- Fuller Lehigh Company. (See Hardgrove, Ralph M., assignor.)
- Fuller Lehigh Company. (See Harter, Isaac, assignor.)
- Fuller Lehigh Company. (See Jacobus, D. S., and Lewis, assignors.)
- Fuller Lehigh Company. (See Jacobus, David S., assignor.)
- Fuller-Lehigh Company. (See Jones, Michael D., assignor.)
- Fuller Lehigh Company. (See Kaemmerling, Gustav H., assignor.)
- Fuller Lehigh Company. (See Taylor, James H., assignor.)
- Fuller Lehigh Company. (See Ward, George P., assignor.)
- Fuller, Leo E., et al. (See Cummings, Charles D., assignor.)
- Fuller, Perley H., Auburn, Me., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricant-exPELLing cup. 1,737,838; Dec. 3.
- Fullerton, Albert L., Boston, Mass. Rotary pump and the like. 1,702,046; Feb. 12.
- Fullerton, George W., Cincinnati, Ohio. Container. 1,713,043; May 14.
- Fullerton, Ernest M., Stoughton, Mass. Last pin. 1,720,269; July 9.
- Fullerton, Henry J. (See Kleeb, O. F., and Fullerton.)
- Fullerton, John J., North Bergen, N. J., assignors to Fullerton Trucking Company, New York, N. Y. Crate for handling hollow tile or the like. 1,733,728; Oct. 29.
- Fullerton Trucking Company. (See Fullerton, John J., assignor.)
- Fulpius, Edmond, Geneva, Switzerland, assignor of one-half to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Thrust bearing. 1,735,315; Nov. 12.
- Fulton Iron Works Company. (See Struebig, Louis J., assignor.)
- Fulton, John S. S., Marion, Ind. Hopper feed for furnaces. 1,706,286; Mar. 19.
- Fulton, John S. S., Marion, Ind. Mechanical stoker. 1,706,287; Mar. 19.
- Fulton, Luther D., Titusville, Pa., assignor of one-half to H. S. Bell, New York, N. Y. Look box. 1,722,740; July 30.
- Fulton, Nell, New York, N. Y. Comb cleaner. 1,736,782; Nov. 26.
- Fulton, Nell, New York, N. Y. Wave preserver. 1,707,392; Apr. 2.
- Fulton Sylphon Company, The. (See Bezzenberger, Fred K., assignor.)
- Fulton Sylphon Company, The. (See Carson, William W., Jr., assignor.)
- Fulton Sylphon Company, The. (See Fulton, Weston M., assignor.)
- Fulton Sylphon Company, The. (See Fulton, W. M., and Giesler, assignors.)
- Fulton Sylphon Company, The. (See Giesler, Jean V., assignor.)
- Fulton Sylphon Company, The. (See Reeder, Frank C., assignor.)
- Fulton Sylphon Company, The. (See Wadsworth, Frank L. O., assignor.)
- Fulton, Weston M., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Extruded tubular wall and making same. 1,709,011; Apr. 16.
- Fulton, Weston M., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Making flexible corrugated tubular walls. 1,727,281; Sept. 3.
- Fulton, Weston M., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Flexible corrugated tubular wall and method for making the same. 1,731,130; Oct. 8.
- Fulton, Weston M., and J. V. Giesler, assignors, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Method and apparatus for making flexible tubular walls. 1,702,047; Feb. 12.
- Fulton, William B., Middletown, Ohio. Liquid-level regulator or the like. 1,733,659; Oct. 29.
- Fultz, Utah F., Dallas, Tex. Poster sign. Des. 80,028; Dec. 3.
- Fulweiler, Walter H., Wallingford, assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Purifying gases. 1,700,698; Jan. 29.
- Funk, Carl, Cologne-on-the-Rhine, Germany. Device for investigating and ascertaining the digestive action of the stomach and the changes of its contents. 1,734,084; Nov. 5.
- Funderburk, Perry. (See Kubin, V. J., and Funderburk.)
- Fundingsland, Lauritz O., Burlington, Colo. Governor attachment for tractors. 1,713,470; May 14.
- Funk, Arthur S. (See Bott, E. S., and Funk.)
- Funk, Carlyle B., Chicago, Ill. Power-transmission means. 1,698,399; Jan. 8.
- Funk, Charles J., Chicago, Ill., assignor, by mesne assignments, to The Tefra Co., Wilmington, Del. Toothbrush. 1,698,128; Jan. 8.
- Funk, Charles J., assignor to The Wahl Company, Chicago, Ill. Assembling nibs and feed members for fountain pens. 1,735,199; Nov. 12.
- Funk, George E. (See O'Brian, B. J., and Funk.)
- Funk, John G., Cleveland, Ohio. Kitchen rod. 1,697,974; Jan. 8.
- Funk, John G., Cleveland, Ohio. Kitchen-utensil lifter. 1,725,512; Aug. 20.
- Funk, Levi L., Chicago, Ill. Cap for receptacles. 1,722,461; July 30.
- Funk, Nelson E., Montclair, N. J. Friction-clutch feeding means for printing presses and the like. 1,718,225; June 25.
- Funk, Robert V. (See Schmitt, William H., assignor.)
- Funk, Truman B., assignor to Automotive Fan & Bearing Company, Jackson, Mich. Self-lubricating bearing. 1,712,263; May 7.
- Funk, Truman B., assignor to Automotive Fan & Bearing Company, Jackson, Mich. Combined internal-combustion-engine fan and water-circulation pump. 1,728,486; Sept. 17.
- Funke, Albert. (See Bauer, W., Herre, and Funke.)
- Funke, Konrad. (See Zinke, A., and Funke.)
- Funke, Philip K., Alameda, Calif. Candle. 1,701,844; Feb. 12.
- Funnell, Harry M., New Market, N. J. Universal joint. 1,737,535; Nov. 26.
- Funston, Edmund B., Racine, Wis., assignor to G. W. Funston, Champaign, Ill. Water-delivery device. 1,722,960; July 30.
- Funston, Frederick D., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,720,951; July 16.
- Funston, George W. (See Funston, Edmund B., assignor.)
- Funtan, Charles L., Paterson, N. J. Light-print (blue-print) machine. 1,740,293; Dec. 17.
- Fuqua, Clarence V., assignor to The Cleaners Equipment Corporation, Kansas City, Mo. Master trap. 1,705,009; Mar. 12.
- Fuqua, Clarence V., assignor to The Cleaners Equipment Corporation, Kansas City, Mo. Clarifier. 1,741,187; Dec. 31.
- Furan, Lars L., Thief River Falls, Minn. Turning signal. 1,731,619; Oct. 15.
- Furber, Frederick M., Beachmont, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stock-treating machine. 1,701,845; Feb. 12.
- Furber, Frederick M., deceased; S. R. Cutler, administrator, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiing machine. 1,706,485; Mar. 26.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for repairing patent leathers. 1,704,827; Mar. 12.
- Furber, Frederick M., deceased, by S. R. Cutler, administrator, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving and controlling mechanism. 1,735,893; Nov. 19.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, Ill. Softening apparatus. 1,711,592; May 7.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work support. 1,738,570; Dec. 10.
- Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Granitville, Mass. Feed-regulating device. 1,702,432; Feb. 19.
- Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Granitville, Mass. Yarn-conditioning machine. 1,713,429; May 14.
- Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Granitville, Mass. Beater for agitating stock. 1,733,456; Oct. 29.
- Furcolo, Ciriachino, assignor of one-half to G. Piscirillo, Philadelphia, Pa. Invisible rubber or attachment for soles. 1,701,406; Feb. 5.
- Furgason, Claude E., assignor to Reo Motor Car Company, Lansing, Mich. Spark-advancing mechanism. 1,698,089; Jan. 8.
- Furiati, Biagio A. (See Hunt, John O., assignor.)
- Furjanick, Nick L., Virginia, Minn. Nonglare shield. 1,729,936; Oct. 1.
- Furlong, James J. (See Kuhn, A. R., and Furlong.)
- Furlong, Walter G., and K. H. Crumrine, assignors to The National Acme Company, Cleveland, Ohio. Threading die. 1,732,358; Oct. 22.
- Furman, Isaac W., Center Moriches, N. Y. Dancing toy. 1,713,430; May 14.
- Furman, John. (See Pucek, Felix, assignor.)
- Furman, Thomas H., Rialto, Calif. Rope holder. 1,719,656; July 2.
- Furmanik, Giuseppe, assignor to G. A. Calabi, Rome, Italy. Parachute. 1,703,001; Feb. 19.
- Furnace Engineering Company. (See Coutant, Jay G., assignor.)
- Furnaro, Peter B., Ossining, N. Y. Striping device. 1,730,271; Oct. 1.
- Furnas, William C., and E. C. Rusch, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sheet insulation. 1,730,568; Oct. 8.
- Furness, Radclyffe, Jenkintown, Pa. Ingot mold. 1,717,504; June 18.



- Furness, Radclyffe, Jenkintown, Pa. Ingot mold. 1,738,882; Dec. 10.
- Furnivall, William H. G., D. B. McLaren, and E. J. Laschinger, Johannesburg, South Africa. Fluid meter. 1,712,760; May 14.
- Furnivall, William H. G., D. B. McLaren, and E. J. Laschinger, Johannesburg, South Africa. Fluid meter. 1,712,761; May 14.
- Furnivall, William H. G., D. B. McLaren, and E. J. Laschinger, Johannesburg, Transvaal, South Africa. Exhaust silencer. 1,721,385; July 16.
- Furrer, Albert, Zurich, Switzerland. Tire rim. 1,710,614; Apr. 23.
- Furry, Elvin B., and F. M. Cowgill, Columbus, Ohio. Mechanical connector. 1,723,847; Aug. 6.
- Furst, Marie, Long Island City, N. Y. Combination shield. 1,730,762; Oct. 8.
- Furst, Oscar E., Detroit, Mich. Multiple-socket wrench. 1,713,527; May 21.
- Furstenburg, James R., Cumberland, Md. Beading tool for boiler flues. 1,737,583; Dec. 3.
- Furumizo, Genjiro, Honolulu, Hawaii. Water-heating oil stove. 1,712,429; May 7.
- Furuta, Frank T., Sacramento, Calif. Indicator. 1,722,906; July 30.
- Fusch, Otis O., and P. Hammer, Bellflower, Calif. Cylinder drain valve. 1,706,920; Mar. 26.
- Fusch, Otis O., Bellflower, Calif. Power-operated musical instrument. 1,707,057; Mar. 26.
- Fusion Welding Corporation. (See Holt, Robert W., assignor.)
- Futamata, Kenda, San Francisco, Calif. Automobile directional signal. 1,708,218; Apr. 9.
- Fyfe, Albert E., Brooklyn, N. Y. Crate-cover clamp. 1,697,178; Jan. 17.
- Fynd Products Company. (See Davis, Ray H., assignor.)
- Fynn, Valere A., St. Louis, Mo. Synchronous motor. 1,704,828; Mar. 12.
- Fynn, Valere A., deceased, St. Louis, Mo.; Franklin-American Trust Company, administrator. Operating alternating-current motors. 1,731,238; Oct. 15.
- Fynn, Valere A., deceased, St. Louis, Mo.; Franklin American Trust Company, administrator. Dynamo-electric machine. 1,732,598; Oct. 22.
- Fynn, Valere A., deceased, St. Louis, Mo.; Franklin-American Trust Company, administrator. Dynamo-electric machine. 1,737,009; Nov. 26.
- Fyre Freez Corporation. (See McLaren, Malcolm W., assignor.)
- G & G Atlas Systems, Inc. (See Dinspel, William H., assignor.)
- G. & G. Atlas Systems, Inc. (See Weigele, Edmund, assignor.)
- G. M. Co. Manufacturing Company. (See Iskyan, George S., assignor.)
- G. & O. Manufacturing Company, The. (See Curello, John J., assignor.)
- G and O Manufacturing Company, The. (See Scharff, Adrian C., assignor.)
- G. & J. Weir, Limited. (See Sim, James, assignor.)
- G. & W. Electric Specialty Co. (See Williams, Paul F., assignor.)
- Gaarz, Wilhelm, and J. Sorge, Berlin-Charlottenburg, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Quick-responding leakage relay. 1,735,002; Nov. 12.
- Gabbert, Kenneth E. (See Aldrich, M. J., Seitz, and Gabbert.)
- Gable, C. P., et al. (See Butterworth, Samuel D., assignor.)
- Gable, Frank R., Wheaton, Ill. Portable shelter. 1,734,803; Nov. 5.
- Gable, George P. (See De Bracht, Joe, assignor.)
- Gable, James L., Marion, Ind. Card index. 1,722,138; July 23.
- Gable, Robert B. (See de Bracht, Joseph, assignor.)
- Gabriel, John C., assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency-indicating system. 1,722,084; July 23.
- Gabriel, John C., and G. M. Thurston, assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical condenser. 1,722,083; July 23.
- Gabriel, Joseph A., Cleveland, Ohio. Bell-operating mechanism. 1,700,289; Jan. 29.
- Gabriel, Philip E., assignor, by mesne assignments, to Bohn Aluminum & Brass Corporation, Detroit, Mich. Radiator-cap construction. 1,714,772; May 28.
- Gabriel Steel Company. (See Zabriskie, William F., assignor.)
- Gabrielsson, Carl, assignor to L. C. Smith & Corona Type-writers Inc., Syracuse, N. Y. Card platen for typewriters. 1,702,824; Feb. 19.
- Gabrielsson, Carl, assignor to L. C. Smith & Corona Type-writers Inc., Syracuse, N. Y. Key-set tabulator for typewriting machines. 1,737,306; Nov. 26.
- Gabrielsson, John B., Stockholm, Sweden. Air-cooling system for internal-combustion engines. 1,715,749; June 4.
- Gabutti, Ugo, Turin, Italy. Automatic delivery apparatus. 1,702,157; Feb. 12.
- Gaby, Walter E., Los Angeles, Calif. Humidity regulator. 1,725,071; Aug. 20.
- Gaco Corporation. (See Walters, Philip N., assignor.)
- Gadbois, Paul, St. Paul, Minn. Invalid bed. 1,698,754; Jan. 15.
- Gade, Einar K., New York, N. Y. Toothbrush. 1,719,426; July 2.
- Gadegast, Hermann, Tempelhof, near Berlin, assignor to Allgemeine Elektrizitäts-Gesellschaft, Berlin, Germany. Indicating dial. 1,740,941; Dec. 24.
- Gadeke, Franz. (See Henning, W., and Gadeke.)
- Gadsden, Norman C. (See Gadsden, Stanley W. and N. C., and Topham.)
- Gadsden, Stanley W. and N. C., West Melbourne, and C. H. Topham, Sydney, Australia. Combined closure and decanting device for liquid containers. 1,712,203; May 7.
- Gaertner Scientific Corporation, The. (See Gaertner, William, assignor.)
- Gaertner, William, assignor to The Gaertner Scientific Corporation, Chicago, Ill. Indicator. 1,715,030; May 28.
- Gaffner, Charles H., Seattle, Wash. Separable coupling for ropes. 1,703,579; Feb. 26.
- Gaffner, Charles H., and E. L. Jones, Seattle, Wash. Door for multiple mail receptacles. 1,719,541; July 2.
- Gafney, James, New York, N. Y. Package rack for group mail boxes. 1,741,928; Dec. 31.
- Gage, Charles H., assignor to Charles W. Young & Co., Philadelphia, Pa. Soap dispenser. Des. 77,402; Jan. 8.
- Gage, Charles H., and A. E. Searles, Washington, D. C., assignors to L. W. Searles, Chevy Chase, Md., W. D. Riter, Washington, D. C., and W. A. Faison, Chester, Pa., trustees of Automatic Car Coupler Trust. Railway gate. 1,709,344; Apr. 16.
- Gage, Edward G., Brooklyn, assignor to Radio Corporation of America, New York, N. Y. Separating desired from undesired electric currents. Re17,360; July 2.
- Gage, Edward G., Brooklyn, N. Y., assignor of one-half to L. Q. Slocumb, Ferguson, Mo., and one-half to Radio Corporation of America. Radio apparatus. 1,708,538; Apr. 9.
- Gage, George A., Tulsa, Okla. Self-cleaning cup ring. 1,714,164; May 21.
- Gage, George W., Parnassus, Pa. Drilling machine with sectional crank. 1,700,039; Jan. 22.
- Gage, Victor R., Ithaca, N. Y. Carburetor. 1,722,462; July 30.
- Gagliardi, Antonio. (See Mason, F. L., and Gagliardi.)
- Gagnier, George E. (See Place, Bion C., assignor.)
- Gagnon, Joseph H., Montreal, Quebec, Canada. Toy. 1,726,554; Sept. 3.
- Gagnon, Leo O., Newark, N. J., assignor to Continental Optical Corporation, New York, N. Y. Zylonite spectacle frame. 1,713,120; May 14.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Contact of the pin type. 1,702,158; Feb. 12.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Attachment for ball chains. 1,716,267; June 4.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Chain coupling. 1,720,472; July 9.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Suspension means. 1,721,338; July 16.
- Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Chain-making machine. 1,724,796; Aug. 13.
- Gahagan, Charles E., Pittsburgh, Pa. Blade holder. 1,738,365; Dec. 3.
- Gahlert, Franz J., and M. Bretschneider, Barenstein, Germany. Automatic embroidering machine. 1,707,263; Apr. 2.
- Gaidies, Georg. (See Skaupy, F., Nachod, and Gaidies.)
- Gail, Charles H., assignor to Los Angeles Spring Bed Company, Los Angeles, Calif. Bed spring. 1,726,061; Aug. 27.
- Gail, George W. (See Kusel, A. J., and Gail.)
- Gail, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Metal-printing machine. 1,702,769; Feb. 19.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Mattress-side-stitching machine. 1,706,025; Mar. 19.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Spring mattress and like structure. 1,717,378; June 18.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Machine for sewing pockets. 1,720,058; July 16.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Stitch-controlled stitching machine. 1,731,001; Oct. 8.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Wireworking mechanism. 1,733,660; Oct. 29.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Thread-controlled stopping device for sewing machines. 1,738,142; Dec. 3.
- Gaines, Benjamin F., Charlotte, N. C. Thermostatic control for heating systems. 1,698,191; Jan. 8.
- Gaines, Benjamin F., Gainesville, Fla. Pressure reducing and regulating valve. 1,711,999; May 7.
- Gains, Chester R., Muscatine, Iowa. Clock case. Des. 79,916; Nov. 12.
- Gair, Robert, Company. (See Andrews, James M., assignor.)
- Gair, Robert, Company. (See Tinsley, Edward O., assignor.)



- Gair, Robert, Company. (See Towell, Oscar J., assignor.)  
 Gaire, Joseph L., Paterson, N. J. Hair-waving device. 1,718,183; June 18.  
 Gaire, Paul E., New York, N. Y. Hair-treating apparatus. 1,726,616; Sept. 3.  
 Gaiser, William P., Wichita, Kans. Door structure. 1,729,825; Oct. 1.  
 Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Safety razor. 1,709,070; Apr. 16.  
 Gaisman, Henry J., New York, and C. Schumacher, Lynbrook, N. Y., assignors to Autostrop Patents Corporation, Dover, Del. Metal-sharpening machine. 1,699,510; Jan. 15.  
 Gaisman, Henry J., New York, and C. Schumacher, Lynbrook, N. Y., assignors to Autostrop Patents Corporation, Dover, Del. Safety razor. 1,712,452; May 7.  
 Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Safety razor. 1,727,167; Sept. 3.  
 Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Safety razor. 1,728,728; Sept. 17.  
 Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Safety razor. 1,728,729; Sept. 17.  
 Galambos, John, Cleveland, Ohio. Sash holder. 1,700,159; Jan. 29.  
 Galante, Ermanno, Woburn, Mass. Hide-stretching device. 1,719,882; July 9.  
 Galassi, Pasquale, New York, N. Y. Interlocking floor strip. 1,697,683; Jan. 1.  
 Galassi, Pasquale, New York, N. Y. Dividing strip. 1,715,193; May 28.  
 Galassi, Pasquale, New York, N. Y. Composite flooring strip. 1,718,041; June 18.  
 Galassi, Pasquale, New York, N. Y. Insert for floorings and pavements. 1,722,139; July 23.  
 Galasso, Pietro, Meta di Sorrento, assignor to Società Italiana "Vop," Naples, Italy. Means and device to vaporize heavy liquid fuel for use as driving power in gas engines generally. 1,724,273; Aug. 13.  
 Gaibardini, Antonio, Milan, Italy. Signaling apparatus for automobiles and the like. 1,724,187; Aug. 13.  
 Galbraith, Arthur, Ash Grove, Mo. Chin support. 1,740,340; Dec. 17.  
 Galbraith, John, Minneapolis, Minn. Carving machine. 1,721,015; July 16.  
 Galbraith, Joseph B., Kaysville, Utah. Chuck for lathes and pipe-working machines. 1,720,829; July 16.  
 Gale, Ernest L., Jr., Yonkers, N. Y., assignor to Gurney Elevator Company, Inc. Leveling car-switch mechanism for elevators. 1,717,505; June 18.  
 Gale, Louis, Cleveland, Ohio. Combination chemise and bloomers. 1,711,198; Apr. 30.  
 Gale, Walter G., Caversham, near Reading, assignor to R. I. Denham, London, England. Loud-speaker. 1,716,772; June 11.  
 Gale, William A. (See Ritchie, C. F., and Gale.)  
 Gale, William A., and Charles F. Ritchie, Trona, Calif., assignors, by mesne assignments, to American Potash & Chemical Corporation, New York, N. Y. Refining borates. 1,732,806; Oct. 22.  
 Gale, William E., Dallas, Tex. Airplane take-off. 1,704,968; Mar. 12.  
 Galena-Signal Oil Company, of Texas. (See Heisig, Theodore C., assignor.)  
 Galgan, Paul A. (See Pilat, F. J., and Galgan.)  
 Gallion Iron Works & Mfg. Co., The. (See Arndt, Franklin E., assignor.)  
 Gallion Iron Works & Mfg. Co., The. (See Macy, Ishmael W., assignor.)  
 Gallion Metallic Vault Company. (See Smith, Ralph E., assignor.)  
 Gallart, Theofil. (See Schilling, A., Sachse, Lliamin, and Callaert.)  
 Gallagher, Arthur D., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Lister cultivator. 1,735,568; Nov. 12.  
 Gallagher, Charles R., assignor, by mesne assignments, to Consolidated Steel Corporation, Los Angeles, Calif. Distributing fire-quenching foam on floating decks. 1,714,015; May 21.  
 Gallagher, David M., Ansonia, assignor to The Bassett Metal Goods Company, Inc., Derby, Conn. Lift catch. 1,707,000; Mar. 26.  
 Gallagher, Dennis J., Brooklyn, N. Y. Fastener for windows, doors, and the like. 1,698,541; Jan. 8.  
 Gallagher, George F., assignor to Krem-Ko Company, Chicago, Ill. Bottle or similar article. Des. 79,924; Nov. 19.  
 Gallagher, George F., assignor to Krem-Ko Company, Chicago, Ill. Bottle or similar article. Des. 79,925; Nov. 19.  
 Gallagher, John W., Seneca Falls, N. Y. Relief valve. 1,712,791; May 14.  
 Gallagher, Walter J., N. E. Wolf, and W. F. Wolf, assignors to Premier Sport Products, Inc., New York, N. Y. Game package. 1,734,425; Nov. 5.  
 Gallaber, Andrew J., St. Louis, Mo. Boiler. 1,717,350; June 11.  
 Gallasch, George B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Drill gauge. 1,727,875; Sept. 10.  
 Galle, Gustave, Lawrence, Mass. Shuttle check. 1,707,851; Apr. 2.  
 Gallens, Aaron, et al. (See Bunin, Ellis, assignor.)  
 Gallerani, Alexander, Pittsburgh, Pa. Drying apparatus. 1,720,214; July 9.  
 Gallerani, Alexander, Dormont, Pa. Treatment of spaghetti. 1,726,661; Sept. 3.  
 Gallerie d'Art Moderne, Inc. (See Bray, William J., assignor.)  
 Gallery, Robert A., Bethesda, Md. Electrical igniter for censer fuel blocks. 1,710,615; Apr. 23.  
 Gallet, Henri, assignor to Industrial Corporation Limited, Montreal, Quebec, Canada. Machine for making fasteners. 1,707,758; Apr. 2.  
 Gallet, Maurice, Poughkeepsie, N. Y. Aero propelling and steering means. 1,734,251; Nov. 5.  
 Galletti, Roberto C., London, England. Propagation of wireless waves. 1,714,864; May 28.  
 Galley, Elmer T., Pasadena, Calif. Metal window screen. 1,736,075; Nov. 19.  
 Gallimore, Keith F. (See Kempton, H. E., and Gallimore.)  
 Gallimore, Keith F., Fond du Lac, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Switch. 1,736,493; Nov. 19.  
 Gallimore, Keith F., and R. M. Woytych, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Loading device for work holders. 1,701,448; Feb. 5.  
 Gallimore, Keith F., and R. M. Woytych, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Workholder. 1,714,555; May 28.  
 Gallimore, Keith F., and R. M. Woytych, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Chuck. 1,728,406; Sept. 17.  
 Gallimore, Keith F., and R. M. Woytych, Fond du Lac, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Work holder. 1,740,542; Dec. 24.  
 Gallinant, Raphael C., Ridgefield Park, N. J. Signal-light casing. Des. 78,460; May 7.  
 Gallion, Hailey, Los Angeles, Calif. Automobile trunk. 1,718,134; June 18.  
 Gallison, Ernest A., Watertown, assignor to Bay State Fishing Company, Boston, Mass. Fish-scaling machine. 1,709,909; Apr. 23.  
 Gallison, Ernest A., Watertown, assignor to Bay State Fishing Company, Boston, Mass. Fish header. 1,723,029; Aug. 6.  
 Gallison, Ernest A., Watertown, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Pumping mechanism. 1,735,110; Nov. 12.  
 Gallo P., German, New York, N. Y. Electrical connection. 1,740,294; Dec. 17.  
 Galloway, Charles D., Philadelphia, Pa. Portable storage battery. 1,725,905; Aug. 27.  
 Galloway, James M., Monmouth, Ill. Wardrobe suitcase. 1,717,841; June 18.  
 Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Intermittent drilling and tapping machine. 1,700,980; Feb. 5.  
 Galloway, Robert M., and R. A. Schafer, assignors to The National Automatic Tool Company, Richmond, Ind. Shiftable cylinder drill unit. 1,731,718; Oct. 15.  
 Gallowitz, Gustave A., assignor to The Kny-Scheerer Corporation of America, New York, N. Y. Operating table. 1,710,475; Apr. 23.  
 Gallowitz, Gustave A., assignor to The Kny-Scheerer Corporation of America, New York, N. Y. Sterilizing gauge glass for sterilizers or the like. 1,720,830; July 16.  
 Gallup, Viola, assignor to W. B. Gallup, New York, N. Y. Airplane visor cap. Des. 78,349; Apr. 23.  
 Gallup, Walter B. (See Gallup, Viola, assignor.)  
 Galter, Louis, Rochester, N. Y. Soliciting sheet. 1,736,588; Nov. 19.  
 Galvin, Michael C., Boston, Mass. Inhaler. 1,740,083; Dec. 17.  
 Galvin, Thomas P. (See Dow, J. G., and Galvin.)  
 Galvin, Wade S., assignor to The Akron Standard Mold Company, Akron, Ohio. Vulcanizer. 1,697,460; Jan. 1.  
 Gambiarotti, Piero, Genoa, Italy. Speed-indicating apparatus. 1,724,468; Aug. 13.  
 Gambill, William M., Bowling Green, Ohio. Articulator. 1,711,019; Apr. 30.  
 Gambit, Josephine M. et al. (See Londino, Joseph, assignor.)  
 Gamble, Charles B., Minneapolis, Minn. Gas valve. 1,733,685; Oct. 29.  
 Gamble, David E., Detroit, Mich., assignor to The Borg & Beck Company, Chicago, Ill. Clutch plate. 1,704,503; Mar. 5.  
 Gamble, David E., Detroit, Mich., assignor to The Borg & Beck Company, Chicago, Ill. Clutch. 1,708,967; Apr. 16.  
 Gamble, David E., Detroit, Mich., assignor to The Borg & Beck Company, Chicago, Ill. Clutch. 1,716,436; June 11.  
 Gamble, David E., Detroit, Mich., assignor to The Borg & Beck Company, Chicago, Ill. Clutch. 1,734,767; Nov. 5.  
 Gamble, Harley M., Wabash, Ind. Cooling rack. 1,739,895; Dec. 17.



- Gamble, Helen C., New York, N. Y. Hat bag. 1,733,787; Oct. 29.
- Gamble, William J., East Orange, assignor to Carrier Construction Company, Inc., Newark, N. J. Radiator and the like. 1,721,621; July 23.
- Gambles, William. (See Eaton, William T., assignor.)
- Gambon, Emile, San Francisco, Calif. Mixing device. 1,714,359; May 21.
- Gamel, Wesley D. (See Frank, Emil R., assignor.)
- Gamewell Company, The. (See Grace, Michael J., assignor.)
- Gamewell Company, The. (See Philbrick, F. B., and Raymond, assignors.)
- Gammay, Hermann, Stuttgart, Germany. Making camphor from borneols. 1,710,573; Apr. 23.
- Gammay, Hermann, Stuttgart, Germany. Production of camphene from pinene hydrochloride. 1,721,990; July 23.
- Gammell-Hanney Manufacturing Co. (See Hanney, Angus F., assignor.)
- Gammell, Ove L., and R. W. Woodward, Attleboro, assignors to Smith & Crosby, North Attleboro, Mass. Bracelet construction. 1,720,174; July 9.
- Gammeter, John R. (See Kroeger, Edwin J., assignor.)
- Gammeter, John R. (See Steele, Joseph M., assignor.)
- Gammeter, John R., Akron, Ohio. Tread member for footwear and the like. 1,698,017; Jan. 8.
- Gammeter, John R., Akron, Ohio. Lantern. 1,700,931; Feb. 5.
- Gammeter, John R., Akron, Ohio. Machine and method for forming cables. 1,712,264; May 7.
- Gammeter, John R., Akron, Ohio. Rubber heel. 1,714,714; May 28.
- Gammeter, John R., Akron, Ohio. Core for shoe heels or the like and making the same. 1,731,657; Oct. 15.
- Gammeter, John R., Akron, Ohio. Pneumatic tire and manufacturing the same. 1,737,415; Nov. 26.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-forming apparatus. 1,702,112; Feb. 12.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Wheel rim and tire structure. 1,702,647; Feb. 19.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making wheel-rim assemblies. 1,702,648; Feb. 19.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making tire-building bands. 1,704,186; Mar. 5.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Shoe heel and making the same. 1,708,088; Apr. 9.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for making endless bands. 1,708,129; Apr. 9.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Flexible connector. 1,709,207; Apr. 16.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reinforced endless belt and making the same. 1,709,209; Apr. 16.
- Gammeter, John R., assignor to George W. Perks Company, Akron, Ohio. Abrasive wheel and making the same. 1,709,820; Apr. 16.
- Gammeter, John R., Akron, Ohio, assignor to A. G. Spalding and Bros. Cutting sheet rubber. 1,710,211; Apr. 23.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for vulcanizing hollow articles. 1,714,016; May 21.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for vulcanizing rubber articles. 1,719,218; July 2.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Perforating device for rubber sheets. 1,726,219; Aug. 27.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Conveyor. 1,726,555; Sept. 3.
- Gammeter, John R., Akron, Ohio, assignor to A. G. Spalding and Bros. Method of and apparatus for ball making. 1,729,716; Oct. 1.
- Gammeter, John R., Akron, Ohio, assignor to A. G. Spalding and Bros. Making balls. 1,729,717; Oct. 1.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making pneumatic tire bands. 1,733,405; Oct. 29.
- Gammeter, John R., assignor to The George W. Perks Company, Akron, Ohio. Abrasive wheel. 1,738,472; Dec. 3.
- Gamon, Ernest E., assignor to Phoenix Meter Company, Prince Bay, N. Y. Water-meter-indicator drive. 1,701,070; Feb. 5.
- Gams, Alphonse, and G. Widmer, assignors to the firm: Society of Chemical Industry in Basle, Basel, Switzerland. Condensation products of urea and formaldehyde and making same. 1,718,901; June 25.
- Gams, Alphonse, and F. Locher, assignors to firm of Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of sterols. 1,733,009; Oct. 22.
- Gandee, Otmer, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Trimming device for building tires. 1,702,113; Feb. 12.
- Gane, George W. (See Hopkirk, J., and Gane.)
- Gango, Philip. (See Jackson, Robert L., assignor.)
- Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Treatment of light-metal alloys. 1,712,988; May 14.
- Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Treatment of light-metal alloys. 1,712,989; May 14.
- Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Treatment of magnesium-base alloys. 1,712,990; May 14.
- Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Light-metal alloy. 1,718,642; June 25.
- Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Alloy of magnesium. 1,729,339; Sept. 24.
- Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Treating shavings and scrap of light metal and alloys thereof. 1,739,717; Dec. 17.
- Gann, John A., and J. E. Hoy, assignors to The Dow Chemical Company, Midland, Mich. Casting magnesium and alloy thereof. 1,704,384; Mar. 5.
- Gannett, Danforth K., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Testing system. 1,716,437; June 11.
- Gannett, Danforth K., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Testing system. 1,716,438; June 11.
- Gannett, Danforth K., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Determination of delay by impedance measurements. 1,725,756; Aug. 27.
- Gannett, Danforth K., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Electro-optical system. 1,730,416; Oct. 8.
- Gannett, Danforth K., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Ballast lamp and filament activity test for repeaters. 1,737,652; Dec. 3.
- Gannett, Homer E. (See Smith, E. H., and Gannett.)
- Gannon, John J., and F. W. Foerster, Rittman, assignors to The Ohio Boxboard Company, Cleveland, Ohio. Method of and apparatus for forming the blanks for folded blank boxes. 1,723,149; Aug. 6.
- Gannon, John J., and F. W. Foerster, Rittman, assignors to The Ohio Boxboard Company, Cleveland, Ohio. Corner seal for boxes. 1,723,150; Aug. 6.
- Gano, Harlan S., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,715,750; June 4.
- Gano, Harlan S., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Thermal relay. 1,728,793; Sept. 17.
- Gans, Morris I., New York, N. Y. Belt buckle. 1,722,140; July 23.
- Gans, Robert S., Detroit, Mich. Control lever. 1,710,305; Apr. 23.
- Ganson, Howard H., assignor to The Hygeia Nursing Bottle Co., Buffalo, N. Y. Nursing-bottle holder. 1,730,845; Oct. 8.
- Gantner, Henry W., Columbus, Ohio. Combination advertising sign and mail-box support. Des. 77,949; Mar. 12.
- Gantner, Otto, New York, N. Y. Damping device for cornets. 1,741,835; Dec. 31.
- Gantz, Herman C. (See Eshbaugh, J. E., and Gantz.)
- Ganzer, John H., assignor to Duluth Show Case Company, Duluth, Minn. Steel nail bin. 1,732,437; Oct. 22.
- Gar Wood Inc. (See Smith, Walter S., assignor.)
- Garabedian, George N., Worcester, Mass. Siphon flush valve. 1,725,346; Aug. 20.
- Garaca, Frank, Bessemer, Ala., assignor to Luthy Research Laboratory. Manufacturing secondary-battery plates. 1,713,825; May 21.
- Garaja, Joseph, Pittsburgh, Pa. Paper weight. 1,741,692; Dec. 31.
- Garankin, Theodore P., assignor of fifty per cent to L. Utgoff, New York, N. Y. Umbrella opening and closing attachment. 1,709,208; Apr. 16.
- Garankin, Theodore P., assignor of one-half to Bruno A. Mueller of New York, N. Y. Automatic recording device for hens. 1,722,628; July 30.
- Garaux, Lawrence H., North Canton, Ohio, assignor of one-half to M. W. Krejci, South Orange, N. J. Electric circuit and fuse tester. 1,724,014; Aug. 13.
- Garbade, Heinrich, Oldenburg, Germany. Safety mechanism for motor cars. 1,713,492; May 14.
- Garbell, Max, Chicago, Ill. Windshield cleaner. 1,739,896; Dec. 17.
- Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Typewriter-carriage-locking means. 1,699,061; Jan. 15.
- Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Ribbon shift for typewriters. 1,702,938; Feb. 19.
- Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Margin stop for typewriters. 1,711,313; Apr. 30.
- Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Typewriter paper finger. 1,727,402; Sept. 10.
- Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Key-lever-pivot member. 1,733,788; Oct. 29.
- Garber, Harry D., Cleveland, Ohio. Jail-door-locking mechanism. 1,739,897; Dec. 17.
- Garber, Harry E. (See Pearson, T., and Garber.)



- Garber, Louis B., New York, N. Y. Electric-sign-control mechanism. 1,740,295; Dec. 17.
- Garber, Otis A., Clayton, Mo. Grate shaker. 1,705,247; Mar. 12.
- Garbs, Raymond, Kankakee, Ill. Folding crate or coop. 1,698,678; Jan. 8.
- Garchey, Louis A., Paris, France. Device for the evacuation of waste scraps from kitchens or the like. 1,704,469; Mar. 5.
- Garcia, Gaspar, Habana, Cuba. Multiple-hinge hanger. 1,705,286; Mar. 12.
- Garcia, Gaspar, Habana, Cuba. Curtain roller. 1,736,527; Nov. 19.
- Garcia, Isidro, Buenos Aires, Argentina. Marine turbine. 1,735,641; Nov. 12.
- Garcia, John V., Los Angeles, Calif. Combined bathtub and water heater. 1,723,981; Aug. 6.
- Garcia, José T., Parras, Mexico. Extracting candelilla wax. 1,715,194; May 28.
- Garcia, Rogelio, New York, N. Y. Aircraft. 1,701,407; Feb. 5.
- Garcia, Simon J., San Antonio, Tex. Merry-go-round. 1,729,379; Sept. 24.
- Garcia, Victor F., Laredo, Tex. Device for smoothing ground. 1,733,789; Oct. 29.
- Gard, Earle W., Long Beach, B. G. Aldridge, Los Angeles County, and H. J. Multer, Huntington Park, Calif. Dehydrating oil. 1,739,834; Dec. 17.
- Gard, Earle W., Long Beach, B. G. Aldridge, Los Angeles County and H. J. Multer, Huntington Park, Calif. Treating oil. 1,739,893; Dec. 17.
- Gardella, Albert B., Cleveland, Ohio. Percolator cap. 1,721,812; July 23.
- Gardes, Alfred W., Dayton, Ohio. Rotary pump or the like. 1,704,938; Mar. 12.
- Gardner, Norman B., Baltimore, Md. Liquid-handling apparatus. 1,710,771; Apr. 30.
- Gardner, Robert F. (See Walton, G. P., and Gardiner.)
- Gardner, Robert M., Hartford, Conn. Breech-loading safety gun. 1,704,889; Mar. 12.
- Gardner, William C., Toronto, assignor to Satin Finish Hardwood Flooring Company, Limited, Weston, Ontario, Canada, Surfacing lumber. 1,711,884; May 7.
- Gardner, Alfred C., Cardiff, Wales. Food container. 1,742,066; Dec. 31.
- Gardner, Charles B., jr., Long Beach, Calif. Wind instrument. 1,727,973; Sept. 10.
- Gardner, Charles B., jr., Long Beach, Calif. Self-propelled vehicle. 1,731,303; Oct. 15.
- Gardner, Charles M., Gardners, Pa. Rim expanding and contracting device. 1,715,195; May 28.
- Gardner, Clarence E., sr., J. D., and R. W., Chicago, Ill. Proportional tool. 1,705,182; Mar. 12.
- Gardner-Denver Company, The. (See Barra, John L., assignor.)
- Gardner-Denver Company, The. (See Clark, Omar E., assignor.)
- Gardner-Denver Company, The. (See Downing, E. J., Sheets, and Croft, assignors.)
- Gardner-Denver Company, The. (See Drullard, Howard R., assignor.)
- Gardner-Denver Company. (See Gustafson, Hjalmer C., assignor.)
- Gardner-Denver Company, The. (See Katterjohn, August H., assignor.)
- Gardner-Denver Company, The. (See Neahr, Will C., assignor.)
- Gardner-Denver Company, The. (See Pearson, Gustav C., assignor.)
- Gardner-Denver Company, The. (See Shaw, G. A., and Barra, assignors.)
- Gardner-Denver Company, The. (See Skaer, Arthur H., assignor.)
- Gardner-Denver Company, The. (See Skaer, A. H., and Katterjohn, assignors.)
- Gardner-Denver Company, The. (See Skaer, A. H., Barker, and Clark, assignors.)
- Gardner-Denver Company. (See Skaer, A. H., Barker, Katterjohn, and Clark, assignors.)
- Gardner-Denver Company, The. (See Terry, Edward F., jr., assignor.)
- Gardner, Edward B. and R. D., and J. Nielsen, Beloit, Wis. Grinding machine. Re17,223; Feb. 26.
- Gardner, Florida, assignor of one-half to I. B. Walker, Tampa, Fla. Dress shield. 1,723,776; Aug. 6.
- Gardner, Frank, Dallas, Tex. Decolorizing hydrocarbon oils. 1,732,465; Oct. 22.
- Gardner, Frank K., assignor, by mesne assignments, to Cornstalk Products Company, Inc., New York, N. Y. Cottonseed hull and fiber separator. 1,733,256; Oct. 29.
- Gardner, Fred G., Hohokus, N. J., assignor to American Telephone and Telegraph Company. Carrier-telegraph alarm system. 1,735,041; Nov. 12.
- Gardner, Frederick P., New York, N. Y. Device for spreading and feeding fibrous plant stalks and the like. 1,737,584; Dec. 3.
- Gardner, Frederick P., assignor to Fabricord Incorporated, New York, N. Y. Fiber-cleaning machine. 1,741,765; Dec. 31.
- Gardner, George D., San Jose, Calif., assignor to Sprague-Sells Corporation, Hoopeston, Ill. Variable time cooker. 1,735,242; Nov. 12.
- Gardner, George S. (See Doucett, H. D., and Gardner.)
- Gardner, Henry A., Washington, D. C. Insulating filament. 1,730,417; Oct. 8.
- Gardner, Isabel R., Boston, Mass. Apparatus for teaching mathematics. 1,730,418; Oct. 8.
- Gardner, James H., Tulsa, Okla. Insectifuge. 1,733,958; Oct. 29.
- Gardner, John, Bolton-le-Sands, Carnforth, England. Electric signaling controlled by mechanical vibrations. 1,698,812; Jan. 15.
- Gardner, John D. (See Gardner, Clarence E., sr., J. D., and R. W.)
- Gardner, John E. (See Richardson, R. G., and Gardner.)
- Gardner, John E. (See Wensley, R. J., White, and Gardner.)
- Gardner, John E. (See White, T. U., and Gardner.)
- Gardner, John E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,725,134; Aug. 20.
- Gardner, John E., Chicago, Ill. Automatic telephone system. 1,736,283; Nov. 19.
- Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,727,592; Sept. 10.
- Gardner, John E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,727,593; Sept. 10.
- Gardner, John E., assignor to Brown, Boettcher & Diener, Chicago, Ill. Automatic telephone system. 1,736,259; Nov. 19.
- Gardner, Joseph. (See Brown, T. G., and Gardner.)
- Gardner, Joseph B., assignor to Hammer-Bray Company, Oakland, Calif. Air feed and vent for closed-top gas stoves. 1,702,297; Feb. 19.
- Gardner, Joseph P., Hamilton, Ohio. Nursing bottle. 1,732,126; Oct. 15.
- Gardner, Kenneth C., assignor to The Greenville Steel Car Company, Greenville, Pa. Welded cross brace. 1,710,501; Apr. 23.
- Gardner, Kenneth C., assignor to The Greenville Steel Car Company, Greenville, Pa. Cross brace structure. 1,732,438; Oct. 22.
- Gardner, Pete F., N. Runeberg, and C. W. Cox, Sioux Falls, S. Dak. Heating system for automobiles. 1,701,999; Feb. 12.
- Gardner, Ralph D. (See Gardner, Edward B. and R. D., and Nielsen.)
- Gardner, Robert H., and H. G. Hodge, Coffeyville, Kans., assignors to Sinclair Refining Company, New York, N. Y. Refining of hydrocarbon oils. 1,740,584; Dec. 24.
- Gardner, Robert T., Philadelphia, Pa., assignor to National Slate Machine Company. Resurfacing machine. 1,728,487; Sept. 17.
- Gardner, Robert W. (See Gardner, Clarence E., sr., J. D., and R. W.)
- Gardner, Stephen L. (See Farley, Alfred C., assignor.)
- Gardner, William M., Pittsburgh, Pa. Vehicle advertising sign. 1,705,517; Mar. 19.
- Gare, Thomas, Stockport, England. Wearing surface of pavements, roads, treads, and the like. 1,738,571; Dec. 10.
- Garey, Charles Q. (See Drissner, A. E., and Garey.)
- Garfield, Edward L., Crestwood, N. Y. Washing machine. 1,697,861; Jan. 8.
- Garfield, James L., Drexel Hill, Pa. Visible card index. 1,698,329; Jan. 8.
- Garfield, James L., Drexel Hill, Pa. Visible card index. 1,698,586; Jan. 8.
- Garfield, James L., Drexel Hill, Pa. Visible loose-leaf device. 1,705,287; Mar. 12.
- Gargiulo, Frederick, New Haven, Conn. Radiator unit. 1,701,752; Feb. 12.
- Garhart Dental Specialty Co. (See Garhart, Nathan K., assignor.)
- Garhart, Nathan K., Watertown, assignor to Garhart Dental Specialty Co., Somerville, Mass. Bottle. 1,731,816; Oct. 15.
- Garino, Oreste, Butte, Mont. Separable rock drill. 1,738,883; Dec. 10.
- Gariglio, Joseph, New York, N. Y. Safety attachment for extractors. 1,735,745; Nov. 12.
- Garisio, Theodore J., Allentown, Pa. Fabric slitter for looms. 1,732,678; Oct. 22.
- Garland, J. Vern, et al. (See Kellogg, Alfred E., assignor.)
- Garlick, Fred J., Detroit, Mich. Battery-post clamp. 1,716,489; June 11.
- Garlick, Jew, Paterson, N. J. Automatic coaster for autos. 1,740,455; Dec. 24.
- Garlick, William A., San Francisco, Calif. Card-display machine. 1,741,228; Dec. 31.
- Garlick, William A. (See Page, Marshall H., assignor.)
- Garlius, Bernt, assignor to A. J. McDonough, Detroit, Mich. Boiler-feed-water regulator. 1,726,529; Sept. 3.
- Garlock Packing Company, The. (See Hubbard, Cecil R., assignor.)
- Garman, George G., Washington, D. C. Electric system for pipe-organ coupler control. 1,721,110; July 16.
- Garman, Raymond H., Wilmette, Ill. Educational device. 1,735,456; Nov. 12.
- Garmo, Antone, Portland, Oreg. Carrier block for lumber carriers. 1,697,273; Jan. 1.
- Garmo, Antone, Portland, Oreg. Carrier block for lumber carriers. 1,697,461; Jan. 1.
- Garner, Lorraine A., Los Angeles, Calif. Combined cigarette and match case and ash tray. Des. 78,706; June 11.



- Garnett, Arlond C., assignor to The Cleveland Crane and Engineering Company, Wickliffe, Ohio. Suspended carrier. 1,725,264; Aug. 20.
- Garnett, Henry J. (See Smith, W. S., and Garnett.)
- Garnett, Henry J. (See Smith, W. S., Garnett, and Holden.)
- Garnett, J. D., et al. (See Lane, Fletcher, assignor.)
- Garniss, Arthur L., Springfield, assignor to Dennison Manufacturing Company, Framingham, Mass. Container. 1,712,607; May 14.
- Garrard, Charles G., assignor to Garrard Gears Limited, London, England. Change-speed gear. 1,709,345; Apr. 16.
- Garrard, Charles G., assignor to Garrard Gears Limited, London, England. Variable-speed gearing. 1,709,346; Apr. 16.
- Garrard, Charles G., assignor to Garrard Gears Limited, London, England. Transmission of power. 1,737,997; Dec. 3.
- Garrard Gears Limited. (See Garrard, Charles G., assignor.)
- Garraway, Lee O., assignor of one-fourth to J. R. Meyers, Memphis, Tenn. Feed-water heater. 1,698,787; Jan. 15.
- Garrett, Daniel T., Waco, Tex. Planter attachment. 1,722,463; July 30.
- Garrett, Henry, assignor of one-third to C. F. Maulen, and one-third to J. M. Spellman, Dallas, Tex. Automatic street signaling system. 1,728,602; Sept. 17.
- Garrett, John W. (See Grissom, F. L., and Garrett.)
- Garrett, Philip L., trustee. (See White, William W., assignor.)
- Garrett, Stuart G., Tulsa, Okla. Choke control for carburetors. 1,732,969; Oct. 22.
- Garrett, Wilber R. (See Tallmadge, Andrew P., assignor.)
- Garrett, William J., Mesquite, Tex. Cotton blocker. 1,709,259; Apr. 16.
- Garris, Joseph M., Avalon, Pa. Cable or sling. 1,703,269; Feb. 26.
- Garris, Loyal, Michigan Center, Mich. Automatic stabilizer and brake for aeroplanes. 1,724,188; Aug. 13.
- Garrison, Allen, Houston, Tex. Battery cap. 1,697,353; Jan. 1.
- Garrison, Herman, Chicago, Ill. Can opener. 1,734,517; Nov. 5.
- Garrison, Willard W. (See Mundstock, H. C., Falvey, and Garrison.)
- Garrow, Robert P., Chesterfield, England. Filing system. 1,710,796; Apr. 30.
- Garrup, Paul A., Islip, N. Y. Lock nut. 1,734,461; Nov. 5.
- Garson, Thorvald N., New Brighton, N. Y. Hoisting device. 1,707,517; Apr. 2.
- Garson, Thorvald N., New Brighton, N. Y. Hoisting device. 1,707,518; Apr. 2.
- Gartin, Elmer G., Claremont, N. H. Rock-drilling tool. 1,741,126; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,703,229; Feb. 26.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Percussive tool. 1,703,841; Feb. 26.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Feeding mechanism. 1,703,842; Feb. 26.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,703,843; Feb. 26.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,707,631; Apr. 2.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. 1,713,471; May 14.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,730,322; Oct. 1.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Pressure-fluid motor. 1,737,456; Nov. 26.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock-drilling mechanism. 1,739,856; Dec. 10.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Feeding apparatus. 1,740,683; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,740,684; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Expandable-chamber motor. 1,740,685; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling motor. 1,740,686; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,740,687; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Fluid-pressure motor. 1,740,688; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,740,689; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,740,690; Dec. 24.
- Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,742,166; Dec. 31.
- Garling, George. (See Marks, Donn O., assignor.)
- Gartner, Henry A., Brooklyn, N. Y., assignor of one-half to R. J. Campbell, jr., Drexel Hill, Pa. Arch-supporting footwear. 1,717,968; June 18.
- Gartner, Henry A., Brooklyn, N. Y., assignor of one-half to R. J. Campbell, jr., Drexel Hill, Pa. Combined heel and arch support for footwear. 1,728,536; Sept. 17.
- Garuffa, Egido, Milan, Italy. Internal-combustion engine. 1,722,578; Oct. 22.
- Garver, Rols S., Portis, Kans. Adjustable steel vault. 1,735,966; Nov. 19.
- Garvey, David F., Chicago, Ill. Water-heating apparatus. 1,726,020; Aug. 27.
- Garvey, Frederick G. (See Kempf, Karl F. W., assignor.)
- Garvey, Michael J., jr., and F. G. Simpson, St. Joseph, Mo. Ice-loading apparatus. 1,705,010; Mar. 12.
- Garvin, Cecil A., Buffalo Creek, Colo. Subsoiler attachment for plows. 1,717,379; June 18.
- Garvin, Edward J., Glendale, and J. B. Johnson, Los Angeles, Calif., assignors to Concrete Engineering and Equipment Company, Clarksdale, Ariz. Hand-operated concrete-block mold. 1,717,676; June 18.
- Garvin, Edwin L., et al. (See Bauer, Charles G., assignor.)
- Garvin, James E., Brooklyn, N. Y. Luggage carrier. 1,714,283; May 21.
- Garvis, Gus, Des Moines, Iowa. Barbecue machine. 1,740,729; Dec. 24.
- Gary, Laurence A., San Francisco, and H. G. Tasker, Los Angeles, Calif., assignors to American Telephone and Telegraph Company. Measurement of electrical resistance. 1,736,783; Nov. 26.
- Gas Machinery Company, The. (See Brown, James A., assignor.)
- Gas Refrigeration Corporation. (See Otto S., and Bruehl, assignors.)
- Gas Research Company, The. (See Smith, Harry F., assignor.)
- Gasey, Leo L., Chicago, Ill. Dead-locking mechanism for door latches. 1,706,486; Mar. 26.
- Gasgo Power Corporation. (See Dickerman, Allen E., assignor.)
- Gasifier Company, The. (See Reichhelm, George L., assignor.)
- Gasirowski, Ernst. (See Kannengiesser, P., and Gasirowski.)
- Gaskell & Chambers Limited. (See Weightman, John S., assignor.)
- Gaskell, Charles W., assignor to R. Hoe & Co., Inc., New York, N. Y. Oil guard for impression cylinders. 1,709,394; Apr. 16.
- Gaskill, Earl R., Royal Oak, Mich. Boot and shoe shining device. 1,723,848; Aug. 6.
- Gaskill, James W., Canterbury, Conn. Cigar holder. 1,728,237; Sept. 17.
- Gaskin, Thomas H., Woodford, England. Reversible lifeboat. 1,730,363; Oct. 8.
- Gaskins, Palemon H., Jacksonville, Fla. Latch for automobile doors. 1,721,016; July 16.
- Gasner, Fannie. (See Gasner, Philip and S., assignors.)
- Gasner, Philip and S., assignors to F. Gasner, New York, N. Y. Collecting dust. 1,729,103; Sept. 24.
- Gasner, Sigmund. (See Gasner, Philip and S.)
- Gasoline Corporation. (See Greenstreet, Charles J., assignor.)
- Gasoline Corporation. (See Hildebrandt, William, assignor.)
- Gasoline Products Company. (See Black, John C., assignor.)
- Gasoline Products Company. (See Cross, Walter M., assignor.)
- Gaspari, J., & Company. (See Gaspari, Joseph, assignor.)
- Gaspari, Joseph, assignor to J. Gaspari & Company, Inc., New York, N. Y. Eyeglasses. Des. 77,479; Jan. 15.
- Gaspari, Joseph, assignor to J. Gaspari & Company, Inc., New York, N. Y. Eyeglasses. Des. 77,480; Jan. 15.
- Gasparik, Rudolf, New York, N. Y. Circuit interrupter. 1,713,078; May 14.
- Gass, Ernest, Chichy, France. Lubricating apparatus. 1,719,362; July 2.
- Gassen, Emil G., Chicago, Ill. Partition for banks, offices, and other similar places. 1,703,580; Feb. 26.
- Gassen, Emil G., Chicago, Ill. Partition for banks, offices, and other similar places. 1,714,305; May 21.
- Gassen, Josef, Dusseldorf-Rath, Germany. Rolling mill. 1,714,034; May 21.
- Gast, Adolf W., assignor to Chicago Miniature Lamp Works, Chicago, Ill. Sign letter. 1,697,501; Jan. 1.
- Gast, William H. (See Stephan, Emil H., assignor.)
- Gastell, Franz, Mombach, near Mainz, Germany. Blast nozzle. 1,729,577; Sept. 24.
- Gastman, Jack, New York, N. Y. Filling device for cigar and cigarette lighter. 1,738,181; Dec. 3.
- Gaston, George L., Jersey City, N. J. Cigarette dispenser. 1,715,498; June 4.
- Gaston, Guy E., Baltimore, assignor to W. T. Holmes, Catonsville, Md. Combination cornice and pilaster. Des. 77,540; Jan. 22.
- Gaston, Guy E., Baltimore, assignor to W. T. Holmes, Catonsville, Md. Combination Cornice and pilaster. Des. 77,541; Jan. 22.



- Gaston, Guy E., Baltimore, assignor to W. T. Hormes, Catonsville, Md. Partition. Des. 77,542; Jan. 22.
- Gaston, Guy E., Baltimore, assignor to W. T. Hormes, Catonsville, Md. Partition. Des. 77,543; Jan. 22.
- Gaston, Leon, Manchester, England. Lighting of vehicles. 1,716,690; June 11.
- Gaston, Louise, Chicago, Ill. Wreath. 1,730,846; Oct. 8.
- Gastrich, Gustav, assignor to The Textile Machine Works, Wyomissing, Pa. Testing device for knitting-machine needles. 1,703,928; Mar. 5.
- Gastrow, Hans. (See Bokelmann, H., and Gastrow.)
- Gat Gun Lubricating Corporation. (See White, Claude E., assignor.)
- Gatchell, Frederick D., New York, N. Y. Refillable bottle for vending oil. 1,739,357; Dec. 10.
- Gatchell, George S., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. End cap for cylinder-bed sewing machines. 1,724,274; Aug. 13.
- Gatchell, George S., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Loop-forming device for sewing machines. 1,738,644; Dec. 10.
- Gatchell, Helen C., assignor to Visible Night-and-Day Street-Name Signs, Incorporated, Chicago, Ill. Street sign. 1,736,437; Nov. 19.
- Gatchet, Francis L., Seattle, Wash., assignor of one-half to J. J. Blumer. Mechanical sound-producing device for toys. 1,720,394; July 9.
- Gately, J. W., & Sons. (See Gately, John W., assignor.)
- Gately, John W., Charlestown, assignor to J. W. Gately & Sons, Boston, Mass. Gripping device for bands, belts, and the like. 1,701,178; Feb. 5.
- Gately, Martin H., Henderson, Nebr. Centrifugally-operated clutch. 1,720,952; July 16.
- Gates, Bernard W., Pleasantville, N. Y. Cable construction. 1,728,119; Sept. 10.
- Gates, Charles C., Denver, Colo. Display bracket. 1,728,603; Sept. 17.
- Gates, Frederic P., West Hartford, assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Switch and fuse-plug socket. 1,698,587; Jan. 8.
- Gates, Frederic P., West Hartford, assignor, by mesne assignments, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Circuit breaker for snap switches. 1,728,794; Sept. 17.
- Gates, George E., assignor of one-third to J. W. Forward, Edgewood, Iowa, and one-third to W. H. Stark, Yates, Mo. Coin holder for mail boxes. 1,712,662; May 14.
- Gates, George W., Macedon, N. Y. Apple feeding and paring machine. 1,711,051; Apr. 30.
- Gates, Hubert H., Franklin, Mass. Building construction. 1,702,340; Feb. 19.
- Gates, Leroy G., Bakersfield, assignor to Standard Oil Company of California, San Francisco, Calif. Lubricating apparatus. 1,714,773; May 28.
- Gates, Steve, Braddock, Pa. Life preserver. 1,734,619; Nov. 5.
- Gathmann, Emil, Baltimore, Md. Producing steel ingots. 1,711,052; Apr. 30.
- Gathmann, Emil, Baltimore, Md. Ingot. 1,712,608; May 14.
- Gathmann, Emil, Baltimore, Md. Apparatus for molding ingots. 1,719,542; July 2.
- Gathmann, Emil, Baltimore, Md. Ingot mold and ingot. 1,719,543; July 2.
- Gathmann, Emil, Baltimore, Md. Making ingot molds. 1,719,544; July 2.
- Gathmann, Emil, Baltimore, Md. Shrink-head casing for ingot molds. 1,739,222; Dec. 10.
- Gathmann Engineering Company. (See Messler, Eugene L., assignor.)
- Gathmann, Fred, Ridgefield, N. J. Dough-cutting machine. 1,735,111; Nov. 12.
- Gathmys Research Corporation. (See Madorsky, Samuel L., assignor.)
- Gatke, Thomas L., Chicago, Ill. Friction lining and forming same. 1,738,291; Dec. 3.
- Gatter, Willibald, Aussig-Schreckenstein, Czechoslovakia. Vehicle axle. 1,722,206; July 23.
- Gattino, Edgardo. (See Bertinetti, G., and Gattino.)
- Gattle, Emmanuel M., New York, N. Y. Bill holder. 1,737,230; Nov. 26.
- Gattrell, William S., Lees Summit, Mo. Power transmission for nonreversible motors. 1,721,592; July 23.
- Gau, Henry F., Cincinnati, Ohio. Heating pad. 1,698,703; Jan. 8.
- Gauchot, Prosper F., Paris, France. Pivoting head lamp for vehicles. 1,709,784; Apr. 16.
- Gauger, Alfred W., Tottenville, and H. H. Storch, New York, N. Y., assignors to Burnham Chemical Company, Reno, Nev. Obtaining sodium tetraborate. 1,727,639; Sept. 10.
- Gaughan, Henry L., Hamilton, Ohio. Headlight. 1,712,300; May 7.
- Gaughan, John J., Arlington, assignor to Hood Rubber Company, Watertown, Mass. Overshoe and method of manufacture. 1,702,864; Feb. 19.
- Gaugler, Charles L. (See Davey, James A., and P. H., and Gaugler.)
- Gaul, Sebastian, Wyckoff, N. J. Woodworking clamp. 1,712,142; May 7.
- Gault, Clyde C., Wooster, Ohio. Inflated toy alligator. Des. 78,882; July 2.
- Gauntlett, James M., Seattle, Wash. Envelope machine. 1,702,733; Feb. 19.
- Gaupp, Rudolf, Cologne-on-the-Rhine, assignor to Motorenfabrik Deutz Aktiengesellschaft, Cologne-Deutz, Germany. Injecting nozzle for viscous fuels in Diesel engines. 1,737,653; Dec. 3.
- Gaus, Ernst G. (See Andel, F. J., and Gaus.)
- Gaus, Wilhelm, R. Griessbach, Ludwigshafen-on-the-Rhine, and O. Schliephake, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Making mixed fertilizer. 1,699,234; Jan. 15.
- Gautheron, Jean L., Paris, France. Letter-holding device. 1,722,245; July 23.
- Gauthier, Donat A., Detroit, Mich. Testing device. 1,718,553; June 25.
- Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company Incorporated, New York, N. Y. Machine for working metal strands. 1,706,729; Mar. 26.
- Gautier, Trevor R., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H. Coating-applying device. 1,732,637; Oct. 22.
- Gautier, Trevor R., assignor to Nashua Gummed & Coated Paper Company, Nashua, N. H. Moistening device. 1,732,638; Oct. 22.
- Gautier, Trevor R., assignor to Nashua Gummed & Coated Paper Company, Nashua, N. H. Moistening device. 1,732,639; Oct. 22.
- Gautier, Trevor R., and H. E. Nichols, assignors to Nashua Gummed and Coated Paper Company, Nashua, N. H. Strip-serving machine. 1,732,636; Oct. 22.
- Gavaza, George V., Quincy, Mass. Adapter for smooth-faced faucets. 1,724,131; Aug. 13.
- Gavett, Weston, Plainfield, N. J. Mechanical removal of solids from clarification tanks, etc. 1,734,967; Nov. 12.
- Gavin, Alphonsus, Goldfield, Nev., assignor to Novak Club Inc., San Francisco, Calif. Golf club. 1,703,581; Feb. 26.
- Gavin, Patrick, Brooklyn, N. Y. Nailing machine. 1,711,935; May 7.
- Gay, Azel, assignor to Multipost Company, Incorporated, Rochester, N. Y. Stamp-affixing machine. 1,721,386; July 16.
- Gay, Frazer W., Newark, N. J. Heat-transfer system for electric transformers or other devices. 1,700,839; Feb. 5.
- Gay, Frazer W., Newark, N. J. Heat-transfer means for closed rotating electrical machinery. 1,700,840; Feb. 5.
- Gay, Frazer W., Newark, N. J. Load division in electric power generation. 1,709,846; Apr. 23.
- Gay, Frazer W., Newark, N. J. Thermal relay. 1,724,758; Aug. 13.
- Gay, Frazer W., Newark, N. J. Heat-transfer means. 1,725,906; Aug. 27.
- Gay, Frazer W., Newark, N. J. Single-pipe steam heating system. 1,733,120; Oct. 29.
- Gay, Frazer W., Newark, N. J. Electric switch. 1,736,528; Nov. 19.
- Gay, Frazer W., Newark, N. J. Alternating-current generator and electric system including the same. 1,739,136; Dec. 10.
- Gay, Frazer W., Newark, N. J. Heat-transfer means for rotating electrical machinery. 1,739,137; Dec. 10.
- Gay, Norman H., Los Angeles, Calif. Quick-connection valve. 1,700,632; Jan. 29.
- Gay, Norman H., Los Angeles, Calif. Refrigerating coil system. 1,715,328; June 4.
- Gay, Norman H., Los Angeles, Calif. Condenser having increased pitch of flow. 1,726,617; Sept. 3.
- Gayley, Charles T. (See Merten, W. J., and Gayley.)
- Gaylord, John F., Flint, Mich. Variable-speed clutch. 1,730,362; Oct. 8.
- Gaylord, Robert H., Los Angeles, Calif. Signaling system for elevators. Re17,411; Aug. 20.
- Gaylord, Robert H., Los Angeles, Calif. Elevator-signaling system. 1,709,785; Apr. 16.
- Gayman, Bert A., San Mateo, Calif., assignor to Link-Belt Company, Chicago, Ill. Sleeve for roller bearings. 1,699,330; Jan. 15.
- Gaymy, M. Emile, administrator. (See Retif, Georges.)
- Gaynor, Arthur C., Bridgeport, Conn. Attachment-plug receptacle. 1,719,363; July 2.
- Gaynor, Arthur C., Stratford, Conn. Attachment-plug cap. 1,729,740; Oct. 1.
- Gaynor, Arthur C., Stratford, Conn. Electric switch. 1,739,835; Dec. 17.
- Gayraud, José, and J. V. Casteran, Buenos Aires, Argentina. Corn gatherer and husker. 1,721,387; July 16.
- Gayter, Reginald. (See Symes, W., and Gayter.)
- Gazda, Anton, Vienna, Austria. Spring handle bar for motor cycles and the like. 1,719,007; July 2.
- Gazelle, Michel S., Detroit, Mich. Electric water heater. 1,698,992; Jan. 15.
- Gazelle, Michel S. (See Hyde, L. B., and Gazelle.)
- Gazelle, Roland J., Montreal, Quebec, Canada. Tank construction. 1,737,712; Dec. 3.
- Geake, William H. G., Killara, Sydney, Australia, assignor to C. A. Griffin, Inc. Combined seam and closing cap therefor. 1,716,547; June 11.
- Gear Grinding Machine Company. (See Drummond, Robert S., assignor.)
- Gearhart, Emory J., Clearfield, Pa. Looping machine. 1,739,358; Dec. 10.
- Gearhart, Roy E., assignor of one-half to T. W. Lee, Kansas City, Mo. Windshield wiper. 1,738,884; Dec. 10.



- Gearing, Harry, Los Angeles, Calif., assignor to Nebraska Printing Company, Lincoln, Nebr. Operating ductor rollers on printing machinery. 1,698,301; Jan. 8.
- Geaslen, Richard L., Chicago, Ill. Water-heating apparatus. 1,697,862; Jan. 8.
- Gebauer, Carl P., Nuremberg, Germany. Vehicle spring, particularly for automobiles. 1,706,487; Mar. 26.
- Gebauer, Charles L., Cleveland, Ohio. Ethyl-chloride-dispensing tube. 1,727,876; Sept. 10.
- Gebauer-Fuehnegg, Erich, Vienna, Austria, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose condensation product and making same. 1,734,291; Nov. 5.
- Gebauer, Herman C., St. Paul, Minn. Reflecting advertisement display cabinet. Des. 78,972; July 16.
- Gebauer, Oscar E., Scottsbluff, Nebr. Wrist mirror. Des. 79,071; July 30.
- Gebert, Albert E. (See Richardson, M. H., and Gebert.)
- Gebhart Folding Box Company, The. (See Wise, Stanley G., assignor.)
- Gebhart, Fred E., Zanesville, Ohio. Oil-dispensing can. 1,727,056; Sept. 3.
- Gebroder Brehmer Maschinenfabrik. (See Kleinschmit, Oscar, assignor.)
- Gehr, Körtzing Aktiengesellschaft. (See Gentzen, Ludwig, assignor.)
- Gebroder Siemens & Co. (See Queisser, Paul, assignor.)
- Gebroder Sulzer Aktiengesellschaft. (See Baumann, Emil, assignor.)
- Gebser, Paul, Magdeburg, Germany. Tray for card-index systems. 1,730,069; Oct. 1.
- Geddes, David, Berkeley, Calif. Elevator bucket. 1,737,231; Nov. 26.
- Geddes, John, Middlesex, England. Hydraulic transmission of power or for use as brakes. 1,702,207; Feb. 12.
- Geddes, William R. (See Brasseur, E. J., and Geddes.)
- Gedeon, Andrew and V., Chicago, Ill. Radiator. 1,721,149; July 16.
- Gedeon, Victor. (See Gedeon, Andrew and V.)
- Gedney, Stanley L., Maplewood, N. J. Collar pin. 1,731,163; Oct. 8.
- Gee, Albert, Elkins Park, Pa. Hosiery. Des. 78,745; June 18.
- Geer, Harry R., Johnstown, Pa., assignor to Bethlehem Steel Company. Rolling mill. 1,735,746; Nov. 12.
- Geer, Ralph C., Tacoma, Wash. Antilocking spinner-blade clevis. 1,698,193; Jan. 8.
- Geer, William C. (See Fisher, H. L., and Geer.)
- Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Electrical insulation. 1,731,488; Oct. 15.
- Geer, William C., New Rochelle, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and making the same. 1,731,484; Oct. 15.
- Geer, William C., New Rochelle, assignor to The B. F. Goodrich Company, New York, N. Y. Composition of matter. 1,731,487; Oct. 15.
- Geer, William C., and H. A. Winkelmann, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Heat plastic derivative of rubber. 1,705,757; Mar. 19.
- Geer, William C., and H. L. Fisher, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber composition and producing the same. 1,731,485; Oct. 15.
- Geer, William C., New Rochelle, N. Y., and H. L. Fisher, Leona, N. J., assignors to The B. F. Goodrich Company, New York, N. Y. Producing rubber compositions having low-moisture absorption. 1,731,849; Oct. 15.
- Geertsen, Christian, Scotia, N. Y. Folding stool. 1,714,420; May 21.
- Gégauff, Charles, assignor to Société Alsacienne de Constructions Mécaniques, Mulhouse, France. Controlling the nippers in Heilmann and like combers. 1,713,959; May 21.
- Gégauff, Charles, assignor to Société Alsacienne de Constructions Mécaniques, Mulhouse, Haut-Rhin, France. Controlling the nippers in Heilmann and like combers. 1,714,017; May 21.
- Gegenheimer, William, Baldwin, and E. E. Barney, Port Washington, N. Y. Apparatus for offset printing. 1,700,219; Jan. 29.
- Gehrich, Charles L., Long Island City, N. Y. Treating emery wheels. 1,735,747; Nov. 12.
- Gehrig, Walter, Detroit, Mich. Power steering apparatus. Re17,508; Nov. 26.
- Gehrig, William F., Berkley Heights, N. J. Detonating firework composition. 1,736,745; Nov. 19.
- Gehrig, William F., assignor to Essex Specialty Co. Inc., Berkley Heights, N. J. Detonating firework composition. 1,712,555; May 14.
- Gehrig, William F., assignor to Essex Specialty Co. Inc., Berkley Heights, N. J. Pyrotechnical device. 1,734,722; Nov. 5.
- Gehring, John, Jersey City, assignor to Beaver Machine & Tool Co., Inc., Newark, N. J. Duplex outlet receptacle. 1,733,222; Oct. 29.
- Gehring, Louis C., Pittsburgh, Pa., and J. F. Denman, Circleville, Ohio. Cleaning and separating vegetables for canning. 1,708,057; Apr. 9.
- Gehrlein, Vincent, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,709,071; Apr. 16.
- Gehrlein, Vincent, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,709,072; Apr. 16.
- Gehrlein, Vincent, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,709,125; Apr. 16.
- Gehrs, Emil, Pasadena, Calif. Electric foot warmer. 1,701,973; Feb. 12.
- Geier, P. A., Company, The. (See Hedges, George L., assignor.)
- Geier, P. A., Company, The. (See Lawrence, C. B., and Martinet, assignors.)
- Geiger, Eugen, Karlsruhe, Baden, Germany. Apparatus for the mechanical purification of waste water. 1,716,376; June 11.
- Geiger, Hans, Berlin-Charlottenburg, and G. Baust, Berlin-Steglitz, Germany, assignors to Westinghouse Electric and Manufacturing Company. Limit switch for hoists. 1,699,785; Jan. 22.
- Geiger, Josef, assignor to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Diesel locomotive. 1,714,219; May 21.
- Geiger, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,704,735; Mar. 12.
- Geiger, Paul H., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus and electrical apparatus suitable for use therein. 1,704,736; Mar. 12.
- Geiger, Paul H., Swissvale, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 1,725,709; Aug. 20.
- Geiger, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical rectifier. 1,728,537; Sept. 17.
- Geiger, Paul H., Wilkinsburg, and W. S. Brown, assignors to The Union Switch & Signal Company, Swissvale, Pa. Manufacture of electrical rectifiers. 1,704,734; Mar. 12.
- Geiger, Ray L., Covington, Ind. Brake release. 1,729,380; Sept. 24.
- Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,703,306; Feb. 26.
- Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 1,706,446 Mar. 26.
- Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,713,960; May 21.
- Geiger, William A., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Roller side bearing. 1,720,175; July 9.
- Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,720,726; July 16.
- Geiger, William A., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism and process of fitting parts. 1,730,500; Oct. 8.
- Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,739,223; Dec. 10.
- Geigy, J. R. (See Oswald, Leopold, assignor.)
- Geigy, firm of J. R., S. A. (See Läger, Paul, assignor.)
- Geigy, J. R., S. A. (See Müller, Hermann, assignor.)
- Geigy, J. R., S. A. (See Schäfer, Josef, assignor.)
- Geiler, Julius F. (See Englen, F. J., and Geiler.)
- Geipert, Rudolph, Berlin-Mariendorf, Germany. Method of and apparatus for testing coal. 1,721,813; July 23.
- Geis, Wilfred H., Los Angeles, Calif. Device for orientating whipstocks. 1,734,033; Nov. 5.
- Geis, Wilfred H., and J. E. Van Gundy, Los Angeles, Calif. Depthometer. 1,699,235; Jan. 15.
- Geise, Hermann, Berlin-Oberschöneweide, Germany, assignor to General Electric Company. Suppressing higher harmonics. 1,722,207; July 23.
- Geisel, Karl, Levallois-Perret, France, assignor by mesne assignments, to Aluminum Solder Corporation of America, New York, N. Y. Soldering composition. 1,721,814; July 23.
- Geiseler, Heinz, Berlin-Wilmersdorf, Germany. Twine seal. 1,722,908; July 30.
- Geisen, Alois, Augsburg, Germany. Method of and apparatus for producing photoluminescent pictures. 1,724,572; Aug. 13.
- Geisen, Hans, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric power-generating system. 1,737,791; Dec. 3.
- Geisler, Charles J., Chicago, Ill. Spring latch. 1,720,593; July 9.
- Geisler, Otto, assignor of one-third to G. Seth, Chicago, Ill. Collapsible gas container with internal bracing. 1,715,829; June 4.
- Geisslinger, Jean, Geneva, assignor to the Firm Schild & Co., La Chaux-de-Fonds, Switzerland. Electromagnet. 1,708,014; Apr. 9.
- Geist, Walter, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Belt end connector. 1,706,354; Mar. 19.
- Geist, William J. (See Entwistle, R. R., and Geist.)
- Geistert, Albert G. (See Whitacre, C. J., and Geistert.)
- Geistert, Albert G., assignor to General Motors Corporation, Detroit, Mich. Horn-button contact. 1,718,643; June 25.
- Gelatt, Philo M., La Crosse, Wis., assignor, by mesne assignments, to National Gauge & Equipment Company, Wilmington, Del. Electrical indicating instrument. 1,723,275; Aug. 6.
- Gelbaugh, William H., Tacoma, Wash. Triple-motion sash and hinge for casement windows. 1,727,877; Sept. 10.
- Geldhof, Peter E. (See Nelson, J. C., and Geldhof.)
- Gelfand, Simon, Los Angeles, Calif. Display stand. Des. 77,684; Feb. 12.



- Gelfand, Simon, Baltimore, Md. Food product and making same. 1,697,312; Jan. 1.
- Gellinas, Wilfred F. (See Abbott, C. C., and Gellinas.)
- Gella, Norbert, assignor to Piepmeyer & Co. Kommanditgesellschaft, Cassel-Wilhelmshöhe, Germany. Electrical prospecting device. 1,708,386; Apr. 9.
- Geller, Leon W., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Disazo pyrazolone coloring matters which contain a 1,5-dihydroxynaphthalene nucleus. 1,706,878; Mar. 26.
- Geller, Leon W., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Monazo dyes of the pyrazolone series. 1,711,639; May 7.
- Gellner, Belle B., trustee. (See Graver, Edwin H., assignor.)
- Geloso, Giovanni. (See Signorini, A., and Geloso.)
- Geloso, John, New York, N. Y. Indicator element. 1,703,582; Feb. 26.
- Geloso, John, New York, assignor to Pilot Electric Manufacturing Company, Inc., Brooklyn, N. Y. Escutcheon plate for a radio dial. Des. 77,950; Mar. 12.
- Geloso, John, New York, assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Brooklyn, N. Y. Escutcheon plate for indicating means. Des. 79,512; Oct. 1.
- Gem Engineering Corporation, The. (See Barnes, Llewellyn T., assignor.)
- Gem Hammock & Fly Net Company, The. (See Janisch, Max P., assignor.)
- Gem Metal Shield, Inc., The. (See Elters, William S., assignor.)
- Gemberling, Cameron H. (See Altgelt, R. J., and Gemberling.)
- Gemberling, Cameron H., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Spool for disk-gang assemblies. 1,738,885; Dec. 10.
- Gemex Company. (See Prestinari, Eugen, assignor.)
- Gemex Company. (See Roy, Wilfred J., assignor.)
- Gemmer Manufacturing Company. (See Osburn, Wallace N., assignor.)
- Génard, Lucien, Oyonnax, France, assignor to H. D. Thurgar Limited, London, England. Combined hair slide and postiche holder. Des. 78,883; July 2.
- Gendron Wheel Company, The. (See Meyers, James C., assignor.)
- Gendron Wheel Company, The. (See Nauts, Frank A., assignor.)
- General Aniline Works, Inc. (See Ballauf, Fritz, assignor.)
- General Aniline Works, Inc. (See Baumann, Fritz, assignor.)
- General Aniline Works, Inc. (See Bérgdolt, A., Neelmeier, and Nocken, assignors.)
- General Aniline Works, Inc. (See Christ, Wilhelm, assignor.)
- General Aniline Works, Inc. (See Eichwede, H., Fischer, and Sieglitz, assignors.)
- General Aniline Works, Inc. (See Fellmer, Ernst, assignor.)
- General Aniline Works, Inc. (See Grimmel, H., and Clingstein, assignors.)
- General Aniline Works, Inc. (See Günther, Fritz, assignor.)
- General Aniline Works, Inc. (See Haas, Gustav, assignor.)
- General Aniline Works, Inc. (See Hentrich, Finfrid, assignor.)
- General Aniline Works, Inc. (See Hentrich, Winfred, assignor.)
- General Aniline Works, Inc. (See Hentrich, W., and Hardtmann, assignors.)
- General Aniline Works, Inc. (See Hentrich, W., Hardtmann, and Knoche, assignors.)
- General Aniline Works, Inc. (See Herz, R., and Zerweck, assignors.)
- General Aniline Works, Inc. (See Herzberg, W., and Hoppe, assignors.)
- General Aniline Works, Inc. (See Hess, Fritz, assignor.)
- General Aniline Works, Inc. (See Heusner, K., and Simon, assignors.)
- General Aniline Works, Inc. (See Hoffa, E., Brune, and Müller, assignors.)
- General Aniline Works, Inc. (See Hoffa, E., Heyna, and Müller, assignors.)
- General Aniline Works, Inc. (See Hoffa, E., and Luce, assignors.)
- General Aniline Works, Inc. (See Hoffa, E., Runne, and Thoma, assignors.)
- General Aniline Works, Inc. (See Holzach, Karl, assignor.)
- General Aniline Works, Inc. (See Holzappel, E., and Braunsdorf, assignors.)
- General Aniline Works, Inc. (See Höpker, Julius, assignor.)
- General Aniline Works, Inc. (See Kämmerer, Hans, assignor.)
- General Aniline Works, Inc. (See Kirchhoff, R., and Cantor, assignors.)
- General Aniline Works, Inc. (See Kirsheisen, T., and Guertler, assignors.)
- General Aniline Works, Inc. (See Konrad, Rudolf, assignor.)
- General Aniline Works, Inc. (See Kranzlein, G., and Sedlmayr, assignors.)
- General Aniline Works, Inc. (See Kränzlein, G., and Vollmann, assignors.)
- General Aniline Works, Inc. (See Kränzlein, G., Vollmann, and Wilke, assignors.)
- General Aniline Works, Inc. (See Kränzlein, G., Voss, and Brunträger, assignors.)
- General Aniline Works, Inc. (See Krecke, Friedrich, assignor.)
- General Aniline Works, Inc. (See Krzikalla, Hans, assignor.)
- General Aniline Works, Inc. (See Laska, L., and Zitscher, assignors.)
- General Aniline Works, Inc. (See Lüttringhaus, A., and Kacer, assignors.)
- General Aniline Works, Inc. (See Lüttringhaus, A., and Wolff, assignors.)
- General Aniline Works, Inc. (See Metzger, Richard, assignor.)
- General Aniline Works, Inc. (See Meyer, K. H., and Krzikalla, assignors.)
- General Aniline Works, Inc. (See Meyer, Oswald, assignor.)
- General Aniline Works, Inc. (See Mieg, W., and Raeder, assignors.)
- General Aniline Works, Inc. (See Nawiaskey, Paul, assignor.)
- General Aniline Works, Inc. (See Nawiaskey, P., and Krauch, assignors.)
- General Aniline Works, Inc. (See Neelmeier W., and Nocken, assignors.)
- General Aniline Works, Inc. (See Polikier, H., and Boeger, assignors.)
- General Aniline Works, Inc. (See Rabe, Paul, assignor.)
- General Aniline Works, Inc. (See Rabe, P., Wenk, and Hartmann, assignors.)
- General Aniline Works, Inc. (See Rath, Julius, assignor.)
- General Aniline Works, Inc. (See Schirmacher, K., and Hoffa, assignors.)
- General Aniline Works, Inc. (See Schirmacher, K., Stein, and Stenger, assignors.)
- General Aniline Works, Inc. (See Schirmacher K., and van Zütphen, assignors.)
- General Aniline Works, Inc. (See Schmelzer A., Muth, and Glietenberg, assignors.)
- General Aniline Works, Inc. (See Schweitzer, H., and Huismann, assignors.)
- General Aniline Works, Inc. (See Thiess, K., Müller, and Renn, assignors.)
- General Aniline Works, Inc. (See Trautner, W., Stein, and Berliner, assignors.)
- General Aniline Works, Inc. (See Tschunkur, E., and Eichler, assignors.)
- General Aniline Works, Inc. (See Virck, Paul, assignor.)
- General Aniline Works, Inc. (See Wagner, Hermann, assignor.)
- General Aniline Works, Inc. (See Wagner, H., Brune, Hessenland, Hoffa, Müller, and Heyna, assignors.)
- General Aniline Works, Inc. (See Wagner, H., Eichwede, and Fischer, assignors.)
- General Aniline Works, Inc. (See Wagner, H., and Fischer, assignors.)
- General Aniline Works, Inc. (See Weinand, Klaus, assignor.)
- General Aniline Works, Inc. (See Wolfsleben, George, assignor.)
- General Aniline Works, Inc. (See Zitscher, A., and Muris, assignors.)
- General Aniline Works, Inc. (See Zitscher, A., and Seidenfaden, assignors.)
- General Asbestos and Rubber Company, The. (See Pike, Frederick H., assignor.)
- General Bottle Cap Corporation. (See Knowles, William H., assignor.)
- General Cable Corporation. (See Hunter, Joseph H., assignor.)
- General Cable Corporation. (See Potter, Frank M., assignor.)
- General Cable Corporation. (See Simons, Donald M., assignor.)
- General Cable Corporation. (See Snyder, Edward, assignor.)
- General Cable Corporation. (See Varley, Richard, assignor.)
- General Cable Corporation. (See Wachter, Frank, assignor.)
- General Cable Corporation. (See Wodtke, Hans, assignor.)
- General Chain Company. (See Eklund, Alexander, assignor.)
- General Chemical Company. (See Adamson, George P., assignor.)
- General Chemical Company. (See Benner, R. C., and Thompson, assignors.)
- General Chemical Company. (See Isenberg, Hans O. C., assignor.)
- General Chemical Company. (See Levermore, Charles L., assignor.)
- General Chemical Company. (See Lohmann, William H., assignor.)
- General Chemical Company. (See Melendy, Jesse G., assignor.)
- General Chemical Company. (See Merriam, Henry F., assignor.)
- General Chemical Company. (See Mullen, Edwin J., assignor.)
- General Chemical Company. (See Tilley, Clarence E., assignor.)



- General Chemical Company. (See Wellman, Noël T., assignor.)  
 General Chewing Gum Corporation. (See Flint, Clarence H., assignor.)  
 General Cigar Company Limited. (See Van Sickels, John H., assignor.)  
 General Combustion Company. (See Bartley, John M., assignor.)  
 General Dry Batteries, Incorporated. (See Deibel, Cyril P., assignor.)  
 General Dry Batteries, Incorporated. (See Mertes, Clarence N., assignor.)  
 General Electric Company. (See Abbott, Charles C., assignor.)  
 General Electric Company. (See Abbott, C. C., and Gelinas, assignors.)  
 General Electric Company. (See Abbott, C. C., and Hunt, assignors.)  
 General Electric Company. (See Abbott, C. C., and Milnes, assignors.)  
 General Electric Company. (See Acly, Harry M., assignor.)  
 General Electric Company. (See Adair, George P., assignor.)  
 General Electric Company. (See Adams, Nathan H., assignor.)  
 General Electric Company. (See Albrecht, Fritz, assignor.)  
 General Electric Company. (See Alexander, Peter P., assignor.)  
 General Electric Company. (See Alexanderson, Ernst F. W., assignor.)  
 General Electric Company. (See Anderson, Arvid E., assignor.)  
 General Electric Company. (See Anderson, A. E., and Bany, assignors.)  
 General Electric Company. (See Anderson, Robert G., assignor.)  
 General Electric Company. (See Andrews, Paul D., assignor.)  
 General Electric Company. (See Aoki, Sataro, assignor.)  
 General Electric Company. (See Austin, Edward, assignor.)  
 General Electric Company. (See Averrett, Andrew E., assignor.)  
 General Electric Company. (See Bailey, Allen E., assignor.)  
 General Electric Company. (See Bailey, Percy S., assignor.)  
 General Electric Company. (See Baker, Walter R. G., assignor.)  
 General Electric Company. (See Bakke, Hans A., assignor.)  
 General Electric Company. (See Bany, Herman, assignor.)  
 General Electric Company. (See Bany, H., and Seeley, assignors.)  
 General Electric Company. (See Barringer, Lawrence E., assignor.)  
 General Electric Company. (See Barton, Frederick C., assignor.)  
 General Electric Company. (See Barton, Loy E., assignor.)  
 General Electric Company. (See Barton, Theophilus F., assignor.)  
 General Electric Company. (See Bauerschmidt, Kuno, assignor.)  
 General Electric Company. (See Bear, Ralston E., assignor.)  
 General Electric Company. (See Beekman, Royce A., assignor.)  
 General Electric Company. (See Belt, Thomas A. E., assignor.)  
 General Electric Company. (See Benford, Frank A., assignor.)  
 General Electric Company. (See Bennett, Ralph S., assignor.)  
 General Electric Company. (See Bergman, Sven R., assignor.)  
 General Electric Company. (See Biermanns, Josef, assignor.)  
 General Electric Company. (See Bigenwald, Rudolf, assignor.)  
 General Electric Company. (See Bird, Lester F., assignor.)  
 General Electric Company. (See Bissiri, Augusto, assignor.)  
 General Electric Company. (See Bliss, Elmer F., assignor.)  
 General Electric Company. (See Bol, Cornelis, assignor.)  
 General Electric Company. (See Bolis, Pietro, assignor.)  
 General Electric Company. (See Bond, Leslie W., assignor.)  
 General Electric Company. (See Bower, George W., assignor.)  
 General Electric Company. (See Boyajian, A., and Camilli, assignors.)  
 General Electric Company. (See Brand, Frederick F., assignor.)  
 General Electric Company. (See Brobst, John E., assignor.)  
 General Electric Company. (See Brokaw, Charles A., assignor.)  
 General Electric Company. (See Brown, C. A., and Nielsen, assignors.)  
 General Electric Company. (See Brown, H. D., and Sabbah, assignors.)  
 General Electric Company. (See Brown, Ray F., assignor.)  
 General Electric Company. (See Brown, Walter W., assignor.)  
 General Electric Company. (See Brückel, W., and Lauster, assignors.)  
 General Electric Company. (See Brune, Sven J., assignor.)  
 General Electric Company. See Bumstead, W. D., and Aurada, assignors.)  
 General Electric Company. (See Burnham, Locke H., assignor.)  
 General Electric Company. (See Burrows, William R., assignor.)  
 General Electric Company. (See Bürstyn, Walther, assignor.)  
 General Electric Company. (See Bushman, Andrew K., assignor.)  
 General Electric Company. (See Butcher, J. H., and Bird, assignors.)  
 General Electric Company. (See Butler, Henry E., assignor.)  
 General Electric Company. (See Byles, Frank A., assignor.)  
 General Electric Company. (See Byrnes, Irving F., assignor.)  
 General Electric Company. (See Camilli, Guglielmo, assignor.)  
 General Electric Company. (See Camilli, G., and Boyajian, assignors.)  
 General Electric Company. (See Campbell, Percy A., assignor.)  
 General Electric Company. (See Carichoff, E. R., and Jones, assignors.)  
 General Electric Company. (See Carlson, George, assignor.)  
 General Electric Company. (See Carlson, Wendell L., assignor.)  
 General Electric Company. (See Carpenter, Glenn W., assignor.)  
 General Electric Company. (See Carter, Emmett F., assignor.)  
 General Electric Company. (See Cartun, Paul O., assignor.)  
 General Electric Company. (See Case, James W., assignor.)  
 General Electric Company. (See Caughey, Reed J., assignor.)  
 General Electric Company. (See Champlin, Franklin J., assignor.)  
 General Electric Company. (See Charlton, Ernest E., assignor.)  
 General Electric Company. (See Chatto, Harry M., assignor.)  
 General Electric Company. (See Chislet, Harry, assignor.)  
 General Electric Company. (See Clark, Wallace S., assignor.)  
 General Electric Company. (See Coffin, Francis P., assignor.)  
 General Electric Company. (See Coldwell, Frank T., assignor.)  
 General Electric Company. (See Coolidge, William D., assignor.)  
 General Electric Company. (See Cordray, Richard E., assignor.)  
 General Electric Company. (See Courtin, E., and Bayer, assignors.)  
 General Electric Company. (See Creighton, Elmer E. F., assignor.)  
 General Electric Company. (See Crémer, Michel, assignor.)  
 General Electric Company. (See Crocker, Irving S., assignor.)  
 General Electric Company. (See Dalton, William, assignor.)  
 General Electric Company. (See Dantsizen, Christian, assignor.)  
 General Electric Company. (See Davey, Wheeler P., assignor.)  
 General Electric Company. (See de Graaff, Antonius, assignor.)  
 General Electric Company. (See De Groat, Charles T., assignor.)  
 General Electric Company. (See de Koning, Theodore, assignor.)  
 General Electric Company. (See De Reamer, Frank C., assignor.)  
 General Electric Company. (See De Tar, Donald R., assignor.)  
 General Electric Company. (See Devers, Philip K., assignor.)  
 General Electric Company. (See Dicke, Oscar H., assignor.)  
 General Electric Company. (See Dickenson, William J., assignor.)  
 General Electric Company. (See Dickinson, Edgar D., assignor.)  
 General Electric Company. (See Diehl, Heinrich, assignor.)  
 General Electric Company. (See Dietze, Richard, assignor.)  
 General Electric Company. (See Doran, John H., assignor.)  
 General Electric Company. (See Dreghorn, Herbert, assignor.)



- General Electric Company. (See Dunoyer, L. D. J. A., and Toulon, assignors.)  
 General Electric Company. (See Eaton, John, assignor.)  
 General Electric Company. (See Ebel, Arthur, assignor.)  
 General Electric Company. (See Eby, Eugene D., assignor.)  
 General Electric Company. (See Ehlers, Walther, assignor.)  
 General Electric Company. (See Ehlers, W., and Falkenberg, assignors.)  
 General Electric Company. (See Ellis, Alvarado L. R., assignor.)  
 General Electric Company. (See Emmet, William L. R., assignor.)  
 General Electric Company. (See Evans, Lewis W., assignor.)  
 General Electric Company. (See Fagan, John T., assignor.)  
 General Electric Company. (See Fagan, J. T., and Malloy, assignors.)  
 General Electric Company. (See Fagan, J. T., and Phelps, assignors.)  
 General Electric Company. (See Fagan, J. T., Rippl, and Malloy, assignors.)  
 General Electric Company. (See Falge, Robert N., assignor.)  
 General Electric Company. (See Faus, Harold T., assignor.)  
 General Electric Company. (See Fehse, Adolf, assignor.)  
 General Electric Company. (See Fehse, W., and Hagen, assignors.)  
 General Electric Company. (See Fiego, Alexander J. R., assignor.)  
 General Electric Company. (See Fielding, George T., assignor.)  
 General Electric Company. (See Fitz Patrick, J. J., and Chessman, assignors.)  
 General Electric Company. (See Flaws, John, jr., assignor.)  
 General Electric Company. (See Floring, Carl W., assignor.)  
 General Electric Company. (See Fonda, Gorton R., assignor.)  
 General Electric Company. (See Fortin, Paul R., assignor.)  
 General Electric Company. (See Frank, John J., assignor.)  
 General Electric Company. (See French, Henry G., assignor.)  
 General Electric Company. (See Friederich, Ernst, assignor.)  
 General Electric Company. (See Frisch, William F., assignor.)  
 General Electric Company. (See Geise, Hermann, assignor.)  
 General Electric Company. (See Gillette, Robert T., assignor.)  
 General Electric Company. (See Given, R. D., and Pool, assignors.)  
 General Electric Company. (See Goff, Robert W., assignor.)  
 General Electric Company. (See Goldschmidt, Robert, assignor.)  
 General Electric Company. (See Goldsmith, Alfred N., assignor.)  
 General Electric Company. (See Goodwin, Alan M., assignor.)  
 General Electric Company. (See Gordon, Julius, assignor.)  
 General Electric Company. (See Gosling, J. W., and Fortin, assignors.)  
 General Electric Company. (See Goss, Byron C., assignor.)  
 General Electric Company. (See Gottschalk, Ernst, assignor.)  
 General Electric Company. (See Green, Harold V., assignor.)  
 General Electric Company. (See Haddrell, Charles H., assignor.)  
 General Electric Company. (See Hall, Chester I., assignor.)  
 General Electric Company. (See Halle, Simon, assignor.)  
 General Electric Company. (See Halvorson, Cromwell, A. B., assignor.)  
 General Electric Company. (See Halvorson, Cromwell A. B., jr., assignor.)  
 General Electric Company. (See Halvorson, C. A. B., jr., and Vickery, assignors.)  
 General Electric Company. (See Harrington, Elliott D., assignor.)  
 General Electric Company. (See Harris, George S., assignor.)  
 General Electric Company. (See Harrison, Howard R., assignor.)  
 General Electric Company. (See Haughton, Frank A., assignor.)  
 General Electric Company. (See Hayman, William C., assignor.)  
 General Electric Company. (See Heath, H. C., Regis, and Ruddick, assignors.)  
 General Electric Company. (See Hegarty, W., and Delseiroth, assignors.)  
 General Electric Company. (See Heisler, Charles L., assignor.)  
 General Electric Company. (See Hendricks, Allan B., jr., assignor.)  
 General Electric Company. (See Hewlett, Clarence W., assignor.)  
 General Electric Company. (See Hewlett, Edward M., assignor.)  
 General Electric Company. (See Hewlett, E. M., and Willard, assignors.)  
 General Electric Company. (See Hibacsko, George, assignor.)  
 General Electric Company. (See Hildebrand, Lee E., assignor.)  
 General Electric Company. (See Hilliard, John D., assignor.)  
 General Electric Company. (See Hobart, Henry M., assignor.)  
 General Electric Company. (See Hollnagel, Herbert P., assignor.)  
 General Electric Company. (See Holt, K. M., Warner, and Pollard, assignors.)  
 General Electric Company. (See Hough, Eugene L., assignor.)  
 General Electric Company. (See Howell, Fred B., assignor.)  
 General Electric Company. (See Hull, Albert W., assignor.)  
 General Electric Company. (See Hull, Edwin H., assignor.)  
 General Electric Company. (See Hull, John I., assignor.)  
 General Electric Company. (See Hutt, Leonard P., assignor.)  
 General Electric Company. (See Illingworth, George, assignor.)  
 General Electric Company. (See Ipsen, Carl L., assignor.)  
 General Electric Company. (See Ipsen, C. L., and Otis, assignors.)  
 General Electric Company. (See Irby, William, assignor.)  
 General Electric Company. (See Isaac, Archibald C. T., assignor.)  
 General Electric Company. (See Isshiki, Teizo, assignor.)  
 General Electric Company. (See Jackson, Henry W., assignor.)  
 General Electric Company. (See Jackson, James A., assignor.)  
 General Electric Company. (See Jacoby, Richard, assignor.)  
 General Electric Company. (See Jacoby, R., and Koref, assignors.)  
 General Electric Company. (See Jefts, Frank M., assignor.)  
 General Electric Company. (See Jewitt, Dennis E., assignor.)  
 General Electric Company. (See Johannesen, Svend E., assignor.)  
 General Electric Company. (See Jones, Benjamin W., assignor.)  
 General Electric Company. (See Jones, B. W., and Chapman, assignors.)  
 General Electric Company. (See Jones, B. W., and Connelly, assignors.)  
 General Electric Company. (See Jones, Charles E., assignor.)  
 General Electric Company. (See Jordan, Hans, assignor.)  
 General Electric Company. (See Kannengieser, P., and Gasiorowski, assignors.)  
 General Electric Company. (See Kearsley, William K., assignor.)  
 General Electric Company. (See Kearsley, William K., jr., assignor.)  
 General Electric Company. (See Kelley, Floyd C., assignor.)  
 General Electric Company. (See Kellogg, Edward W., assignor.)  
 General Electric Company. (See Kelsey, Charles A., assignor.)  
 General Electric Company. (See Kendall, James M., assignor.)  
 General Electric Company. (See Kennedy, Luke F., assignor.)  
 General Electric Company. (See Kimball, A. L., jr., and Hull, assignors.)  
 General Electric Company. (See Kingdon, Kenneth H., assignor.)  
 General Electric Company. (See Kinnard, Isaac F., assignor.)  
 General Electric Company. (See Kinnard, I. F., and Pratt, assignors.)  
 General Electric Company. (See Kjolseth, Ole K., assignor.)  
 General Electric Company. (See Knoderer, Homer G., assignor.)  
 General Electric Company. (See Koller, Lewis R., assignor.)  
 General Electric Company. (See Krape, R. D., and Hamilton, assignors.)  
 General Electric Company. (See Langley, Ralph H., assignor.)  
 General Electric Company. (See Langmuir, Irving, assignor.)  
 General Electric Company. (See Lejeune, S. M., and Fetch, assignors.)  
 General Electric Company. (See Lennox, John S., assignor.)



- General Electric Company. (See Lewis, Edward H., assignor.)  
 General Electric Company. (See Lewis, John O., assignor.)  
 General Electric Company. (See Loebe, W. W., and Ledig, assignors.)  
 General Electric Company. (See Lougee, Norman A., assignor.)  
 General Electric Company. (See Loughren, Arthur V., assignor.)  
 General Electric Company. (See Love, Joseph E., assignor.)  
 General Electric Company. (See Lyon, Henry W., assignor.)  
 General Electric Company. (See Mackay, George M. J., assignor.)  
 General Electric Company. (See Macmillan, Campbell, assignor.)  
 General Electric Company. (See MacRae, Mungo L., assignor.)  
 General Electric Company. (See Maggs, Arthur H., assignor.)  
 General Electric Company. (See Massey, Wesley F., assignor.)  
 General Electric Company. (See Mathieu, Joseph X., assignor.)  
 General Electric Company. (See Matunaga, Yosinobu, assignor.)  
 General Electric Company. (See Mauger, Samuel W., assignor.)  
 General Electric Company. (See Maxwell, Howard, assignor.)  
 General Electric Company. (See Mayr, Otto, assignor.)  
 General Electric Company. (See McDonald, Gordon R., assignor.)  
 General Electric Company. (See McNairy, Jacob W., assignor.)  
 General Electric Company. (See McNeil, Ronald S., assignor.)  
 General Electric Company. (See McRell, Harry F., assignor.)  
 General Electric Company. (See Meiners, Gustav, assignor.)  
 General Electric Company. (See Merrill, Frank W., assignor.)  
 General Electric Company. (See Merrill, Wilbur L., assignor.)  
 General Electric Company. (See Mey, Karl, assignor.)  
 General Electric Company. (See Meyer, Friedrich W., assignor.)  
 General Electric Company. (See Miki, Sempel, assignor.)  
 General Electric Company. (See Miller, Levi B., assignor.)  
 General Electric Company. (See Mittag, Albert H., assignor.)  
 General Electric Company. (See Morse, Harold F., assignor.)  
 General Electric Company. (See Mullaney, D. A., and Hendry, assignors.)  
 General Electric Company. (See Müller, Heinrich, assignor.)  
 General Electric Company. (See Murphy, Edwin J., assignor.)  
 General Electric Company. (See Nauk, Georg, assignor.)  
 General Electric Company. (See Newton, Edward G., assignor.)  
 General Electric Company. (See Nickle, Clifford A., assignor.)  
 General Electric Company. (See Noble, Paul O., assignor.)  
 General Electric Company. (See Nordlander, Birger W., assignor.)  
 General Electric Company. (See Norris, Marvin L., assignor.)  
 General Electric Company. (See O'Neil, James A., assignor.)  
 General Electric Company. (See Orr, Clark, assignor.)  
 General Electric Company. (See Otis, Albert N., assignor.)  
 General Electric Company. (See Otis, A. N., and Hegel, assignors.)  
 General Electric Company. (See Page, Albert B., assignor.)  
 General Electric Company. (See Palueff, Konstantin K., assignor.)  
 General Electric Company. (See Panthen, Charles H., assignor.)  
 General Electric Company. (See Pascher, Adalbert, assignor.)  
 General Electric Company. (See Paul, William E., assignor.)  
 General Electric Company. (See Peek, Frank W., jr., assignor.)  
 General Electric Company. (See Perry, Charles L., assignor.)  
 General Electric Company. (See Pestarini, Joseph M., assignor.)  
 General Electric Company. (See Petch, Herbert S., assignor.)  
 General Electric Company. (See Petersen, Waldemar, assignor.)  
 General Electric Company. (See Phelan, John J., assignor.)  
 General Electric Company. (See Pike, Otis W., assignor.)  
 General Electric Company. (See Pipkin, Marvin, assignor.)  
 General Electric Company. (See Pirani, Marcello, assignor.)  
 General Electric Company. (See Pohl, Robert, assignor.)  
 General Electric Company. (See Pollock, Alan A., assignor.)  
 General Electric Company. (See Powell, Samuel T., assignor.)  
 General Electric Company. (See Pratt, William H., assignor.)  
 General Electric Company. (See Prince, David C., assignor.)  
 General Electric Company. (See Prindle, Raymond B., assignor.)  
 General Electric Company. (See Rankin, William K., assignor.)  
 General Electric Company. (See Read, John C., assignor.)  
 General Electric Company. (See Relyea, Walter I., assignor.)  
 General Electric Company. (See Remané, Hermann, assignor.)  
 General Electric Company. (See Rice, Chester W., assignor.)  
 General Electric Company. (See Rice, C. W., and Kellogg, assignors.)  
 General Electric Company. (See Rice, Kenneth A., assignor.)  
 General Electric Company. (See Riecke, Ernst, assignor.)  
 General Electric Company. (See Robinson, Lewis T., assignor.)  
 General Electric Company. (See Rosenlöcher, Otto, assignor.)  
 General Electric Company. (See Ross, Ernest, assignor.)  
 General Electric Company. (See Rowell, Ralph M., assignor.)  
 General Electric Company. (See Rowney, William, H., assignor.)  
 General Electric Company. (See Ruder, William E., assignor.)  
 General Electric Company. (See Ruggles, William A., assignor.)  
 General Electric Company. (See Sabbah, Camille A., assignor.)  
 General Electric Company. (See St. Clair, Byron W., assignor.)  
 General Electric Company. (See Sanborn, Arthur R., assignor.)  
 General Electric Company. (See Savage, Arthur C., assignor.)  
 General Electric Company. (See Schiebeler, Carl, assignor.)  
 General Electric Company. (See Schild, Charles A., assignor.)  
 General Electric Company. (See Schmidt, August, jr., assignor.)  
 General Electric Company. (See Schombourger, Lucien, assignor.)  
 General Electric Company. (See Schroter, Karl, assignor.)  
 General Electric Company. (See Schröter, Karl, assignor.)  
 General Electric Company. (See Schurig, Otto R., assignor.)  
 General Electric Company. (See Schwennker, Charles F., assignor.)  
 General Electric Company. (See Scott, Carl F., assignor.)  
 General Electric Company. (See Sealey, Harold T., assignor.)  
 General Electric Company. (See Seiz, Walter, assignor.)  
 General Electric Company. (See Sherburne, Arthur J., assignor.)  
 General Electric Company. (See Simonds, Dewey T., assignor.)  
 General Electric Company. (See Sims, William J., assignor.)  
 General Electric Company. (See Sindeband, M. L., Tidd, and Milnor, assignors.)  
 General Electric Company. (See Sittel, Alfred, assignor.)  
 General Electric Company. (See Skaupy, Franz, assignor.)  
 General Electric Company. (See Skaupy, F., Nachod, and Gaidies, assignors.)  
 General Electric Company. (See Smith, Arthur R., assignor.)  
 General Electric Company. (See Smithells, Colin J., assignor.)  
 General Electric Company. (See Spurck, Robert M., assignor.)  
 General Electric Company. (See Staak, Julius H., assignor.)  
 General Electric Company. (See Stahlhut, Henry W., assignor.)  
 General Electric Company. (See Standerwick, Reginald G., assignor.)  
 General Electric Company. (See Starie, George B., assignor.)  
 General Electric Company. (See Staudenmeir, L., and Isaac, assignors.)  
 General Electric Company. (See Steadwell, Elery, assignor.)  
 General Electric Company. (See Steele, Russell, assignor.)  
 General Electric Company. (See Steenstrup, Christian, assignor.)  
 General Electric Company. (See Stein, Theodor, assignor.)  
 General Electric Company. (See Steinmetz, Charles P., assignor.)  
 General Electric Company. (See Stephens, Howard O., assignor.)



- General Electric Company. (See Stephenson, Hugh M., assignor.)  
 General Electric Company. (See Stern, Georg, assignor.)  
 General Electric Company. (See Stevens, Harry M., assignor.)  
 General Electric Company. (See Stevenson, Alexander R., jr., assignor.)  
 General Electric Company. (See Stiles, W. H., Wagener, and Donovan, assignors.)  
 General Electric Company. (See Stöbe, Otto, assignor.)  
 General Electric Company. (See Stone, Charles W., assignor.)  
 General Electric Company. (See Strickland, Royal F., assignor.)  
 General Electric Company. (See Stürner, Otto, assignor.)  
 General Electric Company. (See Summerhayes, Henry R., assignor.)  
 General Electric Company. (See Taylor, George F., assignor.)  
 General Electric Company. (See Thomas, R. N., and Dorgeloh, assignors.)  
 General Electric Company. (See Thompson, Louis W., assignor.)  
 General Electric Company. (See Thomson, Elihu, assignor.)  
 General Electric Company. (See Tobey, Harry W., assignor.)  
 General Electric Company. (See Tovey, George H., assignor.)  
 General Electric Company. (See Townsend, George R., assignor.)  
 General Electric Company. (See Traver, Oliver, C., assignor.)  
 General Electric Company. (See Trencham, H., Heath, and Newton, assignors.)  
 General Electric Company. (See Tripp, Augustus B., assignor.)  
 General Electric Company. (See Valentine, Irving R., assignor.)  
 General Electric Company. (See Van Brunt, Charles G., assignor.)  
 General Electric Company. (See Van Brunt, C., and Miller, assignors.)  
 General Electric Company. (See Van Horn, I. H., and Pipkin, assignors.)  
 General Electric Company. (See Van Liempt, Johannes A., assignor.)  
 General Electric Company. (See Vickery, Harry W., assignor.)  
 General Electric Company. (See von Schaubert, Alexander, assignor.)  
 General Electric Company. (See Wade, E. J., and Rudge, assignors.)  
 General Electric Company. (See Wagner, R. B., and Laird, assignors.)  
 General Electric Company. (See Walle, Ludwig S., assignor.)  
 General Electric Company. (See Walle, L. S., and Brown, assignors.)  
 General Electric Company. (See Warner, D. F., and Ericson, assignors.)  
 General Electric Company. (See Warner, Earle E., assignor.)  
 General Electric Company. (See Warner, Russell A., assignor.)  
 General Electric Company. (See Warren, G. B., and Wirt, assignors.)  
 General Electric Company. (See Warren, Henry E., assignor.)  
 General Electric Company. (See Warren, H. W. H., and Newbound, assignors.)  
 General Electric Company. (See Watson, George O., assignor.)  
 General Electric Company. (See Weaver, Simon H., assignor.)  
 General Electric Company. (See Webb, L. W., and Woodward, assignors.)  
 General Electric Company. (See Weber, Louis J., assignor.)  
 General Electric Company. (See Weed, James M., assignor.)  
 General Electric Company. (See Weiler, Wilhelm, assignor.)  
 General Electric Company. (See Weinman, Rudolph A., assignor.)  
 General Electric Company. (See Welch, Alfred F., assignor.)  
 General Electric Company. (See Welsch, Wilhelm, assignor.)  
 General Electric Company. (See Weston, Frederick H., assignor.)  
 General Electric Company. (See White, William C., assignor.)  
 General Electric Company. (See Whiting, Max A., assignor.)  
 General Electric Company. (See Whiting, M. A., and Harrington, assignors.)  
 General Electric Company. (See Whitney, Laurence H., assignor.)  
 General Electric Company. (See Wiegand, Kurt, assignor.)  
 General Electric Company. (See Wildeboer, Marinus, assignor.)  
 General Electric Company. (See Willard, Ben, assignor.)  
 General Electric Company. (See Wilson, Myron S., assignor.)  
 General Electric Company. (See Winne, Harry A., assignor.)  
 General Electric Company. (See Winter, Fred H., assignor.)  
 General Electric Company. (See Wirt, Harrison L., assignor.)  
 General Electric Company. (See Wolf, Walter, assignor.)  
 General Electric Company. (See Wood, Alexander P., assignor.)  
 General Electric Company. (See Woodrow, Harry R., assignor.)  
 General Electric Company. (See Wright, Daniel K., assignor.)  
 General Electric Company. (See Wuckel, Günter, assignor.)  
 General Electric Company. (See Yamazaki, Kunpei, assignor.)  
 General Electric Company. (See Young, A. P., and Butcher, assignors.)  
 General Electric Company. (See Young, A. P., and Hutt, assignors.)  
 General Electric Company. (See Young, A. P., and Stace, assignors.)  
 General Electric Company. (See Yuyama, Juji, assignor.)  
 General Electric Company. (See Zelewski, Alexander, assignor.)  
 General Engineering Company, The. (See MacIntosh, John C., assignor.)  
 General Fire Extinguisher Company. (See Barrows, George S., assignor.)  
 General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)  
 General Fire Extinguisher Company. (See Meloan, Jonathan C., assignor.)  
 General Fire Extinguisher Company. (See Rose, Herbert E., assignor.)  
 General Fireproofing Company, The. (See Brainard, G. C., and Fitch, assignors.)  
 General Fireproofing Company. (See Gourley, Glenn T., assignor.)  
 General Fireproofing Company, The. (See Sprott, Jarl S., assignor.)  
 General Gas Light Company. (See Humphrey, George A., assignor.)  
 General Gas Light Company. (See Humphrey, Hubert R., assignor.)  
 General Ice Cream Corporation. (See Fisher, Dean W., assignor.)  
 General Implement Company. (See Davidson, Jay B., assignor.)  
 General Implement Company. (See Shields, Frank S., assignor.)  
 General Industries Company, The. (See Schmittgen, William A., assignor.)  
 General Iron Works Company, The. (See Reuss, Arthur E., assignor.)  
 General Linen Supply & Laundry Co. Inc. (See Troy, Max, assignor.)  
 General Manufacturing Corporation. (See Young, Jacob, assignor.)  
 General Mills, Inc. (See Ulstrom, Alger R., assignor.)  
 General Motor and Tyre Company, The. (See Smith, Cuthbert C., assignor.)  
 General Motors Corporation. (See Alfes, John H., assignor.)  
 General Motors Corporation. (See Almen, Harold V., assignor.)  
 General Motors Corporation. (See Anibal, Benjamin H., assignor.)  
 General Motors Corporation. (See Ayers, Joseph G., assignor.)  
 General Motors Corporation. (See Beringer, Roscoe, assignor.)  
 General Motors Corporation. (See Blackmore, Lloyd, assignor.)  
 General Motors Corporation. (See Blackmore, L., and Jones, assignors.)  
 General Motors Corporation. (See Blackmore, L., and McConkey, assignors.)  
 General Motors Corporation. (See Boca, Joseph, assignor.)  
 General Motors Corporation. (See Bower, Ferdinand A., assignor.)  
 General Motors Corporation. (See Casson, Wesley C., assignor.)  
 General Motors Corporation. (See Cataline, Benton, assignor.)  
 General Motors Corporation. (See Chambers, Russell G., assignor.)  
 General Motors Corporation. (See Chapman, W. H., and Hutchinson, assignors.)  
 General Motors Corporation. (See Church, Harold D., assignor.)  
 General Motors Corporation. (See Cochrane, Walter S., assignor.)  
 General Motors Corporation. (See Conn, George C., assignor.)  
 General Motors Corporation. (See Dailey, John B., assignor.)  
 General Motors Corporation. (See Denyes, Harry M., assignor.)  
 General Motors Corporation. (See De Waters, Enos A., assignor.)  
 General Motors Corporation. (See Doane, Harry C., assignor.)



- General Motors Corporation. (See Doane, H. C., and Blackmore, assignors.)  
 General Motors Corporation. (See Earl, Harley J., assignor.)  
 General Motors Corporation. (See Eason, Clarence M., assignor.)  
 General Motors Corporation. (See Eason, C. M., and Oliver, assignors.)  
 General Motors Corporation. (See Ellis, F. T., and Wilber, assignors.)  
 General Motors Corporation. (See Ellis, Lockwood B., assignor.)  
 General Motors Corporation. (See Fehse, Albert W., assignor.)  
 General Motors Corporation. (See Fisher, Alfred J., assignor.)  
 General Motors Corporation. (See Forbes, Kingston, assignor.)  
 General Motors Corporation. (See Geistert, Albert G., assignor.)  
 General Motors Corporation. (See Geyer, Harvey D., assignor.)  
 General Motors Corporation. (See Gibbons, Harold R., assignor.)  
 General Motors Corporation. (See Gilbert, Henry H., assignor.)  
 General Motors Corporation. (See Golden, Harry S., assignor.)  
 General Motors Corporation. (See Goodspeed, Elvin S., assignor.)  
 General Motors Corporation. (See Griswold, Fred C., assignor.)  
 General Motors Corporation. (See Harbour, Albert S., assignor.)  
 General Motors Corporation. (See Hertrich, F. W., and Cataline, assignors.)  
 General Motors Corporation. (See Holden, Fenn M., assignor.)  
 General Motors Corporation. (See Hunt, J. H., and Millar, assignors.)  
 General Motors Corporation. (See Hunt, Ormond E., assignor.)  
 General Motors Corporation. (See Hutchinson, Philip H., assignor.)  
 General Motors Corporation. (See Jack, Robert K., assignor.)  
 General Motors Corporation. (See Johnson, Frank, assignor.)  
 General Motors Corporation. (See Jones, F. E., and McConkey, assignors.)  
 General Motors Corporation. (See Jones, Joseph W., assignor.)  
 General Motors Corporation. (See Kennington, William O., assignor.)  
 General Motors Corporation. (See Knoth, Conrad, assignor.)  
 General Motors Corporation. (See Kull, Walter A., assignor.)  
 General Motors Corporation. (See Lang, H. O., and McGeorge, assignors.)  
 General Motors Corporation. (See Larzeleré, Charles F., assignor.)  
 General Motors Corporation. (See Lee, Roger K., assignor.)  
 General Motors Corporation. (See Lewellen, Albert R., assignor.)  
 General Motors Corporation. (See Manning, William H., assignor.)  
 General Motors Corporation. (See Martin, William L., assignor.)  
 General Motors Corporation. (See McCuen, Charles L., assignor.)  
 General Motors Corporation. (See McNeil, Robert L., assignor.)  
 General Motors Corporation. (See Menges, Albert C., assignor.)  
 General Motors Corporation. (See Midgley, Thomas, jr., assignor.)  
 General Motors Corporation. (See Midgley, T., jr., Hochwalt, and Thomas, assignors.)  
 General Motors Corporation. (See Mobley, Claud S., assignor.)  
 General Motors Corporation. (See Olivier, Herman C., assignor.)  
 General Motors Corporation. (See Parker, Guy E., assignor.)  
 General Motors Corporation. (See Phillips, William M., assignor.)  
 General Motors Corporation. (See Reuter, Irving J., assignor.)  
 General Motors Corporation. (See Richard, Eugene C., assignor.)  
 General Motors Corporation. (See Rodd, William C., assignor.)  
 General Motors Corporation. (See Rothrock, George L., assignor.)  
 General Motors Corporation. (See Schwarze, Herman, assignor.)  
 General Motors Corporation. (See Schwarze, H., and Holden, assignors.)  
 General Motors Corporation. (See Seaholm, Ernest W., assignor.)  
 General Motors Corporation. (See Short, Charles R., assignor.)  
 General Motors Corporation. (See Smarr, Benjamin M., assignor.)  
 General Motors Corporation. (See Stahlhuth, Arthur H., assignor.)  
 General Motors Corporation. (See Steinmann, Walter assignor.)  
 General Motors Corporation. (See Sterling, Claude H., assignor.)  
 General Motors Corporation. (See Stevens, Herbert, C. M., assignor.)  
 General Motors Corporation. (See Stranahan, Samuel A., assignor.)  
 General Motors Corporation. (See Taub, Alex, assignor.)  
 General Motors Corporation. (See Taub, A., and Waller, assignors.)  
 General Motors Corporation. (See Taylor, Donald S., assignor.)  
 General Motors Corporation. (See Tenney, Perry L., assignor.)  
 General Motors Corporation. (See Tenney, P. L., and Fidler, assignors.)  
 General Motors Corporation. (See Tormyn, Herman, assignor.)  
 General Motors Corporation. (See Trumble, J. T., assignor, and Winchester.)  
 General Motors Corporation. (See Van Degrift, Thomas C., assignor.)  
 General Motors Corporation. (See Waters, Maurice, assignor.)  
 General Motors Corporation. (See Wells, Reginald E., assignor.)  
 General Motors Corporation. (See Whitecar, Frank, assignor.)  
 General Motors Corporation. (See Whitten, Frank A., assignor.)  
 General Motors Corporation. (See Wilson, Earl R., assignor.)  
 General Motors Corporation. (See Wilson, J. F., and Lewellen, assignors.)  
 General Motors Corporation. (See Wood, John G., assignor.)  
 General Motors Corporation. (See Zubaty, J., and Champion, assignors.)  
 General Motors Research Company, et al. (See Freedlander, Abraham L., assignor.)  
 General Motors Research Corporation. (See Aseltine, Fred E., assignor.)  
 General Motors Research Corporation. (See Asire, Horace W., assignor.)  
 General Motors Research Corporation. (See Boegehold, Alfred L., assignor.)  
 General Motors Research Corporation. (See Chase, Theron P., assignor.)  
 General Motors Research Corporation. (See Chase, T. P., and Lee, assignors.)  
 General Motors Research Corporation. (See Clements, Frank O., assignor.)  
 General Motors Research Corporation. (See Goodwin, George I., assignor.)  
 General Motors Research Corporation. (See Hallett, George E. A., assignor.)  
 General Motors Research Corporation. (See Hochwalt, Carroll A., assignor.)  
 General Motors Research Corporation. (See Hunt, John H., assignor.)  
 General Motors Research Corporation. (See Kamrath, Herbert G., assignor.)  
 General Motors Research Corporation. (See Kettering, Charles F., assignor.)  
 General Motors Research Corporation. (See Kettering, C. F., and Short, assignors.)  
 General Motors Research Corporation. (See King, Jesse G., assignor.)  
 General Motors Research Corporation. (See Lee, C. L., and Van Degrift, assignors.)  
 General Motors Research Corporation. (See Lee, Roger K., assignor.)  
 General Motors Research Corporation. (See Midgley, Thomas, jr., assignor.)  
 General Motors Research Corporation. (See Mougey, Harry C., assignor.)  
 General Motors Research Corporation. (See Short, Charles R., assignor.)  
 General Motors Research Corporation. (See Short, C. R., and Hughes, assignors.)  
 General Motors Research Corporation. (See Shutts, Leroy W., assignor.)  
 General Motors Research Corporation. (See Sterling, Claude H., assignor.)  
 General Motors Research Corporation. (See Summers, Caleb E., assignor.)  
 General Motors Research Corporation. (See Williams, Harry M., assignor.)  
 General Motors Research Corporation. (See Wirshing, R. J., and Faas, assignors.)  
 General Motors Research Corporation. (See Wood, Walter A., assignor.)  
 General Novelty Company, The. (See Hauff, Frederick, assignor.)  
 General Optical Co. (See Clement, Hans, assignor.)  
 General Optical Company. (See Clement, H., and Dey, assignors.)  
 General Outdoor Advertising Co. Inc. (See Seelen, Mark, assignor.)



- General Petroleum Corporation of California. (See Olsen, George F., assignor.)  
 General Petroleum Corporation of California. (See Roth, Ernest W., assignor.)  
 General Plate Company. (See Davignon, Victor D., assignor.)  
 General Plate Company. (See Kollmar, Emil, assignor.)  
 General Railway Signal Company. (See Bennett, Jerry, assignor.)  
 General Railway Signal Company. (See Brown, Paul D., assignor.)  
 General Railway Signal Company. (See Bushnell, Charles S., assignor.)  
 General Railway Signal Company. (See Cronk, Charles D., assignor.)  
 General Railway Signal Company. (See Day, Salisbury M., assignor.)  
 General Railway Signal Company. (See Dodgson, Frank L., assignor.)  
 General Railway Signal Company. (See Estwick, Charles F., assignor.)  
 General Railway Signal Company. (See Finnigan, G. P., and Varley, assignors.)  
 General Railway Signal Company. (See Hailes, William D., assignor.)  
 General Railway Signal Company. (See Henry, William S., assignor.)  
 General Railway Signal Company. (See Howe, Winthrop K., assignor.)  
 General Railway Signal Company. (See Howe, W. K., and Brown, assignors.)  
 General Railway Signal Company. (See Howe, W. K., and Bushnell, assignors.)  
 General Railway Signal Company. (See Leake, Richard C., assignor.)  
 General Railway Signal Company. (See Leake, R. C., and Estwick, assignors.)  
 General Railway Signal Company. (See Locke, William C., assignor.)  
 General Railway Signal Company. (See Peabody, James A., assignor.)  
 General Railway Signal Company. (See Prescott, Charles W., assignor.)  
 General Railway Signal Company. (See Preston, Neil D., assignor.)  
 General Railway Signal Company. (See Reichard, Wade H., assignor.)  
 General Railway Signal Company. (See Ross, Oscar A., assignor.)  
 General Railway Signal Company. (See Stephenson, James E., assignor.)  
 General Railway Signal Company. (See Taylor, Herbert B., assignor.)  
 General Railway Signal Company. (See Wenholz, Walter W., assignor.)  
 General Railway Signal Company. (See Wight, Sedgwick N., assignor.)  
 General Refractories Company. (See Anthony, James T., assignor.)  
 General Refractories Company. (See Heuser, Russell P., assignor.)  
 General Refractories Company. (See Himmelright, Raleigh J., assignor.)  
 General Refractories Company. (See Trostel, Louis J., assignor.)  
 General Rubber Company. (See McGavack, John, assignor.)  
 General Rubber Company. (See Rose, R. P., and Cude, assignors.)  
 General Rubber Company. (See Teague, Merwyn C., assignor.)  
 General Sales Company. (See Jones, Deyo, assignor.)  
 General Sales Company. (See Swanson, Harry J., assignor.)  
 General Seafoods Corporation. (See Barry, James J., assignor.)  
 General Spring Bumper Corporation. (See Jandus, Herbert S., assignor.)  
 General Spring Bumper Corporation. (See Jandus, H. S., and Flum, assignors.)  
 General Spring Bumper Corporation. (See Jandus, H. S., and Goodrich, assignors.)  
 General Spring Bumper Corporation. (See Jandus, H. S., and Keeler, assignors.)  
 General Spring Bumper Corporation. (See Jandus, H. S., and Morgan, assignors.)  
 General Spring Bumper Corporation. (See Jandus, H. S., and Rasmussen, assignors.)  
 General Spring Bumper Corporation. (See Jandus, H. S., and Van Husen, assignors.)  
 General Spring Bumper Corporation. (See Meyerhuber, William, assignor.)  
 General Steel Castings Corporation. (See Ashe, William O., assignor.)  
 General Steel Castings Corporation. (See Bartell, Harry R., assignor.)  
 General Steel Castings Corporation. (See Hallquist, Einar G., assignor.)  
 General Steel Castings Corporation. (See McCormick, John A., assignor.)  
 General Steel Castings Corporation. (See Pflager, Harry M., assignor.)  
 General Steel Castings Corporation. (See Sheehan, William M., assignor.)  
 General Street Signal Corporation. (See Ruddick, John J., assignor.)  
 General Synchronizing Corporation. (See Simons, Louis J., assignor.)  
 General Talking Pictures Corporation. (See De Forest, Lee, assignor.)  
 General Talking Pictures Corporation. (See de Forest, L., and Reynolds, assignors.)  
 General Tire and Rubber Company, The. (See Denmire, Harold A., assignor.)  
 General Tire and Rubber Company, The. (See Fleiter, A. J., and Bostwick, assignors.)  
 General Tire and Rubber Company, The. (See Iredell, Robert, assignor.)  
 General Tire and Rubber Company. (See Iredell, R., and Remark, assignors.)  
 General Tire and Rubber Company, The. (See Remark, Isidore J., assignor.)  
 General Weatherstrip Company. (See Lane, Alfred M., assignor.)  
 General Zeolite Company. (See Green, Walter H., assignor.)  
 General Zeolite Company. (See Stein, Milton F., assignor.)  
 General Zeolite Company. (See Wagner, Walter, assignor.)  
 Genest, Homer A., Danbury, Conn., assignor to United States Hat Machinery Corporation, New York, N. Y. Machine for and method of hardening hat bats. 1,738,494; Dec. 3.  
 Genest, Homer A., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Glass-shaping machine. 1,740,236; Dec. 17.  
 Gengelbach, Otto C., West Chicago, Ill. Oil burner. 1,698,129; Jan. 8.  
 Gennett, Maurice C. (See Wallace, Thomas, assignor.)  
 Gennis, John N., Houston, Tex. Water cooler. 1,740,585; Dec. 24.  
 Genova, Onofrio, Newburgh, N. Y. Cake decorator. 1,717,151; June 11.  
 Gensecke, Wilhelm, Bad Homburg, Germany. Apparatus for the distillation of fatty acids, glycerine, and the like. 1,713,431; May 14.  
 Gensheimer, Henry, Corona, N. Y. Sewing-machine binder. 1,726,556; Sept. 3.  
 Genter, Albert L., Salt Lake City, Utah, assignor to Genter Thickener Company. Continuous-filter thickening apparatus. 1,716,040; June 4.  
 Genter Thickener Company. (See Diamond, Randolph W., assignor.)  
 Genter Thickener Company. (See Cruickshank, Graham, assignor.)  
 Genter Thickener Company. (See Genter, Albert L., assignor.)  
 Gentil, Eugene, Paris, and P. L. A. Mathé, Meudon, France, assignors to The American Bicheroux Company. Speed-changing mechanism for glass sheets. 1,728,538; Sept. 17.  
 Gentile, Frank T. (See Maccarone, F., and Gentile.)  
 Gentile, Frank T., Brooklyn, N. Y. Mixer for drinks. 1,714,865; May 28.  
 Gentile, Marino, assignor of one-half to S. W. Weis, Chicago, Ill. Window envelope. 1,709,126; Apr. 16.  
 Gentry, Howard L., Louisville, Ky. Stopper. 1,705,666; Mar. 19.  
 Gentzen, Ludwig, Kortingsdorf, near Hanover, assignor to the firm of Gebr. Körting Aktiengesellschaft, Kortingsdorf, near Hanover-Linden, Germany. Compound pump operating means. 1,702,649; Feb. 19.  
 Genzlinger, Gustav, Huntingdon Valley, Pa., assignor to Franklin Railway Supply Company, New York, N. Y. Truck-centering device. 1,707,354; Apr. 2.  
 Geometric Tool Co., The. (See Bartelt, Ewald A., assignor.)  
 Geometric Tool Co. (See Breitenstein, Albert F., assignor.)  
 Geophysical Research Corporation. (See Karcher, John C., assignor.)  
 Georg, Otto, Dusseldorf, Germany. Coupling device. 1,699,838; Jan. 22.  
 Georg, Otto, Herdecke-Ruhr, Germany. Frictional screw press. 1,707,001; Mar. 26.  
 George, Anthony. (See MacMullin, R. B., and George.)  
 George, Anthony, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,718,285; June 25.  
 George, Anthony, Niagara Falls, and R. B. MacMullin, La Salle, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,713,650; May 21.  
 George, Anthony, and M. C. Taylor, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,718,284; June 25.  
 George, Charles H. (See Gerritsen, J., and George.)  
 George, Charles L., assignor to The Buckeye Traction Ditcher Co., Findlay, Ohio. Ditching machine. 1,714,306; May 21.  
 George, Charles L., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Bucket cleaner for trenching machines. 1,719,219; July 2.  
 George, David, Swansea, Wales. Method and apparatus for closing metallic packages. 1,730,070; Oct. 1.  
 George, Erwin R., Central City, Iowa. Egg tester. 1,739,899; Dec. 17.



- George, Harry A., West Hartford, Conn. Device for dispensing the contents of collapsible tubes. 1,710,658; Apr. 23.
- George, Harry H. (See Truett, V. S., and George.)
- George, Harry S., Massapequa, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Flame safety lamp. 1,702,048; Feb. 12.
- George, James, Biggleswade, England. Folding seat for motor cars. 1,729,669; Oct. 1.
- George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Rolling and controlling the temperature of hot metal stock. 1,736,076; Nov. 19.
- George, Jerome R., and E. J. Quinn, assignors to Morgan Construction Company, Worcester, Mass. Piling and handling of metal bars. 1,726,220; Aug. 27.
- George, Maude S., St. Louis, Mo. Contracting construction for garments and other articles. 1,729,265; Sept. 24.
- George, Richard F., Glendale, Calif. Internal-combustion engine. 1,701,807; Feb. 12.
- George, Robert H., Brooklawn, N. J. Drain valve. 1,728,676; Sept. 17.
- George, Robert H., Brooklawn, N. J. Drain valve. 1,728,677; Sept. 17.
- George, Robert H., Brooklawn, N. J. Drain valve. 1,728,678; Sept. 17.
- George, Ross F., Seattle, Wash. Noiseless switch. 1,720,395; July 9.
- George, Walter D., Tuscola, Ill. Ironing board. 1,741,052; Dec. 24.
- Georgevitch, Nicolas, Paris, France. Elastic coupling. 1,716,225; June 4.
- Georgiu, Peter J. (See Craig, J. M., and Georgiu.)
- Gerasthy, John P., Jersey City, N. J. Safety device for automobiles. 1,709,717; Apr. 16.
- Gérard, Auguste L. J. (See Sevaut, A. M., and Gérard.)
- Gérard, Charles W., Kansas City, Mo. Loose-leaf notebook or file device. 1,723,030; Aug. 6.
- Gérard, Roy H., San Francisco, Calif. Grade crossing. 1,699,886; Jan. 22.
- Gérard, Roy H., San Francisco, Calif., assignor, by mesne assignments, to Bowen Motors Company. Internal-combustion engine. 1,728,340; Sept. 17.
- Gerben, Charles, New York, N. Y. Emergency tire for vehicles. 1,733,959; Oct. 29.
- Gerber, Arthur B. (See Booth, C. F., and Gerber.)
- Gerberich, Clarence E., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Table top. 1,719,605; July 2.
- Gericch, Frederick A., assignor to Hammer-Bray Company, Oakland, Calif. Top-heating means for a combination stove. 1,730,882; Oct. 8.
- Gericch, Frederick A., Oakland, and W. M. Berry, Los Angeles, assignors to Hammer-Bray Company, Oakland, Calif. Kindling-burner installation. 1,728,165; Sept. 10.
- Gerdes, Adolf F., Berlin, Germany. Adjoint piece for telescope sights. 1,728,993; Sept. 24.
- Gerdes, Henry T., Lebanon, Pa., and A. F. Schumann, Baltimore, Md., assignors to Hauck Manufacturing Company, Brooklyn, N. Y. Burner apparatus. 1,740,296; Dec. 17.
- Gerding, George W., Glenside, assignor to Asbestos Fibre Spinning Company, North Wales, Pa. Asbestos glove. 1,730,763; Oct. 8.
- Gere, Ward N., Syracuse, assignor, by mesne assignments, to Eclipse Textile Devices Incorporated, Elmira Heights, N. Y. Spotting yarn. 1,724,015; Aug. 13.
- Gereke-Allen Carton Company. (See Patterson, William S., assignor.)
- Geretschlaeger, Joseph E., and F. P. Clark, St. Paul, Minn. Sanding machine. 1,713,599; May 21.
- Gergler, Karl, jr., Kreis Neustadt, Germany. Registering speedometer. 1,706,152; Mar. 19.
- Gerhardt, David, New Berlin, Ill. Stock-watering tank. 1,725,628; Aug. 20.
- Gerhardt, Gottfried W., Cape Girardeau, Mo. Punch holder for hammer handles. 1,712,343; May 7.
- Gérin, Jacques, Paris, France. Motor-propelling unit for motor vehicles. 1,702,865; Feb. 19.
- Gérin, Jacques, Paris, France. Rotary valve for explosion engine. 1,724,275; Aug. 13.
- Gerken, Howard S., assignor to Gravel Products Corporation, Buffalo, N. Y. Apparatus for washing, separating, and grading materials. 1,729,070; Sept. 24.
- Gerken, Tomas F., Miranda, S. Dak. Air cleaner for motor vehicles. 1,698,679; Jan. 8.
- Gerlach, Alexander, Lauterbach, assignor to D. Schanz, Oberschmitt, Germany. Ventilator. 1,697,389; Jan. 1.
- Gerlach, Alexander, Lauterbach, assignor, by mesne assignments, to D. Schanz, Oberschmitt, Hesse, Germany. Ventilator for buildings. 1,718,226; June 25.
- Gerlach, Charles W., assignor to Chicago Mill and Lumber Corporation, Chicago, Ill. Packing device. 1,728,753; Sept. 17.
- Gerlach, Josef E., Duisburg, Germany. Apparatus for charging tilting smelting furnaces. 1,707,937; Apr. 2.
- Gerlach, Leo G. (See Ruchie, Henry J., assignor.)
- Gerlach, Thomas A., Harvey, Ill. Spring-switch box. 1,726,819; Sept. 3.
- Gerlach, Thomas A., Harvey, Ill. Switch-throwing device. 1,731,002; Oct. 8.
- Germain, Herman, New York, N. Y. Sound record. 1,732,747; Oct. 22.
- Germain, Rodolphe A., Paris, France. Treatment of skins of animals containing calcified formations. 1,725,629; Aug. 20.
- Germay, Henry P. J., Liege, Belgium. Securing rails to metal sleepers. 1,712,384; May 7.
- Germer, Wilhelm E., Berlin-Charlottenburg, Germany. Arrangement for the measurement of large volumes of water for water turbines. 1,706,848; Mar. 26.
- Germoprez, John A., assignor to Steeldraulic Brake Corporation, Detroit, Mich. Brake. 1,725,907; Aug. 27.
- Gernandt Motor Corporation. (See Leonard, Howard M., assignor.)
- Gerneth, August W., and S. Harrall, Gainesville, Tex. Lock for meter covers. 1,725,908; Aug. 27.
- Gerngross, Otto, Berlin-Grünwald, and K. Rülke, Charlottenburg, assignors, by mesne assignments, to Kali-Chemie A. G., Berlin, Germany. Disinfectant, antiseptic, and healing medium. 1,739,586; Dec. 17.
- Gerngross, Otto, Berlin-Grünwald, and K. Rülke, Charlottenburg, assignors, by mesne assignments, to Kali-Chemie A. G., Berlin, Germany. Disinfectant, antiseptic, and medicament. 1,740,543; Dec. 24.
- Gernhardt, Berthold, Berlin, Germany. Rapid process for the automatic production of inspissated sugar fruits. 1,726,482; Aug. 27.
- Gero, William B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Electrode material. 1,707,002; Mar. 26.
- Gero, William B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Shaping filaments. 1,712,663; May 14.
- Gero, William B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Annealed thorium and making the same. 1,719,975; July 9.
- Gero, William B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Electron-emitting material and making the same. 1,731,244; Oct. 15.
- Gerrard, Alec J. (See Cranston, Albert E., assignor.)
- Gerrard, Alec J., assignor to The Gerrard Company, Inc., Chicago, Ill. Wire package binder. 1,739,962; Dec. 17.
- Gerrard, Alec J., and P. Wright, assignors to The Gerrard Company, Inc., Chicago, Ill. Wire package binder. 1,705,087; Mar. 12.
- Gerrard Company, The. (See Gerrard, Alec J., assignor.)
- Gerrard Company, The. (See Gerrard, A. J., and Wright, assignors.)
- Gerrard Company, The. (See Hintz, Leroy F., assignor.)
- Gerrard Company, The. (See Vaughn, John L., assignor.)
- Gerrie, Stanley S., Sault Ste. Marie, Mich. Press for paper tablets. 1,734,901; Nov. 5.
- Gerritson, Jacob Kankakee, Ill., and C. H. George, Cotoocook, N. H., assignors to Kingsbury & Davis Machine Company, South Coventry, Conn. Printing attachment for paper-box machines. 1,702,602; Feb. 19.
- Gerschütz, Severin. (See Strauss, S., and Gerschütz.)
- Gershon, Victor P. (See Grosvenor, W. M., and Gershon.)
- Gersman, Harvey M., Chicago, Ill. Expanded steel load-bearing member. 1,699,140; Jan. 15.
- Gersman, Harvey M., Buffalo, N. Y. Expanding metal. 1,737,998; Dec. 3.
- Gerson, John H., New Smyrna, Fla. Transmission. 1,704,890; Mar. 12.
- Gerson Stewart Corporation, Company, The. (See Goldrick, Albert R., assignor.)
- Gerstenkorn, Anthony, Brooklyn, N. Y. Machine for preparing rolled beef. 1,720,359; July 9.
- Gerstenslager, William H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cutting device for sheet fabrics. 1,724,348; Aug. 13.
- Gerstenzang, Leo, Long Beach, N. Y. Process and apparatus for manufacturing medical swabs. 1,721,815; July 23.
- Gerth, Felix, Berlin-Tempelhof, and H. Schumacher, Berlin-Lichterfelde, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High-frequency oscillator. 1,739,299; Dec. 10.
- Gerth, Lewis W. (See Dailey, J. A., and Gerth.)
- Gertz, Richard J., Oilmont, Mont. Electrode-adjusting mechanism for dehydrators. 1,731,620; Oct. 15.
- Gervais, Leo P. (See Cook, K. B., and Gervais.)
- Gervais, Wainwright B., assignor to Variety Fire Door Company, Chicago, Ill. Sheet-metal door. 1,712,107; May 7.
- Gesalman, Fred W., Greensburg, assignor to Pennsylvania Rubber Company, Jeannette, Pa. Tennis-ball-covering machine. 1,706,384; Mar. 19.
- Gesbeck, Charles H., Racine, Wis. Smoker's cabinet. 1,716,883; June 11.
- Geschickter, Charles F., Washington, D. C. Door latch. 1,704,316; Mar. 5.
- Geschickter, Charles F., Washington, D. C. Cremona bolt. 1,707,978; Apr. 9.
- Geschickter, Charles F., Washington, D. C. Hinge for sliding window screens. 1,728,539; Sept. 17.
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Böhm, Otto, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Esau, Abraham, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Findeisen, Paul F., assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hallesches. (See Jobst, Günther, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Kummer, Wilhelm, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Leib, August, assignor.)



- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Lock, Michael, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Meissner, Alexander, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Moser, Wilhelm, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Osnos, Mendel, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schaffer, Walter, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schmidt, Arthur, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schriever, Otto, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Schroeter, Fritz, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Sturner, Otto, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Tätz, Paul, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Arco, George, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Arco, G. G. and Osnos, assignors.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Bronk, Otto, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. (See Wurst, Walter, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Kummerer, Wilhelm, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Mayer, Emil, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Runge, Wilhelm, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Schaffer, Walter, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Schriever, Otto, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Schroeter, Fritz, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See von Bronk, Otto, assignor.)
- Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Wurst, Walter, assignor.)
- Gesellschaft für Elektrische Apparate m. b. H. (See Glüer, Bruno, assignor.)
- Gessner, David, Worcester, Mass. Machine for moistening cloth. 1,737,790; Dec. 3.
- Gest, Herman, et al. (See Harbord, Rolla C., assignor.)
- Gestetner, D. Limited. (See Clatworthy, John, assignor.)
- Gestring, William H. (See Kraemer, Frank, assignor.)
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric relay. 1,708,222; Apr. 9.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electromagnetic switch. 1,714,085; May 21.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 1,714,086; May 21.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Time delay under voltage release. 1,722,741; July 30.
- Getler, John F. (See Merritt, A. A., and Getler.)
- Getty, Robert W. (See Schiefer, P., and Getty.)
- Getz, Benjamin E., assignor to Getz Power Washer Co., Morton, Ill. Washing machine. 1,697,179; Jan. 1.
- Getz, Benjamin E., Morton, Ill. Closure for centrifugal extractors. 1,725,185; Aug. 20.
- Getz, Charles H. (See Bryce, J. W., and Getz.)
- Getz, John B., assignor to Interlocking Fence Co., Morton, Ill. Fence structure. 1,703,189; Feb. 26.
- Getz Power Washer Co. (See Getz, Benjamin E., assignor.)
- Getzinger, Louis. (See Tuck, L. J., and Getzinger.)
- Getzoff, Edward M., Elizabeth, N. J., assignor to International Motor Company, New York, N. Y. Vaporizer heat-controlling means. 1,701,917; Feb. 12.
- Geuder, Paeschke & Frey Company. (See Hois, Louis J., assignor.)
- Geuder, Paeschke & Frey Company. (See Kempter, Philip, assignor.)
- Geuder, George W. (See Brierley, William E., assignor.)
- Geurink, Bernard A., East Cleveland, Ohio. Gas burner. 1,700,886; Feb. 5.
- Gevlman, Jerome, assignor to Western Briar Pipe Company, Chicago, Ill. Smoking pipe. 1,727,763; Sept. 10.
- Geyer, Harvey D. (See Scott, A. W., and Geyer.)
- Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Rubber spring shackle. 1,708,219; Apr. 9.
- Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,708,220; Apr. 9.
- Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring coupling. 1,708,221; Apr. 9.
- Geyer, Harvey D., assignor to Dayton-Wright Company, Dayton, Ohio. Wind deflector. 1,718,288; June 25.
- Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Steering wheel. 1,719,008; July 2.
- Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Ice-cream-cabinet lid. 1,719,220; July 2.
- Geyer, Harvey D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Transformable-type automobile body. 1,720,953; July 16.
- Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Handwheel with horn button mounted at center. 1,727,030; Sept. 3.
- Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,727,031; Sept. 3.
- Geyer, Harvey D., assignor to Inland Manufacturing Company, Dayton, Ohio. Unitary double stopper. 1,730,202; Oct. 1.
- Geyser Instantaneous Water Heater Co. (See Antonelli, Orazio J., assignor.)
- Geyser, Mathilde T., New York, N. Y. Tail light for vehicles. 1,707,003; Mar. 26.
- Geyser, Mathilde T., New York, N. Y. Flexible tail light for vehicles. 1,738,770; Dec. 10.
- Ghadijli, Dinshah P., Malaga, N. J. Electric thermometer. 1,724,469; Aug. 13.
- Gherassimoff, Nicolas, Le Vesinet, France. Power-transmitting mechanism for automobiles and other purposes. 1,707,393; Apr. 2.
- Gherassimoff, Nicolas, Le Vesinet, assignor of one-half to E. Rivoche, Paris, France. Metal-covered pneumatic tire. 1,709,718; Apr. 16.
- Ghisleri, Joseph, Vincennes, France. Sordino for reed musical instruments. 1,733,058; Oct. 22.
- Giacopazzi, Milo E., Birmingham, Ala. Massaging device. 1,710,051; Apr. 23.
- Giacopini, August, Torrington, Conn. Cigar piercer. 1,734,620; Nov. 5.
- Gialdini, Bruno T., assignor to Diebold Safe & Lock Company, Canton, Ohio. Vault door. 1,712,000; May 7.
- Giambra, Gandolfo, Paterson, N. J. Automatic serving device for restaurants. 1,739,900; Dec. 17.
- Giampietro, Emilio, La Forma, Italy. Composite plug for bottles. 1,722,285; July 30.
- Giampolini, Victor J., San Francisco, Calif. Vacuum washer and cleaner. 1,711,380; Apr. 30.
- Gianelloni, Sabin J., Jr., Baton Rouge, La. Stencil unit and assembling the same. 1,708,968; Apr. 16.
- Gianera, Peter A., Torrance, Calif. Child's scooter. 1,697,526; Jan. 1.
- Giannelli, Odoardo, Empoli, Italy. Water-tube boiler. 1,713,176; May 14.
- Gibb, John A., New York, N. Y., assignor to Petroleum Derivatives Incorporated of Maine, Portland, Me. Condenser. 1,727,403; Sept. 10.
- Gibbons, Harold R., Chatham, N. J., assignor to General Motors Corporation, Detroit, Mich. Car-truck construction. 1,726,557; Sept. 3.
- Gibbons, Harold R., Chatham, N. J., assignor to General Motors Corporation, Detroit, Mich. Assembling bearings. 1,736,959; Nov. 26.
- Gibbons, William J., Philadelphia, Pa. Nut and bolt locking device. 1,707,931; Apr. 2.
- Gibbons, William J., Philadelphia, Pa. Nut lock. 1,707,932; Apr. 2.
- Gibbons, William J., Philadelphia, Pa. Locking device for screws and the like. 1,707,933; Apr. 2.
- Gibbons, Willis A. (See Bradley, C. E., and Gibbons.)
- Gibbs, Cecil R. (See Rose, W. V., and Gibbs.)
- Gibbs, Charles R. (See Clinch, C. G., Rigabar, and Gibbs.)
- Gibbs, D. & W., Limited. (See Knight, E. A., and Folkes, assignors.)
- Gibbs, Frederick H., Brooklyn, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Container car. 1,699,528; Jan. 22.
- Gibbs, Frederick H., Brooklyn, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Container car. 1,699,529; Jan. 22.
- Gibbs, George E., assignor to American Reinforced Paper Company, Attleboro, Mass. Roving-feeding mechanism. 1,727,764; Sept. 10.
- Gibbs, Jesse B., Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company. Constant-current transformer. 1,709,786; Apr. 16.
- Gibbs, John R., New York, N. Y., assignor to Gibbs Wahlert Mask Co., Inc. Respirator. 1,710,160; Apr. 23.
- Gibbs, Judson E., Rock River, Wyo. Detonating device. 1,709,127; Apr. 16.
- Gibbs, Judson E., Rock River, Wyo. Animal heater. 1,722,569; July 30.
- Gibbs, Judson E., Rock River, Wyo. Producing intermittent flares. 1,730,815; Oct. 8.
- Gibbs, Leon M., Birmingham, Ala., assignor to Two-Car Transportation Company. Method and apparatus for conducting and making records and reports of transportation of railroad cars. 1,741,229; Dec. 31.
- Gibbs Manufacturing Company, The. (See Kinnard, Robert M., assignor.)
- Gibbs Manufacturing Company, The. (See Rost, William J., assignor.)
- Gibbs, Robert A., Jr. (See Voehringer, J. K., Jr., and Gibbs.)
- Gibbs, Rufus C., Vancouver, British Columbia, Canada. Match striker. 1,720,831; July 16.
- Gibbs Wahlert Mask Co. (See Gibbs, John R., assignor.)
- Gibbs, Walter A., Holly Oak, Del. Animal trap. 1,709,719; Apr. 16.
- Gibbs, Walter A., Holly Oak, Del. Dredger. 1,728,051; Sept. 10.



- Gibbs, William H., Milwaukee, Wis. Hammer. 1,737,497; Nov. 26.
- Gibbs, William J., Brooklyn, N. Y. Conveyer mechanism. 1,712,762; May 14.
- Gibney, James J., assignor, by mesne assignments, to Universal Products Corporation, Minneapolis, Minn. Humidifier. 1,712,204; May 7.
- Gibney, Joseph W., assignor to Russell, Burdall & Ward Bolt & Nut Company, Port Chester, N. Y. Machine for magazing nuts. 1,719,221; July 2.
- Gibney, Robert F., Hackensack, N. J. Polishing machine. 1,737,416; Nov. 26.
- Giboney, Fannie, Bakersfield, Calif. Fruit masher and strainer. 1,721,340; July 16.
- Gibson, Albert E., Electra, Tex. Insect trap. 1,724,797; Aug. 13.
- Gibson, Alfred H., Harrogate, England. Apparatus for supplying liquid fuel to internal-combustion engines and for analogous purposes. 1,700,794; Feb. 5.
- Gibson Art Company. (See Gibson, William H., assignor.)
- Gibson Art Company, The. (See Willmore, Merton W., assignor.)
- Gibson, C. A., et al. (See Stovall, Smith L., assignor.)
- Gibson, Carl W., Dallas, Tex. Gas burner. 1,712,881; May 14.
- Gibson, Casey M. and G., Detroit, Mich. Clutch-lining arrangement. 1,702,000; Feb. 12.
- Gibson, Cora M., St. Louis, Mo. Household utensil. 1,713,275; May 14.
- Gibson, Francis W., West Roxbury, Mass. Spring clip. 1,711,730; May 7.
- Gibson, Francis W., West Roxbury, Mass. Container. 1,738,821; Dec. 10.
- Gibson, Francis W., West Roxbury, Mass., assignor to The H. D. Beach Company, Coshocton, Ohio. Display rack. Des. 79,055; July 23.
- Gibson, Frank L., Brownsville, Vt., and G. S. Hayward, Plainfield, N. H. Magneto. 1,703,420; Feb. 26.
- Gibson, Franklin C., Fairfax County, Va., assignor to El-lott-Fisher Company. Form-collating means. 1,736,260; Nov. 19.
- Gibson, Franklin W., Seattle, Wash. Skiving machine. 1,723,233; Aug. 6.
- Gibson, Frederick W., Chicopee, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Preserving-jacket assembly on plugged inflated playing balls and preparing the same. 1,713,755; May 21.
- Gibson, George. (See Gibson, Casey M. and G.)
- Gibson, George H., Upper Montclair, N. J. Steam purifier. 1,730,133; Oct. 1.
- Gibson, George H., Upper Montclair, N. J. Furnace-regulating system. 1,735,678; Nov. 12.
- Gibson, George M., assignor to Woodrow Washing Machine Company, Pella, Iowa. Washing-machine casing. Des. 77,685; Feb. 12.
- Gibson, George T., Des Moines, Iowa. Electrical service and meter cabinet. 1,740,730; Dec. 24.
- Gibson, Guy T., New Rochelle, assignor to Guy T. Gibson, Incorporated, New York, N. Y. Bottle. Des. 77,826; Feb. 26.
- Gibson, Guy T., Incorporated. (See Gibson, Guy T., assignor.)
- Gibson, Harry L., assignor to Eckhart Company, Port Washington, Wis. Des. 79,800; Nov. 5.
- Gibson, Hugo C., Philadelphia, Pa. Heating apparatus. 1,710,306; Apr. 23.
- Gibson, Hugo C., Philadelphia, and E. A. Corbin, jr., Swarthmore, Pa. Rotary valve mechanism for internal-combustion engines. 1,711,781; May 7.
- Gibson, Hugo C., Philadelphia, Pa., assignor of one-half to E. H. Fairbanks, Merchantville, N. J. Lubrication fitting. 1,740,297; Dec. 17.
- Gibson, J. F., jr., et al. (See Stovall, Smith L., assignor.)
- Gibson, James, Los Angeles, Calif. Stroke-indicating attachment for golf clubs. 1,712,609; May 14.
- Gibson, James W., Denver, Colo. Mop. 1,702,825; Feb. 19.
- Gibson, Jefferson C., Chicago, Ill. Combustion control. 1,722,415; July 30.
- Gibson, John C., assignor to The Pioneer Rubber Company, Willard, Ohio. Coloring toy balloons. 1,720,594; July 9.
- Gibson, Joseph, Whittlesea, Victoria, Australia. Hand-saw. 1,698,788; Jan. 15.
- Gibson, Louis D. (See Aldrich, E. L., and Gibson.)
- Gibson, Louis D., assignor to The W. F. Tubbs Company, Norway, Me. Toe clip for ski binding. 1,735,922; Nov. 19.
- Gibson, Marshall D., Webster Groves, Mo. Can opener. 1,737,713; Dec. 3.
- Gibson, Percy O., Kokomo, Ind. Roller skate. 1,711,451; Apr. 30.
- Gibson, Raymond B., Detroit, Mich. Windshield wiper. 1,720,832; July 16.
- Gibson, Samuel G., Bronxville, assignor to Thermokept Corporation, New York, N. Y. Hinge for cans and forming said hinges. 1,726,103; Aug. 27.
- Gibson, Victor L., Los Angeles, Calif. Dehydrator. 1,727,504; Sept. 10.
- Gibson, William H., assignor to Gibson Art Company, Cincinnati, Ohio. Card-deckling machine. 1,739,300; Dec. 10.
- Gida, Caesar, and L. Jacopi, Colma, Calif. Aeroplane. 1,702,634; Feb. 19.
- Giddings & Lewis Machine Tool Co. (See Kraut, Hans B., assignor.)
- Gideon, William P., Birmingham, Ala. Backband. 1,737,307; Nov. 26.
- Giddis, George F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone or other booth. 1,733,121; Oct. 29.
- Gidley, Columbus M. (See Taylor, W. A., and Gidley.)
- Gidley, Columbus M., Corsicana, Tex. Elevator. 1,737,369; Nov. 26.
- Giebe, Erich, and A. Scheibe, Charlottenburg, Berlin, Germany, assignors to Radio Corporation of America. Determining electrical axes in crystals. 1,720,659; July 16.
- Giehler, Fred, Holyoke, Mass. Drafting board. 1,736,342; Nov. 19.
- Giehler, Fritz, Chemnitz, Germany. Shuttle. 1,730,931; Oct. 8.
- Gielow, Christian, Dusseldorf-Oberkassel, Germany. Rolling mill. 1,725,630; Aug. 20.
- Glenger, Albert C., Chaloquin, Oreg. Airplane construction. 1,727,542; Sept. 10.
- Gier, John R., jr. (See Baker, H. M., and Gier.)
- Gies, Alfred J. (See Abrams, M. L., and Gies.)
- Giese, Herbert F., Kansas City, Mo. Riding amusement device. 1,731,621; Oct. 15.
- Giese, Karl. (See Böhm, K., and Giese.)
- Giese, Otto E., New York, N. Y. Water and beverage cooler. 1,711,494; May 7.
- Gieseler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Expansion joint. 1,726,483; Aug. 27.
- Giesey, J. H. (See Sorensen, Sam, assignor.)
- Gieske, Joseph H., assignor of one-third to E. F. Roddy, St. Paul, Minn. Slug detector. 1,732,161; Oct. 15.
- Gieskieng, William A., Salida, Colo. Journal-bearing lubricator. 1,697,113; Jan. 1.
- Giesler, Walter F., Tulsa, Okla. Wall construction. 1,723,930; Aug. 6.
- Giesler, Jean V. (See Fulton, W. M., and Giesler.)
- Giesler, Jean V., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Fuel-feeding system. 1,708,306; Apr. 9.
- Giesler, Jean V., Knoxville, and S. Hinshaw, Fountain City, assignors, by mesne assignments, to The Sylphon Fulton Company, Knoxville, Tenn. Thermostatically-controlled mixer. 1,712,610; May 14.
- Gietmann, Albert. (See Schuler, H., and Gietmann.)
- Gielt, Albert B., and R. W. Knowles, assignors to The White Company, Cleveland, Ohio. Sectional stand. 1,696,641; Jan. 1.
- Giffen, Robert M., Klamath Falls, Oreg. Hydraulic actuating device for aircraft. 1,716,121; June 4.
- Gifford, Charles P., Chicago, Ill. Frame for building openings. 1,721,950; July 23.
- Gifford, Harry E., Medford, Mass. Combination cigarette holder and buttonhook. 1,710,020; Apr. 23.
- Gifford-Wood Company. (See Bennett, Azzel C., assignor.)
- Gifford-Wood Company. (See Harding, Howard V., assignor.)
- Gifford-Wood Company. (See Karr, E. M., and Boucher, assignors.)
- Gifford-Wood Company. (See Towne, Willis H., assignor.)
- Gift House, Inc., The. (See Cohen, Morris, assignor.)
- Gigli, Alberto A., Birmingham, England. Double-acting internal-combustion engine. 1,697,723; Jan. 1.
- Giglio, Eugene, New York, N. Y. Razor-blade-stropping holder. 1,728,604; Sept. 17.
- Gignoux, Frank C. (See Stokes, J. C., and Gignoux.)
- Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
- Gilbert, Albert D., West Bend, Wis. Rope controller. 1,710,697; Apr. 30.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Bowl for a fruit-juice extractor. Des. 79,356; Sept. 10.
- Gilbert, Alfred C., assignor by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Mixing apparatus. 1,698,363; Jan. 8.
- Gilbert, Alfred C., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Electric heater. 1,712,001; May 7.
- Gilbert, Alfred C., North Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Construction toy. 1,724,470; Aug. 13.
- Gilbert, Alfred C., Hamden, assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Construction toy. 1,732,799; Oct. 22.
- Gilbert, Alfred C., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Toy building construction. 1,736,310; Nov. 19.
- Gilbert, Alva B. (See Edwards, H. J., and Gilbert.)
- Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
- Gilbert, Charles A., La Porte, Ind., assignor, by mesne assignments, to Lyon & Healy, Inc., Chicago, Ill. Saxophone octave key. 1,705,563; Mar. 19.
- Gilbert, Charles T., et al, executors. (See Gilbert, Henry J.)
- Gilbert, Clarence E., Stillwater, Minn. Road grader. 1,723,931; Aug. 6.
- Gilbert, Ernest H. (See Coburn, W. H., and Kiernan, assignors.)



- Gilbert, Ernest M., Wyomissing, Pa., assignor to W. S. Barstow & Company. Method and apparatus for development of power. 1,732,009; Oct. 15.
- Gilbert, Harvey N., La Salle, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Carbonaceous material and making same. 1,714,165; May 21.
- Gilbert, Harwood J., et al, executors. (See Gilbert, Henry J.)
- Gilbert, Henry, Philadelphia, Pa. Aluminum welding rod. 1,728,052; Sept. 10.
- Gilbert, Henry H., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Fuel-shut-off valve. 1,718,644; June 25.
- Gilbert, Henry J., deceased; A. Boutell, C. T. and H. J. Gilbert, executors, assignors to Saginaw Manufacturing Company, Saginaw, Mich. Lock for ironing boards and the like. 1,732,800; Oct. 22.
- Gilbert, Henry J., assignor to Saginaw Manufacturing Co., Saginaw, Mich. Folding ironing table. 1,738,886; Dec. 10.
- Gilbert, Horace G., Youngstown, Ill. Knife rack. 1,708,612; Apr. 9.
- Gilbert, Israel B., Cincinnati, Ohio. Regrinding valve. 1,711,593; May 7.
- Gilbert, Israel B., and W. G. Meiners; said Gilbert assignor to F. Meiners, Cincinnati, Ohio. Collecting and delivering device. 1,718,414; June 25.
- Gilbert, Jesse M., and M. E. Brookshire, Los Angeles, Calif. Washbasin equipment for automobiles. 1,731,567; Oct. 15.
- Gilbert, John J., Douglaston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine signaling cable. 1,700,476; Jan. 29.
- Gilbert, John J., Douglaston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine telegraph system. 1,724,923; Aug. 20.
- Gilbert, John J., Douglaston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Treating loaded submarine cables. 1,730,971; Oct. 8.
- Gilbert, John J., Douglaston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine duplex telegraph system. 1,738,292; Dec. 3.
- Gilbert, John J., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-frequency submarine cable. 1,705,913; Mar. 19.
- Gilbert, Levi L., Muskegon, Mich., assignor to The Em-Dee Supply Company. Surgical operating cushion. 1,741,836; Dec. 31.
- Gilbert, Levi L., Portland, Oreg., assignor to The Em-Dee Supply Company. Maternity sheet. 1,741,837; Dec. 31.
- Gilbert, Levi L., Muskegon, Mich., assignor to The Em-Dee Supply Company. Maternity pad. 1,741,838; Dec. 31.
- Gilbert, Ralph H., New York, N. Y. Warning signal for automobiles. 1,729,071; Sept. 24.
- Gilbert, Samuel C., Hartsville, S. C. Flexible tie for plastic furnace linings. 1,736,704; Nov. 19.
- Gilbert, Valentine, Virginia City, Mont. Producing a low-alcohol beverage from beer. 1,717,920; June 18.
- Gilbert, Victor G. W., London, England, assignor, by mesne assignments, to American La France and Foamite Corporation. Fire extinguisher. 1,736,153; Nov. 19.
- Gilbert, Walter B., Albuquerque, N. Mex. Smoking stand. Des. 79,711; Oct. 29.
- Gilbert, Walter, St. Louis, Mo. Blow-out boot. 1,712,265; May 7.
- Gilbert, Woodland H., St. Paul, Minn. Vending machine. 1,705,859; Mar. 19.
- Gilbough, Benjamin G., San Gabriel, Calif. Spring-leaf cover roller. 1,699,352; Jan. 15.
- Gilbough, Benjamin G., San Gabriel, Calif. Cover for leaf springs and method for making. 1,705,183; Mar. 12.
- Gilbough, Benjamin G., Los Angeles, Calif. Spring-lubricating device. 1,705,758; Mar. 19.
- Gilchrist, Clarence F. (See Patterson, H. R., and Gilchrist.)
- Gilchrist, Clarence F., assignor, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio. Switch. 1,735,112; Nov. 12.
- Gilchrist & Company. (See Shafor, Ralph W., assignor.)
- Gilchrist & Company. (See Wetherbee, Ashur U., assignor.)
- Gilchrist Company, The. (See Cox, John W., assignor.)
- Gilchrist Company, The. (See Gilchrist, Raymond B., assignor.)
- Gilchrist, Leonard J., Philadelphia, Pa., assignor to M. J. Gilchrist. Window fitting. 1,725,451; Aug. 20.
- Gilchrist, Mary J. (See Gilchrist, Leonard J., assignor.)
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Drink mixer. 1,700,729; Jan. 29.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Electric drink mixer. 1,700,730; Jan. 29.
- Gilchrist, Raymond B., assignor to The Gilchrist Company, Newark, N. J. Drink mixer. 1,739,635; Dec. 17.
- Gilchrist, William A., New York, N. Y. Apparatus for and process of mixing. 1,720,549; July 9.
- Gilchrist, William A., New York, N. Y. Fuel storage and reclaiming system. 1,730,884; Oct. 8.
- Gilde, Ernst A., Union City, N. J. Clothesline support. 1,733,534; Oct. 29.
- Gildea, James F., et al. (See Krödel, Frank J., assignor.)
- Gildea, William E., Chicago, Ill. Safety attachment for wringers. 1,737,714; Dec. 3.
- Gildehaus, Richard F., jr., Dallas, Tex. Vaporizer and fuelizer for internal-combustion engines. 1,734,723; Nov. 5.
- Giles, David J., assignor to Latrobe Electric Steel Company, Latrobe, Pa. Ingot mold. 1,703,442; Feb. 26.
- Giles, Harvey, Brooklyn, assignor to Artemas Ward, Inc., New York, N. Y. Vending machine. 1,721,150; July 16.
- Giles, Henry H. (See Inglefield, C. L., and Giles.)
- Giles, Isaac F., Yonkers, assignor to Ite Electric Manufacturing Corporation, Tuckahoe, N. Y. Insulator for electric connections. 1,706,153; Mar. 19.
- Giles, Isaac V. (See Barsky, G., and Giles.)
- Giles, Lloyd, Los Angeles, Calif. Slug eliminator. 1,730,339; Oct. 1.
- Giles, Reed, and R. McWilliams, Washington, Pa., assignors to Hazel-Atlas Glass Co., Wheeling, W. Va. Automatic threading chuck. 1,699,186; Jan. 15.
- Gillfillan, John McG., Trenton, N. J., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Combination holder for tumbler brushes, and collapsible tube. Des. 79,554; Oct. 8.
- Gillfillan, John M., Trenton, N. J., assignor to The Trumbull Electrical Manufacturing Company, Plainville, Conn. Wall receptacle. 1,726,221; Aug. 27.
- Gilford, Charles F., Concord, N. H. Automatic advertising machine. 1,716,552; June 11.
- Giljohann, Augusta, et al. (See Miller, Henry C., assignor.)
- Gilkerson, Roland H., Watertown, Wis. Eyeshield. 1,720,548; July 9.
- Gilkey, Herbert L., New Bedford, Mass. Casket cover. 1,719,364; July 2.
- Gilkison, E. P., & Sons Company. (See Gilkison, Edward R., assignor.)
- Gilkison, Edward R., assignor to E. P. Gilkison & Sons Company, Terre Haute, Ind. Tent structure. 1,707,960; Apr. 2.
- Gilkison, Edward R., assignor to E. P. Gilkison & Sons Company, Terre Haute, Ind. Trailer leg. 1,727,430; Sept. 10.
- Gill, Albert W. (See Mertz, Charles C., assignor.)
- Gill, Charles I., assignor of one-half to A. S. Smith, Edenton, N. C. Tobacco heater. 1,728,053; Sept. 10.
- Gill, Donald W., and M. P. Orr, assignors to The Frank F. Taylor Company, Norwood, Ohio. Toy vehicle wheel and assembling same. 1,708,969; Apr. 16.
- Gill, Ernest W. B., and R. H. Donaldson, Oxford, England; said Gill assignor to Radio Corporation of America. Thermionic frequency-changing or modulating device. 1,702,001; Feb. 12.
- Gill, G. P., et al. (See Febles, Ramon, assignor.)
- Gill Glass and Fixture Company. (See Aglow, Harry, assignor.)
- Gill, Harry F. (See Weichelt, C. L., and Gill.)
- Gill, James H., Steubenville, Ohio. Radiant for gas stoves. Des. 79,327; Sept. 3.
- Gill, James P., assignor to Vanadium Alloy Steel Company, Latrobe, Pa. Alloy steel. 1,727,282; Sept. 3.
- Gill, Merle A., Pinewood, Minn. Outside feeding device. 1,705,154; Mar. 12.
- Gill, Reuben O., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle testing device. 1,703,031; Feb. 19.
- Gillam, Wallace R. (See Fisher, J. F., and Gillam.)
- Gillar, Valerian, Vienna, Austria. Iron-frame window. 1,703,230; Feb. 26.
- Gillen, George A., Jersey City, N. J., assignor to Gillen Laboratories Corporation, New York, N. Y. Cushion wheel. 1,715,751; June 4.
- Gillen, George A., assignor to Equipment & Supply Company, Inc., New York, N. Y. Fuel-feeding device for internal-combustion engines. 1,722,791; July 30.
- Gillen, George A., New York, N. Y., assignor to Equipment & Supply Company, Inc. Locking mechanism for motor vehicles. 1,726,530; Sept. 3.
- Gillen, George A., Jersey City, N. J., assignor to Gillen, Kimmey, Baker, Syndicate Inc., New York, N. Y. Vacuumizer. 1,730,419; Oct. 8.
- Gillen, George A., Jersey City, N. J., assignor to Gillen, Kimmey, Baker, Syndicate, Incorporated, New York, N. Y. Coincidental lock for motor vehicles. 1,730,420; Oct. 8.
- Gillen, George A., Jersey City, N. J., assignor to Gillen, Kimmey, Baker Syndicate Inc., New York, N. Y. Automobile wheel lock. 1,738,699; Dec. 10.
- Gillen, George A., Jersey City, N. J., assignor to Gillen, Kimmey, Baker Syndicate, Inc., New York, N. Y. Condenser. 1,741,152; Dec. 31.
- Gillen, George A., New York, N. Y., assignor to Great Western Fuse Co. Inc. Electrical connector. 1,742,160; Dec. 31.
- Gillen, George A., New York, N. Y., assignor to Great Western Fuse Co. Inc. Electrical connector. 1,742,161; Dec. 31.
- Gillen, Kimmey, Baker Syndicate Inc. (See Gillen, George A., assignor.)
- Gillen Laboratories Corporation. (See Gillen, George A., assignor.)
- Gillespie, Alexander, Pittsfield, Ill. Centrifugal feeding device. 1,702,341; Feb. 19.
- Gillespie, Alexander, Pittsfield, Ill. Tempering wheat. 1,740,892; Dec. 24.
- Gillespie, Bee K. (See Wilde, L. J., and Gillespie.)
- Gillespie, Holden T., Fort Dodge, Iowa. Syringe container. 1,711,594; May 7.



- Gillespie, John W., Cincinnati, Ohio. Stringed musical instrument. 1,728,754; Sept. 17.
- Gillespie, Loren L., Hopkins, Mo. Egg-crate-filling apparatus. 1,735,042; Nov. 12.
- Gillespie, Loren L., Hopkins, Mo. Egg-handling apparatus. 1,741,929; Dec. 31.
- Gillespie, Milton L., Los Angeles, Calif. Folding-table construction. 1,709,210; Apr. 16.
- Gillespie, Nellie, Detroit, Mich. Combination abdominal supporter and girdle. 1,696,909; Jan. 1.
- Gillespie, Ray F., Hamilton, Ohio. Nut lock. 1,714,952; May 28.
- Gillespie, Richard L., Barberton, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Manufacturing inner tubes and mandrels to be used therefor. 1,718,645; June 25.
- Gillespie, Richard L., Barberton, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Making inner tubes. 1,718,646; June 25.
- Gillespie, Robert J., assignor of one-fourth to H. Randazzo, one-fourth to A. Landry, and one-fourth to B. Jacobson, St. Martinsville, La. Shower bathing apparatus. 1,719,696; July 2.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Extensible frame for automobile awnings. 1,717,921; June 18.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Automobile awning and foldable frame. 1,717,922; June 18.
- Gillet, Alexis F., assignor to The Jubilee Manufacturing Company, Omaha, Nebr. Towel holder. 1,727,200; Sept. 3.
- Gillet, Alexis F., assignor to The Jubilee Manufacturing Company, Omaha, Nebr. Antiskid chain. 1,731,850; Oct. 15.
- Gillet, Alexis F., Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Traction chain. 1,731,851; Oct. 15.
- Gillett, Benjamin B., Kansas City, Mo., assignor to Blue Point Tool Company, Chicago, Ill. Open-end wrench. Re17,417; Aug. 27.
- Gillett, Glenn D. (See Espenschied, L., and Gillett.)
- Gillett, Frank B. (See Strachauer, F. W., and Gillett.)
- Gillett, Frank B. (See Williams, A. D., Gillett, and Clark.)
- Gillett, Frank B., Sacramento, and J. G. Lackey, Roseville, Calif. Locomotive smoke deflector. 1,724,276; Aug. 13.
- Gillette, King C., et al. (See Schmidt, Benjamin F., assignor.)
- Gillette, Robert T., Schenectady, N. Y., assignor to General Electric Company. Brazing alloys. 1,706,154; Mar. 19.
- Gillette Rubber Company. (See Hutchens, Ralph W., assignor.)
- Gillette Rubber Company. (See Krause, Arnold R., assignor.)
- Gillette Rubber Co. (See Krause, A. R., and Hirsch, assignors.)
- Gillette Rubber Company. (See Krause, A. R., and Hutchens.)
- Gillette Rubber Company. (See Krause, A. R., and Hutchens, assignors.)
- Gillette Schmidt Corporation. (See Schmidt, Benjamin F., assignor.)
- Gillette-Vibber Co., The. (See Vibber, Wheeler H., assignor.)
- Gillham, Robert. (See Addison, T., Gillham, and Langen.)
- Gillhausen, Werner, Dortmund, Germany, assignor, by mesne assignments, to Centrifugal Pipe Corporation. Centrifugal casting. 1,733,661; Oct. 29.
- Gilliam, Charles W., jr., Ronda, N. C. Drink mixer. 1,708,266; Apr. 9.
- Gilliam, Garfield, Garrich, Ky. Fruit-picking device. 1,709,847; Apr. 23.
- Gilliam, James P., Los Angeles, assignor of one-half to H. W. Berkmeier, Glendale, Calif. Registering renewable plug fuse. 1,700,356; Jan. 29.
- Gilliam, James P., Los Angeles, Calif. Registering renewable plug fuses. 1,741,018; Dec. 24.
- Gilliean, Charles C., Brunswick, Ga. Condenser coil. 1,698,789; Jan. 15.
- Gillies, James H., Hobart, Tasmania, Australia. Head-lights of vehicles. 1,723,850; Aug. 6.
- Gillies, John A. (See Kennedy, A. D., and Gillies.)
- Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Spinning or twisting ring. 1,723,811; Aug. 6.
- Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Support for ring travelers. 1,724,471; Aug. 13.
- Gilligan, George H., assignor to U. S. Ring Traveler Company, Providence, R. I. Ring traveler. 1,728,540; Sept. 17.
- Gilliland, Rob L., Anthony, N. Mex., and H. McElhannon, Canutillo, Tex. Cotton-cleaning machine. 1,724,573; Aug. 13.
- Gillinder Brothers, Inc. (See Gillinder, Edwin B., assignor.)
- Gillinder, Edwin B., assignor to Gillinder Brothers, Inc., Port Jervis, N. Y. Transparent bowl. Des. 79,231; Aug. 20.
- Gillinder, Edwin B., assignor to Gillinder Brothers, Inc., Port Jervis, N. Y. Transparent bowl. Des. 80,172; Dec. 24.
- Gillinder, Edwin B., assignor to Gillinder Brothers, Inc., Port Jervis, N. Y. Reflector bowl for electric lamps. 1,741,693; Dec. 31.
- Gillings, Charles, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,705,462; Mar. 12.
- Gillings, Charles, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,705,831; Mar. 19.
- Gillings, Charles, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,705,832; Mar. 19.
- Gillings, Charles, and W. O. Passmore, Liverpool, England, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,741,514; Dec. 31.
- Gillis, Julius H., Elizabeth, N. J., assignor, by mesne assignments, to Anaconda Sales Company. Process and apparatus for making roofing material. 1,701,918; Feb. 12.
- Gillis, Leon W., Alderwood Manor, Wash. Thermionic tube socket. 1,733,535; Oct. 29.
- Gillis, Lyle N., Rose Crest, Va., assignor of one-half to The Floorola Corporation and one-half to E. J. Newcomer, Baltimore, Md. Wax distributor for floor polisher. 1,697,274; Jan. 1.
- Gilman, Charles, Plainfield, N. J., assignor to Massey Concrete Products Corporation, Chicago, Ill. Concrete cribbing. 1,733,790; Oct. 29.
- Gilman, Clarence C., Alhambra, Calif. Dirigible aircraft. 1,726,062; Aug. 27.
- Gilman, George W., assignor to Corona Pen Company, Inc., Janesville, Wis. Fountain pen. 1,726,432; Aug. 27.
- Gilman, Harold G. (See Wilson, G. M., and Fryor, assignors.)
- Gillman, John J., Chicago, Ill., assignor to Vento Steel Sash Company, Muskegon Heights, Mich. Window construction. Re17,389; July 30.
- Gilmer, L. H., Co. (See Gilmer, Ludwell H., assignor.)
- Gilmer, L. H., Co. of La., Inc. (See Gilmer, Ludwell H., assignor.)
- Gilmer, Ludwell H., Tacony, Pa., assignor to L. H. Gilmer Co. of La., Inc. Loom. 1,710,871; Apr. 30.
- Gilmer, Ludwell H., Tacony, assignor to L. H. Gilmer Co., Tacony, Philadelphia, Pa. Packing for hoods of automobiles. 1,727,201; Sept. 3.
- Gillmet, Thomas, Piercedfield, N. Y. Logging appliance. 1,741,292; Dec. 31.
- Gilmor, Horatio G., Washington, D. C. Anticreeper. Re17,314; June 4.
- Gilmor, Reginald E., Stamford, Conn., assignor, by mesne assignments, to The Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyroscopic compass. 1,709,395; Apr. 16.
- Gillrup, Harry S., Albert Lea, Minn. Automobile attachment. 1,719,051; July 2.
- Gilman, Albert E., assignor to King and Hamilton Company, Ottawa, Ill. Portable elevator. 1,718,227; June 25.
- Gilman, George H. (See Pierson, John A., assignor.)
- Gilman, George H., Belmont, Mass. Drilling machine. 1,740,813; Dec. 24.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company. Motor. 1,703,839; Feb. 26.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company. Rotary fluid-pressure motor. 1,738,645; Dec. 10.
- Gilman, George W., assignor to Corona Pen Company, Inc., Janesville, Wis. Fountain pen. 1,704,470; Mar. 5.
- Gilman, Harold A., et al. (See Cady, John A., assignor.)
- Gilman, John A., Seattle, Wash. Clamp for concrete forms. 1,717,446; June 18.
- Gilmard, Ernest, Laeken-Brussels, Belgium. Driving mechanism for stone-sawing machines. 1,716,122; June 4.
- Gilmartin, William A., Brooklyn, N. Y. Producing motion pictures. 1,715,230; May 28.
- Gilmont Products Corporation. (See Hopkins, Nevil M., assignor.)
- Gilmore, Charles B., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Window attachment. 1,740,586; Dec. 24.
- Gilmore, Forrest E., Tulsa, Okla. Fluid-pressure pump. 1,701,449; Feb. 5.
- Gilmore, James O., Dickerson Run, Pa. Rail-clamp tie plate. 1,727,640; Sept. 10.
- Gilmore, Lou S., Los Angeles, Calif. Kitchenette. 1,732,359; Oct. 22.
- Gilmore, Steele F., Indianapolis, Ind. Method and dental device for registering bites. 1,711,885; May 7.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. End door for automobile cars. 1,696,910; Jan. 1.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. End door for automobile cars. 1,713,898; May 21.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated metallic-plate structure. 1,729,340; Sept. 24.
- Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Corrugated metallic plate. 1,729,342; Sept. 24.
- Gilroy, Frank J., Buffalo, N. Y. Device for securing car doors. 1,708,223; Apr. 9.



- Gilroy, James J., assignor of one-half to F. S. Wydra, Kulpmont, Pa. Safety device for window sashes. 1,697,724; Jan. 1.
- Gilsenan, Thomas F., Oakland, Calif. Electrolier. Des. 79,513; Oct. 1.
- Gilson, Albert F. F., Oradell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric-circuit connector. 1,733,591; Oct. 29.
- Gilson, Dayton H., assignor of one-half to F. P. Mullins, Rushville, Ind. Multiple trasher. 1,732,885; Oct. 22.
- Gilson, Lorenzo H. (See Lyon, H., and Gilson.)
- Gilson, Lorenzo H., Brockton, assignor to P. E. Barbour, Quincy, trading as Barbour Welting Company, Brockton, Mass. Heavy-edge welting. 1,732,807; Oct. 22.
- Gilson, Lorenzo H., Brockton, assignor to P. E. Barbour, Quincy, doing business as Barbour Welting Company, Brockton, Mass. Welt shoe and welting therefor. 1,735,457; Nov. 12.
- Gilson Manufacturing Company, The. (See Donald, Forrest V., assignor.)
- Gilson Manufacturing Company. (See Travers, Charles J., assignor.)
- Gilson, Michael, assignor to Kwik-Mix Concrete Mixer Co., Port Washington, Wis. Concrete mixer. 1,698,542; Jan. 8.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,705,610; Mar. 19.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signaling system. 1,705,611; Mar. 19.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 1,728,558; Sept. 17.
- Gilson, Robert M., Pittsburgh, Pa., and A. B. Miller, Etowah, Tenn., assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-switch controller. 1,702,049; Feb. 12.
- Giltner, Milton J., Ottumwa, Iowa. Hopper for vending machines. 1,729,287; Sept. 24.
- Ginder, William H., Haddonfield, N. J., assignor, by mesne assignments, to Electro Manufacturing Company of America. Portable fan. 1,712,698; May 14.
- Ginder, William H., Haddonfield, N. J., assignor to Electro Mfg. Company of America. Toasting apparatus. 1,729,937; Oct. 1.
- Gingras, Arthur, assignor of one-half to R. C. Reetz, Pawtucket, R. I. Loom shuttle. 1,709,720; Apr. 16.
- Gingras, Edward F., Buffalo, N. Y. Making pulley coverings. 1,697,236; Jan. 1.
- Gingrich, Harry C., Pottstown, Pa. Union suit for men. 1,707,607; Apr. 2.
- Ginn, Percy E. (See Bond, Charles L., assignor.)
- Ginnane, Katherine, Brooklyn, assignor to Gotham Silk Hosiery Co., Inc., New York, N. Y. Stocking. 1,729,653; Oct. 1.
- Ginnetti, Frank G., Willimantic, Conn. Concrete-road form. 1,710,574; Apr. 23.
- Gins, Solomon C., Charleroi, Pa. Flying machine. 1,698,626; Jan. 8.
- Ginsberg, Harry J., assignor to Standard Safety Clamp Company, Amarillo, Tex. Sign holder. 1,705,564; Mar. 19.
- Ginsburg, Abe. (See Lerner, H., and Ginsburg.)
- Ginsburg, Lionel L., assignor to Saginaw Furniture Shops, Saginaw, Mich. Cabinet. Des. 79,712; Oct. 29.
- Ginsburg, Lionel L., assignor to Saginaw Furniture Shops, Saginaw, Mich. Cabinet. Des. 79,713; Oct. 29.
- Ginsburg, Lionel L., assignor to Saginaw Furniture Shops, Saginaw, Mich. Cabinet. Des. 79,801; Nov. 5.
- Ginter, James C., San Gabriel, Calif. Brake equalizer. 1,711,886; May 7.
- Giovannini, Sebastian, Chicago, Ill. Nut lock. 1,731,337; Oct. 15.
- Gipe, John C., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-surfacing apparatus. 1,714,307; May 21.
- Gipe, John C., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Grinding head. 1,718,347; June 25.
- Giragosian, Bedros, Watertown, Mass. Water heater. 1,739,138; Dec. 10.
- Girard, Arthur G., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle shipping device. 1,708,613; Apr. 9.
- Girard, Edward L. and F. F., Washingtonville, Ohio. Can opener. 1,742,140; Dec. 31.
- Girard, Fred F. (See Girard, Edward L. and F. F.)
- Girard, Henry O., Nashua, N. H. Table. Des. 80,118; Dec. 17.
- Girard, Henry O., Nashua, N. H. Chair. Des. 80,173; Dec. 24.
- Girard Model Works Inc., The. (See Connell, Stanley L., assignor.)
- Giraud, Victor G., Paris, France. Closure. 1,735,430; Nov. 12.
- Girdlestone, Herbert T., and J. Rest, London, England. Hand tool for compressing valve springs and for analogous purposes. 1,710,797; Apr. 30.
- Girdlestone, Herbert T., and J. Rest, London, England. Collapsible container. 1,737,417; Nov. 26.
- Girin, Antoine, Lyon, France. Carburetor. 1,735,499; Nov. 12.
- Girodo, Joseph L., et al. (See Theriot, Charles, assignor.)
- Giroud, Pierre, Paris, France. Signaling system and electron-tube circuits. 1,732,044; Oct. 15.
- Giroux, Charles A., Montreal, Quebec, Canada. Changeable sign. 1,731,164; Oct. 8.
- Girtanner, Alexander, Freeport, N. Y., assignor to Automatic Lighter Corporation, Stamford, Conn. Igniting device for cigarette-dispensing containers. 1,711,936; May 7.
- Gish, J. Emmett. (See Agner, Elton R., assignor.)
- Gisholt Machine Company. (See Class, George M., assignor.)
- Gisholt Machine Company. (See McDonough, Francis T., assignor.)
- Gisolfi, Alfonso and G., Brooklyn, N. Y. Candle machine. 1,721,513; July 23.
- Giszczynski, Stanley, Philadelphia, Pa. Umbrella runner. 1,712,430; May 7.
- Gitterman, Kurt R., Brooklyn, N. Y. Container stopper. 1,705,445; Mar. 12.
- Gittleman, Benjamin, Providence, R. I. Package. 1,716,628; June 11.
- Gitzen, Joseph A. (See Pate, William R.)
- Giullana, Joseph P., Newark, N. J. Automobile bumper or similar article. Des. 78,461; May 7.
- Giusto, Nicola, New York, N. Y. Universal timepiece. 1,732,934; Oct. 22.
- Given, Frederick J., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of magnetic cores. 1,733,592; Oct. 29.
- Given, Ralph D., Leamington, and J. W. Pool, Rugby, England, assignors to General Electric Company. System of motor control. 1,699,106; Jan. 15.
- Givens, Maurice H. (See Hill, C. B., and Givens.)
- Glacier Corporation, The. (See Chandler, Harry R., assignor.)
- Glacier Corporation, The. (See Scarlett, George B., assignor.)
- Gladding, McBean & Co. (See MacMichael, Paul S., assignor.)
- Gladish, Charles H. and E. B., Higginsville, Mo., assignors to Leahy Manufacturing Co. Incubator tray. 1,703,339; Feb. 26.
- Gladish, Edwin B. (See Gladish, Charles H. and E. B.)
- Glaenger, Harry, and L. W. Hance, Philadelphia, Pa. Two-cylinder structure for locomotives. 1,718,135; June 18.
- Glaenger, Harry, and L. W. Hance, Philadelphia, Pa. Locomotive-cylinder saddle. 1,718,136; June 18.
- Glaenger, Jules, New York, N. Y. Cigarette box. 1,736,651; Nov. 19.
- Glaeser, Ado, Woodhaven, assignor to Modern Office Devices, Inc., New York, N. Y. Paper punch. 1,738,572; Dec. 10.
- Glaeser, Charles G. H., Newark, N. J., assignor, by mesne assignments, to Congoleum-Nairn Inc., Philadelphia, Pa. Making inlaid linoleum and the product thereof. 1,738,887; Dec. 10.
- Glaeser Research Corporation. (See Glaeser, Walter, assignor.)
- Glaeser, Walter, Brooklyn, assignor to Glaeser Research Corporation, New York, N. Y. Producing mercury. Re17,276; Apr. 23.
- Glaicar, Joseph D., and A. E. Ziegler, Armstrong, British Columbia, Canada. Snowplow. 1,701,708; Feb. 12.
- Glamzo, Paul, New York, N. Y. Lemon-slice squeezer. 1,740,170; Dec. 17.
- Glancy, Anna E., assignor to American Optical Company, Southbridge, Mass. Lens-seating device. 1,722,520; July 30.
- Glancy, Anna E., assignor to American Optical Company, Southbridge, Mass. Lens-testing instrument. 1,726,820; Sept. 3.
- Glantz, Ludwig B., Minden, Nebr. Internal-combustion engine. 1,711,937; May 7.
- Glanzer, Ludwig, Winkler, Kans. Snow fence. 1,709,787; Apr. 16.
- Glascock Brothers Manufacturing Company. (See Frick, Chester A., assignor.)
- Glascodeine, Richard T., Westminster, London, England. Railway or like passenger vehicle. 1,731,852; Oct. 15.
- Gläsel, A., & Co., Saitenfabrik. (See Gläsel, Adolf, assignor.)
- Gläsel, Adolf, assignor to A. Gläsel & Co., Saitenfabrik, Markneukirchen in Saxony, Germany. String for string instruments. 1,717,677; June 18.
- Glaser, John M., assignor to U. S. Hame Company, Buffalo, N. Y. Buckle and making same. 1,701,531; Feb. 12.
- Glaser, John M., assignor to U. S. Hame Company, Buffalo, N. Y. Mechanism for and forming wire articles. 1,701,532; Feb. 12.
- Glaser, John M., assignor to U. S. Hame Company, Buffalo, N. Y. Hame and making the same. 1,703,443; Feb. 26.
- Glaser, Oscar L., Chicago, Ill. Golf-ball tee. 1,698,627; Jan. 8.
- Glasgow, Ernest M., Port Chester, assignor to Russell & Stoll Company, New York, N. Y. Safety switch. 1,725,789; Aug. 27.
- Glasgow, John G. (See Henderson, H., and Glasgow.)
- Glasgow, William, Toronto, Ontario, Canada, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper-handling machine. 1,707,979; Apr. 9.
- Gaspy, George C., Burlington, N. C. Combined engine-head support and valve-spring compressor. 1,734,122; Nov. 5.
- Glass, Arnold F., Birmingham, Ala. Lighter for gas burners. 1,705,759; Mar. 19.



- Glass, Clifton A., Kansas City, Mo. Floating roof for oil tanks. 1,698,158; Jan. 8.
- Glass, Clifton A., Kansas City, Mo. Tank. 1,700,887; Feb. 5.
- Glass, David D., Elida, Ohio. Article-dispensing device. 1,723,417; Aug. 6.
- Glass, Ernst, assignor to Matth. Hohner Akt. Ges., Trossingen, Wurtemberg, Germany. Device for giving correct notes and harmonies in mouth organs. 1,710,502; Apr. 23.
- Glass, Frederick, Miami, Fla. Bearing holder. 1,708,836; Apr. 9.
- Glass, Hugo, assignor to the firm Bernhard Glass Sohne, Brunnedoera, Germany. Money box. 1,721,388; July 16.
- Glass, Jacob, New York, N. Y. Suspender and spinal supporter. 1,715,196; May 28.
- Glass, Jacob, New York, N. Y. Surgical appliance. 1,741,457; Dec. 31.
- Glass, John M. (See Brown, J., and Glass.)
- Glass, Nathan J., San Francisco, Calif. Illuminating device. 1,705,813; Mar. 19.
- Glass, Otto, Chicago, Ill. Concertina action. 1,737,839; Dec. 3.
- Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Process of and machine for perforating. Re17,208; Feb. 5.
- Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,699,696; Jan. 22.
- Glass, Perley R., Wayland, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,702,598; Feb. 19.
- Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,713,528; May 21.
- Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,716,629; June 11.
- Glass, Perley R., Wayland, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,734,123; Nov. 5.
- Glasser, Richard, San Francisco, Calif. Envelope opener. 1,731,413; Oct. 15.
- Glassman, Frank, Brooklyn, N. Y. Pipe. 1,726,063; Aug. 27.
- Glatthar, George E. (See Wening, F., and Glatthar.)
- Glatzner, Louis O., Hasbrouck Heights, N. J. Aircraft communication apparatus. 1,701,204; Feb. 5.
- Glatzner, Louis O., Bristol, Pa. Illuminated display. 1,701,205; Feb. 5.
- Glauber, Morris H. (See Fischer, Arthur I., assignor.)
- Glauber, Myron J., Beverly Hills, assignor to Bucknell Supply Company, Los Angeles, Calif., doing business as Sphinx Manufacturing Company. Combined spout and spray fixture. 1,717,678; June 18.
- Glauber, Myron J., assignor to Bucknell Supply Company, Los Angeles, Calif., doing business as Sphinx Manufacturing Company. Sink fixture. 1,730,455; Oct. 8.
- Glaxner, Herman J., Fairbanks, La., assignor to Columbian Carbon Company, New York, N. Y. Apparatus for packing powders. 1,739,790; Dec. 17.
- Glaze, Herbert L., and G. C. Humphrey, assignors to United Products Company, Inc., Los Angeles, Calif. Process of and apparatus for producing cellulosic briquettes. 1,716,490; June 11.
- Glaze, John B. (See Ridgway, R. R., and Glaze.)
- Glazer, Joseph, Fort Worth, Tex. Bottle. Des. 78,157; Apr. 2.
- Glazer, Morris, Brooklyn, N. Y. Device for handling plate-glass panes. 1,721,816; July 23.
- Gleaser Combine Harvester Corporation, The. (See Gottschall, C. R., and Pike, assignors.)
- Gleaser Combine Harvester Corporation, The. (See Stevens, C. A., Baldwin, and Michaels, assignors.)
- Gleasner, William J., Buffalo, N. Y. Clearing and filling tubular piles for foundations. 1,729,422; Sept. 24.
- Gleason, Frederick H., Auburn, N. Y. Lubricating system. 1,732,579; Oct. 22.
- Gleason, Frederick H., Auburn, N. Y., and L. F. Goodspeed, Kalamazoo, Mich., assignors to Bowen Products Corporation, Auburn, N. Y. Hydraulic brake cylinder. 1,712,882; May 14.
- Gleason, Frederick H., Auburn, N. Y., and L. F. Goodspeed, Kalamazoo, Mich., assignors to Bowen Products Corporation, Auburn, N. Y. Hydraulic brake. 1,726,484; Aug. 27.
- Gleason, Homer E., assignor to Cascade Fixture Company, Seattle, Wash. Chandelier or similar article. Des. 80,029; Dec. 3.
- Gleason, James E., E. Finsen, and R. Webster, assignors to Gleason Works, Rochester, N. Y. Method of and machine for generating gears. 1,722,464; July 30.
- Gleason, John W., et al., trustees. (See Arey, Fred C., assignor.)
- Gleason, Michael S., New York, N. Y. Coin-saving bank. Re17,284; Apr. 23.
- Gleason, Michael S., assignor to Roena S. Gleason, New York, N. Y. Educational appliance. 1,699,289; Jan. 15.
- Gleason, Patrick M., Carroll, Iowa. Retaining means for watch crystals and the like. 1,718,228; June 25.
- Gleason, Rowena S. (See Gleason, Michael S., assignor.)
- Gleason Works. (See Candee, Allan H., assignor.)
- Gleason Works. (See Candee, A. H., and Johanson, assignors.)
- Gleason Works. (See Candee, A. H., and Richmond, assignors.)
- Gleason Works. (See Gleason, J. E., Finsen, and Webster, assignors.)
- Gleason Works. (See Head, Ernest C., assignor.)
- Gleason Works. (See Johanson, Magnus H., assignor.)
- Gleason Works. (See Snow, Wilbur H., assignor.)
- Gleason Works. (See Uhlich, Paul, assignor.)
- Gleason Works. (See White, Herbert J., assignor.)
- Gleason Works. (See Wildhaber, Ernest, assignor.)
- Gleckner, W. W., & Sons Company. (See Stover, Gordon B., assignor.)
- Gleerup-Møller, Christian, Horsens, Denmark. Electric driving device for talking machines. 1,702,342; Feb. 19.
- Gleeson, Frank T., National Soldiers Home, Va. Waxing machine. 1,697,761; Jan. 1.
- Gleich, Isaac H., New York, N. Y. Button-blank-cutting machine. 1,713,695; May 21.
- Gleichmann, Hans, Siemensstadt, near Berlin, and W. Stender, Berlin-Charlottenburg, Germany, assignors, by mesne assignments, to Ruthsaccumulator, Aktiebolag, Stockholm, Sweden. Steam boiler. 1,732,439; Oct. 22.
- Glen Mixer Company. (See Dehuff, Walter F., assignor.)
- Glendinning, James I., F. D. Rohan, and C. E. Saglaw, assignors to Glen-Ro Rug Manufacturing Company, Oakland, Calif. Making rugs. 1,732,266; Oct. 22.
- Glendinning, Robert, Chestnut Hill, Pa. Beverage mixing and serving set. 1,725,265; Aug. 20.
- Glenn, Allen, Shell Lake, Wis. Heating stove. 1,706,572; Mar. 26.
- Glenn, Carl O., Rock Island, Ill., assignor to W. H. Foster, New York, N. Y. Triple-valve attachment. 1,713,651; May 21.
- Glenn, Jugurtha W., F. R. Hood, and J. B. Schwab, Stockton, Calif. Vegetable conditioner. 1,735,748; Nov. 12.
- Glenn, Ralph W., Piedmont, Calif. Autographic manifold register. 1,741,362; Dec. 31.
- Glenn, William L., Cortez, Colo. Wooden stave shoe. 1,726,147; Aug. 27.
- Glenny, Clarence S., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Wire basket. 1,722,416; July 30.
- Glen-Ro Rug Manufacturing Company. (See Glendinning, J. I., Rohan, and Saglaw, assignors.)
- Glenwood Range Company. (See Wilde, Samuel A., assignor.)
- Gleyre, William J. (See Wilson, W. E., Gleyre, and Homan.)
- Glick, Edward G., Chicago, Ill. Spare-tire cover. 1,741,105; Dec. 24.
- Glidden, Alfred A., and A. Drechsler, assignors to Hood Rubber Company, Watertown, Mass. Lasting jack. 1,722,698; July 30.
- Glidden, Alfred A., Watertown, and W. R. Hickler, Weston, assignors to Hood Rubber Company, Watertown, Mass. Waterproof upper for overshoes. 1,701,612; Feb. 12.
- Glidden, Alfred A., Watertown, and W. R. Hickler, Weston, assignors to Hood Rubber Company, Watertown, Mass. Waterproof shoe. 1,731,740; Oct. 15.
- Glidden, Alfred A., Watertown, and W. R. Hickler, Weston, assignors to Hood Rubber Company, Watertown, Mass. Waterproof shoe. 1,731,741; Oct. 15.
- Glidden, Alfred A. and T. M. Knowland, assignors to Hood Rubber Company, Watertown, Mass. Sole for boots and shoes. 1,701,611; Feb. 12.
- Glidden, Alfred A., and T. M. Knowland, assignors to Hood Rubber Company, Watertown, Mass. Sole for boots and shoes. 1,704,187; Mar. 5.
- Glidden, Alfred A., and T. M. Knowland, Watertown, and H. L. Davis, Walpole, assignors to Hood Rubber Company, Watertown, Mass. Manufacturing rubber boots. 1,722,697; July 30.
- Glidden, Alfred A., and T. M. Knowland, assignors to Hood Rubber Company, Watertown, Mass. Rubber boot. 1,725,347; Aug. 20.
- Glidden, Alfred A., and T. M. Knowland, assignors to Hood Rubber Company, Watertown, Mass. Molded rubber boot. 1,732,440; Oct. 22.
- Glidden, Alfred A., and T. M. Knowland, Watertown, and A. M. Greim, Dorchester, assignors to Hood Rubber Company, Watertown, Mass. Top boot and process for manufacturing. 1,734,478; Nov. 5.
- Glidden, Harvey L., Lexington, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,703,190; Feb. 26.
- Glidden, Harvey L., Lexington, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,720,893; July 16.
- Glidden, Robert M., Watertown, Mass. Fastening device for overshoes. 1,734,479; Nov. 5.
- Glidden, Roy R., San Bernardino, Calif. Swivel joint. 1,712,301; May 7.
- Glieberman, Abraham, Brooklyn, N. Y. Hand-bag frame. 1,701,300; Feb. 5.
- Glietenberg, Eugen. (See Schmelzer, A., Muth, and Glietenberg.)
- Glines, Frederick S., Lynn, Mass. Tape-applying machine. 1,710,415; Apr. 23.
- Glinka, Robert, Mulheim-Ruhr-Speldorf, Germany. Aeration process for drying, carbonizing, and oxidizing plants and apparatus therefor. 1,715,830; June 4.
- Glisce, Vito, Waterbury, Conn. Noodle machine. 1,730,932; Oct. 8.
- Global Corporation. (See Duersten, William E., assignor.)
- Global Corporation. (See Hediger, Ernst, assignor.)



- Global Corporation. (See Pfau, Arnold, jr., assignor.)  
 Global Corporation. (See Rohn, G. J., and Pfau, assignors.)  
 Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)  
 Globe Foundry & Machine Co. (See Zlatnik, Frank, assignor.)  
 Globe Machinery & Supply Company. (See Trapp, Charles L., assignor.)  
 Globe Overall Company, The. (See Krumpelbeck, Edward I., assignor.)  
 Globe Technolian Corporation. (See Kimball, Irving, assignor.)  
 Globe-Wernicke Company, The. (See Blaine, John E., assignor.)  
 Globe-Wernicke Co., The. (See Ringler, William A., assignor.)  
 Globe-Wernicke Company, The. (See Salt, Elmer H., assignor.)  
 Globe-Wernicke Company, The. (See Sandmann, Frank A., assignor.)  
 Globe-Wernicke Company, The. (See Smiley, Samuel, jr., assignor.)  
 Globe-Wernicke Company, The. (See Thies, Urban C., assignor.)  
 Gloekler, John E., Pittsburgh, Pa. Refrigerator. 1,705,914; Mar. 19.  
 Gloekler, John E., Pittsburgh, Pa. Refrigerator. 1,711,113; Apr. 30.  
 Gloekler, John E., Pittsburgh, Pa. Sliding shelf structure. 1,711,143; Apr. 30.  
 Gloekler, John E., Pittsburgh, Pa. Refrigerator. 1,711,381; Apr. 30.  
 Gloekler, John E., Pittsburgh, Pa. Counterweight mechanism. 1,736,784; Nov. 26.  
 Gloess, Paul, St. Mandé, France. Obtaining organic iodine. 1,710,255; Apr. 23.  
 Glos, Frederick, Bell, Calif. Radio loud speaker. 1,697,642; Jan. 1.  
 Glos, Frederick P., assignor to The Triumph Manufacturing Company, Cincinnati, Ohio. Mixing machine. 1,707,852; Apr. 2.  
 Gloschen, Everett C., assignor of one-third to A. L. McAllister, Trenton, Mo. Carpenter's plane. 1,722,742; July 30.  
 Glove Corporation, The. (See Sturm, Francis X., assignor.)  
 Glover, John, Chicago, Ill. Duster construction. 1,707,608; Apr. 2.  
 Glover, W. J. (See Miller, Louis E., assignor.)  
 Glover, W. T., & Company Limited. (See Beaver, Charles J., assignor.)  
 Glover, William C., assignor to Butler Manufacturing Company, Kansas City, Mo. Deodorizer and drier. 1,730,501; Oct. 8.  
 Glowa, John, and H. E. Chiet, Brooklyn, N. Y. Doll construction. 1,702,208; Feb. 12.  
 Glowacki, Julius, South Boston, Mass. Sand and rock separator. 1,710,052; Apr. 23.  
 Gluck, Edward V., and A. P. Hirsch, Brooklyn, assignors to Micamold Radio Corporation, New York, N. Y. Grid leaf and condenser. 1,730,364; Oct. 8.  
 Gluck, Eugene, New York, N. Y. Watch-crystal-cutting machine. 1,727,283; Sept. 3.  
 Gluckstein, Vincent, London, England. Crane. 1,721,777; July 23.  
 Glier, Bruno, assignor to Gesellschaft für Elektrische Apparate m. b. H., Berlin, Germany. Device for controlling the firing of ordnances or the like when firing at a moving target. 1,732,718; Oct. 22.  
 Glud, Wilhelm, and B. Löpmann, Dortmund-Eving, Germany. Manufacturing sodium bicarbonate and ammonium chloride. 1,710,636; Apr. 23.  
 Gminder, Emil, Reutlingen, Germany. Method of and apparatus for obtaining fiber material from stalks. 1,715,911; June 4.  
 Gminder, Emil, Reutlingen, Germany. Apparatus for removing material from centrifugal machines. 1,718,688; June 25.  
 Gnagi, Lawren C., Lima, Ohio. Radiator. 1,741,930; Dec. 31.  
 Gnatowsky, Irving, Brooklyn, N. Y. Collar clasp. 1,735,387; Nov. 12.  
 Gnehm, Walter, assignor of one-half to E. H. Grafton, Los Angeles, Calif. Automatic gear shift. 1,727,594; Sept. 10.  
 Gnuechtel, Victor H., assignor of one-half to B. Riesland, Portland, Oreg. Play and exercising device. 1,731,658; Oct. 15.  
 Goade, John I., Allentown, Pa. Filtering apparatus. 1,700,160; Jan. 29.  
 Gober, Karl O., Oakland, and L. H. Watty, Alameda, Calif. Wall wirer. 1,697,354; Jan. 1.  
 Goble, Bert G., Tulsa, Okla. Artificial bait or frog. 1,708,015; Apr. 9.  
 Goble, Bert G., Tulsa, Okla. Pumping jack chain. 1,712,730; May 14.  
 Goble, Palmer C., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Combined base and pedestal for tables or the like. Des. 78,015; Mar. 19.  
 Goble, Palmer C., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Stool or the like. Des. 78,016; Mar. 19.  
 Gocke, James B., Los Angeles, Calif. Card holder for containers. 1,708,614; Apr. 9.  
 Gockerell, Fritz, Munich, assignor of one-half to G. M. Wolff, Rodewisch, Germany. High-speed internal-combustion engine with self-ignition. 1,741,766; Dec. 31.  
 Godal, Arne, Vestre Aker, near Oslo, Norway. Bleaching fatty acids. 1,740,012; Dec. 17.  
 Godard, Luis. (See Larrey, T., and Godard.)  
 Goddard, Charles F., Denver, Colo., assignor to Goddard Specialties Company, Incorporated. Grease pump. 1,698,159; Jan. 8.  
 Goddard, John V., Trentham, England, assignor to H. C. Edmiston, New York, N. Y. Plate or similar article. Des. 78,017; Mar. 19.  
 Goddard, John V., Trentham, England, assignor to H. C. Edmiston, New York, N. Y. Covered dish or similar article. Des. 78,201; Apr. 9.  
 Goddard, John V., Trentham, England, assignor to H. C. Edmiston, New York, N. Y. Covered dish or similar article. Des. 78,283; Apr. 16.  
 Goddard, Joseph W. (See Bentley, P. A., and Goddard.)  
 Goddard, Robert H., Worcester, Mass. Vaporizer for use with solar energy. 1,700,675; Jan. 29.  
 Goddard Specialties Company. (See Goddard, Charles F., assignor.)  
 Goddard, Walter T., Hamilton, Ontario, Canada, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,716,123; June 4.  
 Goddard, Walter T., Hamilton, Ontario, Canada, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,737,999; Dec. 3.  
 Goddard, Winfred R. and C. K. Hewes, Los Angeles, Calif. Penetration tester. 1,703,270; Feb. 26.  
 Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Gripper for last-ing machines. 1,712,611; May 14.  
 Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting of shoes. 1,731,853; Oct. 15.  
 Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. 1,731,854; Oct. 15.  
 Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,731,855; Oct. 15.  
 Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work support. 1,733,190; Oct. 29.  
 Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,703,929; Mar. 5.  
 Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Safety device. 1,704,188; Mar. 5.  
 Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on boots and shoes. 1,709,347; Apr. 16.  
 Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Tack-handling mechanism. 1,722,287; July 30.  
 Goddyn, Johannes, Haarlemmermeer, Netherlands. Carburetor. 1,715,453; June 4.  
 Godefroy, Alexandre F., Mexico, Mexico. Motor. 1,719,761; July 2.  
 Godefroy, Alexandre F., Mexico, Mexico. Electric motor. 1,728,054; Sept. 10.  
 Godel, Albert, Lagnieu, assignor to Société De Recherches Et d'Exploitations Pétrolifères, Paris, France. Process and apparatus for the separation and recovery of gases and vapors by solid absorbents. 1,717,103; June 11.  
 Godein, Albert, London, England. Reinforced-concrete and like building. 1,736,494; Nov. 19.  
 Godfrey, Charles L., Corona, N. Y. Tennis racquet. 1,733,960; Oct. 29.  
 Godfrey, Earl V., Girard Township, Erie County, assignor to Lovell Manufacturing Company, Erie, Pa. Clothes-wringer frame. Des. 78,284; Apr. 16.  
 Godfrey, Earl V., Girard Township, Erie County, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,736,589; Nov. 19.  
 Godfrey, Edgar L. (See Tillyer, E. D., and Godfrey.)  
 Godfrey, Frank H., St. Paul, Minn. Connecting rod. 1,741,621; Dec. 31.  
 Godfrey, John E., et al. (See Wakeman, John M., assignor.)  
 Godfrey, Joseph H., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve. 1,708,267; Apr. 9.  
 Godfrey, Joseph H., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve. 1,724,016; Aug. 13.  
 Godfrey, Joseph H., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve. 1,724,017; Aug. 13.  
 Godfrey, Joseph H., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve. 1,734,569; Nov. 5.  
 Godfrey, Joseph H., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Pasteurizing apparatus. 1,734,570; Nov. 5.  
 Godfrey, Joseph H., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Pasteurizing apparatus. 1,734,571; Nov. 5.  
 Godley, Paul F. (See Farrand, C. L., Ross, and Godley.)  
 Godman, Claud W., Falmouth, Ky. Wheel remover. 1,705,011; Mar. 12.  
 Godoy, Humbert. (See Feeney, T. I., and Godoy.)



- Godsey, H. Mitchell, Shreveport, La. Process and apparatus for softening water. 1,707,302; Apr. 2.
- Godsho, Albert, Philadelphia, Pa. Shoe stretcher. 1,711,091; Apr. 30.
- Godson Contracting Company. (See Hebden, Robert H., assignor.)
- Godstre, Percival F., New York, N. Y., assignor to Quicken Piston Company, Inc. Removable piston. 1,734,085; Nov. 5.
- Godtel, William J., Culbertson, Nebr. Sugar-beet lifter and topper. 1,723,777; Aug. 6.
- Goebel, Joseph, Brooklyn, N. Y. Automobile extractor. 1,720,396; July 9.
- Goeckler, Frank E., assignor of one-fourth to G. C. Klaunder and one-fourth to J. Cox, Philadelphia, Pa. Electrical time-recording system. 1,713,276; May 14.
- Goedecke, Fritz, Thuisis, Switzerland. Manufacturing salts of inosit hexaphosphoric acid. 1,715,031; May 28.
- Goedecke, Fritz, Thuisis, Switzerland. Dietary composition. 1,721,214; July 16.
- Goeller, Robert A., Larchmont, N. Y. Connector. 1,710,416; Apr. 23.
- Goeller, Robert A., Larchmont, N. Y. Connector. 1,712,108; May 7.
- Goeller, William S., Birmingham, Ala. Bushing remover and replacer. 1,736,529; Nov. 19.
- Goergen, Jacob J. (See Schleich, N., and Aldridge, assignors.)
- Goergl, John, assignor of one-half to R. M. Hvid, Chicago, Ill. Safety switch plug. 1,716,041; June 4.
- Goerke, Carl E., Gilge, Germany. Skill-testing machine. 1,730,726; Oct. 8.
- Goerlich, John E., Toledo, Ohio. Muffler. 1,697,839; Jan. 1.
- Goertz, Albert, New York, N. Y., assignor to Tri-Lok Company, Pittsburgh, Pa. Composite metal structure. 1,736,968; Nov. 26.
- Goertz, August, Newark, N. J. Portfolio lock. Des. 77,544; Jan. 22.
- Goertz, August, & Co. (See Dickey, Laurence P., assignor.)
- Goertz, August, & Co. (See Goertz, Frederick, assignor.)
- Goertz, August, & Co., Inc. (See Goertz, Frederick and W. A., assignors.)
- Goertz, August, & Co. (See Wacker, William E., assignor.)
- Goertz, Frederick, South Orange, N. J., assignor to August Goertz & Co., Inc. Cosmetic carrier. 1,712,496; May 14.
- Goertz, Frederick, South Orange, N. J., assignor to August Goertz & Co., Inc. Decorating boxes. 1,735,431; Nov. 12.
- Goertz, Frederick, South Orange, and W. A. Goertz, East Orange, N. J., assignors to August Goertz & Co., Inc. Cosmetic box. 1,697,180; Jan. 1.
- Goertz, Walter A. (See Goertz, Frederick and W. A.)
- Goerz, C. P., American Optical Company. (See Mueller, Emil M., assignor.)
- Goerz, C. P., Optische Anstalt, Aktiengesellschaft, Akiowa Spolecmost K. P. Goerz Opticky Ustav. (See Petschenig, Karl, assignor.)
- Goethe, Carl, Brooklyn, N. Y. Cassette. 1,731,004; Oct. 8.
- Goetsch, George W., Elkins Park, assignor to Quaker Hosiery Company, Philadelphia, Pa. Ravel stop. 1,707,961; Apr. 2.
- Goetz Brass Company. (See Robertson, Homer E., assignor.)
- Goetz, Oscar H., Chicago, Ill., assignor to American Chain Company, Inc. Bumper. 1,697,975; Jan. 8.
- Goetz, Oscar H., Springfield, Mass., assignor to American Chain Company, Inc. Automobile bumper. 1,703,665; Feb. 26.
- Goetz, Oscar H., Chicago, Ill., assignor to American Chain Company, Inc. Automobile bumper. 1,703,666; Feb. 26.
- Goetz, Oscar H., Chicago, Ill., assignor to American Chain Company, Inc. Automobile bumper and clamp. 1,703,878; Mar. 5.
- Goetz, Oscar H., Chicago, Ill., assignor to American Chain Company, Inc. Automobile bumper. 1,703,930; Mar. 5.
- Goetz, Oscar H., Chicago, Ill., assignor to American Chain Company, Inc. Automobile bumper and clamp. 1,703,931; Mar. 5.
- Goetz, Oscar H., Chicago, Ill., assignor to American Chain Company, Inc. Automobile bumper. 1,703,932; Mar. 5.
- Goetzelman, William, Chicago, Ill., assignor to Appleton Electric Company. Pipe connector. 1,736,154; Nov. 19.
- Goff, Charles A., Grafton, W. Va. Railway-track-aligning tool. 1,739,453; Dec. 10.
- Goff, Judson L., assignor of one-half to A. Silk, Topeka, Kans. Coal-chute-supporting means. 1,726,662; Sept. 3.
- Goff, Nara D., Clinton, Iowa. Washboiler. 1,739,454; Dec. 10.
- Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic operating means. 1,726,391; Aug. 27.
- Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,726,392; Aug. 27.
- Goff, William A., Seattle, Wash. Brick-joint raker. 1,736,077; Nov. 19.
- Gogan, Frank A., Newark, N. J. Watch-holding attachment for belts. 1,729,578; Sept. 24.
- Gohmann Bros. and Kahler Company. (See Gohmann, Charles L., assignor.)
- Gohmann, Charles L., assignor to Gohmann Bros. and Kahler Company, New Albany, Ind. Adjustable hinge for foundry flasks. 1,699,839; Jan. 22.
- Gohn, Adam C., Windber, Pa. Automobile card holder. 1,701,106; Feb. 5.
- Gohn, Alfred A., Warren, Pa. Fuel-gasifying device. 1,732,841; Oct. 22.
- Gohorel, Fernand. (See Stewart, C., and Gohorel.)
- Gohorel, Fernand, and C. Stewart, Paris, France, assignors to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,724,189; Aug. 13.
- Going, George G., Middletown, Conn., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. 1,730,456; Oct. 8.
- Going, George G., Middletown, Conn., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. 1,730,457; Oct. 8.
- Going, George G., Middletown, Conn., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. 1,734,480; Nov. 5.
- Goins, Eddie N., Monongah, W. Va. Brake mechanism for mining cars. 1,720,954; July 16.
- Gold, Benjamin, New York, N. Y. Necktie. 1,705,473; Mar. 19.
- Gold Car Heating & Lighting Company. (See Brumbaugh, Jacob O., assignor.)
- Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y. Thermostatic valve. 1,737,585; Dec. 3.
- Gold, Egbert H., deceased, Evanston, and T. H. Manchester and E. A. Russell; said Manchester and said Russell assignors to Vapor Car Heating Company, Inc., Chicago, Ill.; M. J. Gold and Biscayne Trust Company, executors. Hose coupler. 1,733,791; Oct. 29.
- Gold, Egbert H., Evanston, and E. A. Russell; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill. End-train-pipe valve. 1,697,684; Jan. 1.
- Gold, Egbert H., deceased, Miami Beach, Fla., and E. A. Russell; said Russell assignor to Vapor Car Heating Company, Inc., Chicago, Ill.; M. J. Gold and Biscayne Trust Company, executors. Radiator for railway-car-heating systems. 1,729,473; Sept. 24.
- Gold, Margaret J., et al., executors. (See Gold, E. H., Manchester, and Russell.)
- Gold, Margaret J., et al., executors. (See Gold, E. H., and Russell.)
- Gold Medal Camp Furniture Mfg. Company. (See Brown, Newton N., assignor.)
- Gold Medal Folding Furniture Company. (See Danzer, Fred P., assignor.)
- Gold, Samuel, Chicago, Ill., and L. B. Conduit, Medina, Ohio. Boy's coat. Des. 77,686; Feb. 12.
- Gold, Samuel, Chicago, Ill., and L. B. Conduit, Medina, Ohio. Doll. Des. 77,687; Feb. 12.
- Gold, Samuel B., assignor to Weber Engine Company, Kansas City, Mo. Internal-combustion engine. 1,731,895; Oct. 15.
- Goldberg, Abraham, New York, N. Y. Toothbrush. 1,707,118; Mar. 26.
- Goldberg, Albert, New Orleans, La. Foldable table. 1,713,177; May 14.
- Goldberg, Bessie. (See Liebchen, Friederich W., assignor.)
- Goldberg, David D., Chicago, Ill. Valve mechanism. 1,724,079; Aug. 13.
- Goldberg, David and S., and A. M. Young, Brooklyn, N. Y. Roasting and broiling Frankfurters. 1,706,225; Mar. 19.
- Goldberg, Edmund E., assignor to Goshen Shirt Manufacturing Company, Chicago, Ill. Convertible-shirt-collar construction. 1,716,042; June 4.
- Goldberg, Emanuel, Dresden, Germany. Motion-picture camera driven by a spring mechanism. 1,704,189; Mar. 5.
- Goldberg, Emanuel, Dresden, and O. Fischer, Dresden-Lauegast, assignors to Zeiss Ikon Aktiengesellschaft Dresden, Dresden, Germany. Film-spool construction. 1,713,277; May 14.
- Goldberg, Herman, assignor to Precision Scientific Co., Chicago, Ill. Laboratory heater. 1,702,078; Feb. 12.
- Goldberg, Isaac, Kansas City, Kans. Display box. 1,734,621; Nov. 5.
- Goldberg, Isaac, New York, N. Y. Face-mask ornamentation for shoe insteps or the like. Des. 78,569; May 21.
- Goldberg, Isaac, New York, N. Y. Umbrella and the like article. 1,707,473; Apr. 2.
- Goldberg, Jacob M. (See Goldberg, Louis B., N. W., and J. M.)
- Goldberg, Jacob M., Denver, Colo. Camp stove. 1,701,879; Feb. 12.
- Goldberg, Louis. (See Schreiberman, H., and Goldberg.)
- Goldberg, Louis B., N. W., and J. M., Denver, Colo. Gasoline camp stove. 1,701,880; Feb. 12.
- Goldberg, Louis B., N. W., and J. M., Denver, Colo. Camp stove. 1,714,264; May 21.
- Goldberg, Max, New York, N. Y. Appliqué textile fabric or similar article. Des. 78,158; Apr. 2.
- Goldberg, Max, New York, N. Y. Appliqué textile fabric or similar article. Des. 80,119; Dec. 17.
- Goldberg, Max, New York, N. Y. Appliqué fabric. 1,723,729; Aug. 6.
- Goldberg, Max, New York, N. Y. Machine for processing fibrous filling materials. 1,735,749; Nov. 12.



- Goldberg, Max W., assignor to Modern Pouring Device Company, Port Washington, Wis. Trunnion-bearing guard. 1,703,231; Feb. 26.
- Goldberg, Max W., assignor to Modern Pouring Device Company, Port Washington, Wis. Metal-pouring device. 1,707,549; Apr. 2.
- Goldberg, Max W., assignor to Modern Pouring Device Company, Port Washington, Wis. Adjustable ladle holder. 1,721,660; July 23.
- Goldberg, Maximilian M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,705,662; Mar. 19.
- Goldberg, Maximilian M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Auditing machine. 1,710,053; Apr. 23.
- Goldberg, Maximilian M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,711,452; Apr. 30.
- Goldberg, Morris. (See Sacks, D., and Goldberg.)
- Goldberg, Morris, Brooklyn, N. Y. Bed-spring guard. 1,708,878; Apr. 9.
- Goldberg, Nathan. (See Goldberg, Louis B., N. W., and J. M.)
- Goldberg, Nathan L., New York, N. Y. Mezuzah. Des. 79,494; Sept. 24.
- Goldberg, Samuel. (See Goldberg, David and S., and Young.)
- Goldberg, Samuel, assignor to Universal Fixture Corporation, New York, N. Y. Metal shelving. 1,741,293; Dec. 31.
- Goldberg, Samuel A., Chicago, Ill. Hosiery. Des. 78,350; Apr. 23.
- Goldberg, Solomon H. (See Flansburg, Peter, assignor.)
- Goldberg, Solomon H., assignor to The Hump Hairpin Manufacturing Company, Chicago, Ill. Hairpin. 1,732,808; Oct. 22.
- Goldberg, Solomon H., and W. H. Hermsdorf, assignors to The Hump Hairpin Manufacturing Co., Chicago, Ill. Method and machine for producing hair-gripping fasteners. 1,709,938; Apr. 23.
- Goldberg, William. (See Goldberg, Louis B., N. W., and J. M.)
- Goldberg, William, Denver, Colo. Camp stove. 1,701,881; Feb. 12.
- Goldberger, Maurice. (See Day, E., and Goldberger.)
- Goldberger, Maurice, Chicago, Ill. Filling and capping machine. 1,699,062; Jan. 15.
- Goldberger, Maurice, Chicago, Ill. Filling and capping machine. 1,719,222; July 2.
- Goldblatt, Henry, Kansas City, Mo. Plasterer's float. 1,699,840; Jan. 22.
- Goldburg, Irving, Suffern, N. Y. Pneumatic tire. 1,711,382; Apr. 30.
- Goldeen, Jacob. (See Edelson, C. Z., Goldeen, and Tarlow.)
- Goldeen, Jacob, Oakland, Calif., C. Z. Edelson and M. D. Tarlow, Portland, Oreg. Handle for mattresses. 1,731,530; Oct. 15.
- Golden, Charles E. (See Anderson, Edward V., assignor.)
- Golden, Daniel J., Brockton, Mass. Cleat for baseball shoes. 1,724,190; Aug. 13.
- Golden, Harry S., Flint, assignor to General Motors Corporation, Detroit, Mich. Rubber motor support. 1,729,381; Sept. 24.
- Golden, Harry S., Flint, assignor to General Motors Corporation, Detroit, Mich. Fuel-pump drive. 1,734,009; Oct. 29.
- Golden, John P., Columbus, Ga. Adjustable shaft hanger. 1,703,767; Feb. 26.
- Golden, Louis J., assignor to B & B Shoe Company, Chicago, Ill. Baby shoe. 1,733,991; Oct. 29.
- Golden, Meyer. (See Barrows, Walter B., assignor.)
- Golden Nugget Sweets. (See Olsen, Andrew, Jr., and J. A., assignors.)
- Goldenberg, Ben Z., Alexandria, Egypt, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Escapement mechanism for typewriters. 1,738,950; Dec. 10.
- Goldensblum, Eva J., New York, N. Y. Undergarment. 1,705,399; Mar. 12.
- Goldfield, Abraham T., Spring Valley, N. Y., assignor to New York Clock Corporation. Clock case. Des. 77,596; Jan. 29.
- Goldfield, Abraham T., Spring Valley, N. Y., assignor to New York Clock Corporation. Clock case. Des. 79,514; Oct. 1.
- Goldfield, Edwin R. (See Horsley, C., and Goldfield.)
- Goldhaber, Jacob, Johnstown, Pa. Bottle or similar article of manufacture. Des. 78,514; May 14.
- Goldhamer, Jacob W., Cleveland, Ohio. Apparatus for manufacturing multiplate condensers. 1,713,696; May 21.
- Goldhammer, Leo, Munich, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Film camera. 1,717,680; June 18.
- Goldhart, Frederick H., Weehawken, N. J. Locking device. 1,714,087; May 21.
- Goldheir, Samuel, Brooklyn, N. Y. Comb-vending machine. 1,734,724; Nov. 5.
- Goldie, Joseph L., assignor, by mesne assignments, to Kleen Kap Corporation, Syracuse, N. Y. Bottle-capping machine. 1,711,838; May 7.
- Golding Bros. Company. (See Haug, Herman, assignor.)
- Golding, John F., Philadelphia, Pa., assignor to United States Nut & Washer Company, Dover, Del. Apparatus for making washers, nut blanks, and the like. 1,728,341; Sept. 17.
- Goldman, Frank L., Mount Vernon, assignor to Carpenter-Goldman Laboratories, Inc., Long Island City, N. Y. Producing animated pictures. 1,715,127; May 28.
- Goldman, Max S., New York, N. Y. Dish or similar article. Des. 77,403; Jan. 8.
- Goldman, Sigmund L., assignor to Red Sun Products Co., Chicago, Ill. Bottle-capping machine. 1,727,057; Sept. 3.
- Goldmann, Henryk, Wilhelmsburg-on-the-Elbe, Germany. Treating antimonial ores. 1,719,657; July 2.
- Goldrick, Albert R., assignor to The Gerson Stewart Corporation, Company, Cleveland, Ohio. Liquid-dispensing valve. 1,699,236; Jan. 15.
- Goldrick, Albert R., assignor to The Gerson Stewart Corporation, Company, Cleveland, Ohio. Liquid-dispensing valve. 1,699,237; Jan. 15.
- Goldrick, Albert R., assignor to The Midland Bank, trustee, Cleveland, Ohio. Mixing pigments. 1,740,979; Dec. 24.
- Goldsborough, John B., Brooklyn, N. Y. Underpinning. 1,698,543; Jan. 8.
- Goldsborough, Shirley L. (See Crichton, L. N., and Goldsborough.)
- Goldsborough, Thaddeus R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pressure-distributing device. 1,699,786; Jan. 22.
- Goldschmidt, Robert, Berlin-Karlshorst, Germany, assignor to General Electric Company. Loading telephone conductor. 1,722,208; July 23.
- Goldschmidt, Robert B., and R. Braillard, Brussels, Belgium, assignors to Radio Corporation of America. Direct-reading radio telegraphic compass. 1,717,679; June 18.
- Goldschmidt, Th., A.-G. (See Sander, Wilhelm, assignor.)
- Goldsholl, Abe. (See Agrillo, Paul, assignor.)
- Goldsmith, Abraham M., New York, N. Y. Incinerator. 1,725,909; Aug. 27.
- Goldsmith, Alfred N., Mount Vernon, N. Y., assignor to Radio Corporation of America. Sound-reproducing machine. 1,702,770; Feb. 19.
- Goldsmith, Alfred N., Mount Vernon, N. Y., assignor to Radio Corporation of America. Radio receiving apparatus. 1,708,539; Apr. 9.
- Goldsmith, Alfred N., Mount Vernon, N. Y., assignor to Radio Corporation of America. Sound-reproducing machine. 1,721,151; July 16.
- Goldsmith, Alfred N., assignor to General Electric Company, New York, N. Y. Radio receiving system. 1,717,201; June 11.
- Goldsmith, Alfred N., New York, and A. F. Van Dyck, Rye, N. Y., assignors to Radio Corporation of America. Electrical signaling system and signaling method. 1,712,036; May 7.
- Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Combined radioreceiver and phonograph reproducer and recorder. 1,724,191; Aug. 13.
- Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Combined electric phonograph recorder and reproducer. 1,735,113; Nov. 12.
- Goldsmith, Bertram J., New York, and A. Brieche, Brooklyn, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Door-latch construction. 1,731,005; Oct. 8.
- Goldsmith, Bertram J., New York, and E. Koeb, Tuckahoe, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Vehicle body. 1,704,041; Mar. 5.
- Goldsmith, Bertram J., and E. Koeb, New York, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Window construction. 1,704,042; Mar. 5.
- Goldsmith, Bertram J., and E. Koeb, New York, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Window regulator. 1,705,110; Mar. 12.
- Goldsmith, Bertram J., New York, and E. Koeb, Tuckahoe, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Vehicle window. 1,706,026; Mar. 19.
- Goldsmith, Bertram J., New York, and E. Koeb, Tuckahoe, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Window construction. 1,706,027; Mar. 19.
- Goldsmith, Bertram J., and E. Koeb, New York, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Window assembly. 1,714,978; May 28.
- Goldsmith, Bertram J., and E. Koeb, New York, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Sheet-metal door. 1,714,979; May 28.
- Goldsmith, Bertram J., and E. Koeb, New York, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Vehicle body. 1,714,980; May 28.
- Goldsmith, Bertram J., and E. Koeb, New York, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Window and door construction. 1,716,043; June 4.



- Goldsmith, Bertram J., New York, and E. Koeb, Tuckahoe, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Window. 1,716,044; June 4.
- Goldsmith Bros. Smelting & Refining Company. (See Goldsmith, M. M., and Falck, assignors.)
- Goldsmith, Byron B., deceased; G. A. Spiegelberg, executor, assignor to American Lead Pencil Company, New York, N. Y. Varnish-drying machine. 1,732,332; Oct. 22.
- Goldsmith, Byron B., New York, and H. Grossman, Bronx, N. Y., assignors to The American Lead Pencil Company. Pencil lead and making same. 1,738,888; Dec. 10.
- Goldsmith, Chester L., and B. F. Wood, Winchester, N. H. Operating means for curtains. 1,721,622; July 23.
- Goldsmith, Edgar M. (See Howarth, John F., assignor.)
- Goldsmith, Edgar M. (See Howarth, J. F., and Goldsmith.)
- Goldsmith, Edwin M., assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Reel for coiled strips of fabric. 1,717,104; June 11.
- Goldsmith, Edwin M. and H. F., assignors to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Garter packing and exhibiting device. 1,713,652; May 21.
- Goldsmith, Henry F. (See Goldsmith, Edwin M. and H. F.)
- Goldsmith, Henry F., Philadelphia, Pa. Chart. 1,740,978; Dec. 24.
- Goldsmith, Henry F., assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Combination gift card and other article of merchandise. 1,714,774; May 28.
- Goldsmith, Hugo, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Athletic protective device. 1,740,171; Dec. 17.
- Goldsmith, Melvin M., and W. H. Falck, Chicago, Ill.; said Falck assignor to Goldsmith Bros. Smelting & Refining Company. Ruthenium alloy. 1,730,003; Oct. 1.
- Goldsmith, P., Sons Company, The. (See Goldsmith, Hugo, assignor.)
- Goldsmith Metal Lath Company, The. (See Goldsmith, William M., assignor.)
- Goldsmith, Samuel R., Brooklyn, N. Y. Hand pocketbook and bag. 1,735,043; Nov. 12.
- Goldsmith, William M., assignor to The Goldsmith Metal Lath Company, Cincinnati, Ohio. Concrete-floor construction. 1,729,612; Oct. 1.
- Goldsmith, William M., assignor to The Goldsmith Metal Lath Company, Cincinnati, Ohio. Ceiling elements for concrete floor construction. 1,732,303; Oct. 22.
- Goldstein, Aaron A., Buffalo, N. Y. Fastener for bracelets. 1,699,887; Jan. 22.
- Goldstein, Adolph O., assignor to Sno-Ko Inc., Santa Cruz, Calif. Casing for an ice-shaving machine. Des. 80,078; Dec. 10.
- Goldstein, Adolph O., assignor to Sno-Ko Inc., Santa Cruz, Calif. Ice-cutting machine. 1,741,053; Dec. 24.
- Goldstein, Albert M. (See Fischer, P. A., Schoen, and Goldstein.)
- Goldstein, Carl M., assignor to Carl Lindstrom Aktiengesellschaft, Berlin, Germany. Sound duct for talking machines. 1,705,663; Mar. 19.
- Goldstein, Ewald, Bonn, and E. Mayer, Troisdorf, Germany. Closure for bottles and like receptacles. 1,722,909; July 30.
- Goldstein, Jankel, and B. Rosenthal, Chicago, Ill. Wedding ring. Des. 77,688; Feb. 12.
- Goldstein, Jankel, and B. Z. Rosenthal, Chicago, Ill. Wedding ring. 79,555; Oct. 8.
- Goldstein, Joseph M. (See Fischer, P. A., Schoen, and Goldstein.)
- Goldstein, Louis, Union City, N. J. Textile fabric. Des. 80,079; Dec. 10.
- Goldstein, Maurice, assignor to Franco-American Shoe Ornament Company, Philadelphia, Pa. Holder for shoe ornaments. 1,728,963; Sept. 24.
- Goldstein, Max H., Chicago, Ill. Conducting electricity for motor vehicles. 1,738,889; Dec. 10.
- Goldstein, Nathan S., et al. (See Rubin, Abraham J., assignor.)
- Goldstine, Harry. (See Gustafson, Adolph P., assignor.)
- Goldstraw, William H., Cobden, Victoria, Australia. Wrench. 1,714,018; May 21.
- Goldstraw, William H., Cobden, Australia. Adjustable pipe wrench. 1,726,064; Aug. 27.
- Goldsworthy, John S. (See Opie, E. J., and Goldsworthy.)
- Goldthwaite, George R., South Easton, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Fan casing. 1,707,719; Apr. 2.
- Goldworthy, Robert E., Providence, R. I. Identification tag for key rings. 1,714,421; May 21.
- Goldwyn Brothers. (See Goldwyn, George I.)
- Goldwyn, George I., et al. (See Goldwyn, George I., assignor.)
- Goldwyn, George I., assignor to G. I. and H. Goldwyn, Chicago, Ill., doing business as Goldwyn Brothers. Folding armchair. 1,703,879; Mar. 5.
- Goliash, G., & Co. (See Bastian, Georg, assignor.)
- Golinko, Philip, New York, N. Y. Skirt. Des. 77,404; Jan. 8.
- Golladay, Lawrence R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Sealed joint. 1,714,360; May 21.
- Golladay, Lawrence R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning arrester. 1,728,559; Sept. 17.
- Golladay, Lawrence R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning-arrester unit. 1,734,208; Nov. 5.
- Golladay, Oscar L. (See Pearson, Swan, assignor.)
- Gollmar, Herbert A., East Orange, N. J., assignor to The Koppers Company. Gas-purification process. 1,719,177; July 2.
- Gollmar, Herbert A., East Orange, N. J., assignor to The Koppers Company. Gas-purification process. 1,719,762; July 2.
- Gollmar, Herbert A., East Orange, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Aeration apparatus and method. 1,726,892; Sept. 3.
- Gollnick, Paul A., C. E. Ives, F. W. Broderick, and F. C. Arey, assignors, by mesne assignments, to Selectograph Company, Chicago, Ill. Adjustable platen for addressing machines. 1,737,878; Dec. 3.
- Gollnick, Paul A., and J. J. Toolan, assignors to Spiegel, May, Stern Co., Chicago, Ill. Card and stencil holder for typewriting machines. 1,720,955; July 16.
- Gollnick, Paul A., J. J. Toolan, and C. G. Kranz, assignors to Spiegel, May, Stern Company, Chicago, Ill. Selector mechanism. 1,708,268; Apr. 9.
- Golovtchikoff, Alexander A., Tokyo-Fu-Ka, assignor of one-half to S. I. Ono, Tokyo, Japan. Fire grate with movable hollow fire bars. 1,701,613; Feb. 12.
- Gorrick, Albert R., Shaker Heights, Ohio, assignor to The Oxford Varnish Corporation, Detroit, Mich. Making graining plates. 1,720,727; July 16.
- Gorlick, Albert R., Shaker Heights, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich. Printing element and producing the same. 1,723,612; Aug. 6.
- Goltstein, Ewald, Bonn-on-the-Rhine, assignor to Bremer & Bruckmann Aktiengesellschaft, Braunschweig, Germany. Closure for bottles, jars, and the like. 1,709,260; Apr. 16.
- Gombar, Joseph, Detroit, Mich. Davenport. 1,741,153; Dec. 31.
- Gommese, Arthur, Grand Rapids, Mich., assignor to The Kiel Furniture Company, Milwaukee, Wis. Radio table. Des. 79,651; Oct. 22.
- Gommese, Arthur, Grand Rapids, Mich., assignor to The Kiel Furniture Company, Milwaukee, Wis. Radiatable. Des. 79,959; Nov. 26.
- Gommese, Arthur, Grand Rapids, Mich., assignor to The Kiel Furniture Company, Milwaukee, Wis. Radiatable. Des. 79,960; Nov. 26.
- Gommese, Arthur, Grand Rapids, Mich., assignor to The Kiel Furniture Company, Milwaukee, Wis. Radiatable. Des. 79,961; Nov. 26.
- Gommese, Arthur, Grand Rapids, Mich., assignor to The Kiel Furniture Company, Milwaukee, Wis. Radiatable. Des. 79,962; Nov. 26.
- Gompertz, Josef, Krefeld, Germany. Tie holder. 1,729,266; Sept. 24.
- Gompf, Gustav R., Berlin, Germany. Manifold sales book. 1,742,067; Dec. 31.
- Gompf, Rudolf, Berlin, Germany. Machine for manufacturing triplicate notebooks. 1,707,907; Apr. 2.
- Gonce, John W., Anderson, Tenn. Acoustical device. 1,717,202; June 11.
- Gong Bell Manufacturing Company. (See Conklin, John H., assignor.)
- Gong Bell Manufacturing Company. (See Watrous, Clifford M., assignor.)
- Gonser, Bruce W., Woodbridge, N. J., and C. W. Haffey, Selby, Calif., assignors to American Smelting and Refining Company, New York, N. Y. Lead refining. 1,726,346; Aug. 27.
- Gonta, Daniel. (See Debenham, A., and Gonta.)
- Gonyk, Ignatz, Ljubljana, Yugoslavia. Bolt lock. 1,711,345; Apr. 30.
- Gonyk, Ignatz, Vienna, Austria. Night lamp. 1,728,055; Sept. 10.
- Gonzales, Frank, Belview, Minn. Puzzle. 1,726,952; Sept. 3.
- Gonzales, Manuel C., Mexico, Mex. Air compressor. 1,734,292; Nov. 5.
- González, Pedro M., and J. A. Silva, Habana; said González assignor of one-half to E. A. Novoa, Marianao, Cuba. Windmill. 1,722,845; July 30.
- Gooch, Frederick W. (See Oliver, R., and Gooch.)
- Gooch, George A., assignor of one-half to L. T. Frederick, Valparaiso, Ind. Tobacco can. 1,707,301; Apr. 2.
- Good, Cecil E., Wichita, Kans. Float. 1,726,736; Sept. 3.
- Good, Charles H. (See Stringham, John H., assignor.)
- Good, Daniel F., assignor to Frick Company, Waynesboro, Pa. Belt tightener for sawmill feed mechanism. 1,707,119; Mar. 26.
- Good Inventions Co. (See Good, John, assignor.)
- Good Inventions Co. (See Good, J., and Olsen, assignors.)
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Burner-carburetor apparatus. 1,704,565; Mar. 5.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Oil-burner-control mechanism. 1,707,632; Apr. 2.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Burner carburetor combination. 1,711,938; May 7.



- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Internal-combustion-engine valve. 1,719,508; July 2.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Method and apparatus for operating internal-combustion engines. 1,722,288; July 30.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Oil-burning apparatus. 1,723,031; Aug. 6.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Engine-cooling system. 1,724,472; Aug. 13.
- Good, John, Garden City, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y. Combustion apparatus. 1,733,792; Oct. 29.
- Good, John, Garden City, and E. H. Olsen, assignors to Good Inventions Co., New York, N. Y. Oil-burner system. 1,708,918; Apr. 9.
- Good, John N. (See Thomas, T. H., and Good.)
- Good, Milton, Ephrata, Pa. Windshield heater. 1,719,264; July 2.
- Good, Robert, Washington, Pa., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Rotary vertical leer. 1,712,205; May 7.
- Goodactive, Nils E., Chicago, Ill. Cone-belt-shifting mechanism. 1,717,506; June 18.
- Goodall, Charles, Tutbury, England. Drying and/or otherwise treating timber. 1,721,297; July 16.
- Goodall, Fred E., and R. H. Van Sant, Chicago, Ill. Apparatus for treating fluid with ultraviolet light. 1,735,610; Nov. 12.
- Goodbar, Joseph E., Boston, Mass. Greeting-card mailing and display envelope. 1,738,182; Dec. 3.
- Goodby, Albert E. (See Curran, Joseph S., assignor.)
- Goode, Gilbert C., East Cleveland, assignor to The White Motor Company, Cleveland, Ohio. Vibration-reducing means. 1,700,477; Jan. 29.
- Goode, Gilbert C., East Cleveland, assignor to The White Motor Company, Cleveland, Ohio. Supercharger. 1,704,082; Mar. 5.
- Goodell, Alfred P., Salem, and G. W. Tarr, Everett, Mass. Water paint. 1,700,404; Jan. 29.
- Goodell-Pratt Company. (See Arnold, George A., assignor.)
- Goodell-Pratt Company. (See Farley, Fred E., assignor.)
- Goodell-Pratt Company. (See Wilcox, George R., assignor.)
- Goodell, Richard C., Santa Barbara, Calif. Stirrer. 1,710,417; Apr. 23.
- Goodell, William S. (See Rasmussen, A., and Goodell.)
- Goodell, William S., assignor, by mesne assignments, of one-half to A. Rasmussen, Racine, Wis. Barbecue meat roaster. 1,732,010; Oct. 15.
- Goodenough, James F., Corpus Christi, Tex. Safety crossing. 1,715,231; May 28.
- Goeder, Seth M., Chicago, Ill. Underpinning and making the same. 1,705,612; Mar. 19.
- Gooderham, John W., Larchmont, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical controlling device. 1,738,293; Dec. 3.
- Gooderham, John W., Larchmont, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,738,294; Dec. 3.
- Goodfellow, Alfred, assignor to C. E. Huston, Coatesville, Pa. Fine adjustment and alignment for approach tables. 1,723,505; Aug. 6.
- Goodfellow, Thomas F., and K. E. Hofmann, Altoona, Pa. Gasket. 1,698,192; Jan. 8.
- Gooding, George E. (See Robinson, J. T., and Gooding.)
- Gooding, George E., assignor to John T. Robinson Company, Boston, Mass. Mechanism for adjusting creasing rolls. 1,714,715; May 28.
- Gooding, George E., assignor to John T. Robinson Company, Boston, Mass. Counting mechanism. 1,723,344; Aug. 6.
- Goodknight, Alva L., Fort Worth, Tex. Air-brake mechanism. 1,736,910; Nov. 26.
- Goodlin, David D., Salinas, Calif. Hay loading and stacking machine. 1,723,506; Aug. 6.
- Goodling, Daniel W. (See Strawser, George A., assignor.)
- Goodloe, Alfred M., Bradford, Pa., assignor to American Kreuger & Toll Corporation, New York, N. Y. Filter medium for air and gases. 1,700,126; Jan. 29.
- Goodman, Abraham, New York, and J. Goodman, Brooklyn, N. Y. Barrette. 1,704,737; Mar. 12.
- Goodman, Abraham, New York, and J. Goodman, Brooklyn, N. Y. Hair waver. 1,704,738; Mar. 12.
- Goodman, Abraham, New York, and J. Goodman, Brooklyn, N. Y. Hair-ends waver. 1,739,301; Dec. 10.
- Goodman, Benedict, Holly, Colo. Swing chair. Des. 78,018; Mar. 19.
- Goodman, Jacob. (See Goodman, Abraham and J.)
- Goodman, Joseph, Whitteville, assignor to The Mt. Carmel Manufacturing Company, Mt. Carmel, Conn. Shade roller. 1,726,393; Aug. 27.
- Goodman, Louis, San Francisco, Calif. Grease-dispensing device. 1,721,817; July 23.
- Goodman, Mabel, et al. (See Vroman, John C., assignor.)
- Goodman Manufacturing Company. (See Crawford, Loyal F., assignor.)
- Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
- Goodman Manufacturing Company. (See Esseltine, Alfred B., assignor.)
- Goodman Manufacturing Company. (See Poole, Clarence F., assignor.)
- Goodman Manufacturing Company. (See Pratt, Charles A., assignor.)
- Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
- Goodman Manufacturing Company. (See Sloane, William W., assignor.)
- Goodman, Max, New York, N. Y. Garment. 1,713,121; May 14.
- Goodman, William H., Kensington, London, England, assignor, by mesne assignments, to Dubilier Condenser Corporation. Connecting the insulating and metal parts of insulators. 1,699,141; Jan. 15.
- Goodner, James A., Rocky Ford, Colo. Pump. 1,717,969; June 18.
- Goodrich, B. F., Company, The. (See Bauman, Harry A., assignor.)
- Goodrich, B. F., Company, The. (See Bauman, H. A., and Higgins, assignors.)
- Goodrich, B. F., Company, The. (See Bedford, Clayton W., assignor.)
- Goodrich, B. F., Company, The. (See Blaker, Ernest, assignor.)
- Goodrich, B. F., Company, The. (See Bodie, Virgil H., assignor.)
- Goodrich, B. F., Company, The. (See Davidson, Elias E., assignor.)
- Goodrich, B. F., Company, The. (See Evans, Benjamin A., assignor.)
- Goodrich, B. F., Company, The. (See Evans, Walter W., assignor.)
- Goodrich, B. F., Company, The. (See Fisher, Harry L., assignor.)
- Goodrich, B. F., Company, The. (See Fisher, H. L., and Geer, assignors.)
- Goodrich, B. F., Company, The. (See Flaherty, Rupert E., assignor.)
- Goodrich, B. F., Company, The. (See Foerstner, George E., assignor.)
- Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
- Goodrich, B. F., Company, The. (See Gandee, Otmer, assignor.)
- Goodrich, B. F., Company, The. (See Geer, William C., assignor.)
- Goodrich, B. F., Company, The. (See Geer, W. C., and Fisher, assignors.)
- Goodrich, B. F., Company, The. (See Geer, W. C., and Winkelmann, assignors.)
- Goodrich, B. F., Company, The. (See Goodwin, J. O., and Leguillon, assignors.)
- Goodrich, B. F., Company, The. (See Gray, Harold, assignor.)
- Goodrich, B. F., Company, The. (See Harley, Jacob F., assignor.)
- Goodrich, B. F., Company, The. (See Haushalter, Fred L., assignor.)
- Goodrich, B. F., Company, The. (See Hogan, John F., assignor.)
- Goodrich, B. F., Company, The. (See Howe, Arthur J., assignor.)
- Goodrich, B. F., Company, The. (See Jones, Paul C., assignor.)
- Goodrich, B. F., Company, The. (See Kepler, Irwin F., assignor.)
- Goodrich, B. F., Company, The. (See Lebesnerols, Henri, assignor.)
- Goodrich, B. F., Company, The. (See Leguillon, Charles W., assignor.)
- Goodrich, B. F., Company, The. (See L'Hollier, L. H., and Wray, assignors.)
- Goodrich, B. F., Company, The. (See Maranville, Alger G., assignor.)
- Goodrich, B. F., Company, The. (See Martin, Frederick H., assignor.)
- Goodrich, B. F., Company, The. (See Matthias, Gilbert L., assignor.)
- Goodrich, B. F., Company, The. (See McClellan, Joseph J., assignor.)
- Goodrich, B. F., Company, The. (See Mell, Tod J., assignor.)
- Goodrich, B. F., Company, The. (See Merz, Christian J., assignor.)
- Goodrich, B. F., Company, The. (See Richardson, Charles M., assignor.)
- Goodrich, B. F., Company, The. (See Robb, Arthur A., assignor.)
- Goodrich, B. F., Company, The. (See Rogers, Bruce W., assignor.)
- Goodrich, B. F., Company, The. (See Scrote, Merle C., assignor.)
- Goodrich, B. F., Company, The. (See Semon, W. L., and Sloan, assignors.)
- Goodrich, B. F., Company, The. (See Shank, McConnell, assignor.)
- Goodrich, B. F., Company, The. (See Sternad, Frank S., assignor.)
- Goodrich, B. F., Company, The. (See Trumbull, Harlan L., assignor.)
- Goodrich, B. F., Company, The. (See Waner, Harry E., assignor.)
- Goodrich, B. F., Company, The. (See Winkelmann, Herbert A., assignor.)
- Goodrich, B. F., Company, The. (See Wray, Frederick, assignor.)



- Goodrich, B. F., Company, The. (See Young, Harvey L., assignor.)
- Goodrich, Blaine F., Muncie, Ind. Table. 1,720,123; July 9.
- Goodrich, Charles H., Whipple, Ariz. Steam-superheating plant. 1,738,890; Dec. 10.
- Goodrich, Chauncey M., Windsor, Ontario, Canada. Tower arm. 1,740,398; Dec. 17.
- Goodrich, Francis H. (See Jandus, H. S., and Goodrich.)
- Goodrich, Francis H., assignor to The C. G. Spring and Bumper Company, Detroit, Mich. Bumper. 1,698,696; Jan. 8.
- Goodrich, Francis H., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. 1,699,428; Jan. 15.
- Goodrich, Francis H., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,715,652; June 4.
- Goodrich, Joseph F., Everett, Wash. Aeroplane. 1,723,479; Aug. 6.
- Goodrich, Norris E., assignor to Sanitarium Equipment Company, Battle Creek, Mich. Pedestal for an exercising machine. Des. 77,951; Mar. 12.
- Goodrich, Norris E., assignor to Sanitarium Equipment Company, Battle Creek, Mich. Cabinet. Des. 78,621; May 28.
- Goodrich, Norris E., assignor to Sanitarium Equipment Company, Battle Creek, Mich. Casing for an exercising machine. Des. 78,705; June 11.
- Goodrich, Norris E., assignor to Sanitarium Equipment Company, Battle Creek, Mich. Table or analogous article. Des. 79,950; Nov. 19.
- Goodrich, Norris E., assignor to Sanitarium and Hospital Equipment Co., Battle Creek, Mich. Arc-lamp apparatus. 1,707,004; Mar. 26.
- Goodrich, Norris E., assignor to Sanitarium and Hospital Equipment Co., Battle Creek, Mich. Therapeutic light apparatus. 1,711,839; May 7.
- Goodrich, Norris E., assignor, by mesne assignments, to Sanitarium Equipment Company, Battle Creek, Mich. Light-treatment apparatus. 1,717,447; June 18.
- Goodrich, Norris E., assignor to Sanitarium Equipment Company, Battle Creek, Mich. Therapeutic lamp. 1,735,679; Nov. 12.
- Goodrich, Norris E., assignor to Sanitarium & Hospital Equipment Co., Battle Creek, Mich. Light-treatment apparatus. 1,739,509; Dec. 17.
- Goodrich, Ralph H., Owego, N. Y., assignor, by mesne assignments, to The Union Trust Company. Power-transmitting mechanism. 1,705,111; Mar. 12.
- Goodrick, Perry C., assignor to Canvas Products Corporation, Fond du Lac, Wis. Can Jacket. 1,729,438; Sept. 24.
- Goodridge, Gilbert W., Fairfield, assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Wiring contact pins. 1,702,254; Feb. 12.
- Goodridge, Gilbert W., Fairfield, assignor to The Bryant Electric Company, Bridgeport, Conn. Lamp socket. 1,706,226; Mar. 19.
- Goodridge, Gilbert W., Fairfield, assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Attaching means. 1,711,883; Apr. 30.
- Goodridge, Gilbert W., Fairfield, assignor to the Bead Chain Manufacturing Company, Bridgeport, Conn. Chain coupling. 1,724,835; Aug. 13.
- Goodridge, Gilbert W., Fairfield, and G. B. Thomas, assignors to The Bryant Electric Company, Bridgeport, Conn. Lamp socket. 1,738,366; Dec. 3.
- Good Roads Company. (See Hayden, Benjamin F., assignor.)
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. 1,708,943; Apr. 16.
- Goodspeed, Arthur B., Newark, N. J. Oil burner. 1,733,593; Oct. 29.
- Goodspeed, Charles A., Detroit, assignor to W. W. Blakeley, Dexter, Mich. Vehicle anchorage device. 1,699,290; Jan. 15.
- Goodspeed, Charles A., Detroit, assignor to W. W. Blakeley, Dexter, Mich. Loose-link construction. 1,718,348; June 25.
- Goodspeed, Elvin S., assignor to General Motors Corporation, Detroit, Mich. Arc welding. 1,738,573; Dec. 10.
- Goodspeed, George D., Gardner, assignor to Heywood-Wakefield Company, Boston, Mass. Harness for reed-weaving looms. 1,697,645; Jan. 1.
- Goodspeed, George D., Gardner, assignor to Heywood-Wakefield Company, Boston, Mass. Stop motion for looms. 1,732,809; Oct. 22.
- Goodspeed, George D., Gardner, assignor to Heywood-Wakefield Company, Boston, Mass. Stop motion for looms. 1,734,252; Nov. 5.
- Goodspeed Investment Company et al. (See Hawley, John B., jr., assignor.)
- Goodspeed Investment Company. (See Williams, Chester I., assignor.)
- Goodspeed, Leland F. (See Gleason, F. H., and Goodspeed.)
- Goodspeed, Leland F., Kalamazoo, Mich. Taxicab control. 1,717,602; June 18.
- Goodspeed Machine Company. (See Witt, John J., assignor.)
- Goodstein, Herman B., New York, N. Y. Stock ticker. 1,731,376; Oct. 15.
- Goodstein, Joseph, New York, N. Y. Comforter or similar article. Des. 79,422; Sept. 17.
- Goodstein, William L., New York, N. Y. Buffing device. Re17,366; July 9.
- Goodwin, Alan M., Boston, Mass., assignor to General Electric Company. Regulating system. 1,709,616; Apr. 16.
- Goodwin, Benjamin F., Ridgefield Park, N. J. Food connection. 1,727,342; Sept. 10.
- Goodwin Brothers Automobile Company. (See Bennett, William F., assignor.)
- Goodwin, Bruce S. (See Slider, J. A., and Goodwin.)
- Goodwin, C. L. (See Gray, William C., assignor.)
- Goodwin, Clarence N., Raleigh, N. C. Cotton-harvesting machine. 1,723,151; Aug. 6.
- Goodwin, Elizabeth M., Los Angeles, assignor to Process Development Company, Long Beach, Calif. Hot-water bottle or similar article. Des. 79,134; Aug. 6.
- Goodwin, George I., assignor to General Motors Research Corporation, Detroit, Mich. Two-speed steering gear. 1,717,681; June 18.
- Goodwin, George S., and W. J. Tollerton, deceased, by C. H. Tollerton, executrix, Chicago, Ill. Car frame. 1,741,188; Dec. 31.
- Goodwin, John E., Harpfields, Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y. Plate or similar article. Des. 78,515; May 14.
- Goodwin, John O., Akron, assignor to Seiberling Rubber Company, Barberton, Ohio. Rubber heel. 1,738,048; Dec. 3.
- Goodwin, John O., and C. W. Leguillon, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Molding apparatus. 1,731,006; Oct. 8.
- Goodwin, Walter C., Evansville, Ind. Combination scaffold bracket. 1,701,301; Feb. 5.
- Goodwin, William M., Central Square, N. Y. Poppet-valve action for internal-combustion engines. 1,741,230; Dec. 31.
- Goodwin, William N., jr., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Testing vacuum tubes. 1,704,566; Mar. 5.
- Goodwin, William N., jr., and C. H. Bartlett, assignors to Western Electrical Instrument Corporation, Newark, N. J. Testing vacuum tubes of the audion type. 1,716,227; June 4.
- Goodyear, Charles H., Portland, Oreg. Foldable vending tray for ice-cream cones and other articles. 1,713,961; May 21.
- Goodyear, Claude E., Kidderminster, assignor to The Dunlop Rubber Company Limited, Erdington, Birmingham, England. Apparatus for use in the manufacture of wheels, such as the road wheels of vehicles. 1,706,288; Mar. 19.
- Goodyear Tire & Rubber Company, The. (See Bruce, Nigel G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Burdette, Richard S., assignor.)
- Goodyear Tire & Rubber Company, The. (See Calvert, William C., assignor.)
- Goodyear Tire & Rubber Company, The. (See Campbell, Wallace H., assignor.)
- Goodyear Tire & Rubber Company, The. (See Clifford, Albert M., assignor.)
- Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
- Goodyear Tire & Rubber Company, The. (See Dinsmore, Ray P., assignor.)
- Goodyear Tire & Rubber Company, The. (See Eberhart, Boyd C., assignor.)
- Goodyear Tire & Rubber Company, The. (See Evans, Rho D., assignor.)
- Goodyear Tire & Rubber Company, The. (See Gerster-slager, William H., assignor.)
- Goodyear Tire & Rubber Company, The. (See Haase, Jorgen I., assignor.)
- Goodyear Tire & Rubber Company, The. (See Hastings, S. H., and Hall, assignors.)
- Goodyear Tire & Rubber Company, The. (See Jenkinson, Ross E., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kimmich, Elmer G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kirk, Raphael S., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
- Goodyear Tire & Rubber Company, The. (See Litchfield, Paul W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Maas, Elos F., assignor.)
- Goodyear Tire & Rubber Company, The. (See Maas, E. F., and Templeton, assignors.)
- Goodyear Tire & Rubber Company, The. (See Messer, Vladimir V., assignor.)
- Goodyear Tire & Rubber Company, The. (See Meyer, F. H., and Klaus, assignors.)
- Goodyear Tire & Rubber Company, The. (See Sebrrell, Lorin B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Shively, Jess A., assignor.)
- Goodyear Tire & Rubber Company, The. (See Shively, Walter E., assignor.)
- Goodyear Tire & Rubber Company, The. (See Snyder, Robert W., assignor.)
- Goodyear Tire & Rubber Company, The. (See State, Will C., assignor.)
- Goodyear Tire & Rubber Company, The. (See Stephens, William, assignor.)



- Goodyear Tire & Rubber Company, The. (See Tiffany, John B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Van Rennes, Cornelis, assignor.)
- Goodyear Tire & Rubber Company, The. (See Wetmore, Laurence, assignor.)
- Goodyear Tire & Rubber Company, The. (See Williams, Dayton L., assignor.)
- Goodyear-Zeppelin Corporation. (See Helma, Paul, assignor.)
- Goodyear-Zeppelin Corporation. (See Hilligardt, E., and Schnitzer, assignors.)
- Goodyear-Zeppelin Corporation. (See Hürttle, Karl, assignor.)
- Goodyear-Zeppelin Corporation. (See Liebert, H. R., and Schoettel, assignors.)
- Goodyear-Zeppelin Corporation. (See Schnitzer, Benjamin, assignor.)
- Goodyear's India Rubber Glove Manufacturing Company, The. (See Manville, Henrietta P., assignor.)
- Goodyear's India Rubber Glove Mfg. Company, The. (See Pipes, Walter L., assignor.)
- Goodyear's India Rubber Glove Mfg. Company, The. (See Porr, Henrietta C., assignor.)
- Goodykoontz, Frank A., assignor of one-half to J. H. Bates, Tracy, Calif. Radiator protector. 1,706,447; Mar. 26.
- Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,705,613; Mar. 19.
- Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,722,286; July 30.
- Goolsby, Neal T., assignor of one-half to H. Dunkley, Fresno, Calif. Attachment for sucker rods. 1,727,284; Sept. 3.
- Goosmann, Justic C., Chicago, Ill. Refrigerating apparatus. 1,701,753; Feb. 12.
- Goosmann, Justus C., Chicago, Ill. Pressure-actuated valve. 1,725,910; Aug. 27.
- Goost, Theodor. (See Lommel, W., and Goost.)
- Goranson, Albert E., and M. E. Willene, assignors to Rockford Drilling Machine Company, Rockford, Ill. Friction clutch. 1,713,278; May 14.
- Gorbald, Roland, Hillside, Great Houghton, England. Combined sole and heel. Des. 79,709; Oct. 29.
- Gorbitt, Sidney B., assignor to Williamette Iron and Steel Works, Portland, Oreg. Friction thrust for cable drums. 1,701,614; Feb. 12.
- Gorbitt, Sidney B., assignor, by mesne assignments, to Williamette-Ersted Company, Portland, Oreg. Support and anchor for tractor hoists. 1,737,840; Dec. 3.
- Gordée, Charles, Revere, Mass. Partition. 1,729,439; Sept. 24.
- Gordenier, William H., St. Paul, Minn. Airplane toy. Des. 78,622; May 28.
- Gordon, Albert A. (See Shutt, J. R., and Gordon.)
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing magazine. 1,707,394; Apr. 2.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom dobbie. 1,711,595; May 7.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Comb and fingers for loom dobbies. 1,716,046; June 4.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Finger for loom dobbies. 1,716,047; June 4.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tube frame for Axminster looms. 1,724,277; Aug. 13.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lock for take-ups for looms. 1,726,821; Sept. 3.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread-cutting mechanism for looms. 1,733,191; Oct. 29.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lint clearer for filling stop motions. 1,734,086; Nov. 5.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Two-weave dobbie. 1,737,654; Dec. 3.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Name dobbie for looms. 1,737,655; Dec. 3.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Automatic weft-replenishing loom. 1,739,224; Dec. 10.
- Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism for looms. 1,739,225; Dec. 10.
- Gordon, Albert A., and A. F. Morrell, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutting and removing mechanism. 1,716,045; June 4.
- Gordon, Ben E., and L. Hatcher, Trinidad, Colo. Signal. Des. 78,402; May 7.
- Gordon, Benjamin, Philadelphia, Pa. Toy. 1,729,214; Sept. 24.
- Gordon, Chester S., New York, N. Y., assignor to American Telephone and Telegraph Company. Insulator. 1,701,561; Feb. 12.
- Gordon, Chester S., New York, N. Y., assignor to American Telephone and Telegraph Company. Insulator. 1,701,562; Feb. 12.
- Gordon, Chester S., New York, N. Y., assignor to American Telephone and Telegraph Company. Thermoscope. 1,703,880; Mar. 5.
- Gordon-Cumming, Michael W., Winslow, England. Multiple-record machine. 1,701,450; Feb. 5.
- Gordon, David D., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Snap switch. 1,700,842; Feb. 5.
- Gordon, David D., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Switch-controlled candle socket. 1,711,266; Apr. 30.
- Gordon, David D., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Adjustable candle-socket mounting. 1,734,572; Nov. 5.
- Gordon, Fred W. (See Wolf, Max, assignor.)
- Gordon, George B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Corner-bridle-ring support. 1,697,061; Jan. 1.
- Gordon, Gilbert A., Augusta, Kans. Barber-chair attachment. 1,707,120; Mar. 29.
- Gordon, Griffith L. (See Mantle, D. L., and Gordon.)
- Gordon, Harry J., Detroit, Mich., assignor to The Dryden Rubber Company. Door-pocket band. 1,715,702; June 4.
- Gordon, Hiram. (See Rogge, A. C., and Gordon.)
- Gordon, James, Chicago, Ill. Calendar case. Des. 77,597; Jan. 29.
- Gordon, James G., Oakland, Calif. Paper clip. Des. 77,689; Feb. 12.
- Gordon, John W., assignor to A. C. Ionides, London, England. Optical instrument. 1,722,209; July 23.
- Gordon, Joseph P., et al. (See Dalrymple, William P., assignor.)
- Gordon, Julius, Scotia, N. Y., assignor to General Electric Company. Switch truck panel. 1,706,114; Mar. 19.
- Gordon, Louis. (See Sundock, Philip, assignor.)
- Gordon, Louis W., New York, N. Y. Ornament mounting. 1,733,257; Oct. 29.
- Gordon, Morris L., Burlingame, Calif. Composite bituminous pavement and laying the same. 1,717,769; June 18.
- Gordon, Roy F. (See Petersen, John F., assignor.)
- Gordon, Samuel, Brooklyn, N. Y. Aircraft novelty. 1,718,349; June 25.
- Gordon, William, New York, N. Y. Cigar lighter. Des. 79,135; Aug. 6.
- Gordon, William A., jr. (See Proctor, George A., assignor.)
- Gordon, William A., jr., and S. W. Hickman, Almota, Wash. Weeder. 1,731,304; Oct. 15.
- Gordyn, Cornelius, jr. (See Snyders, G. C., Gordyn, van de Kamp, and Maitland.)
- Gore, Catherine, administratrix. (See Gore, Harry S.)
- Gore, Harry S., deceased, Midwest, Wyo., C. Gore, administratrix. Fishing tool. 1,707,082; Mar. 26.
- Goree, James L. (See McAneny, Michael J., assignor.)
- Gorenflo, Oscar W., Buffalo, N. Y. Stovepipe ventilating thimble. 1,730,421; Oct. 8.
- Gorham Mfg. Co. (See Staf, Axel H., assignor.)
- Gorham, Sidney S., Trustee. (See Baur, H. J., and Thompson, assignors.)
- Gorham, Standish B., New York, N. Y. Decalcomania. 1,714,503; May 28.
- Gorin, Frederick P., Seattle, Wash. Banking stop for typewriters. 1,734,518; Nov. 5.
- Gorkin, Boris, Plainfield, N. J. Corner or division bar for show windows or the like. 1,708,414; Apr. 9.
- Gorman, Chester J., West Bend, Wis. Fishhook. 1,713,122; May 14.
- Gorman, Edward J., Roanoke, Va. Emergency obstruction indicator for railway tracks. 1,712,206; May 7.
- Gorman, Henry B., Lynchburg, Va., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and manufacturing the same. 1,702,382; Feb. 19.
- Gorman, Horace P., Rye, N. Y. Soap-paste dispenser. 1,703,032; Feb. 19.
- Gormley, Frank L., Chicago, assignor to The Buda Company, Harvey, Ill. Safety device for screw jacks. 1,737,153; Nov. 26.
- Gormley, Frank L., Chicago, and J. Bulik, assignors to The Buda Company, Harvey, Ill. Safety device for screw jacks. 1,698,054; Jan. 8.
- Gormley, Frank L., Brookline, Mass., assignor to The Buda Company, Harvey, Ill. High-speed self-lowering lifting jack. 1,698,053; Jan. 8.
- Gornicec, Emil, Youngstown, Ohio. Padlock. 1,714,019; May 21.
- Gornstein, Morris, New York, N. Y., assignor to Universal Fringe Works, Inc. Braid for curtains, lampshades, or the like. Des. 79,710; Oct. 29.
- Gorrell, William R., Alhambra, assignor of one-half to H. Barkschat, Los Angeles, Calif. Work-holding device. 1,725,072; Aug. 20.
- Gorrell, William T., Crowell, Tex. Signal. 1,719,697; July 2.
- Gorse, Frank W., Needham, Mass. Stocking. 1,724,018; Aug. 13.
- Gorsuch, Howard F. (See Hughes, A. S., and Gorsuch.)
- Gorsuch, Robert A., assignor to The Congor Mfg. Company, Gambier, Ohio. Brooder and heating means therefor. 1,734,481; Nov. 5.
- Gorton, Augustine C., Whittenburg, Tex. Cake-baking pan. 1,701,560; Feb. 12.
- Gorton, Thomas S., Jr., New York, N. Y. Fish compound. 1,713,279; May 14.



- Gosch, Harry E., assignor to Creo-Dipt Company, Inc., North Tonawanda, N. Y. Machine for staining shingles. 1,732,935; Oct. 22.
- Gosciewski, Kazimierz, Jackson, Mich. Fire safety device. 1,716,268; June 4.
- Goshen Shirt Manufacturing Company. (See Goldberg, Edmund R., assignor.)
- Goshorn, John F., Kansas City, Mo. Snap for fishing tackle. 1,728,560; Sept. 17.
- Goshorn, Robert R., assignor to The All-Ways-Hot Mfg. Co., Jasonville, Ind. Magnetic liquid heater. 1,712,207; May 7.
- Goshorn, Robert R., assignor to The All-Ways-Hot Mfg. Co., Jasonville, Ind. Radiator. 1,738,100; Dec. 3.
- Goslee, Hart J., Chicago, Ill. Artificial teeth. 1,737,715; Dec. 3.
- Gosline, Daniel P., Boston, Mass. Humidifier. 1,704,317; Mar. 5.
- Gosling, Joseph W., Schenectady, and P. R. Fortin, Baldwin, N. Y., assignors to General Electric Company. Loud-speaker. Des. 78,973; July 16.
- Gosnell Ernest A., assignor to Panhandle Steel Products Company, Wichita Falls, Tex. Tubing and rod machine. 1,732,466; Oct. 22.
- Goss, Arnold H., Detroit, Mich. Mechanical refrigeration. 1,733,793; Oct. 29.
- Goss, Arnold H., Detroit, Mich. Mechanical refrigeration. 1,733,794; Oct. 29.
- Goss, Byron C., Cleveland, Ohio, assignor to General Electric Company. Coating method. 1,698,302; Jan. 8.
- Goss and Deleuw Machine Company, The. (See Goss, Stanley T., assignor.)
- Goss, Harry T., Rutherford, N. J., assignor to Universal Gear Shift Corporation, New York, N. Y. Pneumatically-operated mechanical gear shift. 1,704,245; Mar. 5.
- Goss, Hollis E., Oakland, Calif. Remote-controlled lock. 1,721,730; July 23.
- Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Fuse. 1,716,884; June 11.
- Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Floating trim stud. 1,727,819; Sept. 10.
- Goss, Preston C., Muncie, Ind. Lubricating mixture and making same. 1,708,058; Apr. 9.
- Goss Printing Press Company. (See Brueshaber, Martin W., assignor.)
- Goss Printing Press Company. (See Evensen, William, assignor.)
- Goss Printing Press Company. (See Schroeder, Hans C., assignor.)
- Goss Printing Press Company, The. (See Smith, Ernest J., assignor.)
- Goss, Stanley T., assignor to The Goss and Deleuw Machine Company, New Britain, Conn. Power-chuck-actuating device. 1,729,594; Sept. 24.
- Goss, Zeb S., West Fitchburg, Mass. Nozzle. 1,739,226; Dec. 10.
- Gossel, A. F., et al. (See Larrabee, Gus J., assignor.)
- Gosselin, Albert H. (See Claude, G., and Gosselin.)
- Gosselink, John G. (See Vannah, H. P., and Gosselink.)
- Gosser, Oscar J. (See Ward, F. P., and Gosser.)
- Gossmann, Carl, Glenwood, Ill. Bumper. 1,730,502; Oct. 8.
- Gotchy, Joseph F., assignor of one-third to A. M. Beebe and one-third to H. H. Morton, San Francisco, Calif. Hydraulic transmission. 1,726,822; Sept. 3.
- Gotelli, Anthony, New York, N. Y. Fruit-pitting machine. 1,734,010; Oct. 29.
- Gottfredson, Henry, assignor to Builders' Needs, Incorporated, Milwaukee, Wis. Sink. Des. 79,290; Aug. 27.
- Gottfredson, Henry, assignor to Builders' Needs, Incorporated, Milwaukee, Wis. Sink. Des. 79,291; Aug. 27.
- Gotham Knitbac Machine Corporation. (See Leavin, William H. and S. B., assignors.)
- Gotham Knitbac Machine Corporation. (See Plumley, Raymond L., assignor.)
- Gotham Silk Hosiery Company. (See Day, Ralph A., assignor.)
- Gotham Silk Hosiery Co. (See Ginnane, Katherine, assignor.)
- Gotham Silk Hosiery Company. (See Viehweger, Otto H., assignor.)
- Gott, Edgar N., assignor to Keystone Aircraft Corporation, Bristol, Pa. Aircraft. 1,731,531; Oct. 15.
- Gott, Rodney W., Arlington, Mass. Eraser cleaner. 1,729,253; Sept. 24.
- Gottfried, A. Co., The. (See Griffin, Dewey J., assignor.)
- Gottfried Baking Co. (See Gottfried, Charles, assignor.)
- Gottfried, Charles, New York, N. Y. Throw-off device for Vienna-roll-forming machines. 1,708,758; Apr. 9.
- Gottfried, Charles, assignor to Gottfried Baking Co., Inc., New York, N. Y. Roll-making machine. 1,741,694; Dec. 31.
- Gottfried, Herbert R., Erie, Pa. Organ-pipe voice adjuster. 1,716,630; June 11.
- Gothhardt, Henry R., assignor to Logan Co., Louisville, Ky. Conveyor. 1,740,921; Dec. 24.
- Gottlieb, Alfred T., New York, N. Y. Golf-tee holder. 1,723,276; Aug. 6.
- Gottlieb, Armin H., and G. A. Di Martino, Bronx, N. Y. Street sign. Des. 79,024; July 23.
- Gottlieb Bros. and Lachman, Inc. (See Gottlieb, Jacob, assignor.)
- Gottlieb, firm Max. (See Bergl, Klemens, assignor.)
- Gottlieb, Jacob, assignor to Gottlieb Bros. and Lachman, Inc., New York, N. Y. Infant's bathtub. 1,734,462; Nov. 5.
- Gottlob, Louis E., St. Clair, Mo. Chair. Des. 78,926; July 9.
- Gottschalk, Ernst, Charlottenburg, Germany, assignor to General Electric Company. Bladed-turbine structure. 1,717,203; June 11.
- Gottschalk, Frederick C., New York, N. Y. Stencil duplicator. 1,713,826; May 21.
- Gottschall, Clarence R., and H. H. Pike, Independence, assignors to The Gleaner Combine Harvester Corporation, Kansas City, Mo. Bin delivery control. 1,720,176; July 9.
- Gottschau, Christian M., Philadelphia, Pa., assignor, by mesne assignments, to Picture Machine Service Corporation, Denver, Colo. Unwinding, feeding, and winding mechanism. 1,731,490; Oct. 15.
- Gotwals, C. K. (See Pupp, Max B., assignor.)
- Götz, Richard, Berlin-Gross Lichterfelde, Germany. Needle bearing. 1,717,204; June 11.
- Götz, Stefan, & Sohne Kommandit Gesellschaft. (See Feyertag, Alois, assignor.)
- Goudis, George, Los Angeles, Calif. Wall construction. 1,702,964; Feb. 19.
- Goudy, Carl F. (See Pacent, L. G., and Goudy.)
- Goudy, Carl F., Flushing, assignor to Pacent Radio Corporation, New York, N. Y. Electromagnetic phonographic reproducer. 1,701,000; Feb. 5.
- Goudy, Carl F., Flushing, assignor to Pacent Electric Company, Inc., New York, N. Y. Speaker unit. 1,728,755; Sept. 17.
- Goudy, Carl F., Flushing, assignor to Pacent Electric Company, Inc., New York, N. Y. Electrical connection. 1,734,432; Nov. 5.
- Gough Aircraft Corporation. (See Gough, Frank E., assignor.)
- Gough, Frank E., Oklahoma City, Okla., assignor to Gough Aircraft Corporation. Variable-compression internal-combustion engine. 1,737,082; Nov. 26.
- Gough, Joseph, Newark, N. J., assignor to Gough Stemming Machine Corporation. Leaf stemmer. 1,707,223; Apr. 2.
- Gough Stemming Machine Corporation. (See Gough, Joseph, assignor.)
- Gougler, Clyde J., Tulsa, Okla. Brace. 1,714,361; May 21.
- Gouirand, René, New York, N. Y. Clamp. 1,698,813; Jan. 15.
- Gouirand, Rene, New York, N. Y. Internal-combustion engine. 1,732,011; Oct. 15.
- Gould, Benjamin, Brooklyn, N. Y. Mixing machine. 1,707,550; Apr. 2.
- Gould, Charles T., Walpole, assignor to H. H. Beckwith, Brookline, Mass. Knife block. 1,728,181; Sept. 17.
- Gould Coupler Company, The. (See Richards, Willard F., assignor.)
- Gould Coupler Company. (See Sauvage, William H., assignor.)
- Gould & Eberhardt. (See Jacobson, Hugo W., assignor.)
- Gould & Eberhardt. (See Zimmermann, William F., assignor.)
- Gould & Eberhardt. (See Zimmermann, W. F., and Jacobson, assignors.)
- Gould, Frank D., San Francisco, Calif. Auto top. 1,717,970; June 18.
- Gould, Henry T., Seattle, Wash. Pencil sharpener. 1,717,152; June 11.
- Gould, John H., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Steam-heated fuel intake for internal-combustion engines. 1,736,003; Nov. 19.
- Gould, Louis P., assignor to Miller Rubber Co., Akron, Ohio. Process and apparatus for removing excess material from dipped articles. 1,721,951; July 23.
- Gould, Olin R., et al. (See Wilson, Fred P., assignor.)
- Gould, Richard H., assignor of one-half to A. J. Jones, Centerville, Md. Planter. 1,725,631; Aug. 20.
- Gould, Roy F., assignor to Reserve Holding Company, Chicago, Ill. Traffic-metering system. 1,701,071; Feb. 5.
- Gould, Rufus, assignor of one-half to Postal Telegraph-Cable Company, New York, N. Y. Dry-spot insulator. 1,703,853; Feb. 26.
- Gould Storage Battery Company. (See Klock, Raymond A., assignor.)
- Gould, Wallace O., Brunswick, Me. Clock casing. Des. 79,963; Nov. 26.
- Gouldbourn, Joseph. (See Hipperson, V. E., and Gouldbourn.)
- Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,710,728; Apr. 30.
- Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving mechanism. 1,715,595; June 4.
- Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,738,574; Dec. 10.
- Gouldbourn, Joseph, and A. E. Headley, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,731,622; Oct. 15.
- Gouldbourn, Joseph, and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,710,161; Apr. 23.



- Gouldbourn, Joseph, and W. I. B. Roberts, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for conforming uppers to lasts. 1,710,729; Apr. 30.
- Gouldb. Andrew N., Stockton, Calif. Scaffold horse. 1,739,718; Dec. 17.
- Gould-Merserau Company. (See Beste, Ernest P., assignor.)
- Goulet, Henry F., Walpole, Mass. Display arrangement. 1,733,406; Oct. 29.
- Goundry, William J., Barrasford, Northumberland, England. Egg beater and the like. 1,711,409; Apr. 30.
- Gourie, William J., Philadelphia, Pa. Storage bin. 1,711,053; Apr. 30.
- Gourlay, Martin D., Claremont, N. H. Loom. 1,718,816; June 25.
- Gourley, Glenn T., assignor to General Fireproofing Company, Youngstown, Ohio. Wall-cabinet structure. 1,736,399; Nov. 19.
- Gouverneur, Minor F. H., assignor to Locke Insulator Corporation, Baltimore, Md. Device for cutting holes in insulators. 1,697,422; Jan. 1.
- Gouverneur, Minor F. H., assignor to Locke Insulator Corporation, Baltimore, Md. Method and device for cutting holes in insulators. 1,697,423; Jan. 1.
- Gouverneur, Minor F. H., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator suspension link. 1,712,556; May 14.
- Gouverneur, Minor F. H., assignor to Locke Insulator Corporation, Baltimore, Md. Link liner. 1,712,557; May 14.
- Gouverneur, Minor F. H., and F. J. Stevens, assignors to Locke Insulator Corporation, Baltimore, Md. Casting link-type insulators. 1,733,729; Oct. 29.
- Gove, Helen N., Williamsport, Pa. Figurette. 1,702,539; Feb. 19.
- Government and the People of the United States. (See Walton, G. P., and Gardiner, assignors.)
- Government and the People of the United States, The. (See Johnson, Elmer, assignor.)
- Government and the People of the United States of America. (See Barger, William R., assignor.)
- Government and the People of the United States of America. (See Bennett, Charles A., assignor.)
- Government and the People of the United States of America, The. (See Herrick, H. T., and May, assignors.)
- Government and the People of the United States of America, The. (See Rogers, Lore A., assignor.)
- Government of the United States of America. (See Browne, Ralph C., assignor.)
- Government of the United States of America, represented by the Secretary of the Navy. (See Shively, Walter L., assignor.)
- Gow, John M., Muskegon, Mich. Meter lubricator. 1,737,457; Nov. 26.
- Gow, Robert L., Hibbing, Minn. Snare. 1,716,631; June 11.
- Gowans, Thomas C., Brooklyn, N. Y. Rider and drum for lithographic presses. 1,718,415; June 25.
- Gowdey, John, Philadelphia, Pa. Book end or similar article of manufacture. Des. 78,202; Apr. 9.
- Gowell, Ernest E., South Portland, assignor to The E. T. Burrows Company, Portland, Me. Folding table. 1,697,594; Jan. 1.
- Gowell, William F., Augusta, Me. Filler and polishing composition. 1,717,023; June 11.
- Goyne, Charles H., assignor to Goyne Steam Pump Co., Ashland, Pa. Priming system for centrifugal pumps. Re17,371; July 9.
- Goyne Steam Pump Co. (See Goyne, Charles H., assignor.)
- Graaf, Clemens. (See Brase, Wilhelm, assignor.)
- Grab, Gustav A., assignor to Willamette Iron and Steel Works, Portland, Oreg. Traversing hoist. 1,734,330; Nov. 5.
- Graber, Jonathan P., Bloomfield, Mont. Machine drive. 1,741,695; Dec. 31.
- Grabich, Nicola, West New York, N. J. Life-saving device for ships and the like. 1,730,134; Oct. 1.
- Grabill, John D., Woodstock, Va. Grading machine. 1,715,197; May 28.
- Grabler Manufacturing Company, The. (See McCabe, Frank B., assignor.)
- Grabler Manufacturing Company, The. (See Rosenfeld, M. C., and McCabe, assignors.)
- Grabler, Peter, Rocky River, Ohio. Stamping device. 1,730,365; Oct. 8.
- Grace, Bertram B. (See Nash, G. H., and Grace.)
- Grace, John F., Arlington, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Surface condenser. 1,704,471; Mar. 5.
- Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Surface condenser. 1,717,770; June 18.
- Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,717,771; June 18.
- Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Surface condenser water-circulation system. 1,733,992; Oct. 29.
- Grace, John F., Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,733,993; Oct. 29.
- Grace, Michael J., Charleston, S. C., assignor, by mesne assignments, to The Gamewell Company, Newton Upper Falls, Mass. Key and lever guard for fire-alarm boxes. 1,738,531; Dec. 10.
- Grace, William V., Columbus, Miss. Equalizer for stave jointers. 1,716,520; June 11.
- Gracey, Frank P., Augusta, Ga. Slicing device. 1,732,045; Oct. 15.
- Grady, John O., Birmingham, Ala. Container cover. 1,738,893; Dec. 10.
- Graebe, Herman C., Atlanta, Ga., assignor to The Procter and Gamble Company, Cincinnati, Ohio. Humidifying cotton seed meats. 1,707,949; Apr. 2.
- Graeber, Rudolph, assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Manufacture of stockings. 1,712,344; May 7.
- Graebner, Otto F., assignor to The Willys-Overland Company, Toledo, Ohio. Window regulator. 1,710,090; Apr. 23.
- Graesser Monsanto Chemical Works, Limited. (See Maxwell-Lefroy, Harold, assignor.)
- Graetzer, Otto, Zurich-Zollikon, Switzerland. Flatiron. 1,728,269; Sept. 17.
- Graf, Albert J., Westfield, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism for printing machines. 1,741,414; Dec. 31.
- Graf, Albert J., Westfield, and W. K. Eckhard, Dunellen, N. J., assignors to R. Hoe & Co. Inc., New York, N. Y. Cylinder adjustment for off-set printing machines. 1,739,963; Dec. 17.
- Graf, Alfons, New York, N. Y. Pan cleaning and greasing machine. 1,738,240; Dec. 3.
- Graf, Alma J., Collier, W. Va. Power dough mixer. 1,715,232; May 28.
- Graf, Anthony, Syracuse, N. Y. Piston-holding device. 1,721,111; July 16.
- Graf, Carl, Mannheim, Germany, assignor of one-half to K. Reichl, Philadelphia, Pa. Electric heating device. 1,706,385; Mar. 19.
- Graf, Edward F., assignor to Proudfit Loose-Leaf Co., Grand Rapids, Mich. Inking punch. 1,738,891; Dec. 10.
- Graf, Edward F., and G. L. Vander Veen, assignors to The Proudfit Loose Leaf Company, Grand Rapids, Mich. Loose-leaf binder. 1,715,653; June 4.
- Graf, Fred, South Bend, Ind., assignor to American Foundry Equipment Company, New York, N. Y. Sand-cutting machine. 1,715,355; June 4.
- Graf, Fred, South Bend, Ind., assignor to V. E. Minich, Scarsdale, N. Y. Power-transmission device. 1,715,596; June 4.
- Graf, William A. (See Verdegem, M., and Graf.)
- Grafani, Leon B., and R. E. Peterson, Los Angeles, Calif., assignors, by mesne assignments, to American Automatic Sanitation Company, Wilmington, Del. Sterilizer for toilet seats and the like. 1,741,622; Dec. 31.
- Graff, Edward, assignor to The New River Company, MacDonald, W. Va. Conveyor flight. 1,699,187; Jan. 15.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Handle for window regulators or the like. Des. 77,545; Jan. 22.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Handle for window regulators or the like. Des. 77,761; Feb. 19.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Rim for dome lights or the like. Des. 77,762; Feb. 19.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Rim for dome lights or the like. Des. 77,763; Feb. 19.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Robe rail. Des. 77,827; Feb. 26.
- Graff, George, assignor to The Dura Company, Toledo, Ohio. Robe rail. Des. 77,897; Mar. 5.
- Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Handle for window regulators or the like. Des. 78,463; May 7.
- Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Handle for window regulators or the like. Des. 78,464; May 7.
- Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Rim for dome lights or the like. Des. 79,652; Oct. 22.
- Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Motor-vehicle robe-rail fixture. Des. 79,882; Nov. 12.
- Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Lamp. 1,721,903; July 23.
- Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Forming hardware. 1,736,495; Nov. 19.
- Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Forming hardware. 1,736,496; Nov. 19.
- Graff, William H., Philadelphia, Pa. Loud-speaker. 1,711,939; May 7.
- Graffenberger, Friedrich, Milwaukee, Wis. Box. 1,731,007; Oct. 8.
- Grafteo, Accursio, New York, N. Y. Pleasure boat. 1,728,056; Sept. 10.
- Grafflin, Lewis, assignor to The Two-Season Process, Inc., Norfolk, Va. Heating and cooling apparatus. 1,704,535; Mar. 5.
- Grafström, John S., Ulricehamn, Sweden. Road guide and map-drawing apparatus. 1,718,689; June 25.



- Grafton, Eugene H. (See Gnehm, Walter, assignor.)
- Grafton, Howard T., Bristolville, assignor of one-third to W. R. Grimsley and one-third to J. S. Irvin, Warren, Ohio. Production of ductile iron and steel sheets. 1,723,152; Aug. 6.
- Graham, Alfred, et al., executors. (See Graham, Edward A.)
- Graham, Alfred, executor. (See Paddle, E. A. and A.)
- Graham Amplion Limited. (See Graham, E. A., and Paddle, assignors.)
- Graham Brothers, Inc. (See Thoms, L., and Neely, assignors.)
- Graham, Christopher. (See Ellis, Arthur H., assignor.)
- Graham, Clarence C., San Francisco, Calif. Combined cigarette holder and dispenser. Des. 78,810; June 25.
- Graham, Dan A., et al. (See Erb, Lanious P., assignor.)
- Graham, David F., Detroit, Mich. Demountable wheel rim. 1,727,309; Sept. 3.
- Graham, Earl S., jr. (See Graham, Earl S. and E. S., jr.)
- Graham, Earl S. and E. S., jr., Dallas, Tex. Refrigerating container. 1,711,840; May 7.
- Graham, Edinburgh, Aiken, S. C. Lock. 1,698,790; Jan. 15.
- Graham, Edward A., deceased, Brockley, England; M. Graham and A. Graham, executors. Nonsonorous detachable bush connection for sound conduits. 1,699,586; Jan. 22.
- Graham, Edward A., deceased, Crofton Park, Brockley; M. Graham, Beckenham, executrix, and A. Graham, executor, Forest Hill, and L. H. Paddle, Crofton Park, Brockley, England, assignors to Graham Amplion Limited, London, England. Telephone transmitter. 1,711,410; Apr. 30.
- Graham, Ella H., et al. (See Anderson, John W., assignor.)
- Graham, Frank H., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,724,924; Aug. 20.
- Graham, Frank M., Ottumwa, Iowa. Ice-cream-storage cabinet. 1,697,313; Jan. 1.
- Graham, Frank M., Ottumwa, Iowa. Bottle cooler and dispenser. 1,741,563; Dec. 31.
- Graham Glass Company, The. (See Miller, Frank R., assignor.)
- Graham, Guy G., Kansas City, Mo. Canine nasal irrigator. 1,734,426; Nov. 5.
- Graham, Homer L., La Habra, assignor of one-half to W. H. Taylor and V. W. Bailey, Pasadena, Calif. Drill-drive-stem bushing. 1,738,101; Dec. 3.
- Graham, Howard, Birmingham, Ala. Adjustable-jaw wrench. 1,708,722; Apr. 9.
- Graham, James A. (See Anderson, John W., assignor.)
- Graham, James A., et al. (See Anderson, John W., assignor.)
- Graham, James H., Torrington, Conn. Pedal for bicycles and the like. 1,703,444; Feb. 26.
- Graham, Joseph A., Houston, Tex., assignor of one-third to J. Papadakis and one-third to W. J. Buford, Harris County, Tex. Railway-rail joint. 1,707,355; Apr. 2.
- Graham, Leslie B., East Chicago, Ind. Spring motor. 1,718,289; June 25.
- Graham, Maria, executrix. (See Graham, E. A., and Paddle.)
- Graham, Maria, et al., executors. (See Graham, Edward A.)
- Graham, Matthew P. (See Crawford, F. C., and Graham.)
- Graham, Matthew P. (See Hufford, G. H., and Graham.)
- Graham, Matthew P., Detroit, Mich., assignor to Thompson Products Inc., Cleveland, Ohio. Hardened ball seat and making same. 1,718,229; June 25.
- Graham, Melville M., Los Angeles, Calif. Safety lock for pins and the like. 1,700,357; Jan. 29.
- Graham Metal Manufacturing Company. (See Graham, Ralph A., assignor.)
- Graham & Norton Company. (See Norton, Clifford, assignor.)
- Graham & Norton Company. (See Norton, C., and Gustafson, assignors.)
- Graham, Palmer L., Terre Haute, Ind. Separable fastener. 1,701,461; Feb. 5.
- Graham, Paul C., assignor of one-half to J. A. Butler, Long Beach, Calif. Material batcher. 1,709,211; Apr. 16.
- Graham, Ralph A., assignor to Graham Metal Manufacturing Company, Kansas City, Mo. Bottle cap. 1,734,372; Nov. 5.
- Graham, Robert S., Paducah, Ky. Attachment for telephone mouthpieces. 1,706,778; Mar. 26.
- Graham, Samuel J., New York, N. Y., assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Cup dispenser. 1,701,035; Feb. 5.
- Graham, Tom C., assignor to The Embossing Company, Albany, N. Y. Cut-out puzzle or game. 1,714,127; May 21.
- Graham, Tom C., assignor to The Embossing Company, Albany, N. Y. Play outfit for children. 1,725,911; Aug. 27.
- Graham, Virgil M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Signaling system. 1,721,991; July 23.
- Graham, Virgil M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radio signaling system. 1,721,992; July 23.
- Graham, Walter D., River Forest, Ill. Electrically-heated fabric and the like. 1,741,054; Dec. 24.
- Graham, Walter D., and P. C. Palfyn, Chicago, Ill. Electrically-heated belt and the like. 1,736,590; Nov. 19.
- Graham, William A., Brooklyn, N. Y., assignor to Radio Corporation of America. Electrical condenser. 1,721,152; July 16.
- Graham, William P., New York, N. Y. Dish or similar article. Des. 78,746; June 18.
- Graham, William S., Canton, Ill., assignor to International Harvester Company. Tractor cultivator attachment. 1,705,288; Mar. 12.
- Graham, William S., Canton, Ill., assignor to International Harvester Company. Implement hitch. 1,721,694; July 23.
- Graham, William S., Canton, Ill., assignor to International Harvester Company. Furrow-wheel adjustment for plows. 1,737,879; Dec. 3.
- Graham, William S., Canton, Ill., assignor to International Harvester Company. Gang plow. 1,737,880; Dec. 3.
- Graham, Wilson T. (See Reynolds, William E., assignor.)
- Grahm, William, administrator. (See Rothe, Charles C.)
- Gram Machinery Company, The. (See Haines, George H., assignor.)
- Gram, Clarence N., Minneapolis, assignor to The Valentine-Clark Co., St. Paul, Minn. Apparatus for perforating wood preparatory to receiving preservative material. 1,701,324; Feb. 5.
- Gramarben Company, The. (See Holden, Benedict M., assignor.)
- Gramlich, Adolph, New York, N. Y. Doll or similar article. Des. 80,030; Dec. 3.
- Grammer, Allen L., Glenside, Pa. Printing. 1,711,596; May 7.
- Grammer, Seward S. (See Turner, E. C., and Grammer.)
- Grammes, L. F., & Sons, Inc. (See Price, Charles S., assignor.)
- Grammes, L. F., & Sons, Inc. (See Romig, Morris W., assignor.)
- Grammes, L. P., & Sons, Inc. (See Weindel, Fred, jr., assignor.)
- Granat, Elie, assignor of one-half to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Disconnecting and reconnecting device for distant-control arrangements. 1,697,976; Jan. 8.
- Granat, Elie, assignor of one-half to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Differential electric distant control device comprising static transmitters. 1,701,671; Feb. 12.
- Granberg, Carl, Firth, Idaho. Sack holder. 1,699,188; Jan. 15.
- Granberg, Emil, St. Louis, Mo. Combined radiocabinet and clock. Des. 79,802; Nov. 5.
- Granberg Meter Corporation. (See Brubaker, Walter S., assignor.)
- Grandjean, Georges, Les Forgets, Isle Adam, France, assignor to Isothermos Corporation of America, New York, N. Y. Automatic lubricating journal box. 1,736,705; Nov. 19.
- Grandjean, Georges, Les Forgets, Isle Adam, France, assignor to Isothermos Corporation of America, New York, N. Y. Journal box. 1,741,931; Dec. 31.
- Grandjean, René, Courbevoie, France, assignor, by mesne assignments, to Rainbow Light, Inc., New York, N. Y. Luminous tube. 1,703,524; Feb. 26.
- Grandjean, René, Courbevoie, France, assignor, by mesne assignments, to Rainbow Light, Inc., New York, N. Y. Yielding holder for luminous tubes. 1,704,472; Mar. 5.
- Grand Rapids Brass Company. (See Ekman, Andrew, assignor.)
- Grand Rapids Brass Company. (See Kosten, Johannes, assignor.)
- Grand Rapids Brass Company. (See Osbeck, Elmer C., assignor.)
- Grand Rapids Brass Company. (See Roedding, Gordon E., assignor.)
- Grand Rapids Brass Company. (See Roedding, G. E., and Osbeck, assignors.)
- Grand Rapids Hardware Company. (See Seelbach, John F., assignor.)
- Grand Rapids Metalcraft Corporation. (See De Boer, Rudolph, assignor.)
- Grand Rapids Store Equipment Corporation. (See Morris, Edmund, assignor.)
- Grand Rapids Store Equipment Corporation. (See Morris, E., and Vanderveld, assignors.)
- Granger, Heman H., Davenport, assignor of one-half to H. D. Trunkay, trustee, Spokane, Wash. Hygiene heating and cooling system. 1,709,396; Apr. 16.
- Granger, Joseph E., Alhambra, Calif. Stabilizing reactance. 1,713,697; May 21.
- Granger, Patrick, Las Cruces, N. Mex. Vibrator structure. 1,698,330; Jan. 8.
- Granger, Paul H., Los Angeles, Calif. Leak indicator and cementing plug. 1,718,416; June 25.
- Granger, Paul H., Los Angeles, Calif. Method and apparatus for locating leaks in well piping. 1,736,117; Nov. 19.
- Granstedt, Johan A., Själevad, assignor to G. P. O. Fogelqvist, Sundsvall, Sweden. Wheel for motor vehicles. 1,711,887; May 7.
- Grant, Albert E., New York, N. Y. Gear pump. 1,704,704; Mar. 12.



- Grant, Albert E., New York, N. Y., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Automatically lubricating shaft bearings. 1,726,663; Sept. 3.
- Grant, Albert E., New York, N. Y., assignor, by mesne assignments, to Grant Inventions Company, Inc., Wilmington, Del. Liquid-fuel apparatus. 1,699,467; Jan. 15.
- Grant, Asa T., assignor of one-half to A. L. Stevens, Bangor, Me. Hand hook. 1,710,575; Apr. 23.
- Grant, Caroline L. W., East Malvern, Victoria, Australia. Garden trowel. 1,713,529; May 21.
- Grant, Charles E., Seattle, Wash. Wicket window. 1,697,685; Jan. 1.
- Grant, David H., Seattle, Wash. Corn cutter and loader. 1,708,295; Apr. 9.
- Grant, Dorothy I. (See Grant, Robert, assignor.)
- Grant, Garnet P., New York, N. Y. Vending machine. 1,699,353; Jan. 15.
- Grant, George E. (See Nichols, R. B., and Grant.)
- Grant Inventions Company. (See Grant, Albert E., assignor.)
- Grant, James, Gourrock, Scotland. Screen for use with windows of the sliding-sash type. 1,712,664; May 14.
- Grant, John. (See Brown, Harry E., assignor.)
- Grant, John. (See Campbell, Lawrence S., assignor.)
- Grant, John. (See Campbell, S. L., and Santiago, assignors.)
- Grant, John. (See Campbell, Stewart L., assignor.)
- Grant John. (See Edwards, Albert B., assignor.)
- Grant, John, Los Angeles, assignor, by mesne assignments, to Byron Jackson Pump Co., West Berkeley, Calif. Well elevator. 1,716,885; June 11.
- Grant, John, Los Angeles, assignor, by mesne assignments, to Byron Jackson Pump Co., West Berkeley, Calif. Deep-well elevator. 1,716,886; June 11.
- Grant, John, Los Angeles, Calif., assignor, by mesne assignments, to Byron Jackson Pump Co., West Berkeley, Calif. Well elevator. 1,728,930; Sept. 24.
- Grant, Lewis C. (See Gregory, R. W., and Grant.)
- Grant, Lewis C., Heaton, Newcastle-upon-Tyne, assignor to Electrical Improvements Limited, Milburn House, Newcastle-upon-Tyne, England. Wired-wireless system. 1,697,462; Jan. 1.
- Grant, Patrick M., Chicago, Ill. Fluid-pressure-operated valve. 1,710,054; Apr. 23.
- Grant, Patrick M., Chicago, Ill. Fluid-pressure-operated valve. 1,710,055; Apr. 23.
- Grant, Paul. (See Yates, George, assignor.)
- Grant, Richard F. (See Wetherbee, H. E., and Grant.)
- Grant, Robert, Hollywood, assignor of one-fifty-eighth to D. I. Grant, Los Angeles, Calif. Valve. 1,716,377; June 11.
- Grant, T. P., Company. (See Nygood, Samuel C.)
- Grant, Theodore P. (See Nygood, Samuel C., assignor.)
- Grant, William E. and M. B. Bean, Sydney, New South Wales, Australia. Socket for electric-light globes. 1,700,538; Jan. 29.
- Grant, William H., assignor to Frank Holton & Co., Elkhorn, Wis. Key-valve pad for musical instruments. 1,737,966; Dec. 3.
- Grant, Willis C., assignor of one-half to S. W. Brown, Ashabula, Ohio. Transparent holder for roentgenographs. 1,730,883; Oct. 8.
- Grantier, Leslie V., Royal Oak, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Engine-cooling system. 1,701,615; Feb. 12.
- Granville, Bernard, New York, N. Y., assignor to Granville Holding Corporation. Flexible shaft. 1,739,756; Dec. 17.
- Granville Holding Corporation. (See Granville, Bernard, assignor.)
- Grapp, Floyd O., Minneapolis, Minn. Waste chute. 1,719,545; July 2.
- Graseby, Robert C., Westminster, London, England. Electric motor. 1,733,872; Oct. 29.
- Grass, Otto R., assignor to Oro-Tone Company, Chicago, Ill. Disk for sound boxes. 1,696,949; Jan. 1.
- Grassmann, Edward C., Maplewood, N. J., assignor to Harry C. Schick, Inc. Safety clasp. 1,732,267; Oct. 22.
- Grasselli Chemical Company. (See Boertlein, John C., assignor.)
- Grasselli Chemical Company, The. (See Booge, J. E., and Hanahan, assignors.)
- Grasselli Chemical Company, The. (See Buse, Otto, assignor.)
- Grasselli Chemical Company, The. (See Buse, O. H., and Reid, assignors.)
- Grasselli Chemical Company, The. (See Delavie, F. J., and Blouch, assignors.)
- Grasselli Chemical Company, The. (See Howald, Arthur M., assignor.)
- Grasselli Chemical Company, The. (See Howard, Henry, assignor.)
- Grasselli Chemical Company, The. (See Taylor, Edward A., assignor.)
- Grasselli Chemical Company, The. (See Westbrook, Leon R., assignor.)
- Grasselli Chemical Company, The. (See Williams, Ira, assignor.)
- Grasselli Chemical Company, The. (See Wood, Charles D., assignor.)
- Grasselli Dyestuff Corporation. (See Bauer, W., Herre, and Funke, assignors.)
- Grasselli Dyestuff Corporation. (See Berliner, R., Stein, and Trautner, assignors.)
- Grasselli Dyestuff Corporation. (See Braunsdorf, O., Holzappel, and Nawiasky, assignors.)
- Grasselli Dyestuff Corporation. (See Clingenstein, Heinrich, assignor.)
- Grasselli Dyestuff Corporation. (See Clingenstein, H., and Grimm, assignors.)
- Grasselli Dyestuff Corporation. (See Daimler, K., Balle, and Just, assignors.)
- Grasselli Dyestuff Corporation. (See Duisberg, W., Hentrich, and Zeh, assignors.)
- Grasselli Dyestuff Corporation. (See Eckert, Wilhelm, assignor.)
- Grasselli Dyestuff Corporation. (See Eifflaender, Ludwig, assignor.)
- Grasselli Dyestuff Corporation. (See Fellmer, Ernst, assignor.)
- Grasselli Dyestuff Corporation. (See Fischer, Erich, assignor.)
- Grasselli Dyestuff Corporation. (See Fischer, E., and Müller, assignors.)
- Grasselli Dyestuff Corporation. (See Greune, Heinrich, assignor.)
- Grasselli Dyestuff Corporation. (See Guenther, A., Thaus, and Mauthe, assignors.)
- Grasselli Dyestuff Corporation. (See Haller, Josef, assignor.)
- Grasselli Dyestuff Corporation. (See Hentrich, W., Knoche, and Hardtmann, assignors.)
- Grasselli Dyestuff Corporation. (See Herz, Richard, assignor.)
- Grasselli Dyestuff Corporation. (See Herz, R., Schulte, and Zerweck, assignors.)
- Grasselli Dyestuff Corporation. (See Herzberg, W., and Ohlendorf, assignors.)
- Grasselli Dyestuff Corporation. (See Hoffa, E., and Heyna, assignors.)
- Grasselli Dyestuff Corporation. (See Hoffa, E., and Jörg, assignors.)
- Grasselli Dyestuff Corporation. (See Hoffa, E., and Müller, assignors.)
- Grasselli Dyestuff Corporation. (See Hoffa, E., Heyna, Thoma, and Hirschel, assignors.)
- Grasselli Dyestuff Corporation. (See Hoffa, E., Thoma, and Heyna, assignors.)
- Grasselli Dyestuff Corporation. (See Kalischer, G., and Keller, assignors.)
- Grasselli Dyestuff Corporation. (See Kalischer, G., and Zerweck, assignors.)
- Grasselli Dyestuff Corporation. (See Kalischer, G., Scheyer, and Keller, assignors.)
- Grasselli Dyestuff Corporation. (See Keller, F., and Schnitzpahn, assignors.)
- Grasselli Dyestuff Corporation. (See Kränzlein, G., and Corell, assignors.)
- Grasselli Dyestuff Corporation. (See Kränzlein, G., Vollmann, Greune, and Wolfram, assignors.)
- Grasselli Dyestuff Corporation. (See Krauss, Carl, assignor.)
- Grasselli Dyestuff Corporation. (See Krech, R., and Keiner, assignors.)
- Grasselli Dyestuff Corporation. (See Kunz, M. A., and Köberle, assignors.)
- Grasselli Dyestuff Corporation. (See Laska, L., and Weber, assignors.)
- Grasselli Dyestuff Corporation. (See Laska, L., Krecek, and Weber, assignors.)
- Grasselli Dyestuff Corporation. (See Lüttringhaus, A., Neresheimer, and Emmer, assignors.)
- Grasselli Dyestuff Corporation. (See Lüttringhaus, A., Neresheimer, and Wolff, assignors.)
- Grasselli Dyestuff Corporation. (See Mayer, Fritz, assignor.)
- Grasselli Dyestuff Corporation. (See Mieg, Walter, assignor.)
- Grasselli Dyestuff Corporation. (See Mieg, W., and Job, assignors.)
- Grasselli Dyestuff Corporation. (See Müller, J., and Schubert, assignors.)
- Grasselli Dyestuff Corporation. (See Müller, W., and Appenzeller, assignors.)
- Grasselli Dyestuff Corporation. (See Neresheimer, Heinrich, assignor.)
- Grasselli Dyestuff Corporation. (See Pfeffer, Ernst, assignor.)
- Grasselli Dyestuff Corporation. (See Reddelien, G., and Müller, assignors.)
- Grasselli Dyestuff Corporation. (See Risse, F., and Fischer, assignors.)
- Grasselli Dyestuff Corporation. (See Scheyer, Heinz, assignor.)
- Grasselli Dyestuff Corporation. (See Schirmacher, K., and Renn, assignors.)
- Grasselli Dyestuff Corporation. (See Schmidlin, Robert, assignor.)
- Grasselli Dyestuff Corporation. (See Schmidt, M. P., and Herrmann, assignors.)
- Grasselli Dyestuff Corporation. (See Schmidt, M. P., and Limpach, assignors.)
- Grasselli Dyestuff Corporation. (See Schmidt, M. P., and Neugebauer, assignors.)
- Grasselli Dyestuff Corporation. (See Schmidt, Robert E., assignor.)



- Grasselli Dyestuff Corporation. (See Schmidt, R. E., and Berliner, assignors.)
- Grasselli Dyestuff Corporation. (See Schmidt, R. E., and Trautner, assignors.)
- Grasselli Dyestuff Corporation. (See Schumacher, W., and Sieg, assignors.)
- Grasselli Dyestuff Corporation. (See Schumann, C., Münch, Schlichting, and Christ, assignors.)
- Grasselli Dyestuff Corporation. (See Schöner, B., and Virck, assignors.)
- Grasselli Dyestuff Corporation. (See Spengler, O., and Weidenhagen, assignors.)
- Grasselli Dyestuff Corporation. (See Steiger, N., Hoffa, and Heyna, assignors.)
- Grasselli Dyestuff Corporation. (See Stein, B., Trautner, and Berliner, assignors.)
- Grasselli Dyestuff Corporation. (See Thaus, A., and Guenther, assignors.)
- Grasselli Dyestuff Corporation. (See Thless, K., Müller, Schirmacher, and Zahn, assignors.)
- Grasselli Dyestuff Corporation. (See Trautner, W. Berliner, and Stein, assignors.)
- Grasselli Dyestuff Corporation. (See Wagner, Hermann, assignor.)
- Grasselli Dyestuff Corporation. (See Wagner, H., and Sohst, assignors.)
- Grasselli Dyestuff Corporation. (See Wagner, H., and Vossen, assignors.)
- Grasselli Dyestuff Corporation. (See Weiler, Max, assignor.)
- Grasselli Dyestuff Corporation. (See Weinand, Klaus, assignor.)
- Grasselli Dyestuff Corporation. (See Wilke, Karl, assignor.)
- Grasselli Dyestuff Corporation. (See Wolff, Hugo, assignor.)
- Grasselli Dyestuff Corporation. (See Zahn, K., and Ochwat, assignors.)
- Grasselli Dyestuff Corporation. (See Zerweck, Werner, assignor.)
- Grasselli Dyestuff Corporation. (See Zitcher, Arthur, assignor.)
- Grasset, Paul, Versailles, France. Maritime ram with barometric chamber. 1,742,068; Dec. 31.
- Grassi, Angel A., and R. de O. Cézar, Buenos Aires, Argentina. Automatic controlling device for electric water heaters. 1,697,463; Jan. 1.
- Grassman, Edward C., Maplewood, N. J., assignor to Harry C. Shick, Inc. Clasp for necklaces, chains, lavatories, etc. 1,706,448; Mar. 26.
- Grathwol, William L., Stratford, Conn. Vacuum cleaner for automobiles. 1,738,065; Dec. 3.
- Grathwol, William L., Stratford, Conn. Vacuum cleaner for automobiles. 1,738,066; Dec. 3.
- Graton & Knight Company. (See Chandler, Robert W., assignor.)
- Graton & Knight Company. (See Griffith, Winfred S., assignor.)
- Grau, Georg E., Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Starting the motors of multimotor drives. 1,721,079; July 16.
- Grau, Herbert E., and A. J. Colmerauer, Redondo Beach, Calif. Tubing catcher. 1,706,779; Mar. 26.
- Grau, Herman E. (See Brasack, W. L., and Grau.)
- Grau, Vincent, Paris, France. Construction of banjos and analogous apparatus. 1,720,270; July 9.
- Grau, William S., Inglewood, and J. O. Bishop, Torrance, Calif., assignors to The National Supply Company of Delaware, New York, N. Y. Soft core for hard materials and applying same. 1,710,356; Apr. 23.
- Grauel, Edwin L., assignor to The Graulock Company, Cincinnati, Ohio. Eccentric bushing. 1,704,939; Mar. 12.
- Graul, Hermann M., Detroit, Mich. Combination muffler and heater. 1,700,841; Feb. 5.
- Graulock Company, The. (See Grauel, Edwin L., assignor.)
- Graupner, Paul L., assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co., Dresden, Germany. Driving means for cigarette conveyers in cigarette-rod machines. 1,723,613; Aug. 6.
- Gravel, David. (See Caldwell, J. J., and Gravel.)
- Gravel, David, Chattanooga, Tenn., assignor to Barber-Colman Company, Rockford, Ill. Knot-tying mechanism. 1,719,883; July 9.
- Gravel, David, assignor to Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Singeing warping machine. 1,722,910; July 30.
- Gravel, Onell, Trois Rivières, Quebec, Canada. Latch. 1,724,759; Aug. 13.
- Gravel Products Corporation. (See Gerken, Howard S., assignor.)
- Gravell, James H., Elkins Park, Pa. Nonresounding metal vat. 1,697,643; Jan. 1.
- Gravell, James H., Elkins Park, Pa. Material and process for removing paint and varnish. 1,700,491; Jan. 29.
- Gravell, James H., Elkins Park, assignor to American Chemical Paint Company, Ambler, Pa. Metal cleaning. 1,713,653; May 21.
- Gravell, James H., Elkins Park, assignor to American Chemical Paint Company, Ambler, Pa. Metal pickling. 1,721,389; July 16.
- Gravell, James H., Elkins Park, assignor to American Chemical Paint Company, Ambler, Pa. Method and means for selectively controlling metal-pickling baths. 1,736,118; Nov. 19.
- Gravell, James H., Elkins Park, Pa. Preparing metal for painting. 1,740,731; Dec. 24.
- Gravelle, Albert L. (See Gravelle, Arthur A. and A. L.)
- Gravelle, Arthur A., Robbinsdale, and A. L. Gravelle, Minneapolis, Minn. Stove. 1,726,293; Aug. 27.
- Gravenhorst, Charles F. (See Horton, A. J., and Gravenhorst.)
- Graver, Edwin H., assignor to B. B. Gellner, trustee, Cleveland, Ohio. Incinerator door. 1,704,969; Mar. 12.
- Graver, Edwin H., East Cleveland, assignor to B. B. Gellner, trustee, Cleveland, Ohio. Incinerator. 1,724,574; Aug. 13.
- Graver, Edwin H., assignor to B. B. Gellner, trustee, Cleveland, Ohio. Incinerator. 1,724,575; Aug. 13.
- Graves, Arnold, Wheatthampstead, assignor to The Safety Anti-Dazzle Bulb Syndicate Limited, London, England. Vehicle lamp. 1,716,048; June 4.
- Graves, Benjamin P., Cranston, assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Coolant supply for milling machines. 1,738,646; Dec. 10.
- Graves, Benjamin P., Cranston, assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Machine clamp. 1,738,647; Dec. 10.
- Graves, Eugene C., Chicago, Ill. Weed-burning apparatus. 1,711,527; May 7.
- Graves, Frank, St. Paul, and M. S. Martin, Minneapolis, Minn.; said Graves assignor to said Martin. Automatic coal-feed-distributing device. 1,708,879; Apr. 9.
- Graves, Frank, Sash, Door and Mill Company. (See Appleby, James P., assignor.)
- Graves, Harry S., Highland Park, Mich. Piston ring. 1,736,530; Nov. 19.
- Graves, Henry D. (See Rees, Millard J., assignor.)
- Graves, Henry W., Chicago, Ill. Structural toy. 1,718,230; June 25.
- Graves, Herschel W., Lost Hills, Calif. Long-stroke pumping mechanism. 1,698,130; Jan. 8.
- Graves, Homer et al. (See Churchill, Adoniram J., assignor.)
- Graves, John H., Colorado Springs, Colo., and G. C. McRedmond, Los Angeles, Calif. Oil-can liquid measure. 1,733,079; Oct. 22.
- Graves, Paul D., Lumberton, assignor of one-half to N. Johns, Hamlet, N. C. Inflation head. 1,717,842; June 18.
- Graves Process, Inc., The. (See Graves, Roy V., assignor.)
- Graves, Roy V., assignor to The Graves Process, Inc., Minneapolis, Minn. Producing printing plates. 1,733,343; Oct. 29.
- Gray, Alanson McD., administrator. (See Gray, Philander R.)
- Gray, Bartlett S., trustee. (See Anderson, John A., assignor.)
- Gray, C. H., et al. (See D'Olier, William L., assignor.)
- Gray, Carl C., Minneapolis, Minn. Grain retarder. 1,728,238; Sept. 17.
- Gray, Carl W., Lankershim, M. J. Burdick, Alhambra, M. S. Moore, Los Angeles, and C. W. Sandifur, Lankershim, Calif. Laboratory chemistry table. Des. 78,285; Apr. 16.
- Gray, Charles H., Minneapolis, Minn. Rope clamp. 1,709,910; Apr. 23.
- Gray, Charles P., assignor to Gray Wirelet Corporation, West Chester, Pa. Device for making spiral-wire fasteners. 1,733,961; Oct. 29.
- Gray, Chester E. (See Turnbow, Grover D., assignor.)
- Gray, Chester E., Oakland, Calif. Testing butter and apparatus for practicing same. 1,708,307; Apr. 9.
- Gray, Christian H., London, England. Method of and apparatus for covering cylindrical rollers with rubber. 1,736,911; Nov. 26.
- Gray Company. (See de Forest, Edgar A., assignor.)
- Gray Company. (See Gray, Russell J., assignor.)
- Gray, Cornelius, Walnut Park, Calif. Vending machine. 1,703,996; Mar. 5.
- Gray, Daniel, R. O. Bailey, Oneida, and W. S. Murray, Utica, assignors to Oneida Community, Limited, Oneida, N. Y. Tarnish-resisting silver and silver plate and producing the same. 1,719,365; July 2.
- Gray, Daniel, R. O. Bailey, Oneida, and W. S. Murray, Utica, assignors to Oneida Community, Limited, Oneida, N. Y. Producing tarnish-resisting silver and silver-plate. 1,720,215; July 9.
- Gray, Daniel, R. O. Bailey, Oneida, and W. S. Murray, Utica, assignors to Oneida Community, Limited, Oneida, N. Y. Tarnish-resisting silver plate and producing same. 1,720,216; July 9.
- Gray, Daniel, R. O. Bailey, Oneida, and W. S. Murray, Utica, assignors to Oneida Community, Limited, Oneida, N. Y. Tarnish-resisting silver alloy, etc., and producing the same. 1,720,894; July 16.
- Gray, Daniel, and R. O. Bailey, Oneida, and W. S. Murray, Utica, assignors to Oneida Community, Limited, Oneida, N. Y. Aluminum plated article and producing the same. 1,723,277; Aug. 6.
- Gray & Danielson Mfg. Co. (See Danielson, Ernest G., assignor.)
- Gray & Danielson Mfg. Co. (See Wise, Roger M., assignor.)
- Gray, Edwin D., E. L. Scofield, and E. C. Defoe, Richmond, assignors, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Refining mineral lubricating oils. 1,716,632; June 11.



- Gray, Edwin T., assignor to W. H. S. Lloyd Co., New York, N. Y. Wall panel. Des. 80,220; Dec. 31.
- Gray, Edwin T., assignor to W. H. S. Lloyd Co., New York, N. Y. Wall panel. Des. 80,221; Dec. 31.
- Gray, Edwin T., assignor to W. H. S. Lloyd Co., New York, N. Y. Wall panel. Des. 80,222; Dec. 31.
- Gray, Ellsworth, Houston, Tex. Pump. 1,720,672; July 16.
- Gray, Ellsworth, assignor to Gray Tool Company, Houston, Tex. Milling tool. 1,698,496; Jan. 8.
- Gray, Ellsworth, Houston, Tex. Pump plunger. 1,700,568; Jan. 29.
- Gray, Ellsworth, and R. A. Mueller, Houston, Tex. Back-pressure valve for drilling rigs. 1,740,770; Dec. 24.
- Gray, G. A., Company, The. (See Cardullo, F. E., and Hunt, assignors.)
- Gray, George W., assignor to The Texas Company, New York, N. Y. Lubricating composition. 1,716,310; June 4.
- Gray, George W., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Process and apparatus for the cracking of hydrocarbon oils. 1,724,760; Aug. 13.
- Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Composite product and making same. 1,697,275; Jan. 1.
- Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making composite product. 1,719,930; July 9.
- Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Article of rubber and making same. 1,732,836; Oct. 22.
- Gray, Harry L., assignor to Eastman Kodak Company, Rochester, N. Y. Making cellulose esters of high uniformity. 1,711,940; May 7.
- Gray, Harry L., assignor to Eastman Kodak Company, Rochester, N. Y. Increasing the uniformity of cellulose esters. 1,711,941; May 7.
- Gray, Ishmael H., Indianapolis, Ind. Swinging tag forked mounting. 1,738,892; Dec. 10.
- Gray, James A., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Creased flange. Re17,397; Aug. 6.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Handle-soldering apparatus. 1,705,971; Mar. 19.
- Gray, James G., Glasgow, Scotland. Gyroscopic apparatus. 1,736,039; Nov. 19.
- Gray, Jasper L., Gastonia, N. C. Conveyor-pipe cleaner. 1,701,882; Feb. 12.
- Gray, Jesse L., R. W. Gunn, and W. A. S. Thompson, assignors, by mesne assignments, to Emseo Derrick & Equipment Company, Los Angeles, Calif. Making hard-shell pump-rod couplings and the like. 1,703,232; Feb. 26.
- Gray, Lynn, Waupun, Wis., assignor to Paramount Textile Machinery Co., Chicago, Ill. Hosiery-finishing apparatus. 1,709,397; Apr. 16.
- Gray, Maude, Cumberland Foreside, Me. Advertising novelty. 1,722,465; July 30.
- Gray, Peter, & Sons, Inc. (See Kelsea, Clarence H., assignor.)
- Gray, Philander R., deceased; Alanson Mcd. Gray, administrator, assignor to The Gray Processes Corporation, Newark, N. J. 1,728,284; Sept. 17.
- Gray Processes Corporation, The. (See Gray, Philander R., assignor.)
- Gray, Ralph B., Chicago, Ill. Windshield wiper. 1,725,860; Aug. 27.
- Gray, Raymond A., Rock, Kans. Tire inflater. 1,713,899; May 21.
- Gray, Roscoe T., Brookfield, Mo. Apparatus for scoring ice. 1,706,227; Mar. 19.
- Gray, Ross E., Washington, D. C. Pantographic-reproducing apparatus. 1,734,573; Nov. 5.
- Gray, Russell J., assignor to Gray Company, Inc., Minneapolis, Minn. Pneumatic grease gun. 1,717,024; June 11.
- Gray, Thomas, Lyndon, Kans. Baling block. 1,698,131; Jan. 8.
- Gray Tool Company. (See Gray, Ellsworth, assignor.)
- Gray, Wallace C., Assiniboia, Saskatchewan, Canada. Flexible drive. 1,734,427; Nov. 5.
- Gray, William C., et al. (See Zim, Jesse G., assignor.)
- Gray, William C., Richmond, Va., assignor of one-half to J. E. Moss. Direction signal for automobiles. Des. 79,423; Sept. 17.
- Gray, William C., Washington, D. C., assignor to C. L. Goodwin, Richmond, Va. Cedar lining for clothes closets. 1,732,510; Oct. 22.
- Gray, William E. (See Creighton, F. M., and Gray.)
- Gray, William E., London, England. Undercarriage for aeroplanes. 1,716,439; June 11.
- Gray, William L., North Weymouth, Mass., assignor to Bethlehem Shipbuilding Corporation. Pneumatic rivet passer. 1,728,605; Sept. 17.
- Gray, William T., Timperley, Chester, England, assignor Westinghouse Electric & Manufacturing Company. Coupler for train lines. 1,699,787; Jan. 22.
- Gray Wirelet Corporation. (See Gray, Charles P., assignor.)
- Graybar Electric Company. (See White, Ernest C., assignor.)
- Graybill, James. (See Teague, L. R., and Graybill.)
- Graybill, John H., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage relay. 1,729,871; Oct. 1.
- Graybill, Tully, assignor to Kelly-Springfield Tire Company, Cumberland, Md. Vehicle tire. Des. 77,546; Jan. 22.
- Graydon, Alexander, San Francisco, Calif. Washing machine. 1,705,361; Mar. 12.
- Grayson, Charles J., assignor to The Armstrong Electric and Manufacturing Corporation, Huntington, W. Va. Combined percolator and toaster. Des. 78,688; June 4.
- Grayson, Charles J., assignor to The Armstrong Electric and Manufacturing Corporation, Huntington, W. Va. Electric cooking stove. Des. 78,689; June 4.
- Grayson Engine Company Limited. (See Grayson, George W., assignor.)
- Grayson, George W., assignor to Grayson Engine Company Limited, Sydney, New South Wales, Australia. Control of the supply of fuel to Diesel-cycle or mixed-cycle internal-combustion engines. 1,713,178; May 14.
- Grayson Heat Control, Inc. (See Beler, Adolf, assignor.)
- Grayson, J. H., Manufacturing Company, The. (See Grayson, John H., assignor.)
- Grayson, John H., Southgate, Calif. Thermostat. 1,699,468; Jan. 15.
- Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Gas burner. 1,700,199; Jan. 29.
- Grayson, Pauline, New York, N. Y. Cleaning device. 1,738,993; Dec. 10.
- Grayum, Frank J. (See Jay, Ralph H., assignor.)
- Greany, Leo M. (See Woodward, J. A., and Greany.)
- Greathouse, Josephine A. (See Winsboro, William A., assignor.)
- Great Lakes Manufacturing Company. (See Koch, William F., assignor.)
- Great Northern Paper Company. (See Pope, Charles E., assignor.)
- Great Northern Paper Company. (See Sutherland, Forrest A., assignor.)
- Great Western Electro Chemical Co. (See Hirschkind, Wilhelm, assignor.)
- Great Western Fuse Co. Inc. (See Gillen, George A., assignor.)
- Great Western Manufacturing Company. (See Combs, George W., assignor.)
- Great Western Stove Company. (See Underwood, John A., assignor.)
- Greaves, Wilfred, Shadwell, near Leeds, assignor to Linotype and Machinery Limited, London, England. Photogravure-printing machine. 1,722,961; July 30.
- Grebe, A. H., & Co. (See Pumphrey, Walter H., assignor.)
- Grebe, Alfred H., Hollis, N. Y. Frequency-range extension switch. 1,727,641; Sept. 10.
- Greco, Aurelio M., Waterbury, Conn. Shield for headlights. 1,725,632; Aug. 20.
- Gredell, Otto N., Kansas City, Mo. Forming spiral conveyers. 1,738,994; Dec. 10.
- Gregor, Ralph H. (See Brunst, W. M., and Gregor.)
- Greeley, Philip H., Washington, D. C. Low-frequency electric amplifier circuits. 1,735,750; Nov. 12.
- Green, Albert E., Buffalo, Okla. Cow yoke. 1,731,232; Oct. 8.
- Green, Albert H., assignor to The International Stamping Co., Chicago, Ill. Tire carrier and supporting means therefor. 1,705,184; Mar. 12.
- Green, Andrew T., and R. G. Shaw, Oriskany Falls, N. Y. Ground anchor for guy wires. 1,724,401; Aug. 13.
- Green, Arch B., R. G. Reeve, and R. C. Berlin, San Francisco, Calif. Fruit-juice dispenser. Des. 78,974; July 16.
- Green, Austin E., Medford, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Venting electric switch. 1,741,839; Dec. 31.
- Green, Azaria M., Minneapolis, Minn. Pen and pencil holder. 1,713,380; May 14.
- Green, Charles. (See Miller, Charles E., assignor.)
- Green, Charles W., Iilon, N. Y., assignor to Remington Arms Company, Inc. Combined shelf and lighting fixture. Des. 79,072; July 30.
- Green, Charles W., Iilon, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,700,699; Jan. 29.
- Green, Charles W., Iilon, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,707,188; Mar. 26.
- Green, Charles W., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 1,739,668; Dec. 17.
- Green, Charles W., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier-current signaling system. 1,741,767; Dec. 31.
- Green, De Bscott, Huntington, W. Va. Decorative molding. Des. 78,884; July 2.
- Green, Edgar B., assignor of one-half to G. H. Calvert, Jr., Washington, D. C. Fuse box. 1,714,866; May 28.
- Green, Edward B., Jr., Buffalo, N. Y. Wardrobe. 1,734,768; Nov. 5.
- Green, Edward R., Kansas City, Mo. Crossing signal. 1,712,820; May 14.
- Green, Ellis, Tulsa, Okla. Tubing spider. 1,733,010; Oct. 22.
- Green, Ernest, North English, Iowa, assignor to United States Gypsum Co., Chicago, Ill. Wall-board-joint system. 1,703,667; Feb. 26.
- Green, Estill L., East Orange, N. J., assignor to American Telephone and Telegraph Company. Compensation for phase variations. 1,703,142; Feb. 26.



- Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Single-side-band carrier system. 1,719,052; July 2.
- Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Means to control cross talk. 1,724,082; Aug. 13.
- Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Carrier-signaling system. 1,724,925; Aug. 20.
- Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Frequency-equalization carrier system. 1,735,044; Nov. 12.
- Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Volume control of transmission. 1,738,000; Dec. 3.
- Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Piezo-electric interference eliminator. 1,741,363; Dec. 31.
- Green, Fred O., Holmesburg, assignor to National Publishing Company, Philadelphia, Pa. Book. 1,697,644; Jan. 1.
- Green, George H., Rock Rapids, Iowa. Warning device. 1,709,212; Apr. 16.
- Green, Gilbert, and G. Booth, Long Beach, Calif. Support for light globes. 1,726,701; Sept. 3.
- Green, Gordon C., et al. (See Poole, John H., assignor.)
- Green, Gordon C., Swift Current, Saskatchewan, Canada. Adjustable support for headlights. 1,724,083; Aug. 13.
- Green, Harold, assignor to Celebritone Limited, London, England. Sound-amplifying system. 1,734,944; Nov. 5.
- Green, Harold V., Chicago, Ill., assignor to General Electric Company. Magnetic circuit controller. 1,713,223; May 14.
- Green, Heatley, executor. (See Copland, Alexander W.)
- Green, Henry, Fort Worth, Tex. Self-primer vacuum-feed carburetor. 1,707,962; Apr. 2.
- Green, Herbert, Toronto, Ontario, Canada. Switch for alarm clocks. 1,729,718; Oct. 1.
- Green, Howard B., assignor to The Kilgore Manufacturing Company, Westerville, Ohio. Toy scale. 1,710,307; Apr. 23.
- Green, Ira, et al. (See Hammill, Paul J. A., assignor.)
- Green, Ira L., White River Junction, Vt. Dispensing container. 1,717,025; June 11.
- Green, Irving W., Cranford, N. J., assignor to American Telephone and Telegraph Company. Telephone system. 1,723,153; Aug. 6.
- Green, Irving W., Cranford, N. J., assignor to American Telephone and Telegraph Company. Arrangement for establishing time intervals. 1,728,239; Sept. 17.
- Green, Irving W., Cranford, and A. H. Inglis, Upper Montclair, N. J., assignors to American Telephone and Telegraph Company. Universal telephone set. 1,734,124; Nov. 5.
- Green, J. Birchard, Chicago, Ill. Process and machine for drawing wire. 1,697,863; Jan. 8.
- Green, J. Birchard, Chicago, Ill. Welding rod. 1,720,039; July 9.
- Green, J. Birchard, Chicago, Ill. Apparatus for testing and otherwise utilizing filler rods. 1,722,570; July 30.
- Green, J. Birchard, assignor to Chicago Steel & Wire Company, Chicago, Ill. Metallic arc welding. 1,697,864; Jan. 8.
- Green, J. Birchard, Chicago, Ill. Rod for use in arc welding or cutting. 1,733,795; Oct. 29.
- Green, Jack, Norfolk, Va. Attachment for pneumatic tires. 1,728,825; Sept. 17.
- Green, James, Brackenridge Heights, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for cleaning plate-glass-grinding tables or cars. 1,705,915; Mar. 19.
- Green, James A., assignor to The Brooks Bank & Trust Company, Torrington, Conn. Collapsible bench. 1,738,473; Dec. 3.
- Green, James B. (See Benbow, J. D., and Green.)
- Green, James M., and C. J. Kjenstad, Hayti, S. Dak. Motor-driven snowplow. 1,707,908; Apr. 2.
- Green, Jerome R. L., Sacramento, Calif. Hybrid electrical switch. 1,730,764; Oct. 8.
- Green, John E., Greenville, Tex. Apparatus for sealing oil wells. 1,697,114; Jan. 1.
- Green, John W. (See Dozier, L. D., Green, and Grindler.)
- Green, Lee B., Lakewood, assignor to The Borden Company, Warren, Ohio. Washing-machine casing. Des. 78,747; June 18.
- Green, Lee B., Lakewood, assignor to The Borden Company, Warren, Ohio. Casing for a combined clothes washing and drying machine. Des. 78,748; June 18.
- Green, Lee B., Lakewood, assignor to The Borden Company, Warren, Ohio. Pressing apparatus. 1,710,698; Apr. 30.
- Green, Lee B., Lakewood, assignor to The Borden Company, Warren, Ohio. Drive mechanism. 1,735,459; Nov. 12.
- Green, Monroe, Brooklyn, N. Y. Multiple-float speed boat. 1,726,618; Sept. 3.
- Green, Oron B., Hammond, Ind. Wheel remover. 1,704,600; Mar. 5.
- Green, Paul, assignor to Everybody's Talking Machine Company, Incorporated, Philadelphia, Pa. Spring. 1,699,964; Jan. 22.
- Green, Robert E., Mobile, Ala. Pressing-machine attachment. Re17,216; Feb. 12.
- Green, Samuel G., Gray, Ga. Tripod mount for antiaircraft machine guns. 1,701,153; Feb. 5.
- Green, Samuel G., Gray, Ga. Sighting system for antiaircraft guns. 1,709,013; Apr. 16.
- Green, Samuel G., Gray, Ga. Recoil mount for guns. 1,735,164; Nov. 12.
- Green, Thomas C., Nashville, Tenn. Safety razor. 1,735,751; Nov. 12.
- Green, Thomas L., Indianapolis, Ind. Biscuit cutting and embossing machine. 1,708,089; Apr. 9.
- Green, Thomas W., assignor to Thomas Wilbraham Green Engineering Co., Philadelphia, Pa. Suction street cleaner. 1,704,043; Mar. 5.
- Green, Thomas W., assignor to Thomas Wilbraham Green Engineering Co., Philadelphia, Pa. Rotary blower. 1,729,826; Oct. 1.
- Green, Thomas Wilbraham, Engineering Co. (See Green, Thomas W., assignor.)
- Green, Vernon E., Little Falls, N. Y. Tape-cutting machine. 1,733,796; Oct. 29.
- Green, Victor P. H., et al. (See Hammill, Paul J. A., assignor.)
- Green, Walter H., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Water-softening apparatus. 1,702,256; Feb. 19.
- Green, Walter H., assignor to General Zeolite Company, Chicago, Ill. Softening water. 1,702,257; Feb. 19.
- Green, Walter H., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Apparatus and method for preparing and proportioning dosing mixtures. 1,722,571; July 30.
- Green, Walter J., Pittsburgh, Pa. Mold for casting bi-metal products. 1,723,345; Aug. 6.
- Green, William, Brooklyn, N. Y. Window guard. 1,728,270; Sept. 17.
- Green, William D., assignor to Combined Metals Reduction Company, Bauer, Utah. Separation of mixed sulphide ores by flotation. 1,721,993; July 23.
- Green, William S., Hoopston, Ill. Holding appliance for boring machines. 1,697,276; Jan. 1.
- Greenawalt, John E. (See Alexovits, Thomas M., assignor.)
- Greenawalt, John E., New York, N. Y. Grate or metallurgical apparatus. 1,704,681; Mar. 5.
- Greenbaum, Leo, Far Rockaway, E. Van Hoofstadt, Brooklyn, and C. Gustavson, Woodside, assignors to Lion Match Co., Inc., New York, N. Y. Book-match machine. 1,708,540; Apr. 9.
- Greenbaum, Leo, Far Rockaway, and E. Van Hoofstadt, Oceanside, N. Y., assignors to Lion Match Company, Inc. Match book. 1,733,258; Oct. 29.
- Greenberg, Benjamin, and M. Tarnoff, New York, N. Y. Manufacture of skins for fur coats. 1,724,192; Aug. 13.
- Greenberg, Herman, et al. (See Norton, John H., assignor.)
- Greenberg, Israel, Los Angeles, Calif. Machine for manufacturing roofing tile. 1,711,849; May 7.
- Greenberg, Louis, Chicago, Ill. Oscillating device. 1,739,587; Dec. 17.
- Greenberg, Mandel, Brooklyn, N. Y. Combination umbrella and cap. 1,718,417; June 25.
- Greenburg, Meyer, assignor to National Refrigerator Co., Philadelphia, Pa. Refrigerator show case. 1,735,642; Nov. 12.
- Greenburg, Roland E., Whiting, Ind., assignor to Sinclair Refining Company, East Chicago, Ind. Pressure gauge. 1,715,128; May 28.
- Greene, Andrew S., Goffstown, N. H. Machine for forming tapered cork stoppers. 1,705,185; Mar. 12.
- Greene, Arthur S., North Milwaukee, Wis. Receptacle holder. 1,739,588; Dec. 17.
- Greene, Austin E., Medford Hillside, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Cable connector. 1,718,817; June 25.
- Greene, Bessie B. (See Greene, Fred E., assignor.)
- Greene, Curtis, San Diego, Calif. Erasing device. 1,715,912; June 4.
- Greene, David W., assignor to M. E. Bernhardt Company, Inc., New York, N. Y. Portable lighter. 1,703,033; Feb. 19.
- Greene, David W., New York, N. Y., assignor, by mesne assignments, to M. E. Bernhardt Company, Inc., New York, N. Y. Portable lighter. 1,717,205; June 11.
- Greene, David W., assignor to M. E. Bernhardt Company, Inc., New York, N. Y. Portable lighter. 1,718,902; June 25.
- Greene, Elmer E., Altoona, Pa. Weather strip. 1,728,120; Sept. 10.
- Greene, Frank, Toronto, Ontario, Canada. Printer's chase. 1,728,561; Sept. 17.
- Greene, Frank C., Milwaukee, Wis. Furnace and stoker therefor. 1,717,923; June 18.
- Greene, Frank C., Waukegan, and O. H. Hertel, Chicago, Ill. Muffle furnace. 1,730,570; Oct. 8.
- Greene, Frank C., Waukegan, Ill., and I. F. Laucks, Seattle, Wash., assignors to Old Ben Coal Corporation, Chicago, Ill. Apparatus for carbonizing coal and the like. 1,723,932; Aug. 6.
- Greene, Frank C., Denver, Colo., and I. F. Laucks, Seattle, Wash., assignors to Old Ben Coal Corporation, Chicago, Ill. Apparatus for extracting values from coal and like materials. 1,730,569; Oct. 8.
- Greene, Fred E., assignor to B. B. Greene, Berkeley, Calif. Mixer for paving materials. 1,713,222; May 14.
- Greene, Fred E., Escalon, assignor to B. B. Greene, Berkeley, Calif. Paving machine. 1,717,704; June 18.



- Greene, Frederick E. (See Hinman, G. L., and Greene.)  
 Greene, Frederick E., assignor to The Greist Manufacturing Company, New Haven, Conn. Portable electric lamp. Des. 77,405; Jan. 8.  
 Greene, Frederick E., assignor to The Greist Manufacturing Company, New Haven, Conn. Portable electric lamp. Des. 77,406; Jan. 8.  
 Greene, Frederick J., and E. W. Belluche, assignors to The Christensen Machine Company, Racine, Wis. Signature-detecting device. 1,716,773; June 11.  
 Greene, Gilbert F., Washington, D. C. Safety razor. 1,701,036; Feb. 5.  
 Greene, Harry A., jr. (See Wood, S. J., and Greene.)  
 Greene, Haskell M., Taft, Calif. Cementing oil, gas, and water wells. 1,734,670; Nov. 5.  
 Greene, Irl D., Davenport, Iowa. Torch support. 1,704,473; Mar. 5.  
 Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Sheet-handling device. 1,700,300; Jan. 29.  
 Greene, John S., assignor to The Photostat Corporation, Rochester, N. Y. Sheet-handling device. 1,709,788; Apr. 16.  
 Greene, Lloyd C., Winthrop, assignor to T. C. Deutschmann, trustee, Cambridge, Mass. Radio actuated figure toy. 1,726,294; Aug. 27.  
 Greene, Nathaniel C., New York, N. Y., assignor to Polymet Manufacturing Corporation. Electrical plug. 1,697,237; Jan. 1.  
 Greene, Nathaniel C., New York, N. Y., assignor to Polymet Manufacturing Corporation. Variable-resistance device. 1,697,238; Jan. 1.  
 Greene, Nathaniel C., New York, N. Y., assignor to Polymet Manufacturing Corporation. Electrical plug. 1,735,856; Nov. 19.  
 Greene, Oscar V., Cleveland, Ohio. Filter element. 1,734,125; Nov. 5.  
 Greene, Otto W., Elyria, assignor to Industrial Research Corporation, Toledo, Ohio. Charge-forming device. 1,738,823; Dec. 10.  
 Greene, Percy W., Whitman, assignor to P. E. Barbour, Quincy, trading as Barbour Welding Company, Brockton, Mass. Making welding. 1,732,810; Oct. 22.  
 Greene, Walter R., Ambridge, Pa. Nonglare headlight. 1,713,335; May 14.  
 Greene, Whitney E., Wellesley Hills, Mass. Piston-ring-compressing sleeve. 1,706,780; Mar. 26.  
 Greenbaum, Samuel, Kansas City, Mo. Wall board. 1,706,661; Mar. 26.  
 Greenwald, Eugene L., Brooklyn, N. Y. Closure and making the same. 1,698,993; Jan. 15.  
 Greenwalt, Mary H., Philadelphia, Pa. Control system for light and color players. 1,714,504; May 28.  
 Greenwalt, Mary H., Philadelphia, Pa. Instrument for light and color play. 1,731,772; Oct. 15.  
 Greenfield, Benjamin, Jackson Heights, N. Y., assignor to Combustion Utilities Corporation, New York, N. Y. Lubricating system for air blowers. 1,702,939; Feb. 19.  
 Greenfield, Benjamin, Jackson Heights, assignor to Combustion Utilities Corporation, New York, N. Y. Fluid pump. 1,727,168; Sept. 3.  
 Greenfield, Benjamin, Jackson Heights, assignor to Combustion Utilities Corporation, New York, N. Y. Fluid pump. 1,740,587; Dec. 24.  
 Greenfield Tap and Die Corporation. (See Drake, Alden M., assignor.)  
 Greenfield, William A., Edmonton, Alberta, Canada. Hawaiian guitar. 1,733,595; Oct. 29.  
 Greenfield, William H., Philadelphia, Pa. Electric heater. Des. 77,441; Jan. 8.  
 Greenhalgh, George H., Newark, N. J., assignor to E. J. Sweetland, Hazelton, Pa. Filter. 1,721,250; July 16.  
 Greenhalgh, George H., Newark, N. J., and R. P. F. Liddell, New York, N. Y., assignors to Motors Improvements, Inc. Purifier for contaminated liquids. 1,741,696; Dec. 31.  
 Greenhaus, Abraham S., New York, N. Y. Combined mailing and filing envelope. 1,722,911; July 30.  
 Greenhouse, Samuel, Akron, Ohio. Valve. 1,716,850; June 11.  
 Greenleaf, Robert M., and O. L. Routt, assignors to Plastoid Products, Inc., Los Angeles, Calif. High-speed mixer. 1,725,186; Aug. 20.  
 Greenleaf, Robert P., Shaker Heights, assignor to F. Billings, Cleveland, Ohio. Loading machine. 1,726,065; Aug. 27.  
 Greenlee Bros. & Co. (See Abramson, John H., assignor.)  
 Greenlee Bros. & Co. (See Hawkinson, A. H., and Peterson, assignors.)  
 Greenlee Bros. & Co. (See Mansfield, Judson H., assignor.)  
 Greenlee Bros. & Co. (See Mansfield, J. H., and Wiken, assignors.)  
 Greenlee Bros. & Co. (See Swenson, Carl A., assignor.)  
 Greenpoint Metallic Bed Co. (See Frank, Louis, assignor.)  
 Greenslade, Grover R., Pittsburgh, F. K. Landgraf, Crafton, and J. R. Flannery, assignors to Flannery Bolt Company, Pittsburgh, Pa. Pot. 1,721,994; July 23.  
 Greensmith, James E., Brookline, assignor to Boston Scale & Machine Company, Boston, Mass. Hydraulic grinder. 1,718,554; June 25.  
 Greenstone Silk Corporation. (See Brandenburg, Edwin B., assignor.)  
 Greenstreet, Charles J., assignor to Gasoline Corporation, New York, N. Y. Treating hydrocarbon oils. 1,718,913; June 25.  
 Greenstreet, Charles J., New York, N. Y., assignor to Gasoline Corporation. Apparatus and process of treating hydrocarbon oils. 1,740,691; Dec. 24.  
 Greenstreet, Oliver P., assignor of one-third to J. T. Tate and one-fourth to D. E. Kriete, Owensville, Mo. Washing appliance. 1,736,738; Nov. 19.  
 Greenville Steel Car Company, The. (See Gardner, Kenneth C., assignor.)  
 Greenwald, Harold A. (See Weeks, J. R., and Greenwald.)  
 Greenwald, Harold A., assignor to T. C. Whitehead, Detroit, Mich. Refrigerating apparatus. 1,718,953; July 2.  
 Greenwald, Harold A., assignor to T. C. Whitehead, Detroit, Mich. Condenser for refrigerating apparatus. 1,722,699; July 30.  
 Greenwald, Harold A., assignor to T. C. Whitehead, Detroit, Mich. Brine tank. 1,741,458; Dec. 31.  
 Greenwald, Harold A., and F. J. Heideman, assignors to T. C. Whitehead, Detroit, Mich. Brine tank. 1,701,179; Feb. 5.  
 Greenwald, Harold A., and F. J. Heideman, assignors to T. C. Whitehead, Detroit, Mich. Valve for pump assemblies. 1,718,350; June 25.  
 Greenwald, Mabel A., Meridian, Miss. Towel-drying attachment for stoves. 1,717,772; June 18.  
 Greenwald, Oscar, Brooklyn, assignor to Faichney Instrument Corporation, Watertown, N. Y. Pocket-thermometer case. 1,739,669; Dec. 17.  
 Greenwald, Roy C., and G. E. Thimmes, Mechanicsville, Iowa; said Greenwald assignor to said Thimmes. Sample holder. 1,742,069; Dec. 31.  
 Greenwald, Sol, Brooklyn, N. Y. Shoe heel. Des. 79,073; July 30.  
 Greenwald, Willard F. (See Kietz, A., Greenwald, and Weisberg.)  
 Greenwood, Charles H., Canton, Ohio. Needle bar. 1,697,424; Jan. 1.  
 Greenwood, Charles H., Canton, Ohio. Presser bar. 1,699,107; Jan. 15.  
 Greenwood, Charles H., Canton, Ohio. Arm and bedplate for sewing machines. 1,708,296; Apr. 9.  
 Greenwood, Charles H., Belvidere, Ill. Sewing machine. 1,699,354; Jan. 15.  
 Greenwood, Chester, Farmington, Me. Kettle. 1,716,124; June 4.  
 Greenwood, Oliver P., Billerica, and H. B. Bettinger, Waltham; said Greenwood assignor to Saco-Lowell Shops, Lowell, Mass. Refrigerator lining and manufacturing same. 1,740,237; Dec. 17.  
 Greenwood, Paul, West Haven, Conn. Electric riveting hammer and drill. 1,703,997; Mar. 5.  
 Greenwood Talma T., East Templeton, assignor to Condit Electrical Manufacturing Corporation, Boston, Mass. Electrically-operated circuit interrupter. 1,720,413; July 9.  
 Greenwood, Willey. (See Wise, F. C., and Greenwood.)  
 Greer, Clarence M. (See Greer, John A. and C. M.)  
 Greer, Edward L., Detroit, and T. J. Brady, Pontiac, Mich. Manufacturing centers. 1,733,594; Oct. 29.  
 Greer, Edward R., Minneapolis, and E. L. Carson, St. Paul, Minn. Power dumping mechanism. 1,704,430; Mar. 5.  
 Greer, Frederick W. (See Greer, Jesse W. and F. W.)  
 Greer, Jesse W., Cambridge, Mass. Conveyor. 1,704,881; Mar. 5.  
 Greer, Jesse W. and F. W., Cambridge, Mass. Confection-conveying machine. 1,732,228; Oct. 22.  
 Greer, John A., Neponset, and C. M. Greer, Elmhurst, Ill. Combined advertising and station-indicating device. 1,716,723; June 11.  
 Greer, Percy E., Columbia, Pa. Swimmer's appliance. 1,727,202; Sept. 3.  
 Greer, Tony S., Sacramento, Calif. Cover lock for vehicle fuel tanks. 1,716,724; June 11.  
 Greer, William E., assignor to The Akron Standard Mold Company, Akron, Ohio. Tire. Des. 77,690; Feb. 12.  
 Grefenstette, John J., Toledo, Ohio. Hot-air furnace. 1,712,699; May 14.  
 Gregersen, Siegfried W., Crookston, Nebr. Hammer. 1,742,032; Dec. 31.  
 Gregg, Bessie L. (See Campbell, F. N., and Myatt, assignors.)  
 Gregg, Charles F., Indianapolis, Ind. Dry-cleaning machine. 1,709,012; Apr. 16.  
 Gregg Company Ltd., The. (See Gregg, Louis D., assignor.)  
 Gregg Company, Ltd., The. (See Gregg, William B., assignor.)  
 Gregg Company, The. (See Gregg, William B., assignor.)  
 Gregg George T., Oakmont, Pa. Denture attachment. 1,721,443; July 16.  
 Gregg, John. (See Douglas, S. W., Gregg, and Silcock.)  
 Gregg, Joseph B., New York, N. Y. Container. 1,705,289; Mar. 12.  
 Gregg, Louis D., assignor to The Gregg Company Ltd., Hackensack, N. J. Railway journal box. 1,720,324; July 9.  
 Gregg, Louis D., assignor to The Gregg Company Ltd., Hackensack, N. J. Pedestal brace. 1,730,036; Oct. 1.  
 Gregg, Robert D., assignor of one-half to F. L. Shidler, Kankakee, Ill. Forming concrete pavements, etc. 1,726,222; Aug. 27.



- Gregg, Robert D., assignor of one-half to F. L. Shidler, Kankakee, Ill. Expansion strip for concrete roadways. 1,726,263; Aug. 27.
- Gregg, Robert D. and F. L. Shidler, Kankakee, Ill. Longitudinal joint for concrete roadways. 1,704,431; Mar. 5.
- Gregg, Thomas, Larne, Ireland. Tar heating and spraying apparatus combined with steam road rollers. 1,702,690; Feb. 19.
- Gregg, William B., Hackensack, N. J., assignor to The Gregg Company, Ltd. Railway-car underframe. 1,698,948; Jan. 15.
- Gregg, William B., Hackensack, N. J., assignor to The Gregg Company, Limited, New York, N. Y. Truck bolster. 1,725,912; Aug. 27.
- Gregg, William B., assignor to The Gregg Company, Ltd., Hackensack, N. J. Railway-car-frame reinforcement. 1,730,035; Oct. 1.
- Gregorich, James, Joliet, Ill., assignor to The Dorr Company, New York, N. Y. Feed repulper for sedimentation apparatus. 1,739,302; Dec. 10.
- Gregorius, Joseph S. (See Koupal, W. G., and Gregorius.)
- Gregorson, J. Edward. (See Dougherty, Daniel J., assignor.)
- Gregory, Albert C., Lancaster, Pa. Signal light. 1,712,665; May 14.
- Gregory, Alva E., Oklahoma City, Okla. Adjustment table. 1,735,569; Nov. 12.
- Gregory, Arnold W., deceased, by M. A. Gregory, Greenwich, London, England, executrix. Treatment of ores for the recovery of titanium. 1,734,034; Nov. 5.
- Gregory, Bige, assignor, of seven-sixteenths to G. W. Lisenbee and one-eighth to M. G. Poteet, Vernon, Tex. Maize header. 1,794,083; Mar. 5.
- Gregory, Carey G., Los Angeles, Calif. Fountain-pen holder. 1,732,467; Oct. 22.
- Gregory, Harold D., Milwaukee, Wis. Dispensing device for stacked articles. 1,704,318; Mar. 5.
- Gregory, Harold D., Washington, D. C. Power-reverse mechanism. 1,724,926; Aug. 20.
- Gregory, Margaret A., executrix. (See Gregory, Arnold W.)
- Gregory, Miles S., Parris, Calif. Tractor hitch. 1,729,104; Sept. 24.
- Gregory & Read Company. (See Gulliford, Nicholas L., assignor.)
- Gregory, Richard W., Hexham-on-Tyne, and L. C. Grant, assignors to Electrical Improvements Limited, Newcastle-upon-Tyne, England. Electric fuse. 1,705,400; Mar. 12.
- Gregory, Stephen A., Stamford, Conn. Article holder. 1,736,591; Nov. 19.
- Gregory, Thurlow G. (See Wilson, Steven, assignor.)
- Gregonson, Robert W., Pittsburgh, Pa. Safety razor. 1,730,004; Oct. 1.
- Greibach, Emil H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,699,788; Jan. 22.
- Greibach, Emil H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Graphic instrument. 1,740,456; Dec. 24.
- Greig, Walter. (See Hagemann, L. F., and Greig.)
- Greig, Walter, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold pad. 1,724,080; Aug. 13.
- Greiling, David J., Cleveland Heights, assignor to The Bishop Babcock Manufacturing Co., Cleveland, Ohio. Refrigerating cabinet. 1,698,182; Jan. 8.
- Greim, Arthur M. (See Glidden, A. A., Knowland, and Greim.)
- Greiman, George H., Garner, Iowa. Bucket-unloading device for excavators. 1,719,328; July 2.
- Greiner, Carl. (See Tauffenbach V., and Greiner.)
- Greiner, Fritz, Cannstatt, Stuttgart, Germany. Manufacture of strong machinable cast iron. 1,726,433; Aug. 27.
- Greisen, Elijah C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Commiauting mill. 1,710,659; Apr. 23.
- Greiser, Erich, Berlin-Neukolln, Germany. Atomizing device for pulverulent material. 1,736,969; Nov. 26.
- Greist Manufacturing Company, The. (See Carmichael, Andrew J., assignor.)
- Greist Manufacturing Company, The. (See Carmichael, A. J., and Balzano, assignors.)
- Greist Manufacturing Company, The. (See Carmichael, A. J., and Wunderlich, assignors.)
- Greist Manufacturing Company, The. (See Greene, Frederick E., assignor.)
- Greist Manufacturing Company, The. (See Hinman, George L., assignor.)
- Greist Manufacturing Company, The. (See Hinman, G. L., and Greene, assignors.)
- Greist, Raymond L., assignor to Electric Holding Corporation, Chicago, Ill. Racing-track apparatus. 1,714,088; May 21.
- Greitzer, Meyer, Newark, N. J. Ball-bearing roller mounting for sliding doors or the like. 1,731,659; Oct. 15.
- Gremling, Joseph A. (See Newton, M. C., and Gremling.)
- Grenier, Maurice, et al. (See Massé, Albert, assignor.)
- Grenier, William H., Antigo, Wis. Hoist. 1,699,587; Jan. 22.
- Grennan, Phillip H., Detroit, Mich. Display stand. 1,703,340; Feb. 26.
- Gresak, Matthew, Du Bois, Pa. Extensible window screen. 1,735,458; Nov. 12.
- Gresham, Mildred C., St. Petersburg, Fla. Statuette. Des. 79,515; Oct. 1.
- Gresley, Herbert N., Hadley Wood, England. Locomotive. 1,731,856; Oct. 15.
- Gresser, Peter, Detroit, Mich. Lubricant connection. 1,697,314; Jan. 1.
- Greswold, Forrest E., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Radio speaker diaphragm. 1,738,575; Dec. 10.
- Gretencort, John, Lewistown, Mont. Clay-treating attachment for pug mills. 1,740,504; Dec. 24.
- Grether, Ellsworth T., Jefferson City, Mo. Hydrostep for fish streams. 1,730,005; Oct. 1.
- Grether, Ernst F., assignor to The Dow Chemical Company, Midland, Mich. Preparing aminophenolethers. 1,722,417; July 30.
- Grether, John L., assignor to P. W. Grether, St. Louis, Mo. Heating stove. 1,698,090; Jan. 8.
- Grether, Paul W. (See Grether, John L., assignor.)
- Greune, Heinrich. (See Kränzlein, G., Vollmann, Greune, and Wolfram.)
- Greune, Heinrich, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Cyclic ketonic compound and making it. 1,702,002; Feb. 12.
- Greuter, Charles R., Chicago, Ill. Intake heater. 1,722,846; July 30.
- Greve, Edgar E., Bellevue, Pa. Hoist drum. 1,700,313; Jan. 29.
- Greve, Edgar E., Bellevue, Pa. Combined air chamber and fluid strainer for pumps. 1,703,143; Feb. 26.
- Greve, Edgar E., Bellevue, Pa. Brake mechanism for hoisting drums. 1,706,921; Mar. 26.
- Greve, Edgar E., Bellevue, Pa. Safety hook. 1,711,346; Apr. 30.
- Greve, Edgar E., Bellevue, Pa. Pumping-jack frame. 1,716,817; June 11.
- Greve, Edgar E., Bellevue, Pa. Rotary drilling machine. 1,722,085; July 23.
- Greve, Edgar E., Bellevue, Pa. Rotary with power-measuring means. 1,734,482; Nov. 5.
- Greve, Ernest P. (See Fennell, J. M., and Greve.)
- Greve, Herman L., New York, N. Y. Mailing wrapper for photographs. 1,710,637; Apr. 23.
- Greve, John E. W., Chemnitz, Germany. Adding machine. 1,707,303; Apr. 2.
- Greve, John E. W., and A. M. Klaar, Chemnitz, Germany. Calculating machine. 1,727,765; Sept. 10.
- Greve, Louis W., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Air tool. 1,716,049; June 4.
- Greve, Louis W., assignor to The Champion Machine & Forging Company, Cleveland, Ohio. Automatic forging machine. 1,727,820; Sept. 10.
- Grey, J. N., et al. (See Dyess, Henry O., assignor.)
- Gribbel, Wakeman G., assignor to American Meter Company, Philadelphia, Pa. Protecting means for gas meters. 1,722,246; July 23.
- Gribble, John M., assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill. Electrical connector. 1,697,954; Jan. 8.
- Gridley Dairy Co. (See Kelly, F. W., and Luedicke, assignor.)
- Grieb, Fritz, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrical distribution system. 1,710,256; Apr. 23.
- Grieb, Fritz, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Interconnection of electrical systems. 1,725,633; Aug. 20.
- Griebler, George J., and B. W. Koepnick, Spokane, Wash.: said Koepnick assignor to said Griebler. Heating device for buildings. 1,707,609; Apr. 2.
- Griem, Julius, Appleton, Wis. Motion-picture apparatus. 1,718,782; June 25.
- Grier, Edward B., West Hartford, assignor to The Arrow-Hart and Hegeman Electric Company, Hartford, Conn. Face plate or similar article. Des. 79,926; Nov. 19.
- Grier, Herbert E., assignor, by mesne assignments, to R. H. Comey Brooklyn Company, Inc., Brooklyn, N. Y. Dyeing. 1,720,595; July 9.
- Grier, Herbert E., assignor, by mesne assignments, to R. H. Comey Brooklyn Company, Inc., Brooklyn, N. Y. Dyeing. 1,720,596; July 9.
- Grier, John A., Sumter, S. C. Refrigerating machine. 1,724,874; Aug. 13.
- Grier, John A., assignor to Dubilier Condenser Corporation, New York, N. Y. Amplifying device for radio apparatus. 1,733,983; Oct. 29.
- Grier Press, Inc. (See Agnew, A. C. and Howard, assignors.)
- Griesbaum, Erwin, St. Louis, Mo. Railroad-rail splice bar. 1,708,501; Apr. 9.
- Griesell, Frederick, Milwaukee, Wis. Clamp. 1,716,887; June 11.
- Grieshaber, Emil, assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Valve gear. 1,735,045; Nov. 12.
- Griesinger, John. (See Frey, E. E., and Griesinger.)
- Griesinger, John, Los Angeles, Calif. Identification device. 1,702,599; Feb. 19.
- Griessbach, Robert. (See Gaus, W., Griessbach, and Schliephake.)



- Griessbach, Robert, and O. Ambros, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Valuable products from organized substances. 1,724,706; Aug. 13.
- Griest, George G., Cincinnati, Ohio. Press. 1,702,344; Feb. 19.
- Grieve, Thomas S., Leicester, England. Circular-knitting machine. 1,716,691; June 11.
- Grifalconi, Giuseppe, Larchmont, N. Y. Abrading tool. 1,710,308; Apr. 23.
- Griffen & Bowen, Inc. (See Bowen, Lester W., assignor.)
- Griffen Wheel Company. (See Vial, F. K., and Fitzsimmons, assignors.)
- Griffey, William R., Indianapolis, Ind. Mirror bracket. 1,728,931; Sept. 24.
- Griffin, Alvah M. (See Wofford, George, sr., assignor.)
- Griffin, Alvah M., assignor, by mesne assignments, to Consolidated Steel Corporation, Los Angeles, Calif. Floating deck, gas-tight type. 1,716,491; June 11.
- Griffin, Alvah M., assignor, by mesne assignments, to Consolidated Steel Corporation, Los Angeles, Calif. Floating deck and swing pipe therefor. 1,734,622; Nov. 5.
- Griffin, Alvah M., assignor, by mesne assignments, to Consolidated Steel Corporation, Los Angeles, Calif. Floating deck for reservoirs. 1,734,623; Nov. 5.
- Griffin, Alvah M., assignor, by mesne assignments, to Consolidated Steel Corporation, Los Angeles, Calif. Floating deck and ladder therefor. 1,736,825; Nov. 26.
- Griffin, Alvah M., assignor, by mesne assignments, to Consolidated Steel Corporation, Los Angeles, Calif. Mud flume. 1,740,732; Dec. 24.
- Griffin, Arthur L., assignor of one-half to E. E. Johnson, Los Angeles, Calif. Headlight and operating means. 1,710,819; Apr. 30.
- Griffin, Dewey J., Erie, Pa., assignor to The A. Gottfried Co. Mold for casting organ-pipe toes. 1,697,762; Jan. 1.
- Griffin, James H., New York, N. Y. Mop. 1,718,137; June 18.
- Griffin, James H., Grantwood, N. J. Roof. 1,728,795; Sept. 17.
- Griffin, John, White Plains, N. Y. Combined air and water craft. 1,702,343; Feb. 19.
- Griffin, Joseph F. (See Averil, E. A., and Griffin.)
- Griffin, Joseph F., Tenack, N. J., assignor to The Superheater Company, New York, N. Y. Locomotive-smokebox wall construction. 1,700,888; Feb. 5.
- Griffin, Joseph F., Tenack, N. J., assignor to The Superheater Company, New York, N. Y. Exhaust-steam injector. 1,733,259; Oct. 29.
- Griffin, Joseph F., Tenack, N. J., assignor to The Superheater Company, New York, N. Y. Exhaust-steam injector. 1,738,824; Dec. 10.
- Griffin, Michael, Cincinnati, and H. Auburn, Mount Healthy, assignors to The Tenacity Manufacturing Company, Reading, Ohio. Sheet shifter. 1,739,547; Dec. 17.
- Griffin, Patrick J., assignor, by mesne assignments, to Paramount Spark Plug Corporation, Boston, Mass. Spark plug. 1,710,056; Apr. 23.
- Griffin, Percy M. (See Griffin, Stephen D. and P. M.)
- Griffin, Percy M. (See Hynes, L. P., and Griffin.)
- Griffin, Stephen D. and P. M., Albany, N. Y., assignors of one-third to G. J. Ruoff, Gloversville, N. Y. Combined key and license container. 1,715,752; June 4.
- Griffin Wheel Company. (See Vial F. K., and Starkey, assignor.)
- Griffin, William, Passaic, N. J., assignor to American Car and Foundry Company, New York, N. Y. Vestibule for articulated cars. 1,727,642; Sept. 10.
- Griffin, William M., Fort Wayne, Ind., assignor to The Wayne Home Equipment Company, Baltimore, Md. Combustion tube for oil burners. 1,737,232; Nov. 26.
- Griffs, C. A., Inc. (See Geake, William H. G., assignor.)
- Griffith, Charles A., Seattle, Wash. Safety door bolt. 1,701,302; Feb. 5.
- Griffith, Charles F., Wynnewood, Pa. Fastening means for tool-handles. 1,716,888; June 11.
- Griffith, Charles J., St. Louis, Mo. Railway structure. 1,739,636; Dec. 17.
- Griffith, Charles R., New York, N. Y. Candy mold. 1,705,328; Mar. 12.
- Griffith, Charles T. and J. L. Fagan, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Moistening the tops of welts of stockings. 1,727,203; Sept. 3.
- Griffith, Clement P., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Apparatus for delivering measured quantities of water from reservoirs. 1,731,568; Oct. 15.
- Griffith, Edwin H., Burlington, Iowa. Display rack. 1,709,822; Apr. 16.
- Griffith, Ethel L., Greenwood, Ind. Smoker's tray. Des. 77,828; Feb. 26.
- Griffith, Francis, Passaic, N. J., P. J. Birkmeyer and H. G. Life, Brooklyn, assignors to The Western Union Telegraph Company, New York, N. Y., Conveyer system. 1,738,427; Dec. 3.
- Griffith, Frank H., Wehrum, Pa. Plate lifter. 1,726,619; Sept. 3.
- Griffith, George G. (See Hilstad, John R., assignor.)
- Griffith, George G. (See Hilstad, J. R., and Canterbury, assignors.)
- Griffith, George G., et al. (See Hilstad, John R., assignor.)
- Griffith, Graves, San Francisco, Calif. Stereoscopic color-cinematographic apparatus. 1,705,760; Mar. 19.
- Griffith-Hope Company. (See Griffith, R. W., and Hope, assignors.)
- Griffith-Hope Company, et al. (See Shotwell, Frederic V., assignor.)
- Griffith, James B., Washington, D. C. Lens mounting. 1,736,119; Nov. 19.
- Griffith, Palmer W. (See Barsky, G., and Griffith.)
- Griffith, Patrick G., Walton-on-Thames, assignor to J. Payen Limited, Church Wharf, London, England. Gasket or washer. 1,715,356; June 4.
- Griffith, Raymond W., and S. N. Hope, assignors to Griffith-Hope Company, Milwaukee, Wis. Instrument light. 1,709,213; Apr. 16.
- Griffith, Raymond W., and S. N. Hope, assignors to Griffith-Hope Company, Milwaukee, Wis. Paper cabinet. 1,709,214; Apr. 16.
- Griffith, Winfred S., assignor to Graton & Knight Company, Worcester, Mass. Preparing leather belting for gluing or cementing. 1,741,106; Dec. 24.
- Griffith, Winfred S., assignor to Graton & Knight Company, Worcester, Mass. Leather-scratching machine. 1,741,107; Dec. 24.
- Griffiths, Harry A., Birmingham, and R. H. Griffiths, Sutton Coldfield, England. Feed mechanism for traversing work sheets. 1,719,366; July 2.
- Griffiths, Hugh, Buffalo, N. Y. Electrode holder. 1,732,441; Oct. 22.
- Griffiths, Richard H. (See Griffiths, Harry A. and R. H.)
- Griffiths, Richard T., Akron, Ohio. Overshoe. Des. 78,811; June 25.
- Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Gasket and attaching same. 1,705,454; Mar. 12.
- Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Packing gasket and making same. 1,705,455; Mar. 12.
- Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Making window guides. 1,708,059; Apr. 9.
- Griffiths, Walter W., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power installation. 1,703,064; Feb. 19.
- Griffiths, William J., et al. (See Lathrop, Asa, assignor.)
- Griffiths, William U., Philadelphia, Pa. Drain board. 1,718,231; June 25.
- Griffiths, William U., Philadelphia, Pa. Controlling the discharge of water into flush tanks. 1,737,233; Nov. 26.
- Grifon, Gaston, Paris, France. Carburetor. 1,702,433; Feb. 19.
- Grigg, Arthur. (See Rose, Henry W., assignor.)
- Grigg, Charles L., assignor to Howdy Company, St. Louis, Mo. Bottle. Des. 78,351; Apr. 23.
- Grigg, George R., San Jose, Calif. Carton. 1,704,739; Mar. 12.
- Grigg, George R., San Jose, Calif. Shipping case. 1,730,816; Oct. 8.
- Griggs, Theodore G., Elizabeth, N. J. Toy parachute. 1,713,432; May 14.
- Griggs, Thomas F. (See Cotter, T., and Griggs.)
- Grigsby, Bertram J., et al. (See Johnson, Otto, assignor.)
- Grigsby-Grunow Co. (See Burton, Frank C., assignor.)
- Grigsby-Grunow Company. (See Grunow, William C., assignor.)
- Grigsby, Leor A., assignor to Logan Co., Inc., Louisville, Ky. Ornamental protecting grille. 1,702,345; Feb. 19.
- Grigsby, Marion W., Chicago, Ill., assignor to D. C. Becker, trustee. Power meat and bone saw. 1,726,893; Sept. 3.
- Grill, Eugen, Spezialmaschinenfabrik. (See Brandegger, Willy, assignor.)
- Grim, Ernest N., Janesville, Wis. Partition for railway cars. 1,719,367; July 2.
- Grim, James F., Comstock, Nebr. Stanchion. 1,724,651; Aug. 13.
- Grim, Walter S. (See Grim, William A. and W. S.)
- Grim, William A. and W. S., Boyertown, Pa. Inner top fastener for burial-casket covers. 1,731,098; Oct. 8.
- Grim, William G. (See Pfeifer, John, assignor.)
- Grinditch, William H., Glenside, assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Radio receiver control. 1,718,138; June 18.
- Grinditch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery plate and making same. 1,718,139; June 18.
- Grinditch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Preparing batteries for service. 1,722,210; July 23.
- Grinditch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Electrolytic cell and solution therefor. 1,723,154; Aug. 6.
- Grinditch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Solution for electrolytic cells. 1,723,155; Aug. 6.
- Grimes, Charles P., Syracuse, N. Y. Attaching copper fins to cast-iron cylinders. 1,721,878; July 23.
- Grimes, Geo. W., Co., The. (See Pike, Thomas C., assignor.)
- Grimes, Homer, and H. B. Stover, Centralia, Ill. Veneer tile. 1,703,998; Mar. 5.
- Grimes, James H., Paducah, Ky. Sewing cabinet. 1,714,362; May 21.
- Grimes, Lester A., Montclair, assignor to Grimes Sprinkler Company, Inc., Newark, N. J. Retarding chamber. 1,717,773; June 18.
- Grimes Sprinkler Company. (See Grimes, Lester A., assignor.)



- Grimes, Thayer, New York, N. Y. Mask. 1,703,034; Feb. 19.
- Grimes, William F., South Pasadena, Calif. Measuring distance. 1,724,576; Aug. 13.
- Grimes, William F., Pasadena, Calif. Apparatus for measuring distance. 1,739,901; Dec. 17.
- Grimley, William, Smethwick, England. Pump or sprayer for horticultural purposes. 1,705,401; Mar. 12.
- Grimm, George F., Peoria, Ill. Skid. 1,734,373; Nov. 5.
- Grimm, George E., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle door. 1,708,616; Apr. 9.
- Grimm, George E., assignor to The Willys-Overland Company, Toledo, Ohio. Window regulator. 1,710,091; Apr. 23.
- Grimm, George E., assignor to The Willys-Overland Company, Toledo, Ohio. Body for automotive vehicles. 1,717,336; June 11.
- Grimm, Watson E., Concordia, Kans. Static eliminator for radioreceivers. 1,728,057; Sept. 10.
- Grimmel, Harry, Wiesdorf, and H. Clingenstein, Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New azo dyestuffs. 1,731,623; Oct. 15.
- Grimmel, Harry W. (See Clingenstein, H., and Grimmel.)
- Grimmer, George S. M., London, England. Pencil or like holder. 1,719,976; July 9.
- Grimmich, William, assignor to Emil J. Paidar Company, Chicago, Ill. Foot rest for chairs. 1,712,266; May 7.
- Grimmich, William. (See Emmert, J. R., and Grimmich.)
- Grimsdew, William. (See Fryer, Al, assignor.)
- Grimsley, William R., et al. (See Grafton, Howard T., assignor.)
- Grimwood, Arthur J., Stevenston, Scotland, assignor to Imperial Chemical Industries, Limited, London, England. Shell and the like. 1,709,721; Apr. 16.
- Griswold, Darwin G., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Method of and apparatus for coating metal articles. 1,739,482; Dec. 10.
- Griswold, William A. (See Teller, Jacob, assignor.)
- Grindahl, Gilman O., Belgrade, and H. T. Thompson, Staples, Minn. Hay sling. 1,722,329; July 30.
- Grindler, Francis J. (See Dozier, L. D. Green, and Grindler.)
- Grindrod, George, Oconomowoc, Wis. Sterilization of food products. 1,714,597; May 28.
- Grine, Paul G., Beaver, Pa. Track for roller-coaster type of amusement structures. 1,729,827; Oct. 1.
- Griner, George S., Cleveland, Ohio. Clothes rack. 1,732,162; Oct. 15.
- Gring, George W., Berkeley, Calif. Insect-poison feeder. 1,714,666; May 28.
- Grininger, John H., St. Paul, Minn. Window wedge. 1,734,483; Nov. 5.
- Grinnon, Richard M., Wampum, Pa. Roller skate. 1,733,059; Oct. 22.
- Grinstead, Frank, et al. (See Leyvraz, André, assignor.)
- Gripone, Paul E. H., Washington, D. C. Airfoil. 1,719,293; July 2.
- Grisby, Owen E., Park Ridge, assignor to Porcelain Tile Company, Chicago, Ill. Tiled construction. 1,698,091; Jan. 8.
- Griscom Russell Company, The. (See Brown, Stanley, assignor.)
- Griscom-Russell Company, The. (See Dewald, Edward A., assignor.)
- Griscom-Russell Company, The. (See Jones, Russell C., assignor.)
- Griscom, Samuel B. (See Wagner, C. F., Evans, and Griscom.)
- Grismer, Claude M., Cleveland, Ohio. Combined brush rest and wiper. 1,700,585; Jan. 29.
- Grisson, Joseph, Newark, N. J. Oil burner. 1,698,263; Jan. 8.
- Grisson, Joseph, New York, N. Y. Washboiler attachment. 1,737,284; Nov. 26.
- Grissinger, George G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,726,953; Sept. 3.
- Grisson, Francis L., and J. W. Garrett, El Paso, Tex. Parachute for flying machines. 1,731,491; Oct. 15.
- Grist, Charles J., Berkswell, assignor of four-fifths to C. W. St. J. Rowlandson, London, England. Apparatus for treating railway and tramway rails. 1,731,857; Oct. 15.
- Grist, Charles J., Berkswell, assignor of four-fifths to C. W. St. J. Rowlandson, London, England. Apparatus for the treatment of tools and other small steel or steel alloy articles. 1,731,858; Oct. 15.
- Griswold, Fred C., Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Feeding mechanism. 1,723,346; Aug. 6.
- Griswold, Roger W., Ashtabula, Ohio. Commercial package. 1,727,878; Sept. 10.
- Griswold Manufacturing Company, The. (See Anderson, Carl R., assignor.)
- Griswold, Robert G., Westfield, N. J., assignor to Doherty Research Company, New York, N. Y. Pressure-regulating, demand-limiting, and volumetric meter. 1,702,114; Feb. 12.
- Griswold, Thomas, jr., assignor to The Dow Chemical Company, Midland, Mich. Apparatus for chemical reaction on heated solid material. 1,705,614; Mar. 19.
- Griswold, Thomas, jr., assignor to The Dow Chemical Company, Midland, Mich. Chemical apparatus for reactions on heated solid material. 1,719,509; July 2.
- Griswold, Walter R., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,701,563; Feb. 12.
- Griswold, William A., Nashville, Tenn. Heater. Des. 78,812; June 25.
- Gritt, Frank A., Indianapolis, Ind. Sectional luminous animated outdoor billboard. 1,715,129; May 28.
- Gritzner, Silas A., Chicago, Ill. Building construction. 1,724,577; Aug. 13.
- Grivel, Henri, Guebwiller, France. Rubbing motion for drawing frames and the like. 1,722,141; July 23.
- Groak, Irwin D., Chicago, Ill. Cooking stove. 1,740,505; Dec. 24.
- Groat, William, et al. (See Owen, William H., assignor.)
- Grob, Hugo, Berlin, Germany. Device for regulating electric voltages. 1,700,040; Jan. 22.
- Grob, Hugo, Berlin, Germany. Compensating the forces in voltage regulators. 1,700,041; Jan. 22.
- Grob, Hugo, Berlin, Germany. Compensating the forces in voltage regulators. 1,700,042; Jan. 22.
- Groble Gas Regulator Co. (See Groble, Jacob C., assignor.)
- Groble Gas Regulator Company. (See Groble, J. C., Pollock, and Groble, assignors.)
- Groble, Jacob C., assignor to Groble Gas Regulator Co., Anderson, Ind. Automatic pressure regulator. 1,718,290; June 25.
- Groble, Jacob C., assignor to Groble Gas Regulator Company, Anderson, Ind. Seal for pressure regulators. 1,720,673; July 16.
- Groble, Jacob C., J. Pollock, and W. C. Groble, assignors to Gas Regulator Co., Anderson, Ind. Pressure regulator. 1,731,773; Oct. 15.
- Groble, Jacob C., J. Pollock, and W. C. Groble, assignors to Groble Gas Regulator Company, Anderson, Ind. Fluid-pressure regulator. 1,732,012; Oct. 15.
- Groble, William C. (See Groble, J. C., Pollock, and Groble.)
- Grodnitzky, Lasar. (See Fischer, H., and Grodnitzky.)
- Groehn, Otto J., assignor to Clayton & Lambert Mfg. Co., Detroit, Mich. Fire-pot construction. 1,701,180; Feb. 5.
- Groehn, Otto J., assignor to Hudson Motor Car Company, Detroit, Mich. Curling tool for automobile body construction. 1,703,618; Feb. 26.
- Groehn, Otto J., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Fastener-setting device. 1,725,577; Aug. 20.
- Groehn, Otto J., Grosse Pointe Park, and L. S. Lamb, Detroit, Mich., assignors to Hudson Motor Car Company. Shaping sheet metal. 1,708,615; Apr. 9.
- Groen, George, Everly, Iowa. Churn. 1,729,105; Sept. 24.
- Groene, William E. (See Strauss, W. O., and Groene.)
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Center-drive lathe. 1,700,721; Jan. 29.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Milling machine. 1,705,218; Mar. 12.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Chucking device for crank shafts. 1,723,347; Aug. 6.
- Groene, William F., assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Change-gear mechanism. 1,737,881; Dec. 3.
- Groenenstein, Philip J., East Cleveland, Ohio. Glare shield. 1,697,502; Jan. 1.
- Groeneveld, Yme B. F. J., Eindhoven, Netherlands, assignor to Radio Corporation of America. Amplifying transformer. 1,702,771; Feb. 19.
- Groff, Frazier, Bloomfield, N. J., and G. W. Miller, Chicago, Ill., assignors to Bakelite Corporation New York, N. Y. Phenolic resin and making same. 1,720,895; July 16.
- Groff, Howard M. (See Buch, Paul H., assignor.)
- Groff, Suttan H., Long Beach, Calif. Surgical instrument. 1,714,220; May 21.
- Groff, Suttan H., Long Beach, Calif. Diathermy knife. 1,735,271; Nov. 12.
- Grogan, Jacob C., Brooklyn, N. Y., assignor to Westinghouse Lamp Company. Apparatus for and method of aligning elements in sealed containers. 1,716,167; June 4.
- Groger, William R., El Segundo, Calif. Magic box. 1,728,606; Sept. 17.
- Grohek, Matt, Superior, Wis. Pipe coupling for steam and air pipes. 1,719,223; July 2.
- Grohens, Albert P., Marshall, Mich. Burner for roasters. 1,716,920; June 11.
- Grohens, Albert P., Marshall, Mich. Pivotal cooling car. 1,716,955; June 11.
- Grojean, John D., New York, N. Y. Resilient wheel. 1,720,040; July 9.
- Grojan Manufacturing Company, The. (See Groves, John F., assignor.)
- Grolla, Max A. (See Shaughnessy, Edward, assignor.)
- Gromeeko, John I. (See Imshenetsky, M. M., and Gromeeko.)
- Gronberg, Victor A. (See Anderson, G., and Gronberg.)
- Gronberg, Victor A. (See Card, E. J., and Gronberg.)
- Gron Dahl, Hans H. C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding apparatus. 1,702,050; Feb. 12.
- Gron Dahl, Hans, H. C., Chicago, Ill., assignor to Western Electric Company, New York, N. Y. Molding apparatus. 1,702,051; Feb. 12.
- Gron Dahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Philadelphia, Pa. Unidirectional-current-carrying device. 1,704,679; Mar. 5.



- Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,711,384; Apr. 30.
- Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,727,204; Sept. 3.
- Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Car retarder. 1,728,562; Sept. 17.
- Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,728,563; Sept. 17.
- Grondahl, Lars O., Pittsburgh, and P. N. Bossart, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 1,730,135; Oct. 1.
- Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical translating apparatus. 1,741,231; Dec. 31.
- Groner, Charles O., assignor of one-half to G. Totten, Canton, Ohio. Dispensing carton. 1,714,363; May 21.
- Groner, Charles S., Kirwin, Kans. Adjustable fan. 1,712,883; May 14.
- Groner, Walter T. (See Velzy, J. E., and Groner.)
- Groniger, Walter E., Cincinnati, Ohio, assignor to The Liberty Cherry & Fruit Co., Inc., Covington, Ky. Bottle. Des. 78,465; May 7.
- Gronlund, Christopher E. (See Augustin, E. J., and Gronlund.)
- Gronow, John A., Brookfield, Ill. Combination stepladder. 1,711,888; May 7.
- Gros, Gustave A., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Forming composite articles. 1,706,730; Mar. 26.
- Grosberg, William, and G. Surprenant, Schenectady, N. Y. Attachment for air-escape valves. 1,733,873; Oct. 29.
- Groschlose, William D. (See Delb, F. C., and Groschlose.)
- Grossius, Fred, Detroit, Mich. Antiglare device for headlights. 1,703,668; Feb. 26.
- Grossjean, James E., Lima, Ohio. Shoe sole. Des. 79,927; Nov. 19.
- Grosnickle, Henry W., Dayton, Ohio. Clinker fork. 1,736,196; Nov. 19.
- Gross, Albert E., Palatka, Fla. Handcuff. 1,719,698; July 2.
- Gross, Arthur R., assignor to Gross Metal Products Company, St. Paul, Minn. Welding apparatus. 1,714,867; May 28.
- Gross, Arthur R., assignor to Gross Metal Products Company, St. Paul, Minn. Joint connection for sheet-metal units. 1,728,964; Sept. 24.
- Gross, Arthur R., assignor, by mesne assignments, to Trussbilt Steel Doors, Inc., St. Paul, Minn. Hollow sheet-metal unit and producing the same. 1,741,932; Dec. 31.
- Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 78,885; July 2.
- Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 79,000; July 16.
- Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 79,463; Sept. 24.
- Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 79,464; Sept. 24.
- Gross, Benjamin, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 79,465; Sept. 24.
- Gross, Benjamin & Edward J., Co. (See Gross, Benjamin, assignor.)
- Gross, Benjamin & Edward J., Co. (See Gross, Edward J., assignor.)
- Gross, Carl G., Mount Vernon, assignor to Halliwell-Shelton Electric Corporation, New York, N. Y. Casing for an exercising machine. Des. 78,389; Apr. 30.
- Gross, Cecil, Elkins, W. Va. Cable-operating machine. 1,708,880; Apr. 9.
- Gross, Charles O., Springfield, Ill. Safety candle. 1,710,418; Apr. 23.
- Gross, Edward G., Montgomery, Ala. Fluid-pressure control for cylinder cocks. 1,707,264; Apr. 2.
- Gross, Edward J., New Rochelle, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or similar article. Des. 78,352; Apr. 23.
- Gross, Edward J., New Rochelle, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or similar article. Des. 80,009; Nov. 26.
- Gross, Elmer J., assignor to Chicago Gymnasium Equipment Company, Chicago, Ill. Backboard. 1,736,879; Nov. 26.
- Gross, Emil, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Nozzle. 1,706,355; Mar. 19.
- Gross, Emil, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine. 1,728,898; Sept. 17.
- Gross, Emil, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Bearing. 1,740,084; Dec. 17.
- Gross, Harry E., Dormont, and O. M. Tishlarich, Bellevue, assignors to A. M. Byers Company, Pittsburgh, Pa. Manufacture of butt-weld pipes. 1,726,347; Aug. 27.
- Gross, Henry J., Chicago, Ill. Andiron. Des. 79,136; Aug. 6.
- Gross, Henry R., Chicago, Ill. Spotlight. 1,702,772; Feb. 19.
- Gross, Ignatz, Chicago, Ill. Tongue scraper. 1,701,616; Feb. 12.
- Gross, Joseph, Pittsburgh, assignor of one-half to J. H. Smith, Philadelphia, Pa. Concrete floor construction. 1,705,916; Mar. 19.
- Gross, Louis, Cleveland, Ohio. Electrical connector. 1,729,613; Oct. 1.
- Gross, Miriam, Milwaukee, Wis. Knitted fabric. Des. 77,481; Jan. 15.
- Gross, Miriam, assignor to Miriam Gross Company, Milwaukee, Wis. Knitted dress. Des. 78,570; May 21.
- Gross, Miriam, Company. (See Gross, Miriam, assignor.)
- Gross Metal Products Company. (See Gross, Arthur R., assignor.)
- Gross Metal Products Company. (See Gross, William J., assignor.)
- Gross, Nathan, New York, N. Y. Garment. 1,721,074; July 16.
- Gross, William J., assignor to Gross Metal Products Company, St. Paul, Minn. Metallic door frame. 1,731,459; Oct. 15.
- Grossbard, Barnett, San Francisco, Calif. Adjustable transmission appliance. 1,714,775; May 28.
- Grosser, Hans, Buenos Aires, Argentina, assignor to G. E. Alvarado, New York, N. Y. Lacing for shoes and other articles. 1,740,506; Dec. 24.
- Grosser, Steff, Mor-Ostrava, Czechoslovakia. Comb, containing sprayer. 1,714,556; May 28.
- Grossgold, Isidore. (See Lowy, Louis, assignor.)
- Grossinger, Simon, et al. (See Stair, Frank H., assignor.)
- Grossjean, James E., Lima, Ohio. Shoe sole. Des. 80,223; Dec. 31.
- Grosskopf, Richard, Dresden, Germany. Rotary printing press. 1,714,089; May 21.
- Grosskinsky, Otto. (See Schmidt, O., Grosskinsky, and Niemann.)
- Grosskopf, William, assignor of one-fourth to W. N. Steele, New York, one-fourth to G. Martin, East Elmhurst, and one-fourth to W. Tondl, Flushing, N. Y. Band-saw sharpener. 1,717,206; June 11.
- Grossler, Friedrich, Hermsdorf (Biesengebirge), assignor to Linke-Hofmann-Werke A. G. Abteilung Fullnerwerk, Warmbrunn Schlesien, Germany. Wood-pulp-grinding plant and operating the same. 1,721,863; July 23.
- Grossman, Harold. (See Goldsmith, B. B., and Grossman.)
- Grossman, Harold, Caldwell, N. J. Subdividing solid and semisolid substances. 1,711,482; Apr. 30.
- Grossman, Jacob, Maspeth, N. Y. Box. 1,731,414; Oct. 15.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Lighting-fixture part or analogous article. Des. 77,829; Feb. 26.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Body for lamps or analogous articles. Des. 79,803; Nov. 5.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Body for lamps or analogous articles. Des. 79,804; Nov. 5.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Body for lamps or analogous articles. Des. 79,805; Nov. 5.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Body for lamps or analogous articles. Des. 79,806; Nov. 5.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Body for lamps or analogous articles. Des. 79,807; Nov. 5.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Body for lamps or analogous articles. Des. 79,808; Nov. 5.
- Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Base for lamps or analogous articles. Des. 79,809; Nov. 5.
- Grossman, Louis A., New York, N. Y. Dispensing device for wrapping material. 1,704,287; Mar. 5.
- Grossman, Lyman M., Buffalo, N. Y. Bottle. Des. 77,407; Jan. 8.
- Grossman, Mollie L., and J. N. Lowe, New York, N. Y. Hat bag. 1,732,842; Oct. 22.
- Grossman, Morris, New York, N. Y. Manufacturing synthetic mineral fibers. 1,730,609; Oct. 8.
- Grossman, Samuel, et al. (See Grossman, Samuel, assignor.)
- Grossman, Samuel, assignor to D. Klebanoff and S. Grossman, copartners doing business as Klebanoff and Grossman, New York, N. Y. Finger ring. Des. 79,883; Nov. 12.
- Grossmann, Marcus A. (See Williams D., and Grossmann.)
- Grossweischede, Julius, and G. Reichenbecher, Mulheim-on-the-Ruhr, assignors to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Collapsible draw mandrel. 1,713,962; May 21.
- Grosvenor, William M., and V. P. Gershon, New York, N. Y.; said Gershon assignor to said Grosvenor. Manufacture of alloys. 1,716,050; June 4.
- Groth, Herman A., Oak Park, assignor to Wm. H. Rankin Company, Chicago, Ill. Bottle or similar container. Des. 79,074; July 30.
- Grothues, Anton. (See Davis, F., and Grothues.)
- Grotues, Carl C., Chicago, Ill. Machine for rolling rims and other annular objects. 1,720,833; July 16.



- Grotnes, Carl C., Chicago, Ill. Metal-working machine. 1,722,418; July 30.
- Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Winding machine. 1,699,841; Jan. 22.
- Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Socket. 1,726,179; Aug. 27.
- Groupe, Andrew V. (See Brenizer, Orson W., assignor.)
- Grove, John L. (See Cressler, Edward P., assignor.)
- Grover, Albert D., New York, N. Y. Tuning peg for stringed musical instruments. 1,721,904; July 25.
- Grover, Albert D., New York, and L. H. Bertram, Long Island City, N. Y. Tailpiece. 1,721,153; July 16.
- Grover, Albert D., Long Island City, N. Y. Tailpiece for stringed musical instruments. 1,724,278; Aug. 13.
- Grover, George, East Norwalk, Conn. Machine for delivering fur to hat formers. 1,731,305; Oct. 15.
- Grover, William G., Weed, Calif. Two-circuit master electrotrol indicating snap switch. 1,714,020; May 21.
- Grover, William H., Maumee, and C. E. Merritt and W. S. Pooley, Toledo, Ohio. Signal means for elevators. 1,731,975; Oct. 15.
- Groves, James G. (See Nelson, Charles I., assignor.)
- Groves, John F., assignor to The Grolan Manufacturing Company, Dayton, Ohio. Indicator. 1,710,872; Apr. 30.
- Groves, Ray H., assignor to S. C. Williams, Portland, Oreg. Picture-block toy. 1,702,505; Feb. 19.
- Groves, Thomas S., Leechburg, Pa. Roll polisher. 1,742,070; Dec. 31.
- Groves, William H. (See Bellamy, H. T., and Groves.)
- Grozinger, Fred. (See McDowell, George, assignor.)
- Grubb, Charles H., Baraboo, Wis. Stanchion sure stop. 1,729,227; Dec. 10.
- Grubb, Harry B., Forest Hills, N. Y. Lip-stick holder. Des. 78,886; July 2.
- Grubb, Herbert H., Baraboo, Wis. Grease collar. 1,715,285; May 28.
- Grubb, Wesley A., Tilden, Nebr. Valve lifter. 1,709,528; Apr. 16.
- Grube, Jesse R., North Bergen, and L. F. Munsch, Secaucus, N. J. Slack adjuster for brakes. 1,735,752; Nov. 12.
- Gruber, Edward, assignor to E. E. Allnye, Cleveland, Ohio. Mercury trap. 1,724,279; Aug. 13.
- Gruber, Morris M., New York, N. Y. Acoustical mechanism. 1,705,615; Mar. 19.
- Gruber, Morris M., New York, N. Y., assignor to Sonora Phonograph Company, Inc. Sound-reproducing apparatus. 1,718,351; June 25.
- Gruber, William R., New York, N. Y. Container-rim protector. 1,716,725; June 11.
- Gruber, Wolfgang, Burghausen, assignor to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, Munich, Germany. Production of acetylcellulose soluble in chloroform. 1,711,314; Apr. 30.
- Gruber, Wolfgang, Burghausen, Oberbayern, assignor to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, Munich, Germany. Preparing acetone-soluble, high-viscosity cellulose acetate. 1,723,614; Aug. 6.
- Grubman, Leo J., Belle Harbor, N. Y. Making doll heads. 1,704,829; Mar. 12.
- Grubman, Leo J., New York, N. Y., assignor to Voices Incorporated, New York, N. J. Sound device. 1,704,536; Mar. 5.
- Grubman, Leo J., Belle Harbor, N. Y. Sound-producing device or voice for dolls and the like. 1,727,821; Sept. 10.
- Gruebler, Felix, Zurich, Switzerland. Working combustion engines at variable elevations. 1,720,414; July 9.
- Gruen, Frederick G., assignor to The Gruen National Watch Case Company, Cincinnati, Ohio. Wrist-watch case. Des. 77,764; Feb. 19.
- Gruen, Frederick G., assignor to The Gruen Watch Company, Cincinnati, Ohio. Watch dial. Des. 79,292; Aug. 27.
- Gruen, Frederick G., assignor to The Gruen Watch Company, Cincinnati, Ohio. Watch dial. Des. 79,293; Aug. 27.
- Gruen National Watch Case Company, The. (See Bieser, Carl W., assignor.)
- Gruen National Watch Case Company, The. (See Gruen, Frederick G., assignor.)
- Gruen Watch Company, The. (See Favre, Marc, assignor.)
- Gruen Watch Company, The. (See Gruen, Frederick G., assignor.)
- Gruender, Oscar C., Chicago, Ill. Screen. 1,722,792; July 30.
- Gruendler, William P., University City, Mo. Adjustable cage for crushers. 1,725,135; Aug. 20.
- Gruenewald, Eugene J., and F. F. Chandler, assignors to Ross Gear & Tool Company, La Fayette, Ind. Control-lever assembly for steering gears. 1,702,826; Feb. 19.
- Grueter, William B. (See Langill, R. E., and Grueter.)
- Grueter, William B., assignor to The Prescott Company, Menominee, Mich. Gang edger. 1,704,970; Mar. 12.
- Grueter, William B., assignor to The Prescott Company, Menominee, Mich. Tapering mechanism for sawmill knees. 1,725,861; Aug. 27.
- Gruetter, John R., assignor, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio. Bottle-cleaning apparatus. 1,734,463; Nov. 5.
- Gruggen, Arthur L., Moosomin, Saskatchewan, Canada. Shocking machine. 1,713,381; May 14.
- Grulich, Dezsö R., assignor to The Corticelli Silk Company, New York, N. Y. Textile fabric. Des. 78,623; May 28.
- Grumpelt, Oskar F. A. E., assignor to Elektrotrennschienen Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Method and rotating disk for cutting metals by the aid of an electric current. 1,701,919; Feb. 12.
- Grünberg, Josef, Berlin, Germany. Press for the production of artistic prints and impressions. 1,740,399; Dec. 17.
- Grünberg, Josef, Berlin, Germany. Press for the production of artistic prints and embossings. 1,794,567; Mar. 5.
- Grundmark, August A., Minneapolis, Minn. Tire spreader. 1,713,488; May 14.
- Grune, Max, Pirmasens, Germany. Method of and machine for manufacturing fillers for shoes and boots. 1,724,473; Aug. 13.
- Grünig, Albert, Breslau, Germany. Cutting implement. 1,708,016; Apr. 9.
- Grunow, William C., assignor to Grigsby-Grunow Company, Chicago, Ill. Electrical translating unit. 1,702,159; Feb. 12.
- Grunow, William C., et al. (See Johnson, Otto, assignor.)
- Grunwald, Albert C., River Forest, assignor to Precision Metal Workers, Chicago, Ill. Motor-vehicle temperature-indicating device. 1,712,208; May 7.
- Grünwald, Arthur D., Drangstedt, Germany. Table-silver-washing machine. 1,710,357; Apr. 23.
- Grunwaldt, Frank E., Seattle, Wash. Forced-draft fan. 1,736,311; Nov. 19.
- Grupe, William F., Lyndhurst, N. J., assignor to Boucher Cork Company, Inc., New York, N. Y. Forming cork disks and gaskets and product of the same. 1,702,600; Feb. 19.
- Grupe, William F., Lyndhurst, N. J., assignor to Peerless Roll Leaf Co., Inc., New York, N. Y. Transfer metallic media. 1,710,309; Apr. 23.
- Grupe, William F., Lyndhurst, N. J., assignor to Boucher Cork Company, New York, N. Y. Forming cork facings for laundry rolls. 1,718,647; June 25.
- Grupe, William F., Lyndhurst, N. J., assignor to Boucher Cork Company, New York, N. Y. Cork separator for storage batteries. 1,726,223; Aug. 27.
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Cigarette-making machine. 1,705,012; Mar. 12.
- Grupe, William F., Rutherford, N. J. Production of electrolytically-deposited gold in film or leaf form. 1,731,415; Oct. 15.
- Grushlaw, George, assignor to himself and J. Sichel, Philadelphia, Pa., copartners trading as Grushlaw & Sichel. Sweater. 1,701,920; Feb. 12.
- Grushlaw & Sichel. (See Grushlaw, George.)
- Gruss, Francis J., et al. (See Gruss, Francis K., assignor.)
- Gruss, Francis J., et al., trustees. (See Gruss, Francis K., assignor.)
- Gruss, Francis K., assignor of one-third to F. J. Gruss, Redwood City, one-third to R. L. Gruss, San Francisco, and one-third to himself, L. Abadie, Berkeley, and F. J. Gruss, Redwood City, Calif., trustees. Vacuum brake. 1,714,868; May 28.
- Grüss, Heinz, Berlin-Staaken, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Using, an apparatus for the determination of the amount of carbonic acid contained in flue gases. 1,701,181; Feb. 5.
- Gruss, Raymond L., San Francisco, Calif. Air spring. 1,709,313; Apr. 16.
- Gruss, Raymond L., et al. (See Gruss, Francis K., assignor.)
- Gruttmann, Franz, Cologne, Germany. Registering stamp. 728,826; Sept. 17.
- Gruver, Joseph H., Baltimore County, Md. Closure for containers. 1,741,108; Dec. 24.
- Gschwind, Leon, Youngstown, Ohio. Manhole, valve box, and the like. 1,712,267; May 7.
- Gschwindt, Adam. (See Andrews, Alfred W., assignor.)
- Gstalter, Paul A., assignor to Radiant Steel Products Company, Williamsport, Pa. Register inclosure. Des. 77,598; Jan. 29.
- Guarantee Liquid Measure Company. (See Parker, Walter H., assignor.)
- Guardian Metals Company. (See Coles, H. L., and Donaldson, assignors.)
- Guardian Metals Company. (See Donaldson, Joseph G., assignor.)
- Guardian Metals Company. (See Donaldson, J. G., and Coles, assignors.)
- Guardian Trust Company, The. (See Napier, George R., assignor.)
- Guardian Trust Company, The, trustee. (See Day, William R., assignor.)
- Guardian Trust Company of Detroit, trustee. (See Christman, John M., assignor.)
- Guardino, Stephen, Brooklyn, N. Y. Removing sediment from the tanks of oil-burning ships and tankers. 1,722,211; July 23.
- Guarnieri, Giuseppe, New York, N. Y., assignor of one-sixth to A. Ragazzo. Automatic railroad gate. 1,710,587; Apr. 23.
- Guastello, Alfonso G., Brooklyn, N. Y. Automatic station indicator. 1,738,241; Dec. 3.



- Guay, Joseph A., Lynn, assignor to C. Haigh, Winthrop, Mass. Clutch plate. 1,700,492; Jan. 29.
- Guay, Joseph A., Lynn, assignor to C. Haigh, Winthrop, Mass. Friction clutch. 1,700,493; Jan. 29.
- Guay, Joseph A., Lynn, assignor to C. Haigh, Winthrop, Mass. Friction clutch. 1,700,932; Feb. 5.
- Gubelmann, Ivan. (See Tinker, J. M., and Gubelmann.)
- Gubelmann, Ivan. (See Weiland, H. J., and Gubelmann.)
- Gubelmann, Ivan, H. J. Weiland, and O. Stallmann, South Milwaukee, Wis., assignors to The Newport Company. 2', 4'-dichloro-ortho-benzoyl-benzoic acid and making the same. 1,711,144; Apr. 30.
- Gubelmann, Ivan, H. J. Weiland, and O. Stallmann, South Milwaukee, Wis., assignors to The Newport Company. 3'-nitro-4', 6'-dichloro-ortho-benzoyl-benzoic acid and making the same. 1,711,145; Apr. 30.
- Gubelmann, Ivan, H. J. Weiland, and O. Stallmann, South Milwaukee, Wis., assignors to The Newport Company. 3'-amino-4', 6'-dichloro-ortho-benzoyl-benzoic acid and making the same. 1,711,146; Apr. 30.
- Gubelmann, Ivan, and J. M. Tinker, South Milwaukee, signors to The Newport Company, Carrollville, Wis. Preparing alpha naphthylamine sulphonic acids. 1,728,607; Sept. 17.
- Guénee, Albert C. J., Villemombe, France. Electromagnetic railroad-switch operating device. 1,735,753; Nov. 12.
- Guenther, Alfred. (See Thaus, A., and Guenther.)
- Guenther, Alfred, Cologne-Riehl, A. Thaus, Cologne-Deutz, and G. Mauthe, Cologne-Holweide, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Solution for dyeing purposes. 1,709,976; Apr. 23.
- Guenther, George A., Buffalo, N. Y. Heating apparatus. 1,716,921; June 11.
- Guenther, Raymond. (See Inglis, A. H., and Guenther.)
- Guenther, Raymond, Paterson, N. J., assignor to American Telephone and Telegraph Company. Buckle. 1,718,291; June 25.
- Gueria, John B., Chicago, Ill. Battery charger. 1,733,874; Oct. 29.
- Guérin, Emile, Paris, France. Stopper for perfume bottles and other containers. 1,697,725; Jan. 1.
- Guérin, Emile, Paris, France. Film camera. 1,707,980; Apr. 9.
- Guerlain Perfumery Corporation of New York. (See Guerlain, Raymond, assignor.)
- Guerlain, Pierre, Paris, France. Bottle stopper. 1,724,578; Aug. 13.
- Guerlain, Raymond, assignor to Guerlain Perfumery Corporation of New York, New York, N. Y. Lipstick container. Des. 79,328; Sept. 3.
- Guernsey, Charles O., Philadelphia, Pa. Passenger-vehicle body. 1,710,616; Apr. 23.
- Guernsey, John E., Indianapolis, Ind. Phonograph record. 1,728,932; Sept. 24.
- Guerra, Angel, Mexico City, Mexico. Current limiting and regulating apparatus. 1,701,774; Feb. 12.
- Guert, Benjamin T., Abilene, Tex. Sugar container. 1,708,130; Apr. 9.
- Guertin, George G., St. Paul, Minn. Shingle roof and clip. 1,730,653; Oct. 8.
- Guertler, Johannes. (See Kircheisen, T., and Guertler.)
- Guest, Andrew Regina, Saskatchewan, Canada. Swivel connection. 1,712,666; May 14.
- Guest, Benjamin F., South Bethlehem, assignor to Stokes and Smith Company, Philadelphia, Pa. Sheet-feeding apparatus. 1,698,400; Jan. 8.
- Guest, John S., Los Angeles, Calif. Combined waffle iron and cooking apparatus. 1,729,662; Oct. 1.
- Guest Neckwear Company. (See Field, Arthur M., assignor.)
- Guest, Ward E., Chicago, Ill. Electric heater. 1,730,203; Oct. 1.
- Guett, Monroe, assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Spring for electric snap switches. 1,710,576; Apr. 23.
- Guettler, Herbert W., Chicago, Ill. Log-barking apparatus. 1,700,220; Jan. 29.
- Guetzow, Charles, San Benito, Tex. Cooking utensil. 1,717,971; June 18.
- Gueux, Joseph J. M., Ivry, France. Mechanism for controlling liquid dispensers. 1,720,597; July 9.
- Guglielmo, Joseph. (See Vollbrecht, P., and Guglielmo.)
- Guhl, Martin, Hamburg, Germany. Needle guard for sewing machines. 1,740,553; Dec. 24.
- Guiberson Corporation, The. (See Bell, Ivan C., assignor.)
- Guiberson Corporation, The. (See Crickmer, Charles S., assignor.)
- Guiberson Corporation, The. (See Crowell, Erd V., assignor.)
- Guiberson Corporation, The. (See Smith, Nelson K., assignor.)
- Guiberson, J. W., et al. (See Rosenthal, C., and Armistead, assignors.)
- Guidarelli, Benjamin J., Chicago, Ill. Nut-cracking machine. 1,713,600; May 21.
- Guide Motor Lamp Manufacturing Company, The. (See Michel, Clarence A., assignor.)
- Guidi, Alfredo, Genoa, Italy. Apparatus for filling or charging containers with semisolid material. 1,700,405; Jan. 29.
- Guido, Marco, North Plymouth, Mass. Shoe press. 1,710,162; Apr. 23.
- Guignard, August, Hood River, Oreg. Machine for sterilizing and washing fruit. 1,708,364; Apr. 9.
- Guignard, August, A. Bosse, and J. Guignard, Hood River, Oreg. Apparatus for treatment of deciduous fruit. 1,707,610; Apr. 2.
- Guignard, John. (See Guignard, A., Bosse, and Guignard.)
- Guignon, Emile S., jr., Kansas City, Mo. Shelf. 1,727,032; Sept. 3.
- Guihen, Joseph P., Kansas City, Mo. Clothesline prop. 1,735,200; Nov. 12.
- Guild, Lawrence B. (See Barrett, Elmer L., assignor.)
- Guilford, Edward H., Darwin, assignor to The Radiore Company, Los Angeles, Calif. Locating underground conductive bodies. 1,718,352; June 25.
- Guillemin-Tarayre, Jean, Villemombe, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,720,249; July 9.
- Gillet, Albert M., Charlotte, N. C. Supporting device for welding flyers. 1,722,212; July 23.
- Gillet, Amedée V. J., Paris, France. Stroboscope. 1,705,446; Mar. 12.
- Guinard, Paul A., Paris, France. Rotary piston pump or the like. 1,724,084; Aug. 13.
- Guindon, William D., Midvale, N. J. Circular-saw and tooth construction. 1,708,131; Apr. 9.
- Guinn, Edward G., Dickson City, Pa. Boltless fishplate and joint construction. 1,716,226; June 4.
- Guinn, Samuel E., Johnson City, Tenn. Cigar lighter. Des. 78,749; June 18.
- Guinot, Emile, Paris, France. Protecting apparatus for presses and the like. 1,728,994; Sept. 24.
- Guinot, Henri M. (See Ricard, E., and Guinot.)
- Guinzburg, Victor, assignor to I. B. Kleintert Rubber Company, New York, N. Y. Catamenial appliance. 1,734,464; Nov. 5.
- Guion, Charles P., and C. J. Albert, New Orleans, La. Toy. 1,728,058; Sept. 10.
- Guise, William L. (See Puccini, J. V., and Guise.)
- Guitschula, André, Oakland, assignor to Eames Company, San Francisco, Calif. Caster-wheel brake. 1,733,536; Oct. 29.
- Gulbransen, Axel G., assignor to Gulbransen Company, Chicago, Ill. Player piano. 1,708,502; Apr. 9.
- Gulbransen Company. (See Gulbransen, Axel G., assignor.)
- Gulbransen, Lars, Mason City, Iowa. Mail-delivery system. 1,733,894; Dec. 10.
- Gulf Coast Machine & Supply Company. (See Brauer, Walter, assignor.)
- Gulf Oil Burner Company. (See Braybrooks, William M., assignor.)
- Gulf Refining Company. (See Henderson, H., and Glasgow, assignors.)
- Gulf Refining Company. (See Peck, Fred G., assignor.)
- Gulf Refining Company. (See Prichard, G. L., and Henderson, assignors.)
- Gulick, Edward J., Elkhart, Ind. Manufacture of musical-instrument bells. 1,724,280; Aug. 13.
- Gulick, Edward J., Elkhart, Ind., assignor to Packard Motor Car Company, Detroit, Mich. Steering-rod connection. 1,704,740; Mar. 12.
- Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Tuning device for wind musical instruments. 1,736,880; Nov. 26.
- Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Horn-reinforcing means. 1,739,791; Dec. 17.
- Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Mouthpiece for musical instruments. 1,740,013; Dec. 17.
- Gulberg, George A., Holden, Mass. Snow-removing machine. 1,703,619; Feb. 26.
- Gulborg, John S., assignor to Alemite Die-Casting & Mfg. Co., Chicago, Ill. Hand truck. 1,719,763; July 2.
- Gulborg, John S., assignor to Alemite Die Casting and Manufacturing Company, Chicago, Ill. Die-casting machine. 1,719,764; July 2.
- Gulborg, John S., and C. S. Ongman, Chicago, Ill. House heater. 1,706,879; Mar. 26.
- Gullett Gin Company. (See Wallace, Jeffrey J., assignor.)
- Gullicksen, Spencer T., Chicago, Ill., assignor to J. H. Bunnell & Company, New York, N. Y. Ticker stand or similar article. Des. 78,390; Apr. 30.
- Gullickson, Arthur N., Cushing, Wis. Cream-cooling device. 1,733,300; Oct. 29.
- Gulliford, Nicholas L., assignor to Gregory & Reed Company, Lynn, Mass. Machine for turning wood heels. 1,704,319; Mar. 5.
- Gulliford, Nicholas L., Peabody, Mass., assignor to Gregory & Reed Company, Boston, Mass. Machine for use in making wood heels. 1,719,804; July 2.
- Gulliford, Nicholas L., assignor to Gregory & Reed Company, Lynn, Mass. Machine for shaping heels. 1,725,578; Aug. 20.
- Gulion, Elmer E., Kokomo, Ind. Sheet-metal pipe. 1,706,525; Mar. 26.
- Gullong, Jacob, South Hadley Falls, Mass. Automatic signaling apparatus. 1,707,909; Apr. 2.
- Gullung, Paul, St. Etienne du Rouvray, France. Card-stopping device. 1,727,285; Sept. 3.
- Gumaer, Pierre L., Houston, Tex., assignor to The Texas Company, New York, N. Y. Barrel skid. 1,733,662; Oct. 29.
- Gumm, Abbie. (See Lynch, G. B., Carroll, and Gumm.)
- Gump, B. F., Co. (See Woodhead, Horace G., assignor.)
- Gump, Leonard B., Gary, Ind. Fastening device. 1,725,266; Aug. 20.



- Gump, William, Newark, N. J., assignor of forty per cent to J. C. Dehls and forty per cent to L. Stein. Cellulose acetate composition. 1,740,854; Dec. 24.
- Gumport, Leonard A., New York, N. Y. Buckle for adjustable neckties. 1,712,209; May 7.
- Gumpper, Harold D., Detroit, Mich. Electric-power-generating unit. 1,723,851; Aug. 6.
- Gundel, Franz, Jersey City, N. J. Collapsible umbrella frame. 1,706,922; Mar. 26.
- Gunderman, Lester S., Pittsburgh, Pa. Toy. 1,701,974; Feb. 12.
- Gunderman, Lester S., Pittsburgh, Pa. Gravity toy or game. 1,739,719; Dec. 17.
- Gundersen, Robert W., New Bedford, and M. F. Krebs, South Dartmouth, Mass. Throttle-controlling means. 1,712,918; May 14.
- Gunderson, George G., assignor to French Battery Company, Madison, Wis. Carbon-capping method and device. 1,706,155; Mar. 19.
- Gunderson, Joseph F., Portland, Oreg. Sack holder. 1,714,308; May 21.
- Gundlach, George H., Brooklyn, N. Y. Inlet pipe for boilers, tanks, and the like. 1,716,692; June 11.
- Gunn, Charles B., and A. J. Dohogne, Shawnee, Okla. Demountable rim. 1,702,601; Feb. 19.
- Gunn, Charles H., San Francisco, Calif. Safety appliance for aeroplanes. 1,738,001; Dec. 3.
- Gunn, Fred M., El Paso, and W. F. Gunn, Fort Worth, Tex. Measuring conveyor. 1,734,671; Nov. 5.
- Gunn, Fred W., Boston, Mass. Hose clamp. 1,700,043; Jan. 22.
- Gunn Furniture Company, The. (See Richards, James A., assignor.)
- Gunn, Robert A. (See Hines, Edward A., assignor.)
- Gunn, Robert W. (See Gray, J. L., Gunn, and Thompson.)
- Gunn, Robert W. (See Reynolds, J. E., Lloyd, and Gunn.)
- Gunn, Ross, Washington, D. C. Device for indicating small changes of capacity. 1,701,975; Feb. 12.
- Gunn, Ross, New Haven, Conn. Directive transmission of energy. 1,730,071; Oct. 1.
- Gunn, Thomas M., Brooklyn, N. Y., assignor of one-sixth to G. Crosby, Glen Ridge, N. J. Lubricating device. 1,701,154; Feb. 5.
- Gunn, Willis F. (See Gunn, Fred M. and W. F.)
- Gunnell, Frank I., Los Angeles, Calif. Sanitary refuse container. 1,724,579; Aug. 13.
- Gunning, William, Easton, Pa., assignor to R. & H. Simon Co. Let-off mechanism for looms. 1,698,497; Jan. 8.
- Gunning, William A. (See Maynard, A. E., and Gunning.)
- Gunnison, Foster, Bronxville, N. Y., assignor to Cox, Nostrand & Gunnison, Incorporated, Brooklyn, N. Y. Modernistic indirect electric lighting fixture. Des. 73,750; June 18.
- Gunnison, John H., Madison, Wis. Grader and scarifier. 1,741,933; Dec. 31.
- Gunter, James E., Baltimore, Md., assignor to James E. Gunter Corporation. Container. 1,713,224; May 14.
- Gunter, James E., Baltimore, Md., assignor to James E. Gunter Corporation. Container. 1,718,202; June 18.
- Gunter, James E., Baltimore, Md. Container. 1,734,484; Nov. 5.
- Gunter, James E., Corporation. (See Gunter, James E., assignor.)
- Gunter, Newton C., Pueblo, Colo. Saliva ejector. 1,698,331; Jan. 8.
- Gunthel, Alfred B., Sea Cliff, N. Y. Goblet or similar article. Des. 77,952; Mar. 12.
- Gunthel, Alfred B., Sea Cliff, N. Y. Goblet or similar article. Des. 79,616; Oct. 1.
- Günther, Fritz, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Manufacture of quinine derivatives. 1,735,432; Nov. 12.
- Günther, Fritz, and J. Hetzer, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of alkylated aromatic sulphonic acids. 1,737,792; Dec. 3.
- Günther, Fritz, and J. Nüsslein, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Soap preparation. 1,730,037; Oct. 1.
- Günther, William H., San Francisco, Calif. Golf-bag support. 1,738,242; Dec. 3.
- Güntzel, Richard, Saalfeld-Saale, assignor to the firm Schiefelwerke Ausdauer Aktiengesellschaft, Probstzella, Thuringia, Germany. Producing a viscous phenol condensation product. 1,711,411; Apr. 30.
- Günzler, Heinrich, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of alkali-metal salts of halogenated amides of aromatic sulphonic acids. 1,699,888; Jan. 22.
- Gurden, Frank S., Cedar Grove, La. Electrical gate. 1,700,933; Feb. 5.
- Gurevich, Morris S., New York, and L. J. Zahn, Long Island City, N. Y. Display tower. 1,711,528; May 7.
- Gurganion, Ernest B., Rochester, Minn. Well-drilling rig. 1,719,765; July 2.
- Gurian, Samuel, Yonkers, N. Y. Device for assembling metal grids. 1,709,128; Apr. 16.
- Gurian, Samuel, Yonkers, N. Y. Device for assembling metal grids. 1,734,435; Nov. 5.
- Gurley, James M., Port Worth, Tex. Automatically-operated sliding forms for concrete construction. 1,730,727; Oct. 8.
- Gurley, John W., Indianapolis, Ind. Pump. 1,722,289; July 30.
- Gurley, John W., assignor of one-half to H. Taylor, Indianapolis, Ind. Fluid-pressure pump. 1,697,181; Jan. 1.
- Gurley, John W., assignor of one-half to H. Taylor, Indianapolis, Ind. Fluid-pressure pump. 1,731,774; Oct. 15.
- Gurley, W. & L. E. (See Arms, Edward W., assignor.)
- Gurley, W. & L. E. (See Egly, Willard L., assignor.)
- Gurnea, Andrew C., Chicago, Ill. Butcher's block. 1,734,853; Nov. 5.
- Gurney, Albert J., assignor to The American Mine Door Co., Canton, Ohio. Relay. 1,705,518; Mar. 19.
- Gurney, Albert J., assignor to The American Mine Door Co., Canton, Ohio. Closing mechanism for mine doors. 1,729,719; Oct. 1.
- Gurney Elevator Company. (See Gale, Ernest L., jr., assignor.)
- Gurney, Erving R., Beechhurst, assignor to International Motor Company, New York, N. Y. Spring suspension for a six-wheel chassis. 1,699,530; Jan. 22.
- Gurney, Erving R., Beechhurst, assignor to International Motor Company, New York, N. Y. Front-wheel construction. 1,713,963; May 21.
- Gurney, Erving R., Beechhurst, assignor to International Motor Company, New York, N. Y. Air-cooled clutch. 1,731,416; Oct. 15.
- Gurney Foundry Company Limited, The. (See Brown, T. G., and Gardner, assignors.)
- Gurney, James B., Collinsville, Ala. Pencil sharpener. 1,703,731; Feb. 26.
- Gurney, William W., Winona, Minn., and C. C. Woody, assignors to Madison Silo Company, Madison, Wis. Machine for making silo staves. 1,721,017; July 16.
- Gurr, Charles S., and J. S. Pope, Vienna, Ga. Holder for plow or cultivator scrapes or sweeps. 1,708,723; Apr. 9.
- Gurwick, Irving, assignor to Celophane Printing Corporation, New York, N. Y. Envelope and making the same. 1,702,115; Feb. 12.
- Gurwick, Irving, assignor to Celophane Printing Corporation, New York, N. Y. Printing process. 1,714,265; May 21.
- Gury, John B., jr., St. Louis, Mo. Stitching machine. 1,714,021; May 21.
- Guslusky, Peter, Kingston, Pa. Fruit-juice-pressure control. 1,733,875; Oct. 29.
- Gustafson, Adolph, assignor to M. Schulz Co., Chicago, Ill. Windshield cleaner. 1,697,911; Jan. 8.
- Gustafson, Adolph P., assignor of one-half to H. Goldstine, Chicago, Ill. Automobile signal. Des. 79,075; July 30.
- Gustafson, Adolph P., assignor of one-half to H. Goldstine, Chicago, Ill. Automobile signal. 1,720,834; July 16.
- Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Pneumatic musical instrument. 1,730,847; Oct. 8.
- Gustafson, Carl A., assignor to Russell-Grader Manufacturing Company, Minneapolis, Minn. Road grader. 1,698,435; Jan. 8.
- Gustafson, Carl E. (See Johnson, H., and Gustafson.)
- Gustafson, Carl L., Chicago, Ill. Work-holding clamp. 1,740,238; Dec. 17.
- Gustafson, Edwin, assignor to A C Spark Plug Company, Flint, Mich. Speedometer-drive adapter. 1,712,956; May 14.
- Gustafson, Edwin A., assignor A C Spark Plug Company, Flint, Mich. Speedometer-drive reducer. 1,712,955; May 14.
- Gustafson, Edwin A., assignor to A C Spark Plug Company, Flint, Mich. Speedometer drive. 1,712,957; May 14.
- Gustafson, Edwin A., assignor to A C Spark Plug Company, Flint, Mich. Speedometer drive. 1,738,771; Dec. 10.
- Gustafson, Ernest W., Quincy, Mass. Port light. 1,727,595; Sept. 10.
- Gustafson, Hjalmer C., assignor to Gardner-Denver Company, Denver, Colo. Tool-holding chuck. 1,726,295; Aug. 27.
- Gustafson, John G. (See Norton, C., and Gustafson.)
- Gustaveson, Lucille L., Tacoma, Wash. Twin lounge. 1,702,827; Feb. 19.
- Gustavson, Charles. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)
- Gustin, Clyde F., La Grange, assignor to Associated Engineers Company, Chicago, Ill. Closure for switch boxes. 1,728,271; Sept. 17.
- Gustin, Daniel S., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Dry coating lamp bulbs. 1,698,845; Jan. 15.
- Gustin, Daniel S., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Basing and soldering. 1,706,880; Mar. 26.
- Gustison, Ward V. (See Murphy, H. G., and Gustison.)
- Gutekunst, Leonard, Philadelphia, Pa. Cover support. 1,708,473; Apr. 9.
- Gutermuth, Max F., Darmstadt, Germany. Automatically-acting spring flap valve. 1,697,004; Jan. 1.
- Guth, Edwin F., St. Louis, Mo. Chandelier body. Des. 77,765; Feb. 19.
- Guth, Edwin F., St. Louis, Mo. Lighting fixture. 1,698,016; Jan. 8.
- Guth, Edwin F., Webster Groves, Mo. Fan. 1,699,201; Jan. 15.



- Guth, Edwin F., St. Louis, Mo. Globe holder. 1,710,730; Apr. 30.
- Guth, Edwin F., St. Louis, Mo. Lighting fixture for operating rooms. 1,712,268; May 7.
- Guth, Edwin F., St. Louis, Mo. Electric lighting socket. 1,722,743; July 30.
- Guth, Edwin F., Company, The. (See Lohman, Charles G., assignor.)
- Guth, Edwin F., Company, The. (See Owen, Raymond V., assignor.)
- Guthrie, Herbert B., Santa Clara County, Calif. Sprayer. 1,716,583; June 11.
- Guthrie, James M. (See Messler, E. L. and Guthrie.)
- Guthrie, Josephus, Declo, Idaho. Wire-fence stretcher. 1,710,021; Apr. 23.
- Guthrie, Robert G., and O. J. Wozasek, assignors to Peoples Gas By-Products Corporation, Chicago, Ill. Carburetizing iron and steel. 1,706,356; Mar. 19.
- Gutton, Sidney S., Allston, Mass. Net fabric. Des. 79,357; Sept. 10.
- Gutton, Sidney S., Allston, Mass. Net fabric. Des. 79,358; Sept. 10.
- Gutowski, Frank P., Sacramento, Calif. Marine life-saving apparatus. 1,723,156; Aug. 6.
- Güttlinger, Heinrich, Wettingen, assignor to Aktiengesellschaft Brown, Boveri and Cie, Baden, Switzerland. Quick-acting regulator. 1,738,102; Dec. 3.
- Güttlinger, Heinrich, jr., Wettingen, Switzerland, assignor, by mesne assignments, to Motor Pumpen Gesellschaft m. b. H., Berlin, Germany. Screw pump. 1,723,157; Aug. 6.
- Guttman, Willy V. (See Herrmann, E., and Pohn, assignors.)
- Gutzzeit, Charles W., New York, N. Y. Bearing device for penknives. 1,734,126; Nov. 5.
- Guy, Arthur M., Greensboro, N. C. Edge molding for roof. 1,723,158; Aug. 6.
- Guy, Burdett, and Company. (See Guy, Carl N., assignor.)
- Guy, Carl N., assignor to Burdett Guy & Company, Canastota, N. Y. Burial vault. 1,729,774; Oct. 1.
- Guy Motors Limited, et al. (See Buckney, Edward J. D., assignor.)
- Guy, Sydney S., et al. (See Buckney, Edward J. D., assignor.)
- Guy, William L., assignor of one-half to A. M. A. C. Limited, Birmingham, England. Carburetor. 1,733,122; Oct. 29.
- Guyer, Jesse A., La Salle, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,713,654; May 21.
- Guyer, Jesse A., La Salle, and M. C. Taylor, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,718,286; June 25.
- Guyer, Joseph A., assignor of one-half to H. F. Anderson, Marion, Ind. Electric iron. 1,724,927; Aug. 20.
- Guyn, George L. H. (See Guyn, Henry E., assignor.)
- Guyn, Henry E., assignor of one-half to G. L. H. Guyn, Philadelphia, Pa. Mag. Des. 77,547; Jan. 22.
- Guyon, Yves, and R. H. C. Marty, Paris, France. Wire-bag-making machine. 1,741,623; Dec. 31.
- Guyot Brothers Co., Inc. (See Guyot, Gaston A., assignor.)
- Guyot, Gaston A., assignor to Guyot Brothers Co., Inc., Attleboro, Mass. Gem setting. 1,710,660; Apr. 23.
- Guyot, Marius, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold. 1,703,075; Feb. 19.
- Guyot, Marius, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold and core. 1,727,348; Sept. 10.
- Guyot, Marius, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold for casting metals. 1,729,643; Oct. 1.
- Guyot, Reinhard, Los Angeles, Calif. Time station indicator. 1,698,303; Jan. 8.
- Guyot, Walter, Janesville, Wis., assignor, by mesne assignments, to Pen Desk Set Company. Desk set. 1,706,662; Mar. 26.
- Guy-Pell, William, et al. (See Brown, Sidney J., assignor.)
- Guy-Pell, William, London, England. Gas and electric heat radiator. 1,712,335; May 7.
- Guzman, Adriana. (See Pérez, Manuel H., assignor.)
- Gwaltney, Eugene C., Laurel Hill, N. C. Manufacture of cotton yarn and improved product. 1,736,592; Nov. 19.
- Gwisdalla, Peter, Detroit, assignor of one-fourth to A. and D. S. Polk, of Ruth, one-fourth to J. Polta, Parysville, and one-fourth to J. B. Sosnowski, Detroit Mich. Carburetor. 1,728,730; Sept. 17.
- Gwynne, Joseph, and J. N. Heltzel, assignors to The Heltzel Steel Form & Iron Company, Warren, Ohio. Batchers. 1,723,234; Aug. 6.
- Gydesen, Ansgar, K. A. Froberg, and W. J. Keenan, assignors to Printers Supply Company, Minneapolis, Minn. Insert-printing device. 1,737,925; Dec. 3.
- Gyllenkrook, Knut S. G., Waxholm, Sweden. Snowplow. 1,730,817; Oct. 8.
- Gymer, William, East Ryegate, Vt. Spoon holder. 1,700,200; Jan. 29.
- Gypsum Engineering and Manufacturing Co. (See Payne, Caleb, assignor.)
- Gypsy Oil Company. (See Collins, Hubert D., assignor.)
- Gyro Process Company. (See Ramage, Alexander S., assignor.)
- Gyro Process Corporation. (See Weaver, Joseph B., assignor.)
- Gyth, Volmer L. U., Copenhagen, Denmark. Bridge-scoring device. 1,712,884; May 14.
- Haabestad, Erling H., assignor to The B. A. S. Company, Philadelphia, Pa. Separating liquids. 1,716,957; June 11.
- Haag, Edward N., Philadelphia, Pa. Cushion for shoe heels. 1,724,349; Aug. 13.
- Haage, Frederick G., New York, N. Y., assignor to Powers and Mayer, Incorporated. Wrist-watch strap. Des. 79,424; Sept. 17.
- Haager, Hans, Bad Hall, Austria. Refrigerating or cooling apparatus. 1,737,083; Nov. 26.
- Haack, Hans, Berlin-Steglitz, assignor to the firm: Exploration Bodenuntersuchungs & Verwertungs-G. m. b. H., Berlin, Germany. Torsion balance for measuring differences of gravity. 1,733,407; Oct. 29.
- Haas, Carl F., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Cap for lamp standards. Des. 78,516; May 14.
- Haas, Carl F., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lamp standard. Des. 78,690; June 4.
- Haas, Carl F., South Bend, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lamp standard. Des. 78,813; June 25.
- Haas, Charles A., Redwood City, assignor to Haas Non-Glare Headlight Company, San Francisco, Calif. Non-glare headlight. 1,740,507; Dec. 24.
- Haas, Earle C., Wray, Colo. Cartridge for use in medicine-applying means. 1,736,078; Nov. 19.
- Haas, Fred S., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machinery. 1,723,852; Aug. 6.
- Haas, Gustav, Frankfurt-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Apparatus for delivering measured doses of powdered or granular substances. 1,725,913; Aug. 27.
- Haas, Hartwell, assignor of one-third to J. O. F. Haas, Los Angeles, Calif. Telephone-transmitter silencer. 1,701,883; Feb. 12.
- Haas, J. O. Francis. (See Haas, Hartwell, assignor.)
- Haas, John S., and R. Bernhard, assignors to Traylor Engineering & Manufacturing Company, Allentown, Pa. Gyrotrator crusher. 1,716,342; June 4.
- Haas, Joseph. (See Mettler, J. W., Haas, and Evans.)
- Haas, Joseph F. (See Wodack, O. P., and Haas.)
- Haas, Joseph F., Forest Park, assignor to Wodack Electric Tool Corporation, Chicago, Ill. Power-driven tool. 1,736,970; Nov. 26.
- Haas, Nelson R., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Dynamo brush. 1,703,191; Feb. 26.
- Haas, Nelson R., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Dynamo brush. 1,729,343; Sept. 24.
- Haas Non-Glare Headlight Company. (See Haas, Charles A., assignor.)
- Haas, Rudolf, Baden-Baden, Germany. Apparatus for washing threads wound on bobbins. 1,709,215; Apr. 16.
- Haas, William A., Council Bluffs, Iowa. Paper-hanger's rule. 1,724,474; Aug. 13.
- Haas, William V., Hartford, Conn. Rug-washing machine. 1,732,268; Oct. 22.
- Haase, Edward, Ralston, Wash. Toy hoisting crane. 1,723,694; Aug. 6.
- Haase, Jorgen I., Akron, Ohio. Kitchen utensil. 1,707,804; Apr. 2.
- Haase, Jorgen I., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method and device for wrapping hose. 1,706,605; Mar. 26.
- Haase, Jorgen I., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-trimming machine. 1,721,298; July 16.
- Haase, Jorgen I., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-building machine. 1,735,680; Nov. 12.
- Haase, Leo G., Pasadena, Calif. Concrete bench and table. 1,713,225; May 14.
- Haase, Leo G., Long Beach, Calif. Meter box. 1,719,224; July 2.
- Haase, Louis, Manhasset, assignor to Fairchild Airplane Manufacturing Corporation, Farmingdale, N. Y. Pontoon-nose buffer. 1,731,492; Oct. 15.
- Haase, Max, Buchschlag, near Frankfurt-on-the-Main, assignor to Werbelicht Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Switch device for the production of luminous signs. 1,726,348; Aug. 27.
- Haase, Max, Buchschlag, near Frankfurt-on-the-Main, Germany. Light advertising plant. 1,742,071; Dec. 31.
- Haase, Wilbert W., Forest Park, Ill. Self-sealing vault or receptacle. 1,722,744; July 30.
- Habann, Wilhelm E. B., Berlin, Germany. Thermionic tube. 1,719,699; July 2.
- Habann, Wilhelm E. B., Berlin, Germany. Transmitting the speech by high-frequency waves. 1,739,455; Dec. 10.
- Habart, Joseph. (See Bears, C. L., and Habart.)
- Habel, Richard P., Sioux City, Iowa. Cleaning machine. 1,721,444; July 16.
- Habenicht, Frederick K., and F. H. Pietzsch, assignors to Railway Devices Company, St. Louis, Mo. Transition angle-cock holder. 1,716,521; June 11.
- Habenicht, Frederick K., and F. H. Pietzsch, assignors to Railway Devices Company, St. Louis, Mo. Forged journal-bearing wedge and making same. 1,726,180; Aug. 27.



- Haber, Eugen, Berlin-Charlottenburg, Germany. Heat exchanger. 1,737,189; Nov. 26.
- Haber, Francis C., Brooklyn, N. Y. Feed-water pre-heater. 1,701,262; Feb. 5.
- Haber, Lee O., assignor to Buffalo Co-Operative Stove Co., Buffalo, N. Y. Incinerator. 1,699,531; Jan. 22.
- Haber, Oscar, Brooklyn, N. Y. Jewelry and watch laundry machine. 1,733,192; Oct. 29.
- Haberer, Albert J., Ann Arbor, Mich. Dispensing cabinet for tongue depressors. 1,741,295; Dec. 31.
- Haberman, Anton C., Cloquet, Minn. Pop-corn carton. 1,707,853; Apr. 2.
- Habib, Joseph, New York, N. Y. Safety razor. 1,735,388; Nov. 12.
- Habicht, Franz P., Schaffhausen, Switzerland. Panto-graphic machine tool. 1,703,421; Feb. 26.
- Habicht, George C., Snyder, N. Y. Railroad tie. 1,720,473; July 9.
- Habicht, Otto, Frankfort-on-the-Main, Germany. Footwear. 1,729,254; Sept. 24.
- Habirshaw Cable & Wire Corporation. (See Del Mar, William A., assignor.)
- Haboush, Stephen A., Philadelphia, Pa. Folding frame. 1,701,206; Feb. 5.
- Habrie, Jules, Sawtelle, assignor to F. N. Oertling, Sawtelle, Calif. Transmission mechanism. 1,716,548; June 11.
- Haburcak, Frank J., Cleveland, Ohio. Cradle motor. 1,727,766; Sept. 10.
- Haby, Emil, Lampasas, Tex. Aquatic vehicle. 1,732,679; Oct. 22.
- Hachita, Maximilian S., Wilkes-Barre, Pa. Coal jig. 1,701,155; Feb. 5.
- Hack, Edwin, Homebush, near Sydney, Australia. Rebound damper for vehicle suspension springs. 1,732,269; Oct. 22.
- Hack, Thomas M. (See Stuthridge, J. H., and Hack.)
- Hack, Walter K., Santa Cruz, Calif. Ignition-testing device. 1,736,004; Nov. 19.
- Hacker, Emil H., Milwaukee, Wis. Novelty package. 1,725,073; Aug. 20.
- Hackethal, Paul F., Cleveland, Ohio, assignor to R. L. Skinner Detroit, Mich. Mounting for internal-combustion-engine pistons. 1,724,193; Aug. 13.
- Hackett, Lewis E., Lansing, Mich. Fluid-metering system. 1,711,676; May 7.
- Hackett, William F., Brooklyn, N. Y. Culinary appliance. 1,712,143; May 7.
- Hackett, William F., New York, N. Y. Culinary appliance. 1,712,144; May 7.
- Hackford, John E., assignor to Hakol, Limited, London, England. Oil-gas process. 1,723,418; Aug. 6.
- Hackley, Lavant R., Peru, Ind. Shoe rack. 1,733,487; Oct. 29.
- Hackley, Roy C., Berkeley, Calif. Lining tunnels with concrete and apparatus therefor. 1,716,125; June 4.
- Hackman, Harry, Detroit, Mich. Two-cycle gas engine. 1,732,013; Oct. 15.
- Hackney, Arthur G., Winston-Salem, assignor of one-half to J. M. Hunt, Greensboro, N. C. Combined hospital cot and rolling chair. 1,710,820; Apr. 30.
- Hackney, Arthur G., Winston-Salem, assignor of one-half to J. M. Hunt, Greensboro, N. C. Wheel chair. 1,710,821; Apr. 30.
- Hackney, Arthur G., Hickory, assignor of one-half to J. M. Hunt, Greensboro, N. C. Baby bed. 1,710,823; Apr. 30.
- Hackstaff, John D., and L. T. McCutcheon, Los Angeles, Calif. Method and apparatus for determining the position of fluid-bearing sands while drilling wells. 1,720,325; July 9.
- Hadaway, John B., Swampscott, Mass. Camera. 1,703,818; Feb. 26.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel. 1,698,791; Jan. 15.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-leveling machine. 1,703,850; Feb. 26.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe parts. 1,720,728; July 16.
- Haddad, Saleem J., Tenafly, N. J. Trimming and cutting devices. 1,728,272; Sept. 17.
- Hadden, William J., assignor to Donaldson Manufacturing Company Limited, Glasgow, Scotland. Fastening means for securing fabric to a rigid base. 1,734,769; Nov. 5.
- Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,700,478; Jan. 29.
- Haddon, Walter, London, and J. M. Burnett, Weston-by-Welland, England. Pasted accumulator grid or plate. 1,710,617; Apr. 23.
- Haddow, William, Ossining, N. Y. Die-lapping machine. 1,714,869; May 28.
- Haddrell, Charles H., Swampscott, Mass., assignor to General Electric Company. Dynamo-electric machine. 1,701,362; Feb. 5.
- Haderman, Frank W., Los Angeles, Calif. Slow-acting circuit controller. 1,720,896; July 16.
- Hadfield, Claude, assignor of one-half to F. B. Firth, Philadelphia, Pa. Knitted fabric. 1,721,890; July 16.
- Hadfield-Penfield Steel Company. (See Henneuse, Clarence A., assignor.)
- Hadfield, Robert A., Westminster, England. Manufacture of steel products. 1,704,385; Mar. 5.
- Hadley Company, The. (See Mealy, Charles A., assignor.)
- Hadley Company, The. (See Tost, Charles R., assignor.)
- Hadley, Harlan A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale beam. Des. 78,571; May 21.
- Hadley, Walter C., New York, N. Y., assignor to American Printing Company, Fall River, Mass. Design generation. 1,712,431; May 7.
- Hadly, James T. (See Bechtel, Robert M., assignor.)
- Hadwin, Harry, Glossop, England. Cloth expander. 1,738,700; Dec. 10.
- Hadwik Mfg. Co. (See Wikstrom, Frank G., assignor.)
- Haeblerlein, Max. (See Sturgess, J., and Haeblerlein.)
- Haeblerlin, A. (See Rose, F. W. P., and Werner, assignors.)
- Haeblerlin, George, Paterson, N. J. Machine for treating fabrics with liquid. 1,706,691; Mar. 26.
- Haederer, Gustave A. (See Ragsdale, E. J. W., and Haederer.)
- Haedrich, Paul, Duisburg-Wanheim and O. Kippe, Osnabrueck, assignors to Metallgesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany. Converting tin ores into the form of pieces. 1,726,066; Aug. 27.
- Haefely, Emil & Cie. A. G. (See Hess, Wilhelm, assignor.)
- Haefner, Frank S., and L. F. Zweibel, Wilkes-Barre, Pa. Sand separating and blending machine. 1,717,555; June 18.
- Haehl, William G., Manila, Ind. Washing-machine attachment. 1,697,726; Jan. 1.
- Haehl, William G., Manila, Ind. Clutch-pedal holder. 1,697,727; Jan. 1.
- Haehle, Herman, Milwaukee, and S. Kraynick, West Allis, assignors to Harnischfeger Corporation, Milwaukee, Wis. System of motor control. 1,718,232; June 25.
- Haehnel, Wolfram. (See Herrmann, W. O., and Haehnel.)
- Haering, Carl G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Making fused multifocal lenses. 1,734,428; Nov. 5.
- Haertter, Reba M., Irvington, N. J. Pancake-turner type kitchen utensil. 1,723,507; Aug. 6.
- Haese, William, Miami, Fla. Spoon and fork holder. 1,717,556; June 18.
- Haefemeister, Fred F., assignor to The Cleveland Switch-board Company, Cleveland, Ohio. Mounting for panel boards, etc. 1,711,841; May 7.
- Haffey, Calvin W. (See Gonser, B. W., and Haffey.)
- Haffey, Earl F. (See Koenig, H. T., Fischer, Haffey, and Clampitt.)
- Haffner, Charles, Allentown, Pa. Electrical door lock. 1,736,761; Nov. 19.
- Hafing, Ruth, Brooklyn, N. Y. Nursing-bottle holder. 1,723,731; Aug. 6.
- Hagarty, Thomas B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for automatic looms. 1,711,597; May 7.
- Hagberg, Herman C. J., Berkeley, Calif. Attachment for stringed musical instruments. 1,732,468; Oct. 22.
- Hage, Arne R. A., Gottenburg, Sweden, assignor to J. W. Hage, Cape Town, South Africa. Holder for razor blades. 1,697,355; Jan. 1.
- Hage, Julius W. (See Hage, Arne R. A., assignor.)
- Hagel, Albert, Newark, N. J., assignor to Chase Companies Inc., Waterbury, Conn. Wrist pact. 1,706,059; Mar. 19.
- Hagel, Albert, Newark, N. J., assignor to Chase Companies Inc., Waterbury, Conn. Combined cigarette case and vanity box. 1,716,051; June 4.
- Hagel, Albert, assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Safety-pin holder. 1,716,052; June 4.
- Hageman, Aloysius S., assignor to The Ash Cabinet & Manufacturing Company, Dayton, Ohio. Folding chair. 1,698,697; Jan. 8.
- Hageman, Aloysius S., assignor to The Ash Cabinet & Manufacturing Company, Dayton, Ohio. Folding chair. 1,698,698; Jan. 8.
- Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Positive folding attachment. 1,698,401; Jan. 8.
- Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Strip folder for manifolding machines. 1,722,290; July 30.
- Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Paper aligner for billing machines. 1,734,374; Nov. 5.
- Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Strip-aligning device for billing machines and the like. 1,734,574; Nov. 5.
- Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Autographic register. 1,735,858; Nov. 19.
- Hagemann, Louis F., and W. Greig, Niagara Falls, N. Y., assignors to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,735,857; Nov. 19.
- Hagemo, Ingvald J. A., Minneapolis, Minn., assignor, by mesne assignments, to J. E. Ridenour, Waterloo, Iowa. Savings bank and toy. 1,740,172; Dec. 17.
- Hagen, Berger A. (See Martell, C., and Hagen.)



- Hagen, Clarence R. (See Johnston, E. A., Baker, and Hagen.)
- Hagen, Joseph, Chicago, Ill. Window-washer safety-belt terminal. 1,705,447; Mar. 12.
- Hagen, Joseph J. (See Mueller, E. J., and Hagen.)
- Hagen, Rudolf. (See Parrott, W. J., and Hagen.)
- Hagen, Russell W., Chicago, Ill., assignor to J. A. Meyer, St. Louis, Mo. Drum. Re1,754,6; Dec. 31.
- Hagen, Wilhelm. (See Fehse, W., and Hagen.)
- Hagenauer, Karl, Vienna, Austria. Holder for a jar or similar article. Des. 50,080; Dec. 10.
- Hagenbook, Thurlow M. (See Allen, G. H., and Hagenbook.)
- Hagenbucher, Eugen, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Desuperheater. 1,701,233; Feb. 5.
- Hagenlocker, John G. (See Welch, F. J., Hawkins, and Hagenlocker.)
- Hagens, Jacob F. C., L. Rosenstein, San Francisco, and W. Hirschkind, Antioch, Calif., assignors to The Barrett Company, New York, N. Y. Production of dicalcium phosphate and ammonium sulphate. 1,699,393; Jan. 15.
- Hager, Earl M., Eureka, and E. O'Brien, Florence, Kans. Sighting rib. 1,718,458; June 25.
- Hager, Emil F., Richmond Hill, N. Y. Display device. 1,729,828; Oct. 1.
- Hager, Henry F., assignor to Hager Manufacturing Company, Muncie, Ind. Mattress. 1,725,187; Aug. 20.
- Hager, Lee, and J. Popperman, assignors to Pine-O-Pine Company, Houston, Tex. Laundering and detergent used therein. 1,710,974; Apr. 30.
- Hager, Lee, and J. Popperman, assignors to Pine-O-Pine Company, Houston, Tex. Dry cleaning and composition for use therein. 1,710,975; Apr. 30.
- Hager Manufacturing Company. (See Hager, Henry F., assignor.)
- Hagerman, Alva L., Lafayette, Colo. Electrical insulator assembly. 1,712,432; May 7.
- Haggard, George R., Denver, Colo. Dump body for trucks. 1,734,725; Nov. 5.
- Haggard, Luther C. (See Lytle, W. A., and Haggard.)
- Haggart, John C., Jr., assignor to Republic Motor Truck Co., Inc., Alma, Mich. Four-wheel truck. 1,734,331; Nov. 5.
- Haggart, John C., Jr., Alma, assignor, by mesne assignments, to Detroit Patents Holding Company, Detroit, Mich. Spring connection. 1,719,884; July 9.
- Haggem, Alfred G., Tulsa, Okla. Casing head. 1,723,934; Aug. 6.
- Haggem, John, Seattle, Wash. Clothes drier. 1,723,350; Aug. 6.
- Haggerty, Joseph F., assignor to National Gypsum Company, Buffalo, N. Y. Plastic composition and making the same. 1,702,965; Feb. 19.
- Haggerty, Joseph F., Coronado, Calif., assignor to National Gypsum Company, Buffalo, N. Y. Wall board. 1,702,966; Feb. 19.
- Hagglund, Torsten E., Chicago, Ill. Pulverizing attachment for power plows. 1,733,153; Oct. 29.
- Hagihara, Eiichi, Nasu-Gun, Tochigi-Ken, Japan. Knitting tool. 1,705,860; Mar. 19.
- Hagihara, Masa, Tochigi-Ken, Japan. Knitting device. 1,718,140; June 18.
- Hagist, Emil T., Philadelphia, Pa., assignor, by mesne assignments, to T. E. Murray, Jr., Brooklyn, N. Y. Switch box. 1,737,235; Nov. 26.
- Hagist, Herman J., Beech Grove, assignor to International Printing Company, Indianapolis, Ind. Carton sealer. 1,735,681; Nov. 12.
- Hagiwara, Kiyohiko, Oji-Machi, Kamikyo-Ku, Kyoto, assignors to Toshiya Iwasaki, Tokyo, Japan. Manufacturing artificial silk and other filaments by applying electric current. 1,699,615; Jan. 22.
- Haglund, Hakon H., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Tuning fork. 1,715,324; May 28.
- Haglung, Ture R., Stockholm, Sweden. Producing metals and alloys. 1,731,976; Oct. 15.
- Hagmaier, William G., West Allis, and E. C. Shaw, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Band sawmill. 1,740,085; Dec. 17.
- Hagmaier, William G., West Allis, and E. C. Shaw, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Root-cutting machine. 1,740,086; Dec. 17.
- Hagman, Carl A., Brooklyn, N. Y. Trimming machine. 1,725,267; Aug. 20.
- Hagman, Harry C., assignor to H. P. Boos, Minneapolis, Minn. Attaching device for dentures. 1,735,537; Nov. 12.
- Hagman, Harry C., Minneapolis, Minn. Dental articulator. 1,736,006; Nov. 19.
- Hagman, William J., Philadelphia, Pa. Power-driven railway truck. 1,698,583; Jan. 8.
- Hagman, William J., Philadelphia, Pa. Power-driven railway truck. 1,698,589; Jan. 8.
- Hagman, William J., Philadelphia, Pa. Forge hammer. 1,740,341; Dec. 17.
- Hagmann, Ulrich, St. George, N. Y., assignor to Quaker Oats Company, Chicago, Ill. Plate. Des. 78,466; May 7.
- Hagopian, Vahan, assignor to American Enameled Brick & Tile Co., New York, N. Y. Fluted column. Des. 78,286; Apr. 16.
- Hagstedt, Charles H., New York, N. Y. Electrical conduit coupling. 1,697,815; Jan. 1.
- Hagstedt, Nils, Stockholm, Sweden. Device for heating or cooling fluids. 1,727,822; Sept. 10.
- Hague, Alexander C. P., Boston, Mass. Hobbyhorse. 1,708,090; Apr. 9.
- Hague, Alfred, & Company. (See Tomizawa, Harukichi, assignor.)
- Hague, Alfred G., assignor to Rollins Hosiery Mills, Des Moines, Iowa. Needle for repairing runs in knitted fabrics. 1,732,469; Oct. 22.
- Hague, Floyd T., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating system. 1,728,564; Sept. 17.
- Hague, Joseph T., executor. (See Dreyer, F., and Lamy.)
- Hahl, Hans, Elberfeld, near Cologne-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Complex antimony compound. 1,701,234; Feb. 5.
- Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Complex antimony compounds and making same. 1,703,732; Feb. 26.
- Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Basic ether of resorcinol. 1,711,020; Apr. 30.
- Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Basic phenol-alkylether. 1,725,136; Aug. 20.
- Hahl, Hans, and L. Schütz, Elberfeld, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Hemostyptic compound. 1,723,695; Aug. 6.
- Hahl, Hans, and L. Schütz, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Pharmaceutical product. 1,723,696; Aug. 6.
- Hahn, Alfred M., assignor to Artercraft Silk Hosiery Mills, Inc., Philadelphia, Pa. Hosiery. 1,715,323; May 28.
- Hahn, Arthur M., and A. W. Cash, assignors to A. W. Cash Valve Mfg. Corp., Decatur, Ill. Regulating valve for pressure control of hot-water heating systems. 1,697,865; Jan. 8.
- Hahn, Benjamin D., Greenville, S. C. Loom. 1,726,434; Aug. 27.
- Hahn, Elmer L., McAllen, Tex. Cabinet camp table. 1,716,584; June 11.
- Hahn, Eugene, Philadelphia, Pa. Impact liner for jet conveyers. 1,710,577; Apr. 23.
- Hahn, Harry W., Los Angeles, Calif. Lock for floor safes. 1,717,682; June 18.
- Hahn, Louis G., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Method and machine for making armature conductors. 1,721,623; July 23.
- Hahn, Morris L., and F. O. Hiller, Dayton, Ohio. Hand basket. 1,712,558; May 14.
- Hahn, Otto W., San Francisco, Calif. Disk clutch. 1,722,522; July 30.
- Hahn, William P., et al., trustees. (See Carter, Edwin M., assignor.)
- Hahne & Company. (See Mabree, William R., assignor.)
- Hahnemann, Paul R., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Slip-roll-forming machine. 1,735,243; Nov. 12.
- Hahnemann, Walter. (See Schmidt, K., and Hahnemann.)
- Hahnemann, Walter, assignor to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Multiple-range sound-transmitting system. 1,711,529; May 7.
- Hahnemann, Walter, Kitzberg, near Kiel, assignor to Signal Gesellschaft m. b. H. Kiel, Germany. Arrangement for eliminating disturbances in receiving sound waves. 1,715,831; June 4.
- Hahnemann, Walter, Kitzberg, near Kiel, and H. Hecht and B. Settgast, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Sound-transferring means. 1,702,346; Feb. 19.
- Hahnemann, Walter, Kitzberg, near Kiel, and H. Hecht and B. Nielsen, Kiel, assignors to Signal Gesellschaft m. b. H., Bremen, Germany. Method and arrangement of directional wave reception and emission. 1,735,460; Nov. 12.
- Hahnemann, Walter, L. Adelman, Kitzberg, near Kiel, and H. Liebt, assignors to the firm Signal Gesellschaft m. b. H., Kiel, Germany. Arrangement for eliminating disturbances in sound signaling. 1,715,344; June 4.
- Hahner, August F., assignor of forty per cent to W. L. Stangler, Los Angeles, Calif. Automatic spring wheel. 1,701,325; Feb. 5.
- Haig, Rollo A. D. (See Chorlton, A. E. L., Haig, and Stieger.)
- Haigh, Christopher. (See Guay, Joseph A., assignor.)
- Haight, Galen A., Detroit, Mich. Piston. 1,739,792; Dec. 17.
- Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company Jersey City, N. J. Electric switch. 1,708,695; Apr. 9.
- Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Foot control for shank and bit punches. 1,723,730; Aug. 6.
- Haight, Hiram H., Milwaukee, Wis. Pump. 1,739,139; Dec. 10.
- Haigney, Susan J., Brooklyn, N. Y. Package or container for liquids. 1,741,154; Dec. 31.
- Haile, J. T., et al. (See Laidlaw, Robert A., assignor.)



- Hailes, William D., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,703,844; Feb. 26.
- Hailes, William D., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,706,849; Mar. 26.
- Hailes, William D., assignor to General Railway Signal Company, Rochester, N. Y. Continuous inductive train-control system. 1,720,631; July 9.
- Hailes, William D., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system for railroads. 1,736,728; Nov. 19.
- Hails, Daniel T., Coral Gables, Fla. Dispenser for confections or similar article. Des. 79,714; Oct. 29.
- Hails, Edward T., Montgomery, Ala., assignor to Steiner Sales Company, Salt Lake City, Utah. Roll-towel cabinet. 1,719,429; July 2.
- Hailwood, Anthony J., Blackley, Manchester, assignor to British Dyestuffs Corporation Limited, Manchester, Lancashire, England. Electrolytic desulphuration of anthraquinone sulphonic acids. 1,724,928; Aug. 20.
- Haines, George D., Park Ridge, assignor to Porcelain Tile Company, Chicago, Ill. Tiled wall or the like. 1,704,537; Mar. 5.
- Haines, George H., Caledonia, assignor to The Grain Machinery Company, Marion, Ohio. Mixing apparatus. 1,720,360; July 9.
- Haines, George H., Caledonia, assignor to The Grain Machinery Company, Marion, Ohio. Mixing apparatus. 1,721,553; July 23.
- Haines, Glen H., Cuyahoga Falls, Ohio. Shock absorber. 1,727,121; Sept. 3.
- Haines, Merl, Mayfield, assignor of one-third to H. A. Sheldon and one-third to H. A. Cole, Gloversville, N. Y. Liquid-level signal. 1,715,499; June 4.
- Haines, William T., Mountain Lakes, N. J., assignor to American Telephone and Telegraph Company. Call-charging telephone-exchange system. 1,725,757; Aug. 27.
- Haines, William T., Mountain Lakes, N. J., assignor to American Telephone and Telegraph Company. Measuring system. 1,736,785; Nov. 26.
- Hainke, William, Kensington, Kans. Roundabout. 1,720,397; July 9.
- Hainline, Walter D., San Francisco, Calif. Pin-tumbler lock. 1,739,964; Dec. 17.
- Hair, Charles E., Beaufort, assignor of one-half to E. A. Brown, Barnwell, and one-half to F. U. Hair, Charleston, S. C. Highway template construction and maintenance machine. 1,741,127; Dec. 24.
- Hair, Fay U., et al. (See Hair, Charles E., assignor.)
- Haire, Robert E., Paris, Ontario, Canada. Treating gypsum. 1,702,940; Feb. 19.
- Haiss, Alfred W., assignor to George Haiss Manufacturing Co. Inc., New York, N. Y. Tractor. 1,700,127; Jan. 29.
- Haiss, Alfred W., assignor to George Haiss Manufacturing Co. Inc., New York, N. Y. Loader. 1,708,132; Apr. 9.
- Haiss, George, Manufacturing Company. (See Bosworth, William H., assignor.)
- Haiss, George, Manufacturing Co. (See Haiss, Alfred W., assignor.)
- Haiss, George, Manufacturing Co. Inc. (See Haiss, Alfred W., assignor.)
- Hajný, Vaclav J., Brookfield, Ill. Plaque. Des. 78,019; Mar. 19.
- Hajný, Vaclav J., Brookfield, Ill. Plaque. Des. 78,020; Mar. 19.
- Hajný, Vaclav J., Brookfield, Ill. Plaque. Des. 78,096; Mar. 26.
- Hajoca Corporation. (See Muend, Charles J., assignor.)
- Hajos, Joseph, St. Louis, Mo. Keyway-cutting machine. 1,700,795; Feb. 5.
- Hake, Charles Y., York, Pa. Incubator. 1,725,634; Aug. 20.
- Hake, Donald S., assignor to Acheson Graphite Company, Niagara Falls, N. Y. Calomel electrode vessel. 1,700,796; Feb. 5.
- Hake, Elmer C., assignor to The Ludlow Manufacturing Company, Covington, Ky. Liquid-dispensing device. 1,724,475; Aug. 13.
- Hake, Elmer C., Cincinnati, Ohio, assignor to The Ludlow Manufacturing Company, Ludlow, Ky. Advertising device. 1,726,148; Aug. 27.
- Hake, Elmer C., Covington, Ky., and S. S. Seligman, Cincinnati, Ohio; said Hake assignor to said Seligman. Dispensing device. 1,734,968; Nov. 12.
- Hake, Henry I., Tipton, Kans. Grain-car door. 1,721,112; July 16.
- Hakins, George B., Norwood, N. Y. Dental tool. 1,706,060; Mar. 19.
- Hakol Limited. (See Hackford, John E., assignor.)
- Halagarda, Thomas, Omaha, Nebr. Lock nut. 1,725,790; Aug. 27.
- Halapin, Steve, Detroit, Mich. Rail-joint lock. 1,735,967; Nov. 19.
- Halbert, Samuel W., Los Angeles, Calif. Hack-saw frame. 1,699,291; Jan. 15.
- Halcolite Company. (See Lipsky, Norman, assignor.)
- Halcolite Company. (See Rotellini, Martin, assignor.)
- Halcolite Company. (See Rotellini, Martin S., assignor.)
- Halcolite Company. (See Villaret, Gustave E., assignor.)
- Hald, Georg. (See Larsson, Oscar, assignor.)
- Halden, Leonard M., Fergus Falls, Minn. Valve-spring compressor. 1,701,672; Feb. 12.
- Hale, Alfred, Rubber Company. (See Cutler, David A., assignor.)
- Hale, Benjamin F., Cape Elizabeth, Me. Flowerpot. 1,707,551; Apr. 2.
- Hale, Edward E., Buffalo, N. Y. Egg carton. 1,733,663; Oct. 29.
- Hale, Frank B. (See Stallard, E. M., and Hale.)
- Hale, Frank M., Chester, W. Va. Belt buckle. 1,729,479; Sept. 24.
- Hale, Frank M., Chester, W. Va. Belt buckle. 1,738,576; Dec. 10.
- Hale, George M., Glen Rose, Tex. Album. 1,729,480; Sept. 24.
- Hale, Harold D., Somerville, Mass. Damper spring for piano actions. 1,714,022; May 21.
- Hale & Kilburn Co. (See Harrington, William F., assignor.)
- Hale & Kilburn Co. (See Hasen, Conrad T., assignor.)
- Hale & Kilburn Co. (See Wetzel, Edward A., assignor.)
- Hale, Roger W., Hartford, Conn. Braiding-machine carrier. 1,723,159; Aug. 6.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Co., Philadelphia, Pa. Coal and ashes handling system. 1,703,035; Feb. 19.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Automatic brake. 1,715,003; May 28.
- Hale, William J., and E. C. Britton, assignors to The Dow Chemical Company, Midland, Mich. Manufacture of phenol. 1,737,841; Dec. 3.
- Hale, William J., and E. C. Britton, assignors to The Dow Chemical Company, Midland, Mich. Making phenols. 1,737,842; Dec. 3.
- Hale, William J., and J. W. Britton, assignors to The Dow Chemical Company, Midland, Mich. Making aniline and other arylamines. Re17,280; Apr. 23.
- Hale, William J., and G. H. Cheney, assignors to The Dow Chemical Company, Midland, Mich. Making halogenated anilines. 1,729,775; Oct. 1.
- Halemeier, Henry C., Brussels, Ill. Music-leaf turner. 1,716,693; June 11.
- Hales, Sidney E., Kingston-on-Thames, England. Pneumatic and hydraulic apparatus. 1,700,044; Jan. 22.
- Haley, Charles S. (See Crowley, A. J., and Haley.)
- Haley, Hutton H. (See Rich, E. A., Jr., and Haley.)
- Haley, Reuben, Beaver, assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa. Glass vase. Des. 77,482; Jan. 15.
- Haley, Reuben, Beaver, assignor to Consolidated Lamp and Glass Company, Coraopolis, Pa. Glass dish. Des. 77,691; Feb. 12.
- Haley, Reuben, Beaver, assignor to Consolidated Lamp & Glass Company, Coraopolis, Pa. Shade for a lighting fixture. Des. 77,898; Mar. 5.
- Haley, Reuben, Beaver, Pa., assignor to Street Luminare Company, Chicago, Ill. Globe for street lamps. Des. 79,466; Sept. 24.
- Haley, Reuben, Beaver, Pa., assignor to Street Luminare Company, Chicago, Ill. Glass. Des. 79,517; Oct. 1.
- Haley, Reuben, Beaver, Pa. Bubble or blister glass. 1,715,130; May 28.
- Haley, William T., and R. R. Williams, Christopher, Ill. Terminal connector. 1,698,629; Jan. 8.
- Halferty, Irwin H., Pittsburgh, Pa. Spectacle frame. 1,729,040; Sept. 24.
- Halford, Frank B., London, England. Valve gear for internal-combustion engines. 1,721,341; July 16.
- Halgrimson, Henry E., Presho, S. Dak. Fence-post anchor. 1,717,557; June 18.
- Haling, Otto W., Rochester, Minn. Carburetor. 1,733,730; Oct. 29.
- Halk, Louis, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y. Toilet kit. 1,715,913; June 4.
- Halk, Louis, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y. Manicure applicator. 1,715,914; June 4.
- Hall, Addye Y., New York, N. Y. Piano-instruction device. 1,741,768; Dec. 31.
- Hall, Addye Y., New York, N. Y. Piano-instruction device. 1,741,769; Dec. 31.
- Hall, Alfred B., and J. H. Quilhot, New York, N. Y. Battery indicator. 1,703,233; Feb. 26.
- Hall, Allan E., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sheave structure. 1,740,087; Dec. 17.
- Hall, Archibald J., Timbersbrook, Congleton, England, assignor to Celanese Corporation of America. Treatment of cellulose acetate artificial silk. 1,709,470; Apr. 16.
- Hall, Axel V. (See Uddenborg, Johan R., assignor.)
- Hall, Bicknell, Quincy, Mass. Latch. 1,738,648; Dec. 10.
- Hall, C. M., Lamp Company. (See Bamford, Frank L., assignor.)
- Hall, Carter F., Baltimore, Md. Compressor and the like. 1,738,104; Dec. 3.
- Hall, Charles B., deceased; G. A. Molden, administrator, assignor to Berkeley Hall Furniture Company, Portland, Oreg. Davenport bed. 1,728,488; Sept. 17.
- Hall, Charles C., Albany, Oreg. Fireplaceform. 1,708,790; Apr. 9.
- Hall, Charles C., assignor to Banner Rock Corporation, Alexandria, Ind. Expansion joint. 1,711,842; May 7.
- Hall, Charles G., Boise, Idaho. Waiterless restaurant. 1,705,112; Mar. 12.
- Hall, Charles G., Portland, Oreg., assignor to Novelty Food Corporation, Boise, Idaho. Machine for making confections and the like. 1,719,931; July 9.



- Hall, Charles J., Wilksburg, and G. C. Kent, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company. Design and molding the same. 1,697,182; Jan. 1.
- Hall, Charles S., Oakland, Calif., assignor to Hall Engineering & Aircraft Construction Company. Safety parachute device for aircraft. 1,720,041; July 9.
- Hall, Charles S., Los Angeles, Calif., assignor to Hall Engineering & Aircraft Construction Company. Aircraft-propelling mechanism. 1,740,088; Dec. 17.
- Hall, Charles W., Denver, Colo., assignor to Kant-Klick Valve Silencer Company. Silencer for valve mechanisms. 1,724,707; Aug. 13.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Combined relay and indicator. 1,708,789; Apr. 9.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Electric measuring instrument. 1,713,179; May 14.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. High-speed graphic recorder. 1,713,226; May 14.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Electrically-wound clock. 1,734,902; Nov. 5.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Demand meter and recorder. 1,742,072; Dec. 31.
- Hall, Clara E., Belding, Mich. Ice rack. 1,724,921; Aug. 20.
- Hall, Claud R., Tulsa, Okla. Cleaning oil-pipe lines. 1,736,440; Nov. 19.
- Hall, Clifton C. (See Hastings, S. H., and Hall.)
- Hall, Cyrus L., Dallas, Tex. Article of furniture. 1,727,596; Sept. 10.
- Hall, David. (See Wohlgemuth, M. J., and Hall.)
- Hall, David W., McAlester, Okla. Support for weighing scales. 1,711,564; May 7.
- Hall, Edgar C., Los Angeles, Calif. Theft-protection door for buildings. 1,698,994; Jan. 15.
- Hall, Edward L. (See Rider, Herbert E., assignor.)
- Hall, Edwin T., El Paso, Tex., assignor to Sullivan Machinery Corporation. Feeding mechanism. 1,740,692; Dec. 24.
- Hall, Elbert J., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Shaft coupling. 1,698,160; Jan. 8.
- Hall, Elbert J., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Bus cowl. 1,727,823; Sept. 10.
- Hall, Elbert J., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Ventilating means for motor vehicles. 1,727,824; Sept. 10.
- Hall, Elwood C., Vienna, N. J. Controlling device for internal-combustion engines. 1,699,429; Jan. 15.
- Hall Engineering & Aircraft Construction Company. (See Hall, Charles S., assignor.)
- Hall, Ernest A., assignor to The Hall Manufacturing Company, Toledo, Ohio. Supporting standard for cylinder hones. 1,723,160; Aug. 6.
- Hall, Ernest E., Pleasanton, Calif. Safety shield for automobile windshields. 1,733,371; Oct. 29.
- Hall, Ernest M. (See Prowse, F. J., Robinson, Hall, and Fleming.)
- Hall, Everett J., assignor to Metals Disintegrating Company, Inc., Elizabeth, N. J. Machine for making commutator brushes and the like. 1,728,273; Sept. 17.
- Hall, Frank A., & Sons. (See McIntosh, Burnett, assignor.)
- Hall, Frank B., jr., New York, N. Y. Wall-light casing. Des. 77,408; Jan. 8.
- Hall, Frank W., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating hydrocarbon oils. 1,700,479; Jan. 29.
- Hall, Frank W., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Revivifying fuller's earth. 1,709,261; Apr. 16.
- Hall, Frederick M., Pasadena, assignor to F. L. Barnes and W. Stewart, Los Angeles, Calif. Control for continuous projectors. 1,701,564; Feb. 12.
- Hall, Frederick W., Kensington, assignor to Hall Telephone Accessories (1928) Limited, London, England. Coin-collecting means for telephone services and the like. 1,730,422; Oct. 8.
- Hall, Fritz S., East Boston, Mass. Window latch. 1,704,601; Mar. 5.
- Hall, George L., St. Petersburg, Fla. Hub cap. Des. 79,653; Oct. 22.
- Hall, George R., Waterville, Kans. Awning. 1,740,400; Dec. 17.
- Hall, George T., Weatherford, Tex. Combination stove. 1,721,445; July 16.
- Hall, George W., Jackson, Miss. Cotton-gin rib. 1,697,562; Jan. 1.
- Hall, Hartwell & Co. (See Hunter, Ralph, assignor.)
- Hall, Hartwell & Co. (See McKay, Joseph, assignor.)
- Hall, Harvey H., Arvada, Colo. Parking device for automobiles. 1,728,407; Sept. 17.
- Hall, James A., Los Angeles, Calif., assignor to Super-Refined Metals Corporation. Steel rolling-mill bearing. 1,727,505; Sept. 10.
- Hall, James H., assignor of one-half to A. O. Moe, Toppenish, Wash. Box making and lidding machine. 1,698,478; Jan. 8.
- Hall, James R., Winnfield, La. Oil-treating process and apparatus. 1,718,141; June 18.
- Hall, John C., Whiting, Ind. Golf bag. 1,737,967; Dec. 3.
- Hall, John H., and J. S. Comerford, assignors to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Air-toughened alloy steel. 1,732,202; Oct. 15.
- Hall, John L., San Diego, Calif. Electric-socket plug. 1,733,797; Oct. 29.
- Hall, Jonathan, Emo, Ontario, Canada. Coiler. 1,704,190; Mar. 5.
- Hall, Joseph E. (See Canott, M. L., and Hall.)
- Hall, Joseph M., Hamilton, Ontario, Canada. Shock absorber. 1,733,223; Oct. 29.
- Hall, Kathleen, New York, N. Y. Invalid appliance. 1,715,915; June 4.
- Hall, Keith M., Lac du Flambeau, Wis. Phonograph record. 1,704,432; Mar. 5.
- Hall, Lee, assignor to Federal Electric Company, Inc., Chicago, Ill. Sign. 1,738,895; Dec. 10.
- Hall, Leonard A., et al. (See Cardwell, William J., assignor.)
- Hall, Leslie S., Erie, Pa. Chaser and chaser holder. 1,701,775; Feb. 12.
- Hall Mfg. Company, The. (See Davis, Claud A., assignor.)
- Hall Manufacturing Company. (See Fiddelke, Harry J., assignor.)
- Hall Manufacturing Company, The. (See Hall, Ernest A., assignor.)
- Hall, Marion M., Port Nelson, Ontario, Canada. Necktie. 1,741,232; Dec. 31.
- Hall, Mary L. (See Keyes, George H., assignor.)
- Hall & McChesney Inc. (See McChesney, Donald S., assignor.)
- Hall, Milan W., deceased, New Rochelle, N. Y.; M. Hall, administratrix, assignor to E. B. Lapham, Hoboken, N. J. Internal-combustion motor. 1,707,005; Mar. 26.
- Hall, Milan W., New Rochelle, N. Y., deceased; M. Hall, administratrix, assignor to E. B. Lapham, Hoboken, N. J. Internal-combustion motor. 1,714,364; May 21.
- Hall, Minetta, administratrix. (See Hall, Milan W.)
- Hall-Neal Furnace Company. (See Neal, Harry W., assignor.)
- Hall, Otho N., Baltimore, Md. Lap-robe rack and umbrella case for automobiles. 1,697,763; Jan. 1.
- Hall, Peter P.-G., Philadelphia, Pa. Milling cutter. 1,717,880; June 18.
- Hall, Preston M., assignor to Taylor-Hall Welding Corporation, Worcester, Mass. Antiskid cross chain for vehicle wheels. 1,733,193; Oct. 29.
- Hall, Ralph R., Long Beach, and F. J. Knightlinger, Torrance, Calif. Heaving plug. 1,707,659; Apr. 2.
- Hall, Ralph R., and E. C. Culbertson, Ventura, Calif. Split casing spider. 1,709,570; Apr. 16.
- Hall, Randolph F., et al. (See Hall, R. F., and Phillips, assignors.)
- Hall, Randolph F., Ithaca, N. Y. Airplanes. 1,710,476; Apr. 23.
- Hall, Randolph F., Ithaca, N. Y. Airplane. 1,726,553; Sept. 3.
- Hall, Randolph F., Ithaca, N. Y., assignor of one-fourth to T. P. Hall, Wallingford, Conn., and one-fourth to P. Wilson, Ithaca, N. Y. Airplane. 1,723,778; Aug. 6.
- Hall, Randolph F., and C. A. Phillips, Ithaca, N. Y., assignors of three-fourths to said Randolph F. Hall and one-fourth to T. P. Hall, Wallingford, Conn. Airplane. 1,701,451; Feb. 5.
- Hall, Richard B., Madison, Wis. Exercising device. 1,735,538; Nov. 12.
- Hall, Richard E., Olean, N. Y., assignor, by mesne assignments, to The Arvey Manufacturing Co., Wilmington, Del. Felted fibrous container. 1,742,073; Dec. 31.
- Hall, Robert F., Wythall, near Birmingham, England. Glassware machinery. 1,720,598; July 9.
- Hall, Robert F., Schenectady, N. Y. Locomotive. 1,736,881; Nov. 26.
- Hall, Robert F., Wythall, near Birmingham, England. Machine for the manufacture of glass articles. 1,739,140; Dec. 10.
- Hall, Samuel N. (See Layne, M. E., and Hall.)
- Hall Telephone Accessories (1928) Limited. (See Hall, Frederick W., assignor.)
- Hall, Theodore, Brooklyn, N. Y. Control of arc lights for projectors. 1,701,481; Feb. 5.
- Hall, Theodore P., et al. (See Hall, Randolph F., assignor.)
- Hall, Theodore P., et al. (See Hall, R. F., and Phillips, assignors.)
- Hall, Wallace C., et al., trustees. (See Tyler, Tracy B.)
- Hall, Washington L., assignor to James H. Billington Company, Philadelphia, Pa. Tension-plate-adjusting screw for shuttles. 1,731,046; Oct. 8.
- Hall, Washington L., assignor to James H. Billington Company, Philadelphia, Pa. Shuttle. 1,737,370; Nov. 26.
- Hall, Wesley F., assignor, by mesne assignments, to Hanson-Van Winkle-Munning Company, Matawan, N. J. Electroplating machine. 1,715,357; June 4.
- Hall, William A., Portsmouth, Va. Enameled-plate cover structure. 1,731,131; Oct. 8.
- Hall, William E., jr., Castle Point, N. Y. Safety razor. 1,713,079; May 14.



- Hall, William G., Manila, P. I. Cane shredding and feeding mechanism. 1,735,389; Nov. 12.
- Hall, William J., and C. F. Willard, San Diego, Calif. Parachute for airplanes. 1,704,891; Mar. 12.
- Hall, William L., Chicago, Ill. Attachment for shapers. 1,706,156; Mar. 19.
- Hall, Willis L., San Francisco, Calif. Galley lock. Company, Philadelphia, Pa. Shuttle construction. 1,707,805; Apr. 2.
- Halla, Josip, Lagreb, Yugoslavia. Apparatus for winding cinematographic or photographic film bands. 1,716,774; June 11.
- Halladay, Calvin L., assignor to Saginaw Sheet Metal Parts Corporation, Saginaw, Mich. Trunk. 1,712,612; May 14.
- Hallam, Cecil A., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reclaiming metal portions of electrical apparatus. 1,722,372; July 30.
- Hallander, Josef A., assignor to Aktiebolaget Aeria, Stockholm, Sweden. Propeller arrangement for flying machines, airships, and the like. 1,719,225; July 2.
- Hallowell, Austin M., Wallington, England, assignor to Victor Talking Machine Company. Acoustic device. 1,731,460; Oct. 15.
- Hallberg, Claus W., Marion Ind. Clock case. Des. 77,483; Jan. 15.
- Halden, Frederick G., Jamaica, assignor to Postal Telegraph-Cable Company, New York, N. Y. Printing-telegraph system. 1,721,952; July 23.
- Halle Brothers Company, The. (See Weisenberg, William, assignor.)
- Halle, Simon, Colorado Springs, Colo., assignor to Edison Electric Appliance Company, Chicago, Ill. Electric water heater. 1,717,207; June 11.
- Hallenbeck, Charles V., Rifle, Colo. Tail-gate structure. 1,706,289; Mar. 19.
- Haller, Arnold, assignor to Aktiengesellschaft Brown Boveri & Co., Baden, Switzerland. Insulated bushing. 1,730,136; Oct. 1.
- Haller, Charles W., assignor to Wheeling Bronze Casting Company, Wheeling, W. Va. Pickling crate. 1,711,054; Apr. 30.
- Haller, Frank J., assignor to Stover Manufacturing & Engine Co., Freeport, Ill. Comminuting machine. 1,726,435; Aug. 27.
- Haller, Josef, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Indigoid dyestuffs. 1,709,977; Apr. 23.
- Hallett, George E. A. (See Angle, G. D., and Hallett.)
- Hallett, George E. A., assignor to General Motors Research Corporation, Detroit, Mich. Fluid seal for intermittently-registering conduits. 1,736,261; Nov. 19.
- Hallett, Liye G., Forest City, Iowa. Tuning device for radios. 1,720,648; July 9.
- Hallett, Thomas S., Beverly, Alberta, Canada. Auger. 1,719,546; July 2.
- Halliburton, Erle P., New Wilson, Okla. Method and apparatus for drilling wells, such as oil wells. 1,703,234; Feb. 26.
- Halliburton, Shine S., Lakehurst, N. J. Cleaning and washing device. 1,698,227; Jan. 8.
- Halliwell, John J., Tuckahoe, assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism. 1,713,655; May 21.
- Halliwell, John J., Tuckahoe, assignor to R. Hoe & Co., Inc., New York, N. Y. Web-associating mechanism. 1,714,870; May 28.
- Halliwell, John J., Tuckahoe, assignor, by mesne assignments, to R. Hoe & Co., Inc., New York, N. Y. Multi-unit printing machine. 1,717,381; June 18.
- Halliwell, John J., Tuckahoe, assignor to R. Hoe & Co., Inc., New York, N. Y. Folding mechanism. 1,722,373; July 30.
- Halliwell, John J., deceased, by Margaret A. Halliwell, Tuckahoe, executrix, assignor to R. Hoe & Co., Inc., New York, N. Y. Folding mechanism. 1,722,745; July 30.
- Halliwell, John J., deceased, by M. A. Halliwell, executrix, Tuckahoe, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y. Tension device for web rolls. 1,735,570; Nov. 12.
- Halliwell, John J., Tuckahoe, assignor to R. Hoe & Co., Inc., New York, N. Y. Perfecting press. 1,737,190; Nov. 26.
- Halliwell, Margaret A., executrix. (See Halliwell, John J.)
- Halliwell-Shelton Electric Corporation. (See Gross, Carl G., assignor.)
- Halliwell-Shelton Electric Corporation. (See Hendry, William F., assignor.)
- Halloran, Frank E., Brooklyn, N. Y. Radio receiving system. 1,719,178; July 2.
- Halloran, John J. (See Berndt, R. F., and Halloran.)
- Halloran, Ralph A. (See Terry, J. B., and Halloran.)
- Halloran, Ralph A., Berkeley, Calif., assignor, by mesne assignments, to Universal Oil Products Company, Chicago, Ill. Treatment of distillates from processes of cracking petroleum oils. 1,704,246; Mar. 5.
- Hallowell, Clifton C., Penfield, Pa., assignor to The S. S. White Manufacturing Company. Connecting bar for dentures. 1,704,856; Mar. 12.
- Hallowell, Clifton C., Drexel Hill, Pa., assignor to The S. S. White Dental Manufacturing Company. Artificial tooth. 1,734,253; Nov. 5.
- Hallowell, Edison, Horsforth, near Leeds, England. Device for propelling aircraft at high altitudes by direct fluid reaction. 1,725,914; Aug. 27.
- Hallowell, Howard T., assignor to Standard Pressed Steel Company, Jenkintown, Pa. Platform truck. 1,739,589; Dec. 17.
- Hallowell, Howard T., assignor to Standard Pressed Steel Co., Jenkintown, Pa. Metallic stool. 1,742,033; Dec. 31.
- Hallquist, Einar G. (See Sheehan, W. M., and Hallquist.)
- Hallquist, Einar G., Edwardsville, assignor to Commonwealth Steel Company, Granite City, Ill. Spring-equalizing arrangement. 1,703,525; Feb. 26.
- Hallquist, Einar G., Edwardsville, assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive-spring-equalizing arrangement. 1,703,526; Feb. 26.
- Hallquist, Einar G., Edwardsville, assignor to Commonwealth Steel Company, Granite City, Ill. Pilot coupler structure. 1,724,194; Aug. 13.
- Hallquist, Einar G., Edwardsville, assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Railway truck. 1,740,508; Dec. 24.
- Hallstead, Leon A., assignor to Koretec Air Meter Corporation, Buffalo, N. Y. Air-pressure gauge. 1,708,837; Apr. 9.
- Hallstream, Henning. (See Cross, F. L., and Hallstream.)
- Hallwood, Nathan A., Columbus, Ohio. Scale casing. Des. 78,391; Apr. 30.
- Hallwood, Nathan A., Columbus, Ohio. Scale casing. Des. 79,329; Sept. 3.
- Hallwood, Nathan A., Columbus, Ohio. Scale. 1,709,471; Apr. 16.
- Hallwood, Nathan A., Columbus, Ohio. Weight-indicating mechanism for scales. 1,729,106; Sept. 24.
- Hallwood, Nathan A., Columbus, Ohio. Scale. 1,736,079; Nov. 19.
- Hallwood, Nathan A., Columbus, Ohio, assignor to The Jacobs Bros. Co., Brooklyn, N. Y. Scale. 1,714,871; May 28.
- Halma, Julius, New York, N. Y. Bottle holder. 1,700,934; Feb. 5.
- Halmet, Elmer, Palo, Minn. Letter opener. 1,703,341; Feb. 26.
- Halperin, Herman, and K. W. Miller, Chicago, Ill. Cable-sheath bonding. 1,721,018; July 16.
- Halpern, Louis, New York, N. Y. Vibrating roller. 1,726,559; Sept. 3.
- Halprin, Martin, Brooklyn, N. Y. Shingle. 1,741,515; Dec. 31.
- Halse, Ernest, Bethlehem, Pa., assignor to Bethlehem Foundry and Machine Company. Roasting-furnace construction. 1,732,843; Oct. 22.
- Halse, Ernest, Bethlehem, Pa., assignor to Bethlehem Foundry and Machine Company. Roasting-furnace construction. 1,732,844; Oct. 22.
- Halset, Christ J., and J. W. Hose, Chicago, Ill. Ice-cream former. 1,718,555; June 25.
- Halsey, Charles W. (See Otto, Henry J., assignor.)
- Halsey, Charles W., Evansville, Ind. Bottle-cap lifter. 1,741,294; Dec. 31.
- Halstead, James W., assignor to Farmers Manufacturing Company, Norfolk, Va. Berry box. 1,715,454; June 4.
- Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Suction control for cigar-wrapper carriers. 1,721,554; July 25.
- Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Bunch shaper for cigar machines. 1,729,440; Sept. 24.
- Halstead, Stanley M., and A. I. Wickland, San Jose, Calif. Impregnating running water with detergents. 1,720,326; July 9.
- Halsted, Arthur, Clarendon, Va. Effecting soaring flights and aeroplanes therefor. 1,737,191; Nov. 26.
- Halsted, Mary, Ormond, Fla. Pan lifter. 1,735,500; Nov. 12.
- Halter, Georges, Paris, France. Apparatus for binding packing cases and similar objects by means of hoops. 1,712,037; May 7.
- Halvorsen, Arthur L., Perth Amboy, and P. M. Travis, Ridgewood, assignors to The Emulsion Process Corporation, Jersey City, N. J. Making asphalt emulsions. 1,714,982; May 28.
- Halvorsen, Axel I. S., assignor to McCormick Brothers Company, Albany, Ind. Support for flexible doors of kitchen cabinets. 1,697,646; Jan. 1.
- Halvorsen, Birger F., assignor to Norsk Hydroelektrisk Kvaestofaktieselskab, Oslo, Norway. Production of alkali-metal silicates that are soluble in water. 1,718,292; June 25.
- Halvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Fluid compressor. 1,707,304; Apr. 2.
- Halvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Compressor-unloading means. 1,708,171; Apr. 9.
- Halvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Compressor. 1,708,172; Apr. 9.
- Halvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Air-lift pump. 1,717,448; June 18.
- Halvorsen, Olaf, and S. F. Kiesling, Chicago, Ill. Printing and stenciling device. 1,733,876; Oct. 29.
- Halvorsen, Olaf, and W. T. Seibels, assignors to W. M. Blair, Chicago, Ill. Pass case. Re17,327; June 18.



- Halvorsen, Ole G., Chicago, Ill. Device for circulating brine. 1,727,974; Sept. 10.
- Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Newspaper-stuffing machine. 1,713,123; May 14.
- Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Clutch device. 1,715,916; June 4.
- Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Feeding device. 1,716,126; June 4.
- Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Feeding mechanism. 1,726,021; Aug. 27.
- Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Signaling, indicating, stopping, and starting device. 1,741,564; Dec. 31.
- Halvorson, Cromwell A. B., Lynn, Mass., assignor to General Electric Company. Lamp fixture. Des. 79,189; Aug. 13.
- Halvorson, Cromwell A. B., Lynn, Mass., assignor to General Electric Company. Lamp globe. Des. 80,225; Dec. 31.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Motion-picture projector. 1,699,108; Jan. 15.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Traffic signal. 1,711,477; Apr. 30.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Light reflector. 1,711,478; Apr. 30.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Light-projecting device. 1,711,479; Apr. 30.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Light-projecting device. 1,711,480; Apr. 30.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Light fixture and accessory. 1,713,227; May 14.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Searchlight. 1,718,927; June 25.
- Halvorson, Cromwell A. B., jr., Lynn, Mass., assignor to General Electric Company. Arc-lamp equipment. 1,718,928; June 25.
- Halvorson, Cromwell A. B., jr., and H. W. Vickery, Lynn, Mass., assignors to General Electric Company. Signal controller. 1,725,635; Aug. 20.
- Halvorson, Gaylord H., Duluth, Minn. Crucible. 1,720,827; July 9.
- Halverson, Isadore M. (See Feinberg, A., and Halverson.)
- Halverson, Olaf, Warren, Minn. Calendar. 1,697,912; Jan. 8.
- Ham, Lucius G., Cairo, Ga. Scrape removing and collecting implement. 1,730,458; Oct. 8.
- Ham, Newell E., and W. H. Needham, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Dobby for looms. 1,726,823; Sept. 3.
- Ham, Robert L., Boston, Mass., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine shuttle. 1,714,981; May 28.
- Ham, Robert L., Boston, Mass., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine shuttle. 1,737,418; Nov. 26.
- Hamaker, Rex G., Houston, Tex. Fluid dispenser. 1,711,782; May 7.
- Hamaker, Sidney U., assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Gear housing and bearing. 1,699,565; Jan. 22.
- Haman, George W., and O. G. Culver, La Porte, Ind. Automatic stop device. 1,738,103; Dec. 3.
- Hamann, Fred, et al. (See Jackson, M. M., assignor, Walgren, and Britton.)
- Hamberger, Paul, Paris, France. Wearing apparel. 1,713,433; May 14.
- Hamblen, Jennings B., assignor to Standard Oil Company, Whiting, Ind. Tank gauge. 1,726,296; Aug. 27.
- Hambleton, Hugh H., Greymouth, assignor of one-half to A. A. Baldwin, Hataitai, Wellington, New Zealand. Pulley block. 1,730,272; Oct. 1.
- Hamblin, Fred B., assignor to The Weightograph Company, St. Louis, Mo. Scale. 1,701,921; Feb. 12.
- Hamblin, Fred B., assignor to The Weightograph Company, St. Louis, Mo. Scale. 1,735,571; Nov. 12.
- Hamburger, Mark, and C. H. Fogle, Baltimore, Md.; said Fogle assignor to said Hamburger. Apparatus for producing rolls of nonfraying material. 1,707,611; Apr. 2.
- Hamburger, Robert, S. Kaesz, and F. Hartig, Freudenthal, Czechoslovakia, assignors, by mesne assignments, to Standard Brands Incorporated, Dover, Del. Manufacturing yeast. 1,733,962; Oct. 29.
- Hamby, Arthur W. (See Conder, Thomas L., assignor.)
- Hamby, Arthur W. (See Lee, Albert W., assignor.)
- Hamden Tool & Metal Works. (See Williams, J. A., and Le Quornik, assignors.)
- Hamel, Charles L., Paris, France. Repetition of telegraphic signals. 1,712,763; May 14.
- Hamel, Edward, Wilcox, Saskatchewan, Canada. Oil can. 1,709,014; Apr. 16.
- Hamel, Otto C., Wyomissing, Pa., assignor to Meinig Hosiery Co., Reading, Pa. Stocking. Des. 79,025; July 23.
- Hamel, Otto C., Wyomissing, assignor to Meinig Co., Reading, Pa. Stocking. Des. 79,076; July 30.
- Hamel, Otto C., Wyomissing, assignor to Meinig Hosiery Co., Reading, Pa. Stocking. Des. 79,077; July 30.
- Hamel, Otto C., Wyomissing, assignor to Meinig Hosiery Co., Reading, Pa. Stocking. Des. 79,078; July 30.
- Hamel, Otto C., Wyomissing, assignor to Meinig Hosiery Co., Reading, Pa. Stocking. Des. 79,079; July 30.
- Hamel, Otto C., Wyomissing, assignor to Meinig Hosiery Co., Reading, Pa. Stocking. Des. 79,080; July 30.
- Hamel, Otto C., Wyomissing, assignor to Meinig Hosiery Co., Reading, Pa. Stocking. Des. 79,232; Aug. 20.
- Hamel, William W., New York, N. Y., assignor to Advertising Samplers, Inc., Wilmington, Del. Advertising device. 1,719,606; July 2.
- Hamel, William W., New York, N. Y., assignor to Advertising Samplers, Inc., Wilmington, Del. Advertising or display device. 1,734,575; Nov. 5.
- Hamer, Clarence, Iliou, N. Y., assignor to Remington Arms Company, Inc. Making and repairing printing rollers. 1,738,995; Dec. 10.
- Hamer, Louis, Montreal, Quebec, Canada. Steering-wheel electric contact. 1,718,903; June 25.
- Hamer, Thurston M., assignor to Western Electric Company, Incorporated, New York, N. Y. Toll-service telephone-exchange system. 1,705,917; Mar. 19.
- Hamer, William D., Long Beach, Calif. Automatic control for steam boilers. 1,729,107; Sept. 24.
- Hamerstadt, William D., assignor to Rockwood Manufacturing Company, Indianapolis, Ind. Pulley construction. 1,708,269; Apr. 9.
- Hames, Frederick W., Atlanta, Ga. Syringe. 1,728,542; Sept. 17.
- Hamey, Amos C., North Sydney, New South Wales, Australia. Milling and/or grinding machine. 1,723,546; Aug. 6.
- Hamey, Amos C., and J. Stoneham, Sydney, New South Wales, Australia. Crushing and grinding machine. 1,706,290; Mar. 19.
- Hamill, Fred B., et al., executors. (See Heinz, Julius A.)
- Hamiltonoff, Simon A., assignor to W. Zachs and J. Safran, Hartford, Conn. Bed-extension support for davenport. 1,723,235; Aug. 6.
- Hamilton Aero Manufacturing Company. (See Nelson, Arvid, assignor.)
- Hamilton, Alexander C., et al. (See Freer, Phelps M., assignor.)
- Hamilton, Alexander C., Detroit, Mich., assignor, by mesne assignments, to Relay Motor Products Corporation, Bridgeport, Conn. Motor-vehicle construction. 1,697,239; Jan. 1.
- Hamilton, Alice M., and W. C. Hamilton, Pacific Beach, Calif.; said W. C. Hamilton, assignor to said A. M. Hamilton. Advertising structure. Des. 78,287; Apr. 16.
- Hamilton, Ashton. (See Howard, Albert L., assignor.)
- Hamilton, Baxter P. (See Affel, H. A., Hamilton, Thorp, and Clapp.)
- Hamilton Beach Mfg. Co. (See Bangs, E. Q., and Ernst, assignors.)
- Hamilton Beach Mfg. Co. (See Moss, Edward, assignor.)
- Hamilton Beach Manufacturing Company. (See Myers, Thomas B., assignor.)
- Hamilton Beach Mfg. Co. (See Robinson, Patrick H., assignor.)
- Hamilton Beach Manufacturing Company. (See Robinson, P. H., Nielsen, and Moss, assignors.)
- Hamilton, Brown Shoe Company. (See Sehl, Eugene, assignor.)
- Hamilton Caster & Manufacturing Company, The. (See Morrison, Joseph C., assignor.)
- Hamilton, Charles E., Los Angeles, Calif., assignor to E. Lane, P. Mendelson, and C. Mendelson, New York, N. Y. Flatwork ironer. 1,740,980; Dec. 24.
- Hamilton, Curtis B., Walden, Colo. Reflector for automobile headlights. 1,730,571; Oct. 8.
- Hamilton, E. A. (See Spidel, Arthur S., assignor.)
- Hamilton, Edward E., Westfield, Mass. Sign. 1,703,857; Feb. 26.
- Hamilton, Ernest O., Columbus, Ohio. Starting box. 1,723,779; Aug. 6.
- Hamilton, Francis F., Indianapolis, Ind. Exhaust muffler. 1,709,217; Apr. 16.
- Hamilton, Francis F., Indianapolis, Ind. Muffler. 1,712,210; May 7.
- Hamilton, Francis F., Indianapolis, Ind. Making spark plugs. 1,726,264; Aug. 27.
- Hamilton, Frederick, Providence, R. I. Illuminating means. 1,740,588; Dec. 24.
- Hamilton, George H., assignor to American Seating Company, Grand Rapids, Mich. Lighting means. Re17,485; Nov. 12.
- Hamilton, George H., Grand Rapids, and R. A. White, Walker Township, Kent County, assignors to American Seating Company, Grand Rapids, Mich. Seat structure. 1,734,576; Nov. 5.
- Hamilton, Henry A., Jersey City, N. J. Milk-bottle crate. 1,703,733; Feb. 26.
- Hamilton, Hugo, San Diego, Calif. Child's seat attachment for toilet seats. 1,733,080; Oct. 22.
- Hamilton, J. W., et al. (See Nordrum, George H., assignor.)
- Hamilton, James C., Arlington, assignor of one-half to W. H. Hastings, Malden, Mass. Article holder. 1,728,608; Sept. 17.



- Hamilton, James T., Berkeley, Calif. Water coolers. 1,709,978; Apr. 23.
- Hamilton, James T., Berkeley, Calif. Refrigerating coil. 1,734,127; Nov. 5.
- Hamilton, Jay H. (See Vaughan, C. H., and Hamilton.)
- Hamilton, Joe W., Atlanta, Ga. Electrical connector. 1,735,316; Nov. 12.
- Hamilton, John R. (See Lowe, E. A., and Hamilton.)
- Hamilton, Laurentine S., Seattle, Wash. Egg opener. 1,727,465; Sept. 10.
- Hamilton, Lucius V., Indianapolis, Ind. Weather strip. 1,732,470; Oct. 22.
- Hamilton Manufacturing Company. (See Poll, Louis, assignor.)
- Hamilton Manufacturing Company, The. (See Rowley, Harry, assignor.)
- Hamilton, Paul H., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Thermostat mechanism. 1,726,954; Sept. 3.
- Hamilton, Paul H., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Heater. 1,730,423; Oct. 8.
- Hamilton, Paul H., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Thermostatic valve. 1,737,755; Dec. 3.
- Hamilton, Peter J., and L. F. Meunier, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y. Hose coupling. 1,738,996; Dec. 10.
- Hamilton, Pinckney W., et al. (See Brill, Jules J., assignor.)
- Hamilton Press & Machinery Company, The. (See Byrlein, Arthur A., assignor.)
- Hamilton, Raymond N., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Napkin. Des. 77,766; Feb. 19.
- Hamilton, Robert E., Louisville, Ky. Safety razor. 1,721,113; July 16.
- Hamilton, Ronald M., Malvern, England. Laundry transport receptacle. 1,703,620; Feb. 26.
- Hamilton-Ross Factories Incorporated. (See Bean, Dixon L., assignor.)
- Hamilton-Ross Factories Incorporated. (See Rath, Felix L., assignor.)
- Hamilton, Rush, Piedmont, assignor to Standard Gas Engine Co., Oakland, Calif. Drawbar. 1,701,107; Feb. 5.
- Hamilton, Rush, Piedmont, assignor to Standard Gas Engine Co., Oakland, Calif. Transmission assembly. 1,722,665; July 30.
- Hamilton, Rush, Piedmont, assignor to Standard Gas Engine Co., Oakland, Calif. Gear and bearing assembly for Fordson tractors. 1,734,375; Nov. 5.
- Hamilton, W. A. (See Nemes, Mike J., assignor.)
- Hamilton Watch Company. (See Schwab, M. E., and Wuischpard, assignors.)
- Hamilton, William C. (See Hamilton, Alice M., and W. C.)
- Hamilton, William S. H. (See Krape, R. D., and Hamilton.)
- Hamilton, Winfield C., and C. E. Sims, assignors to American Steel Foundries, Chicago, Ill. Steel. 1,721,555; July 23.
- Hamlett, William J., Silver City, N. Mex. Hinge. Des. 78,203; Apr. 9.
- Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Wardrobe hand luggage. 1,730,137; Oct. 1.
- Hamlin, Philip, Quincy, Mass. Pump and compressor. 1,716,127; June 4.
- Hamlin, Ray L., Stockton, Calif. Sand conditioner. 1,723,615; Aug. 6.
- Hamm, Herbert A., Pasadena, Calif. Adjustable glider for furniture legs. 1,714,776; May 28.
- Hamm, Herbert A., Pasadena, and R. P. Miller, San Gabriel, Calif. Saw-tooth roof structure. 1,737,371; Nov. 26.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adlake Company. Window latch. 1,700,093; Jan. 22.
- Hamm, William S., Hubbard Woods, Ill., assignor to The Adlake Company. Window latch. 1,700,094; Jan. 22.
- Hamm, William S., Hubbard Woods, assignor to The Adlake Company, Chicago, Ill. Ventilator. 1,708,133; Apr. 9.
- Hamm, William S., Hubbard Woods, Ill. Vehicle ventilator. 1,708,134; Apr. 9.
- Hamman, George C., Cincinnati, Ohio. Arch support. 1,716,958; June 11.
- Hammarlund Manufacturing Company, The. (See Scott, Beverley R., assignor.)
- Hammel, Jack R. (See Bucher, V. L., and Hammel.)
- Hammer, Anthony J., assignor to W. J. and W. H. Preiss, St. Louis, Mo. Fuel economizer and smoke consumer. 1,722,700; July 30.
- Hammer, Anthony J., St. Louis County, Mo., assignor to International Smoke Burner Co., Dover, Del. Device for promoting combustion. 1,740,457; Dec. 24.
- Hammer-Bray Company. (See Gardner, Joseph B., assignor.)
- Hammer-Bray Company. (See Gericich, Frederick A., assignor.)
- Hammer-Bray Company. (See Gericich, F. A., and Berry, assignors.)
- Hammer, Charles, Hollis Court Boulevard, assignor to American Metal Cap Company, Brooklyn, N. Y. Self-sealing rotatable vacuum cap. 1,716,851; June 11.
- Hammer, Charles, Hollis Court Boulevard, assignor to American Metal Cap Company, Brooklyn, N. Y. Rotatable vacuum-sealed cap. 1,718,459; June 25.
- Hammer, Charles, Hollis Court Boulevard, assignor to American Metal Cap Company, Brooklyn, N. Y. Method and apparatus for making caps. 1,728,274; Sept. 17.
- Hammer, Charles H. (See Morgan, M., and Hammer.)
- Hammer, Edwin W., East Orange, N. J., assignor to Cline Electric Manufacturing Company, Chicago, Ill. Making high-speed pasters. 1,738,002; Dec. 3.
- Hammer, Ferdinand A., Bondi, near Sydney, assignor of one-half to D. Douglass, Sydney, Australia. Construction of boats. 1,698,792; Jan. 15.
- Hammer, Forrester L., Branford, Conn. Strainer. 1,709,472; Apr. 16.
- Hammer, Peter. (See Fusch, O. O., and Hammer.)
- Hammer, Ralph R., Roslindale, Mass. Waterproof pocket. 1,712,109; May 7.
- Hammer, Samuel, assignor to United Metal Box Co., Inc., Brooklyn, N. Y. Knock-out for electric junction boxes, switch boxes, etc. 1,721,593; July 23.
- Hammer, Samuel, assignor to United Metal Box Co., Inc., Brooklyn, N. Y. Mounting for electric meters. 1,728,543; Sept. 17.
- Hammer, Willibald, assignor to the firm Zellweger A. G., Uster, Switzerland. Device for separating and supplying threads particularly to warp-bedding machines. 1,716,549; June 11.
- Hammerle, Franklin T., Detroit, Mich. Package cutter and container. 1,722,086; July 23.
- Hammerly, Herman J., Wallingford, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed switch construction. 1,727,767; Sept. 10.
- Hammerly, Herman J., Wallingford, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 1,740,858; Dec. 24.
- Hammerly, Richard, Baldwin, N. Y. Electric-light fixture. 1,730,087; Oct. 15.
- Hammermeister, Otto. (See Moecker, H., jr., and Hammermeister.)
- Hammermeister, Otto. (See Moecker, H., jr., Thompson, and Hammermeister.)
- Hammermill Paper Company. (See Johnsen, Bjarne, assignor.)
- Hammerstein, Arthur, New York, N. Y. Self-closing stopper for receptacles. 1,707,660; Apr. 2.
- Hammerstein, Arthur, New York, N. Y. Self-sealing closure for receptacles. 1,720,788; July 16.
- Hammerstrom, Karl R. (See Vold, L. H., and Hammerstrom.)
- Hammerstrom, Norman E., Galesburg, Ill. Cigar and cigarette lighter. 1,740,089; Dec. 17.
- Hammes, Peter K., Kansas City, Mo. Rotary display stand. 1,708,759; Apr. 9.
- Hammet, Benjamin J., Allendale, S. C. Container for tooth paste and tooth brushes. 1,710,642; Apr. 23.
- Hammett, Henry, Detroit, Mich. Swimming paddle. 1,717,026; June 11.
- Hammett, Joseph L., Atlanta, Ga. Ticket case. 1,701,565; Feb. 12.
- Hammill, Paul J. A., assignor of one-third to I. Green and one-third to V. P. H. Green, Hamilton, Ontario, Canada. Adjustable metal window screen. 1,735,501; Nov. 12.
- Hammon, James H., Vincennes, Ind. Spectacle lens. 1,740,298; Dec. 17.
- Hammond, Cecil F., and W. Shackleton, London, England. Apparatus for dyeing or washing textiles. 1,714,777; May 28.
- Hammond Clock Company, The. (See Hammond, Laurens, assignor.)
- Hammond, Frank S., Elizabeth, N. J. Washer. 1,723,163; Aug. 6.
- Hammond, Grant, New Haven, Conn., assignor to Fuel Development Corporation, Wilmington, Del. Fuel and making the same. 1,699,355; Jan. 15.
- Hammond, Grant, Whitneyville, Conn., assignor to Fuel Development Corporation. Fuel. 1,713,530; May 21.
- Hammond, Guy L., and L. H. Messenger, jr., assignors to The Black Rock Manufacturing Company, Bridgeport, Conn. Machine for cutting belts and rings from tubular stock. 1,721,905; July 23.
- Hammond, John H. (See Chaffee, Emory L., assignor.)
- Hammond, John H. (See Purington, Ellison S., assignor.)
- Hammond, John H., jr. (See Tenor, Albert D., assignor.)
- Hammond, John H., jr. (See Unkles, Edward D., assignor.)
- Hammond, John H., jr., Gloucester, Mass. System for the transmission of radiant energy. Rel. 2,262; Apr. 9.
- Hammond, John H., jr., Gloucester, Mass. Automatic indicating means for odometers. 1,698,092; Jan. 8.
- Hammond, John H., jr., Gloucester, Mass. Ship stabilizer. 1,700,406; Jan. 29.
- Hammond, John H., jr., Gloucester, Mass. Tremolo attachment. 1,702,079; Feb. 12.
- Hammond, John H., jr., Gloucester, Mass. Modulating reflector adjustable as to normal position. 1,702,080; Feb. 12.
- Hammond, John H., jr., Gloucester, Mass. Organ. 1,702,773; Feb. 19.
- Hammond, John H., jr., Gloucester, Mass. Antenna mounting for torpedoes. 1,705,474; Mar. 19.
- Hammond, John H., jr., Gloucester, Mass. Photo-electric control system for pipe organs. 1,706,731; Mar. 26.
- Hammond, John H., jr., Gloucester, Mass. Automatic player piano having tone modulators. 1,713,124; May 14.



- Hammond, John H., jr., Gloucester, Mass. Supplementary sound-control means. 1,713,125; May 14.
- Hammond, John H., jr., Gloucester, Mass. Tone modulators operating at varying rates of speed. 1,713,126; May 14.
- Hammond, John H., jr., Gloucester, Mass. Harmonic organ. 1,722,977; July 30.
- Hammond, John H., jr., Gloucester, Mass. Piano shutter. 1,722,978; July 30.
- Hammond, John H., jr., Gloucester, Mass. Expression device. 1,722,979; July 30.
- Hammond, John H., jr., Gloucester, Mass. Sustaining musical tones. 1,722,980; July 30.
- Hammond, John H., jr., Gloucester, Mass. Musical instrument. 1,722,981; July 30.
- Hammond, John H., jr., Gloucester, Mass. Organ pipe. 1,722,982; July 30.
- Hammond, John H., jr., Gloucester, Mass. Regenerative chimes. 1,722,983; July 30.
- Hammond, John H., jr., Gloucester, Mass. System and method of television. 1,725,710; Aug. 20.
- Hammond, John H., jr., Gloucester, Mass. Combination cigarette case and lighter. 1,729,108; Sept. 24.
- Hammond, John H., jr., Gloucester, Mass. Lubrimeter. 1,730,138; Oct. 1.
- Hammond, John H., jr., Gloucester, Mass. System of secret radiant telephony and telegraphy. 1,740,559; Dec. 24.
- Hammond, Karl R., Springfield, assignor to The Shadex Company, West Springfield, Mass. Window shade. 1,700,676; Jan. 29.
- Hammond, Laurens, Winnetka, assignor to The Hammond Clock Company, Chicago, Ill. Alternating current clock. 1,719,805; July 2.
- Hammond, Milton B., assignor to Wolverine Bumper & Specialty Company, Grand Rapids, Mich. Bumper for automobiles. 1,706,061; Mar. 19.
- Hammond, Talbot H., Wellsburg, W. Va. Paper bag. 1,716,818; June 11.
- Hammond, William D., Los Angeles, Calif. Tree-covering tent. 1,711,843; May 7.
- Hammond, William P. (See Messenger, Jack E., assignor.)
- Hammond, William P., East Orange, N. J. Spare-tire carrier. 1,720,415; July 9.
- Hampden Glazed Paper & Card Company. (See Fowler, William S., assignor.)
- Hampden Glazed Paper & Card Company. (See Kahrman, Robert C., assignor.)
- Hampden Manufacturing Co. (See Hemenway, George C., assignor.)
- Hampe, Robert, Helmstedt, Germany. Yarn carrier. 1,716,128; June 4.
- Hamper, Henry D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Endless conveyer. 1,716,633; June 11.
- Hampshire Implement Company. (See Smith, Herbert D., assignor.)
- Hampson, Charles G., New York, N. Y. Machine for producing figured paper. 1,741,697; Dec. 31.
- Hampson, Charles G., New York, N. Y. Soft rag printing roller. 1,741,698; Dec. 31.
- Hampson, John, assignor to The Shoulder Hoe (Hampson's Patents) Company Limited, London, England. Agricultural implement. 1,719,400; July 2.
- Hampson, Lewis, Miami, Fla. Fishhook. 1,706,881; Mar. 26.
- Hampton, Alfred, et al. (See Bridler, John J., assignor.)
- Hampton, Charles W., Clarkston, Ga. Key protector. 1,700,045; Jan. 22.
- Hampton, Edwin E., and G. A. Scott, Ventura, Calif. Valve for slush pumps. 1,721,114; July 16.
- Hampton, Francis H., Salt Lake City, Utah. Wood-chopping device. 1,701,001; Feb. 5.
- Hampton, Walton L., Louisville, Ky., and V. A. Tracy, Salt Lake City, Utah. Label-pasting device. 1,740,981; Dec. 24.
- Hampton, Weldon O., and E. J. Thompson, assignors to The Delta-Star Electric Company, Chicago, Ill. Switch. 1,711,229; Apr. 30.
- Hampton, Willard F., Hutchinson, Kans. Latch for vehicle or house doors. 1,708,444; Apr. 9.
- Hampton, William H. (See Davis, W. N., Hampton, and Klemgard.)
- Hampton, William H., Portland, Oreg. Treating shale and other bituminiferous solids. 1,703,192; Feb. 26.
- Hampton, William H., Portland, Oreg. Process of and apparatus for treatment of bituminous materials. 1,707,769; Apr. 2.
- Hamre, Allie H., Sedro Woolley, Wash. Device for picking fruit. 1,727,286; Sept. 3.
- Hamren, Eric O., Milwaukee, assignor to Chain Bolt Company, Milwaukee, Wis. Water-supply system and valve therefor. 1,712,224; May 7.
- Hamsing, Carl A., Merrill, Wis. Slidable automobile seat. 1,718,042; June 18.
- Hamwi, Ernest, St. Louis, Mo. Ice-cream cone. Des. 79,589; Oct. 15.
- Hamwi, Ernest, St. Louis, Mo. Edible receptacle. Des. 79,590; Oct. 15.
- Han, John E. S., Shanghai, China. Titration apparatus. 1,723,853; Aug. 6.
- Hanahan, Marion L. (See Booge, J. E., and Hanahan.)
- Hann, Edward, Houston, Tex. Electric-motor-conveyor-trackway. 1,722,291; July 30.
- Hanauer, Darwin, La Grange, Ill., assignor to The Rome Company, Inc. Detachable cover for bed springs. 1,699,498; Jan. 15.
- Hanauer, Darwin, La Grange, Ill., assignor to Kinney Rome Company, Folding bed. 1,718,923; June 25.
- Hanauer, Henry J., Milwaukee, Wis. Producing cut-outs. 1,712,269; May 7.
- Hanawalt, Charles H., Burbank, Calif. Adjustable fireplace super-fire back. 1,718,859; June 25.
- Hance, Edward B., Camden, N. J. Ironing-board table. 1,735,078; Nov. 12.
- Hance, Lawrence W. (See Glaenger, H., and Hance.)
- Hance, Lawrence W., Philadelphia, Pa. Cylinder saddle for high-pressure articulated locomotives. 1,718,142; June 18.
- Hancock, George W., San Francisco, Calif. Paper-dispensing device. 1,718,143; June 18.
- Hancock, Harry H., deceased; H. A. Sawyer, administrator, Lynn, Mass. Composing stick. 1,727,975; Sept. 10.
- Hancock, John S. (See MacMenigall, William H., assignor.)
- Hancock, Roy S. (See Kaiser, H. E., and Hancock.)
- Hancock, Wayne R., et al. (See Riddle, Zelig, assignor.)
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Cotton-press-door mechanism. 1,706,663; Mar. 26.
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Huller and opener. 1,706,664; Mar. 26.
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Cotton cleaner. 1,714,953; May 28.
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Cotton-gin feeder. 1,719,294; July 2.
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Air and cotton separator. 1,721,778; July 23.
- Hancock, William L., assignor to The Murray Company, Dallas, Tex. Ginning cotton. 1,725,268; Aug. 20.
- Hancock, William L., and J. Blewett, assignors to The Murray Company, Dallas, Tex. Cotton condenser. 1,697,647; Jan. 1.
- Hand, Albert E., Olean, N. Y. Boiler-tube puller. 1,735,272; Nov. 12.
- Hand, Augustin J., assignor to California Corrugated Culvert Company, Berkeley, Calif. Automatic electric welding apparatus. 1,707,433; Apr. 2.
- Hand, Augustin J., assignor to California Corrugated Culvert Co., Berkeley, Calif. Making welded spiral pipe. 1,739,757; Dec. 17.
- Hand, Carl N., Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Manufacture and use of insecticides. 1,734,519; Nov. 5.
- Hand, Carl N., T. W. Bartram, and A. H. Maude, Nitro, W. Va., assignors to The Rubber Service Laboratories Co., Akron, Ohio. Manufacture of acetaldehyde. 1,738,649; Dec. 10.
- Hand, Carl N., and C. E. Smith, Nitro, W. Va., assignors to The Rubber Service Laboratories Co., Akron, Ohio. Manufacturing thioureas. 1,724,580; Aug. 13.
- Hand, Eoline R., Toledo, Ohio. Tide indicator. 1,731,377; Oct. 15.
- Hand, George, Laurel Springs, N. J. Airplane for night advertising. 1,698,721; Jan. 15.
- Hand, Jesse H., Chicago, Ill. Change-speed gearing. 1,713,080; May 14.
- Hand, Jesse H., Chicago, Ill. Change-speed gearing. 1,731,338; Oct. 15.
- Hand, Leslie T. (See Korndorfer, C. J., and Hand.)
- Hand, Michael J., New York, N. Y. Automatic gate for railroads. 1,730,972; Oct. 8.
- Handis, Joseph. (See Wilson, William, assignor.)
- Handl, Barbara M., Manitowoc, Wis. Baby-mattress envelope. 1,726,224; Aug. 27.
- Handlan, Alexander H. (See Brinkmeyer, E. G., and Rolfes, assignors.)
- Handlan, Alexander H. (See Rolfes, George H., assignor.)
- Handlan, Alexander H., St. Louis, Mo. Lantern. 1,701,182; Feb. 5.
- Handlan, Alexander H., St. Louis, Mo. Signal lamp. 1,735,572; Nov. 12.
- Handler-Brown Heater Company. (See Brown J. A., and Handley, assignors.)
- Handley, George F., Glendale, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,722,142; July 23.
- Handley, William J. (See Brown, J. A., and Handley.)
- Hands, Howard A. (See Knowland, T. M., and Hands.)
- Handschiegl, Bessie. (See Handschiegl, Max, assignor.)
- Handschiegl, Max, Hollywood, assignor to B. Handschiegl, Los Angeles, Calif. Simplified double-exposure method. 1,697,815; Jan. 1.
- Handy, Arthur E. (See Margles, S. G., and Handy.)
- Handy Governor Corporation. (See Hufford, Raymond, assignor.)
- Handy, Lucien H., Oakland, assignor to Handy Self-Cleaning Flush Valve Co., San Francisco, Calif. Flush valve. 1,735,244; Nov. 12.
- Handy, Royal S., Kellogg, Idaho, assignor to Patino Mines & Enterprises Consolidated Inc., New York, N. Y. Concentration of ores. 1,737,716; Dec. 3.
- Handy, Royal S., Kellogg, Idaho, and R. R. Beard, Lallagua, Bolivia, assignors to Patino Mines & Enterprises Consolidated Inc., New York, N. Y. Flotation of cassiterite. 1,737,717; Dec. 3.



- Handy Self-Cleaning Flush Valve Co. (See Handy, Lucien H., assignor.)
- Handy Things Manufacturing Company. (See Des Enfants, Edward, Sr., assignor.)
- Hänel, Paul, Dresden-A, Germany. Hydraulic pot press. 1,736,262; Nov. 19.
- Hanemann, Heinrich, Berlin-Charlottenburg, assignor to Edelgussverband G. m. b. H., Berlin-Dahlem, Germany. Production of gray cast iron. 1,705,972; Mar. 19.
- Hanes, Lewis F., Greensboro, N. C. Heat distributor for cooking vessels. 1,737,498; Nov. 26.
- Haney, Clifford I. (See Dreyfus, H., and Haney.)
- Haney, Thomas S., Grandview, W. Va. Toy engine. 1,721,447; July 16.
- Hanff, Ferdinand. (See Fuchs, A., Hanff, and Lanz.)
- Haniman, Charles J., Bayonne, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Tie member for furnace walls. 1,710,257; Apr. 23.
- Hanington, Charles A., Freeport, N. Y. Decorating flexible material. 1,741,770; Dec. 31.
- Hanke, Mary E. (See Ostdiek, H. J., and Hanke.)
- Hankins, Cyrus, Washington, D. C. Car-door mechanism. 1,717,382; June 18.
- Hankins, Cyrus, Baltimore, Md., assignor to The Symington Company, New York, N. Y. Side frame. 1,706,665; Mar. 26.
- Hankins, Frederick W., Philadelphia, and C. D. Young, Wayne, Pa. Truck pedestal. 1,724,798; Aug. 13.
- Hanks, George R., assignor to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Conditioning articles of manganese steel. 1,701,976; Feb. 12.
- Hankwitz, Otto C. H., assignor to W. J. Nuss Lumber & Supply Company, Fond du Lac, Wis. Latching device. 1,720,042; July 9.
- Hanlan, Frederick. (See Ordway, D. P., and Hanlan.)
- Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y. Fountain-pen holder. Des. 79,190; Aug. 13.
- Hanley Company. (See Norton, Charles E., assignor.)
- Hanley, Francis J. (See Poturnaj, John, assignor.)
- Hanley, Frank H., assignor to Hanley Manufacturing Company, Detroit, Mich. Electric iron. 1,739,720; Dec. 17.
- Hanley Manufacturing Company. (See Hanley, Frank H., assignor.)
- Hanley, Thomas L. (See Price, E. C., and Hanley.)
- Hanley, William, East Orange, assignor to Ferguson Brothers Manufacturing Company, Hoboken, N. J. Workbox. 1,707,806; Apr. 2.
- Hanley, William L., Jr., Bradford, Pa. Tunnel kiln. 1,705,475; Mar. 19.
- Hanley, William L., Jr., Bradford, Pa. Tunnel kiln. 1,705,477; Mar. 19.
- Hanley, William L., Jr., Bradford, Pa. Tunnel kiln. 1,720,550; July 9.
- Hanlon, Frank F., Columbus, Ohio. Protecting meat during shipment. 1,732,680; Oct. 22.
- Hanlon, George J., New York, N. Y. Playground apparatus. 1,707,854; Apr. 2.
- Hanna, Clinton R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Signal translating device. 1,702,434; Feb. 19.
- Hanna, Clinton R., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Multiple-inlet horn. 1,715,703; June 4.
- Hanna, David B., Park Ridge, Ill., assignor to American Concrete Products Co. Lamp. Des. 79,964; Nov. 26.
- Hanna, David B., Chicago, Ill., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Pole reinforcement. 1,699,736; Jan. 22.
- Hanna, Edward W., et al. (See Plimpton, Samuel J., assignor.)
- Hanna Engineering Works. (See Hanna, John C., assignor.)
- Hanna, Howard M. (See Wetherbee, H. F., and Grant, assignors.)
- Hanna, John C., Evanston, assignor to Hanna Engineering Works, Chicago, Ill. Riveter. 1,707,006; Mar. 26.
- Hanna, John C., assignor to Hanna Engineering Works, Chicago, Ill. Closed-yoke riveter. 1,707,519; Apr. 2.
- Hanna, John C., assignor to Hanna Engineering Works, Chicago, Ill. Riveter suspension. 1,722,793; July 30.
- Hanna, John C., Evanston, assignor to Hanna Engineering Works, Chicago, Ill. Timing and reversing mechanism. 1,737,010; Nov. 26.
- Hanna, John P., assignor to National Recording Pump Company, Dayton, Ohio. Liquid-dispensing apparatus. 1,738,701; Dec. 10.
- Hanna, Richard W., Piedmont, assignor to Standard Oil Company of California, San Francisco, Calif. Pyroge- netic cracking process. 1,724,476; Aug. 13.
- Hanna, Richard W., Piedmont, assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Distillation of petroleum oils. 1,729,215; Sept. 24.
- Hannafoord, Cleon M., Richmond, Va. Retaining-valve fastening. 1,724,929; Aug. 20.
- Hannah, Walter H., Portsmouth, Ohio. Power-operated saw. 1,706,115; Mar. 19.
- Hannah, Walter H., Portsmouth, Ohio. Power-driven plane. 1,706,157; Mar. 19.
- Hannahs, William E., Ironton, Ohio. Ball-and-socket joint and packing. 1,733,457; Oct. 29.
- Hannebohn, Curt W. A., assignor to A. Kellner, Berlin-Charlottenburg, Germany. Collapsible carriage hood. 1,717,774; June 18.
- Hanneman, Walter M. (See Christensen, N. V., and Hanneman.)
- Hanneman, Walter M., Oak Park, and R. H. Rideout, assignors to Union Special Machine Company, Chicago, Ill. Presser foot for sewing machines. 1,718,904; June 25.
- Hannay, Angus F., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Laundry-marking tag. 1,704,705; Mar. 12.
- Hannay, Angus F., assignor to Gammell-Hannay Manufacturing Co., Chicago, Ill. Laundry bin. 1,717,705; June 18.
- Hannold, Curtis L., Marathon, Tex. Fiber-cleaning machine. 1,700,161; Jan. 29.
- Hannon, Albert H., Chicago, Ill. Transfer device. 1,706,526; Mar. 26.
- Hannon, Albert H., Chicago, Ill. Electroplating machine. 1,723,480; Aug. 6.
- Hanns, Arthur, Leipzig-Plagwitz, Germany. Machine for manufacturing tubular bodies from plastic substances. 1,717,507; June 18.
- Hannum, John A. (See Chisholm, D. C., and Hannum.)
- Hanny, Charles E., Unionville, assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. In-closed switch. 1,738,049; Dec. 3.
- Hanny, Charles E., Unionville, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Snap switch. 1,740,861; Dec. 24.
- Hanny, Charles E., Unionville, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Residence panel board. 1,740,862; Dec. 24.
- Hanover, Charles B., Spokane, Wash. Toothbrush. 1,734,429; Nov. 5.
- Hanovia Chemical and Mfg. Co. (See Anderson, W. T., Jr., and Robinson, assignors.)
- Hanovia Chemical & Mfg. Co. (See Knapp, Kenneth V., assignor.)
- Hanovia Chemical and Mfg. Co. (See Robinson, F. W., and Lemann, assignors.)
- Hanrahan, Joseph F., Long Island City, N. Y. Refrigeration. 1,717,683; June 18.
- Hansapakar, Edwin, Brockton, assignor to Brockton Heel Company, Inc., Campello, Mass. Machine for building randed heels. 1,707,760; Apr. 2.
- Hansard, Hugh H., Montreal, Quebec, Canada. Wrist support. 1,728,679; Sept. 17.
- Hansard, Orren H., and D. D. McGuire, Nashville, Tenn. Concrete-testing apparatus. 1,702,603; Feb. 19.
- Hanscom, Waldo A., Longview, Wash. Bucket. 1,714,863; May 28.
- Hanse, Mathew A., Barnesville, Ohio. Plate or Similar Article. Des. 77,484; Jan. 15.
- Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Radiation prevention. 1,725,915; Aug. 27.
- Hansell, Lannes N., Sanford, Fla. Automatic switch lock for railway switches. 1,699,966; Jan. 22.
- Hansen, A. L., Mfg. Co. (See Hansen, Augie L., assignor.)
- Hansen, Abel, Metuchen, N. J. Urinal. 1,740,860; Dec. 24.
- Hansen, Adolph C., Chicago, Ill. Talking machine. 1,734,087; Nov. 5.
- Hansen, Arnold A., West Orange, N. J., assignor to American Telephone and Telegraph Company. Testing lever keys. 1,707,265; Apr. 2.
- Hansen, Arnold C., Jr. (See Boll, L. P., and Hansen.)
- Hansen, Arthur C., Los Angeles, assignor of one-half to H. C. Schumacher, Glendale, Calif. Automobile bumper and bumper-extension device. 1,723,508; Aug. 6.
- Hansen, Augie L., Chicago, Ill. Display rack. 1,697,866; Jan. 8.
- Hansen, Augie L., assignor to A. L. Hansen Mfg. Co., Chicago, Ill. Door fastener. 1,712,792; May 14.
- Hansen, August O., assignor to International Combustion Engineering Corporation, New York, N. Y. Furnace. 1,739,836; Dec. 17.
- Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Guide for working implements. 1,697,648; Jan. 1.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Sand pipe for rock drills. 1,697,649; Jan. 1.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Lubricator. 1,702,604; Feb. 19.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,707,661; Apr. 2.
- Hansen, Charles C., Easton, Pa.; assignor to Ingersoll-Rand Company, Jersey City, N. J. Submarine drill. 1,708,173; Apr. 9.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Chuck mechanism for rock drills. 1,715,359; June 4.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Guide head for drill steels. 1,719,468; July 2.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mud guard for submarine drills. 1,732,887; Oct. 22.



- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Quenching device for drill steels. 1,738,050; Dec. 3.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Liquid-feeding device for rock drills. 1,739,141; Dec. 10.
- Hansen, Charles P., assignor to one-half to D. Hansen, Evan, Minn. Automobile trailer-hitch attachment. 1,739,456; Dec. 10.
- Hansen, Christian, Wiesdorf-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Recovery of sulphurous acid from waste gases. 1,740,342; Dec. 17.
- Hansen, Conrad T., assignor to Hale & Kilburn Co., Philadelphia, Pa. Adjustable seat. 1,731,461; Oct. 15.
- Hansen, Dell. (See Hansen, Charles P., assignor.)
- Hansen-Ellehammer, Jacob C., Hellerup, Denmark. Automobile fire engine. 1,703,669; Feb. 26.
- Hansen, Fred A., assignor to Hevi Duty Electric Company, Milwaukee, Wis. Conveyor. 1,741,516; Dec. 31.
- Hansen, Fred A., assignor to Hevi Duty Electric Company, Milwaukee, Wis. Conveyor. 1,741,624; Dec. 31.
- Hansen, Fred E., Lakewood, assignor to The Hansen Manufacturing Company, Cleveland, Ohio. Fluid-pressure spraying device. 1,728,756; Sept. 17.
- Hansen, Gustof L., assignor to Gear Grinding Machine Company, Detroit, Mich. Method and apparatus for testing gears. 1,701,183; Feb. 5.
- Hansen, Gustof L., assignor to Gear Grinding Machine Company, Detroit, Mich. Method and apparatus for testing gears. 1,701,184; Feb. 5.
- Hansen, Henry H., La Grange, Ill. Household utility device. 1,712,110; May 7.
- Hansen, Herman, New York, N. Y., assignor to Francis Keil & Son, Inc. Locking mechanism. Re17,225; Mar. 5.
- Hansen, Jacob M., assignor to Hartmann-Malcolm Company, Chicago, Ill. Stump for a settee frame or the like. Des. 77,692; Feb. 12.
- Hansen, Johannes, Copenhagen, Denmark. Shearing or clipping machine. 1,714,778; May 28.
- Hansen, John, Missoula, Mont. Fishing otter. 1,723,236; Aug. 6.
- Hansen, John, Bettendorf, Iowa. Power-baling machine. 1,723,348; Aug. 6.
- Hansen, Julius G., Reading, and W. J. Hansen, Wyomissing, Pa. Chute delivery mechanism for dump wagons. 1,718,460; June 25.
- Hansen, Klaus L., Milwaukee, Wis. Dynamo-electric machine. 1,711,844; May 7.
- Hansen, Laurits, Omaha, Nebr. Combined gate and liquid dispenser. 1,721,731; July 23.
- Hansen, Lorin L., Wasta, S. Dak., assignor to one-half to C. H. Look, Rapid City, S. Dak. Dirigible airship. 1,741,699; Dec. 31.
- Hansen Manufacturing Company, The. (See Hansen, Fred E., assignor.)
- Hansen, Marius H., assignor to Hanson Scale Company, Chicago, Ill. Weighing-scale casing. Das. 78,751; June 18.
- Hansen, Marius H., assignor to Hanson Scale Company, Chicago, Ill. Nursery-scale base. 1,719,510; July 2.
- Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Beet topper. 1,718,954; July 2.
- Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Port Washington, Wis. Apparatus for treating kraut. 1,726,297; Aug. 27.
- Hansen, Oswald H., Milwaukee, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Canning machine. 1,734,166; Nov. 5.
- Hansen, Otto A., Appleton, Wis. Rail joint. 1,724,581; Aug. 13.
- Hansen, Otto C., St. Joseph, Mo., assignor to Swift and Company, Chicago, Ill. Meat-saw guard. 1,738,896; Dec. 10.
- Hansen, Raymond, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead-ring-applying device. 1,730,572; Oct. 8.
- Hansen, Raymond J., Redondo Beach, Calif. Window-raising mechanism. 1,740,733; Dec. 24.
- Hansen, Royal. (See Hansen, Niels F., assignor.)
- Hansen, Victor A., Wausau, Wis. Fly and bait kit. 1,711,677; May 7.
- Hansen, Walter J. (See Hansen, Julius G. and W. J.)
- Hanser, Hugo E. (See Miller, S. P., Hanser, and Cooley.)
- Hansford, Thomas E., Bristol, England. Tobacco pipe. 1,706,781; Mar. 26.
- Hansmann, Frederick, et al. (See Bridler, John J., assignor.)
- Hansmann, Paul, and H. Strack, Long Prairie, Minn., assignors, by mesne assignments, to the said Hansman. Plow. 1,708,297; Apr. 9.
- Hansmann, Paul, and H. Strack, Long Prairie, Minn., assignors, by mesne assignments, to the said Hansmann. Antiside-draft plow hitch. 1,740,589; Dec. 24.
- Hanson, Adolph K., Chicago, Ill. Blade sharpener. 1,732,360; Oct. 22.
- Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson, executor. Method of and apparatus for grinding worm gears. 1,708,570; Apr. 9.
- Hanson, Bengt M. W., deceased, Hartford; E. A. Hanson, West Hartford, and C. E. Whitney, Hartford, Conn., executors; now, by resignation, E. A. Hanson, sole executor. Grinding machine. 1,709,617; Apr. 16.
- Hanson, C. H., Company. (See Band, Henry C., assignor.)
- Hanson, Casper F., assignor to Olson Manufacturing Company, Albert Lea, Minn. Conveying apparatus. 1,710,358; Apr. 23.
- Hanson, Earl C., Chicago, Ill. Reproducing apparatus for phonographs and the like. 1,725,579; Aug. 20.
- Hanson, Edward C. (See McClintock, O. B., Lawrence, Hanson, and Soderholm.)
- Hanson, Einar A., executor. (See Hanson, Bengt, M. W.)
- Hanson, Einar A., et al., executor. (See Hanson, Bengt M. W.)
- Hanson, Einar A., sole executor. (See Hanson, Bengt M. W.)
- Hanson, Einar A., West Hartford, Conn. Method of an apparatus for grinding convoluted members. 1,702,160; Feb. 12.
- Hanson, Glen N. (See Harvey, C. A., and Hanson.)
- Hanson, Gust, assignor to one-half to C. Johnson, Vancouver, British Columbia, Canada. Rodent trap. 1,713,900; May 21.
- Hanson, Hans C., Albert Lea, Minn. Heater with reflector. 1,713,827; May 21.
- Hanson, Hans C., Albert Lea, Minn. Gasoline cooking stove with torchless starting. 1,729,652; Oct. 1.
- Hanson, Herman, Garfield, Minn. Connecting link for tire chains. 1,717,558; June 18.
- Hanson, Isaac E., Beaumont, Tex. Suction supporting device. 1,714,422; May 21.
- Hanson, James C., and G. B. Eggert, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Tray for dough proofers. 1,712,211; May 7.
- Hanson, John A., Hunters, Wash. Radio apparatus. 1,725,074; Aug. 20.
- Hanson, John E., and A. J. Clark, Santa Barbara, Calif. Device for oiling wave stems in internal-combustion engines by means of force feed. 1,714,954; May 28.
- Hanson, Miles G., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Forming window-regulator gear members and apparatus therefor. 1,734,903; Nov. 5.
- Hanson, Nathan E., assignor to Union Special Machine Company, Chicago, Ill. Needle head for sewing machines. 1,725,916; Aug. 27.
- Hanson, Niels F., Gunnison, Utah, assignor to Royal Hanson, Sterling, Utah. Internal-combustion engine. 1,721,624; July 23.
- Hanson, Nils A., Arlington, N. J. Umbrella. 1,728,489; Sept. 17.
- Hanson, Ole C., Hopkins, Minn. Blocking and cultivating machine for plants. 1,718,818; June 25.
- Hanson, Oscar A., Rockford, Ill. Gas range. 1,708,298; Apr. 9.
- Hanson, Oscar B., Roselle, G. Crisson, Orange, and F. W. McKown, Englewood, N. J., assignors to American Telephone and Telegraph Company. Volume-control system. 1,715,415; June 4.
- Hanson, Samuel L., Albert Lea, Minn. Hay sling. 1,713,901; May 21.
- Hanson Scale Company. (See Hansen, Marius H., assignor.)
- Hanson, Sigvort, assignor to Racine Dispenser Manufacturing Company, Racine, Wis. Dispensing machine. 1,738,428; Dec. 3.
- Hanson-Van Winkle-Munning Company. (See Hall, Wesley F., assignor.)
- Hanson-Van Winkle-Munning Company. (See Taylor, Floyd T., assignor.)
- Hanson, Victor G. (See Clausen, S., and Hanson.)
- Hanssen, Iver A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Pneumatic tool. 1,737,419; Nov. 26.
- Hantzsch, Ralph E., East Orange, N. J., assignor of one-half to D. R. Lamont, Brooklyn, N. Y. Spark-plug tester. 1,724,195; Aug. 13.
- Hanzlik, Henry J., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade fastening. 1,720,729; July 16.
- Hanzlik, Henry J., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing. 1,730,503; Oct. 8.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,706,976; Mar. 26.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Weighing and counting scale. 1,715,832; June 4.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Teat cup for milking machines. 1,701,072; Feb. 5.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separating impurities from liquids. 1,711,315; Apr. 30.
- Hapgood, Cyrus H., Nutley, N. J. Intermittent-absorption refrigerating apparatus. 1,718,690; June 25.
- Happel, Albert, assignor to The Kent-Owens Machine Company, Toledo, Ohio. Frame for punching and shearing machines. 1,700,221; Jan. 29.
- Happy Thought Foundry Company. (See Simons, Albert E., assignor.)
- Harada, Henry H., Eau Gallie, Fla. Electrically-operated direction signal. 1,715,654; June 4.
- Harary, Samuel, Brooklyn, N. Y. Preparing buckram. 1,712,991; May 14.
- Harbecke, Herman H., assignor to Automatic Electric Inc., Chicago, Ill. Ringing-current distributing and interrupting equipment. 1,701,073; Feb. 5.



- Harbert, Victor H. (See Heidman, G., and Harbert.)  
 Harbert, Victor H., Chicago, assignor to E. P. Smith, Springfield, Ill. Brake-hanger support. 1,705,519; Mar. 19.  
 Harbert, Victor H., Chicago, assignor to E. P. Smith, Springfield, Ill. Brake-hanger support. 1,705,520; Mar. 19.  
 Harbert, Victor H., assignor to E. P. Smith, Chicago, Ill. Brake-hanger support. 1,705,521; Mar. 19.  
 Harbert, Victor H., assignor to E. P. Smith, Chicago, Ill. Support for brake hangers. 1,713,280; May 14.  
 Harbert, Victor H., assignor to E. P. Smith, Chicago, Ill. Brake-gear mounting. 1,717,027; June 11.  
 Harbert, Victor H., Chicago, Ill. Brake-hanger-suspending means. 1,734,088; Nov. 5.  
 Harbert, Victor H., Springfield, Ill. Retaining-valve bracket. 1,738,897; Dec. 10.  
 Harbison, Arthur M., Boggsville, assignor of one-half to G. Bundy, West Winfield, Pa. Automatic choke-valve control for gas engines. 1,725,513; Aug. 20.  
 Harbison, Clarence B., assignor to The Ohio Steel Foundry Company, Lima, Ohio. Locomotive frame. 1,705,476; Mar. 19.  
 Harbison, Clarence B., assignor to The Ohio Steel Foundry Company, Lima, Ohio. Equalizer truck. 1,710,359; Apr. 23.  
 Harbison, Clarence B., assignor to Ohio Steel Foundry Company, Lima, Ohio. Six-wheel truck. 1,710,699; Apr. 30.  
 Harbison, Clarence B., assignor to The Ohio Steel Foundry Company, Lima, Ohio. Truck frame. 1,733,344; Oct. 29.  
 Harbord, Rolla C., assignor of one-half to J. H. Trimble, Spokane, Wash. Automobile signal. 1,702,566; Feb. 19.  
 Harbord, Rolla C., assignor of one-third to H. Gest and one-third to J. H. Trimble, Spokane, Wash. Motor-vehicle semaphore. 1,731,569; Oct. 15.  
 Harbour, Albert S., Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich. Engine mounting. 1,738,532; Dec. 10.  
 Harbour, Thomas D., et al. (See Philyaw, Jeff D., assignor.)  
 Hard, Merrill W., Glendale, Calif., assignor, by mesne assignments, of one-fourth to O. E. Englich, Chicago, Ill., and one-fourth to L. E. Richey, Los Angeles, Calif. Automobile rack. 1,730,610; Oct. 8.  
 Harde, Elinore E., Ridgefield, Conn. Shutter-operating device or attachment for cameras. 1,709,473; Apr. 16.  
 Hardee, Theodore, et al. (See Simpson, Hiram R., assignor.)  
 Harden, Clara B. (See Cole, Lonnie C., assignor.)  
 Harden, George A., Akron, Ohio. Sled. 1,730,072; Oct. 1.  
 Harden, Ralph L., assignor to The Mason Box Company, Attleboro Falls, Mass. Display box. 1,700,824; Feb. 5.  
 Harden, Richard, Chestnut Hill, Mass. Circuit closer. 1,707,805; Apr. 2.  
 Harden, Walter, assignor of one-third to J. F. Holland and one-third to W. F. Holland, Cincinnati, Ohio. Sound-wave transmitting and amplifying device. 1,741,934; Dec. 31.  
 Harden, William S., and R. D. Duley, Stanberry, Mo. Gravity oil filter. 1,706,228; Mar. 19.  
 Hardenbergh, Clarence M., assignor of one-third to E. M. Raczy and one-third to R. J. Sholtz, Kansas City, Mo. Article-sorting apparatus. 1,712,700; May 14.  
 Harder, Delmer S., and F. W. Vrooman, assignors to Durant Motor Co., Oakland, Calif. Mounting means for vehicle engines. 1,718,461; June 25.  
 Harder, Otto E., St. Paul, Minn. Composition for lithographing ink. 1,714,166; May 21.  
 Hardesty, Ben F., assignor to National Gas Register Pump Co., New York, N. Y. Liquid dispensing and recording apparatus. 1,732,599; Oct. 22.  
 Hardesty, Thomas M., Long Beach, Calif. Drill-pipe coupling. 1,701,885; Feb. 12.  
 Hardesty, Thomas M., Santa Paula, Calif. Drill-pipe coupling. 1,715,547; June 4.  
 Hardgrove, Ralph M., Allentown, assignor to Fuller Lehigh Company, Fullerton, Pa. Composition of matter. 1,714,598; May 28.  
 Hardick, William H., assignor of one-half to S. N. Webb, Cadillac, Mich. Turnbuckle. 1,711,593; May 7.  
 Hardies, Paul, and W. Wischemann, Puyallup, Wash. Dirigible headlight. 1,705,013; Mar. 12.  
 Hardie-Tynes Mfg. Co. (See Mathews, William E., assignor.)  
 Hardin, M. A. (See Ellenberger, Paul G., assignor.)  
 Hardin, Ray S., assignor to Birtman Electric Company, Chicago, Ill. Combination cooling fan and heater. 1,714,167; May 21.  
 Hardin, Tully B., Abilene, Tex. Cotton blocker. 1,703,393; Feb. 26.  
 Harding, Charles H., Fort Smith, Ark. Manufacture of glass cylinders. 1,736,005; Nov. 19.  
 Harding, Clyde R., Council Bluffs, Iowa. Pipe pusher. 1,698,498; Jan. 8.  
 Harding, Dana E., Arlington, assignor, by mesne assignments, to Harding-Walcott Company, Boston, Mass. Grading and gauging machine. 1,704,386; Mar. 5.  
 Harding Engineering Company. (See Wright, Wallace C., assignor.)  
 Harding, Frederic T. (See Friel, L. D., and Harding.)  
 Harding Glass Company. (See Westbury, W., and Collins, assignors.)  
 Harding, Howard V., assignor to Gifford-Wood Company, Hudson, N. Y. Indicator. 1,705,973; Mar. 19.  
 Harding, Howard V., assignor to Peter Clark, Inc., New York, N. Y. Vanishing footlight for stages. 1,732,600; Oct. 22.  
 Harding, James E., Lyme, Conn. First-aid kit. 1,721,215; July 16.  
 Harding Machine Corporation. (See Anderson, H., and Lindgren, assignors.)  
 Harding, Thomas, Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Milk-bottle holder. 1,703,445; Feb. 26.  
 Harding, Thomas, Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Crown-cap remover. 1,711,678; May 7.  
 Harding, Thomas W. Tunstall, England, assignor to H. C. Edmiston, New York, N. Y. Covered dish or similar article. Des. 78,288; Apr. 16.  
 Harding-Walcott Company. (See Harding, Dana E., assignor.)  
 Harding-Walcott Company. (See Walcott, Joseph H., assignor.)  
 Harding-Walcott Company. (See Wright, Wallace C., assignor.)  
 Hardinge Brothers, Inc. (See Hardinge, Franklin, assignor.)  
 Hardinge Brothers, Inc. (See Hardinge, F., and Connor, assignors.)  
 Hardinge Brothers, Inc. (See Schroeder, Oscar C., assignor.)  
 Hardinge Company. (See Hardinge, Harlowe, assignor.)  
 Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Oil burner. 1,735,245; Nov. 12.  
 Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Oil burner. 1,739,548; Dec. 17.  
 Hardinge, Franklin, and B. H. Connor, assignors to Hardinge Brothers, Inc., Chicago, Ill. Oil burner. 1,707,761; Apr. 2.  
 Hardinge, Harlowe, assignor to Hardinge Company, Incorporated, York, Pa. Dust classifier. 1,709,848; Apr. 23.  
 Hardinge, Harlowe, assignor to Hardinge Company, Incorporated, York, Pa. Classification system for pulverized materials. 1,721,594; July 23.  
 Hardingham, George G. M., Westminster, England. Fractional-line-spacing mechanism for typewriters. 1,718,043; June 18.  
 Hardman, Albert H., Wheeling, W. Va. Switch. 1,703,394; Feb. 26.  
 Hardman, Cornelius B., Columbus, Ohio. Bailing press. 1,721,906; July 23.  
 Hardman, Robert C., Portland, Oreg. Combined display and vending machine. 1,737,499; Nov. 26.  
 Harldsocg, Martin, Ottumwa, Iowa. Double-cylinder well drill. 1,710,925; Apr. 30.  
 Harldsocg, Martin, Ottumwa, Iowa. Rock drill. 1,718,462; June 25.  
 Harldsocg, Martin, Ottumwa, Iowa. Rock drill. 1,718,463; June 25.  
 Hardt, Emil F., Detroit, Mich. Tool box. 1,739,793; Dec. 17.  
 Hardtke, Edward J., assignor to Seaman Body Corporation, Milwaukee, Wis. Window frame. 1,714,599; May 28.  
 Hardtmann, Max. (See Hentrich, W., and Hardtmann.)  
 Hardtmann, Max. (See Hentrich, W., Hardtmann, and Knoche.)  
 Hardware Manufacturing Company. (See Pollock, John L., assignor.)  
 Hardway, William B., Cleveland, Ohio. Furnace. 1,719,885; July 9.  
 Hardwicke-Etter Company. (See Streun, John A., assignor.)  
 Hardy, Arthur C., Wellesley, Mass., and F. W. Cunningham, Stamford, Conn. Electrical controlling apparatus. 1,721,216; July 16.  
 Hardy, Charles. (See Jones, L. L., and Hardy.)  
 Hardy, Charles, assignor to Amso Products, Inc., New York, N. Y. Variable condenser. 1,700,222; Jan. 29.  
 Hardy, Charles, assignor to Amso Products, Inc., New York, N. Y. Variable condenser. 1,700,259; Jan. 29.  
 Hardy, Charles, assignor to Amso Products, Inc., New York, N. Y. Electron-discharge-tube socket. 1,712,212; May 7.  
 Hardy, Charles, New York, N. Y. Cigar lighter. 1,734,465; Nov. 5.  
 Hardy, Clarence A., Napoleon, Ohio. Type lifter. 1,723,161; Aug. 6.  
 Hardy, Franklin E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company Regulator system. 1,697,183; Jan. 1.  
 Hardy, Harry. (See Bradley, J., and Hardy.)  
 Hardy, Minnie M., Washington, D. C. Automobile cover. 1,715,286; May 28.  
 Hardy, Rudand, Orland, Calif. Air-cooling device. 1,715,753; June 4.  
 Hardy, Thomas M., et al. (See Davis, Dean W., assignor.)  
 Hardy, William G., Crafton, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,702,341; Feb. 19.  
 Hardy, William H., Fort Worth, Tex. Cushion for office furniture. 1,738,295; Dec. 3.  
 Hardy, Winfield A., Brooklyn, N. Y. Index device. 1,704,892; Mar. 12.  
 Hare, Franklin C., assignor to G. A. Woolsey, Rockford, Ill. Brooder heater. 1,741,565; Dec. 31.  
 Hare, Wilfred A., Detroit, Mich. Furnace. 1,729,776; Oct. 1.



- Harel, Lucien, Barcelona, Spain. Carburetor. 1,729,382; Sept. 24.
- Hargis, George R., assignor to The Frederick Iron & Steel Company, Frederick, Md. Lifter for centrifugal pumps. 1,735,754; Nov. 12.
- Hargleroad, William B., jr. (See Hargleroad, William B., assignor.)
- Hargleroad, William B., Hastings, Nebr., assignor to W. B. Hargleroad, jr. Road maintainer. 1,721,075; July 16.
- Hargrave, Harry H., Long Beach, Calif. Slide mat. 1,698,093; Jan. 8.
- Hargrave, John M., Cincinnati, Ohio. Clamp jaw. 1,708,617; Apr. 9.
- Hargraves, Charles W., Yeoman, Ind. Combination hog oiler and feeder. 1,734,035; Nov. 5.
- Hargreaves, Harold, Burnley, England. Electrically-heated water boiler. 1,729,777; Oct. 1.
- Hargreaves, Harold, Burnley, assignor to Jackson Boilers Limited, Leeds, England. Self-feeding electrically-heated water boiler. 1,697,115; Jan. 1.
- Hargreaves, William, Long Beach, Calif., assignor to T. R. Price, Batesville, Tex. Underreamer. 1,717,559; June 18.
- Haring, Peter P., Goliad, Tex. Cotton-picking apparatus. 1,715,655; June 4.
- Harker, Parley, Lewisville, Idaho. Automatic check gate. 1,738,051; Dec. 3.
- Harkness, Frank V., assignor to Sunland Sales Cooperative Association, Fresno, Calif. Window display hanger. 1,706,606; Mar. 26.
- Harkrader, Virgil C., Peoria, Ill. Football game. 1,701,002; Feb. 5.
- Harkreader, Charles T., Quincy, Ill. Shank for shoes. 1,715,548; June 4.
- Harks, Walter M. (See Hayes, E. P., and Harks.)
- Harks, Walter M., Madison, Wis., assignor to R. E. Risser, Bonham, Tex. Positive-measure visible pump. 1,715,833; June 4.
- Harlan, George W., Otterville, Mo. Rail-joint fastener. 1,700,046; Jan. 22.
- Harlan, O. B. (See Morrow, Bert H., assignor.)
- Harlan, Ralph P., Chicago, Ill. Automatic air torpedo. 1,733,798; Oct. 29.
- Harley, Bertron G., Chesapeake City, Md., assignor of forty-nine one-hundredths to J. E. Walls, Middletown, Del. Boat. 1,737,154; Nov. 26.
- Harley, Erskine P., Oklahoma City, Okla. Fly swatter. 1,727,768; Sept. 10.
- Harley, Jacob E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Structure for tire holders and the like and making the same. 1,714,023; May 21.
- Harley, John H., Detroit, Mich. Ball-and-socket joint. 1,728,490; Sept. 17.
- Harlow, Thomas, and W. Zimmermann, Benton City, Mo. Combination automobile radiator filler and ornament. 1,699,889; Jan. 22.
- Harm, Franklin M., Rochester, N. Y. Circulating device. 1,736,593; Nov. 19.
- Harman, Frank B., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Metal furniture construction. 1,729,041; Sept. 24.
- Harnes, Edward, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company. Molding machine and valve therefor. 1,726,022; Aug. 27.
- Harnes, Edward, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company. Molding machine. 1,726,023; Aug. 27.
- Harnes, Edward, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company. Molding machine. 1,726,024; Aug. 27.
- Harnes, Edward, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company. Molding machine. 1,726,025; Aug. 27.
- Harmon, Arthur J. and J. W., Chicago, Ill. Pipe bender. 1,741,840; Dec. 31.
- Harmon, Claude O. (See Case, Francis M., assignor.)
- Harmon, Edwin L. (See Avery, H. A., Petermann, and Harmon.)
- Harmon, Edwin L. (See Ely, A. B., and Harmon.)
- Harmon, Frank, Chippewa Falls, Wis., and T. C. Tussey, Westerville, Ohio. Picture frame. Des. 78,814; June 25.
- Harmon, James W. (See Harmon, Arthur J. and J. W.)
- Harmon, Julian C., Kannapolis, N. C., assignor to Draper Corporation, Hopedale, Mass. Let-back mechanism for looms. 1,712,731; May 14.
- Harmon, Kenneth R., assignor of one-half to Barbee Hayes Co., Norfolk, Va. Ice shaver. 1,738,825; Dec. 10.
- Harmon, Mark. (See Fowler, M. J., Harmon, and Blankenship.)
- Harmon, Robert H., Saxtons River, Vt. Bottle stopper. 1,739,393; Dec. 10.
- Harmon, Willis E., Shrewsbury, and J. E. Windle, North Grafton, Mass. Cloth-folding machine. 1,716,168; June 4.
- Harmor & Co. Inc. (See Harty, W. A., and Moore, assignors.)
- Harmouth, Gust, Yale, Okla. Pencil clip. 1,709,979; Apr. 23.
- Harms, Albert E., and O. F. Jennow, assignors to The Bello Manufacturing Company, Limited, Copenhagen, Denmark. Machine for grinding razor blades. 1,701,108; Feb. 5.
- Harms, Walter, Sheboygan, Wis. Chicken feeder and exerciser. 1,712,613; May 14.
- Harnapp, Adolf K. F., West New York, N. J. Scarf. Des. 78,021; Mar. 19.
- Harner, John Z., and H. S. Schweinhart, assignors to The Union Manufacturing Company, Boyertown, Pa. Top grate for gas stoves. 1,697,184; Jan. 1.
- Harner, Joseph W. (See Jelks, E. B., and Harner.)
- Harner, Loyal S. (See Blomfield, A. L., Harner, and Coe.)
- Harness, J. King, et al. (See Utz, John G., assignor.)
- Harney, Emmet T., Garwood, N. J. Variable line spacer. Rel7,333; June 25.
- Harney, Emmet T., Garwood, N. J. Automobile clutch-operating mechanism. 1,704,602; Mar. 5.
- Harney, Francis W., assignor to The Upson Company, Lockport, N. Y. Heat-transmitting platen element. 1,712,386; May 7.
- Harnischfeger Corporation. (See Brown, Robert L., assignor.)
- Harnischfeger Corporation. (See Esters, J., and Huber, assignors.)
- Harnischfeger Corporation. (See Haehle, H., and Kraynick, assignors.)
- Harnischfeger Corporation. (See Harry, G. M., and Sternberger, assignors.)
- Harnischfeger Corporation. (See Henricks, Arthur G., assignor.)
- Harnischfeger Corporation. (See Kraynick, Steve, assignor.)
- Harnischfeger Corporation. (See Ljungkull, Rolf, assignor.)
- Harnischfeger Corporation. (See Mitchell, Holger L., assignor.)
- Harnischfeger Corporation. (See Mitchell, H. L., and Ljungkull, assignors.)
- Harnly, David H., Chicago, Ill. Weatherproofing structure. 1,698,949; Jan. 15.
- Harootian, Ogaspap, Los Angeles, Calif. Pressing machine for clothes. 1,725,514; Aug. 20.
- Harper, Angelo C., Washington, D. C. Safety attachment for aeroplanes. 1,710,618; Apr. 23.
- Harper, Augustus E., Belfast, Me., assignor to American Telephone and Telegraph Company. Radio receiving system. 1,724,019; Aug. 13.
- Harper Electric Furnace Corporation. (See Fitzgerald, Francis A. J., assignor.)
- Harper, Hobart W., La Crosse, Kans. Apparatus for coating confections. 1,711,599; May 7.
- Harper, James G. (See Newman, S. F., and Harper.)
- Harper, Lawrence, South Olive, Ohio. Milk bottle. 1,708,135; Apr. 9.
- Harper, Philip S., Chicago, Ill. Gas-range cock. 1,707,007; Mar. 26.
- Harper, William, assignor of one-half to H. C. Morris, Albany, Oreg. Self-cleaning saw for bark-peeling machines. 1,738,067; Dec. 3.
- Harper, William, jr., New Bloomfield, Pa., assignor, by mesne assignments, to American Gas Turbine Corporation, New York, N. Y. Rotary reciprocating combustion engine. 1,722,257; July 30.
- Harper, William, jr., New Bloomfield, Pa., assignor, by mesne assignments, to American Gas Turbine Corporation, New York, N. Y. Combustion engine. 1,722,258; July 30.
- Harper, William, jr., New Bloomfield, Pa., assignor to American Gas Turbine Corporation, New York, N. Y. Internal-combustion engine. 1,722,259; July 30.
- Harper, William, jr., New Bloomfield, Pa., assignor to American Gas Turbine Corporation, New York, N. Y. Combustion engine and operating same. 1,722,260; July 30.
- Harper, William, jr., Port Washington, N. Y. Increasing the speed of boats. 1,725,452; Aug. 20.
- Harper, Fred A., assignor to Central Glass Works, Wheeling, W. Va. Vanity tray. Des. 77,356; Jan. 1.
- Harpstrite, Augustus J., Los Angeles, Calif. Echelon-plane airship. 1,700,290; Jan. 29.
- Harr, Elmer and W., Wallace, Idaho. Compression pump. 1,701,003; Feb. 5.
- Harr, Walter. (See Harr, Elmer and W.)
- Harrah, William E., Niles, Mich., assignor to National Standard Co. Wire splicer. 1,706,116; Mar. 19.
- Harrel, Chastain G. (See Patterson, C. J., and Harrel.)
- Harrel, Chastain G. (See Robinson, G. C., and Harrel.)
- Harrell, Stan. (See Gerneith, A. W., and Harrell.)
- Harrellson, Charles L., Casper, Wyo., assignor, by mesne assignments, of forty-seven and one-half per cent to The Leidecker Tool Company, Marietta, Ohio. Hydraulic rotary-drill bit. 1,734,672; Nov. 5.
- Harrell, Frank S., Loyalton, Calif. Grinding machine. 1,729,288; Sept. 24.
- Harrell, Rolla M., Monroe City, Ind. Target. 1,728,541; Sept. 17.
- Harrigan, William, Jersey City, N. J., assignor to The Texas Company, New York, N. Y. Lubricating apparatus. 1,720,398; July 9.
- Harriman, Louis H. (See Cable, Julius L., assignor.)
- Harring, Harry K., Washington, D. C., assignor of two-thirds to M. R. Mills, Richmond, Va. Machine gun. 1,698,228; Jan. 8.
- Harrington, Alfred L., Rosslyn Farms, Pa., assignor to Pittsburgh Plate Glass Company. Sheet surfacing. 1,705,918; Mar. 19.
- Harrington, Bertie S., Fort Worth, Tex. Filling machine. 1,700,494; Jan. 29.



- Harrington, Charles N., H. T. May, and C. B. Maxfield, assignors to La Crosse Knitting Company, La Crosse, Wis. Hosiery-drying apparatus. 1,740,942; Dec. 24.
- Harrington, Daniel M., Denver, Colo. Low-pressure alarm for tires. 1,724,020; Aug. 13.
- Harrington, Earl E., Baltimore, Md. Catamenial-bandage holder. 1,730,765; Oct. 8.
- Harrington, Earl E., Baltimore, Md. Holder for catamenial bandages. 1,730,766; Oct. 8.
- Harrington, Earl E., Baltimore, Md. Catamenial appliance. 1,730,818; Oct. 8.
- Harrington, Earl P., Youngstown, Ohio. Rotary conveyor. 1,741,019; Dec. 24.
- Harrington, Edward L., assignor to G. H. Williams Company, Erie, Pa. Clamshell bucket. 1,727,825; Sept. 10.
- Harrington, Elliott D., Schenectady, N. Y., assignor to General Electric Company. Control of braking effect. 1,713,228; May 14.
- Harrington, Elliott D. (See Whiting, M. A., and Harrington.)
- Harrington, Margaret L., et al. (See Freese, Claude H., assignor.)
- Harrington-Seaberg Corporation. (See Seaberg, Severin, assignor.)
- Harrington, William A., Leichhardt, near Sydney, New South Wales, Australia. Centrifugal casting apparatus for molding metal and other materials. 1,721,115; July 16.
- Harrington, William F., assignor to The Willys-Overland Company, Toledo, Ohio. Valve-operating mechanism. 1,698,995; Jan. 15.
- Harrington, William F., assignor of two-thirds to Hale & Kilburn Co., Philadelphia, Pa. Hydraulic braking system. 1,723,032; Aug. 6.
- Harrington, William H., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,704,568; Mar. 5.
- Harrington, William J. (See Drolette, H. A., Herne, and Harrington.)
- Harris, Albert E., Los Angeles, Calif. Valve. 1,708,224; Apr. 9.
- Harris, Albert L., assignor to Kelton Aurand Manufacturing Co., Bay City, Mich. Adjustable reclining chair. 1,699,842; Jan. 22.
- Harris, Arthur J., Paterson, N. J. Loom. 1,711,385; Apr. 30.
- Harris, Arthur J., Paterson, N. J. Ribbon and the like roll pack. 1,739,549; Dec. 17.
- Harris, Arthur W., Sleepy Eye, Minn. Transmission clutch. 1,704,433; Mar. 5.
- Harris, Benjamin G., assignor to Photo Equipment Mfg. Co., Seattle, Wash. Photographic-printing machine. 1,732,471; Oct. 22.
- Harris, Benjamin R., Chicago, Ill. Leather-dye preparation. 1,729,938; Oct. 1.
- Harris, Benjamin R., Chicago, Ill. Envelope. 1,735,273; Nov. 12.
- Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Loose-leaf memorandum-pad-box construction. 1,698,950; Jan. 15.
- Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Desk calendar. 1,712,302; May 7.
- Harris, Burton S., and H. M. Johnston, assignors to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Reel for harvester binders. 1,705,186; Mar. 12.
- Harris, Burton S., Toronto, Ontario, and H. M. Johnston, assignors to Massey-Harris Company, Limited, Toronto, Canada. Reaper thrasher. 1,712,821; May 14.
- Harris, Burton S., and H. M. Johnston, assignors to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Quick-release pitman. 1,732,888; Oct. 22.
- Harris, Burton S., and H. M. Johnston, assignors to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Reaper thrasher. 1,735,755; Nov. 12.
- Harris Calorific Company, The. (See Harris, John, assignor.)
- Harris, Carl C. (See Simmonds, W. J., and Harris.)
- Harris, Carl C., Orange, Mass. Open file. 1,713,601; May 21.
- Harris, Carl C., Orange, Mass. Finger moistener. 1,735,046; Nov. 12.
- Harris, Carl C., assignor to Rodney Hunt Machine Co., Orange, Mass. Drip flange for wood rolls. 1,700,312; Jan. 29.
- Harris, Carl C., assignor to Rivet-O Manufacturing Company, Orange, Mass. Rubber-stamp pad. 1,702,003; Feb. 12.
- Harris, Carl C., assignor to Rodney Hunt Machine Co., Orange, Mass. Drip flange for wood rolls. 1,702,435; Feb. 19.
- Harris, Charles, Chicago, Ill. Cigar lighter or similar article. Des. 80,224; Dec. 31.
- Harris, Charles M., Colorado Springs, Colo. External-combustion turbine. 1,726,104; Aug. 27.
- Harris, Clarence B., Los Angeles, Calif. Automobile elevator. 1,718,144; June 18.
- Harris, Dan L., assignor of one-third to S. H. Shawver and one-third to W. W. Evans, Blackwell, Okla. Vehicle screen. 1,730,204; Oct. 1.
- Harris, Donald B., Minneapolis, and O. W. Knauss, St. Paul, Minn.; said Knauss, assignor of one-tenth to said Harris. Transmission system for sound-carrying currents. 1,733,194; Oct. 29.
- Harris, Ebenezer D., Lander, Wyo. Mechanical movement. 1,717,706; June 18.
- Harris, Edward E., Kansas City, Mo. Combination salt and pepper shaker. 1,715,754; June 4.
- Harris, Edward M., assignor of one-third to C. H. Naylor and one-third to D. R. McNeal, San Diego, Calif. Smoking article. 1,726,737; Sept. 3.
- Harris, Edwin J., Kansas City, Mo. Bottle-handling device. 1,735,502; Nov. 12.
- Harris, Elijah P., Chicago, Ill., assignor to The Payson Manufacturing Company. Operating casement windows. 1,713,081; May 14.
- Harris, Elijah T., Chicago, Ill. Caster. 1,720,674; July 16.
- Harris, Ford W., Los Angeles, assignor to Brenneis Manufacturing Company, Oxnard, Calif. Disk harrow. 1,700,358; Jan. 29.
- Harris, Frank C., Cleveland, Ohio. Closure-operated track opener. 1,729,614; Oct. 1.
- Harris, George A., Garfield County, Colo. Rifle. 1,731,660; Oct. 15.
- Harris, George H. (See Adamson, Allan A., assignor.)
- Harris, George R. (See Bollheimer, R., Wilkens, and Harris.)
- Harris, George R., Los Angeles, Calif. Globe for street-lighting standards. Des. 79,359; Sept. 10.
- Harris, George R., Long Beach, assignor, by mesne assignments, to A. T. McKash and H. L. Person, Los Angeles, Calif., a copartnership doing business as Prizmalite Company. Combined globe and cap for street-lighting standards. Des. 77,409; Jan. 8.
- Harris, George R., Long Beach, assignor, by mesne assignments to A. T. McKash and H. L. Person, Los Angeles, Calif., a copartnership doing business as Prizmalite Company. Combined globe and cap for street-lighting standards. Des. 77,410; Jan. 8.
- Harris, George R., Long Beach, assignor to A. T. McKash and H. L. Person, Los Angeles, Calif., a copartnership doing business as Prizmalite Company. Street-lighting fixture. 1,709,218; Apr. 16.
- Harris, George S., Schenectady, N. Y., assignor to General Electric Company. Sound-producing apparatus. 1,722,213; July 23.
- Harris, Glenn A., Carlisle, Pa. Rotatable agitator and scraper. 1,698,402; Jan. 8.
- Harris, Glenn A., Carlisle, Pa. Paint-bucket carrier and brush support. 1,698,403; Jan. 8.
- Harris, Harry, Los Angeles, Calif. Chair. 1,740,090; Dec. 17.
- Harris, Henry, London, England. Treatment of solutions containing tin and arsenic for precipitation of tin. 1,714,667; May 28.
- Harris, Howard C., Akron, Ohio, assignor to The Fafnir Bearing Company, New Britain, Conn. Bearing. 1,701,474; Feb. 5.
- Harris, Hu M., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn. Hydraulic swivel. 1,737,793; Dec. 3.
- Harris, Isaac, Buffalo, assignor to United Radio Corporation, Rochester, N. Y. Cabinet for loud-speakers. Des. 78,204; Apr. 9.
- Harris, James C., Dallas, Tex. Toy gun. 1,724,708; Aug. 13.
- Harris, James E., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Producing materials in finely-divided form. 1,739,068; Dec. 10.
- Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electromagnet. 1,721,995; July 23.
- Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Induction electricity meter. 1,732,833; Oct. 22.
- Harris, John, assignor to The Harris Calorific Company, Cleveland, Ohio. Blowpipe. 1,698,094; Jan. 8.
- Harris, John, assignor to The Harris Calorific Company, Cleveland, Ohio. Blowpipe. 1,720,043; July 9.
- Harris, John T. (See Casha, T. C., and Harris.)
- Harris, Joseph, Wheaton, Ill. Ventilating screen. 1,741,986; Dec. 31.
- Harris, Leland D., Salt Lake City, Utah. Electrical reproducer for phonograph records. 1,739,228; Dec. 10.
- Harris, Lloyd, Rushsylvania, Ohio. Vehicle brake. 1,705,565; Mar. 19.
- Harris, Lottie J., Williamstown, N. Y. Mixing device. 1,720,361; July 9.
- Harris, Marcus R. (See Widenmann, T. W., and Harris.)
- Harris, Mark, Birmingham, Mich., assignor, by mesne assignments, to The Wahl Company, Chicago, Ill. Energy-absorbing device. 1,708,136; Apr. 9.
- Harris, Mark, New Rochelle, N. Y. Filament tube. 1,727,826; Sept. 10.
- Harris, Max F., Auburn, N. Y. Operating means for caps or lids of gasoline tanks and the like. 1,736,971; Nov. 26.
- Harris, Oren D. (See Peiffer, W. D., and Harris.)
- Harris, Percival, New York, N. Y. Artificial eyelashes for dolls. 1,741,415; Dec. 31.
- Harris, Philip H., Bronx, N. Y. Button. 1,708,415; Apr. 9.
- Harris, Ralph E., New Orleans, La. Pocket bathing suit. 1,714,365; May 21.
- Harris & Reed Manufacturing Co. (See Harris, Victor F., assignor.)
- Harris, Rex, San Diego, Calif. Boat. 1,731,493; Oct. 15.
- Harris, Samuel, Bruce Rock, Western Australia, Australia. Oil can. 1,733,731; Oct. 29.



- Harris-Seybold-Potter Company, The. (See Harrold, Charles W., assignor.)
- Harris-Seybold-Potter Company. (See Niblack, Hobart C., assignor.)
- Harris-Seybold-Potter Company. (See Pritchard, Carl G., assignor.)
- Harris-Seybold-Potter Company, The. (See Seybold, Charles, assignor.)
- Harris-Seybold-Potter Company, The. (See Valiquette, William L., assignor.)
- Harris, Thaddeus S., Waverly, Ill. Deep-well pump. 1,723,162; Aug. 6.
- Harris, Vernon J., Cleveland, Ohio. Brake-shaft silencer. 1,714,779; May 28.
- Harris, Victor F., assignor to Harris & Reed Manufacturing Co., Chicago, Ill. Rubber tire for casters. 1,716,311; June 4.
- Harris, Walter H., assignor of one-half to W. H. Humphrey, Port Elizabeth, South Africa. Method and apparatus for duplicating typewriting. 1,706,666; Mar. 26.
- Harris, Warren B., Millbury, Mass. Harness cord for looms. 1,720,271; July 9.
- Harris, Warren B., Millbury, Mass. Harness cord for looms. 1,720,272; July 9.
- Harris, William A., Boston, Mass., and H. R. French, Rutherford, N. J. Strip shingle. 1,732,403; Oct. 22.
- Harris, William A., assignor to The Flintkote Company, Boston, Mass. Roofing shingle. 1,732,229; Oct. 22.
- Harris, William A., Brighton, assignor to The Flintkote Company Boston Mass. Self-aligning strip shingle. 1,741,566; Dec. 31.
- Harris, William A. K., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio. Block-printing machine. 1,731,896; Oct. 15.
- Harris, William B., Woodland, Calif. Chair attachment. 1,726,485; Aug. 27.
- Harris, William D. (See Aycock, R. V., and Harris.)
- Harris, William D., and R. V. Aycock, assignors to RefinOil Manufacturing Corporation, Kansas City, Mo. Contact and filter apparatus. 1,707,672; Apr. 2.
- Harris, William E., Buffalo, N. Y. Nail file. Des. 79,191; Aug. 13.
- Harris, William O., and F. C. Kohler, San Francisco, Calif. Safety pin. 1,724,477; Aug. 13.
- Harrison, Annie, assignor of one-half to E. McGregor, Marlow, Okla. Water cooler and chest. 1,709,980; Apr. 23.
- Harrison, Arthur B. B., et al., trustees. (See Harrison, Herbert C.)
- Harrison, Arthur, & Company. (See Foster, John W., assignor.)
- Harrison, Burt S., Cleveland, Ohio. Core drier. 1,724,196; Aug. 13.
- Harrison, Cecil H., Enid, Okla. Oil burner. 1,718,556; June 25.
- Harrison, Charles, Vancouver, British Columbia, Canada. Renewable working face for excavating tools. 1,707,552; Apr. 2.
- Harrison, Charles D. (See Bartlett, R. S., Harrison, and Lindsey.)
- Harrison, Charles D., and P. D. Lindsey, Hominy, Okla. Valve. 1,708,060; Apr. 9.
- Harrison, Charles P., Wesleyville, Pa. Die head. 1,701,846; Feb. 12.
- Harrison, Clifford E., assignor to American Engineering Company, Philadelphia, Pa. Two-piece ram-box cap. 1,734,854; Nov. 5.
- Harrison, Clifford S. (See Harrison, John A., C. S., and J. E.)
- Harrison, Douglas M., East St. Louis, Ill., assignor, by mesne assignments, to McKenzie Mortar Company, Pittsburgh, Pa. Lime-hardening composition and making same. 1,718,955; July 2.
- Harrison, Edward F., assignor to Chemo-Mechanical Water Improvement Company, Inc., Philadelphia, Pa. Purifying polluted water, sewage, and the like by chemo-biological-mechanical process. 1,734,011; Oct. 29.
- Harrison, Florence M., et al., trustees. (See Harrison, Herbert C.)
- Harrison, Frank Y., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Hydraulic motor. 1,696,950; Jan. 1.
- Harrison, George D. (See Myers, W. L., and Harrison.)
- Harrison, Harry H., Liverpool, and S. R. Smith, London, assignors to Automatic Telephone Manufacturing Company Limited, Liverpool, England. Rotary distributor for use in telegraph or like systems. 1,731,977; Oct. 15.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Electromechanical translating device. 1,709,571; Apr. 16.
- Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,726,105; Aug. 27.
- Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic ball or roller bearing. 1,730,424; Oct. 8.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. 1,730,425; Oct. 8.
- Harrison, Henry C., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Sound-radiating system. 1,731,570; Oct. 15.
- Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,733,596; Oct. 29.
- Harrison, Henry C., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piston diaphragm having tangential corrugations. 1,734,624; Nov. 5.
- Harrison, Herbert C., deceased, Lockport, N. Y.; F. M. and A. B. B. Harrison and W. W. Campbell, trustees. Process of and apparatus for making metal sheets. 1,704,247; Mar. 5.
- Harrison, Howard R., Baltimore, Md., assignor to General Electric Company. Electric switch. 1,723,933; Aug. 6.
- Harrison, Hulen M., Chicago, Ill. Casing for dispensing apparatus. Des. 78,887; July 2.
- Harrison, Hulen M., Chicago, Ill. Casing for drink-dispensing machine. Des. 79,360; Sept. 10.
- Harrison, J. H. (See Coleman, J. L., assignor, and Ezzell.)
- Harrison, James M., Cleveland, Ohio. Apparatus for the heating of ovens and the like. 1,729,829; Oct. 1.
- Harrison, James M., Cleveland, Ohio. Heat-exchanging apparatus. 1,730,139; Oct. 1.
- Harrison, John A., C. S., and J. E., assignors to Harrison Mfg. Co., Shelby, Mich. Making containers. 1,713,383; May 14.
- Harrison, John E. (See Harrison, John A., C. S., and J. E.)
- Harrison, John H., Stockton, Calif. Picture-frame clamp. 1,704,893; Mar. 12.
- Harrison, John S., Charleston, S. C., assignor to Standard Oil Development Company. Pneumatic multiple pick. 1,718,924; June 25.
- Harrison, Laurence S. (See Larrabee, C. E., and Harrison.)
- Harrison, Laurence S., New York, assignor to International Time Recording Company of New York, Endicott, N. Y. Synchronizing clock system. 1,730,504; Oct. 8.
- Harrison, Linton H., Abilene, Tex. Rail tie and fastening means. 1,705,861; Mar. 19.
- Harrison Mfg. Co. (See Harrison, John A., C. S., and J. E., assignors.)
- Harrison, Monroe, Chicago, Ill. Casing for drink-dispensing machine. Des. 77,830; Feb. 26.
- Harrison, Monroe, Chicago, Ill. Toasting machine or like device. 1,731,742; Oct. 15.
- Harrison, Monroe, Chicago, Ill. Machine for treating food articles. 1,731,743; Oct. 15.
- Harrison, Paul, Scheu Co. (See Scheu, William C., assignor.)
- Harrison Radiator Corporation. (See Muir, Wellington W., assignor.)
- Harrison Radiator Corporation. (See Walker, Norman, assignor.)
- Harrison, Thomas R., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring superheat. 1,721,556; July 23.
- Harrison, William E., Union City, Ind. Bottle opener. 1,739,457; Dec. 10.
- Harrison, William H., Topeka, Kans. Combined stand and garbage container. 1,721,299; July 16.
- Harrold, Charles W., assignor, by mesne assignments, to Harris-Seybold-Potter Company, Cleveland, Ohio. Delivery for printing presses. 1,700,128; Jan. 29.
- Harrold, Charles W., assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet separator. 1,715,358; June 4.
- Harrold, Charles W., assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet separator. 1,715,360; June 4.
- Harrold, Charles W., assignor, by mesne assignments, to Harris-Seybold-Potter Company, Cleveland, Ohio. Slitting attachment. 1,730,006; Oct. 1.
- Harrold, Harvey J., Columbiana, Ohio. Ratchet tool. 1,712,433; May 7.
- Harrold, Harvey J., Columbiana, Ohio. Screw driver. 1,713,434; May 14.
- Harrop Ceramic Service Company, The. (See Cramer, William E., assignor.)
- Harroun, William L., assignor to F. E. Hudson & Sons, Inc., Ellisburg, N. Y. Clicker block. 1,708,308; Apr. 9.
- Harry, Earl L., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,696,951; Jan. 1.
- Harry, Geoffrey M., Milwaukee, and C. Sternberger, West Allis, assignors to Harnischfeger Corporation, Milwaukee, Wis. Brake and clutch bands and making the same. 1,736,913; Nov. 26.
- Harry, Gordon W., assignor to A C Spark Plug Company, Flint, Mich. Outboard-motor tachometer organization. 1,738,772; Dec. 10.
- Harry, Robert J., Hattiesburg, Miss. Horizontal ratchet feed finger for saw grinders. 1,726,620; Sept. 3.
- Harryhausen, Frederick W., Inglewood, Calif. Vehicle luggage carrier. 1,726,149; Aug. 27.
- Harshaw Chemical Company, The. (See Harshaw, W. J., and Homer, assignors.)
- Harshaw Chemical Company, The. (See Harshaw, W. J., and Parke, assignors.)
- Harshaw, William J., Shaker Heights Village, and G. L. Homer, Cleveland, assignors to The Harshaw Chemical Company, Cleveland, Ohio. Extraction of copper-nickel matte. 1,729,423; Sept. 24.
- Harshaw, William J., Shaker Heights Village, and C. S. Parke, assignors, by mesne assignments, to The Harshaw Chemical Company, Cleveland, Ohio. Method of and mechanism for drying materials. 1,729,424; Sept. 24.



- Harshberger, Norman P. (See Theilacker, Frederick E., assignor.)
- Harshberger, Norman P., Chicago, Ill. Composition shingle. 1,717,603; June 18.
- Harshberger, Norman P., Chicago, Ill. Shingle. 1,718,933; June 25.
- Harshberger, Norman P., Chicago, Ill. Shingle. 1,729,830; Oct. 1.
- Harshberger, Russell P., Pasadena, Calif. Rubber heel. 1,710,976; Apr. 30.
- Harshman, Hubert H., Toronto, Ontario, Canada. Display cabinet or container for stationery or other merchandise. 1,726,664; Sept. 3.
- Hart-Albin Co. (See Klein, Matthew, assignor.)
- Hart, Alfred V., Westfield, N. J., and J. T. Hart, Rockville Center, N. Y. Method and apparatus for manufacturing brushes. 1,741,700; Dec. 31.
- Hart, Bert, and Forest Holmes, Carthage, N. Y. Ice-cream-dipper scraper. 1,735,756; Nov. 12.
- Hart, Bessie J., Cranford, N. J. Garment. 1,736,594; Nov. 19.
- Hart & Cooley Company, The. (See Hart, Howard S., assignor.)
- Hart, F. J. (See McGee, Daniel W., assignor.)
- Hart, Frank R., Pacific Grove, Calif. Apparatus facilitating the application of radioactive energy into inaccessible tissue and positions. 1,721,019; July 16.
- Hart, Franklin H., New Haven, and W. A. Carmichael, Hamden, assignors to C. Cowles & Company, New Haven, Conn. Locker-door lock. 1,739,510; Dec. 17.
- Hart, Frederick A., New Britain, Conn., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. 1,702,774; Feb. 19.
- Hart, Frederick A., New Britain, Conn., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. 1,710,685; Apr. 30.
- Hart, Frederick A., New Britain, Conn., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. 1,724,478; Aug. 13.
- Hart, Frederick A., New Britain, Conn., assignor to Remington Accounting Machine Corporation, New York, N. Y. Combined typewriting and computing machine. 1,737,586; Dec. 3.
- Hart, George H., West Hartford, Conn. Apparatus for controlling electric current. 1,708,618; Apr. 9.
- Hart, George H., West Hartford, Conn. Electric time switch. 1,708,619; Apr. 9.
- Hart, George H., West Hartford, Conn. Switch arrangement. 1,715,917; June 4.
- Hart, George H., West Hartford, Conn. Igniting apparatus for burners. 1,724,132; Aug. 13.
- Hart, George H., West Hartford, Conn. Door-lock-controlled switch mechanism. 1,724,930; Aug. 20.
- Hart Grain Weigher Co. (See Hartley, A. J., and Van Houweling, assignors.)
- Hart Grain Weigher Company. (See Van Houweling, Arthur C., assignor.)
- Hart, Harry S., Chicago, Ill. Blasting cartridge. 1,705,248; Mar. 12.
- Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Selective dump car. 1,706,607; Mar. 26.
- Hart & Hegeman Manufacturing Company, The. (See Gates, Frederic P., assignor.)
- Hart & Hegeman Manufacturing Company. (See Guett, Monroe, assignor.)
- Hart, Henry R., Montclair, N. J. Head-protective device. 1,716,550; June 11.
- Hart, Howard C., Russiaville, Ind. Screened ventilating window for automobiles. 1,739,029; Dec. 10.
- Hart, Howard S., assignor to The Hart & Cooley Company, Incorporated, New Britain, Conn. Register and ventilator. 1,711,458; Apr. 30.
- Hart & Hutchinson Company, The. (See Anderson, Gustave H., assignor.)
- Hart & Hutchinson Company, The. (See Hart, Maxwell S., assignor.)
- Hart & Hutchinson Company, The. (See Steele, Maurice G., assignor.)
- Hart, Joseph L., Chickasha, Okla. Cotton gin. 1,703,002; Feb. 19.
- Hart, Joseph T. (See Hart, Alfred V. and J. T.)
- Hart, Julius B., Dotham, Ala. Wheel bearing for trucks and like structures. 1,722,912; July 30.
- Hart, Lester C., Cleveland, Ohio, assignor to Hi-Voltage Equipment Company. High-voltage switch. 1,717,449; June 18.
- Hart, Maxwell S., assignor to The Hart & Hutchinson Company, New Britain, Conn. Locker. 1,716,169; June 4.
- Hart, Russell, Santa Monica, Calif. Photo-electric cell. 1,730,505; Oct. 8.
- Hart, Stephen H., assignor to Lord & Burnham Company, Irvington, N. Y. Sash-operating mechanism. 1,726,621; Sept. 3.
- Hart, Thomas A., Danbury, Conn. Applicator. 1,712,667; May 14.
- Hart, Thomas H., Birmingham, England. Device for ejecting balls from the holes used in ball-putting games. 1,728,547; Aug. 6.
- Hart, William C., Adelaide, South Australia, Australia. Forming labels and the like on wooden containers and the like. 1,707,855; Apr. 2.
- Hart, William E., San Jose, Calif. Liquid-fuel-elevating device for motor vehicles. 1,724,582; Aug. 13.
- Hart, William F., assignor to Verona Tool Works, Pittsburgh, Pa. Rail bond. 1,710,873; Apr. 30.
- Hartbauer, August W. L., Chicago, Ill. Draft-key-retaining device. 1,710,538; Apr. 23.
- Hartcup, John A., Newhouse, England. Indicating elements of measuring instruments. 1,734,430; Nov. 5.
- Harteau, Harry C., Iron Mountain, Mich. Air pump and engine therefor. 1,703,003; Feb. 19.
- Harter, Evan C., Sturgis, Mich. Adjustable chair back. 1,727,058; Sept. 3.
- Harter, Frank E., Seattle, Wash. Cylinder hone. 1,698,590; Jan. 8.
- Harter, Geo. O. Blank, The, administrator. (See Keeports, Harry H.)
- Harter, Hector R., Dayton, Ohio. Distributing manifold for hot-air and vapor cabinets. 1,699,356; Jan. 15.
- Harter, Isaac, Dongan Hills, N. Y., assignor, by mesne assignments, to Fuller Lehigh Company. Furnace. 1,711,147; Apr. 30.
- Harter, Isaac, Dongan Hills, N. Y., assignor, by mesne assignments, to Fuller Lehigh Company. Furnace. 1,712,919; May 14.
- Harter, Isaac, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Making boiler drums. 1,718,233; June 25.
- Harter, Isaac, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Metallic baffle. 1,737,756; Dec. 3.
- Harter, Isaac, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Metallic baffle. 1,737,757; Dec. 3.
- Harter, Isaac, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Metallic baffle. 1,737,758; Dec. 3.
- Harter, Isaac, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Metallic baffle. 1,737,759; Dec. 3.
- Harter, Isaac, Dongan Hills, N. Y., and A. M. Kohler, Jersey City, N. J. Refractory curved arch. 1,733,664; Oct. 29.
- Harter, Isaac, Dongan Hills, N. Y., and A. M. Kohler, Jersey City, N. J. Refractory product and making the same. 1,734,726; Nov. 5.
- Harter, Laban W., Niles, Mich. Stool. 1,716,694; June 11.
- Harter, Ludwig, Dresden, Germany. Detachable wheel rim. 1,725,733; Aug. 20.
- Harter, Ludwig, Fulda, Germany. Determining the behavior of the individual particles of a body when subjected to stress. 1,711,347; Apr. 30.
- Harter, Marion H., assignor to R. D. Douglass, Minneapolis, Minn. Valve pliers. 1,740,591; Dec. 24.
- Harter, Noah S. (See Adkins, F. A., and Harter.)
- Harter, Noah S., Waukegan, Ill. Wire fence fabric. Des. 77,831; Feb. 26.
- Harter, Noah S., assignor to Champion Folding Furniture Company, Waukegan, Ill. Automatically-folding bed-bottom fabric. 1,718,203; June 18.
- Harter, Noah S., Waukegan, Ill., assignor to King Boat Company. Collapsible air-chamber seat. 1,736,155; Nov. 19.
- Harter, Noah S., Waukegan, Ill., assignor to King Boat Company. Aquaplane. 1,736,156; Nov. 19.
- Harter, Noah S., Waukegan, Ill., assignor to King Boat Company. Collapsible pontoon for boats and the like. 1,736,157; Nov. 19.
- Hartfield, August J., Los Angeles, Calif. Heater. 1,699,789; Jan. 22.
- Hartfield, August J., Los Angeles, Calif. Gas burner. 1,712,885; May 14.
- Hartford-Empire Company. (See Amsler, Walter O., assignor.)
- Hartford-Empire Company. (See Barker, William T., jr., assignor.)
- Hartford-Empire Company. (See Black, Jotham F., assignor.)
- Hartford-Empire Company. (See Genest, Homer A., assignor.)
- Hartford-Empire Company. (See Hiller, Everett O., assignor.)
- Hartford-Empire Company. (See Howard, George E., assignor.)
- Hartford-Empire Company. (See Ingle, Henry W., assignor.)
- Hartford-Empire Company. (See Lorenz, Edward H., assignor.)
- Hartford-Empire Company. (See Mathé, Aime, assignor.)
- Hartford-Empire Company. (See Miller, William J., assignor.)
- Hartford-Empire Company. (See Mulholland, Vergil, assignor.)
- Hartford-Empire Company. (See Nagle, Claude, assignor.)
- Hartford-Empire Company. (See Nelson, Ernest G., jr., assignor.)
- Hartford-Empire Company. (See Peiler, Karl E., assignor.)
- Hartford-Empire Company. (See Ripley, Daniel A., assignor.)
- Hartford-Empire Company. (See Schroder, John E., assignor.)
- Hartford-Empire Company. (See Tucker, O. M., and Reeves, assignors.)
- Harthan, Warren P. (See Torrey, J. R., and Harthan.)
- Hartig, Fridolin. (See Hamburger, R., Kaesz, and Hartig.)
- Hartley, Arthur J., Peoria, Ill. Grain elevator. 1,705,473; Mar. 19.



- Hartley, Arthur J., Peoria, Ill. Automatic conveyer-adjustment means. 1,723,481; Aug. 6.
- Hartley, Arthur J., Peoria, Ill., and A. C. Van Houweling, Pella, Iowa, assignors, to Hart Grain Weigher Co., Peoria, Ill. Driving mechanism for conveyers. 1,728,680; Sept. 17.
- Hartley, Charles. (See Oldham, Oliver, assignor.)
- Hartley, Ellis, assignor to Whittin Machine Works, Whitinsville, Mass. Stop motion for spinning machines. 1,711,092; Apr. 30.
- Hartley, John W., Stone, England. Apparatus for separating materials of different density such as coke from clinker, breeze, and the like. 1,717,707; June 18.
- Hartley, Joseph M., Philadelphia, Pa. Apparatus for scoring football games or the like. 1,807,503; Apr. 9.
- Hartley, Lee R., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Quantity-recording mechanism for fluid-dispensing apparatus. 1,731,744; Oct. 15.
- Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Direction finding. 1,700,528; Jan. 29.
- Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound radiator. 1,709,073; Apr. 16.
- Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,711,640; May 7.
- Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave-transferring system. 1,737,843; Dec. 3.
- Hartley, Sanford S., Moundsville, W. Va. Conductor. 1,704,603; Mar. 5.
- Hartley, Seward W., New York, assignor to J. H. Faw, White Plains, N. Y. Brace wrench. 1,723,033; Aug. 6.
- Hartline, William A., Tampa, Fla. Feeder bar. 1,706,923; Mar. 26.
- Hartline, William A., Midland, Mich. Fountain pen. 1,711,845; May 7.
- Hartman, Allen, St. Louis, Mo. Folding umbrella. 1,727,104; Sept. 3.
- Hartman, Carl H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Sheet-material feeding and severing apparatus. 1,718,145; June 18.
- Hartman, Carl H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Sheet-material feed control. 1,718,146; June 18.
- Hartman, Carl H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Method and apparatus for valving bags. 1,719,009; July 2.
- Hartman, Charles, Knox Bay, British Columbia, Canada. Cable-engaging device for replacing bull hooks. 1,708,881; Apr. 9.
- Hartman Electrical Manufacturing Company, The. (See Hartman, Frank O., assignor.)
- Hartman, Frank, Kensington, London, England. Printing appliance. 1,736,912; Nov. 26.
- Hartman, Frank O., assignor to The Hartman Electrical Manufacturing Company, Mansfield, Ohio. Sprayer attachment for vacuum cleaners. 1,713,902; May 21.
- Hartman, George H., Cleveland, Ohio. Wire-stripping machine. 1,722,087; July 23.
- Hartman, George H., Cleveland, Ohio. Bag-filling apparatus. 1,733,345; Oct. 29.
- Hartman, George N., Watertown, Wis. Nontransferable check. 1,704,940; Mar. 12.
- Hartman, Hans, New York, N. Y. Submarine diving and exploration apparatus. 1,715,918; June 4.
- Hartman, Harry, New York, N. Y. Dental appliance. 1,727,643; Sept. 10.
- Hartman, Henry. (See Robinson, R. H., and Hartman.)
- Hartman, Louis H., Toledo, Ohio. Bag-filling machine. 1,696,952; Jan. 1.
- Hartman, Louis H., Toledo, Ohio. Bearing shield. 1,724,931; Aug. 20.
- Hartman, Louis H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Method and apparatus for forming valves in bags. 1,723,164; Aug. 6.
- Hartman, Louis H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Apparatus for valving bags. 1,723,165; Aug. 6.
- Hartman, Louis H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Cutter for paper-bag tubes. 1,739,394; Dec. 10.
- Hartman, Louis H., Toledo, Ohio, assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Valve bag and making same. 1,739,758; Dec. 17.
- Hartman, Max, and J. Käzi, Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Quaternary ammonium compound and making same. 1,737,458; Nov. 26.
- Hartman Trunk Company. (See Ritter, Julius, jr., assignor.)
- Hartman, W. H., et al. (See Anderson, Emil S., assignor.)
- Hartman, Wesley, Jacksonville, Oreg. Lawn sprinkler. 1,702,605; Feb. 19.
- Hartman, William W., Memphis, Tenn. Tool for placing or removing piston-pin retaining rings. 1,740,590; Dec. 24.
- Hartmann, Adolf. (See Eule, Max, assignor.)
- Hartmann, August, Barmen-Langerfeld, Germany, assignor, by mesne assignments, to American Bemberg Corporation. Copper-oxide ammonia-cellulose solution for spinning artificial silk by the stretch-spinning process. 1,728,565; Sept. 17.
- Hartmann, Carl A., Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Acoustic diaphragm. 1,721,625; July 23.
- Hartmann, Erich. (See Rabe, P., Wenk, and Hartmann.)
- Hartmann, Henry S., Milwaukee, assignor to Hartmann Trunk Company, Racine, Wis. Combined trunk curtain. 1,710,700; Apr. 30.
- Hartmann, John. (See Aren, Karl L., assignor.)
- Hartmann, Julius F. G. P., Copenhagen, Denmark. Electric jet-wave commutator and interrupter. 1,708,061; Apr. 9.
- Hartmann-Malcolm Company. (See Hansen, Jacob M., assignor.)
- Hartmann, Miner L., and M. C. Miller, assignors to The Carborundum Company, Niagara Falls, N. Y. Rectifying element. 1,708,571; Apr. 9.
- Hartmann, Miner L., and M. C. Miller, assignors to The Carborundum Company, Niagara Falls, N. Y. Detector. 1,708,572; Apr. 9.
- Hartmann, Miner L., and M. C. Miller, assignors to The Carborundum Company, Niagara Falls, N. Y. Receiving system for high-frequency electrical oscillations. 1,708,573; Apr. 9.
- Hartmann, Otto. (See Schmidt, W., and Hartmann.)
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. High-pressure steam-boiler plant for portable engines. 1,700,480; Jan. 29.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-G. m. b. H., Cassel-Wilhelmshöhe, Germany. Apparatus for indirect generation of steam for locomotives. 1,719,010; July 2.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft mit beschränkter Haftung, Cassel-Wilhelmshöhe, Germany. Superheating of steam in steam-generating installations for high-pressure and highly-superheated steam. 1,723,697; Aug. 6.
- Hartmann, Otto H., assignor to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Traveling plant for the generation of high-pressure steam. 1,726,106; Aug. 27.
- Hartmann, Otto H., Cassel-Wilhelmshöhe, and W. Jung, Cassel, assignors to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Locomotive boiler and operating the same. 1,714,505; May 28.
- Hartmann, Otto H., Cassel-Wilhelmshöhe, and P. Thomsen, Cassel, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. High-pressure steam boiler. 1,716,053; June 4.
- Hartmann, Otto H., and F. Wempe, assignors to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmshöhe, Germany. Apparatus for regulating the working of steam-generating plants. 1,712,497; May 14.
- Hartmann Trunk Company. (See Hartmann, Henry S., assignor.)
- Hartmann Trunk Company. (See Ritter, Alois A., assignor.)
- Hartmann Trunk Company. (See Ritter, Julius, jr., assignor.)
- Hartmann Trunk Company. (See Ritter, J., and Wisby, assignors.)
- Hartmann Trunk Company. (See Sand, S., and Ritter, assignors.)
- Hartmann Trunk Company. (See Wisby, Marius J., assignor.)
- Hartnacke, Margaret T., Grand Rapids, Mich. Playing card. Des. 78,159; Apr. 2.
- Hartness, James, Springfield, Vt. Automatic die. 1,704,741; Mar. 12.
- Hartness, James, Springfield, Vt. Gauge for screw threads. 1,714,780; May 28.
- Hartness, James, and R. W. Porter, Springfield, Vt. Optical comparator. 1,703,933; Mar. 5.
- Hartney, John F., and G. R. Larkin, assignors to The Flash Fire Extinguisher Company, Dayton, Ohio. Fire extinguisher. 1,710,163; Apr. 23.
- Hartog, Stephen D., St. Louis, Mo., assignor to H. J. Hater, Cincinnati, Ohio. Piston. 1,730,885; Oct. 8.
- Hartog, Stephen D., St. Louis, Mo., assignor to H. J. Hater, Cincinnati, Ohio. Piston. 1,732,361; Oct. 22.
- Hartogs, Jacques C., Arnhem, Netherlands. Tying up of yarns. 1,709,722; Apr. 16.
- Hartshorn, Stewart, Company. (See Hartshorn, Stewart, assignor.)
- Hartshorn, Stewart, Short Hills, N. J., assignor to Stewart Hartshorn Company. Shade roller. 1,725,269; Aug. 20.
- Hartshorn, Stewart, Short Hills, N. J., assignor to Stewart Hartshorn Company. Shade roller. 1,725,270; Aug. 20.
- Hartshorn, Willis N., assignor to Racine Confectioners' Machinery Company, Racine, Wis. Candy-making machine. 1,708,062; Apr. 9.
- Hartson, Earl S., Los Angeles, Calif. Oil-well-tool jar. 1,717,972; June 18.
- Hartsough, Ralph C., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic probe for surgical purposes. 1,726,349; Aug. 27.
- Hartstoff-Metall Aktiengesellschaft (Hametag). (See Podszus, Emil, assignor.)



- Hartstoff-Metall Aktiengesellschaft (Hametag). (See Podszus, E., and Kramer, assignors.)
- Hartung, Adalberto G., Buenos Aires, Argentina. Grip tensor for antisliding chains. 1,708,620; Apr. 9.
- Hartung, Carl A., Berlin, Germany. Sterilization of liquids. 1,714,366; May 21.
- Hartwagner, Ludwig, Dresden, assignor to the firm of Sachsenwerk, Licht-und Kraft-Aktiengesellschaft, Niedersiedlitz, near Dresden, Germany. Apparatus for the compensation of asynchronous machines by shunt commutator motors connected in cascade. 1,723,732; Aug. 6.
- Hartwell, Benjamin F., Winchester, Mass. Heel breasting and pressing machine. 1,738,533; Dec. 10.
- Hartwell, Benjamin F., Winchester, Mass. Machine for making laminated counter blanks and other articles. 1,739,670; Dec. 17.
- Hartwell, Benjamin N., assignor to The Kilgore Mfg. Company, Westerville, Ohio. Detonating device. 1,703,446; Feb. 26.
- Hartwell, Will H. (See Dempsey, Charles H., assignor.)
- Hartwig, William G., assignor to Railway Utility Company, Chicago, Ill. Relay. 1,700,814; Jan. 29.
- Hartwig, William G., assignor to E. J. Magerstadt, Chicago, Ill. Thermostatic control for ice machines and the like. 1,729,720; Oct. 1.
- Hartwig, William G., assignor to Railway Utility Company, Chicago, Ill. Electric heating system for street cars and the like. 1,730,366; Oct. 8.
- Hartwig, William G., assignor to Railway Utility Company, Chicago, Ill. Safety device for switches. 1,731,417; Oct. 15.
- Harty, Ralph V., Detroit, Mich. Hinged doors. 1,724,652; Aug. 13.
- Harty, William A., Buffalo, N. Y., and F. W. Moore, Thorold, Ontario, Canada, assignors to Harmor & Co. Inc., Buffalo, N. Y. Rotary drier. 1,733,826; Dec. 10.
- Hartynyi, Michael. (See Ney, E. J., and Hartynyi.)
- Hartz, Arthur W., Bay City, Mich. Vehicle body. Des. 78,572; May 21.
- Hartz, Barge L., Elyria, Ohio, assignor to The Pfandl Co., Rochester, N. Y. System or apparatus for holding milk. 1,702,897; Feb. 19.
- Hartzell, Albert, Yonkers, and F. H. Lathrop, Geneva, N. Y., assignors to W. C. O'Kane, Durham, N. H., and P. Moore, trustees of the Crop Protection Institute, Washington, D. C. Colloidal sulphur and making same. 1,705,862; Mar. 19.
- Hartzell, Forest H. (See Summers, C. E., and Hartzell.)
- Hartzell, Forest H., Dayton, Ohio. Electroplating apparatus. 1,697,240; Jan. 1.
- Hartzell, Harry A., and H. F. Hooper, Harrisburg, Pa. Rumble-seat inclosure. 1,707,121; Mar. 26.
- Hartzell, Herman L., Anderson, Ind. assignor to Delco-Remy Corporation, Dayton, Ohio. Vibratory regulator. 1,724,197; Aug. 13.
- Hartzell Industries, Inc. (See Reymiller, John L., assignor.)
- Harvard, Louie S. and S. L., Live Oak, Fla. Protective case for books and bookmarkers. 1,734,376; Nov. 5.
- Harvard, Susie L. (See Harvard, Louie S. and S. L.)
- Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
- Harvey, Albert L., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,705,728; Mar. 19.
- Harvey, Alfred D., Lanham, Md., assignor to one-fourth to C. A. M. Wells, Washington, D. C., one-fourth to T. H. Welsh, Hyattsville, Md. and one-half to M. H. Duckett, Lyon Park, Va. Vending machine. 1,708,621; Apr. 9.
- Harvey, Cavour A., and G. N. Hanson, Minneapolis, Minn. Window wiper. 1,699,357; Jan. 15.
- Harvey Clap & Co. (See Person, Axel, assignor.)
- Harvey, Corbon L., Detroit, Mich. Ledger lock. 1,700,223; Jan. 29.
- Harvey, Ellery H., Lansdale, Pa., assignor, by mesne assignments, to Perkins Glue Company. Vegetable-glue base. 1,726,824; Sept. 3.
- Harvey, George H., Middletown, assignor to The Black-Clawson Company, Hamilton, Ohio. Paper-making machine. 1,736,400; Nov. 19.
- Harvey, George W., Medford, Mass. Police nipper. 1,700,047; Jan. 22.
- Harvey, Harold C., Trenton, assignor to The Agasote Mill-board Company, Ewing Township, N. J. Steel-coated board. 1,719,607; July 2.
- Harvey, Harry B., assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio. Pipe bender. 1,741,935; Dec. 31.
- Harvey, Hugh J., Locust Gap, Pa. Towel rack. 1,717,973; June 18.
- Harvey, John L., assignor to Chain Belt Company, Milwaukee, Wis. Electric heating apparatus. 1,720,416; July 9.
- Harvey, Martha, Vancouver, Wash. Undergarment fastener. 1,705,113; Mar. 12.
- Harvey, Mary J., executrix. (See Harvey, William F.)
- Harvey, Minor. (See Bayard, M. L., and Harvey.)
- Harvey, Mortimer T., New York, N. Y., assignor to The Harvel Corporation. Resin from cashew-nut-shell oil. 1,725,791; Aug. 27.
- Harvey, Mortimer T., New York, N. Y., assignor to The Harvel Corporation. Cashew-nut-shell oil-reaction product and producing the same. 1,725,792; Aug. 27.
- Harvey, Mortimer T., New York, N. Y., assignor to The Harvel Corporation. Substitute for shellac and the like. 1,725,793; Aug. 27.
- Harvey, Mortimer T., New York, N. Y., assignor to The Harvel Corporation. Reaction product of cashew-shell oil and process. 1,725,794; Aug. 27.
- Harvey, Mortimer T., New York, N. Y., assignor to The Harvel Corporation, Newark, N. J. Process, steps, and product of reaction of cashew-nut-shell oil. 1,725,795; Aug. 27.
- Harvey, Mortimer, T., Irvingston, N. J., assignor to The Harvel Corporation. Modified cashew-shell-liquid composition and method of producing. 1,725,796; Aug. 27.
- Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Cashew-nut-shell oil condensation product and making same. 1,725,797; Aug. 27.
- Harvey, Robert P., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 77,832; Feb. 26.
- Harvey, Rodney B., St. Paul, assignor to University of Minnesota, Minneapolis, Minn. Blanching celery and other green vegetables. 1,721,595; July 23.
- Harvey, Thomas C., Columbia, Utah. Loader truck. 1,716,170; June 4.
- Harvey, William A., Scranton, Pa. Handle. 1,708,882; Apr. 9.
- Harvey, William D., assignor to American Steel Products Co., Macomb, Ill. Egg tray for incubators. 1,715,755; June 4.
- Harvey, William D., assignor to American Steel Products Co., Macomb, Ill. Incubator heater. 1,735,246; Nov. 12.
- Harvey, William F., deceased, Lima, N. Y.; M. J. Harvey, executrix. Forming a cement-receiving surface on an insulator section. 1,731,099; Oct. 8.
- Harvis, George, Detroit, Mich. Electric shaving cup. 1,696,953; Jan. 1.
- Harvis, George, Detroit, Mich. Electric heating device. 1,741,625; Dec. 31.
- Harwell, W. W. (See Dougherty, Wilber V., assignor.)
- Harwig, Carl G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Automatic train recorder. 1,741,936; Dec. 31.
- Harwood, George S., and Son. (See Howe, Joseph B., assignor.)
- Harwood, Paisley B., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor controller. 1,736,401; Nov. 19.
- Harz, Hermann, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator system. 1,725,137; Aug. 20.
- Hasalene, Amalia, assignor of one-half to T. Scarpel, San Francisco, Calif. Safety mat for bathtubs. 1,702,635; Feb. 19.
- Hasbrouck, Louis B., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Dyeing apparatus. 1,705,761; Mar. 19.
- Hasbrouck, Louis B., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Holder for yarn cones. 1,705,762; Mar. 19.
- Hasbrouck, Louis B., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Injector needle. 1,705,763; Mar. 19.
- Hasbrouck, Louis B., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Dyeing apparatus. 1,726,984; Sept. 3.
- Haselmeier, Wilhelm. (See Kazmazzyk, Josef, assignor.)
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,700,260; Jan. 29.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 1,703,271; Feb. 26.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,703,307; Feb. 26.
- Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Side bearing. 1,710,212; Apr. 23.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 1,710,213; Apr. 23.
- Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,720,124; July 9.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism for refrigerator cars. 1,720,125; July 9.
- Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,730,205; Oct. 1.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,730,206; Oct. 1.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,738,702; Dec. 10.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,738,703; Dec. 10.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,739,229; Dec. 10.
- Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,741,627; Dec. 31.
- Haseltine, William C. (See Bowman, John G., assignor.)
- Haselton, Frederick R., St. Paul, Minn. Marking device. 1,719,838; July 9.
- Hasenstab, Bernhard, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Grille for loud-speakers. Des. 79,026; July 23.



- Hasenstab, Bernhard, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table standard. Des. 79,027; July 23.
- Hasenstab, Bernhard, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Bench standard. Des. 79,028; July 23.
- Hasett, J. John, et al. (See MacBlane, James, assignor.)
- Hashimoto, Lois H., Salt Lake City, Utah. Artificial-flower clothes ornament. Des. 79,884; Nov. 12.
- Haskelite Manufacturing Corporation. (See Curran, Frank M., assignor.)
- Haskelite Manufacturing Corporation. (See Meyercoed, G. R., and Curran, assignors.)
- Haskell, Broderick, Franklin, Pa. Railroad tie. 1,725,348; Aug. 20.
- Haskell, G. Austin, et al. (See Baker, Elbridge, assignor.)
- Haskell, Raymond. (See MacKenzie, K. G., and Haskell.)
- Haskett, John C. (See Coffin, A. B., and Haskett.)
- Haskin, Walter E., New York, assignor to Pressed and Welded Steel Products Company, Long Island City, N. Y. Bookstand. 1,715,233; May 28.
- Haskins, Butler J., Chicago, Ill., assignor to Joseph Weidenhoff, Incorporated. Battery-charging bench. 1,729,109; Sept. 24.
- Haskins, Harry T. (See Phelps, L. W., and Haskins.)
- Haskins, Howard B. (See Sattler, C., and Haskins.)
- Haskins, Howard B., assignor, by mesne assignments, to the Dura Company, Toledo, Ohio. Device for connecting window regulators to windows. 1,696,911; Jan. 1.
- Haskins, Howard B., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Window-regulator mechanism. 1,721,907; July 23.
- Hasler, Robert H., Indianapolis, Ind. Manually-operable head-massaging device. 1,713,756; May 21.
- Haslett, Elmer. (See Meyer, Arthur L., assignor.)
- Haslett, Elmer, San Francisco, Calif. Massage outfit. 1,714,557; May 28.
- Haslett, Matthew A., Ocean Falls, British Columbia, Canada. Head-fastening device. 1,725,917; Aug. 27.
- Hasling, John, jr., Baltimore, Md., assignor, by mesne assignments, to The Fleischmann Company. Yeast manufacture. 1,722,746; July 30.
- Haslinger, Joseph A., Tampashores, Fla. Shock absorber for doorknobs. 1,710,619; Apr. 23.
- Haspel, Harry S., et al. (See Haspel, Joseph, assignor.)
- Haspel, Joseph, assignor of one-third to H. S. Haspel and one-third to W. Haspel, New Orleans, La. Trousers. 1,699,394; Jan. 15.
- Haspel, Joseph, assignor of one-third to H. S. Haspel and one-third to W. Haspel, New Orleans, La. Garment. 1,719,700; July 2.
- Haspel, William, et al. (See Haspel, Joseph, assignor.)
- Hass, Hans, Bergedorf, near Hamburg, Germany. Stern frame with balanced rudder for ships. 1,704,434; Mar. 5.
- Hasse, Frank C., La Grange, Ill., assignor to United Chromium Incorporated, New York, N. Y. Angle bar for joining rails. 1,719,824; July 9.
- Hasselbring, John, jr., Woodhaven, assignor to Royalty Holding Corporation, Brooklyn, N. Y. Starter for internal-combustion engines. 1,739,069; Dec. 10.
- Hasselkus, William E. B., Jamaica, assignor to International Motor Company, New York, N. Y. Reversible-seat mechanism. 1,720,474; July 9.
- Hasselkus, William E. B., Jamaica, assignor to International Motor Company, New York, N. Y. Full-vision windshield. 1,728,240; Sept. 17.
- Hasselquist, Hugo S., Chicago, Ill. Pencil. 1,720,417; July 9.
- Hassensall, Louis W., Aiken, S. C. Device for cooling liquids. 1,712,701; May 14.
- Hassensall, Louis W., Aiken, S. C. Beverage dispensing and cooling apparatus. 1,730,728; Oct. 8.
- Hassensall, Louis W., Toledo, Ohio. Device for cooling liquids. 1,740,509; Dec. 24.
- Hassinger, Louis. (See Tracser, A. H., and Hassinger.)
- Hassler, Frank, Detroit, Mich. Apparatus for correcting muscular defects. 1,703,104; Feb. 26.
- Hassler, Robert H., Indianapolis, Ind. Massage machine. 1,709,170; Apr. 16.
- Hassler, Robert H., Indianapolis, Ind. Massage machine. 1,710,643; Apr. 23.
- Hassler, Robert H., Indianapolis, Ind. Massaging machine. 1,710,822; Apr. 30.
- Hassler, Robert H., Indianapolis, Ind. Massaging device. 1,711,889; May 7.
- Hassler, Robert H., Indianapolis, Ind. Massaging device. 1,712,764; May 14.
- Hassler, Robert H., Indianapolis, Ind. Massage element. 1,726,560; Sept. 3.
- Hassold, Karl, assignor to Armaturen- & Maschinenfabrik A.-G. vorm J. A. Hilpert, Nuremberg, Germany. Valve for hydraulic mains. 1,710,214; Apr. 23.
- Hasting, Homer, Detroit, Mich. Tire-pump valve. 1,737,536; Nov. 26.
- Hasting, Homer, Detroit, Mich. Tire valve. 1,740,173; Dec. 17.
- Hastings, Herbert, Rochester, N. Y. Measuring and indicating the volume of liquid in a storage tank. 1,712,038; May 7.
- Hastings, Milton B., Toronto, Ontario, Canada. Lamp frame. 1,697,005; Jan. 1.
- Hastings, Rolland T. R., Highland Park, Ill. Hand brush. 1,723,349; Aug. 6.
- Hastings, Rolland T. R., Highland Park, Ill. Card-filing system. 1,734,128; Nov. 5.
- Hastings, Stephen H., and C. C. Hall, Litchfield Park, Ariz., assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Attachment for cotton gins. 1,721,300; July 16.
- Hastings, William H. (See Hamilton, James C., assignor.)
- Hasty, John B., San Bernardino, Calif. Nail-driving device. 1,722,330; July 30.
- Hatashita, Sezo, Lima, Ohio. Trailer. 1,734,969; Nov. 12.
- Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Powdering machine. 1,718,418; June 25.
- Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Poultry coop or crate. 1,727,466; Sept. 10.
- Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Coating machine. 1,741,155; Dec. 31.
- Hatch, Fred P., Wollaston, Mass. Demountable rim. 1,737,236; Nov. 26.
- Hatch, John, Gold Pines, Ontario, Canada. Boiler water preheater. 1,715,919; June 4.
- Hatch, Meredith R. (See Schloz, A. H., and Hatch.)
- Hatch, Nathan, Albany, N. Y. Garment. 1,737,882; Dec. 3.
- Hatch, William A., East Cleveland, assignor to The Chilcote Company, Cleveland, Ohio. Display device. 1,711,199; Apr. 30.
- Hatcher, Abraham L., Amarillo, Tex. Curtain hanger. 1,733,060; Oct. 22.
- Hatcher, Fonzia E., Richmond, Va. Advertising stand. 1,734,804; Nov. 5.
- Hatcher, J. F., et al. (See Jenkins, John H., assignor.)
- Hatcher, James L., U. S. Army, Winchester, Va. Sight mount for guns. 1,710,022; Apr. 23.
- Hatcher, James L., Winchester, Va. Combination mount for machine guns. 1,722,629; July 30.
- Hatcher, Lloyd. (See Gordon, B. E., and Hatcher.)
- Hatcher, Oscar M. (See Street, John, assignor.)
- Hatcher, Samuel P. (See Couch, C. A., and Hatcher.)
- Hater, Harry J. (See Hartog, Stephen D., assignor.)
- Hater, Harry J. (See Rindberg, Harry D., assignor.)
- Hatfield, Arthur E. (See Allott, E. A., and Hatfield.)
- Hatfield, Arthur E., Leytonstone, London, assignor of one-half to Achille Serre Limited, Hackney Wick, England. Purifying dry-cleaning solvent. 1,704,604; Mar. 5.
- Hatfield, Arthur E., Leytonstone, and E. A. Allott, Greenbank, Chesham Bois, England. Manufacture and production of soap. 1,728,342; Sept. 17.
- Hatfield, Arthur E., Leytonstone, and E. A. Allott, Greenbank, Chesham Bois, England. Cleaning process. 1,728,343; Sept. 17.
- Hatfield-Crabbe Company, The. (See Hatfield, M. J., and Crabbe, assignors.)
- Hatfield, Maurice J., and E. W. Crabbe, assignors to The Hatfield-Crabbe Company, Bridgeport, Conn. Automobile jack. 1,711,565; May 7.
- Hatfield, Robert L. (See Fonda, D. C., and Hatfield.)
- Hatfield, Schuyler C., Baltimore, Md. Felly. 1,698,055; Jan. 8.
- Hatfield, Schuyler C., Baltimore, Md. Hub tire. 1,702,081; Feb. 12.
- Hatfield, Schuyler C., Baltimore, Md. Core for single-tube tires. 1,704,538; Mar. 5.
- Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Manufacturing yarn spools. 1,729,267; Sept. 24.
- Hathaway, Edgar F., Wellesley, and W. Bixby, Dorchester, assignors to Shawmut Engineering Company, Boston, Mass. Tuft-pile-fabric loom. 1,709,572; Apr. 16.
- Hathaway, Edgar F., Wellesley, and W. Bixby, assignors to Shawmut Engineering Company, Boston, Mass. Axminster loom. 1,742,167; Dec. 31.
- Hathaway, Edward A., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,730,848; Oct. 8.
- Hathaway, Harlow H., Los Angeles, Calif. Burglarproof key lock. 1,731,418; Oct. 15.
- Hathaway, J. Willis, Cecil County, Md. Intake for milk cans. 1,703,583; Feb. 26.
- Hathorn, Otho C., Dayton, Ohio. Illuminated tire cover. 1,724,281; Aug. 13.
- Hatlestad, Sevat, et al. (See Tweet, John B., assignor.)
- Hatmaker, James R., Paris, France. Protecting metal, wood, and other substances and objects so protected. 1,720,177; July 9.
- Hatten, William V., et al. (See Leak, William, assignor.)
- Hatzl, Joseph M., Forman, N. Dak. Boat. 1,705,402; Mar. 12.
- Häuber, Hans. (See Finkelstein, H., and Häuber.)
- Haubroe, Werner C. L., Copenhagen, Denmark. Three-legged support for machine guns. 1,728,757; Sept. 17.
- Hauch, Wendell M., assignor to Terri Inc., New York, N. Y. Combination cigarette and vanity case. 1,731,008; Oct. 8.
- Hauck, Harry B., and J. T. Barlow, Philadelphia, Pa. Font of type. Des. 78,872; June 25.
- Hauck Manufacturing Company. (See Elze, Walter C., assignor.)
- Hauck Manufacturing Company. (See Schumann, Alfred F., assignor.)
- Hauck, William H., Utica, S. Dak. Pipe puller for wells. 1,728,544; Sept. 17.



- Haucke, John G. (See Yorde, C. C., and Haucke.)
- Hauenstein, Paul A., assignor to Vimco Mfg. Company, Inc., Buffalo, N. Y. Electrical-current tap plug or connector. 1,731,661; Oct. 15.
- Hauer, Leon C., West View, Pa. Marking machine. 1,724,085; Aug. 13.
- Hauff, Frederick, assignor to The General Novelty Company, Akron, Ohio. Inflatable toy. Des. 78,022; Mar. 19.
- Hauff, Frederick, assignor of one-half to J. D. Slater, Akron, Ohio. Inflated toy. 1,714,558; May 28.
- Haug, Anton J., Nashua, N. H. Method of and apparatus for forming a web in paper making. 1,708,724; Apr. 9.
- Haug, Anton J., Nashua, N. H. Packing. 1,715,597; June 4.
- Haug, Anton J. and R. J., Nashua, N. H.; said R. J. Haug assignor to said Anton J. Haug. Process and machine for thickening pulp. 1,717,604; June 18.
- Haug, Herman, assignor to Golding Bros. Company, New York, N. Y. Textile fabric. Des. 77,485; Jan. 15.
- Haug, Herman, assignor to Golding Brothers Company, New York, N. Y. Textile panel for mattress coverings. Des. 77,548; Jan. 22.
- Haug, Herman, assignor to Golding Brothers Company, New York, N. Y. Textile panel for mattress coverings. Des. 77,549; Jan. 22.
- Haug, Herman, assignor to Golding Brothers Company, New York, N. Y. Textile panel for mattress coverings. Des. 77,693; Feb. 12.
- Haug, Herman, assignor to Golding Bros. Company, New York, N. Y. Textile fabric or similar article of manufacture. Des. 77,953; Mar. 12.
- Haug, Richard J. (See Haug, Anton J. and R. J.)
- Hauge, Obie R., Ellsworth Township, Hamilton County, Iowa. License-certificate holder for motor vehicles. 1,729,872; Oct. 1.
- Hauge, Oscar, San Mateo, Calif. Pastry container. Des. 78,691; June 4.
- Haughey, Edward, Bronx, N. Y. Cleaning and polishing fluid. 1,730,654; Oct. 8.
- Haught, Harry E., Wilkensburg, Pa. Combination pen and pencil. 1,738,367; Dec. 3.
- Haughton Elevator and Machine Company, The. (See Brubaker, John A., assignor.)
- Haughton Elevator & Machine Company, The. (See Brubaker, John A., assignor.)
- Haughton Elevator & Machine Company, The. (See Thurston, Ernest B., assignor.)
- Haughton Elevator & Machine Company, The. (See Thurston, E. B., and Ohler, assignors.)
- Haughton Elevator and Machine Company, The. (See Turner, F. F., and Brubaker, assignors.)
- Haughton, Frank A., Schenectady, N. Y., assignor to General Electric Company. Making field rings. 1,728,895; Sept. 17.
- Haughton, John W., Cullybackey, Northern Ireland. Beetling engine. 1,710,824; Apr. 30.
- Haultain, Herbert E. T., Toronto, Ontario, Canada. Method of and apparatus for indicating the size of the particles in ore pulp flowing in conduits. 1,697,867; Jan. 8.
- Hauman, Earl L., Hamburg, assignor to The Exolon Company, Blasdel, N. Y. Method, apparatus, and product of treating refractory material. 1,702,942; Feb. 19.
- Hauman, Earl L., Hamburg, assignor to The Exolon Company, Blasdel, N. Y. Separation of refractory materials. 1,703,065; Feb. 19.
- Haumann, George, Chicago, Ill. Automatic book-leaf-turning machine. 1,699,662; Jan. 22.
- Haun, Edgar T., San Diego, Calif. Casement-window operator. 1,714,907; May 28.
- Haupt, Betsey C., New York, N. Y. Child's carriage or similar article. Des. 79,294; Aug. 27.
- Haupt, Charles H., Elizabeth, N. J., assignor to Standard Oil Development Company. Sealing floating roofs. 1,735,461; Nov. 12.
- Haupt, Hans, Berlin, Germany. Telescopic umbrella. 1,707,910; Apr. 2.
- Haupt, Richard E., Jr., and W. F., Hillside, N. J. Rotary-shaft lock. 1,700,049; Jan. 22.
- Haupt, Walter F. (See Haupt, Richard E., Jr., and W. F.)
- Haupt, William F., Orange, assignor to The Bates Manufacturing Company, West Orange, N. J. Numbering machine. 1,706,692; Mar. 26.
- Hauptvogel, Friedrich, Vienna, Austria. Apparatus for the prevention of incrustations and corrosion on metallic surfaces. 1,726,738; Sept. 3.
- Hauschka, Rudolf, Cologne-Westhoven, Germany, assignor to G. Ricardo, Dornach, Switzerland. Manufacturing lanoilike compositions. 1,728,205; Sept. 17.
- Hause, Fred E., Asbury Park, and J. Zollinger, Oakhurst, N. J., assignors of one-half to New Jersey Sand and Gravel Company, Spring Lake, N. J. Centrifugal pump. 1,727,703; Sept. 10.
- Hausenluck, William A., Washington, D. C. Anchor raising and lowering means. 1,739,359; Dec. 10.
- Hauser, Bonner B., Hill City, S. Dak. Fence post and fence-attaching staple therefor. 1,719,109; July 2.
- Hauser, Edward, New York, N. Y. Lady's girdle. 1,715,234; May 28.
- Hauser, Edward, New York, N. Y. Hose supporter. 1,718,819; June 25.
- Hauser, Ernest A., Frankfort-on-the-Main, Germany, assignor to K. D. P. Limited, London, England. Manufacture of rubber. 1,729,651; Oct. 1.
- Hauser, George D., assignor to Utica Products, Inc., Utica, N. Y. Electric heater. 1,702,775; Feb. 19.
- Hauser, George D., Utica, assignor to Utica Products, Inc., New York, N. Y. Electric heater. 1,724,198; Aug. 13.
- Hauser, Hans. (See Weber, J., and Hauser.)
- Hauserman, E. F., Company, The. (See Bohnsack, John A., assignor.)
- Hauserman, E. F., Company, The. (See Hauserman, E. F., Mowery, and Bohnsack, assignors.)
- Hauserman, E. F., Company, The. (See Hauserman, E. F., Mowery, McClenaghan, and Murrell, assignors.)
- Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland, and W. R. McClenaghan and T. E. Murrell, Detroit, Mich., assignors to The E. F. Hauserman Company, Cleveland, Ohio. Metal partition. Re17,440; Sept. 24.
- Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland, and J. A. Bohnsack, East Cleveland, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Wall-support structure. Re17,547; Dec. 31.
- Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland, and J. A. Bohnsack, East Cleveland, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Wall-support structure. 1,725,349; Aug. 20.
- Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland, and J. A. Bohnsack, East Cleveland, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Interchangeable partition insert. 1,725,350; Aug. 20.
- Haushalter, Fred L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Lineman's blanket. 1,728,545; Sept. 17.
- Hausmann, Lemuel M., Highland Park, assignor to Square D Company, Detroit, Mich. Electrical fitting. 1,737,718; Dec. 3.
- Hausmann, William F., assignor to The American Hardware Corporation, New Britain, Conn. Lock. 1,700,129; Jan. 29.
- Haustotte, Oscar E., Portland, Oreg. Turbine. 1,734,332; Nov. 5.
- Haustein, Charles, Mobile, Ala. Eyeshield. 1,706,667; Mar. 26.
- Havanna Manufacturing Co. (See Over, William E., assignor.)
- Havekost, John T., Elmhurst, N. Y., and J. E. Simonds, Detroit, Mich. Vacuum-tube base. 1,724,709; Aug. 13.
- Havel, Frank, assignor to S. Karpen & Bros., Chicago, Ill. Chair or similar article. Des. 79,330; Sept. 3.
- Havel, Joseph, New York, N. Y., assignors to Jos. Brandt & Bro., New York, N. Y. Ribbon-edged braid. 1,714,309; May 21.
- Havemeyer, John F., Ardsley-on-Hudson, N. Y. Beam. 1,707,008; Mar. 26.
- Haven, William A., Youngstown, Ohio. Blast-furnace operation. 1,738,577; Dec. 10.
- Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Rivet-setting machine. 1,707,911; Apr. 2.
- Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Oil cup. 1,711,230; Apr. 30.
- Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Rivet-setting machine. 1,716,852; June 11.
- Havener, Arthur R., Wayland, assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Machine for attaching rivets to articles. 1,730,140; Oct. 1.
- Havener, Gilbert H., Chillicothe, Ohio. Combination baby bath and dressing cabinet. 1,724,479; Aug. 13.
- Havens, William, Topeka, Kans. Ventilator. 1,713,870; May 21.
- Haverfield, Brice W., Chicago, Ill. Merchandise-display desk. Des. 79,361; Sept. 10.
- Haverstick, Earl J., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Short-circuiting device. 1,735,114; Nov. 12.
- Haveson, Herman, Trenton, N. J., assignor, by mesne assignments, to Finch Corporation. Run-repair needle. 1,727,769; Sept. 10.
- Havins, John L., Baton Rouge, La. Nursing bottle and nipple construction. 1,701,566; Feb. 12.
- Havlicek, Frank, assignor of 30 per cent to A. Supper, Windsor, Ford City, Ontario, Canada. Gem stick holder. 1,730,767; Oct. 8.
- Hawaiian Canneries Company. (See Taylor, Robert B., assignor.)
- Hawes, Charles L., assignor of one-half to C. Strassheim, Chicago, Ill. Automobile radiator ornament. Des. 79,362; Sept. 10.
- Hawes, George B., Bridgeport, Conn. Record card. 1,723,648; Aug. 6.
- Hawes, Herbert A., Coldwater, Mich. Crank-case cleaner and humidifier. 1,733,154; Oct. 29.
- Hawes, Jesse J., Henryetta, Okla. Container for artificial fish lures. 1,736,343; Nov. 19.
- Hawes, Ralph M., London, England. Collar for personal wear. 1,703,584; Feb. 26.
- Hawk, Nathaniel H., Sandy, Oreg. Drag saw. 1,712,270; May 7.
- Hawke, Clarence E., Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Fuel-burning apparatus. 1,734,486; Nov. 5.
- Hawkes, Arthur G., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Bus roof or the like. 1,706,527; Mar. 26.



- Hawkesworth, Alan S., Washington, D. C. Manufacture of nitrocellulose smokeless powder. 1,713,505; May 14.
- Hawkins, Agnes, Dallas, Tex. Detachable ventilated adjustable hat lining. 1,716,269; June 4.
- Hawkins, Agnes C., Orofino, Idaho. Child's seat attachment for water-closet seats. 1,710,620; Apr. 23.
- Hawkins, Alda F., Fort Worth, Tex. Vehicle propeller for endless conveyers. 1,740,014; Dec. 17.
- Hawkins, Arthur T. (See Mitchell, R. J., and Hawkins.)
- Hawkins, Arthur W., Muskegon, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable chair. 1,701,922; Feb. 12.
- Hawkins, Arthur W., Muskegon, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-beam chair. 1,701,923; Feb. 12.
- Hawkins, Charles A., San Francisco, Calif. Vehicle suspension. 1,721,732; July 23.
- Hawkins, Cyrus, Camden, N. J., assignor to Hires, Castner & Harris, Inc., Philadelphia, Pa. Cloth wiper for power plate printing. 1,736,402; Nov. 19.
- Hawkins, Earl C., Buffalo, N. Y. Butter mold. 1,730,038; Oct. 1.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-cutting machine. 1,698,230; Jan. 8.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Tube-cutting machine. 1,698,264; Jan. 8.
- Hawkins, Edgar M., assignor to M. D. Knowlton Company, Rochester, N. Y. Mandrel for tube-cutting machines. 1,711,942; May 7.
- Hawkins, Fred, Everett, Mass. Machine for and method of building heels. 1,732,362; Oct. 22.
- Hawkins, George, Detroit, Mich. Tube closure. 1,739,303; Dec. 10.
- Hawkins, Harry. (See Seal, F. H., and Hawkins.)
- Hawkins, Leon A. (See Welch, F. J., Hawkins, and Hagenlocker, assignors.)
- Hawkins-Lent, Ida, Administratrix. (See Lent, Alvah E., and A. D.)
- Hawkins, Luty, Mount Vernon, Ill. Incubator. 1,738,368; Dec. 3.
- Hawkins, Nettie M., et al. (See Fowler, Daniel E., assignor.)
- Hawkins, Ottas G. (See Welch, F. J., Hawkins, and Hagenlocker.)
- Hawkins, Percy S., Grand Rapids, Mich. Desk. 1,728,933; Sept. 24.
- Hawkins, Raymond L., assignor to Long Manufacturing Company, Detroit, Mich. Vibration damper. 1,726,825; Sept. 3.
- Hawkins, Raymond L., assignor to Long Manufacturing Company, Detroit, Mich. Vibration damper. 1,726,826; Sept. 3.
- Hawkins, Wilford J., Montclair, N. J., assignor to American Machine & Foundry Company. Shoe hanger. 1,710,731; Apr. 30.
- Hawkins, Wilford J., Claiborne, Md., assignor to International Cigar Machinery Company. Interchangeable filler feed for cigar machines. 1,721,557; July 23.
- Hawkins, William L., Oakdale, Calif. Brush rake. 1,723,616; Aug. 6.
- Hawkins, William W., Brooklyn, N. Y., assignor to Webster Electric Company, Racine, Wis. Oscillator magneto. 1,702,082; Feb. 12.
- Hawkinson, Adolph H., and E. W. Peterson, assignors to Greenlee Bros. & Co., Rockford, Ill. Sharpening hollow or mortiser chisels. 1,725,515; Aug. 20.
- Hawkinson, Emil E., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Mold-stripping machine. 1,709,821; Apr. 16.
- Hawkinson, Paul E., assignor to Kehawke Manufacturing Co., Minneapolis, Minn. Making tire patches. 1,697,955; Jan. 8.
- Hawks, Arthur S., assignor to Busch Sulzer Bros., Diesel Engine Company, St. Louis, Mo. Internal-combustion-engine installation. 1,711,530; May 7.
- Hawks, Arthur S., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine-cylinder lubricator. 1,736,312; Nov. 19.
- Hawkesworth, Frank G., Westmont, N. J., assignor to The S. S. White Dental Manufacturing Company. Bite-block transfer instrument. 1,703,105; Feb. 26.
- Hawley, Amos H., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Accounting machine. 1,715,704; June 4.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal fixture. 1,700,261; Jan. 29.
- Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,712,615; May 14.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Dust collector and gas cleaner. 1,715,549; June 4.
- Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Tube connection. 1,717,028; June 11.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Air purifier and moistener. 1,720,178; July 9.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Smoke cleaner for oil engines. 1,723,034; Aug. 6.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal fixture. 1,725,580; Aug. 20.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Exhaust-steam separator. 1,725,711; Aug. 20.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Centrifugal filter. 1,725,712; Aug. 20.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Tank filter. 1,726,827; Sept. 3.
- Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Utilizing the heat of gases. 1,726,828; Sept. 3.
- Hawley, Charles G., assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,732,304; Oct. 22.
- Hawley, Charles G., Cleveland, Ohio, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,708,919; Apr. 9.
- Hawley, Charles G., Cleveland, Ohio, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,708,920; Apr. 9.
- Hawley, Charles G., Cleveland, Ohio, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,712,614; May 14.
- Hawley, Jesse B., Evanston, Ill., assignor, by mesne assignments, to Arvey Manufacturing Co. Method of and apparatus for treating and handling fibrous pulp. 1,704,706; Mar. 12.
- Hawley, Jesse B., Wilmette, and P. G. Andres, River Forest, assignors, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Metal-coated diaphragm. 1,715,598; June 4.
- Hawley, Jesse B., Chicago, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Producing sound-amplifying horns. 1,717,775; June 18.
- Hawley, Jesse B., Wilmette, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Sound amplifier. 1,727,105; Sept. 3.
- Hawley, Jesse B., Wilmette, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Sound-producing device. 1,727,106; Sept. 3.
- Hawley, Jesse B., Wilmette, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Cabinet. 1,727,107; Sept. 3.
- Hawley, Jesse B., Wilmette, assignor, by mesne assignments, to United Reproducers Corporation, St. Charles, Ill. Sound-reproducing device. 1,734,377; Nov. 5.
- Hawley, Jesse G., Painted Post, N. Y. Shock absorber. 1,739,304; Dec. 10.
- Hawley, John B., Jr., Minneapolis, Minn. Welding rod. 1,709,474; Apr. 16.
- Hawley, John B., jr., Minneapolis, Minn., assignor of one-half to Goodspeed Investment Company and one-half to C. I. Williams, Grand Rapids, Mich. Tie rod. Re17,452; Oct. 8.
- Hawley, Kent A., assignor to Locke Insulator Corporation, Baltimore, Md. Making insulators. 1,699,063; Jan. 15.
- Hawley, Kent A., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,706,488; Mar. 26.
- Hawley, Kent A., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,739,637; Dec. 17.
- Hawling, Henry H., Ridgefield Park, N. J. Dry stencil. 1,720,897; July 16.
- Hawn, Albert I., assignor of one-half to D. S. Hawn, Denver, Colo. Surface-finishing device. 1,706,402; Mar. 26.
- Hawn, Dorothy S. (See Hawn, Albert I., assignor.)
- Hawney, Frederick G., Seattle, Wash. Lawn trimmer. 1,721,661; July 23.
- Haworth, Albert, assignor to Brogdex Company, Winter Haven, Fla. Apparatus for treating fruit and the like. 1,703,144; Feb. 26.
- Haworth, Alvah, Long Beach, Calif., by decree of distribution to L. Haworth. Flying machine. 1,703,621; Feb. 26.
- Haworth, Luella. (See Haworth, Alvah.)
- Haws, Alpheus G., Piedmont, Calif. Sanitary drinking faucet. Des. 79,363; Sept. 10.
- Hawthorne, Carl H., Coshocton, Ohio. Guard for screen doors and the like. 1,701,004; Feb. 5.
- Hawthorne, John A., jr. (See Lea, L., and Hawthorne.)
- Hawthorne, Primm R., assignor to The Petroleum Iron Works Company, Sharon, Pa. Apparatus for testing pipe. 1,734,805; Nov. 5.
- Hawxburst, John J., assignor to Liquid Dispensing Systems, Inc., Brooklyn, N. Y. Liquid-service station. 1,707,938; Apr. 2.
- Hawxburst, John J., assignor to Liquid Dispensing Systems, Inc., Brooklyn, N. Y. Automatic shut-off for liquid-delivery system. 1,712,498; May 14.
- Hay, Howard M., Wenonah, N. J. Chuck-operating means. 1,699,358; Jan. 15.
- Hay, Howard M., Wenonah, N. J. Motor-operated chuck. 1,699,359; Jan. 15.
- Hay, John D., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Casting. 1,709,129; Apr. 16.
- Hayakawa, Yaichi, Chicago, Ill. Ventilator. 1,742,034; Dec. 31.
- Hayd, Lorenz, Munich, assignor of one-half to A. Lutze, Seeshaupt, Bavaria, Germany. Nut lock. 1,728,753; Sept. 17.



- Hayde, Stephen J., assignor to American Aggregate Company, Kansas City, Mo. Burning argillaceous material and product resulting therefrom. 1,707,395; Apr. 2.
- Hayden, Arthur C., Brockton, Mass. Motion-picture camera. 1,722,088; July 23.
- Hayden, Benjamin F., St. Louis, Mo., assignor to Good Roads Company, Inc., Upper Darby, Pa. Spreading apparatus. 1,715,325; May 28.
- Hayden, Benjamin F., St. Louis, Mo., assignor to The Byland Realty & Construction Company, Inc., Cincinnati, Ohio. Brick-making machinery. 1,735,274; Nov. 12.
- Hayden, David H., Brooklyn, N. Y. Tie for concrete forms. 1,733,686; Oct. 29.
- Hayden, Harold R., Brooklyn, N. Y., assignor of one-half to A. E. Van Doren. Dial control. 1,738,296; Dec. 3.
- Hayden, Henry T., jr., New York, N. Y., assignor to Ward Leonard Electric Company. Resistance device. 1,719,179; July 2.
- Hayden, Lester N., Arlington, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,707,189; Mar. 26.
- Hayden, O. M. (See Calcott, W. S., Douglass, and Hayden.)
- Hayden, Robert P., and F. N. Manley, assignors to Johnson & Johnson, New Brunswick, N. J. Spool of tape and protector therefor. 1,704,474; Mar. 5.
- Hayes, Albert, Bernalillo, N. Mex. Automatic air-brake lock. 1,704,320; Mar. 5.
- Hayes, Anson, Ames, Iowa. Optical pyrometer. 1,716,775; June 11.
- Hayes, Carl I., Providence, R. I. Electric furnace. 1,724,583; Aug. 13.
- Hayes, Charles G., Plainville, assignor to H. C. Folger, Waverly, Mass. Refrigerating apparatus. 1,716,551; June 11.
- Hayes, Charles J. W., Rochester, Mich. Starter. 1,700,130; Jan. 29.
- Hayes, Edmond P., Wichita, Kans. Gasoline-dispensing apparatus. 1,726,436; Aug. 27.
- Hayes, Edmund P., assignor to Hayes Equipment Manufacturing Company, Wichita, Kans. Dispensing apparatus. 1,711,783; May 7.
- Hayes, Edmund P., and W. M. Harks, assignors to The Hayes Equipment Manufacturing Company, Wichita, Kans. Liquid-measure control. 1,697,840; Jan. 1.
- Hayes Equipment Manufacturing Company. (See Hayes, Edmund P., assignor.)
- Hayes Equipment Manufacturing Company, The. (See Hayes, E. P., and Harks, assignors.)
- Hayes, Francis T., Richmond Hill, N. Y. Theater, hall, or the like. 1,728,731; Sept. 17.
- Hayes, Frank A., Keyport, N. J. Variable-speed transmission mechanism. 1,698,229; Jan. 8.
- Hayes, Frank A., Keyport, N. J. Variable-speed power-transmission mechanism. 1,700,981; Feb. 5.
- Hayes, Frank A., Keyport, N. J., assignor to Healey-Aeromarine Bus Co., Inc. Vehicle spring suspension. 1,709,130; Apr. 16.
- Hayes, Frank F., Butte, Mont. Putty mixing and conditioning machine. 1,706,291; Mar. 19.
- Hayes, Fred L., Port Washington, N. Y., assignor, by mesne assignments, to C. H. Bicknell, Passaic, N. J. Tank truck. 1,696,954; Jan. 1.
- Hayes, Fred L., Port Washington, N. Y., assignor, by mesne assignments, to C. H. Bickell, Passaic, N. J. Dispensing tank. 1,702,866; Feb. 19.
- Hayes, George H., St. Paul, Minn. Combined shock resistor and absorber. 1,730,273; Oct. 1.
- Hayes, Harvey C., Annapolis, Md. Method of and apparatus for measuring distance. 1,709,573; Apr. 16.
- Hayes, Harvey C., Washington, D. C. Sound reproducer. 1,704,084; Mar. 5.
- Hayes, Harvey C., Washington, D. C. Apparatus for transforming sound into electrical energy. 1,729,383; Sept. 24.
- Hayes, Harvey C., Washington, D. C. Apparatus for fluid propulsion by vibratory diaphragms. 1,729,579; Sept. 24.
- Hayes, Harvey C., Washington, D. C. Distance-measuring device. 1,729,595; Sept. 24.
- Hayes-Ionia Company. (See Anderson, Roy F., assignor.)
- Hayes, James H. (See Culver, Ansel R., assignor.)
- Hayes, John C., jr. (See Willcox, F. H., and Hayes.)
- Hayes, John C., jr., assignor to Freyn Engineering Company, Chicago, Ill. Gas washer. 1,722,466; July 30.
- Hayes, John C., jr., assignor to Freyn Engineering Company, Chicago, Ill. Air distribution to furnaces. 1,726,298; Aug. 27.
- Hayes, John E. R., Melrose, assignor to The Carter's Ink Company, Cambridge, Mass. Dispensing receptacle for adhesives. 1,730,655; Oct. 8.
- Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Portable derail. 1,702,083; Feb. 12.
- Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Bumper post. 1,705,479; Mar. 19.
- Hayes Track Appliance Company. (See Hayes, Stanley W., assignor.)
- Hayhoe, John A., London, England. Illuminated umbrella and walking stick. 1,723,780; Aug. 6.
- Hayman, Eber J., Parkersburg, W. Va. Metallic-roof joint. Re17,442; Sept. 24.
- Hayman, Eber J., Parkersburg, W. Va. Roofing joint. 1,723,166; Aug. 6.
- Hayman, Eber J., Parkersburg, W. Va. Joint for metallic members. 1,738,578; Dec. 10.
- Hayman, Martin E., Milwaukee, Ore. Portable elevator. 1,721,020; July 16.
- Hayman, William C., Schenectady, N. Y., assignor to General Electric Company. Three-conductor cable. 1,740,343; Dec. 17.
- Haymon Krupp & Company. (See Cohen, Rubin, assignor.)
- Hayner, Orla A., Mason, Mich. Clock case. Des. 77,833; Feb. 26.
- Haynes, Rufus L., Smackover, Ark., assignor of one-half to J. O. Modisette, Jennings, La. Snubber for automobiles. 1,734,806; Nov. 5.
- Haynes, William S., assignor to Wm. S. Haynes Co., Boston, Mass. Thermoclarinet or the like. 1,715,162; May 28.
- Haynes, Wm. S., Co. (See Haynes, William S., assignor.)
- Hays, Harold M., New York, N. Y. Combined light and structure. 1,702,967; Feb. 19.
- Hays, James R., and E. M. Lias, Akron, Iowa. Fruit jar and the like. 1,700,162; Jan. 29.
- Hays Manufacturing Co. (See Schneider, William, assignor.)
- Hayton Pump & Blower Co. (See Bond, Joseph, E., assignor.)
- Hayward, Clarence D., Almont, Mich. Bean and grain bed. 1,700,843; Feb. 5.
- Hayward, George A., Watertown, Conn. Locking snap plug. 1,700,495; Jan. 29.
- Hayward, George O., Gosford, New South Wales, Australia. Stone-cutting circular saw. 1,697,116; Jan. 1.
- Hayward, Griswold S. (See Gibson, F. I., and Hayward.)
- Hauck Manufacturing Company. (See Gerdes, H. T., and Schumann, assignors.)
- Hazard, B. G., et al., executors. (See Kaye, Samuel.)
- Hazard, George E., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Tire-changing mechanism. 1,722,913; July 30.
- Hazel-Atlas Glass Co. (See Bryant, Thomas W., assignor.)
- Hazel-Atlas Glass Co. (See Freese, Ira H., assignor.)
- Hazel-Atlas Glass Co. (See Giles, R., and McWilliams, assignors.)
- Hazel-Atlas Glass Co. (See Good, Robert, assignor.)
- Hazel-Atlas Glass Co. (See Kirkpatrick, John, assignor.)
- Hazel-Atlas Glass Co. (See Schaffer, Herman, assignor.)
- Hazel-Atlas Glass Co. (See Stenhouse, David, assignor.)
- Hazel, Edwin M., Omaha, Nebr. Parliamentary chart. 1,709,849; Apr. 23.
- Hazel, James O., assignor to J. Long, Atchison, Kans. Electric railway signal lantern. 1,740,592; Dec. 24.
- Hazeley, Edward. (See Topham, C. F., Hazeley, and Morton.)
- Hazeley, Edward, and E. A. Morton, Coventry, assignors to Courtaulds Limited, London, England. Manufacture and production of artificial threads, filaments, ribbons, and the like. 1,739,458; Dec. 10.
- Hazeltine Corporation. (See Hazeltine, Louis A., assignor.)
- Hazeltine Corporation. (See MacDonald, William A., assignor.)
- Hazeltine, Louis A., Hoboken, N. J. Method and apparatus for converting electric power. 1,702,402; Feb. 19.
- Hazeltine, Louis A., Hoboken, N. J., assignor, by mesne assignments, to Ware Radio, Inc. System of radiocommunication. 1,697,650; Jan. 1.
- Hazeltine, Louis A., Hoboken, N. J., assignor to Hazeltine Corporation. Eliminating magnetic coupling. 1,698,364; Jan. 8.
- Hazeltine, Louis A., Oakland, Calif., assignor to Hazeltine Corporation. Wave signaling system. Re17,530; Dec. 17.
- Hazelton, Carl J., assignor to American Narrow Fabric Company, Worcester, Mass. Garment supporter. 1,701,475; Feb. 5.
- Hazelton, Robert T., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Tilting work support. 1,716,129; June 4.
- Hazelton, Robert T., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Press brake. 1,739,902; Dec. 17.
- Hazelwood, Albert F., Sapulpa, Okla. Door knob. 1,734,520; Nov. 5.
- Hazen, Frank D., Pittsburgh, and J. H. Antill, Titusville, Pa. Insulating building material. 1,702,776; Feb. 19.
- Hazen, Levi P., Cincinnati, Ohio. Postal sheet. 1,708,574; Apr. 9.
- Hazen, Morris, Cincinnati, Ohio. Machine for forming metal strips and making sections for radiator cores. 1,704,321; Mar. 5.
- Hazlehurst, Henry E., and O. Margetson, London, England. Pulverized-fuel burner. 1,721,879; July 23.
- Hazlett, Walter H., Long Beach, Calif. Tubing bleeder for oil-well pumps. 1,736,040; Nov. 19.
- Hazlewood, George W., assignor to Walls Limited, Birmingham, England. Slow-combustion heating stove. 1,705,403; Mar. 12.
- H'Doubler, Charles W., Racine, Wis. Motor-gear sewing machine. 1,730,141; Oct. 1.
- Heacock, Foster J., Clearville, Pa. Container. 1,721,448; July 16.
- Heacock, Thomas H., and D. W. Frease, Canton, Ohio. Rolling-mill bearings. 1,718,820; June 25.
- Head, Ernest C., assignor to Gleason Works, Rochester, N. Y. Apparatus for relieving taper hobs. 1,734,254; Nov. 5.



- Head, Harold W., Royal Oak, Mich. Electric heating element. 1,715,287; May 28.
- Head, Ronald, London, England, assignor, by mesne assignments, to Baker Perkins Company, Saginaw, Mich. Mixing apparatus. 1,738,898; Dec. 10.
- Head, Roscoe A., Cedar Vale, Kans. Bundle holder for corn binders. 1,735,275; Nov. 12.
- Headington, Susanna C., New York, N. Y. Process of and apparatus for waving hair. 1,709,981; Apr. 23.
- Headley, Arthur E. (See Gouldbourn, J., and Headley.)
- Headley, Frederick H., Northfield, near Birmingham, England. Sand back rest. 1,741,156; Dec. 31.
- Headrick, James. (See Hillier, Seymour W., assignor.)
- Heaford, Edwin V., assignor to J. Rosenthal and S. Horwitz, Denver, Colo. Iceless refrigerator. 1,728,887; Sept. 17.
- Heake, James M., assignor to Heake & Son, Camden, N. J. Shoulder strap for lingerie. 1,741,628; Dec. 31.
- Heake & Son. (See Heake, James M., assignor.)
- Heald, James N., Worcester, and A. Turner, Shrewsbury, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. Re17,477; Nov. 5.
- Heald, James N., and R. D. Hubbell, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,705,114; Mar. 12.
- Heald, James N. and R. N., and E. M. Taylor, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,715,550; June 4.
- Heald Machine Company, The. (See Burns, Alfred P., assignor.)
- Heald Machine Company, The. (See Gallimore, Keith F., assignor.)
- Heald Machine Company, The. (See Gallimore, K. F., and Woytych, assignors.)
- Heald Machine Company, The. (See Heald, J. N., and Hubbell, assignors.)
- Heald Machine Company, The. (See Heald, J. N., and Turner, assignors.)
- Heald Machine Company, The. (See Heald, J. N. and R. N., and Taylor, assignors.)
- Heald Machine Company, The. (See Kempton, H. E., and Gallimore, assignors.)
- Heald, Roger N. (See Heald, J. N. and R. N., and Taylor.)
- Heald, William, La Porte, Ind. Device for feeding fuel mixtures to internal-combustion engines. 1,711,495; May 7.
- Heald, William, La Porte, Ind., assignor of one-fourth to D. M. Carter, Chicago, Ill. Device for feeding fuel mixtures to internal-combustion engines. 1,711,496; May 7.
- Healey-Aeromarine Bus Company. (See Chilton, Roland, assignor.)
- Healey-Aeromarine Bus Company. (See Douglas, W. H., and Chilton, assignors.)
- Healey-Aeromarine Bus Co. (See Hayes, Frank A., assignor.)
- Healey, William J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Battery-level indicator. 1,702,436; Feb. 19.
- Health-O-Meter Company. (See Weber, Mathias J., assignor.)
- Healy, John A., Langdon, Minn. Insert. 1,708,091; Apr. 9.
- Healy, William J. and W. P., Merced, Calif. Stand. 1,733,011; Oct. 22.
- Healy, William P. (See Healy, William J. and W. P.)
- Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Liquid-feed tank. 1,724,350; Aug. 13.
- Heany, John A., New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J. Impregnating fabric. 1,712,002; May 7.
- Heany, John A., New Haven, Conn., assignor to World Bestos Corporation, Paterson, N. J. Paper manufacture. 1,716,776; June 11.
- Heany Laboratories, Inc. (See Heany, John A., assignor.)
- Heap, Benjamin, Clifton Junction, Manchester, England, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Dry-storage-battery plate and making the same. 1,725,734; Aug. 20.
- Heare, Ray, Los Angeles, Calif. Flush valve. 1,731,571; Oct. 15.
- Hearn, James W., assignor of one-half to W. H. Bass, Watertown, Tenn. Combined farming machine. 1,715,235; May 28.
- Hearn, Roy F., assignor to The Willys-Overland Company, Toledo, Ohio. Spark and throttle control. 1,735,247; Nov. 12.
- Heartfield, Maurice K., et al. (See Jones, Albert, assignor.)
- Hearley, Jacob M., Pittsburgh, Pa. Interlocking rail joint. 1,736,652; Nov. 19.
- Heaslip, Porter S., Marine City, Mich. Fishing lure. 1,725,636; Aug. 20.
- Heat Treating Company. (See Brandt, David G., assignor.)
- Heath, Charles, Fort Worth, Tex. Well barrel. 1,703,036; Feb. 19.
- Heath, Delos P., Grand Rapids, Mich. Refrigerator and refrigerating apparatus therefor. 1,726,486; Aug. 27.
- Heath, Delos P., Peoria, Ill. Mechanical refrigeration apparatus. 1,726,519; Aug. 27.
- Heath, Delos P., Peoria, Ill. Pressure-control switch. 1,703,235; Feb. 26.
- Heath, Earl, Marinette, Wis. Mounting for folding beds. 1,723,649; Aug. 6.
- Heath, Forrest A., assignor of one-third to himself, one-third to K. B. Segall, and one-third to W. F. Tant, Detroit, Mich. Oil burner. 1,707,474; Apr. 2.
- Heath, Frank, National City, Calif. Segregating apparatus. 1,708,670; Apr. 9.
- Heath, Frederick T., Columbus, Ohio. Extruding die. 1,725,959; Aug. 27.
- Heath, Herbert C. (See Trencham, H., Heath, and Newton.)
- Heath, Herbert C., Wembley, E. D. Regis, Stonebridge Park, and H. G. Ruddick, Acton, England, assignors to General Electric Company. Electric switch. 1,701,408; Feb. 5.
- Heath, Ralph C., Melrose, Mass., assignor to The Barber Asphalt Company, Philadelphia, Pa. Paving. 1,701,497; Feb. 12.
- Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Preparing Epsom salts. 1,709,398; Apr. 16.
- Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Purifying magnesium-sulphate solutions. 1,727,597; Sept. 10.
- Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Making magnesium arsenate. 1,737,114; Nov. 26.
- Heath, Wilfrid P., Seattle, Wash., assignor to Zenith Radio Corporation, Chicago, Ill. Tuning radioreceivers. Re17,531; Dec. 17.
- Heath, William E., Washington, D. C. Key-retaining device. 1,705,667; Mar. 19.
- Heatherington, Charles J., McKeesport, and O. F. Collins, Duquesne, Pa. Renewable fuse. 1,728,121; Sept. 10.
- Heaton, Herman C., Chicago, Ill. Method and apparatus for heat recovery. 1,741,567; Dec. 31.
- Heaton, Herman C., Chicago, Ill., assignor to Yarnall-Waring Company, Philadelphia, Pa. Metering boiler. 1,721,482; July 16.
- Heaton, Herman C., Chicago, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,725,798; Aug. 27.
- Hebb, John A., Hopwood, Pa. Dumping car. 1,722,374; July 30.
- Hebbeler, George W., St. Louis, Mo. Battery. 1,712,822; May 14.
- Hebbeler, George W., St. Louis, Mo. Battery cable connection. 1,712,823; May 14.
- Hebbeler, George W., St. Louis, Mo. Battery cable connection clamp. 1,712,824; May 14.
- Hebden, Robert H., Toronto, Ontario, assignor to Godson Contracting Company, Limited, Toronto, Canada. Apparatus for compacting pavement. 1,700,797; Feb. 5.
- Hebeler, Frederick, Newark, N. J. Wrench. 1,701,037; Feb. 5.
- Heberlein & Co. A. G. (See Bodmer, Albert, assignor.)
- Heberlein, Frederick, Cleveland, Ohio. Keyhole plug and clamp. 1,701,924; Feb. 12.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Cellulose goods with permanent finish and producing same. 1,717,315; June 11.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Treatment of vegetable fibrous material to produce woollike effects. 1,717,316; June 11.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Treatment of vegetable fibrous material and resulting product. 1,731,245; Oct. 15.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of pattern effects upon textile goods. 1,739,965; Dec. 17.
- Heberlein, Georges, Wattwil, Switzerland, assignor to Heberlein Patent Corporation, New York, N. Y. Production of pattern effect upon textile goods. 1,739,966; Dec. 17.
- Heberlein Patent Corporation. (See Heberlein, Georges, assignor.)
- Heberling, John. (See Drake, C. R., and Heberling.)
- Heberling, John, Rochester, N. Y. Child's vehicle. 1,702,691; Feb. 19.
- Heberling, John, assignor to Hickock Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. 1,716,440; June 11.
- Hebert, Charles W., assignor to Bundy Steam Trap Co., Nashua, N. H. Steam trap, connection, and valve therefor. 1,721,483; July 16.
- Hebig, Henry C., Hoffmans, N. J., assignor to H. H. Boyce, New York, N. Y. Motor-head indicator. 1,716,889; June 11.
- Hebig, Henry C., Roselle Park, N. J., assignor of fifty-five per cent to N. Littell, New Canaan, Conn. Footwear. 1,742,176; Dec. 31.
- Hebrew, Joseph S., Masury, Ohio, assignor to Westinghouse Electric & Manufacturing Company. R. R. reactor. 1,740,458; Dec. 24.
- Hecht, Dora. (See Prigge, Henry, assignor.)
- Hecht, Hans. (See Hirsch, H., and Hecht.)
- Hecht, Heinrich. (See Hahnemann, W., Hecht, and Nielsen.)
- Hecht, Heinrich. (See Hahnemann, W., Hecht, and Settegast.)



- Hecht, Heinrich, assignor to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Diaphragm especially for sound receiving and radiating apparatus. 1,737,883; Dec. 3.
- Hecht, Heinrich, and W. Rudolph, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Diaphragm for acoustical apparatus. 1,741,841; Dec. 31.
- Hecht, Leo, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Tray for console sets or articles of analogous nature. Des. 77,486; Jan. 15.
- Hecht, Leo, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Candlestick base or article of analogous nature. Des. 77,954; Mar. 12.
- Heck, Ferdinand, assignor to Mannesmannrohrenwerke, Dusseldorf, Germany. Joining tubular members. 1,703,037; Feb. 19.
- Heck, William J., Newark, N. J. Stamping device. 1,713,336; May 14.
- Heckel, Jacob G., Bradford, Pa. Dental X-ray-film holder. 1,706,117; Mar. 19.
- Hecker, Edgar, et al. (See Wyss, Emil A., assignor.)
- Heckman, Harold A., Vancouver, Wash. Draw bar for tractors. 1,732,580; Oct. 22.
- Heckman, Henry C., Tooting, London, England. Internal-combustion motor. 1,730,073; Oct. 1.
- Heckman, Richard P., assignor to W. Hurlburt, Chicago, Ill. Metal-forming fixture. 1,704,830; Mar. 12.
- Heckman, W. H. (See Melley, J. J., and Chapman, assignors.)
- Hector, Alexander B., Greenwich, near Sydney, New South Wales, Australia. Producing color music and other spectacular luminous effects. 1,728,860; Sept. 17.
- Hedberg, Frederick H., Chicago, Ill. Combined flash light and alarm. 1,738,243; Dec. 3.
- Hedberg, Samuel L., Chicago, Ill. Faucet. 1,705,404; Mar. 12.
- Hedden, Harriet B., East Orange, N. J. Steamer rug or robe. 1,704,504; Mar. 5.
- Heddon, Charles, assignor to James Heddon's Sons, Dowagiac, Mich. Fish bait. 1,711,200; Apr. 30.
- Heddon, Charles, assignor to James Heddon's Sons, Dowagiac, Mich. Fish bait. 1,736,403; Nov. 19.
- Heddon's, James, Sons. (See Heddon, Charles, assignor.)
- Heddon's, James, Sons. (See Welch, Jack T., assignor.)
- Hedén, Gustaf, New York, N. Y. Buoying and driving mechanism for fying machines. 1,739,967; Dec. 17.
- Hedenskoog, Ernest, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Ball retainer for bowling alleys. 1,714,310; May 21.
- Hedfelt, Axel T., Minneapolis, Minn. Screen-cleaning device. 1,734,255; Nov. 5.
- Hedges, Frank B., Middletown, Conn., assignor to T. A. Lawton, New York, N. Y. Playground apparatus. 1,708,883; Apr. 9.
- Hedges, George L., assignor to The P. A. Geier Company, Cleveland, Ohio. Washing machine. 1,701,847; Feb. 12.
- Hedges, George L., assignor to The P. A. Geier Company, Cleveland, Ohio. Mounting for power-actuated wringers. 1,703,422; Feb. 26.
- Hedges, H. S. (See Ryalls, John H., assignor.)
- Hedglin, Elmer, Scranton, Pa. Rotary valve for internal-combustion engines. 1,712,434; May 7.
- Hedgion, Mead, Syracuse, N. Y. Portable ironing machine. 1,734,089; Nov. 5.
- Hediger, Ernst, Milwaukee, Wis., assignor to Globar Corporation, Niagara Falls, N. Y. Electrical connection. 1,712,477; May 7.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Passageway-control mechanism. 1,724,932; Aug. 20.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Holding-circuit means. 1,738,997; Dec. 10.
- Hedlund, Mats, Stockholm, Sweden. Electric accumulating range. 1,715,288; May 28.
- Hedman, Carl M., assignor to Hedman Manufacturing Company, Chicago, Ill. Check protector. 1,703,106; Feb. 26.
- Hedman, Herbert R., Chicago, Ill. Folding kit. 1,725,271; Aug. 20.
- Hedman Manufacturing Company. (See Carlson, J. W., Walsh, and Slettevold, assignors.)
- Hedman Manufacturing Company. (See Hedman, Carl M., assignor.)
- Hedman Manufacturing Company. (See Lippe, Martin, assignor.)
- Hedrick, Clarence E., Newton, Kans. Poultry feeder. 1,708,838; Apr. 9.
- Hedstrom, Albert S. (See Perry, Ira D., assignor.)
- Hedstrom, Gustav V., Kenosha, Wis. Control for variable radio tuning units. 1,710,539; Apr. 23.
- Hedstrom, Gustav V., Kenosha, Wis. Control for variable radio tuning units. 1,738,369; Dec. 3.
- Hedstrom-Union Company. (See Frissell, N. E., and Maloy, assignors.)
- Heed, Karl G. (See Olson, Nils G., assignor.)
- Heel Covering Machines Limited. (See McIntosh, Frederick B., assignor.)
- Heene, George W., Cleveland, Ohio. Stamping machine. 1,738,899; Dec. 10.
- Hefner, Maynard, Engineering Company. (See Hefner, William A., assignor.)
- Hefner, William A., assignor to Maynard Hefner Engineering Company, Boston, Mass. Package. 1,710,164; Apr. 23.
- Hefner, Millie B. (See Stratton, O., and Hefner.)
- Hefter & Company, The. (See Ohlsson, Charles H., assignor.)
- Heftl, Wilhelm, Wulfingen, Switzerland, assignor to Busch-Sulzer Bros. Diesel-Engine Co., St. Louis, Mo. Air-starting gear. 1,734,673; Nov. 5.
- Hegarty, William, Brooklyn, N. Y., and G. E. Deiseroth, Montclair, N. J., assignors to General Electric Company. Handling device for foundry ladles or the like. 1,731,897; Oct. 15.
- Hegel, George W. (See Otis, A. N., and Hegel.)
- Hegeler, Julius W., and G. Holmes, Danville, Ill. Differential driving mechanism. 1,728,899; Sept. 17.
- Heggie, James. (See Corral, H., and Heggie.)
- Heginbottom, Walter G., and J. R. Francis, Flint, Mich. Manifold for internal-combustion engines. 1,724,481; Aug. 13.
- Hegray, Henri, Boulogne-sur-Seine, France, assignor to J. G. D. Marks, London, England. Prepared hoop iron and clasp for binding cases. 1,719,701; July 2.
- Hegstad, John J. (See Hjelmstad, E. M., and Hegstad.)
- Hehle, Anton. (See Erhart, J., Lemberger, and Hehle.)
- Hehmsoth, Heinrich, assignor to H. Meissner, Bremen, Germany. Measuring and drawing instrument for making perspective pictures from nature. 1,706,229; Mar. 19.
- Heidbreder, Fred, Quincy, Ill. Airplane propelling mechanism. 1,741,517; Dec. 31.
- Heidbreder, Herman H., assignor to Excelsior Stove & Mfg. Co., Quincy, Ill. Fireplace stove or similar article. Des. 78,289; Apr. 16.
- Heidbrink, Jay A., Minneapolis, Minn. Filtering attachment for anesthetizing machines. 1,741,233; Dec. 31.
- Heidel, Walter C., Oak Park, Ill. Foot support for ladders. 1,735,003; Nov. 12.
- Heidelberg, Victor, Bensberg, near Cologne-on-the-Rhine, assignor to Motorenfabrik Deutz Aktiengesellschaft, Cologne-Deutz, Germany. Fuel-feed device for internal-combustion engines. 1,719,658; July 2.
- Heideman, Fred J. (See Greenwald, H. A., and Heideman.)
- Heideman, Fred J. (See Whitehead, T. C., and Heideman.)
- Heideman, Fred J., assignor of nine-tenths to T. C. Whitehead, Detroit, Mich. Expansion valve. 1,701,185; Feb. 5.
- Heideman, Fred J., Detroit, assignor of ninety per cent to T. C. Whitehead, River Rouge, Mich. Pressure-operated switch. 1,704,191; Mar. 5.
- Heideman, Fred J., Detroit, assignor of ninety per cent to T. C. Whitehead, River Rouge, Mich. Refrigerating apparatus. 1,715,361; June 4.
- Heiden, Julius, Los Angeles, Calif. Keyhole lock. 1,713,602; May 21.
- Heidenstrom, John, Schenectady, N. Y. Wheeled vehicle. 1,725,188; Aug. 20.
- Heidman, George, Chicago, Ill. Brake-gear mounting. 1,701,754; Feb. 12.
- Heidman, George, Glencoe, and V. H. Harbert, assignors to E. P. Smith, Chicago, Ill. Retaining-valve anchor. 1,730,367; Oct. 8.
- Heidtmann, Else, Bronx, N. Y. Roof construction. 1,707,553; Apr. 2.
- Heijenskjöld, Gustaf O. W., assignor to Aktiebolaget Basta, Stockholm, Sweden. Yeast and its manufacture. 1,703,272; Feb. 26.
- Heikes, George P., Watseka, Ill. Apparatus for stringing seed corn. 1,700,163; Jan. 29.
- Heil Co., The. (See Kuhlman, George, assignor.)
- Heilborn, Hermann, Berlin, Germany. Filing device for dental purposes. 1,711,846; May 7.
- Heilbrun, Ivan S., New York, N. Y. Fountain-pen stand. 1,704,248; Mar. 5.
- Heileman, Charles J., Park Hills, Ky. Wrist-watch band or strap mounting. 1,704,795; Mar. 12.
- Heileman, Herman F., Chicago, Ill. Device for aligning sheets. 1,727,011; Sept. 3.
- Heilenday, Richard A., Jersey City, N. J., assignor to Standard Oil Development Company. Combined tank closure and gauge. 1,725,453; Aug. 20.
- Heilman, Charles G. (See Schermer, N. H., and Heilman.)
- Heim, Daniel C., Sunbury, Pa. Mixing mill. 1,739,149; Dec. 10.
- Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Method and apparatus for producing ground articles. 1,709,348; Apr. 16.
- Heim, Lewis R., Mount Dora, Fla., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding apparatus. 1,730,087; Oct. 22.
- Heim, Lewis R., Danbury, Conn., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding. 1,733,088; Oct. 22.
- Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding. 1,733,089; Oct. 22.
- Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding. 1,741,236; Dec. 31.
- Heim, William. (See Davis, R., and Heim.)
- Heimann, Heinrich, Dessau, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Artificial fertilizer. 1,698,793; Jan. 15.
- Heimann, Heinrich, and A. Bayerl, Dessau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of cellulose esters. 1,722,914; July 30.



- Heimann, Heinrich, and A. Bayerl, Dessau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Treating cellulose with lactic acid and the product thereof. 1,728,206; Sept. 17.
- Heimann, Heinrich, and H. Seefried, Dessau in Anhalt, I. Petersen, Wolfen, Kreis Bitterfeld, and A. Bayerl, Dessau in Anhalt, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Process for opening up materials containing cellulose. 1,736,080; Nov. 19.
- Heimann, Hugo, assignor to Bunte Brothers, Chicago, Ill. Display rack. 1,716,054; June 4.
- Heimberger, Harry T. (See Fay, O. J., Heimberger, and Pugh.)
- Heimerdinger, W. C., Company. (See Heimerdinger, William G., assignor.)
- Heimerdinger, William G., assignor to W. C. Heimerdinger Company, Louisville, Ky. Latch for pivoted handles. 1,741,109; Dec. 24.
- Hein, George N., assignor to Neutype Instrument Company, San Francisco, Calif. Apparatus for enabling the withdrawing of the contents of ampules. 1,728,965; Sept. 24.
- Hein, George N., San Francisco, Calif. Adapter and lock for hypodermic syringes. 1,740,459; Dec. 24.
- Hein, Mathilde, San Francisco, Calif. Combination dishpan. 1,711,731; May 7.
- Heindorf, Joseph H. M., Hamburg, Germany. Device for preventing transmission of shocks in liquid conduits. 1,707,912; Apr. 2.
- Heine Boiler Company. (See Cotton, Alfred, assignor.)
- Heine Boiler Company. (See Hinman, John H., assignor.)
- Heine, Ferdinand H., assignor to Koehring Company, Milwaukee, Wis. Sectional water-measuring tank. 1,702,898; Feb. 19.
- Heine, Ferdinand H., assignor to Koehring Company, Milwaukee, Wis. Concrete-mixer water-supply means. 1,736,744; Nov. 19.
- Heine, Hans G., assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Treatment of ores and metallurgical products. 1,731,895; Oct. 15.
- Heine, Herman E. (See Schlesinger, L., and Heine.)
- Heine, Herman E., assignor to Bradley Washfountain Company, Milwaukee, Wis. Wash-fountain spray head. 1,730,886; Oct. 8.
- Heine, Otto H., Eugene, Oreg. Thatched stock shelter. 1,740,510; Dec. 24.
- Heinecke, William, Chicago, Ill. Making negatives. 1,700,262; Jan. 29.
- Heineke, Henry L. (See Heineke, Martin L. and H. L.)
- Heineke, Martin L. and H. L., Springfield, Ill. Conveyor for grain weighers. 1,720,956; July 16.
- Heineman, Henry E. O. (See Heineman, Paul G. and H. E. O.)
- Heineman, Paul G. and H. E. O., Chicago, Ill., assignors to Cook Laboratories, Inc. Medicament-dispensing cartridge. 1,737,844; Dec. 3.
- Heinemann, Alfred F. (See Ruka, W. A., and Heinemann.)
- Heinemann, Karl, Dusseldorf, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Safety device for automatic firearms. 1,717,776; June 18.
- Heinemann, Karl, assignor to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Automatic firearm. 1,725,272; Aug. 20.
- Heinemann, Morse C. (See Campbell, A. T., and Heinemann.)
- Heinen, Frederick C., and K. J. Tobin, assignors to Camel Company, Chicago, Ill. Elevating means for car doors. 1,720,898; July 16.
- Heinen, Joseph, and B. C. Smith, Long Beach, Calif. Toy gun. 1,726,829; Sept. 3.
- Heinisch, John J. (See Ruetz, George D., assignor.)
- Heinisch, Otto, Wesel, and A. Riedl, Cleve-Rhineland, Germany. System for the distribution of electric energy. 1,722,419; July 30.
- Heinish, George, assignor to The Star Drilling Machine Company, Akron, Ohio. Carburetor. 1,697,816; Jan. 1.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 77,767; Feb. 19.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 77,768; Feb. 19.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 77,769; Feb. 19.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 77,999; Mar. 12.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 78,000; Mar. 12.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 78,025; Mar. 19.
- Heinke, Alfred J., Towaco, N. J., assignor to H. R. Mallinson & Co. Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 78,160; Apr. 2.
- Heinrich, Amandus, Monroe, La. Carbon-recovery system and apparatus. 1,702,968; Feb. 19.
- Heinrich, Jean M., assignor to Société des Moteurs Salmson (Système Canton-Unné), Paris, France. Construction of valve-control rods in internal-combustion engines. 1,724,836; Aug. 13.
- Heinrich, Jules. (See Currier, K. G., and Heinrich.)
- Heinrich, Otto, Potsdam, Germany. Fashioned articles of amber. 1,698,794; Jan. 15.
- Heinrich, Paul W., Grosse Pointe Park, Mich. Piston-ring setter. 1,741,110; Dec. 24.
- Heinrich, Robert, Racine, Wis. Metal shears. 1,727,059; Sept. 3.
- Heinrich, Stephen J., Newton, assignor to B. L. Makepeace Inc., Boston, Mass. Convertible level. 1,710,057; Apr. 23.
- Heinrich, Walter A., assignor to W. N. Matthews Corporation, St. Louis, Mo. Hanger. 1,731,775; Oct. 15.
- Heinrichs, Joseph, New York, N. Y. Combined cover and tray for receptacles. 1,717,974; June 18.
- Heintz, George W. (See Thum, Walter A., assignor.)
- Heintz, Leo I., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Post construction for vehicle bodies. 1,717,029; June 11.
- Heintz Manufacturing Company. (See Heintz, Leo I., assignor.)
- Heintz Manufacturing Company. (See Lambert, Albert L., assignor.)
- Heintz, Ralph M., San Francisco, Calif., assignor to Dublier Condenser Corporation, New York, N. Y. Rheostat. 1,733,984; Oct. 29.
- Heintzelman, Leo A., Topeka, Kans. Hanger. 1,713,044; May 14.
- Heiny, Anatole C. (See Horton, C., Van Deventer, and Heiny.)
- Heiny, Anatole C., Ridgefield Park, N. J. Electromagnetically-operated pump. 1,702,867; Feb. 19.
- Heinz Floral Rack Co. (See Heinz, Julius A., assignor.)
- Heinz, Harold A., Portland, Oreg. Plate locker for printing presses. 1,731,662; Oct. 15.
- Heinz, Julius A., deceased, by K. K. Heinz, Pesotum, and F. B. Hamill, Champaign, executors, assignors, by mesne assignments, to Heinz Floral Rack Co., Chicago, Ill. Floral rack. Re17,487; Nov. 12.
- Heinz, Julius A., deceased, by K. K. Heinz, Pesotum, and F. B. Hamill, Champaign, executors, assignors, by mesne assignments, to Heinz Floral Rack Co., Chicago, Ill. Floral rack. Re17,488; Nov. 12.
- Heinz, Julius A., deceased, by K. K. Heinz, Pesotum, and F. B. Hamill, Champaign, executors, assignors to Heinz Floral Rack Co., Chicago Ill. Arm and bottle holder. 1,740,344; Dec. 17.
- Heinz, Kathryn K., et al., executors. (See Heinz, Julius A.)
- Heinz, Peter M., Dubuque, Iowa. Wrench. 1,697,764; Jan. 1.
- Heinze, Augustus P., assignor to Wilson & Bennett Manufacturing Company, Chicago, Ill. Can or container. 1,702,541; Feb. 19.
- Heinzel, William J., Cheboygan, Mich. Motor-vehicle snowshoe. 1,699,430; Jan. 15.
- Heinzelman, Alphonse A., assignor to Bludalk, Inc., New York, N. Y. Variable-speed transmission. 1,725,001; Aug. 20.
- Heinzen, Anton C., assignor to Wausau Iron Works, Wausau, Wis. Snowplow. 1,704,475; Mar. 5.
- Heinzmann, Clarence C., Marion, Ind. Building block. 1,736,595; Nov. 19.
- Heise, George W., Bayside, and E. A. Schumacher, Brooklyn, N. Y., assignors to National Carbon Company, Inc. Dry cell. 1,702,473; Feb. 19.
- Heise, Otto W., Bridgeport, Conn., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, New York, N. Y. Sensitive high-pressure gauge. 1,723,548; Aug. 6.
- Heise, Roscoe S., Middletown, Ohio. Electric oven. 1,717,605; June 18.
- Heise, William H., assignor to Big Rock Ranch Company, Los Angeles, Calif. Hearse. 1,721,391; July 16.
- Heisey, A. H., & Company. (See Cobel, Ray C., assignor.)
- Heisey, A. H., and Company. (See Heisey, Edgar W., assignor.)
- Heisey, A. H., and Company. (See Heisey, Thomas C., assignor.)
- Heisey, A. H., & Company. (See Irwin, Rodney C., assignor.)
- Heisey, Edgar W., assignor to A. H. Heisey and Company, Newark, Ohio. Glass ice tub. Des. 78,024; Mar. 19.
- Heisey, Thomas C., assignor to A. H. Heisey and Company, Newark, Ohio. Flower bowl or article of similar nature. Des. 79,716; Oct. 29.
- Heisey, Thomas C., assignor to A. H. Heisey and Company, Newark, Ohio. Plate or article of similar nature. Des. 79,885; Nov. 12.
- Heisig, Theodore C., assignor to Galena-Signal Oil Company, of Texas, Houston, Tex. Refining oil. 1,728,059; Sept. 10.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System for neutralizing capacitive reactance between two circuits placed closed to each other. 1,708,944; Apr. 16.
- Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation production. 1,712,994; May 14.



- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signal system. 1,711,679; May 7.
- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,712,993; May 14.
- Heising, Raymond A., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. System for signaling. 1,722,047; July 23.
- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave repeating and amplifying. 1,722,089; July 23.
- Heising, Raymond A., Millburn, and G. C. de Coutouly, Chatham, N. J., assignors, by mesne assignments, to Western Electric Company, Incorporated. Frequency-stabilizing system. 1,717,030; June 11.
- Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiplex radio system. 1,724,922; Aug. 20.
- Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Power system. 1,714,903; May 28.
- Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Refrigerator evaporators. 1,717,208; June 11.
- Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Refrigerating apparatus. 1,728,827; Sept. 17.
- Heist, Charles H., Mayville, Wis. Centrifugal fluid cleaner. 1,721,908; July 23.
- Heiter, Henry L., Brooklyn, N. Y. Closure. 1,720,551; July 9.
- Heitkemper, Charles E., Portland, Oreg. Clasp. 1,711,848; May 7.
- Heitmann, Moritz J., Freital-Potschappel, near Dresden, Germany. Producing lubricants containing water. 1,724,653; Aug. 13.
- Heitmeyer, Herman, Sheldon, Iowa. Soil renovator. 1,701,886; Feb. 12.
- Heitzler, Frank, Boston, Mass. Identifying precious stones. 1,700,496; Jan. 29.
- Heitzler, Frank, Boston, Mass. Apparatus for use in identifying precious stones. 1,700,497; Jan. 29.
- Heltzmann, Louis, Long Island City, N. Y. Automatic player piano. 1,723,854; Aug. 6.
- Hektner, Joel, assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing-removing process. 1,722,143; July 23.
- Helander, Lillian V. M., Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company, Hartford, Conn. Spoon or similar article. Des. 77,357; Jan. 1.
- Helander, Lillian V. M., Niagara Falls, N. Y., assignor to Wm. A. Rogers, Limited, Toronto, Ontario, Canada. Spoon or similar article. Des. 77,770; Feb. 19.
- Helander, Lillian V. M., Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company, Hartford, Conn. Spoon or similar article. Des. 78,097; Mar. 26.
- Helander, Lillian V. M., Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers, Ltd., Hartford, Conn. Spoon or similar article. Des. 78,975; July 16.
- Helder, Horatio A., assignor to The Champion Fibre Company, Canton, N. C. Bleaching fiber pulp. 1,732,511; Oct. 22.
- Helen Manufacturing Co., The, et al. (See Sandler, Joseph L., assignor.)
- Helenbolt, George S., assignor, by mesne assignments, to Niagara Sprayer and Chemical Co., Inc., Middleport, N. Y. Fruit-grading machine. 1,708,137; Apr. 9.
- Hele-Shaw, Henry S., and T. E. Beacham, London, England. Rotary air compressor. Re17,298; May 21.
- Hele-Shaw, Henry S., and T. E. Beacham, London, England. Hydraulic pump and motor. 1,709,194; Apr. 16.
- Hele-Shaw, Henry S., and E. Tribe, London, England. Whitinsville, Mass. Drawing-roll traversing motion for wool-spinning machines. 1,702,969; Feb. 19.
- Hele-Shaw, Henry S., and T. E. Beacham, London, England. Feathering screw propeller. 1,723,617; Aug. 6.
- Helfenstein, Alois, Vienna, Austria. Driving power-operated vehicles, particularly aircraft. 1,737,011; Nov. 26.
- Helfrich, Oregon B. (See Kessler, J. M., and Helfrich.)
- Helgeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Mounting of temperature compensator for speedometers. 1,717,684; June 18.
- Helgeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Ammeter. 1,723,035; Aug. 6.
- Helgeby, Ralph O., assignor to A C Spark Plug Company, Flint, Mich. Ratchet-drive reduction. 1,735,923; Nov. 19.
- Helin, Alfred E. (See Valentine, C. W., and Helin.)
- Helin, Wilber E., Zearing, Iowa. Frame for window screens. 1,722,572; July 30.
- Helios Corporation. (See Johansson, Bror A. L., assignor.)
- Helios Corporation. (See Proksa, John, assignor.)
- Helland, Sigurd, assignor to Whitin Machine Works, Packing for valves, liquid-level gauges, piston rods, plungers, and the like. 1,697,516; Jan. 1.
- Heller, Bernard. (See Skolnik, M., and Heller.)
- Heller, Charles T., St. Paul, Minn. Spout. 1,702,084; Feb. 12.
- Heller, Clyde T. (See Sinram, R. E., and Heller.)
- Heller, Harley H., South Beach, Conn., assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Radio instrument dial. 1,708,092; Apr. 9.
- Heller, Harley H., Riverside, Conn., and E. G. Colson, Richmond Hill, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Wire-splicing process and apparatus. 1,709,015; Apr. 16.
- Heller, Herman S., New York, N. Y., assignor, by mesne assignments, to Electrical Research Products, Inc. Artificial-sound reproduction. 1,730,611; Oct. 8.
- Heller, Hugo, Cedar Grove, Wis. Stove. Des. 79,810; Nov. 5.
- Heller, Lawrence S., et al. (See Rubin, Abraham J., assignor.)
- Heller, Oswald, Halensee, near Berlin, Germany. Plant for utilizing the sensible heat of hot coke. 1,714,168; May 21.
- Heller, W. C., & Co., The. (See Sargent, Robert A., assignor.)
- Hellerman, Isaac, Brooklyn, N. Y. Concrete construction. 1,708,696; Apr. 9.
- Hellerman, James I., sr. (See Bayha, W. G., Hellerman, and Schall.)
- Hellermann, Paul F., Hamburg, Germany. Device for stretching pieces of tube. 1,725,638; Aug. 20.
- Helling, Frederick, Hoboken, N. J. Flash-light support. 1,737,237; Nov. 26.
- Hellman, Ernest R., assignor to Superior Piston Ring Company, Detroit, Mich. Cleaner for piston-ring grooves. 1,715,289; May 28.
- Hellman, Marco H., Los Angeles, Calif. Shipping and display case for saddles. 1,741,771; Dec. 31.
- Hellmann, Lui F., and J. Dahl, Indianapolis, Ind. Capsule-filling machinery. 1,701,887; Feb. 12.
- Hellmers, Henry D., Westend, assignor to West End Chemical Company, Oakland, Calif. Recovering borax from brine. 1,733,537; Oct. 29.
- Hellmund, Rudolf E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission system. 1,709,665; Apr. 16.
- Hellsten, Carl, Brooklyn, N. Y. Water heater. 1,698,911; Jan. 15.
- Hellstrand, Edward A., Guildford, England. Adjustable seat for vehicles. 1,703,004; Feb. 19.
- Hellstrand, Edward A., Guildford, England. Sliding window. 1,728,344; Sept. 17.
- Hellstrand, Edward A., Guildford, England. Shock absorber for use in vehicle suspension. 1,740,734; Dec. 24.
- Hellthaler, Theodor. (See Pungs, W., and Hellthaler.)
- Hellvik, Rasmus R., New York, N. Y., assignor to Kaylite Manufacturing Corporation. Light fixture. Des. 79,364; Sept. 10.
- Hellvik, Rasmus R., assignor to S. Kramer, New York, N. Y. Light fixture. Des. 79,425; Sept. 17.
- Hellvik, Rasmus R., assignor to S. Kramer, New York, N. Y. Wall bracket. Des. 79,426; Sept. 17.
- Hellweg, Henry, assignor to Helzen Corporation, Milwaukee, Wis. Moistener. 1,734,293; Nov. 5.
- Hellyer, Clement D., Los Angeles, Calif. Reporting tool. 1,722,794; July 30.
- Helm, Aubrey S., Waurika, Okla. Valved flue for cotton gins. 1,705,362; Mar. 12.
- Helm, Joseph A. (See Ellis, French, assignor.)
- Helma, Paul, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Rigid airship. 1,700,095; Jan. 22.
- Helman, Charles F., Piqua, Ohio. Automobile radiator emblem. Des. 77,956; Mar. 12.
- Helman, Frank, Scammon, Kans. Gasoline strainer. 1,711,093; Apr. 30.
- Helmcamp, Chris F., assignor to Panhandle Refining Company, Wichita Falls, Tex. Burglarproof tool house. 1,724,710; Aug. 13.
- Helmeke, Herman, Chaska, Minn. Fire-hose-nozzle handling and directing implement. 1,721,449; July 16.
- Helmer, Louis, New York, N. Y. Apparatus for conditioning air. 1,735,611; Nov. 12.
- Helmholtz, Arthur W. (See Crawford, J. H., Helmholtz, and Ferrell.)
- Helmholtz, Arthur W., and D. Ferrell, Harrisburg, assignors to Safety Mining Company, Chicago, Ill. Blasting cartridge. 1,723,351; Aug. 6.
- Helmholtz, Henry, and C. C. Bertram, assignors to Barco Manufacturing Company, Chicago, Ill. Locomotive reversing-gear mechanism. Re17,473; Oct. 29.
- Helmholz Shoe Company. (See Berger, H., and Klestinski, assignors.)
- Helmick, Clarence E., assignor to Helmick Hydrostatic Motor Co., Baker, Oreg. Superhydraulic ram. 1,725,637; Aug. 20.
- Helmick Hydrostatic Motor Co. (See Helmick, Clarence E., assignor.)
- Helmrich, Carl, New York, N. Y. Towel and soap dispenser. 1,719,053; July 2.
- Helms, John H., Fortville, Ind. Steam generator. 1,728,968; Sept. 24.
- Helms, William C., Lincolnton, N. C. Hot-air fireback. 1,714,955; May 28.
- Helrich, Herman, New York, N. Y. Safety device for gas ranges. 1,729,425; Sept. 24.
- Helsel, George W., Columbus, Ohio. Fruit gatherer. 1,732,127; Oct. 15.
- Helsel, Reuben H., Long Island City, assignor to Automatic Ticket Register Corporation, New York, N. Y. Ticket-validating device. 1,738,244; Dec. 3.
- Helsing, J. Linus, Des Moines, Iowa. Collapsible wedge block. 1,714,024; May 21.
- Helstrom, Julmer, Virginia, Minn. Dirigible headlight. 1,702,004; Feb. 12.



- Helton, Homer S., Chipley, Fla. Pottery construction. 1,728,967; Sept. 24.
- Heltzel, Francis O., assignor to Truscon Steel Company, Youngstown, Ohio. Concrete form. 1,697,765; Jan. 1.
- Heltzel, John N. (See Gwynne, J., and Heltzel.)
- Heltzel, John N. (See McInerney, Peter J., assignor.)
- Heltzel, John N., Warren, Ohio. Concrete surfacing joint and forming the same. 1,697,563; Jan. 1.
- Heltzel, John N., Warren, Ohio. Collapsible form. 1,700,889; Feb. 5.
- Heltzel, John N., Warren, Ohio. Concrete form. 1,722,144; July 23.
- Heltzel, John N., Warren, Ohio. Bridging. 1,729,741; Oct. 1.
- Heltzel, John N., Warren, Ohio. Traffic line and joint machine and producing same. 1,740,345; Dec. 17.
- Heltzel, Joseph W., Warren, Ohio. Concrete form. 1,700,798; Feb. 5.
- Heltzel, Joseph W., Warren, Ohio. Concrete-grooving device. 1,726,665; Sept. 3.
- Heltzel, Joseph W., Warren, Ohio. Road screed. 1,741,459; Dec. 31.
- Heltzel Steel Form & Iron Company, The. (See Gwynne, J., and Heltzel, assignors.)
- Helvey, Oliver J., La Crescenta, Calif. Street-lighting lantern. Des. 77,957; Mar. 12.
- Helvey, Oliver J., La Crescenta, Calif. Street-lighting lantern. Des. 77,958; Mar. 12.
- Helvey, Oliver J., Glendale, Calif. Street sign. 1,726,955; Sept. 3.
- Helwig, Anna. (See Helwig, John H., A., and W.)
- Helwig, Edward L. (See Hollander, C. S., and Helwig.)
- Helwig, Edward L., Bristol Township, Bucks County, Pa., assignor to Rohm & Haas Company. Stripping dyes from fibers. 1,710,310; Apr. 23.
- Helwig, John H., A., and W., St. Paul, Minn. Bolt and wire cutter. 1,735,317; Nov. 12.
- Helwig, Lehman D. (See Lahr, H. I., and Helwig.)
- Helwig, Wilhelmina. (See Helwig, John H., A., and W.)
- Helzen Corporation. (See Hellweg, Henry, assignor.)
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Overhead track scale. 1,701,039; Feb. 5.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Coin-controlled weighing scale. 1,715,834; June 4.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Scale. 1,741,416; Dec. 31.
- Hemberger, Peter P., Bergenfield, N. J. Attachment for printing presses. 1,712,075; May 7.
- Hemenway, Charles F., Chicago, Ill. Outing kit. 1,729,216; Sept. 24.
- Hemenway, George C., assignor to Hampden Manufacturing Co., New York, N. Y. Marker device. 1,730,007; Oct. 1.
- Hemilton, William R., Harlingen, Tex. Illuminated sign. 1,721,446; July 16.
- Hemleb, Martin, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine bobbin-case latch. 1,702,383; Feb. 19.
- Hemme, William B. (See Macready, G. A., and Hemme.)
- Hemmel, John C., and W. O. Dickinson, Ogdensburg, N. Y. Guard for paper-winding machines. 1,713,382; May 14.
- Hemmen, Albert A. (See Horak, Julius J., assignor.)
- Hemmer, Frederick L., Lincoln, N. J. Smoking pipe. 1,714,559; May 28.
- Hemmerich, Hugo, assignor to Berkshire Knitting Mills, Wyomissing, Pa. Lady's stocking. 1,728,546; Sept. 17.
- Hemmert, Christian J., Wapakonet, Ohio. Leaf spring. 1,722,292; July 30.
- Hemming, Daniel W., Woodcliff, N. J., assignor to The Signature Company, New York, N. Y. Machine for writing a plurality of signatures. 1,708,671; Apr. 9.
- Hemming, Stanley B. (See Allman, G., and Hemming.)
- Hemmingsen, Mathias, Victoria, British Columbia, Canada. Logging device. 1,708,299; Apr. 9.
- Hempel, Albert H., Cleveland, Ohio. Take-up device for clotheslines. 1,730,887; Oct. 8.
- Hemphill Company. (See Bosworth, George P., assignor.)
- Hemphill Company. (See Fisher, Raymond, assignor.)
- Hemphill Company. (See Jones, Frank E., assignor.)
- Hemphill Company. (See Lawson, John and R. H., assignors.)
- Hemphill Company. (See Lawson, Robert H., assignor.)
- Hemple, Leon, St. Louis, Mo. Fountain mop and washer head. 1,731,339; Oct. 15.
- Hempstead, Burns D., deceased. Croton, Ohio; C. W. Hempstead, administratrix. Coffeepot. 1,700,529; Jan. 29.
- Hempstead, Cosette W., administratrix. (See Hempstead, Burns D.)
- Henderhan, Vincent H., Saginaw, Mich. Toothbrush. 1,709,262; Apr. 16.
- Hendersen, Otto A., Racine, Wis. Practice golf-ball device. 1,700,224; Jan. 29.
- Henderson, Albert F., Middleton, Mass. Eraser holder. 1,725,075; Aug. 20.
- Henderson, Arthur J. and E. H. Clifton, assignors to H. Monescross, London, England. Ticket and label for advertising purposes. 1,700,050; Jan. 22.
- Henderson, Charles L., Appleton, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Rotary machine. 1,699,499; Jan. 15.
- Henderson, Charles L., assignor to Paper Patents Company, Neenah, Wis. Sectional paper-machine drive. 1,708,270; Apr. 9.
- Henderson, Chester E., Kokomo, Ind., assignor to Pittsburgh Plate Glass Company. Apparatus for making plate glass. 1,716,312; June 4.
- Henderson, Clarence M., Oakland, assignor to H. C. Macaulay Foundry Company, Berkeley, Calif. Molding machine. 1,714,781; May 28.
- Henderson, Edwin L., assignor to Wilson-Hurd Company, Wausau, Wis. Display board. 1,720,328; July 9.
- Henderson, Elden O., McAllen, Tex. Advertisement carrier for counters. 1,702,692; Feb. 19.
- Henderson, Elden O., McAllen, Tex. Counter. 1,729,268; Sept. 24.
- Henderson, Harry M., Washington, D. C. Coin-controlled mechanism. 1,729,384; Sept. 24.
- Henderson, Harry M., Washington, D. C. Carbonated-beverage container. 1,730,142; Oct. 1.
- Henderson, Harry M., Washington, D. C. Measuring valve. 1,735,390; Nov. 12.
- Henderson, Herbert. (See Prichard, G. L., and Henderson.)
- Henderson, Herbert, and J. G. Glasgow, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Heat exchanger. 1,724,351; Aug. 13.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Instrument-board panel. Des. 79,365; Sept. 10.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Lighting fixture. Des. 79,366; Sept. 10.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Lighting fixture. Des. 79,367; Sept. 10.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Lighting fixture. Des. 79,368; Sept. 10.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Lighting fixture. Des. 79,369; Sept. 10.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Instrument board. Des. 79,427; Sept. 17.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Escutcheon plate. Des. 79,518; Oct. 1.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Container for use in automobile interior fitting or similar article. Des. 79,591; Oct. 15.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Container for use in automobile interior fitting or similar article. Des. 79,592; Oct. 15.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Automobile molding. Des. 80,174; Dec. 24.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Automobile molding. Des. 80,175; Dec. 24.
- Henderson, Herbert V., assignor to Chrysler Corporation, Detroit, Mich. Hood. Des. 80,226; Dec. 31.
- Henderson, James B., Lee, England. Gyroscopic apparatus. 1,707,475; Apr. 2.
- Henderson, James B., Blackheath, England. Gyroscopic stabilization of cameras and other optical instruments. 1,709,314; Apr. 16.
- Henderson, James B., Blackheath, England. Support for gyroscopes and other sensitive elements. 1,734,129; Nov. 5.
- Henderson, James F., assignor to Detroit River Iron Works, Detroit, Mich. Hoisting mechanism. 1,728,861; Sept. 17.
- Henderson, John C., New York, N. Y., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Drawing continuous sheet glass. 1,735,573; Nov. 12.
- Henderson, John E., assignor to one-half to M. F. Johnson, Fort Myers, Fla. Refrigerator and dispensing device. 1,710,621; Apr. 23.
- Henderson, John J. (See Henderson, William, and J. J.)
- Henderson, Morton, Genthon, Manitoba, Canada. Tire-working tool. 1,698,883; Jan. 15.
- Henderson, Nelson H., Syracuse, N. Y. Friction clutch. 1,697,595; Jan. 1.
- Henderson, Nelson H., Syracuse, N. Y. Nozzle for dishwashing machines and the like. 1,702,694; Feb. 19.
- Henderson, Nelson H., assignor to Syracuse Industrial Gas Company, Syracuse, N. Y. Dishwashing machine. 1,737,794; Dec. 3.
- Henderson, Ralph I., Charleston, W. Va. Fishing tool. 1,721,880; July 23.
- Henderson, Ralph I., Charleston, W. Va. Fishing tool. 1,721,881; July 23.
- Henderson, Thomas E., Carievale, Saskatchewan, Canada. Bearing for plow wheels. 1,725,918; Aug. 27.
- Henderson, Wilbert D., San Francisco, Calif. Clamping tool. 1,737,046; Nov. 26.
- Henderson, William, and J. J. Henderson, Philadelphia, Pa. Rug. Des. 80,081; Dec. 10.
- Henderson, William F., Colfax, Wash. Adjustable ratchet wrench. 1,733,012; Oct. 22.
- Henderson, William J., Houston, Tex. Light automotive tractor for general farm use. 1,725,862; Aug. 27.
- Henderson, William N., Syracuse, assignor to Solvay Process Company, Solvay, N. Y. Exploiting gases containing nitrogen, hydrogen, and carbon dioxide. 1,698,722; Jan. 15.
- Hendler, Louis, Philadelphia, Pa., assignor to Secretary of War, and his successors in office, in trust for the Government of the United States. Igniting mixture for tracer compositions. 1,708,174; Apr. 9.
- Hendley, James A., assignor to The Russell Manufacturing Company, Middletown, Conn. Weather strip. 1,719,265; July 2.



Hendley, James A., assignor to The Russell Manufacturing Company, Middletown, Conn. Woven fabric. 1,720,632; July 9.

Hendricks, Allan B., jr., Pittsfield, Mass., assignor to General Electric Company. High-reactance transformer. 1,699,142; Jan. 15.

Hendricks, Allan B., jr., Pittsfield, Mass., assignor to General Electric Company. Electrical testing apparatus. 1,706,158; Mar. 19.

Hendricks, Allan B., jr., Pittsfield, Mass., assignor to General Electric Company. Electric switch. 1,741,296; Dec. 31.

Hendricks, Elfonso H., Lubbock, Tex. Motor. 1,741,460; Dec. 31.

Hendricks, Nathan V., Morenci, Mich. Heater for bituminous materials. 1,709,016; Apr. 16.

Hendricks, Nathan V., Morenci, Mich. Tank distributor. 1,725,581; Aug. 20.

Hendricks, Riley, assignor of one-third to L. K. MacNeill and one-third to G. W. Padbury, jr., Helena, Mont. Fish-bait box. 1,698,018; Jan. 8.

Hendricks, Simeon B., Rockford, Ill., assignor, by mesne assignments, to J. I. Case Company, Racine, Wis. Disk plow. 1,737,420; Nov. 26.

Hendricks, William F., assignor of one-third to F. A. Baschon, Richmond, Va. Animal trap. 1,734,855; Nov. 5.

Hendricks, William R., Danville, Ill. Vacuum tank. 1,721,272; July 16.

Hendrickson, Abram A., Oradell, N. J. Massage apparatus. 1,700,633; Jan. 29.

Hendrickson, Frank G., Kansas City, Mo. Book holder and reading case. 1,721,558; July 23.

Hendrickson, Fred K., assignor to Whitin Machine Works, Whitinsville, Mass. Spindle-driving mechanism. 1,711,055; Apr. 30.

Hendrickson, Harry O., Homestead, Mont. Grain-dusting apparatus. 1,698,436; Jan. 8.

Hendrickson, Ira E., assignor to Wico Electric Company, West Springfield, Mass. Magneto. 1,700,677; Jan. 29.

Hendrickson, Ira E., assignor to Wico Electric Company, West Springfield, Mass. Magneto. 1,736,441; Nov. 19.

Hendrickson, John H., Chisholm, Minn. Animal trap. 1,716,959; June 11.

Hendrickson, N. E., et al. (See Bright, Barton R., assignor.)

Hendrickson, Robert O., Racine, Wis. Tractor belt. 1,722,795; July 30.

Hendrickson, Walter H., and C. A. Brantingham, assignors to Emerson-Brantingham Corporation, Rockford, Ill. Medicine cabinet. 1,721,953; July 23.

Hendrikson, Otto L., Spokane, Wash. Adjustable visor. 1,704,894; Mar. 12.

Hendrickx, Jean J., assignor to Societe Anonyme Etablissements Poliet & Chausson, Paris, France. Industrial manufacture of artificial Portland cement. 1,728,828; Sept. 17.

Hendrix, Charles E., Jefferson City, Mo. Automobile window awning. 1,709,574; Apr. 16.

Hendry, Adolph R. and C. Passaic, N. J. Tire-patch-outting apparatus. 1,731,132; Oct. 8.

Hendry, Charles. (See Hendry, Adolph R. and C.)

Hendry, Johnson F. (See Mullaney, D. A., and Hendry.)

Hendry, William F., Ossining, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry-cell-sealing device. 1,697,596; Jan. 1.

Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc. Transformer-core structure. 1,707,009; Mar. 26.

Hendry, William F., Ossining, assignor to Halliwell-Shelton Electric Corporation, New York, N. Y. Hair drier. 1,707,554; Apr. 2.

Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc. Electrode for discharge tubes. 1,715,326; May 28.

Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc. Sign receptacle. 1,722,915; July 30.

Hendry, William F., Ossining, assignor to Troy Laundry Machinery Co., Inc., New York, N. Y. Laundry apparatus. 1,722,984; July 30.

Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company. Luminous-tube sign. 1,724,584; Aug. 13.

Hendryx, Andrew B., Company, The. (See Hendryx, Nathan W., assignor.)

Hendryx, Andrew B., Company, The. (See Hoefler, Herbert G., assignor.)

Hendryx, Andrew B., Company, The. (See Leon, Lewicki J., assignor.)

Hendryx, Andrew B., Company, The. (See Oliver, Robert S., assignor.)

Hendryx, Andrew B., Company, The. (See Tullis, Ross L., assignor.)

Hendryx, Nathan W., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird-cage top. Des. 79,331; Sept. 3.

Hengesbach, Leo J., Cleveland Heights, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Faucet. 1,727,169; Sept. 3.

Henggi, Gottfried, Bellingham, Wash. Match box or holder. 1,729,481; Sept. 24.

Henglein, Friedrich A., Cologne-Deutz, and F. Schleicher, Wiesdorf-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture and production of acetic acid anhydride from acetic acid. 1,735,433; Nov. 12.

Hengst, Fredrick G., Blythe, Calif. Mechanism for elevating and turning cultivators, hayrakes, or the like. 1,719,054; July 2.

Hengstenberg, Paul M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Loop antenna. 1,709,666; Apr. 16.

Hengstenberg, Paul M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal for electric conductors. 1,729,873; Oct. 1.

Henigan, Thomas A., Quincy, Ill. Foot supporting and correcting device. 1,716,634; June 11.

Henk, Wilhelm, Vienna, Austria. Projector table. 1,735,276; Nov. 12.

Henke, Frederick, assignor, by mesne assignments, to A. H. Fox Gun Company, Philadelphia, Pa. Cartridge for toy guns. 1,735,079; Nov. 12.

Henkel & Cie. G. m. b. H. (See Riehl, E., and Lind, assignors.)

Henkel-Clauss Company, The. (See Bruninghaus, Hugo, assignor.)

Henkel, Paul H., assignor to Continental Rubber Works, Erie, Pa. Box mold. 1,720,362; July 9.

Henkel, Paul H., assignor to Continental Rubber Works, Erie, Pa. Battery box. 1,720,363; July 9.

Henker, Otto, assignor to the firm Carl Zeiss, Jena, Germany. Determining the squint deflection. 1,702,258; Feb. 19.

Henkle, John R., Chicago, Ill., assignor to Mercury Manufacturing Company. Portable jack. 1,740,299; Dec. 17.

Henle, Edward J., Cleveland, Ohio. Stand for articles. 1,717,560; June 18.

Henle, Edward J., Akron, Ohio. Tire stand. 1,722,796; July 30.

Henley, Dennis B. (See Walker, E. R., and Henley.)

Henley, Eugene H., Chicago, Ill. Preparing bituminous-cement-aggregate compound. 1,703,999; Mar. 5.

Henn, Alfred A., et al. (See Jacobson, Elmer C., assignor.)

Henne, Isabelle. (See Preo, J. L., and Henne.)

Henneberger, Thomas C., Montclair, N. J., assignor to American Telephone and Telegraph Company. Electrical testing system. 1,729,644; Oct. 1.

Henneböhle, Frank, Chicago, Ill. Oil burner. 1,741,364; Dec. 31.

Hennecke, C., Company. (See Holts, Charles, assignor.)

Hennessey, Jeremiah J., jr., Newton, Mass. Fire screen. 1,703,622; Feb. 26.

Hennessey, Burtice, Albany, N. Y. Violin bridge. 1,699,469; Jan. 15.

Hennessey, Charles C. (See Taylor, J. B., and Hennessey.)

Hennessey, Daniel E. (See Shepard, F. J., jr., Warshaw, and Hennessey.)

Hennessey, Daniel E. (See Warshaw, N., and Hennessey.)

Hennessey, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Band-forming machine. 1,716,552; June 11.

Hennessey, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus and method for forming fabric and rubber elements. 1,727,372; Sept. 10.

Hennessey, Daniel E., Cambridge, assignor to Lewis-Shepard Company, Watertown, Mass. Elevating truck. 1,741,712; Dec. 31.

Hennessey, James J., New York, N. Y. Locomotive driving box. 1,730,933; Oct. 8.

Hennessey, James J., New York, N. Y. Lubricator. 1,699,431; Jan. 15.

Hennessey, James J., New York, N. Y. Lubricator. 1,704,742; Mar. 12.

Hennessey, James J., New York, N. Y. Lubricator. 1,704,743; Mar. 12.

Hennessey, James J., New York, N. Y. Constant-level lubricator. 1,707,662; Apr. 2.

Hennessey, James J., New York, N. Y. Lubricator. 1,730,934; Oct. 8.

Henneuse, Clarence A., Sacramento, Calif., assignor to Hadfield-Penfield Steel Company, Bucyrus, Ohio. Tractor tread. 1,704,857; Mar. 12.

Hennicke, Carl R., assignor to The Eberhard Manufacturing Company, Cleveland, Ohio. Hood fastener. 1,702,506; Feb. 19.

Hennicke, Carl R., assignor to The Eberhard Manufacturing Company, Cleveland, Ohio. Hood fastener. 1,702,507; Feb. 19.

Hennicke, Charles A., Buffalo, N. Y., assignor to The Eberhard Manufacturing Co., Cleveland, Ohio. Door control. 1,704,476; Mar. 5.

Hennig, Charles T., Cleveland, Ohio. Desulphurizing steel. 1,717,153; June 11.

Henning, Eugene P. (See Sanders, Carlton J., assignor.)

Henning, Wilhelm, and F. Gadeke, Hamburg, Germany. Ice apparatus. 1,698,332; Jan. 8.

Henning, William, Peru, Nebr. Flytrap. 1,704,744; Mar. 12.

Henning, William J., El Paso, Tex., assignor to American Meter Company, Inc., Baltimore, Md. Gas-meter construction. 1,723,509; Aug. 6.

Henrikson, John W., Stockholm, Sweden. Arrangement in water-closets. 1,740,346; Dec. 17.



- Henrichsen, Knut, Garden City, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Aeroplane landing gear. 1,718,956; July 2.
- Henrici, Fritz W. A. (See Anderson, A., and Henrici.)
- Henricks, Arthur G., Wauwatosa, assignor to Harnischfeger Corporation, Milwaukee, Wis. Steering gear. 1,710,686; Apr. 30.
- Henricks, Arthur G., Wauwatosa, assignor to Harnischfeger Corporation, Milwaukee, Wis. Steering gear. 1,715,656; June 4.
- Henricks, Harold H., Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car-door mounting. 1,730,143; Oct. 1.
- Henricks, Harold H., Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Railway-car-door construction. 1,730,144; Oct. 1.
- Henricson, Edwin, Detroit, Mich. Tool holder. 1,697,868; Jan. 8.
- Henricson, Edwin, Detroit, Mich. Punch assembly. 1,723,935; Aug. 6.
- Henrikson, Carl G. (See Jones, L. S., Fisher, and Henrikson.)
- Henrikson, Carl G. (See Jones, L. S., Fisher, Henrikson, and Butler.)
- Henrion, Eugene C., Chicago, Ill. Thermostatic control. 1,725,799; Aug. 27.
- Henrizi, Charles F., Menomonee Falls, Wis. Golf-ball cleaner. 1,730,973; Oct. 8.
- Henry, Albert C. (See Brady, William B., assignor.)
- Henry, Albert C. (See Henry, Ralph L., assignor.)
- Henry, Andrew L., and G. S. Moore, assignors to Trolley Shoe-Wheel Company, Indianapolis, Ind. Trolley. 1,698,591; Jan. 8.
- Henry, Andrew L., and G. S. Moore, assignors to Trolley Shoe-Wheel Company, Indianapolis, Ind. Trolley. 1,703,768; Feb. 26.
- Henry, Arthur J., assignor of one-half to S. J. Bush, Los Angeles, Calif. Electrically-heated steam radiator. 1,731,624; Oct. 15.
- Henry, Arthur J., assignor of one-half to S. J. Bush, Los Angeles, Calif. Electrical heating unit for tanks. 1,739,030; Dec. 10.
- Henry, Beulah L., New York, N. Y. Sealing device for inflatable bodies. 1,723,482; Aug. 6.
- Henry, Beulah L., New York, N. Y. Valve for inflatable articles. 1,723,855; Aug. 6.
- Henry, Cashly A., Dayton, Ohio. Electrical plate unit. 1,721,116; July 16.
- Henry, Catherine E., executrix. (See Henry, Walter M., assignor.)
- Henry, Charles A., Paris, France. Rail-connecting system for railroads and the like. 1,719,011; July 2.
- Henry, Charles C. (See Cooley, Austin G., assignor.)
- Henry, Earl S., Medford, Okla. Steam scoring machine for ice. 1,737,308; Nov. 26.
- Henry, Edward P., and R. A. Morton, Long Beach, Calif., assignors to Western Wheeled Scraper Company, Aurora, Ill. Grading and loading apparatus. 1,710,477; Apr. 23.
- Henry, Ferdinand G., New York, N. Y., assignor to Fairchild Aerial Camera Corporation. Gyroscopic control system. 1,731,776; Oct. 15.
- Henry, George A., Indianapolis, Ind. Massage brush. 1,705,249; Mar. 12.
- Henry, George G., and S. Fales, New York, N. Y. Firearm. 1,710,638; Apr. 23.
- Henry, George W., jr., Philadelphia, assignor to Soabar Company, Philadelphia, Pa. Feeding tags and like articles and mechanism therefor. 1,735,643; Nov. 12.
- Henry, George W., jr., assignor to Soabar Company, Philadelphia, Pa. Ticket-printing machine. 1,715,290; May 28.
- Henry, Glenn C. (See Yunker, Prosper R., assignor.)
- Henry, Guy P., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,726,739; Sept. 3.
- Henry, Hugh, Santa Ana, Calif. Traffic-guide-line marker. 1,720,273; July 9.
- Henry, Ira W., Greenwich, Conn., assignor to Ionizing Corporation of America, New York, N. Y. Apparatus for ionization and catalytic treatment of matter. 1,709,813; Apr. 16.
- Henry, Ira W., Greenwich, Conn., assignor to Ionizing Corporation of America, New York, N. Y. Apparatus for and method of ionization and hydrogenation of hydrocarbon starting material, vapor, and oil. 1,709,814; Apr. 16.
- Henry, Ira W., Greenwich, Conn., assignor to Ionizing Corporation of America, New York, N. Y. Apparatus and method for dissociating hydrocarbon fluids and solids for production of gases and liquids of lighter molecular weight. 1,709,815; Apr. 16.
- Henry, James L., et al., trustees. (See Rightenour, Asa L., assignor.)
- Henry, James N., Providence, R. I. Curtain-rod bracket. 1,713,531; May 21.
- Henry, John W., Crawfordsville, Ind. Plastic-molding device. 1,708,421; Apr. 9.
- Henry, John W., Crawfordsville, Ind. Block-molding machine. 1,715,920; June 4.
- Henry, John W., Crawfordsville, Ind. Plastic-block mold. 1,721,514; July 23.
- Henry, Joseph T., York, Pa. Ice-cream freezer. 1,710,578; Apr. 23.
- Henry, Marion J., Fort Madison, Iowa. Bolt and nut lock. 1,741,234; Dec. 31.
- Henry, Marion J., Fort Madison, Iowa. Lubricating device. 1,741,235; Dec. 31.
- Henry, Mary A., New Castle, Pa. Curtain shade. Des. 78,573; May 21.
- Henry, Murray W., San Antonio, Tex. Pressure-drop alarm system. 1,703,734; Feb. 26.
- Henry, Ralph L., Detroit, Mich., assignor to A. C. Henry, Inwood, N. Y. Resilient coupling connection for vehicle springs. 1,735,899; Nov. 19.
- Henry, Verner S., Summit, A. Wright, Upper Montclair, F. W. Young, Verona, N. J., assignor to Filtration Engineers, Inc., New York, N. Y. Apparatus and method for treating finely-divided solids. 1,726,511; Aug. 27.
- Henry, Walter M., deceased, Hazleton, Pa.; C. E. Henry, executrix. Headlight glare shield. 1,710,678; Apr. 23.
- Henry, William, Newark, N. J. Instrument support for music stands. 1,734,577; Nov. 5.
- Henry, William C., assignor of one-half to W. Johnson, Bellefonte, Pa. Belt buckle. 1,738,900; Dec. 10.
- Henry, William S., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 1,733,985; Oct. 29.
- Henry, William T., Houston, Tex. Garment hanger. 1,697,597; Jan. 1.
- Henryson, Clarence J., St. Paul, Minn. Line hanger. 1,697,977; Jan. 8.
- Henschel, Minnie, Oshkosh, Wis. Combination telephone bookstand and calendar. 1,740,855; Dec. 24.
- Henshall, Percival P., assignor to John J. Nesbitt, Inc., Philadelphia, Pa. Manufacturing radiator. 1,703,527; Feb. 26.
- Henshall, Percival P., assignor to John J. Nesbitt Inc., Philadelphia, Pa. Reversible heating or cooling radiator. 1,710,579; Apr. 23.
- Hensley, Charles G. (See Lisenard, G., and Hensley.)
- Henszey, Roy O., Oconomowoc, Wis. Heat exchanger. 1,740,300; Dec. 17.
- Hentrich, Winfried. (See Duisberg, W., Hentrich, and Zeh.)
- Hentrich, Winfried, Wiesdorf-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Carboxylated N- $\omega$ -amino-alkylaminonaphthalenes. 1,727,506; Sept. 10.
- Hentrich, Winfried, Wiesdorf-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs. 1,732,512; Oct. 22.
- Hentrich, Winfried, Wiesdorf-on-the-Rhine, R. Knoche, Leverkusen-on-the-Rhine, and M. Hardtmann, Wiesdorf-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing of artificial silk. 1,711,890; May 7.
- Hentrich, Winfried, and M. Hardtmann, Wiesdorf-on-the-Rhine, and R. Knoche, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Condensation products of the benzodiazine series and making same. 1,724,086; Aug. 13.
- Hentrich, Winfried, and M. Hardtmann, Wiesdorf-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New azo dyestuffs. 1,730,207; Oct. 1.
- Hentschel, Paul J., assignor to Monarch Products Company, Baltimore, Md. Gas-stove-due attachment. 1,739,968; Dec. 17.
- Hentz, Thomas E., Pomaria, S. C. Cotton harvester. 1,722,747; July 30.
- Hentzler, Hermann, Berlin-Schöneberg, Germany. Support for trousers. 1,724,480; Aug. 13.
- Hentzschel, Curt, assignor to Hentzschel Elektro-Bucher Gesellschaft mit beschränkter Haftung, Grossalmerode, near Cassel, Germany. Card filing and selecting apparatus. 1,709,430; Apr. 16.
- Hentzschel Elektro-Bucher Gesellschaft mit beschränkter Haftung. (See Hentzschel, Curt, assignor.)
- Henvis, John M., Philadelphia, Pa. Parachute-deflating means. 1,733,732; Oct. 29.
- Henze, Bruno. (See Jochimsen, R., and Henze.)
- Henzel, John, Budapest, Hungary. Magazine pencil. 1,701,263; Feb. 5.
- Hepburn, William M., assignor to Surface Combustion Company, New York, N. Y. Method of and apparatus for the control of combustion. 1,710,772; Apr. 30.
- Hepburn, William M., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Tunnel-type gas burner. 1,714,473; May 21.
- Hepburn, William M., and E. W. Weaver, assignors to The Surface Combustion Company, Inc., Toledo, Ohio. Annealing furnace. 1,716,956; June 11.
- Hepler, Carmon F., Seneca, Pa. Fastening means. 1,707,720; Apr. 2.
- Heppner, Jacob Q., assignor of one-half to H. E. Peardon, Los Angeles, Calif. Dilator. 1,714,474; May 21.
- Hepppe, Florence J., Philadelphia, Pa. Piano and the like. 1,732,748; Oct. 22.
- Heppes, Otto A. (See Kirschbraun, L.)
- Heppes, Otto A., La Grange, Ill., assignor to The Flintkote Company, Boston, Mass. Roofing. 1,722,962; July 30.
- Heppner, Walter A. (See Steiger, B. F., Heppner, and Holt.)
- Herald, M. A., et al. (See Stebler, William J., assignor.)
- Herbener, Henry M., Memphis, Tenn., assignor by mesne assignments, to Consolidated Mattress Co., Boston, Mass. Method of and apparatus for producing felt and product obtained therefrom. 1,710,977; Apr. 30.



- Herbener, Henry M., Memphis, Tenn., assignor, by mesne assignments, to Consolidated Mattress Co., Boston, Mass. Method of and apparatus for producing mattresses. 1,710,978; Apr. 30.
- Herbener, Henry M., Thomasville, Ga., assignor, by mesne assignments, to Consolidated Mattress Co., Boston, Mass. Method and apparatus for making mattresses. 1,710,979; Apr. 30.
- Herbener, Henry M., Thomasville, Ga., assignor, by mesne assignments, to Consolidated Mattress Co. Apparatus for making mattresses. 1,725,800; Aug. 27.
- Herbener, Henry M., Thomasville, Ga. Invisible garter. 1,731,100; Oct. 8.
- Herber, Ralph W., Pontiac, Mich. Windshield attachment. 1,733,408; Oct. 29.
- Herberg, Edward S., Astoria, N. Y., assignor to Barker Bros., Inc. Buffing wheel. 1,715,362; June 4.
- Herberger, George, sr., Lincoln, Ill. Pouring vessel. 1,708,416; Apr. 9.
- Herbermann, Frederick C., Mount Vernon, N. Y. Self-winding clock. 1,715,500; June 4.
- Herbert, Alfred, Limited. (See Jackson, Ralph, assignor.)
- Herbert, Alfred, Montclair, N. J. Flying machine. 1,704,831; Mar. 12.
- Herbert, Charles C., San Jose, Calif. Clothes-washing machine. 1,735,391; Nov. 12.
- Herbert, John R., Kittanning, Pa. Antiskid device. 1,733,963; Oct. 29.
- Herbert, William C., New York, N. Y. Garment supporter. 1,705,616; Mar. 19.
- Herby, Fredrick C., et al. (See Swanson, Charles J., assignor.)
- Hercules Powder Company. (See Babcock, Leon W., assignor.)
- Hercules Powder Company. (See Bent, Leavitt N., assignor.)
- Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
- Hercules Powder Company. (See Humphrey, I. W., and Bent, assignors.)
- Hercules Powder Company. (See Kaiser, H. E., and Hancock, assignors.)
- Hercules Powder Company. (See Kaiser, H. E., and Lagmeier, assignors.)
- Hercules Powder Company. (See Langmeier, Arthur, assignor.)
- Hercules Powder Company. (See McBride, Lewis M., assignor.)
- Hercules Powder Company. (See Norman, George M., assignor.)
- Hercules Powder Company. (See Reid, Ebenezer E., assignor.)
- Hercules Powder Company. (See Smith, Lee T., assignor.)
- Hercules Products Company. (See Rushton, Elmer T., assignor.)
- Hercules Products, Inc. (See Reidhaar, Frank P., assignor.)
- Herget, John B., and A. F. Walloch, Seattle, Wash. Aircraft flight control. 1,721,818; July 23.
- Hering, Theodore G., assignor to International Shoe Company, St. Louis, Mo. Linear measuring instrument. 1,725,981; Aug. 27.
- Heritage, Clark C., Cornell, Wis. Inductively-heated drying drum. 1,701,156; Feb. 5.
- Herklots, Johannus G. M., Samarang, Java. Sound-reproducing machine. 1,720,899; July 16.
- Herlach, Fritz, and T. Rakula, Dusseldorf, assignors to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Automatic firearms. 1,709,399; Apr. 16.
- Herlihy, Theodore E., Los Angeles, Calif. Gauge. 1,714,782; May 28.
- Herlihy, Thomas F., assignor to Dictaphone Corporation, Bridgeport, Conn. Record-resurfacing machine. 1,726,894; Sept. 3.
- Herlinger, Harold V. (See Beebe, M. C., Herlinger, and Swain.)
- Herm, Ole G. (See Hollingsworth, Carl W., assignor.)
- Herm, Ole G., Marshalltown, Iowa. Awning. 1,715,756; June 4.
- Herman, Charles, Chloride, Ariz. Shoe-lace clasp. 1,732,681; Oct. 22.
- Herman, Claude A., Stratford, Conn. Hand piece for flexible shafts for free-hand milling operations. Des. 78,517; May 14.
- Herman, Claude A., Stratford, Conn. Hand piece for flexible shafts for free-hand milling operations. Des. 78,518; May 14.
- Herman, Claude A., Stratford, Conn. Electric drive. 1,719,226; July 2.
- Herman, Florentine P., West Palm Beach, Fla. Surgical instrument. 1,731,069; Oct. 8.
- Herman, Florentine P., West Palm Beach, Fla. Surgical instrument. 1,741,461; Dec. 31.
- Herman, Gilmore N., and A. W. T. Mohr, assignors to Alloy Steel Corporation, Chicago, Ill. Road marker. 1,728,275; Sept. 17.
- Herman, Henry F., Chappaqua, N. Y. Electric condenser having indicating means combined therewith. 1,725,639; Aug. 20.
- Herman, Henry F., Chappaqua, assignor to Straitline Radio Corporation, New York, N. Y. Combined electric condenser and indicator. 1,718,783; June 25.
- Herman, John H., Long Beach, Calif. Pump. 1,703,423; Feb. 26.
- Herman, John H., New Castle, Pa. Fishing tool. 1,734,807; Nov. 5.
- Herman, Joseph, Westfield, N. J., assignor to American Telephone and Telegraph Company. Measuring differences in time of propagation of wave fronts of different frequencies over a circuit. 1,730,368; Oct. 8.
- Herman, Joseph, Westfield, N. J., assignor to American Telephone and Telegraph Company. Telegraph repeater circuits. 1,738,786; Nov. 26.
- Herman, Joseph, Westfield, and S. B. Wright, South Orange, N. J., assignors to American Telephone and Telegraph Company. Volume regulation in two-way telephone circuits. 1,740,856; Dec. 24.
- Hernance, Frances E., executrix. (See Hernance, William E.)
- Hernance, William E., deceased, Norfolk, Va.; F. E. Hernance, executrix. Straightening printing plates. 1,728,207; Sept. 17.
- Herman, Henry, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Rip-strip can or container. 1,727,827; Sept. 10.
- Hermann, Adolph F. (See Hermann, John F., assignor.)
- Hermann, John F., Rock Island, Ill., assignor of one-half to A. F. Hermann. Charge-forming device for internal-combustion engines. 1,722,145; July 23.
- Hermann, Karl L., Detroit, Mich. Apparatus for picking cotton. 1,707,010; Mar. 26.
- Hermann Manufacturing Company, The. (See Wessel, Ludwig H., assignor.)
- Hermann, Otto J., Lakewood, Ohio. Rotary game. 1,709,401; Apr. 16.
- Hermann, Wolfgang, assignor to Metal Specialties Manufacturing Co., Chicago, Ill. Spraying-machine casing. Des. 78,205; Apr. 9.
- Hermann, Wolfgang, assignor to Metal Specialties Manufacturing Co., Chicago, Ill. Spraying-machine casing. Des. 78,206; Apr. 9.
- Hermann, Wolfgang, assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Electric-reel switch. 1,737,809; Nov. 26.
- Hermann, Otto, Hagen, Germany. Manufacturing forks with two and more prongs. 1,733,260; Oct. 29.
- Hermanson, Herman, Minden, Nebr. Agricultural tool. 1,711,847; May 7.
- Hermant, Percy, Limited. (See Butler, Albert, assignor.)
- Hermes Magyar Általános Váltóüzlet Részvénytársaság. (See Schimanek, Emil, assignor.)
- Hermisdorf, Ewald, Brunswick, Germany. Apparatus for feeding powdered fuel. 1,699,588; Jan. 22.
- Hermisdorf-Schomburg-Isolatoren G. m. b. H. (See Ziesche, Otto P., assignor.)
- Hermisdorf, Walter H. (See Goldberg, S. H., and Hermisdorf.)
- Hernandez Posada, Octavio A. (See Casanova, A. de A., and Hernandez Posada.)
- Herne, Signor. (See Drolette, H. A., Herne, and Harrington.)
- Herold, Lawrence C., Cleveland, Ohio. Rotary brush. 1,706,159; Mar. 19.
- Herold, Walter F., assignor to The Chaney Manufacturing Company, Springfield, Ohio. Bathtub thermometer. Des. 79,137; Aug. 6.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Spring ring. 1,696,912; Jan. 1.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,713,656; May 21.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Compensating caster, slide, or the like. 1,721,301; July 16.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,727,976; Sept. 10.
- Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Furniture slide. 1,734,727; Nov. 5.
- Herr, Benjamin G. (See Herr, John and B. G.)
- Herr, Charles W., Philadelphia, Pa. Automatic shutter for automobile radiators. 1,713,281; May 14.
- Herr, Herbert T., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Refrigerator. 1,697,185; Jan. 1.
- Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company. Diesel engine. 1,701,363; Feb. 5.
- Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company. Diesel-generator combination. 1,701,364; Feb. 5.
- Herr, Herbert T., Merion, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-plant installation. 1,701,365; Feb. 5.
- Herr, Herbert T., Merion, and A. T. Kasley, Moores, Pa., assignors to Westinghouse Electric & Manufacturing Company. Internal-combustion engine. 1,701,366; Feb. 5.
- Herr, Herbert T., Merion, and A. T. Kasley, Moores, Pa., assignors to Westinghouse Electric & Manufacturing Company. Scavenger air apparatus. 1,701,371; Feb. 5.
- Herr, John and B. G., near Lebanon, Ind. Seed harvester. 1,727,431; Sept. 10.
- Herr, Shirl, Crawfordsville, assignor of one-half to Luten Engineering Company, Indianapolis, Ind. Position indicator. 1,728,904; Sept. 17.
- Herre, Alfred. (See Bauer, W., Herre, and Funke.)



- Herrenbruck, Herman, assignor to Orbon Stove Co., Belleville, Ill. Cooking stove. Des. 78,026; Mar. 19.
- Herrenbruck, Herman, assignor to Orbon Stove Co., Belleville, Ill. Stove. Des. 79,715; Oct. 29.
- Herrenbruck, Herman, assignor to Orbon Stove Co., Belleville, Ill. Stove. 1,734,578; Nov. 5.
- Herrenbruck, Herman, assignor to Orbon Stove Co., Belleville, Ill. Stove casing. 1,741,297; Dec. 31.
- Herrshoff, Lewis F., Marblehead, Mass., assignor to Dyer Motorcraft Corporation, Providence, R. I. Boat. 1,698,304; Jan. 8.
- Herrick, Horace T., and O. E. May, Washington, D. C., assignors to the Government and the People of the United States of America. Manufacture of gluconic acid. 1,726,067; Aug. 27.
- Herrin, Charles W., Kansas City, Mo. Rotary drilling apparatus. 1,709,074; Apr. 16.
- Herring, Burton R., Libertyville, Ill. Coffee pot. Des. 78,353; Apr. 23.
- Herring, Percy H. (See Auld, S. J. M., Dunstan, and Herring.)
- Herrington, Harold W. (See Edwards, P. G., and Herrington.)
- Herriot, Frederick B., Myrtle Beach, Conn. Windshield clamp. 1,710,732; Apr. 30.
- Herrmann, Edmund, and F. Pohn, assignors to W. V. Guttman, Vienna, Austria. Driving device. 1,718,147; June 18.
- Herrmann, Ernest W. F., San Antonio, Tex. Plunger. 1,735,757; Nov. 12.
- Herrmann, Heinrich, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Turbine locomotive. 1,712,992; May 14.
- Herrmann, Karl L., Detroit, Mich. Apparatus for picking cotton. 1,702,508; Feb. 19.
- Herrmann, Louis T., San Diego, Calif. Typewriter desk. 1,739,070; Dec. 10.
- Herrmann, Otto. (See Schmidt, M. P., and Herrmann.)
- Herrmann, Paul E., assignor to Herrmann Supply Company Inc., New York, N. Y. Steaming tube for permanent waving. 1,714,872; May 28.
- Herrmann, Paul E., assignor to Herrmann Supply Company Inc., New York, N. Y. Tube closure and guard for permanent waving. 1,714,873; May 28.
- Herrmann Supply Company Inc. (See Herrmann, Paul E., assignor.)
- Herrmann, Willy O., and H. Deutsch, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Manufacture of acetaldehyde. 1,714,783; May 28.
- Herrmann, Willy O., and W. Haehnel, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Production of polymerized vinyl acetate. 1,710,825; Apr. 30.
- Herrold, Albert E. (See Frazier, G. H., and Herrold.)
- Herron, George A., assignor of fifty-one per cent to T. B. Cole, Ottawa, Ontario, Canada. Whipper. 1,713,828; May 21.
- Hertschaft, William, New York, N. Y. Sign or optical apparatus. 1,737,238; Nov. 26.
- Herschede, Edward F., Cincinnati, Ohio. Wrist-strap structure. 1,718,821; June 25.
- Herschede, Edward F., Cincinnati, Ohio. Wrist-watch band. 1,733,538; Oct. 29.
- Herschede Hall Clock Company, The. (See Pike, George, assignor.)
- Herschel, Alfred, New York, N. Y. Radio loud-speaker. 1,710,622; Apr. 23.
- Hersey, Arthur J., Minneapolis, Minn., assignor to Automotive Products Co. Spring-cushioning device. 1,725,189; Aug. 20.
- Hersey Manufacturing Company. (See Tilden, James A., assignor.)
- Hersey Manufacturing Company. (See Winton, Henry D., assignor.)
- Hersh, Harry, Milwaukee, Wis. Electric log. 1,719,266; July 2.
- Hersh, Lovell A., assignor to H. Bohn, Dayton, Ohio. Clothes wringer. 1,716,055; June 4.
- Hersh, Lovell A., assignor to H. Bohn, Dayton, Ohio. Clothes-washing machine. 1,725,351; Aug. 20.
- Hersh, Lowell A. (See Stowell, W. G., and Hersh.)
- Hershberg, Samuel M., Brooklyn, N. Y. Focusing mechanism. 1,726,350; Aug. 27.
- Hershberger, David C., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-conductor extension. 1,700,586; Jan. 29.
- Hersher, Jacob, Brooklyn, assignor of one-half to Solomon Tauber, New York, N. Y. Trousers. Des. 80,120; Dec. 17.
- Hershey, George S., Los Angeles, Calif. Powder puff. Des. 79,192; Aug. 13.
- Hershey Manufacturing Company. (See Hershey, Orville S., assignor.)
- Hershey Manufacturing Company. (See Van Sickel, Ernest J., assignor.)
- Hershey, Milton S., Hershey, Pa. Manufacturing sugar. 1,740,693; Dec. 24.
- Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Switch mechanism. 1,730,426; Oct. 8.
- Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,732,749; Oct. 22.
- Hershfield, Della B., Spokane, Wash. Mattress cover. 1,701,038; Feb. 5.
- Hershman, Paul R., assignor of twenty-five per cent to C. O. Sethness, twenty-five per cent to C. H. Sethness, and twenty-five per cent to P. Rudnic, Chicago, Ill. Production of solid stable hypochlorites yielding hypochlorous acid. 1,732,230; Oct. 22.
- Herskowitz, Israel. (See Rosenhaft, Isaac, assignor.)
- Hersleb, William. (See Bramsen, S., and Hersleb.)
- Herst, Ward F., assignor to Wolverine Brass Works, Grand Rapids, Mich. Valve structure. 1,721,954; July 23.
- Hertel, Charles C., Ridgewood, N. J., assignor to C. K. Eagle & Co., Inc. Color card. 1,733,539; Oct. 29.
- Hertel, Otto H. (See Greene, F. C., and Hertel.)
- Hertel, Otto H., Chicago, Ill. Method of and apparatus for the distillation of carbonaceous material. 1,731,165; Oct. 8.
- Herthel, Eugene C. (See Isom, E. W., Herthel, and Pelzer.)
- Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,721,779; July 23.
- Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,721,780; July 23.
- Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Treatment of casing-head gasoline. 1,733,800; Oct. 29.
- Herthel, Eugene C., and H. L. Pelzer, assignors to Sinclair Refining Company, Chicago, Ill. Cracking hydrocarbons. 1,703,528; Feb. 26.
- Herthel, Eugene C., and H. L. Pelzer, assignors to Sinclair Refining Company, Chicago, Ill. Cracking of heavier hydrocarbon oils. 1,703,529; Feb. 26.
- Herthel, Eugene C., Chicago, Ill., and H. L. Pelzer, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,714,090; May 21.
- Herthel, Eugene C., Chicago, Ill., and H. L. Pelzer, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,714,091; May 21.
- Herthel, Eugene C., Chicago, Ill., and H. L. Pelzer, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,733,799; Oct. 29.
- Herting, Otto, assignor to Sani Paper Products Co. Inc., Philadelphia, Pa. Cooking utensil. 1,699,843; Jan. 22.
- Herting, Otto, assignor to Sani Paper Products Co. Inc., Philadelphia, Pa. Cooking utensil. 1,699,844; Jan. 22.
- Hertrich, Frederick W., and B. Cataline, Flint, assignors to General Motors Corporation, Detroit, Mich. Brake. 1,723,419; Aug. 6.
- Hertz, Gustav L., assignor to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Manufacture of oxide cathodes. 1,720,675; July 16.
- Hertz, Gustav L., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electric discharge tube. 1,726,107; Aug. 27.
- Hertz, Gustav L., assignor to Naamlooze Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electron-emitting cathode. 1,735,080; Nov. 12.
- Hertz, Walter, Cologne-on-the-Rhine, Germany. Bathing dress. Re17,404; Aug. 13.
- Hertzberg, Harry, Brooklyn, assignor to M. Propp, New York, N. Y. Electric-current tap and connector fitting. 1,709,431; Apr. 16.
- Hertzberg, Harry, Brooklyn, N. Y. Internal irrigator. 1,710,701; Apr. 30.
- Hertzberg, Harry, Brooklyn, N. Y. Tuft fastener for wire brushes. 1,735,277; Nov. 12.
- Hertzberg, Harry, Brooklyn, N. Y. Universal mop. 1,735,278; Nov. 12.
- Hertzberg, Harry, Brooklyn, N. Y. Wet mop. 1,735,279; Nov. 12.
- Hertzberg, Harry, Brooklyn, N. Y. Mop with wringer attachment. 1,735,280; Nov. 12.
- Hertzberg, Harry, Brooklyn, N. Y. Mop and wringer combined. 1,735,281; Nov. 12.
- Hervig, Otto. (See Breest, F., and Hervig.)
- Herweg, Walter P., Los Angeles, Calif. Star-shaped electric-light fixture. 1,728,547; Sept. 17.
- Herwig, Conrad, Jr., and W. J. Spielman, assignors to The Favorite Stove & Range Company, Piqua, Ohio. Range construction. 1,734,674; Nov. 5.
- Herwig, Henry F., Seattle, and M. M. Lynch, Spokane, Wash. Rectal and vaginal electrodes. 1,704,000; Mar. 5.
- Herwig, William D., Chicago, Ill. House numbering and the like. 1,727,234; Sept. 3.
- Herz, Alexander. (See Conti, Eugene, assignor.)
- Herz, Alexander, New Rochelle, N. Y. Apparatus for cooling drinking tubes. 1,725,138; Aug. 20.
- Herz Bed Company. (See Bingle, Edmund W., assignor.)
- Herz Bed Company. (See Herz, Gene, assignor.)
- Herz, Gene, assignor to Herz Bed Company, Chicago, Ill. Day bed and the like. 1,721,559; July 23.
- Herz, Philipp, Windsheim, Germany. Process and device for the manufacture of seat air cushions. 1,729,596; Sept. 24.
- Herz, Richard, Frankfurt-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Condensation products from reaction products of sulphur dichloride and primary arylamines. 1,699,432; Jan. 15.



- Herz, Richard, and F. Schulte, Frankfort-on-the-Main, assignors to General Aniline Works, Inc., New York, N. Y. Nuclear substitution product of 1-aminonaphthalene-8-carboxylic acid in the open or anhydride form and making same. 1,728,995; Sept. 24.
- Herz, Richard, F. Schulte, Frankfort-on-the-Main, and W. Zerweck, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Converting cyanaphthalene-sulfonic acids. 1,721,882; July 23.
- Herz, Richard, Frankfort-on-the-Main, and W. Zerweck, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Halogenated dinaphthyl-dicarboxylic acids. 1,723,167; Aug. 6.
- Herzberg, Max, assignor to Excella Pattern Company, Inc., New York, N. Y. Making reproducing plates. 1,724,875; Aug. 13.
- Herzberg, Wilhelm, Berlin, and G. Hoppe, Berlin-Treptow, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. New thiazole derivatives of 1,4 naphthoquinone. 1,726,265; Aug. 27.
- Herzberg, Wilhelm, Berlin-Wilmersdorf, and H. Ohlen-dorf, Berlin-Friedenau, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyes from hydroxy-naphtho-diazine derivatives. 1,705,974; Mar. 19.
- Herzer, John H., Los Angeles, Calif. Combination bumper, container, tent, and car cover. 1,719,055; July 2.
- Herzick, John, St. Clairsville, Ohio. Nonrefillable bottle. 1,721,662; July 23.
- Herzig, Arthur J. (See Marco, B. B., and Herzig.)
- Herzlich, Samuel L., Brooklyn, N. Y. Automatic anti-freeze system for auto radiators. 1,705,729; Mar. 19.
- Herzog, Carl J. S., New York, N. Y. Ampullar container and applicator. 1,699,965; Jan. 22.
- Herzog, Edgar R., Syracuse, N. Y. Cross member for tire chains. 1,725,352; Aug. 20.
- Herzog, Joseph L., New Rochelle, and L. Hirsch, New York, N. Y. Finger ring or similar article. Des. 77,358; Jan. 1.
- Herzog, Joseph L., New Rochelle, and L. Hirsch, New York, N. Y. Finger ring or similar article. Des. 77,359; Jan. 1.
- Heskamp, Paul, Duisburg-Ruhrort, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Working blast furnaces with the aid of furnace dust. 1,713,435; May 14.
- Heskamp, Paul, Duisburg-Ruhrort, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Working blast furnaces. 1,713,436; May 14.
- Hess-Bright Manufacturing Company, The. (See Brunner, Harold E., assignor.)
- Hess, Edgar H., Endicott, N. Y. Shoe and cushioning member or middle sole therefor. 1,733,733; Oct. 29.
- Hess, Edward B., assignor of forty-nine per cent to J. D. Rodgers, Orlando, Fla. Automobile parking device. 1,709,400; Apr. 16.
- Hess, Elam G., Mannheim, Pa., assignor to Pecano Manufacturing Company. Making a food product from nut kernels. 1,725,801; Aug. 27.
- Hess, Emil E., assignor to The Sayers & Scovill Company, Cincinnati, Ohio. Body of a motor-driven funeral car. Des. 77,550; Jan. 22.
- Hess, Emil G., Toronto, Ontario, Canada. Radiator shield. 1,702,693; Feb. 19.
- Hess, Ezra, Chicago, Ill. Making casts of feet. 1,700,844; Feb. 5.
- Hess, Fritz. (See Hoopes, P. R., and Hess.)
- Hess, Fritz, Hofheim-on-the-Taunus, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs. 1,726,266; Aug. 27.
- Hess, Joseph J., assignor to International Printing Company, Indianapolis, Ind. Display carton. 1,735,682; Nov. 12.
- Hess, Raymond W. (See Moses, F. G., Hess, and Perkins.)
- Hess, Raymond W., and J. M. F. Leaper, Buffalo, assignors to The Barrett Company, New York, N. Y. Making mercaptans. 1,729,615; Oct. 1.
- Hess, Richard, Burkhardswalde, near Pirna, Germany. Grass mower. 1,701,567; Feb. 12.
- Hess, Simon B., New York, N. Y. Burglar-alarm trap. 1,699,663; Jan. 22.
- Hess, Wilhelm, assignor to the firm Emil Haefely & Cie. A. G., Basel, Switzerland. High-tension transformer. 1,699,292; Jan. 15.
- Hesse, Arthur E., St. Paul, Minn. Vapor condensing and recovery device. 1,738,773; Dec. 10.
- Hesse, George, assignor to Electric Sign Flasher Corporation, Los Angeles, Calif. Automatic circuit interrupter. 1,704,288; Mar. 5.
- Hesse Manufacturing Company, The. (See Seymour, William A., assignor.)
- Hessel, Edward L., assignor to Little Giant Manufacturing Co., Minneapolis, Minn. Radiator hanger. 1,736,596; Nov. 19.
- Hessenbrush, Hermann M., Rosemont, assignor of one-half to E. L. Davis, Philadelphia, Pa. Bending apparatus. 1,740,091; Dec. 17.
- Hessenland, Max. (See Wagner, H., Brune, Hessenland, Hoffa, Müller, and Heyna.)
- Hesser, Theodore M. (See Fenhagen, F. D., Rhodes, and Hesser.)
- Hessle, Eric T., Lemont, Ill. Continuous process for the refining of oils. 1,696,913; Jan. 1.
- Hessle, Eric T., Lemont, Ill. Refining oil. 1,702,540; Feb. 19.
- Hester, James E., Pittsburgh, Pa. Clothesline support. 1,738,704; Dec. 10.
- Hester, Levi C., Jacksonville, Fla. Power lift for tractor plows. 1,717,209; June 11.
- Hester, Levi C., Jacksonville, Fla. Agricultural machine. 1,731,925; Oct. 15.
- Heston, Lorenzo R., Fairfield, Iowa. Home craftshop outfit. 1,726,702; Sept. 3.
- Hetherington, Benjamin, Fall River, Mass. Harness-actuating attachment for looms or the like. 1,715,363; June 4.
- Hetherington, Harry C., Washington, D. C., and H. J. Krase, Clarendon, Va., assignors to A. B. Lamb, trustee. Production of urea. 1,730,208; Oct. 1.
- Hetlesater, Olaf, assignor to Full Expansion Motors Corporation, Seattle, Wash. Internal-combustion engine. 1,725,139; Aug. 20.
- Hetsch, Franz K., Mannheim, Germany. Burner for furnaces. 1,702,298; Feb. 19.
- Hettrick Manufacturing Company, The. (See Smith, Isidore P., assignor.)
- Hetzer, Josef. (See Günther, F., and Hetzer.)
- Heuck, Claus. (See Luther, M., and Heuck.)
- Heuck, Claus, Ludwigshafen-on-the-Rhine, and P. Esselmann, Premnitz, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Reduction of the swelling capacity of hydrated cellulose and the resulting product. 1,737,760; Dec. 3.
- Heuer, Henry, Cobb, Wis. Harvester. 1,712,616; May 14.
- Heuer, Russell P. (See Lukens, H. S., and Heuer.)
- Heuer, Russell P., Philadelphia, Pa., assignor to General Refractories Company. Brick and cement for furnace use. 1,714,506; May 28.
- Heugas, Henri A., Paris, France. Jewelry clasp. 1,728,905; Sept. 17.
- Heugas, Henri A., Paris, France. Wrist-watch fastener. 1,738,579; Dec. 10.
- Heumader, Christian, St. Joseph, Mo. Automobile tourist bed. 1,722,916; July 30.
- Heumader, Christian, St. Joseph, Mo. Automobile screen. 1,722,917; July 30.
- Heumann, Albert, Elberfeld, Germany. Fruit and like peeler. 1,730,888; Oct. 8.
- Heumann, Emil, Itzehoe, Holstein, Germany. Ditch digging and cleaning machine. 1,721,392; July 16.
- Heurich, Adam L., and J. G., and A. C. Stapel, Pittsburgh, Pa. Internal-combustion engine. 1,726,299; Aug. 27.
- Heurich, Joseph G. (See Heurich, Adam L. and J. G., and Stapel.)
- Heuse, Erwin, New York, N. Y. Theatrical appliance. 1,723,168; Aug. 6.
- Heuser, Charles J., Paterson, N. J. Door latch. 1,726,666; Sept. 3.
- Heuser, Herman, Evanston, assignor to United States Process Corporation, Chicago, Ill. Manufacture of beverages. 1,717,685; June 18.
- Heuser, Herman, Chicago, Ill., assignor to United States Process Corporation. Manufacture of fermented beverages of reduced alcohol content. 1,720,329; July 9.
- Heuser, Herman, Evanston, Ill., assignor to United States Process Corporation. Cereal beverage and liquid. 1,724,021; Aug. 13.
- Heuser, Ralph V., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Making diphenylguanidine. 1,727,060; Sept. 3.
- Heusner, Karl, and M. Simon, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Producing azo dyestuffs. 1,725,076; Aug. 20.
- Heusser, Wilfred, Salt Lake City, Utah. Variable-weight balance. 1,702,006; Feb. 12.
- Heusser, Wilfrid, Salt Lake City, Utah. Quick-acting pressure-seated cap for receptacles. 1,720,789; July 16.
- Heusser, Wilfred, Salt Lake City, Utah. Duplex electromagnetic vibratory unit. 1,726,394; Aug. 27.
- Heussler, Josef, and A. Braune, Vienna, Austria. Gas cooker. 1,725,863; Aug. 27.
- Heuze, Charles, Auvclais, Belgium. Apparatus for polishing glass. 1,716,819; June 11.
- Heuze, Charles, Auvclais, Belgium. Guide rail for tables of apparatus for grinding, smoothing, and polishing plate or sheet glass and other similar materials. 1,734,036; Nov. 5.
- Heuze, Charles, Auvclais, Belgium. Grinding table. 1,741,462; Dec. 31.
- Heuze, Charles, Auvclais, Belgium, assignor to The American Bichroux Company. Process and apparatus for the manufacture of glass. 1,732,889; Oct. 22.
- Hevern, Earl R., Oxford, Iowa. Embalmer's trocar. 1,740,174; Dec. 17.
- Hevi Duty Electric Company. (See Hansen, Fred A., assignor.)
- Hevi Duty Electric Company. (See Koenig, Leon C., assignor.)
- Hewel, Frank B., Pittsburgh, Pa. Attachment for portable drills. 1,701,673; Feb. 12.
- Hewes, Charles K. (See Goddard, W. R., and Hewes.)
- Hewes, James A., Melrose, assignor to Hewes & Potter, Incorporated, Boston, Mass. Man's bow necktie. 1,729,742; Oct. 1.
- Hewes, James E., North Chatham, N. Y. Tunnel. 1,697,598; Jan. 1.



- Hewes & Potter, Incorporated. (See Hewes, James A., assignor.)
- Hewetson, Henry H., Newton Center, assignor to Beacon Oil Company, Everett, Mass. Soaking-drum apparatus. 1,707,520; Apr. 2.
- Hewitt, Daniel, Fort Worth, Tex. Highway signal. 1,719,012; July 2.
- Hewitt, Edward R., Midvale, N. J. Apparatus for centrifugal purifying of metals and the like. 1,709,939; Apr. 23.
- Hewitt, Edward R., Midvale, N. J., assignor to International Motor Company, New York, N. Y. Oil filter. 1,720,475; July 9.
- Hewitt, Edward R., Midvale, N. J., assignor to International Motor Company, New York, N. Y. Fuel pump for solid-injection otto-cycle engines. 1,726,150; Aug. 27.
- Hewitt, Edward R., Midvale, N. J., assignor to International Motor Company, New York, N. Y. Fuel injector. 1,737,155; Nov. 26.
- Hewitt, Edward R., Midvale, N. J., assignor to International Motor Company, New York, N. Y. Venturi combustion chamber for internal-combustion engines. 1,741,417; Dec. 31.
- Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor control device. 1,711,641; May 7.
- Hewitt, Frank W., Arlington, Mass. Electric heating pad and fabric. 1,703,005; Feb. 19.
- Hewitt, John F. (See Yerby, G. S., and Hewitt.)
- Hewitt, William R., New York, N. Y. Railroad tie. 1,700,263; Jan. 29.
- Hewitt, William R., New York, N. Y. Brake-actuating mechanism. 1,702,777; Feb. 19.
- Hewlett, Clarence W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,713,133; Oct. 8.
- Hewlett, Edward M., and W. W. Willard, Schenectady, N. Y., assignors to General Electric Company. Reproducing position. 1,708,884; Apr. 9.
- Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Circuit interrupter. 1,713,229; May 14.
- Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. High-voltage circuit interrupter. 1,717,210; June 11.
- Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,717,211; June 11.
- Hewson, Arthur, Grimsby, Ontario, Canada. Basket. 1,706,062; Mar. 19.
- Hewson, Eddie L. W., Buffalo, N. Y. Artificial denture or plate. 1,721,955; July 23.
- Hewson, Edward M., sr., Mechanicville, N. Y. Rotary needle holder for phonograph. 1,721,781; July 23.
- Hexcel Radiator Company. (See Opitz, Fred M., assignor.)
- Hexdall, Andrew, Morris, Ill. Sheet-metal-cutter attachment for electric motors. 1,737,884; Dec. 3.
- Hey, George W., Great Falls, Mont. Attachment for violins. 1,711,386; Apr. 30.
- Heybeck, Harry H., New York, N. Y. Incinerator hopper and seal. 1,707,011; Mar. 26.
- Heybeck, Harry H., New York, N. Y. Refuse-incinerator construction and hopper door therefor. 1,733,801; Oct. 29.
- Heyboer, Adrian, Grand Rapids, Mich. Wafer plate. 1,740,649; Dec. 24.
- Heyden Chemical Corporation. (See Beinroth, Hugo, assignor.)
- Heydt, Edward F., Nontclair, N. J., assignor to Petroleum Derivatives Company. Cleaning composition containing isopropyl alcohol. 1,723,169; Aug. 6.
- Heyer, Alfred J., assignor, by mesne assignments, to Hussmann-Ligonier Company, St. Louis, Mo. Counter refrigerator. 1,741,568; Dec. 31.
- Heyer, Benjamin F. W., Montclair, N. J. Electric switch. 1,729,385; Sept. 24.
- Heyer Duplicator Co. Inc., The. (See Kurth, William H., assignor.)
- Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 1,705,363; Mar. 12.
- Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 1,705,364; Mar. 12.
- Heyl, George E., Westminster, London, England. Manufacture of nonsplintering glass sheets. 1,725,454; Aug. 20.
- Heyl & Patterson, Incorporated. (See Brown, Raymond E., assignor.)
- Heyl & Patterson, Incorporated. (See Enard, Hans, assignor.)
- Heyl & Patterson, Inc. (See Robb, Lewis J., assignor.)
- Heyman, Arthur W., Northampton, Pa. Conveying and measuring apparatus. 1,706,292; Mar. 19.
- Heyman, Benjamin, Baltimore, Md., assignor to Anchor Post Fence Company, Jersey City, N. J. Gate lock.
- Heyman, Joseph J., assignor to Milano Furniture Company, Inc., Chicago, Ill. Coffee table. 1,738,429; Dec. 3.
- Heyman, Marcus A., New York, N. Y. Ornamental shoe. 1,730,768; Oct. 8.
- Heyman, Marcus A., New York, N. Y. Hair-net package. 1,736,313; Nov. 19.
- Heyman, Oscar, New York, N. Y. Linked jewelry and making it. 1,734,625; Nov. 5.
- Heymann, Edward, Boston, Mass. Brake mechanism. 1,741,365; Dec. 31.
- Heymann, Paul, Paris, France. Perfume set. 1,711,531; May 7.
- Heyn, Edmund C., Baltimore, Md., assignor to The B. V. D. Company Inc., New York, N. Y. Garment. 1,718,464; June 25.
- Heyn, Henry M., Detroit, Mich., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. 1,721,484; July 16.
- Heyn, Myron, Breslau, assignor, by mesne assignments, to the firm Schering-Kahlbaum A. G., Berlin, Germany. Diguandine. 1,737,192; Nov. 26.
- Heyn, Werner, Hamburg, Germany. Self-acting siphon. 1,727,828; Sept. 10.
- Heyna, Hans. (See Hoffa, E., and Heyna.)
- Heyna, Hans. (See Hoffa, E. Heyna, and Müller.)
- Heyna, Hans. (See Hoffa, E., Heyna, Thoma, and Hirschel.)
- Heyna, Hans. (See Hoffa, E., Thoma, and Heyna.)
- Heyna, Hans. (See Steiger, N., Hoffa, and Heyna.)
- Heyna, Hans. (See Wagner, H., Brune, Hessenland, Hoffa, Müller, and Heyna.)
- Heynacher, Walter. (See Mackenzie, John, assignor.)
- Heynis, Dirk, Hazerswoude, Rijndijk, Netherlands. Device for preventing the boiling over of liquids which produce foam when boiling. 1,709,529; Apr. 16.
- Heys, George H., et al., executors. (See Heys, J. J., and Braden.)
- Heys, John J., deceased, by L. A. and G. H. Heys, executors, Lynn, and A. R. Braden, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Pressing form and making it. 1,734,294; Nov. 5.
- Heys, Lucy A., et al., executor. (See Heys, J. J., and Braden.)
- Heywood, Charles F., assignor to Sky Specialties Corporation, Detroit, Mich. Internal-combustion engine. 1,737,845; Dec. 3.
- Heywood-Wakefield Company. (See Bolin, Simon, assignor.)
- Heywood-Wakefield Company. (See Feinberg, Justin G., assignor.)
- Heywood-Wakefield Company. (See Goodspeed, George D., assignor.)
- Heywood-Wakefield Company. (See Larsen, Lewis, assignor.)
- Heywood-Wakefield Company. (See Levine, David I., assignor.)
- Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
- Heywood-Wakefield Company. (See Riley, Francis B., assignor.)
- Heywood-Wakefield Company. (See Stinson, Richard, assignor.)
- Hiatt, Edward I., Modesto, Calif. Lever-operating attachment for drawn implements. 1,736,197; Nov. 19.
- Hiatt, Enos R., Winchester, Ind. Detachable handle. 1,697,241; Jan. 1.
- Hiatt, Roscoe H., Greensfork, Ind. Folding stand. 1,722,521; July 30.
- Hibacsko, George, Schenectady, N. Y., assignor to General Electric Company. Sound-reproducing device. 1,733,013; Oct. 22.
- Hibbard Cabinets, Inc. (See Hibbard, Harry W., assignor.)
- Hibbard, Charles T., assignor, by mesne assignments, to Electric Machinery Mfg. Company, Minneapolis, Minn. Starting synchronous motors. Re17,180; Jan. 1.
- Hibbard, Charles T., assignor to Electric Machinery Mfg. Company, Minneapolis, Minn. Starting switch for synchronous motors. 1,731,462; Oct. 15.
- Hibbard, Harry L. (See Fleet, A. H., and Hibbard.)
- Hibbard, Harry W., Lyndhurst, assignor, by mesne assignments, to Hibbard Cabinets, Inc., Cleveland, Ohio. Bottled-beverage-cooling cabinet. 1,716,522; June 11.
- Hibbard, Harry W., Lyndhurst, assignor, by mesne assignments, to Hibbard Cabinets, Inc., Cleveland, Ohio. Upright beverage-cooling cabinet. 1,731,777; Oct. 15.
- Hibbard, Lloyd J. (See Lamme, B. G., and Hibbard.)
- Hibbard, Merrill, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Cable sheave. 1,714,221; May 21.
- Hibbard, Thomas L., Puteaux, France. Automobile engine bonnet. Des. 79,428; Sept. 17.
- Hibbard, Thomas L., Puteaux, France. Automobile engine bonnet. Des. 79,429; Sept. 17.
- Hibbard, Thomas L., Neuilly-sur-Seine, France. Screen for internal-combustion engines. 1,713,337; May 14.
- Hibben, Frederick M., Lakewood, Ohio. Heating unit. 1,698,095; Jan. 8.
- Hibbets, Charles M., Claude, Tex. Gear-shift lever. 1,719,368; July 2.
- Hibbets, Charles M., Claude, Tex. Operating mechanism for transmission gears. 1,719,369; July 2.
- Hicken, Elmer E., Collingswood, N. J. Locomotive tender. 1,728,060; Sept. 10.
- Hicken, Elmer E., Collingswood, N. J. Tender. 1,731,101; Oct. 8.
- Hicken, Elmer E., Collingswood, N. J. Tender. 1,731,102; Oct. 8.
- Hicken, Elmer E., Collingswood, N. J. Tender. 1,733,014; Oct. 22.
- Hicken, Elmer E., Collingswood, N. J. Locomotive tender. 1,733,015; Oct. 22.
- Hicken, Elmer E., Collingswood, N. J. Locomotive tender. 1,733,016; Oct. 22.



- Hicken, Elmer E., Collingswood, N. J. Tender. 1,734,808; Nov. 5.
- Hickey, Charles M., New York, N. Y. Safety razor. 1,701,462; Feb. 5.
- Hickey, John H., San Francisco, Calif. Fuse. 1,703,236; Feb. 26.
- Hickey, John H., San Francisco, Calif. Electric fuse. 1,724,022; Aug. 13.
- Hickey, John H., San Francisco, Calif. Renewable-fuse construction. 1,729,939; Oct. 1.
- Hickey, John P., assignor, by mesne assignments, to J. M. Crank, New York, N. Y. Building structure. 1,718,234; June 25.
- Hickish, Robert S. (See Titmas, R. W., and Hickish.)
- Hickler, Walter R. (See Glidden, A. A., and Hickler.)
- Hickling, William G., Johnstown, Pa. Relay system. 1,713,698; May 21.
- Hickman, Charles D., Philadelphia, Pa. Inset valve for radiators. 1,738,052; Dec. 3.
- Hickman, Charles W., Denver, Colo. Fly escape. 1,701,498; Feb. 12.
- Hickman, Edward, Phoenix, Ariz. Window screen for automobiles. 1,701,848; Feb. 12.
- Hickman, Joseph T., Cottage City, Md. Window weather-proofing device and screen hanger. 1,738,183; Dec. 3.
- Hickman, Kenneth C., assignor to Eastman Kodak Company, Rochester, N. Y. Film-inspection means. 1,716,441; June 11.
- Hickman, Kenneth C. D. (See Fritts, E. C., and Hickman.)
- Hickman, Kenneth C. D., assignor to Eastman Kodak Company, Rochester, N. Y. Process and apparatus for regulating chemical reactions. 1,739,230; Dec. 10.
- Hickman, Millard R. (See Westling, L. L., and Hickman.)
- Hickman, Sanford W. (See Gordon, W. A., jr., and Hickman.)
- Hickok, Arthur S. (See Myers, Hubert A., assignor.)
- Hickok, Frank, Carthage, Mo. Thermostatic device for incubators and other apparatus. 1,702,209; Feb. 12.
- Hickok, George F., San Francisco, Calif. Choker hook. 1,741,463; Dec. 31.
- Hickok, Leon C., Grand Rapids, Mich. Dentist's bite-check apparatus. 1,738,143; Dec. 3.
- Hickok Manufacturing Company. (See Eichner, Robert F., assignor.)
- Hickok Manufacturing Company. (See Heberling, John, assignor.)
- Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
- Hickok Manufacturing Company. (See Ritter Curt, assignor.)
- Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)
- Hickok Manufacturing Company. (See Tallman, Wilson J., assignor.)
- Hickok Manufacturing Company. (See Vaisey, Harold C., assignor.)
- Hickok Manufacturing Company. (See Vaisur, Harold C., assignor.)
- Hickok, Robert D., Cleveland, Ohio. Apparatus for testing vacuum tubes. 1,718,557; June 25.
- Hickok, W. O., Manufacturing Company, The. (See Broadmeyer, Albert, assignor.)
- Hicks, George F. H., Aurora, Ill. Clutch-pedal control. 1,720,075; July 9.
- Hicks, Harold A., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Airplane landing light. 1,724,482; Aug. 13.
- Hicks, Irving C., Topeka, Kans., assignor to The Timken Roller Bearing Company, Canton, Ohio. Car truck. 1,740,511; Dec. 24.
- Hicks, John N., and C. Severns, Los Angeles, Calif. Elevator. 1,741,055; Dec. 24.
- Hicks, Patrick, North Cambridge, Mass. Fastening device. 1,742,141; Dec. 31.
- Hicks, Robert J. F., Rockaway Beach, N. Y. Hand-drill attachment. 1,727,061; Sept. 3.
- Hicks, Thomas N., Perth, Ontario, Canada. Electric lantern. 1,698,912; Jan. 15.
- Hicks, Thomas W., Minneapolis, Minn. Tiller. 1,706,573; Mar. 26.
- Hicks, Thomas W., assignor to Rotary Carton Machine Company, Minneapolis, Minn. Printing machine. 1,698,544; Jan. 8.
- Hicks, Thomas W., assignor to Scientific Farming Machinery Company, Minneapolis, Minn. Apparatus for preparing the soil for stimulated crop growth. 1,725,190; Aug. 20.
- Hicks, William D., Inglewood, Calif. Plaster lath. 1,699,967; Jan. 22.
- Hicks, William D., Inglewood, assignor, by mesne assignments, to Master Wire Lath Company, Los Angeles, Calif. Lath. 1,730,935; Oct. 8.
- Hicks, William W. (See Kercher, A. J., and Hicks.)
- Hicks, William W., San Francisco, Calif. Electric air heater. Des. 77,771; Feb. 19.
- Hicks, William W., San Francisco, Calif. Electrical heating element. 1,699,737; Jan. 22.
- Hicks, William W., San Francisco, Calif. Electric foot warmer. 1,704,127; Mar. 5.
- Hicks, William W., assignor to Wesix National Company, San Francisco, Calif. Electrical air heater. 1,724,585; Aug. 13.
- Hida, Saburo. (See Muto T., and Hida.)
- Hieber, George B., Marysville, Mont. Wardrobe tray. 1,711,784; May 7.
- Hieber, George E. (See O'Donnell, P. L., and Hieber.)
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Pocket corkscrew. 1,701,950; Feb. 12.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Snap catch for triple-frame bags. 1,703,425; Feb. 26.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag-frame corner. 1,717,031; June 11.
- Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Pan holder and adjustable clamp. 1,728,285; Sept. 17.
- Hiering, William C., Newark, assignor to J. E. Mergott Co., Newark, N. J. Bag-fastener clasp. 1,730,459; Oct. 8.
- Hiestor, Norman T., Dayton, Ohio. Air filter. 1,737,587; Dec. 3.
- Hietzger, Georg, Krems, Austria. Machine for hermetically closing preserve jars. 1,709,789; Apr. 16.
- Hifner, Ernest J., Lexington, Ky. Automatic choke actuator. 1,723,936; Aug. 6.
- Higbee, Ray P., Edgewood, Pa. Transformer. 1,716,553; June 11.
- Higbee, Ray P., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,723,759; Sept. 17.
- Higbee, Ray P., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,728,760; Sept. 17.
- Higbee, Ray P., Philadelphia, Pa., assignor to Atlantic Elevator Company, Inc. Elevator suspension. 1,730,974; Oct. 8.
- Higby, Beecher P., Youngstown, Ohio. Hose nozzle. 1,733,262; Oct. 29.
- Higby, Beecher P., and W. D. Pothour, Youngstown, Ohio; said Pothour assignor to said Higby. Funnel. 1,733,261; Oct. 29.
- Higby, William E., Monument, Colo. Power system for airplanes, etc. 1,704,895; Mar. 12.
- Higdon, James J., Brooksville, Fla. Tamping machine. 1,723,856; Aug. 6.
- Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Metal window screen. 1,733,877; Oct. 29.
- Higgin Manufacturing Company. (See Higgin, Henry, assignor.)
- Higgin Manufacturing Company, The. (See Traut, Clifford, assignor.)
- Higgins, Campbell P., Roselle, N. J., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Heating apparatus. 1,699,064; Jan. 15.
- Higgins, Charles S., and G. Rome, Mission, Tex. Garden implement. 1,717,975; June 18.
- Higgins, Clifford B. and H. A., and J. Tyler, Detroit, Mich. Apparatus for cleaning metal. 1,714,668; May 28.
- Higgins, Clyde R. (See Deuel, L. J., and Higgins.)
- Higgins, Edward L., Sidcup, England. Permutation lock. 1,734,579; Nov. 5.
- Higgins, Edward W. (See James, Thomas J., assignor.)
- Higgins, George D., Los Angeles, Calif. Flying machine. 1,735,115; Nov. 12.
- Higgins, George H., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Built-up sectional forging and making same. 1,723,036; Aug. 6.
- Higgins, Harry A. (See Higgins, Clifford B. and H. A., and Tyler.)
- Higgins, Harry A., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. 1,739,671; Dec. 17.
- Higgins, Harry A., assignor to Long Manufacturing Company, Detroit, Mich. Fin construction. 1,739,672; Dec. 17.
- Higgins, Henry B., jr., Denver, Colo. Supplementary fuel-feeding device for internal-combustion engines. 1,704,832; Mar. 12.
- Higgins, John A., Brooklyn, N. Y. Jacking apparatus for trailers. 1,715,236; May 28.
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Manufacture of electric incandescent lamps and the like. 1,706,882; Mar. 26.
- Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Mounting coiled filaments. 1,733,802; Oct. 29.
- Higgins, John T., Portland, Oreg. Reed holder. 1,706,063; Mar. 19.
- Higgins, John W. (See Bauman, H. A., and Higgins.)
- Higgins, John W., Medford, Mass. Guide rail for highways. 1,726,267; Aug. 27.
- Higgins, Nicholas F., Chicago, Ill. Cotton picker. 1,711,316; Apr. 30.
- Higgins, Robert E., Blunt, S. Dak. Tool. 1,708,760; Apr. 9.
- Higginson, Conan D. (See Proctor, George A., assignor.)
- Higginson, Conan D., Los Angeles, Calif. Transfer and method of protecting and decorating surfaces. 1,736,597; Nov. 19.
- High, Agnes. (See Wright, Virgil, assignor.)
- High, James P., Wichita, Kans. Clothes drier. 1,730,936; Oct. 8.
- High, John M., jr., New York, N. Y. Vibrating motor. 1,718,044; June 18.
- High, John M., jr., New York, N. Y. Actuating device for loud-speakers. 1,738,370; Dec. 3.
- High, Jurjen S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Sound-producing device. 1,702,437; Feb. 19.



- High, Jurjen S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reproducing device. 1,702,438; Feb. 19.
- High, Jurjen S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Loudspeaker. 1,715,705; June 4.
- High, Matthew A., Anderson, Ind. Steaming and pressing machine. 1,732,890; Oct. 22.
- Highbee, Ray P., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cable equalizer for elevators. 1,700,587; Jan. 29.
- Highfall, Noel D., Oklahoma City, Okla. Power-plant attachment for toy electric locomotives. 1,727,704; Sept. 10.
- Highland, Alexander, et al. (See Lowe, Earl R., assignor.)
- Highsmith, William J., Durham, N. C. Dish. Des. 78,692; June 4.
- Hight, Thomas G., Hukerunui, Auckland, New Zealand. Music-leaf or book-page holder and turner. 1,701,109; Feb. 5.
- Highway Service, Incorporated. (See Nickerson, Alma N., assignor.)
- Highway Steel Products Co. (See Robertson, Robert R., assignor.)
- Highway Trailer Company. (See Clement, Charles G., assignor.)
- Highway Trailer Company. (See Erdahl, Nicholas M., assignor.)
- Highway Trailer Company. (See Nolen, T., and Perine, assignors.)
- Highway Trailer Company. (See Williams, Leroy E., assignor.)
- Higinbotham, Arthur O., assignor of one-half to W. A. Weigels, Denver, Colo. Supplying oxygen to combustion chambers. 1,711,943; May 7.
- Higinbotham, Arthur O., assignor of one-half to W. A. Weigels, Denver, Colo. Apparatus for supplying oxygen to combustion chambers. 1,711,944; May 7.
- Higley, Frank R., Cleveland Heights, assignor of one-sixth to C. O. Chandler, Cleveland, one-sixth to A. L. Cochran, Cleveland Heights, and one-third to W. A. Cleveland, East Cleveland, Ohio. Fastening means. 1,721,626; July 23.
- Hilbert, Edgar N., Spokane, Wash. Recovering lubricants. 1,707,633; Apr. 2.
- Hild, Frederic W., Los Angeles, Calif. Control device. 1,709,132; Apr. 16.
- Hild, Frederic W., Los Angeles, Calif. Transmission device. 1,725,077; Aug. 20.
- Hild, Frederic W., Los Angeles, Calif. Combined cathode and oil reservoir. 1,729,441; Sept. 24.
- Hild, Frederic W., Los Angeles, Calif. Spaced-leg reaming disk bit. 1,733,372; Oct. 29.
- Hild, Mark W. (See Thurman, W. R., and Hild.)
- Hildahl, Mark, Seattle, Wash. Doorknob burglar alarm. 1,708,138; Apr. 9.
- Hildebrand, Henry, New York, N. Y. Edge roll for application to furniture. 1,719,110; July 2.
- Hildebrand, Lee E., Cliftondale, Mass., assignor to General Electric Company. Calibrating instruments. 1,724,837; Aug. 13.
- Hildebrand, Wilhelm, Lichterfelde, Berlin, Germany. Fluid-pressure brake apparatus for railway vehicles. 1,714,669; May 28.
- Hildebrandt, Edward, Tacoma, Wash. Can. 1,734,378; Nov. 5.
- Hildebrandt, Johann, Wallisellen, assignor to Maschinenfabrik Oerlikon, Oerlikon, Switzerland. Stepped-pulley drive, particularly for ring spinning machines. 1,731,246; Oct. 15.
- Hildebrandt, Johann, Wallisellen, assignor to the firm Maschinenfabrik Oerlikon, Oerlikon near Zurich, Switzerland. Idler pulley drive particularly for ring spinning and doubling frames. 1,739,550; Dec. 17.
- Hildebrandt, William, Washington, D. C., assignor to Gasoline Corporation, New York, N. Y. Method and apparatus for condensing vapors. 1,712,825; May 14.
- Hilditch, Thomas P., Grappenhall, and H. J. Wheaton, Lower Walton, near Warrington, England, assignors, by mesne assignments, to American Doucil Company, Philadelphia, Pa. Manufacture and production of base-exchanging compounds. 1,717,777; June 18.
- Hilditch, Thomas P., Grappenhall, and H. J. Wheaton, Lower Walton, near Warrington, England, assignors, by mesne assignments, to H. N. Holmes, Oberlin, Ohio. Production of absorbent material. 1,739,305; Dec. 10.
- Hildorf, Walter G., assignor to Reo Motor Car Company, Lansing, Mich. Hardening articles. 1,740,347; Dec. 17.
- Hildreth, William O., assignor to The Lamson Company, Syracuse, N. Y. Refrigerating apparatus. 1,730,145; Oct. 1.
- Hileman, Ernest J., Cleveland, Ohio, assignor of one-half to A. D. Valliquette, Detroit, Mich. Grating machine. 1,714,867; May 21.
- Hileman, Glenn L., Denver, Colo. Gas burner. 1,731,306; Oct. 15.
- Hiler, Edward E., Bloomfield, N. J. Audio frequency amplifier circuit. 1,715,501; June 4.
- Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
- Hilger, George, Chicago, Ill. Refrigeration system. 1,705,764; Mar. 19.
- Hilger, George, Chicago, Ill. Ventilating system. 1,705,765; Mar. 19.
- Hilger, George, Chicago, Ill. Valve. 1,706,230; Mar. 19.
- Hilger, George, Chicago, Ill. Fluid compressor. 1,718,558; June 25.
- Hill, C. V., and Co. (See Hill, Clement V., assignor.)
- Hill, Charles, Springfield, Colo. Adjustable revolving moldboard. 1,736,442; Nov. 19.
- Hill, Charles B., Glencoe, and M. H. Givens, Evanston, assignors to Northwestern Yeast Company, Chicago, Ill. Yeast-saving composition in bread making. 1,702,259; Feb. 19.
- Hill, Charles L., San Francisco, Calif. Display cabinet. Des. 77,959; Mar. 12.
- Hill, Clement V., Trenton, N. J. Refrigerator display case. 1,698,592; Jan. 8.
- Hill, Clement V., assignor to C. V. Hill & Co., Inc., Trenton, N. J. Display case. 1,732,472; Oct. 22.
- Hill, Clyde E., Denver, Colo. Spray nozzle. Re17,321; June 4.
- Hill & Cutler Co. (See Chapman, Laurence D., assignor.)
- Hill, Edgar F., Springfield, Mass. Jointed figure toy. 1,709,432; Apr. 16.
- Hill, Edward B., Chicago, Ill. Nursing-bottle holder. 1,741,937; Dec. 31.
- Hill, Edward E., Woodhaven, and F. V. Magalhaes, Brooklyn, assignors, by mesne assignments, to T. E. Murray, jr., Brooklyn, N. Y. Switch-box cover and attachment. 1,739,142; Dec. 10.
- Hill, Edward M., Brookline, assignor to Whiting-Adams Company, Boston, Mass. Military brush. Des. 78,752; June 18.
- Hill, Edward M., Brookline, assignor to Whiting-Adams Company, Boston, Mass. Military brush. Des. 78,753; June 18.
- Hill, Edward P., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,736,443; Nov. 19.
- Hill, Elijah R., New Albany, Miss. Flush valve. 1,699,890; Jan. 22.
- Hill, Evelyn L., Louisville, Ky. Handkerchief-display rack. Des. 78,574; May 21.
- Hill, Frank A., Kenosha, Wis., assignor of one-half to E. C. Fritz, Dixon, Ill. Carton holder and delivery mechanism for dispensing machines. 1,722,048; July 23.
- Hill, Frank F., Embarrass, Minn. Disk-harrow sharpener. 1,738,003; Dec. 3.
- Hill, Frederick H., assignor to Monogram Shop, Los Angeles, Calif. Ring. Des. 78,754; June 18.
- Hill, Guy, and E. P. Turner, Washington, D. C. Lampshade support. 1,699,664; Jan. 22.
- Hill, Harold. (See Lever, J., and Hill.)
- Hill, Harold S., Miami, Fla. Combined window awning and shutter. 1,740,593; Dec. 24.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Multifocal lens. 1,735,758; Nov. 12.
- Hill, Harry W., and R. D. Wheeler, assignors to American Optical Company, Southbridge, Mass. Multifocal ophthalmic lens. 1,731,419; Oct. 15.
- Hill, Henry, Halifax, Nova Scotia, Canada. Extensible stepladder. 1,712,435; May 7.
- Hill, Herbert M., Leonia, N. J. Radio receiving apparatus. 1,705,522; Mar. 19.
- Hill, Hermann, Detroit, Mich., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Shoe mounting for ironing machines. 1,741,298; Dec. 31.
- Hill, Howard G., Roanoke, Va., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Pressure-relief system. 1,725,455; Aug. 20.
- Hill, Howard G., Roanoke, Va., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Testing machine for lubricants. 1,732,811; Oct. 22.
- Hill, Hugh G., Wheeling, W. Va., assignor, by mesne assignments, to Continental Can Company, Inc. Machine for double-seaming covers on can bodies. 1,727,770; Sept. 10.
- Hill, John A., assignor of one-third to M. H. Shirley, Kansas City, Mo. Fishhook-fastening device. 1,739,590; Dec. 17.
- Hill, John J., Seattle, Wash. Aeroplane. 1,725,640; Aug. 20.
- Hill, Joseph M., assignor of one-fourth to S. F. Norton, Ogden, Utah. Smoke condenser. 1,740,594; Dec. 24.
- Hill, Julian P., Buffalo, N. Y. Illuminated sign. 1,711,945; May 7.
- Hill Laundry Equipment Co. (See Schrenkeisen, William C., assignor.)
- Hill, Laurence D. (See Wright, G. M., and Hill.)
- Hill, Lawson T., Weston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. 1,720,892; July 16.
- Hill, Leland H. (See Dann, W. M., Knotts, Thompson, and Hill.)
- Hill, Leland H. (See Oplinger, K. A., and Hill.)
- Hill, Leland H., Collingswood, N. J., assignor to Westinghouse Electric & Manufacturing Company. Tap-changing system. 1,709,667; Apr. 16.
- Hill, Leland H., Collingswood, N. J., assignor to Westinghouse Electric & Manufacturing Company. Transformer-tap-changing system. 1,709,724; Apr. 16.
- Hill, Leland H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Expansion device. 1,712,763; May 14.
- Hill, Leland H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer. 1,732,719; Oct. 22.



- Hill, Leland H., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Tap changer. 1,725,078; Aug. 20.
- Hill, Leland H., Swissvale, and W. M. Dann, Wilkensburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Transformer relief diaphragm. 1,709,723; Apr. 16.
- Hill, Leland H., Swissvale, and W. M. Dann, Wilkensburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of deoxidization. 1,720,516; July 9.
- Hill, Lewis C., Birmingham, assignor to The Murray Corporation of America, Detroit, Mich. Combined vehicle body and hood. Des. 78,207; Apr. 9.
- Hill, Lewis C., Birmingham, assignor to The Murray Corporation of America, Detroit, Mich. Automobile hood. Des. 79,138; Aug. 6.
- Hill, Lionel C., Montreal, Quebec, Canada. Process and apparatus for unloading granular materials. 1,728,968; Sept. 24.
- Hill, Maurice G. (See Bancroft, W. H., Lund, and Hill.)
- Hill, N. N. Brass Co., The. (See Hill, Norman N., assignor.)
- Hill, Netter J. (See Hunt, C. L., and Hill.)
- Hill, Nikolai, Mellen, Wis. Brush and mop holding handle. 1,735,644; Nov. 12.
- Hill, Norman N., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Toy telephone. 1,741,020; Dec. 24.
- Hill, Roger M., Washington, D. C. Auxiliary focusing device and projection apparatus. 1,709,017; Apr. 16.
- Hill, Roger M., Washington, D. C. Focusing shutter. 1,713,338; May 14.
- Hill, Roy W., trustee. (See Kessler, Louis, assignor.)
- Hill, Russell J., Greeley, Colo. Automatic fluid-controlling device. 1,699,143; Jan. 15.
- Hill, Thomas, New York, assignor to The Moto Meter Co., Inc., Long Island City, N. Y. Retaining device for radiator caps. 1,717,881; June 18.
- Hill, Thomas A., Manhattan Beach, N. Y. Drying apparatus. 1,698,545; Jan. 8.
- Hill, Van Dyke, Scarsdale, N. Y. Photographic apparatus. 1,738,053; Dec. 3.
- Hill, Van Dyke, Scarsdale, N. Y. Motion-picture film. 1,738,054; Dec. 3.
- Hill, Warren H., assignor to R. H. Beaumont Co., Philadelphia, Pa. Material-handling apparatus. 1,698,680; Jan. 8.
- Hill, William, Mount Pleasant, Mich. Dirigible headlight. 1,697,242; Jan. 1.
- Hill, William H., and D. L. Jacobson, assignors to The Koppers Company, Pittsburgh, Pa. Gas-purification solution and process. 1,700,982; Feb. 5.
- Hilland, Sverre, Brooklyn, N. Y. Cable clamp. 1,730,656; Oct. 8.
- Hillard, Frank P., Pasadena, Calif. Gas meter. 1,710,419; Apr. 23.
- Hillbom, Henrik, Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 79,811; Nov. 5.
- Hillborn-Hamburger, Inc. (See Randall, Charles E., assignor.)
- Hillborn, Herbert J. (See Schriel, A., and Hillborn.)
- Hillborn, Herbert J., assignor to Evinrude Motor Company, Milwaukee, Wis. Clamp-screw lock. 1,707,266; Apr. 2.
- Hille, Carl, Alta, Iowa. Sailboat. 1,709,219; Apr. 16.
- Hiller, Everett O., assignor to Hartford-Empire Company, Hartford, Conn. Glass-severing mechanism. 1,732,305; Oct. 22.
- Hiller, Franklin O. (See Hahn, M. L., and Hiller.)
- Hiller, John R. (See Webb, Thomas E., assignor.)
- Hiller, Stanley, Oakland, Calif. Treating materials. 1,735,395; Nov. 12.
- Hiller, Stanley, Oakland, Calif. Drying process. 1,735,397; Nov. 12.
- Hiller, Stanley, assignor to Stanley Hiller, Inc., Oakland, Calif. Distilling solid carbonaceous material. 1,735,394; Nov. 12.
- Hiller, Stanley, assignor to Stanley Hiller, Inc., Oakland, Calif. Process and apparatus for pulverizing and drying solids. 1,735,396; Nov. 12.
- Hiller, Stanley, San Jose, assignor to Stanley Hiller, Inc., Oakland, Calif. High-pressure press. 1,700,407; Jan. 29.
- Hiller, Stanley, San Jose, assignor to Stanley Hiller, Inc., San Francisco, Calif. Apparatus for cooking materials. 1,715,065; May 28.
- Hiller, Stanley, San Jose, assignor to Stanley Hiller, Inc., San Francisco, Calif. Apparatus for cooking materials. 1,735,392; Nov. 12.
- Hiller, Stanley, San Jose, assignor to Stanley Hiller, Inc., Oakland, Calif. Apparatus for treating materials. 1,735,393; Nov. 12.
- Hiller, Stanley, San Jose, Calif. assignor to Stanley Hiller, Incorporated. High-pressure press. 1,739,459; Dec. 10.
- Hiller, Stanley, Inc. (See Hiller, Stanley, assignor.)
- Hillery, John R., New York, N. Y. Tarsal support. 1,700,569; Jan. 29.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,699,144; Jan. 15.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,706,782; Mar. 26.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,724,838; Aug. 13.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,725,641; Aug. 20.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,728,829; Sept. 17.
- Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,733,017; Oct. 22.
- Hillier, Seymour W., assignor of one-half to J. Headrick, Sultan, Wash. Guy-line tightener. 1,740,982; Dec. 24.
- Hillgardt, Erich, Friedrichshafen-on-the-Bodensee, Germany, and B. Schnitzer, assignors to Goodyear-Zeppelin Corporation, Akron, Ohio. Rigid airship. 1,721,499; July 16.
- Hillin, Harry C., El Paso, Tex. Hinge. 1,701,452; Feb. 5.
- Hillis, George H. (See Shreeve, L. D., and Hillis.)
- Hillix, Foster F., assignor, by mesne assignments, to White Sewing Machine Corporation, Cleveland, Ohio. Rheostat. 1,718,957; July 2.
- Hillman, Carl J., Houston, Tex. Bailor. 1,723,037; Aug. 6.
- Hillman, Herbert H., assignor to Challenge Refrigerator Company, Grand Haven, Mich. Refrigerator and the like. 1,718,958; July 2.
- Hillman, Jack L., Willoughby Township, Lake County, Ohio. Dental X-ray-film holder. 1,698,795; Jan. 15.
- Hillpot, William F., Frenchtown, N. J. Incubator. 1,722,214; July 23.
- Hillpot, William F., Frenchtown, N. J. Ventilating apparatus. 1,722,215; July 23.
- Hillpot, William F., Frenchtown, N. J. Incubator. 1,732,891; Oct. 22.
- Hills Brothers Company, The. (See Stott, Alexander W., assignor.)
- Hills, Franklin G., Pueblo, Colo., assignor to American Smelting and Refining Company, New York, N. Y. Direct production of arsenic oxide. 1,713,127; May 14.
- Hills, Harry B., Los Angeles, Calif. Brake band. 1,697,869; Jan. 8.
- Hills, Isaac A., and G. B. Hooton, Grand Rapids, Mich.; said Hills assignor to said Hooton. Liquid purifier, gravity type. 1,705,329; Mar. 12.
- Hillyard, George L., London, England. Combined mop and wringer. 1,725,582; Aug. 20.
- Hillyer, Homer W., Farmington, Conn., assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of o-nitrochlorbenzol-p-sulphonic acid. 1,701,367; Feb. 5.
- Hilpert, Meier G., Bethlehem, Pa. Child's slide. 1,699,065; Jan. 15.
- Hilpert, Meier G., Bethlehem, Pa. Child's slide. 1,699,066; Jan. 15.
- Hilpert, Meier G., and C. Weiss, Bethlehem, Pa. Building construction. 1,699,697; Jan. 22.
- Hilscher, Curt, Chemnitz, Germany. Knitting machine. 1,719,839; July 9.
- Hilstad, John R., assignor of one-third to H. H. Canterbury and two-thirds to G. G. Griffith, Whittier, Calif. Portable power-operated hammer. 1,718,425; June 25.
- Hilstad, John R., Whittier, assignor to G. G. Griffith, Monrovia, Calif. Metal-bending tool. 1,737,034; Nov. 26.
- Hilstad, John R., Belvidere Gardens, and H. H. Canterbury, Whittier, assignors to G. G. Griffith, Monrovia, Calif. Fender vise. 1,697,117; Jan. 1.
- Hilton, Alan F., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Iron alloy. 1,729,386; Sept. 24.
- Hilton, Alan F., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Iron alloy. 1,729,387; Sept. 24.
- Hilton, Jack L., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Trestle. 1,710,644; Apr. 23.
- Hiltz, George S., Brooklyn, assignor to Stock Quotation Telegraph Company, New York, N. Y. Printing telegraph. 1,732,601; Oct. 22.
- Hiltz, George S., Brooklyn, N. Y., and W. F. Pursell, Hoboken, N. J. One-wire printing-telegraph system. 1,700,225; Jan. 29.
- Hiltz, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Printing-telegraph system. 1,707,521; Apr. 2.
- Hiltz, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Current-transmission apparatus for printing-telegraph and other systems. 1,707,522; Apr. 2.
- Hiltz, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Current-transmission apparatus for printing-telegraph and other systems. 1,711,497; May 7.
- Hiltz, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Printing-telegraph system. 1,711,498; May 7.
- Hiltz, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Printing-telegraph transmitter. 1,713,128; May 14.
- Hiltz, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Printing telegraph. 1,732,602; Oct. 22.



- Himes, Charles C. (See Maxwell, C. H., and Himes.)
- Himes, Edward B., Alhambra, Calif. Pipe cutter. 1,715,921; June 4.
- Himes, Walter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,697,186; Jan. 1.
- Himes, Walter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mounting for circuit breakers. 1,715,706; June 4.
- Himes, Wrightman D., Delta, Colo. Bolt-extracting device. 1,701,409; Feb. 5.
- Himmel Brothers Co., The. (See Himmel, Fred and I., assignors.)
- Himmel, Fred and I., assignors to The Himmel Brothers Co., New Haven, Conn. Store-front construction strip. Des. 78,755; June 18.
- Himmel, Fred and I., assignors to The Himmel Brothers Co., New Haven, Conn. Store-front construction. 1,721,596; July 23.
- Himmel, Fred and I., assignors to The Himmel Brothers Co., New Haven, Conn. Store-front construction. 1,732,046; Oct. 15.
- Himmel, Fred and I., assignors to The Himmel Brothers Co., New Haven, Conn. Building material. 1,741,299; Dec. 31.
- Himmel, Isidore. (See Himmel, Fred and I.)
- Himmelright, Raleigh J., New York, N. Y., assignor to American Arch Company. Ventilated brick construction. 1,723,650; Aug. 6.
- Himmelright, Raleigh J., New York, N. Y., assignor to American Arch Company. Furnace arch. 1,738,580; Dec. 10.
- Himmelright, Raleigh J., New Rochelle, N. Y., assignor to General Refractories Company, Philadelphia, Pa. Refractory arch brick. 1,737,239; Nov. 26.
- Himmelsbach, Karl, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Piston for internal-combustion engines. 1,707,267; Apr. 2.
- Himrod, J. Allison, et al. (See Allen, John F., assignor.)
- Himrod, Julian A., assignor to Erie Foundry Company, Erie, Pa. Plastic-straining machine. 1,716,696; June 11.
- Hinchliffe, William. (See Howe, F. A., Jr., and Hinchliffe.)
- Hinckley, Frank C., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound amplifier. 1,717,778; June 18.
- Hinckley, Frank C., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound box. 1,720,515; July 9.
- Hincks, Reginald N., Victoria, British Columbia, Canada. Golf club. 1,705,250; Mar. 12.
- Hindahl, David. (See Neikirk, J. O., and Hindahl.)
- Hindahl, David, and J. O. Neikirk, Chicago, Ill. Car construction. 1,711,785; May 7.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Car-door lock. 1,716,635; June 11.
- Hinde, James J., assignor to The Hinde Products Company, Chicago, Ill. Apparatus for forming fibrous sheet material. 1,699,487; Jan. 15.
- Hinde, James J., assignor to The Hinde Products Company, Chicago, Ill. Method and apparatus for making fibrous board. 1,730,849; Oct. 8.
- Hinde Products Company, The. (See Hinde, James J., assignor.)
- Hinderliter, Frank J., Tulsa, Okla. Bit forge. 1,716,695; June 11.
- Hinderliter, Frank J., Tulsa, Okla. Bell-socket spear. 1,721,021; July 16.
- Hinderliter, Frank J., Tulsa, Okla. Combination casing ring and elevator. 1,729,940; Oct. 1.
- Hindle, Charles F., assignor to Cambridge Instrument Company, Inc., Ossining-on-Hudson, N. Y. Galvanometer. 1,702,650; Feb. 19.
- Hindman, Howard A., Seattle, Wash. Electrically-heated insulated steam table. 1,741,569; Dec. 31.
- Hindrichs, Albert J. (See O'Neil, A. S., and Hindrichs.)
- Hinds, Daniel C., Sioux Falls, S. Dak. Brake-control mechanism. 1,725,982; Aug. 27.
- Hinds, Daniel C., Sioux Falls, S. Dak., assignor to Ryan Manufacturing Corporation, Chicago, Ill. Road grader. 1,732,892; Oct. 22.
- Hinds Products Company, The. (See Hinde, James J., assignor.)
- Hine, Tredick K., Detroit, Mich. Elevator construction. 1,724,586; Aug. 13.
- Hineline, Harris D., New York, N. Y., assignor to Radio Corporation of America. Telephone receiver. 1,721,217; July 16.
- Hines, Edward A., assignor to R. A. Gunn, Washington, D. C. Auto signaling mechanism. 1,697,841; Jan. 1.
- Hines, Edwin G., Drums, Pa. Insulated bottle receptacle. 1,731,625; Oct. 15.
- Hines, Ella D., Atlanta, Ga. Combined tail light and license plate. 1,698,681; Jan. 8.
- Hines, Joseph E., Latrobe, Pa. Crank-case ventilator. 1,741,111; Dec. 24.
- Hines, Michael J., Hutchinson, assignor of one-half to A. Webber, Dodge City, Kans. Combined harvester and thrasher. 1,726,667; Sept. 3.
- Hines, Posie L. (See Brumfield, Thomas R., assignor.)
- Hines, Posie L. (See Brumfield, T. R., and Hines.)
- Hines, William J., assignor to The Fuller Brush Company, Hartford, Conn. Vanity case. 1,710,661; Apr. 23.
- Hines, William J., assignor to The Fuller Brush Company, Hartford, Conn. Dresser tray. 1,711,412; Apr. 30.
- Hingsburg, Frederick C., Baltimore, Md., assignor to American Gasaccumulator Company, Elizabeth, N. J. Humidity-responsive circuit-closing device. 1,706,850; Mar. 26.
- Hink, John. (See Werner, F., and Hink.)
- Hinkel, Ludwig, Nuremberg, assignor to the firm Testa G. m. b. H., Furth, near Nuremberg, Bavaria, Germany. Metal-tube press. 1,726,800; Aug. 27.
- Hinkson, Park E., Madison, Wis. Poster board. 1,713,903; May 21.
- Hinman, George L., New Haven, Conn., assignor to The Greist Manufacturing Company. Knob. 1,701,776; Feb. 12.
- Hinman, George L., New Haven, Conn., assignor to The Greist Manufacturing Company. Strainer. 1,706,160; Mar. 19.
- Hinman, George L., and F. E. Greene, assignors to The Greist Manufacturing Company, New Haven, Conn. Combination robe rail and handle. 1,717,032; June 11.
- Hinman, John H., assignor to Heine Boiler Company, St. Louis, Mo. Baffle or wall. 1,738,774; Dec. 10.
- Hinman Milking Machine Company Inc. (See Hinman, Ralph L., assignor.)
- Hinman, Ralph L., assignor to Hinman Milking Machine Company Inc., Oneida, N. Y. Drive mechanism for milking machines. 1,717,337; June 11.
- Hinman, Ralph L., assignor to Hinman Milking Machine Company, Oneida, N. Y. Teat cup. 1,739,483; Dec. 10.
- Hinneken, Florent, Paterson, N. J. Rubbing machine. 1,702,778; Feb. 19.
- Hinneken, Florent, Paterson, N. J. Device for treating fabrics with liquid. 1,702,779; Feb. 19.
- Hinneken, Florent, Paterson, N. J. Fabric sprayer. 1,705,919; Mar. 19.
- Hinote, Paul P., Unionville, Iowa. Battery terminal clamp puller. 1,700,051; Jan. 22.
- Hinrich, Robert M., assignor to Drake Avery Company, Detroit, Mich. Adjustable air diffuser. 1,725,353; Aug. 20.
- Hinrichsen, Edward E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,738,245; Dec. 3.
- Hinrichsen, Erich, Hamburg, assignor to the Firm: August Stich, Hamburg-Wilhelmsburg, Germany. Apparatus for releasing ships' lifeboats. 1,720,730; July 16.
- Hinsch, Walter H., and G. J. Christenson, assignors to Locomotive Firebox Company, Chicago, Ill. Thermic siphon and making same. 1,717,033; June 11.
- Hinsdale, Winfield E., assignor to The Trenton Potteries Company, Trenton, N. J. Lavatory. 1,709,131; Apr. 16.
- Hinsdale, Winfield E., assignor to The Trenton Potteries Company, Trenton, N. J. Water-closet-bowl support. 1,709,132; Apr. 16.
- Hinsen, William, Cat Spring, Tex. Figure toy. 1,721,733; July 23.
- Hinshaw, Summers. (See Giesler, J. V., and Hinshaw.)
- Hinson Manufacturing Company, The. (See Wengard, Ben, assignor.)
- Hinton, Earl J. (See Anderson, E. J., and Hinton.)
- Hinton, George B., Mexico, Mex. Apparatus for making a cellular fabric. 1,733,018; Oct. 22.
- Hinton, George B., Mexico, Mexico. Cellular fabric. 1,739,460; Dec. 10.
- Hinton, Grover W. (See Nimrick, O., and Hinton.)
- Hinton, Norman P., London, England, assignor, by mesne assignments, to Metropolitan-Vickers Electrical Company Limited. Wireless receiving circuit. 1,702,439; Feb. 19.
- Hinton, Norman P., Alburyville, England, assignor, by mesne assignments, to Metropolitan-Vickers Electrical Company Limited. Receiving circuit for wireless signaling. 1,702,440; Feb. 19.
- Hintz, Leroy F., Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., Wilmington, Del. Shipping packages and the like. 1,705,053; Mar. 12.
- Hintz, Leroy F., Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., Wilmington, Del. Loading packages in bound units. 1,705,059; Mar. 12.
- Hintz, Leroy F., Chicago, Ill., assignor, by mesne assignments, to The Gerrard Company, Inc., Wilmington, Del. Method of and apparatus for stowing cargoes. 1,705,060; Mar. 12.
- Hintz, Walter L., assignor to Taylor Electric Company, Madison, Wis. Automatic grounding relay. 1,728,408; Sept. 17.
- Hintze, Arthur, Berlin-Lichterfelde, Germany. Apparatus for ascertaining colors. 1,704,605; Mar. 5.
- Hintze, Walter B. (See Sheller, John C., assignor.)
- Hipp, Didisheim Co., et al. (See Kraemer, August F., assignor.)
- Hippenmeyer, Irving R., Waukegan, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Bottle-washing apparatus. 1,724,087; Aug. 13.
- Hippenmeyer, Irving R., Waukegan, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Spraying device. 1,734,580; Nov. 5.
- Hipperson, Victor E., Norwich and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Work support. 1,737,719; Dec. 3.
- Hipple, James L., Canton, Ill., assignor to International Harvester Company. Plow. 1,723,396; Aug. 20.



- Hipple, James L., Canton, Ill., assignor to International Harvester Company. Plow hitch. 1,725,397; Aug. 20.
- Hipple, Percy A., Atlanta, Ga. Laying concrete pavements. 1,705,088; Mar. 12.
- Hippsich, Karl, Hamburg, Germany. Diving apparel adapted to withstand high pressure. 1,722,375; July 30.
- Hipwell, Harry T., Pittsburgh, Pa. Flash lamp. 1,738,725; Dec. 10.
- Hirakawa, George S., Suisun, Calif. Machine for packing asparagus. 1,705,920; Mar. 19.
- Hires, Castner & Harris, Inc. (See Hawkins, Cyrus, assignor.)
- Hires, John E., Langhorne, Pa., assignor, by mesne assignments to Salem Glass Works, Salem, N. J. Bottle-handling device. 1,742,074; Dec. 31.
- Hirr, Otto, E. Avilés, and A. Forero, Buenos Aires, Argentina. Sign for advertising and the like. 1,697,913; Jan. 8.
- Hirsch, Alexander P. (See Gluck, E. V., and Hirsch.)
- Hirsch, Alfred C. (See Krause, A. R., and Hirsch.)
- Hirsch, Emanuel O., Winnetka, assignor to Hirsch Shirt Corporation, Chicago, Ill. Shirt. 1,729,110; Sept. 24.
- Hirsch, Hans, and H. Hecht, Berlin, Germany. Testing apparatus for measuring the compressibility of bodies softening when compressing. 1,699,589; Jan. 22.
- Hirsch, Harry, New York, N. Y. Packing box or container. 1,711,348; Apr. 30.
- Hirsch, Henry, Jersey City, N. J. Laundry marking and assembling system. 1,721,076; July 16.
- Hirsch, Isaac S., New York, N. Y. X-ray photographic apparatus. 1,722,573; July 30.
- Hirsch, Lee. (See Herzog, J. L., and Hirsch.)
- Hirsch, Otto C. L., Chicago, Ill. Sausage linking and twisting machine. 1,700,131; Jan. 29.
- Hirsch Shirt Corporation. (See Hirsch, Emanuel O., assignor.)
- Hirschberg, S. Charles. (See Napp, Charles E., assignor.)
- Hirschel, Arno F. (See Bressler, R. E., and Hirschel.)
- Hirschel, Otto. (See Hoffa, E., Heyna, Thoma, and Hirschel.)
- Hirschfeld, Walter H., assignor to R. L. Hosmer, Boston, Mass. Projecting apparatus. 1,698,096; Jan. 8.
- Hirschkind, Wilhelm. (See Hagens, J. F. C., Rosenstein, and Hirschkind.)
- Hirschkind, Wilhelm, Pittsburg, Calif., assignor to Great Western Electro-Chemical Company. Manufacturing sodium xanthate. 1,701,264; Feb. 5.
- Hirschkind, Wilhelm, Antioch, assignor to Great Western Electric Chemical Co., San Francisco, Calif. Making alkali-metal xanthates. 1,704,249; Mar. 5.
- Hirschler, Horace L. (See Manning, F. W., and Hirschler.)
- Hirschman, Max, New York, N. Y. Lightproof window closure. 1,737,885; Dec. 3.
- Hirschner, Karl, assignor to the firm Schmidt & Melmer, Weidenau-on-the-Seig, Germany. Device for the dust-free discharge of circular dustbins into refuse-collecting carts. 1,715,364; June 4.
- Hirschson, Franz, Berlin, Germany. Photometer, principally for photographic and pyrometric purposes. 1,731,134; Oct. 8.
- Hirschy Company, The. (See Hirschy, Herman C., assignor.)
- Hirschy, Herman C. (See Ritchie John R., assignor.)
- Hirschy, Herman C., Duluth, Minn. Washing machines. 1,716,960; June 11.
- Hirschy, Herman C., assignor to The Hirschy Company, Duluth, Minn. Washing machine. 1,737,421; Nov. 26.
- Hise Bed Spring Company. (See Hise, James P., assignor.)
- Hise, James P., Staunton, Va., assignor to Hise Bed Spring Company. Bedspring. 1,742,035; Dec. 31.
- Hirsh, Benjamin. (See Klein, Friedrich, assignor.)
- Hirsh, Fred, New York, N. Y. Belt buckle. Des. 78,552; May 14.
- Hirsh, Fred, assignor to Adjuta Company, New York, N. Y. Slide fastener. 1,701,453; Feb. 5.
- Hirsh, Fred, assignor to Adjuta Company, New York, N. Y. Slide buckle and strap attachment. 1,719,469; July 2.
- Hirsh, Fred, assignor to Adjuta Company, New York, N. Y. Adjustable strap fastening. 1,719,470; July 2.
- Hirshon, Beatrice L., New York, N. Y., assignor to Vocational Adjustment Bureau. Shoe form. 1,725,516; Aug. 20.
- Hirshfield, Clarence F., Detroit, Mich. Simultaneously separating mixed liquids of different boiling points and generating power. 1,716,130; June 4.
- Hirst, James E., assignor to The J. A. Fay & Egan Company, Cincinnati, Ohio. Power-controlled rip-sawing machine. 1,734,090; Nov. 5.
- Hirst, John A., Chester, England. Switch gear for starting and controlling electric motors. 1,725,079; Aug. 20.
- Hirst, Maurice D., assignor to The Safety Dry Cleaning System Co., Philadelphia, Pa. Dry-cleaning apparatus. 1,697,766; Jan. 1.
- Hirst, Maurice D., assignor to Safety Dry Cleaning System Co., Philadelphia, Pa. Dry-cleaning apparatus. 1,697,767; Jan. 1.
- Hirtzler, Fred A., Chicago, Ill. Container. 1,715,757; June 4.
- Hirzel, Hermann, Zurich, Switzerland, assignor to Sharp and Dohme, Inc., Baltimore, Md. Preparing hexyresorcinol. 1,717,105; June 11.
- Hisek, Charles, Tyndall, S. Dak. Husking-mitten thumb protector. 1,736,344; Nov. 19.
- Hisky, Ted E., Los Angeles, Calif. Safety razor. 1,725,517; Aug. 20.
- Hisle, Edward, Lexington, Ky. Barge for raising sunken vessels. 1,715,291; May 28.
- Hiss, John M., Columbus, Ohio. Apparatus for supporting arches. Re17,243; Mar. 26.
- Hiss, John M., Columbus, Ohio. Arch support for shoes. 1,714,670; May 28.
- Hiss, Nelson. (See Potter, F. D., and Hiss.)
- Hist, John, assignor to The Cleveland Implement Manufacturing Company, Cleveland, Ohio. Potato digger. 1,715,198; May 28.
- Hitch, Emmet F., and H. Jordan, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dye and preparing same. 1,735,924; Nov. 19.
- Hitch, Emmet F., H. Jordan, and A. O. Bradley, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Disazo dye and preparing the same. 1,739,031; Dec. 10.
- Hitch, Emmet F., H. Jordan, and A. O. Bradley, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Disazo dye and preparing the same. 1,739,032; Dec. 10.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for polishing plate glass. 1,698,365; Jan. 8.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making composite glass. 1,734,379; Nov. 5.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making composite glass. 1,734,380; Nov. 5.
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-surfacing apparatus. 1,741,021; Dec. 24.
- Hitchcock, Helen S., New York, N. Y. Toy animal. 1,731,926; Oct. 15.
- Hitchcock, James E., Fullerton, Calif. Chain tool. 1,710,092; Apr. 23.
- Hite, Charles E., Philadelphia, Pa., assignor, by mesne assignments, to Universal Gypsum & Lime Co., Chicago, Ill. Insulating material and making the same. 1,702,729; Feb. 19.
- Hite, Charles E., Philadelphia, Pa., assignor, by mesne assignments, to Universal Gypsum & Lime Co., Chicago, Ill. Wall product and apparatus for and method of making same. 1,702,730; Feb. 19.
- Hiter, William Y., Louisa, Va. Feed barrier for mangers. 1,738,068; Dec. 3.
- Hitosi, Slio, Nagoya, Japan. Automatic insect trap using lamps. 1,701,674; Feb. 12.
- Hitt, Maurice V., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrocellulose coating composition and film made therefrom. 1,740,453; Apr. 23.
- Hitt, Thomas G., Seattle, Wash. Rotary rocket. 1,714,671; May 28.
- Hitt, Thomas G., Seattle, Wash. Combination fire-crackers wrapper and lighter. 1,727,705; Sept. 10.
- Hitt, Thomas G., Seattle, Wash. Ornamental receptacle for distributing novelties. 1,727,706; Sept. 10.
- Hitt, Verlington F., Miami Beach, Fla. Rumble seat. 1,729,580; Sept. 24.
- Hittle, John H., Goff, Kans. Portable saw. 1,718,860; June 25.
- Hitzeman, Arnold P., assignor to Wayne Company, Fort Wayne, Ind. Liquid-dispensing apparatus. 1,715,554; June 4.
- Hitzeman, Arnold P., assignor to Wayne Company, Fort Wayne, Ind. Liquid-dispensing apparatus. 1,740,348; Dec. 17.
- Hi-Voltage Equipment Company. (See Hart, Lester C., assignor.)
- Hix, Alfred G. O., Los Angeles, Calif. Dispenser. 1,715,922; June 4.
- Hix, Charles H., jr., Norfolk, and H. W. Sykes, Portsmouth, assignors to R. W. Whitehurst Manufacturing Corporation, Norfolk, Va. Cart. 1,716,636; June 11.
- Hixson, Charles T., assignor of one-fourth to W. W. Campbell, Aztec, N. Mex., and one-fourth to H. E. Fischel, Durango, Colo. Noncorrodible battery terminal. 1,715,599; June 4.
- Hjelmstad, Einar M., and J. J. Hegstad, Holmes, N. Dak. Grass and weed digging machine. 1,710,259; Apr. 23.
- Hjert, Andrew G., Seattle, Wash. Wire tightener. 1,707,634; Apr. 2.
- Hoag, Floyd W., Syracuse, N. Y. Fastener for display button. 1,728,409; Sept. 17.
- Hoag, Homer L., Rutland, Vt. Reversible ironing board. 1,729,388; Sept. 24.
- Hoag, James W., Oakland, assignor of one-half to T. L. Shultz, Alameda, Calif. Printing-press feeder. 1,724,199; Aug. 13.
- Hoag, Philip O., assignor to Whitehead & Hoag Company, Newark, N. J. Display button. 1,729,778; Oct. 1.
- Hoagland, Frank O. (See Banfield, F. E., jr., and Hoagland.)
- Hoagland, Frank O., Bridgeport, assignor to Saco-Lowell Shops, Boston, Mass. Fluting tool. 1,704,192; Mar. 5.
- Hoagland, Frank O., Bridgeport, P. M. Mueller, West Hartford, and A. B. Lindstrom, Hartford, Conn., assignors to Pratt & Whitney Company, New York, N. Y. Precision thread-grinding machine. 1,701,675; Feb. 12.



- Hoagland, Frank O., Bridgeport, Conn., assignor to Saco-  
Lowell Shops, Boston, Mass. Apparatus for manufac-  
turing drafting rolls. 1,728,286; Sept. 17.
- Hoagland, Frank O., Bridgeport, Conn., assignor to Pratt  
& Whitney Company, New York, N. Y. Auxiliary tool-  
rotating device for boring and drilling machines. 1,735,398; Nov. 12.
- Hoaglund, Elmer L., Wilkinsburg, Pa. Multiple-speed hy-  
draulic transmission. 1,704,606; Mar. 5.
- Hoague, James M., Janesville, Wis. Support for over-  
stuffed furniture seats. 1,737,241; Nov. 26.
- Hoague-Sprague Corporation. (See Smith, Harry B., as-  
signor.)
- Hoague-Sprague Corporation. (See Sprague, Charles F.,  
assignor.)
- Hoague-Sprague Corporation. (See Woodworth, William  
W., assignor.)
- Hoban, Fairfield W., New York, N. Y. Amusement novelty.  
1,703,273; Feb. 26.
- Hobart, Charles J., assignor to Link-Belt Company, Chi-  
cago, Ill. Traveling water screen. 1,732,649; Oct. 22.
- Hobart, Henry M., Schenectady, N. Y., assignor to General  
Electric Company. Electric ship propulsion. 1,701,368;  
Feb. 5.
- Hobart, Henry M., Schenectady, N. Y., assignor to General  
Electric Company. Electric-power system. 1,723,857;  
Aug. 6.
- Hobart Manufacturing Company. (See Dahloff, Ture W.,  
assignor.)
- Hobart Manufacturing Co., The. (See Johnson, Herbert L.,  
assignor.)
- Hobart Manufacturing Company. (See Merseles, Henry R.,  
assignor.)
- Hobart Manufacturing Co. (See Navarre, Paul, assignor.)
- Hobbs, Elmer E. (See Norton, N. H., and Hobbs.)
- Hobbs, John W., Moline, Ill., assignor, by mesne assign-  
ments, to The Duff-Norton Manufacturing Company,  
Pittsburgh, Pa. Wheel. 1,727,205; Sept. 3.
- Hobbs, Leonidas P., Houston, Tex. Newspaper rack.  
1,735,900; Nov. 19.
- Hobbs, William R. (See Blackford, Gilbert V., assignor.)
- Hoberecht, Frederick A., Oakland, Calif. Hair clipper.  
1,730,889; Oct. 8.
- Hobson, Arthur W., San Antonio, Tex. Container.  
1,714,368; May 21.
- Hobson, Harry F. (See Denison, J. F., and Hobson.)
- Hobson, John H., assignor of one-fifth to J. A. Brown,  
one-fifth to C. A. Swares, one-fifth to W. J. Brown,  
and one-fifth to W. T. Feazell, Sulphur Springs, Ark.  
Switch. 1,739,673; Dec. 17.
- Hobson, John S., Chicago, Ill., and J. S. Huntoon, Detroit,  
Mich., assignors to Massey Concrete Products Corpora-  
tion, Chicago, Ill. Cribbing. 1,704,941; Mar. 12.
- Hobson, John S., Chicago, Ill., and J. S. Huntoon, Detroit,  
Mich., assignors to Massey Concrete Products Corpora-  
tion, Chicago, Ill. Cribbing. 1,707,224; Apr. 2.
- Hobson, John S., Chicago, Ill., assignor to The Union  
Switch & Signal Company, Swissvale, Pa. Railway-  
switch-operating apparatus. 1,708,139; Apr. 9.
- Hobson, John S., Chicago, Ill., assignor to The Union  
Switch & Signal Company, Swissvale, Pa. Railway-traffic-  
controlling apparatus. 1,728,548; Sept. 17.
- Hobson, Stanley H., assignor to Geo. D. Roper Corporation,  
Rockford, Ill. Electric stove. 1,726,830; Sept. 3.
- Hoch, Charles, Vitry-sur-Seine, France. Convertible car-  
riage work. 1,710,874; Apr. 30.
- Hoch, George, Bronx, assignor to Star Chandelier Co., Inc.,  
New York, N. Y. Chandelier or similar article. Des.  
79,654; Oct. 22.
- Hoch, George, Bronx, assignor to Star Chandelier Co., Inc.,  
New York, N. Y. Electric wall bracket or similar article.  
Des. 79,655; Oct. 22.
- Hoch, George, assignor to Star Chandelier Co., Inc., New  
York, N. Y. Chandelier or similar article. Des. 79,812;  
Nov. 5.
- Hoch, George, assignor to Star Chandelier Co., Inc., New  
York, N. Y. Electric wall bracket or similar article.  
Des. 79,813; Nov. 5.
- Hoch, George, assignor to Star Chandelier Co., Inc., New  
York, N. Y. Chandelier or similar article. Des. 79,814;  
Nov. 5.
- Hoch, George, assignor to Star Chandelier Co., Inc., New  
York, N. Y. Electric wall bracket or similar article.  
Des. 79,815; Nov. 5.
- Hoche, Adam, assignor to Litmo Adhesive & Products  
Company, Lynn, Mass. Making glue. 1,710,687;  
Apr. 30.
- Hochherz, Carl, Augsburg, Germany. Absorption refrig-  
erating apparatus. 1,697,187; Jan. 1.
- Hochhut, Julius, Klein-Freden, Germany. Manufacturing  
glass-melting crucibles and similar refractory objects of  
clay. 1,732,088; Oct. 15.
- Hochriem, Gustav F., assignor to Rhodes-Hochriem Manu-  
facturing Company, Chicago, Ill. Weighing and print-  
ing machine. 1,710,980; Apr. 30.
- Hochriem, Gustav F., assignor to Rhodes-Hochriem Manu-  
facturing Company, Chicago, Ill. Weighing and ticket-  
printing machine. 1,736,284; Nov. 19.
- Hochwalt, Carroll A. (See Midgley, T., jr., Hochwalt, and  
Thomas.)
- Hochwalt, Carroll A., assignor to General Motors Re-  
search Corporation, Dayton, Ohio. Removing carbon  
deposits from engine cylinders. 1,726,437; Aug. 27.
- Hocken, Barry, Polruan, Fowey, assignor to Hydro-Indi-  
cators Limited, London, England. Signaling and indi-  
cating apparatus. 1,723,420; Aug. 6.
- Hockensmith Wheel & Mine Car Company. (See Hocken-  
smith, Wilbur D., assignor.)
- Hockensmith, Wilbur D., Irwin, Pa., assignor to Hocken-  
smith Wheel & Mine Car Company. Hub for mine-car  
wheels. 1,718,045; June 18.
- Hocking, Earnest G., and R. H. Taylor, Compton, Calif.  
Combination rocker and high chair. 1,729,941; Oct. 1.
- Hodaly, Emerik, Fordson, Mich. Cushion flap for shoes.  
1,732,014; Oct. 15.
- Hodecker, Charles E., Pittsfield, Mass. Electric signal  
light. 1,709,850; Apr. 23.
- Hodell, Frederick G., Cleveland Heights, assignor to The  
Chain Products Company, Cleveland, Ohio. Tire chain.  
1,740,092; Dec. 17.
- Hodge, Frederick A., assignor to The Selden Company,  
Pittsburgh, Pa. Converter. 1,729,581; Sept. 24.
- Hodge, George O., Bristol, assignor to Standard Steel and  
Bearings, Incorporated, Plainville, Conn. Antifriction  
bearing and making the same. 1,719,702; July 2.
- Hodge, George O., Bristol, Conn. Riveting ball-bearing  
cages. 1,726,985; Sept. 3.
- Hodge, Howard G. (See Gardner, R. H., and Hodge.)
- Hodge, Lewis W. (See Payne, J. M., and Hodge.)
- Hodges, Fred. M., et al. (See McFarland, Ernest H., as-  
signor.)
- Hodges, Gordon K., Montreal, Quebec, Canada. Legging.  
1,737,795; Dec. 3.
- Hodges, James A., et al. (See McFarland, Ernest H., as-  
signor.)
- Hodges, John M., et al. (See McFarland, Ernest H., as-  
signor.)
- Hodges, Moses G., and A. Schillinger, Tulsa, Okla. Pres-  
sure device. 1,700,763; Feb. 5.
- Hodges, Walter F. (See Hodges, William, and W. F.)
- Hodges, William B., Eupora, Miss. Pneumatic rivet buck-  
er. 1,708,300; Apr. 9.
- Hodges, William & Company. (See Hodges, William, and  
W. F., assignors.)
- Hodges, William and W. F., assignors to William Hodges  
& Company, Philadelphia, Pa. Kitchen utensil.  
1,740,302; Dec. 17.
- Hodgins, Gerald B., Moscow, Idaho. Stop mechanism for  
talking machines. 1,723,170; Aug. 6.
- Hodgkins, Charles H. (See Clayton, E. M., and Hodgkins.)
- Hodgkins, Charles H. (See James, H. D., and Hodgkins.)
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to West-  
inghouse Electric & Manufacturing Company. Thermal  
relay. 1,725,518; Aug. 20.
- Hodgkins, Charles H., and C. M. Moss, Pittsburgh, Pa.,  
assignors to Westinghouse Electric and Manufacturing  
Company. Automatic switch. 1,700,890; Feb. 5.
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to West-  
inghouse Electric & Manufacturing Company. Pressed  
metal switch. 1,732,750; Oct. 22.
- Hodgkins, Ernest C., Newton Center, Mass. Temperature  
regulator for mechanical refrigerators. 1,741,237;  
Dec. 31.
- Hodgkins, Harold C., Portland, Oreg. Vending display  
cabinet and container for said cabinet. 1,737,156;  
Nov. 26.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to West-  
inghouse Electric & Manufacturing Company. Condens-  
er. 1,710,733; Apr. 30.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to West-  
inghouse Electric & Manufacturing Company. Turbine-  
generator support. 1,716,132; June 4.
- Hodgkinson, Francis, Swarthmore, Pa., assignor to West-  
inghouse Electric & Manufacturing Company. Condenser  
preheater. 1,721,251; July 16.
- Hodgkinson, Francis, and R. C. Allen, Swarthmore, Pa., as-  
signors to Westinghouse Electric & Manufacturing Com-  
pany. Power plant. 1,726,561; Sept. 3.
- Hodgkinson, Percy W., St. Petersburg, Fla., assignor to  
Wayne Company, Fort Wayne, Ind. Gasoline-dispensing  
device. 1,715,551; June 4.
- Hodgson, Albert E., and N. C. Jones, London, England.  
Detachable cylinder head for internal-combustion en-  
gines. 1,722,216; July 23.
- Hodgson, Albert E., and N. C. Jones, London, England.  
Apparatus for generating oil gas. 1,739,461; Dec. 10.
- Hodgson, Harriette E., New York, N. Y. Outdoor urinal.  
1,702,542; Feb. 19.
- Hodgson, Harriette E., New York, N. Y. Policeman's club.  
1,716,131; June 4.
- Hodgson, Harriette E., New York, N. Y. Apartment en-  
larger. 1,730,819; Oct. 8.
- Hodgson, Harriette E., New York, N. Y. Child's tether.  
1,738,581; Dec. 10.
- Hodgson, Howard E., Wauwatosa, Wis., assignor, by mesne  
assignments, to Cutler-Hammer, Inc. Circuit controller  
for lifting magnets. 1,737,846; Dec. 3.
- Hodgson, Hugh B., Mobridge, S. Dak. Rail joint.  
1,723,421; Aug. 6.
- Hodgson, John K., Eau Gallie, Fla. Toy aeroplane.  
1,723,618; Aug. 6.
- Hodgson, John L., near Leighton Buzzard, England. Fluid  
meter. 1,707,160; Mar. 26.
- Hodinka, Andrew, New York, N. Y. Foldable table and  
chair. 1,736,531; Nov. 19.
- Hodler, Ernst, assignor to Transkrit A. G., Zurich,  
Switzerland. Producing copying paper. 1,705,405;  
Mar. 12.



- Hodlick, Charles E., and O. Keller, assignors to Sharp & Smith, Inc., Chicago, Ill. Retractor. 1,727,879; Sept. 10.
- Hodnephel, Olaus T. (See O'Brien, Edward J., assignor.)
- Hodsdon, Floyd G. (See Horthy, W. A., and Hodsdon.)
- Hodsdon, Floyd G. (See Johnston, E. A., and Hodsdon.)
- Hodshon, Ernest E., Nutley, N. J. Apparatus for banding bats. 1,730,573; Oct. 8.
- Hodtman, Joseph B., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Electric transformer. 1,065,774; Mar. 26.
- Hoe Corporation. (See Busk, Anthony S., assignor.)
- Hoe, R., & Co. (See Ball, Harry V., assignor.)
- Hoe, R., & Co. (See Ball, H. V., and Smalley, assignors.)
- Hoe, R., & Co. (See Beisinger, Daniel, assignor.)
- Hoe, R., & Co. (See Davis, Harry, assignor.)
- Hoe, R., & Co. (See Gaskell, Charles W., assignor.)
- Hoe, R., & Co. (See Graf, Albert J., assignor.)
- Hoe, R., & Co. (See Halliwell, John J., assignor.)
- Hoe, R., & Co. (See Horton, Albert J., assignor.)
- Hoe, R., & Co. (See Horton, A. J., and Gravenhorst, assignors.)
- Hoe, R., & Co. (See Lamatsch, Frederick, assignor.)
- Hoe, R., & Co. Inc. (See Morris, Edward T., assignor.)
- Hoe, R., & Co. (See Ogden, Walter H., assignor.)
- Hoe, R., and Co. (See Roosen, Oscar C., assignor.)
- Hoe, R., & Co. (See Schmidt, Louis A., assignor.)
- Hoe, R., & Co. (See Sheldon, Edward P., assignor.)
- Hoe, R., & Co. (See Walker, Irl R., assignor.)
- Hoe, R., & Co. (See Zuckerman, Adolph M., assignor.)
- Hoe, R., & Co. Inc. (See Graf, A. J., and Eckhard, assignors.)
- Hoe, Robert, Hyde-Park-on-Hudson, N. Y. Ironing machine. 1,705,921; Mar. 19.
- Hoeker, Albert C., St. Louis, Mo. Jack and bumper for automobiles. 1,717,686; June 18.
- Hoeker, Albert C., St. Louis, Mo. Combined bumper and jack for automobiles. 1,737,720; Dec. 3.
- Hoedt, Louis, Brooklyn, N. Y. Adjustable combustion-controlling apparatus. 1,707,012; Mar. 26.
- Hoefel, Charles E. (See Wesbecher, Frank, assignor.)
- Hoefberberth, George F., Dayton, Ohio. Golf scorer. 1,701,888; Feb. 12.
- Hoefler, Herbert G., East Haven, assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird-cage body. Des. 79,081; July 30.
- Hoefler, Herbert G., East Haven, assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird-cage top. Des. 79,332; Sept. 3.
- Hoefler, Lena, R. (See Eldridge, Ida M., assignor.)
- Hoelt, Adolph R., Evanston, assignor to Hoeft & Company, Inc., North Chicago, Ill. Adjustable roof saddle for stovepipes. 1,703,670; Feb. 26.
- Hoelt, Adolph R., Evanston, assignor to Hoeft & Company, Inc., North Chicago, Ill. Shipping box. 1,727,880; Sept. 10.
- Hoelt, Adolph R., Evanston, assignor to Hoeft & Company, Inc., North Chicago, Ill. Shipping box. 1,729,942; Oct. 1.
- Hoeft & Company. (See Hoeft, Adolph R., assignor.)
- Hoefmann, Alexander O., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Hight-tension cable. 1,701,808; Feb. 12.
- Hoegger, Joseph A., Jersey City, N. J. Wall cabinet. Re17,510; Dec. 3.
- Hoegger, Joseph A., Jersey City, N. J. Shaving mirror. Des. 78,519; May 14.
- Hoegger, Joseph A., Jersey City, N. J. Wall cabinet. 1,707,013; Mar. 26.
- Hoegger, Joseph A., Jersey City, N. J. Cabinet. 1,715,032; May 28.
- Hoegger, Joseph A., Jersey City, N. J. Bottle opener. 1,715,033; May 28.
- Hoegger, Joseph A., Jersey City, N. J. Grab bar. 1,725,802; Aug. 27.
- Hoegger, Joseph A., Jersey City, N. J. Concealed door hinge and stop. 1,738,705; Dec. 10.
- Hoekstra, Albert, Sheldon, Iowa. Seed-bed leveler. 1,710,420; Apr. 23.
- Hoellrigl, Joseph, Manchester, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y. Page-end lock. 1,726,487; Aug. 27.
- Hoelscher Brothers. (See Hoelscher, Herman M., assignor.)
- Hoelscher, Herman M., assignor to Hoelscher Brothers, Chicago, Ill. Pop-up valve. 1,723,038; Aug. 6.
- Hoelscher, William G. (See Sosa, A. M., and Hoelscher.)
- Hoen, Louis Q., Newton, Iowa. Door-check, automatic latch, and night hook. 1,699,189; Jan. 15.
- Henshel, Paul M., assignor to Mayaca Company, Miami, Fla. Combined irrigation and drainage pump. 1,737,372; Nov. 26.
- Hoepner Automatic Machinery Corporation. (See Hoepner, George, assignor.)
- Hoepner, George, Chicago, Ill., assignor to Hoepner Automatic Machinery Corporation, Buffalo, N. Y. Weighing and bag-filling machine. 1,721,909; July 23.
- Hoerger, John J., Hillside, N. J. Resilient padding. 1,707,663; Apr. 2.
- Hoerl, Conrad, Newark, N. J. Regulatable centrifugal clutch. 1,726,562; Sept. 3.
- Hoerman, Roman A. (See Walters, H., and Hoerman.)
- Hoern, Joseph H., Saginaw, assignor to Wilcox-Rich Corporation, Detroit, Mich. Making poppet valves. 1,724,282; Aug. 13.
- Hoeschen, Henry A., assignor of one-half to Baker Ice Machine Co., Inc., Omaha, Nebr. Thermostatic flow regulator. 1,726,068; Aug. 27.
- Hoebel, Herman F. (See Auerbach, Karl, assignor.)
- Hoebel, Herman F. (See Menne, Fritz, assignor.)
- Hoey, John J. (See Honeyman, H. W., Jr., and Hoey.)
- Hoey, John J., Providence, R. I. Tenter clip. 1,739,071; Dec. 10.
- Hofamann, Karl E. (See Goodfellow, T. F., and Hofamann.)
- Hofbauer, Anthony, Buffalo, N. Y. Line holder. 1,705,523; Mar. 19.
- Hofer, David, Raley, Alberta, Canada. Grain-guiding attachment for harvesters. 1,733,061; Oct. 22.
- Hofer, Hans, assignor to Verzhinkerei Zug A. G., Zug, Switzerland. Centrifugal machine for treating metal articles coated by immersion. 1,711,389; Apr. 30.
- Hofer-Massard, Hermann, Lausanne, Switzerland. Almond milk composition. 1,721,522; July 23.
- Höfer, Walter, Leifinghausen, near Ludenscheid, Germany. Fastener-attaching machine. 1,732,845; Oct. 22.
- Hoff, Adam F., Baltimore, Md. Cabinet or case for household uses. 1,698,593; Jan. 8.
- Hoff, Adam F., Baltimore, Md. Zoning marker for street traffic. 1,698,594; Jan. 8.
- Hoff, Carlton L., and G. G. Naugle, assignors to Hoff Metal Products Co., York, Pa. Forming eyes in wire. 1,713,964; May 21.
- Hoff, Earl B., Cleveland Heights, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Washing machine. 1,721,956; July 23.
- Hoff, George K., Jr., Philadelphia, Pa., assignor to Ideal Cup Corporation, Brooklyn, N. Y. Method and apparatus for producing fiber vessels. 1,716,554; June 11.
- Hoff, Joseph B., Philadelphia, Pa. Gravity friction switch. 1,726,225; Aug. 27.
- Hoff Metal Products Co. (See Hoff, C. L., and Naugle, assignors.)
- Hoffa, Erwin. (See Steiger, N., Hoffa, and Heyna.)
- Hoffa, Erwin. (See Thiess, K., Müller, and Hoffa.)
- Hoffa, Erwin. (See Wagner, H., Brune, Hessenland, Hoffa, Müller, and Heyna.)
- Hoffa, Erwin, R. Brune, Höchst-on-the-Main, and J. Müller, Hanau-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Making 4-alkyloxybenzene-1-carboxy-amino-2-thioglycollic acids. 1,725,080; Aug. 20.
- Hoffa, Erwin, and H. Heyna, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparing dyestuffs of the thioindigo series. 1,709,982; Apr. 23.
- Hoffa, Erwin, H. Heyna, and F. Müller, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Indigoid dyestuff and preparing the same. 1,730,209; Oct. 1.
- Hoffa, Erwin, H. Heyna, E. Thoma, and O. Hirschel, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs and preparing the same. 1,710,981; Apr. 30.
- Hoffa, Erwin, and P. Jörg, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparing aromatic mercaptans. 1,706,489; Mar. 26.
- Hoffa, Erwin, and W. Luce, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Producing compounds containing carbocyclic or heterocyclic rings. 1,733,453; Oct. 29.
- Hoffa, Erwin, Höchst-on-the-Main, J. Müller, Hanau-on-the-Main, and F. Müller, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Making 1-methyl-5-chlorobenzene-2-carboxy-amino-3-thioglycollic acid. 1,703,145; Feb. 26.
- Hoffa, Erwin, E. Runne, and E. Thoma, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Chlorosubstituted product of the 1-amino-2,4 dimethylbenzene and preparing it. 1,730,729; Oct. 8.
- Hoffa, Erwin, E. Thoma, and H. Heyna, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuffs and preparing them. 1,698,884; Jan. 15.
- Hoffenreffer, Adolf F. (See Cook, John T., assignor.)
- Hoffer, Ivan L., New York, N. Y. Egg beater. 1,730,506; Oct. 8.
- Hoffer, James M., Steelton, Pa., assignor to Bethlehem Steel Company. Switch stand. 1,712,995; May 14.
- Hoffer, Le Roy H., assignor to T. E. Murray, Brooklyn, N. Y. Electric welding machine. 1,716,442; June 11.
- Hoffman, Alfred, Kew Gardens, N. Y. Manufacture of diacetone ethers. 1,729,255; Sept. 24.
- Hoffman, Andrew, Manufacturing Company. (See Bock, Charles S., assignor.)
- Hoffman, Andrew, Manufacturing Company. (See Hoffman, Andrew, assignor.)
- Hoffman, Andrew, assignor to Andrew Hoffman Manufacturing Company, Chicago, Ill. Casement-window fastener. 1,709,433; Apr. 16.
- Hoffman, Ben P. (See Bisbee, W. G., and Hoffman.)
- Hoffman, Benjamin P., assignor to The Pierce Development Company, Tulsa, Okla. Packing for oil-well stuffing boxes. 1,705,566; Mar. 19.
- Hoffman, Benjamin P., assignor to Pierce Development Company, Tulsa, Okla. Elevator hook. 1,707,721; Apr. 2.



- Hoffman, Benjamin P., assignor to The Pierce Development Company, Tulsa, Okla. Stuffing box. 1,716,961; June 11.
- Hoffman, Chancellor H., Ridgewood, N. J. Stacking box. 1,708,474; Apr. 9.
- Hoffman, Charles J., and R. S. Shrader, Indianapolis, Ind. Bridge golf. 1,715,365; June 4.
- Hoffman, Clarence, and E. P. Emerson, Red Lion, Pa. Woodworking-machine attachment. 1,715,292; May 28.
- Hoffman Development Company of Michigan. (See Hoffman, Glenn R., assignor.)
- Hoffman, Earl E., assignor to Indian Motorcycle Company, Springfield, Mass. Lubricated multiple-disk clutch. 1,702,116; Feb. 12.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Powder can. Des. 79,717; Oct. 29.
- Hoffman, Frances I., Seattle, Wash. Lingerie clasp. 1,718,559; June 25.
- Hoffman, Francis M., Detroit, Mich. Wire-supporting arrangement. 1,697,062; Jan. 1.
- Hoffman, Frank, New York, N. Y. Stand for flexible posters. 1,713,082; May 14.
- Hoffman, Frank, Detroit, Mich. Propeller. 1,723,619; Aug. 6.
- Hoffman, Frank, and C. Lamour, Philadelphia, Pa. Scaffold. 1,703,424; Feb. 26.
- Hoffman, Frank E., Larchmont, N. Y. Twine cabinet. 1,714,469; May 21.
- Hoffman, Fred P., assignor to R. A. Schott, Chicago, Ill. Incandescent lamp. 1,712,996; May 14.
- Hoffman, Frederick. (See Duffy, J. J., and Hoffman.)
- Hoffman, George A., assignor to The New Method Stove Company, Mansfield, Ohio. Burner-mounting means. 1,740,512; Dec. 24.
- Hoffman, George D., Pasadena, Calif., assignor to Hoffman Specialty Company, Waterbury, Conn. Air-relief and vacuum check valve for steam radiators. 1,708,622; Apr. 9.
- Hoffman, Glenn R., East St. Louis, Ill., assignor, by mesne assignments, to Hoffman-Paulding Company. Braking mechanism, more particularly for motor vehicles. Re17,412; Aug. 20.
- Hoffman, Glenn R., Springfield, Ill., assignor, by mesne assignments, to Hoffman Development Company of Michigan, Detroit, Mich. Spark plug. 1,717,034; June 11.
- Hoffman, Harry and L., Philadelphia, Pa. Kitchen utensil. 1,708,921; Apr. 9.
- Hoffman, Henry, Omaha, Nebr. Wrench. 1,707,856; Apr. 2.
- Hoffman, Henry J., et al. (See Weisbarth, John, assignor.)
- Hoffman, John E., Casper, Wyo. Headlight-controlling apparatus. 1,698,630; Jan. 8.
- Hoffman, Loran L., Milwaukee, Wis. Piston ring. 1,693,546; Jan. 8.
- Hoffman, Louis. (See Hoffman, Harry and L.)
- Hoffman, Louis, St. Paul, Minn., assignor to Steam Pressing Iron Company, Chicago, Ill. Pressing implement. 1,737,047; Nov. 26.
- Hoffman, Martin, Detroit, Mich. Forming cementitious blocks. 1,704,193; Mar. 5.
- Hoffman, Nicholas. (See Brown, I. E., and Hoffman.)
- Hoffman, Otto, Washington County, Oreg. Cultivating implement. 1,722,293; July 30.
- Hoffman-Paulding Company. (See Hoffman, Glenn R., assignor.)
- Hoffman, Rudolph, Cleveland, Ohio. Grid. 1,738,297; Dec. 3.
- Hoffman, Rudolph, Cleveland, assignor to V-W Ventilator Co., Columbus, Ohio. Ventilator. 1,702,117; Feb. 12.
- Hoffman, Rudolph, Cleveland, Ohio. Stove top. 1,710,023; Apr. 23.
- Hoffman Specialty Company. (See Hoffman, George D., assignor.)
- Hoffmann, Alfred, Frankfurt-on-the-Main, Germany. Lock. 1,699,190; Jan. 15.
- Hoffmann, Edward A., assignor to Clinton Motors Corporation, Reading, Pa. Closure for tank openings. 1,735,688; Nov. 12.
- Hoffmann, Edward C., Beaver Dam, Wis. Cabinet stove. Des. 78,624; May 28.
- Hoffmann, Erich, New York, N. Y. Signaling device for automobiles. 1,732,603; Oct. 22.
- Hoffmann, Gottfried, York, Pa. Shuttle. 1,705,290; Mar. 12.
- Hoffmann, Gottlieb C., Washburn, N. Dak. Humidifier. 1,704,289; Mar. 5.
- Hoffmann, Gustave. (See Jonas, Julius, assignor.)
- Hoffmann, Henry L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Control and supervisory system. 1,719,471; July 2.
- Hoffmann, Hugo. (See Luedtke, M. A. G., and Hoffmann.)
- Hoffmann, Marianne, Brooklyn, N. Y. Dress shield. 1,727,287; Sept. 3.
- Hoffmann, Max F. G., Chemnitz, Germany. Indicator. 1,737,657; Dec. 3.
- Hoffmann, Simon, assignor to Schmidt'sche Heissdampf-Gesellschaft mit beschränkter Haftung, Kassel-Wilhelms-höhe, Germany. Cylindrical marine boiler with superheater. 1,740,239; Dec. 17.
- Hoffmann, Ulrich. (See Meyer, K. H., Müller, and Hoffmann.)
- Hoffmann, William J., Brooklyn, N. Y. Heat exchanger. 1,738,706; Dec. 10.
- Hoffmeister, Frederick W., Chicago, Ill., assignor to International Harvester Company. Cutter bar for harvesters. 1,701,755; Feb. 12.
- Hofmire, John S., Auburn, N. Y. Clothes tree. 1,718,691; June 25.
- Hofner, Vernon K. (See Woodruff, E. R., and Hofner.)
- Hoford, William F., near Modoc, Ind. Interlocking joint. 1,735,574; Nov. 12.
- Höfer, Hans. (See Mosch, F. J., and Höfer.)
- Hofmann, Alfred, Fort Lee, and O. Kanis, assignors to Alfred Hofmann Needle Works, Inc., Union City, N. J. Needle-making machine. 1,735,759; Nov. 12.
- Hofmann, Alfred, Needle Works, Inc. (See Hofmann, A., and Kanis, assignors.)
- Hofmann, Friedrich, Mulheim-Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Inlet valve for combustion turbines. 1,716,890; June 11.
- Hofmann, Friedrich, Mulheim-Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Scavenging device for gas turbines. 1,730,210; Oct. 1.
- Hofmann, George, Lyons, Ill. Furnace. 1,727,598; Sept. 10.
- Hofmann, George, Lyons, Ill. Furnace. 1,727,599; Sept. 10.
- Hofmann, Hugo, Barmen, Germany, assignor, by mesne assignments, to American Bemberg Corporation. Recovery of ammonia from the waste waters in the manufacture of artificial filaments by the cuprammonia process. 1,701,110; Feb. 5.
- Hofmann, Hugo, Johnson City, Tenn., assignor to American Bemberg Corporation, New York, N. Y. Recovery of ammonia from dilute solution. 1,701,265; Feb. 5.
- Hofmann, Hugo, Johnson City, Tenn., assignor to American Bemberg Corporation, New York, N. Y. Production of a basic copper sulphate. 1,716,492; June 11.
- Hofmann, Otto U. (See Von Stetten, J. O., and Hofmann.)
- Hofmann, William T., Chicago, Ill., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Apparatus for making prepared roofing. 1,697,464; Jan. 1.
- Hofsäss, Max, Mannheim-Neustadt, Germany. Hydrogenating and treating carbonaceous materials. 1,711,499; May 7.
- Hofsäss, Max, Mannheim-Neckarau, Germany, assignor to the firm of Internationale Bergin-Compagnie voor Olieën Kolen-Chemie, s'Gravenhage, Netherlands. Treatment by pressure and heat of heavy mineral oils and carbon materials. 1,729,943; Oct. 1.
- Hofschneider, Frederic J., Rochester, N. Y. Hypodermic syringe. 1,705,525; Mar. 19.
- Hofstra, Wiebe S., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,742,142; Dec. 31.
- Hogaboom, George B., New Britain, Conn. Buff. 1,716,056; June 4.
- Hogan, Enos W., Emo, Ontario, Canada. Combined cash register and accounting system. 1,711,056; Apr. 30.
- Hogan, Frank R., Verona, Pa. Picture hanger. 1,729,721; Oct. 1.
- Hogan, George M., Chicago, Ill. Handling fluids and solids. 1,713,657; May 21.
- Hogan, Jay J., assignor to The Bryant Electric Company, Bridgeport, Conn. Selective tumbler switch. 1,728,345; Sept. 17.
- Hogan, John F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Calendaring method and apparatus. 1,730,657; Oct. 8.
- Hogan, Patrick J., Claremont, N. H. Quarter adjuster and stretcher for low shoes. 1,716,133; June 4.
- Hogate, Joseph R. (See Spence, L. E., and Hogate.)
- Hogberg, Charles E. (See Hogberg, Felix, assignor.)
- Hogberg, Felix, assignor to one-half to C. E. Hogberg, Tacoma, Wash. Bottle carrier. 1,700,570; Jan. 29.
- Hoge, Edward C., assignor to Lathrop-Hoge Gypsum Construction Company, Cincinnati, Ohio. Roof and floor. 1,721,393; July 16.
- Hoge, Frederick H. (See Jones, W. G., and Hoge.)
- Hoge, Max, assignor to Sefton Manufacturing Corporation, Chicago, Ill. Display box. 1,701,157; Feb. 5.
- Hoge, Smith A., Rices Landing, Pa. Rat trap. 1,726,351; Aug. 27.
- Hoge, Smith A., and F. Lopp, Rices Landing, Pa. Ferry-boat-propulsion device. 1,706,732; Mar. 26.
- Hoge, William M., Morris, Ill. Dump-body hinge. 1,729,511; Sept. 24.
- Hogenson, William, Chicago, assignor to Chicago Vitreous Enamel Product Company, Cicero, Ill. Manufacture of tile and brick. 1,728,934; Sept. 24.
- Hoggard, Scott, assignor to one-half to T. J. McCormick, Detroit, Mich. Insertion-stretching machine. 1,723,781; Aug. 6.
- Hoggatt, Gilbert A., Kenmore, assignor to Certain-Teed Products Corporation, New York, N. Y. Wallboard. 1,709,475; Apr. 16.
- Hoggatt, Wilford B., New London, assignor of one twenty-fifth to O. C. Wolfe, Norwich, Conn. Machinery for the manufacture of fiber boards. 1,713,083; May 14.
- Hogle, John E., Indianapolis, Ind. Oil-well heater. 1,701,884; Feb. 12.
- Hogliund, Peter A., Ironwood, Mich. Edger-gauge attachment. 1,733,019; Oct. 22.



- Hoglund, Theodore J., Gardner, Mass. Toy handcuff. 1,732,225; Oct. 22.
- Hoglund, William. (See Collier, D. R., and Hoglund.)
- Hogner, Einar G. E., Stockholm, Sweden. Mechanical pencil. 1,702,299; Feb. 19.
- Hohberger, John T., Chicago, Ill. Overhead railway. 1,723,352; Aug. 6.
- Hoheln, George C., Clarendon, Va. Stocking drapey. 1,722,918; July 30.
- Hohenstein, Max A., New York, N. Y. Slipper. 1,735,434; Nov. 12.
- Hohl, George I. (See Evans, H. L., and Hohl.)
- Hohlt, Hans I., Santo Domingo, Dominican Republic. Stream motor. 1,740,595; Dec. 24.
- Hohlt, Hans I., Santo Domingo, Dominican Republic. Stream motor. 1,740,596; Dec. 24.
- Hohn, Max P. E., assignor to the firm Universelle Cigarettemaschinen-Fabrik J. C. Muller & Co., Dresden, A., Germany. Cigarette machine. 1,723,510; Aug. 6.
- Hohnkamp, Max. (See Eckhardt, F., and Hohnkamp.)
- Hohnhorst, Ferdinand J., Covington, Ky. Mechanism for truing and dressing grinding wheels. 1,708,575; Apr. 9.
- Hohnhorst, Ferdinand J., and F. J. Kroeger, Covington, Ky. Mechanism for truing and dressing grinding wheels. 1,715,835; June 4.
- Hohnhorst, Ralph, and G. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Click box. 1,707,476; Apr. 2.
- Hohulin, Samuel, deceased, Goodfield, Ill., H. B. Schumacher, administrator. Support for milking pails. 1,739,674; Dec. 17.
- Hois, Louis J., assignor to Geuder, Paeschke & Frey Company, Milwaukee, Wis. Steamer roaster. 1,737,240; Nov. 26.
- Holisington, Harry, Davenport, Iowa. Gun carriage. 1,738,474; Dec. 3.
- Hojnowski, Jakob, Nekoosa, Wis. Aeroplane. 1,720,330; July 9.
- Hojnowski, Jakob, Nekoosa, Wis. Automobile snowplow. 1,728,761; Sept. 17.
- Hojnowski, Jakob, Nekoosa, Wis. Aeronautical vessel. 1,736,263; Nov. 19.
- Hokanson, Carl B., New York, N. Y. Road finder. 1,726,563; Sept. 3.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Manual and power operated typewriter. 1,734,728; Nov. 5.
- Hokanson, Otto A., and J. F. Koca, Woodstock, Ill. Clutch. 1,718,426; June 25.
- Hoke, Frank G. H., Rossebo, and E. E. Collison, assignors to Holcomb & Hoke Mfg. Company, Indianapolis, Ind. Food dispenser. 1,734,466; Nov. 5.
- Hoker-Poker Company. (See Paslay, Robert E., assignor.)
- Boke, Harry A., Altoona, Pa. Side curtain for locomotives. 1,727,062; Sept. 3.
- Hoke, William E., Baltimore, Md., assignor, by mesne assignments, to Dardelet Threadlock Corporation, New York, N. Y. Self-locking coupled screw element. 1,697,118; Jan. 1.
- Hol, John C. (See De Jarnette, Henry W., assignor.)
- Holanbeck, Gustav J., assignor of one-half to F. W. Carnes, Los Angeles, Calif. Back-up stop for trailers. 1,723,237; Aug. 6.
- Holbeck, Austin A., Cleveland, Ohio. Unit pulverizer. 1,724,876; Aug. 13.
- Holbert, Milton R., San Pedro, Calif. Filling spout. 1,709,263; Apr. 16.
- Holbourns, John G., and W. M. Bower, assignors to Lino-type and Machinery Limited, London, England. Mechanically-cast type bar and means for producing same. 1,705,567; Mar. 19.
- Holbrook, A. W., Inc. (See Ritchie, Harry R., assignor.)
- Holbrook, Harris B., Metropolis, Nev. Gate support. 1,704,001; Mar. 5.
- Holbrook, Otto P., Shelbyville, Ind. Pad rack. 1,710,826; Apr. 30.
- Holcomb, Charles R., Chicago, Ill. Legging. 1,710,221; Apr. 23.
- Holcomb & Hoke Mfg. Company. (See Hoke, F., Rossebo, and Collison, assignors.)
- Holcomb & Hoke Manufacturing Company. (See Rossebo, George H., assignor.)
- Holcomb & Hoke Mfg. Co. (See Rossebo, G. H., and Waltman, assignors.)
- Holcomb, J. I., Mfg. Company. (See Anderson, Jesse I., assignor.)
- Holcomb, J. I., Manufacturing Co. (See Dietrich, Harry W., assignor.)
- Holcomb, Leotus E., Luray, Kans. Pinless clothesline. 1,712,345; May 7.
- Holcombe, Homer H., assignor, by mesne assignments, to Holcombe Textile Equipment Co., Inc., Birmingham, Ala. Bunch-builder attachment. 1,733,346; Oct. 29.
- Holcombe, Homer H., assignor to Holcombe Textile Equipment Co., Inc., Birmingham, Ala. Filling bunch builder. 1,736,314; Nov. 19.
- Holcombe Textile Equipment Co. (See Holcombe, Homer H., assignor.)
- Holdeman, Harry R., assignor to J. M. Feldman Co. Inc., Los Angeles, Calif. Wall plate for lighting fixtures or similar articles. Des. 80,121; Dec. 17.
- Holden, Arthur P., Toronto, Ontario, Canada. Oil-burner nozzle. 1,733,964; Oct. 29.
- Holden, Arthur P., and P. Morgan, Toronto, Ontario, Canada. Burner for oil-burning furnaces. 1,719,608; July 2.
- Holden, Arthur P., and P. Morgan, Toronto, Ontario, Canada. Electric circuit maker and breaker. 1,736,198; Nov. 19.
- Holden, Benedict M., assignor to The Gramarben Company, Hartford, Conn. Drawer fastener. 1,738,004; Dec. 3.
- Holden & Brooke Limited. (See Brooke, Robert G., assignor.)
- Holden, Charles D. (See Strickler, Thomas J., assignor.)
- Holden, Crofton, C., assignor to Royal Comb Company, Leominster, Mass. Covered box. 1,720,274; July 9.
- Holden, Fenn M. (See Schwarze, H., and Holden.)
- Holden, Fenn M., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Yielding motor suspension. Re17,474; Oct. 29.
- Holden, Herbert, Boston, Mass. Apparatus for protecting vessels against aerial attacks. 1,713,339; May 14.
- Holden, Herbert, New York, N. Y. Ventilator for automobiles. 1,723,782; Aug. 6.
- Holden, Hiram C., Elmhurst, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Hydrogenating crotonic aldehyde. 1,724,761; Aug. 13.
- Holden, James C., and C. Colliflower, Terre Haute, Ind. Storage battery. 1,720,957; July 16.
- Holden, John A. (See Smith, W. S., Garnett, and Holden.)
- Holden, Joseph B., assignor to Diemoulding Production Company, Incorporated, Canastota, N. Y. Bail handle. 1,730,820; Oct. 8.
- Holden Knitting Company. (See Holden, R. M., and Roberts, assignors.)
- Holden, Roger M., and J. F. Roberts, assignors to Holden Knitting Company, Worcester, Mass. Stocking and making the same. 1,715,657; June 4.
- Holden, Thomas F., assignor of one-third to R. D. Weaver, Washington, D. C., and one-third to C. Vos, New York, N. Y. Feeding fuel to gas generators. 1,724,402; Aug. 13.
- Holden, Timothy N., jr., Brooklyn, N. Y. Dental mirror. 1,722,748; July 30.
- Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Rectifier alarm system. 1,703,146; Feb. 26.
- Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Rectifier alarm system. 1,703,147; Feb. 26.
- Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Carrier-amplitude control in radio systems. 1,706,490; Mar. 26.
- Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Radioreceiver. 1,726,622; Sept. 3.
- Holdener, Frank A. (See Newton, D., and Holdener.)
- Holder, Albert, Los Angeles, Calif. Sign. 1,719,267; July 2.
- Holder, Homer J., Hamlin, Tex. Fuel-burner attachment for stoves and the like. 1,738,184; Dec. 3.
- Holding, Harold T. (See Edwards, J. G., and Holding.)
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Valve mechanism. 1,707,306; Apr. 2.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor. 1,707,307; Apr. 2.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor mechanism. 1,708,175; Apr. 9.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Internal-combustion engine. 1,730,274; Oct. 1.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor outfit. 1,731,572; Oct. 15.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Portable compressor outfit. 1,738,650; Dec. 10.
- Holdsworth, Harry. (See Holdsworth, John W. and H.)
- Holdsworth, John W. and H., New Rochelle, N. Y. Method of and apparatus for forming concrete floors or the like. 1,739,231; Dec. 10.
- Holdsworth, Richard A., Philadelphia, Pa., assignor to The Barrett Company. Shingle. 1,719,111; July 2.
- Hole, Edward S., London, England. Production of stereotypes. 1,726,151; Aug. 27.
- Holes, John, Bellwood, Pa. Smoke-consuming and fuel-saving construction. 1,711,786; May 7.
- Holeton, John E. (See Thomas, J. D., and Holeton.)
- Holgersson, Carl A., Chicago, Ill. Flour sifter. 1,727,829; Sept. 10.
- Holinger, Emil F., assignor to Hudson Heating Systems, Inc., New York, N. Y. Electric heater. Des. 77,834; Feb. 26.
- Holinger, Emil F., assignor, by mesne assignments, to Hudson Electrical Heating Corporation, New York, N. Y. Process and apparatus for preheating feed water. 1,712,559; May 14.
- Holke, Frank A., Rock Island, Ill., assignor, by mesne assignments, to Vec Products Company, Cedar Rapids, Iowa. Automatic adjustment for bearings. 1,710,430; July 2.
- Holladay, Cecil V., Carthage, Tenn. Reverse-speed unit. 1,722,919; July 30.
- Holladay, James A., Douglaston, N. Y., assignor to Union Carbide Sales Company. Concentration of copper ores. 1,706,293; Mar. 19.



- Holland, Clark K., Sacramento, Calif. Wood screw. 1,729,670; Oct. 1.
- Holland, Enoch. (See Flavell, A. T., and Holland.)
- Holland, Fritz, assignor, by mesne assignments, to Braincraft Company, Incorporated, New York, N. Y. Manu-
- Holland Furnace Company. (See Kolla, John P., assignor.)
- Holland Furnace Company. (See Russell, Titus, assignor.)
- Holland, Henry, Cleveland, Ohio. Trolley device. 1,716,057; June 4.
- Holland, Henry, Cleveland, Ohio. Window latch. 1,730,146; Oct. 1.
- Holland, John C., Brooklyn, N. Y. Detachable cuff. 1,737,796; Dec. 3.
- Holland, John F., et al. (See Harden, Walter, assignor.)
- Holland-Letz, Ludwig, Crown Point, Ind., assignor to The Letz Manufacturing Company. Lubricating device for bearings. 1,701,535; Feb. 12.
- Holland-Letz, Ludwig, Crown Point, Ind., assignor to The Letz Manufacturing Company. Grinding mill. 1,707,666; Apr. 2.
- Holland, Newman H., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic diaphragm. 1,700,530; Jan. 29.
- Holland, Newman H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Combined recorder and reproducer. 1,711,680; May 7.
- Holland, Newman H., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound-recording system. 1,711,681; May 7.
- Holland, Newman H., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic diaphragm. 1,719,472; July 2.
- Holland, P. C., et al. (See Baker, Elbridge, assignor.)
- Holland, Roy E. (See Boker, Vitus A., assignor.)
- Holland, Roy E. (See Boker, Vitus A., assignor.)
- facturing shoes with adhesively-attached soles. 1,726,483; Aug. 27.
- Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-container construction. 1,697,063; Jan. 1.
- Holland, Walter E., assignor to Philadelphia Storage Company, Philadelphia, Pa. Demountable battery. 1,703,735; Feb. 26.
- Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Asymmetric cell. 1,707,857; Apr. 2.
- Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-case construction. 1,733,878; Oct. 29.
- Holland, Walter H. (See Coberly, C. J., Wulff, and Holland.)
- Holland, Wilford B. (See Bradbury, E. A. and Holland.)
- Holland, William F., et al. (See Harden, Walter, assignor.)
- Holland, William H., Manchester, England. Knitted articles or fabrics and the manufacture thereof. 1,740,650; Dec. 24.
- Holland, William W., Alton, Ill., assignor to Standard Oil Company, Whiting, Ind. Distillation of hydrocarbon oils. 1,723,698; Aug. 6.
- Hollander, A., and Son, Inc. (See Huss, C., and Tournoy, assignors.)
- Hollander, Aladar, Berkeley, Calif., assignor, by mesne assignments, to Byron Jackson Pump Co. Bearing-lubricating device. 1,707,612; Apr. 2.
- Hollander, Aladar, Berkeley, Calif., assignor, by mesne assignments, to Byron Jackson Pump Co. Overhung centrifugal pump and gland. 1,707,613; Apr. 2.
- Hollander, Aladar, Berkeley, Calif., assignor, by mesne assignments, to Byron Jackson Pump Co. Oil-fraction pumping apparatus. 1,714,784; May 28.
- Hollander, Aladar, Berkeley, and W. L. Forward, Oakland, Calif., assignors, by mesne assignments, to Byron Jackson Pump Co. Automatic control mechanism for fire trucks and the like. 1,725,273; Aug. 20.
- Hollander, Charles S., Philadelphia, and E. L. Helwig, Bristol, Pa. Reactive packing for metallurgical refractories. 1,741,128; Dec. 24.
- Hollander, Edward, assignor to The Kny-Scheerer Corporation of America, New York, N. Y. Irrigation-control device. 1,710,540; Apr. 23.
- Hollander & Son, Inc. (See Huss, C., and Tournoy, assignors.)
- Hollenback, George M., Los Angeles, Calif. Casting. 1,731,573; Oct. 15.
- Hollenbeck, Harold W., Kirkland, assignor to Durable Mat Company, Seattle, Wash. Floor mat. Des. 77,960; Mar. 12.
- Hollenbeck, Harold W., Kirkland, assignor to Durable Mat Company, Seattle, Wash. Link-mat-assembling machine. 1,716,378; June 11.
- Holler, Carl D., Seattle, Wash. Seaplane float. 1,723,182; Sept. 17.
- Hollestelle, John A., Canova, S. Dak. Restraining device and holder. 1,705,115; Mar. 12.
- Holley, Earl. (See Candler, De Forest W., assignor.)
- Holley, Earl. (See Kimber, Harry P., assignor.)
- Holley, George M. (See Eynon, George A., assignor.)
- Holley, George M. (See Petit, Henry B., assignor.)
- Holley, George M. (See Udale, Stanley M., assignor.)
- Hollick, Frederick W., Gourack, Scotland, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Stoker-driving mechanism. 1,724,711; Aug. 13.
- Hollier, Lucy E., Monroe, Wash. Hairdressing device. 1,709,434; Apr. 16.
- Hollingshead, Everett H., Dayton, Tex. Line marker. 1,726,832; Sept. 3.
- Hollingsworth, Carl W., assignor, by mesne assignments, to O. G. Herm, Marshalltown, Iowa. Clutch mechanism. 1,731,626; Oct. 15.
- Hollingsworth, Carl W., assignor, by mesne assignments, to O. G. Herm, Marshalltown, Iowa. Clutch mechanism. 1,740,735; Dec. 24.
- Hollingsworth, Edward, Dobcross, England, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shedding mechanism for looms for weaving. 1,726,831; Sept. 3.
- Hollingsworth, James H. (See Moore, J. T., and Hollingsworth.)
- Hollingsworth, William, Baltimore, Md. Bronzing machine. 1,718,419; June 25.
- Hollis, B. B. (See Tuthill, Henry G., assignor.)
- Hollis High Speed Cutter Block Ltd. (See Hollis, Robert, assignor.)
- Hollis, Olive L., et al., executors. (See Hollis, Otis A.)
- Hollis, Otis A., deceased, Knoxville, Pa.; O. L. Hollis and J. F. Sankey, executors. Concrete construction. 1,703,819; Feb. 26.
- Hollis, Robert, Waukegan, assignor to Hollis High Speed Cutter Block Ltd., London, England. High-speed cutter block for woodworking and like machines. 1,705,251; Mar. 12.
- Hollman, Peter I., assignor to Geo. D. Roper Corporation, Rockford, Ill. Kitchen heater. 1,711,201; Apr. 30.
- Hollnagel, Herbert P., Swampscott, Mass., assignor to General Electric Company. Illuminating unit. 1,706,161; Mar. 19.
- Hollnagel, Herbert P., Swampscott, Mass., assignor to General Electric Company. Floodlight. 1,718,560; June 25.
- Hollnagel, Herbert P., Swampscott, Mass., assignor to General Electric Company. Removing coatings from conductors. 1,726,623; Sept. 3.
- Hollnagel, Herbert P., Swampscott, Mass., assignor to General Electric Company. Apparatus for shaping silica. 1,734,904; Nov. 5.
- Hollnagel, Theodore C., Milwaukee, Wis., assignor, by mesne assignments, to The Hughes-Keenan Company, Mansfield, Ohio. Truck. 1,717,843; June 18.
- Holloman, Fred A., Phoenix, Ariz. Radiator cap. Des. 79,718; Oct. 29.
- Hollow Ball Company. (See Rutter, Albert M., assignor.)
- Holloway, George H., Montreal, Quebec, Canada. Locomotive-driving-box wedge adjuster. 1,703,585; Feb. 26.
- Holloway, John J., assignor to The Stanley Works, New Britain, Conn. Casing for an electric drill. Des. 79,370; Sept. 10.
- Holloway, Joseph C., New Orleans, and H. A. Schulz, Algiers, La., assignors to American Can Company, New York, N. Y. Double-body tearing-strip can. 1,734,293; Nov. 5.
- Hollowell, Everett, Kansas City, Kans. Locomotive steam-pipe-jacket packing. 1,729,944; Oct. 1.
- Hollstein, Paul G., Carlstadt, N. J., assignor to J. M. Lehmann Company, Inc., New York, N. Y. Filter press. 1,709,349; Apr. 16.
- Hollwitz, Ludwig A., Brooklyn, N. Y. Radio bulb socket. 1,697,503; Jan. 1.
- Holly, Ludwig F., Madison, N. J., assignor to Holly Pneumatic Systems, Inc., New York, N. Y. Apparatus and method for loading loose bulk cargoes. 1,708,176; Apr. 9.
- Holly Pneumatic Systems, Inc. (See Holly, Ludwig F., assignor.)
- Holm, Axel V. (See Elfversson, John H., assignor.)
- Holm, Carl J., Trondhjem, Norway. Wire clamp. 1,729,945; Oct. 1.
- Holm, Charles A. and M. T. Gertson, Wis. Sharpener for feed cutters. 1,738,005; Dec. 3.
- Holm, George E., Wilkinsburg, Pa. Photographic-printing machine. 1,724,933; Aug. 20.
- Holm, Karl A. B. (See Viksten, E. G., and Holm.)
- Holm, Martin. (See Holm, Charles A. and M.)
- Holm, Sigurd, West Allis, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. Des. 77,411; Jan. 8.
- Holman, Arthur J., Boston, Mass. Automatic variable friction drive. 1,721,734; July 23.
- Holman, Arthur T. (See Holman, John L. and A. T.)
- Holman, Arthur T., and P. M. Holman, Camborne, assignors to Holman Brothers Limited, Camborne, Cornwall, England. Rock drill and like reciprocating tool and valve mechanism therefor. 1,722,090; July 23.
- Holman Brothers Limited. (See Holman, Arthur T. and P. M., assignors.)
- Holman Brothers Limited. (See Holman, John L. and A. T., assignors.)
- Holman, Charles H., and O. W. Hooppaw, St. Louis, Mo. Coating for wood, metal, or other surfaces and making the same. 1,734,130; Nov. 5.
- Holman, John L. and A. T., Camborne, assignors to Holman Brothers Limited, Camborne, Cornwall, England. Fluid-operated reciprocating machine tool. 1,700,052; Jan. 22.
- Holman, Leslie A., Waltham, Mass. Device for applying adhesive. 1,711,732; May 7.
- Holman, Percy M. (See Holman, Arthur T. and P. M.)
- Holman, Rudolph, assignor to The Vortex Mfg. Co., Chicago, Ill. Automatic stock counter. 1,705,766; Mar. 19.



- Holmbergs, Carl, Mekaniska Verkstads Aktiebolag. (See Anderberg, Anders, and E. A., assignors.)
- Holmdahl, Arthur C., Alton, assignor to Western Cartridge Company, East Alton, Ill. Bottle cap. 1,720,835; July 16.
- Holmes, Alfred E., assignor of one-half to W. H. Plunkett, Chicago, Ill. Soap dispenser. 1,720,044; July 9.
- Holmes, August. (See Cobb, E. B., and Holmes.)
- Holmes, August, Newark, N. J., assignor to Standard Oil Development Company. Process and apparatus for making white petrolatum. 1,733,597; Oct. 29.
- Holmes, Benjamin, Woodbury, N. J., assignor to Morrell Mills, Inc., Philadelphia, Pa. Tapestry fabric and making the same. 1,736,532; Nov. 19.
- Holmes, Bradford B., New York, N. Y. Restraining the rebound of pneumatic tires. 1,704,002; Mar. 5.
- Holmes, Bradford B., Stonington, Conn. Electric motor. 1,708,093; Apr. 9.
- Holmes, Bradford B., New York, N. Y. Snubber. 1,740,460; Dec. 24.
- Holmes, Bradford B., and H. F. Parker, New York, N. Y. Windshield wiper and fluid motor therefor. 1,731,048; Oct. 8.
- Holmes, Charles G., Milwaukee, Wis. Grate. 1,730,460; Oct. 8.
- Holmes Disappearing Bed Company. (See Ellsworth, Ross J., assignor.)
- Holmes Disappearing Bed Company. (See Thompson, Frank F., assignor.)
- Holmes Disappearing Bed Company. (See Thompson, F. F., and Ellsworth, assignors.)
- Holmes, Earl K., assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio. Polishing machine. 1,709,171; Apr. 16.
- Holmes, E. & B., Machinery Co. (See Beugler, Edwin F., assignor.)
- Holmes, Edward, Glastonbury, Conn. Spoon or similar article. Des. 80,082; Dec. 10.
- Holmes, Edward C., Cincinnati, Ohio. Spirally-fluted spike. 1,698,951; Jan. 15.
- Holmes, Edward L., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y. Integrating apparatus. 1,702,403; Feb. 19.
- Holmes, Edward L., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y. Electrolytic relay system. 1,702,404; Feb. 19.
- Holmes, Edward L., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y. Master compass. 1,702,405; Feb. 19.
- Holmes, Edward L., assignor to Holmes Navigating Apparatus Co., Inc., New York, N. Y. Navigating apparatus and method. 1,704,250; Mar. 5.
- Holmes, Edward L., New York, N. Y., assignor to Holmes Navigating Apparatus Co., Inc. Automatic deviation and distance integrating apparatus. 1,741,713; Dec. 31.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Cloth board for looms. 1,703,883; Mar. 5.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Releasing device for take-up driving mechanism. 1,711,600; May 7.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Laterally-adjustable thread cutter. 1,715,923; June 4.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Needle motion for Axminster looms. 1,734,091; Nov. 5.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off for looms. 1,739,232; Dec. 10.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off for looms. 1,741,300; Dec. 31.
- Holmes, Elbridge R., Worcester, Mass., and M. R. Abrial, Danbury, Conn., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Let-off for looms. 1,703,882; Mar. 5.
- Holmes Electric Protective Company. (See Roe, William C., assignor.)
- Holmes, Ernest, Company. (See Cline, E. E., and Holmes, assignors.)
- Holmes, Ernest, Company. (See Holmes, Ernest W., assignor.)
- Holmes, Ernest W. (See Cline, E. E., and Holmes.)
- Holmes, Ernest W., assignor to Ernest Holmes Company, Chattanooga, Tenn. Wrecking crane. 1,732,047; Oct. 15.
- Holmes, Forest. (See Hart, B., and Holmes.)
- Holmes, Frank G., assignor to Lenox, Inc., Trenton, N. J. Plate or similar article. Des. 79,816; Nov. 5.
- Holmes, Frank W., Chicago, Ill. Fan. 1,706,608; Mar. 26.
- Holmes, Frederick A., Iowa Falls, Iowa. Luggage carrier for automobiles. 1,733,347; Oct. 29.
- Holmes, George H., Graniteville, S. C. Identification device for automobiles. 1,699,191; Jan. 15.
- Holmes, Grant. (See Hegeler, J. W., and Holmes.)
- Holmes, Harold W., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,729,780; Oct. 1.
- Holmes, Harold W., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinder. 1,733,090; Oct. 22.
- Holmes, Harold W., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinder for shouldered work. 1,733,091; Oct. 22.
- Holmes, Harold W., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,733,095; Oct. 22.
- Holmes, Harold W., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,733,097; Oct. 22.
- Holmes, Harry N. (See Hilditch, T. P., and Wheaton, assignor.)
- Holmes, Harry N., Oberlin, Ohio. Impregnation of porous gels with metals or other insoluble material. 1,739,306; Dec. 10.
- Holmes, Harry N., Oberlin, Ohio. Impregnation of porous gels with a solid material. 1,739,307; Dec. 10.
- Holmes, Henry H. (See Wildt, E., and Holmes.)
- Holmes, Henry R., assignor to The R. Thomas & Sons Company, East Liverpool, Ohio. Suspension insulator fittings. 1,734,167; Nov. 5.
- Holmes, Henry S., New York, assignor to T. E. Murray, Brooklyn, N. Y. Electric system. 1,698,723; Jan. 15.
- Holmes, John R. (See Roberts, T. H., and Holmes.)
- Holmes, Le Roy L., Mabton, Wash. Safety device for automobiles. 1,720,076; July 9.
- Holmes, Louis D., and J. S. Townsend, assignors to Whiting Corporation, Harvey, Ill. Transfer platform. 1,741,772; Dec. 31.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,702,828; Feb. 19.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,704,664; Mar. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,704,665; Mar. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Elevating mechanism. 1,704,666; Mar. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,704,668; Mar. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,704,669; Mar. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,704,670; Mar. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Power drum mechanism. 1,708,177; Apr. 9.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Explosionproof mining apparatus. 1,720,364; July 9.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Transport truck. 1,725,081; Aug. 20.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,725,140; Aug. 20.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,725,141; Aug. 20.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,729,779; Oct. 1.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,729,781; Oct. 1.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,734,296; Nov. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,734,945; Nov. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,734,946; Nov. 5.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Traction mechanism. 1,740,694; Dec. 24.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,741,112; Dec. 24.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,741,129; Dec. 24.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,741,131; Dec. 24.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,742,168; Dec. 31.
- Holmes Navigating Apparatus Co. (See Holmes, Edward L., assignor.)
- Holmes Products, Inc. (See Martin, Stephen M., assignor.)
- Holmes, Richard D., Hamtramck, Detroit, Mich. Aeroplane. 1,721,342; July 16.



- Holmes, T. J., Company. (See Holmes, Thomas J., assignor.)
- Holmes, Thomas C., San Francisco, Calif., assignor to O. J. Schroeter, St. Louis, Mo. Tool for removing dandelions and similar weeds. 1,725,191; Aug. 20.
- Holmes, Thomas J., assignor to T. J. Holmes Company, Inc., Everett, Mass. Atomizer. 1,732,513; Oct. 22.
- Holmes, William, Parkersburg, W. Va. Road scraper. 1,711,387; Apr. 30.
- Holmes, William K., Great Neck, N. Y. Magazine pencil. 1,703,038; Feb. 19.
- Holmgren, Eric O. (See Szekely, O. E., and Holmgren.)
- Holmgren, Julius H., San Antonio, Tex. Cattle guard. 1,704,085; Mar. 5.
- Holmgren, Eric A., Lynn, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-upper-shaping machine. 1,711,946; May 7.
- Holmgren, Per F., Brooklyn, N. Y. Rotary burner. 1,699,067; Jan. 15.
- Holmgren, Eric A., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon blanks. 1,725,758; Aug. 27.
- Holmgren, Eric A., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. 1,726,833; Sept. 3.
- Holmquist, Carl W., Woodlawn, Pa., assignor, by mesne assignments, to Arthur G. McKee & Company, Cleveland, Ohio. Valve structure. 1,727,644; Sept. 10.
- Holmquist, Oscar B., sr., Amory, Miss. Bell-ringer valve. 1,700,053; Jan. 22.
- Holmquist, Johan E., Djursholm, and K. A. and E. H. Widgren, Lidings, Sweden. Container for gramophone needles. 1,715,455; June 4.
- Holmstrom, Axel, Monte Carlo, Monaco. Etching machine. 1,716,270; June 4.
- Holmström, Carl H., Johanneberg, Sodra Vagen, Gottenborg, Sweden. Curtain hook. 1,698,796; Jan. 15.
- Holmstrom, Emil, Two Harbors, Minn. Wind-deflector signal lamp. 1,726,895; Sept. 3.
- Holophane Company. (See Berry, Percy W., assignor.)
- Holophane Company. (See Dorey, William A., assignor.)
- Holophane Company. (See Rolph, Thomas W., assignor.)
- Holophane Company. (See Rolph, T. W., and Dorey, assignors.)
- Holophane Company. (See Rosebraugh, Wilson, assignor.)
- Holrib Incorporated. (See Loucks, James F., assignor.)
- Holroyd, George, Halifax, England. Adjustable sparking plug. 1,714,463; May 21.
- Holsberg, George A. (See Bianchi, V. L., and Holsberg.)
- Holslag, Claude J., South Orange, assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Welding generator. 1,719,112; July 2.
- Holslag, Claude J., South Orange, assignor to Electric Arc Cutting & Welding Company, Newark, N. J. Welding tool. 1,719,113; July 2.
- Holslag, Claude J., East Orange, assignor to Electric Arc Cutting and Welding Company, Newark, N. J. Arc-welding system. 1,740,983; Dec. 24.
- Holst, Gilles, and E. Oosterhuis, assignor to Naamloose vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electric discharge tube. 1,701,849; Feb. 12.
- Holst, Gilles, J. Bergmans, and C. Bol, assignors to Naamloose Vennootschap Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Leading-in conductor. 1,734,809; Nov. 5.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 78,756; June 18.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 78,757; June 18.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 78,758; June 18.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 78,759; June 18.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 78,760; June 18.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 78,761; June 18.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 78,927; July 9.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 79,233; Aug. 20.
- Holstein, Adolph M., Syracuse, N. Y. Clock case. Des. 79,556; Oct. 8.
- Holstein, Adolph M., assignor to Syracuse Ornamental Company, Syracuse, N. Y. Clock case. Des. 78,928; July 9.
- Holstein, Frederick C., Herman, Nebr. Flood-gate latch. 1,710,982; Apr. 30.
- Holst, John V., assignor to Deere & Company, Moline, Ill. Gang plow. 1,713,829; May 21.
- Holtson, James B., assignor to Holtson Manufacturing Corporation, Baltimore, Md. Grease gun. 1,699,293; Jan. 15.
- Holt, Cornelius E., Lectonia, Ohio. Breast-auger T. 1,709,173; Apr. 16.
- Holt, Currey M. (See Scarbrough, A. P., and Holt.)
- Holt, Donald, Chicago, Ill. Lighting fixture and the like. 1,717,035; June 11.
- Holt, Donald, Chicago, Ill. Lighting fixture and the like. 1,717,106; June 11.
- Holt, Donald, assignor to Edward Holt Company, Chicago, Ill. Lighting fixture and the like. 1,741,301; Dec. 31.
- Holt, Edward, Company. (See Holt, Donald, assignor.)
- Holt, Francis A. (See Steiger, B. F., Heppner, and Holt.)
- Holt, Harold E. S., London, England. Apparatus for lowering mail bags and other loads from aircraft. 1,709,264; Apr. 16.
- Holt, Henry K. (See Hornbeck, E. R., and Holt.)
- Holt, John W., Cleveland, Ohio. Electric welding mechanism. 1,700,408; Jan. 29.
- Holt, Klate M., D. F. Warner, and E. V. Pollard, Lynn, Mass., assignors to General Electric Company. Elastic-fluid turbine. 1,721,394; July 16.
- Holt, Lafayette, Burlington, N. C. Noncorrosive yarn beam. 1,719,703; July 2.
- Holt-Lyon Co. Inc. (See Teetsell, Harold F., assignor.)
- Holt, Oliver D., and R. Young, Braman, Okla. Jar spout. 1,709,265; Apr. 16.
- Holt, Ralph O., Princess Bay, assignor of forty per cent to H. C. Fahrenkrug, Brooklyn, N. Y. Automatic stopping device for printing presses and paper-folding machines. 1,713,757; May 21.
- Holt, Raymond B., Bloomfield, N. J., assignor to Factory Service Equipment Co. Costumer ladder truck. 1,701,951; Feb. 12.
- Holt, Robert W., assignor to Fusion Welding Corporation, Chicago, Ill. Cutting electrode. 1,738,246; Dec. 3.
- Holt, Stephen L., and G. H. Kimball, Bowdoinham, Me. Chimney fire extinguisher. 1,719,371; July 2.
- Holte, Harold O., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electroresponsive device. 1,737,761; Dec. 3.
- Holter, Alfred, Brevik, Norway. Impregnating paper for bag tubes. 1,714,222; May 21.
- Holthaus, Gottlieb, Duisburg-Ruhrort, assignor to Siemens-Schuckertwerke A. G., Berlin-Siemensstadt, Germany. Heat accumulator. 1,705,975; Mar. 19.
- Holthaus, Harry B. (See Ernst, M., and Holthaus.)
- Holthouse, Harry B., Chicago, Ill. High-frequency oscillating circuits. 1,710,541; Apr. 23.
- Holtkamp, Otto, Berlin, German. Mattress with adjustable back rest and leg support. 1,703,237; Feb. 26.
- Holtom, William H., Jackson, Mich., assignor to Franklin Railway Supply Company, New York, N. Y. Locomotive auxiliary engine-reversing mechanism. 1,723,651; Aug. 6.
- Holtom, Frank, & Co. (See Arthur, Paul, assignor.)
- Holtom, Frank, & Company. (See Charlton, Harry J., assignor.)
- Holton, John H., Norristown, Pa. Process for and apparatus for the treatment with fluids of yarns in chain warp and analogous form. 1,708,417; Apr. 9.
- Holton, Frank, & Co. (See Grant, William H., assignor.)
- Holtschmit, Friedrich, Berlin, Germany. Moving staircase. 1,741,842; Dec. 31.
- Holtson, James B., Baltimore, Md. Tank vent. 1,719,932; July 9.
- Holtson, James B., assignor to Holtson Manufacturing Corporation, Baltimore, Md. Tank fill box. 1,738,069; Dec. 3.
- Holtson Manufacturing Corporation. (See Holtson, James B., assignor.)
- Holtz, Abraham, Bronx, N. Y. Fringe. Des. 80,031; Dec. 3.
- Holtz, Charles, assignor to C. Hennecke Company, Milwaukee, Wis. Sidewalk door. 1,724,023; Aug. 13.
- Holtz, Frederick C. (See Lanphier, R. C., and Holtz.)
- Holtz, Frederick C., assignor to Sangamo Electric Company, Springfield, Ill. Polarized relay. 1,722,749; July 30.
- Holtz, George H., Oxford, Wis. Corn binder. 1,741,938; Dec. 31.
- Holtz, John B., Los Angeles, Calif., assignor to Invention Development Corporation, Carson City, Nev. Advertising pedestal for clock and weighing machine. Re-79,966; Nov. 26.
- Holtz, John B., Los Angeles, Calif., assignor to Invention Development Corporation, Carson City, Nev. Advertising column. Des. 79,965; Nov. 26.
- Holtz, John B., Los Angeles, Calif., assignor to Invention Development Corporation, Carson City, Nev. Advertising pedestal for clock and weighing machine. Des. 80,032; Dec. 3.
- Holzel, Johannes, Munich, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Third-rail guard. 1,739,591; Dec. 17.
- Holtzer-Cabot Electric Company, The. (See Duross, John, assignor.)
- Holtzer-Cabot Electric Company, The. (See Kennedy, Carlton L., assignor.)
- Holtzman, George W., assignor to Pretz-Sticks Baking Company, Myerstown, Pa. Apparatus for making pretzel-stick dough blanks. 1,701,850; Feb. 12.
- Holtzman, John, New York, N. Y. Sash fastener. 1,727,977; Sept. 10.
- Holtzman, John, New York, N. Y. Aerial toy drive. 1,731,047; Oct. 8.
- Holtzman, John, New York, assignor of one-half to B. Roman, New York, N. Y. Self-stopping razor. 1,729,722; Oct. 1.
- Holub, Charles, Brisbane, Queensland, Australia. Manufacture of artificial-light filters. 1,730,574; Oct. 8.
- Holub, Charles J., assignor to The W. E. Lannack Company, Columbus, Ohio. Furnace bonnet. 1,733,986; Oct. 29.
- Holworthy, John C., Oakland, Calif. Gas-engine-oil advertising device. 1,699,238; Jan. 15.



- Holzach, Karl, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Mordant trisazo dyestuff. 1,728,996; Sept. 24.
- Holzappel, Eduard. (See Braunsdorf, O., Holzappel, and Nawlasky.)
- Holzappel, Eduard, and O. Braunsdorf, Höchst-on-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Producing vat dyestuffs of the isodibenzanthrone series. 1,736,081; Nov. 19.
- Holzberg, Wilhelm. (See Talalay, J., and Holzberg.)
- Holzer, Hiram A., Pittsburg, Kans., assignor to United Iron Works, Inc., Kansas City, Mo. Long-wall conveyor. Re17,380; July 23.
- Holzhauer, Alois, jr., Milwaukee, Wis. Heating attachment for windshields. 1,721,663; July 23.
- Holzman, Otto. (See Weith, A. J., and Holzman.)
- Holzscheiter, Fritz. (See Ruttiman, P., sr., and Holzscheiter.)
- Holzverkehlungs-Industrie Aktien-Gesellschaft. (See Roka, Koloman, assignor.)
- Holzwarth Gas Turbine Co. (See Hofmann, Friedrich, assignor.)
- Holzwarth Gas Turbine Co. (See Holzwarth, Hans, assignor.)
- Holzwarth Gas Turbine Co. (See Schilling, Rudolph, assignor.)
- Holzwarth Gas Turbine Co. (See Sedlmeir, Michael, assignor.)
- Holzwarth, Hans, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Nozzle valve for internal-combustion turbines. 1,700,700; Jan. 29.
- Holzwarth, Hans, Mulheim, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Valve for gas turbines. 1,731,778; Oct. 15.
- Holzwarth, Hans, Dusseldorf, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Combustion turbine. 1,741,939; Dec. 31.
- Holzworth, Ernest H., Buffalo, N. Y. Blast-furnace tuyere. 1,738,901; Dec. 10.
- Homan, John G., Steubenville, Ohio. Medical capsule. 1,707,762; Apr. 2.
- Homan, Millard G. (See Wilson, W. E., Gleyre, and Homan.)
- Homan, Rex, Hesperia, assignor to C. G. Willett, Grand Rapids, Mich. Snowscraper. 1,719,886; July 9.
- Homan, William C., Meriden, Conn., assignor to L. T. Wilcox, Peekskill, N. Y. Stove. 1,700,764; Feb. 5.
- Homborg, Felix, and M. Landecker, Barmen, Germany, assignors to American Nuplax Corporation, New York, N. Y. Production of colored molded masses from blood. 1,724,088; Aug. 13.
- Homborg, Felix, and M. Landecker, Barmen, Germany, assignor to American Nuplax Corporation, New York, N. Y. Production of molded masses. 1,732,015; Oct. 15.
- Homborg, Felix, and M. Landecker, Barmen, Germany, assignors to American Nuplax Corporation, New York, N. Y. Production of molded masses from blood. 1,732,016; Oct. 15.
- Hombrecher, Albert, Barmen, Germany. Crown beater for braiding and lace machines. 1,732,720; Oct. 22.
- Home Incinerator Co. (See Schuetz, Albert A., assignor.)
- Home Safety Corporation. (See Bierfeld, Albert S., assignor.)
- Homer, George L. (See Harshaw, W. J., and Homer.)
- Homesley, Edward, and R. Roper, Leon, Kans. Regulator and safety device. 1,712,346; May 7.
- Honiak, George, Newmarket, N. H. Tire-rim holder and adjuster. 1,712,347; May 7.
- Homolka, Frederick, Hale Barnes, England. Weatherproof luminous sign. 1,728,896; Sept. 3.
- Honberger, Frank S., Los Angeles, Calif. Protected concrete block for paving and the like. 1,729,256; Sept. 24.
- Hondeville, August L., assignor of one-third to F. M. Fagundes, jr., and one-third to C. A. Verege, Merced, Calif. Deodorizing dust wheel. 1,714,223; May 21.
- Honey, Charles F., Cleveland, Ohio. Cataphoric electrode. 1,740,240; Dec. 17.
- Honeyman, Henry W., jr., and J. J. Hoey, Providence, R. I. Double tentering machine. 1,732,089; Oct. 15.
- Honig, Frank, Oak Park, assignor to Cyclo Corporation, Chicago, Ill. Mechanism for and method of coiling wire or the like. 1,741,056; Dec. 24.
- Honigbaum, Harry H., New York, N. Y. Container. 1,724,589; Aug. 13.
- Honigmann, Hans, East Cleveland, assignor to The Chandler and Price Company, Cleveland, Ohio. Sheet-drying mechanism. 1,717,608; June 18.
- Honigmann, Hans, assignor to The Chandler and Price Company, Cleveland, Ohio. Drive mechanism. 1,724,588; Aug. 13.
- Honigmann, Hans, East Cleveland, assignor to The Chandler and Price Company, Cleveland, Ohio. Variable-speed drive. 1,739,150; Dec. 10.
- Honigmann, Ludwig, Eichlerhof, Germany. Continuous drying or distillation of fine granular masses. 1,704,796; Mar. 12.
- Honigmann, Ludwig, Bad Tolz, and F. Bartling, Munich, Germany. Revolving ring-hearth oven. 1,697,006; Jan. 1.
- Honigmann, Ludwig, Bad Tolz, and F. Bartling, Munich, Germany. Drying and grading plants for granular water-containing materials. 1,705,617; Mar. 19.
- Honywill, Albert W., jr., Detroit, Mich. Steam trap. 1,698,097; Jan. 8.
- Hood, Albert G. (See Sommer, A., and Hood.)
- Hood, Arthur M., et al., trustees. (See Carter, Edwin M., assignor.)
- Hood, Frank R. (See Glenn, J. W., Hood, and Schwab.)
- Hood, Harry L. (See Stewart, W. C., and Hood.)
- Hood, Harry M., Chicago, Ill., assignor to Featheredge Rubber Company, Inc. Joining member for automobile windows. 1,727,771; Sept. 10.
- Hood, Hubert L., Des Moines, Iowa. Coaster. 1,722,574; July 30.
- Hood, John H., Philadelphia, Pa. Toy pistol. 1,731,049; Oct. 8.
- Hood, Jennings, Lansdowne, Pa. Toby jug. Des. 79,928; Nov. 19.
- Hood, Jennings, Lansdowne, Pa. Toby jug. Des. 79,929; Nov. 19.
- Hood, Ralph O., Danvers, assignor to Walter Channing, Boston, Mass. Telephone system. 1,697,007; Jan. 1.
- Hood Rubber Company. (See Bleher, W. C., Willis, and Wentworth, assignors.)
- Hood Rubber Company Inc. (See Burnham, Lawrence H., assignor.)
- Hood Rubber Company. (See Burnham, L. H., and Drechsler, assignors.)
- Hood Rubber Company. (See Davidson, James H., assignor.)
- Hood Rubber Company. (See Drechsler, Arthur, assignor.)
- Hood Rubber Company. (See Fowler, Fred D., assignor.)
- Hood Rubber Company. (See Gaughan, John J., assignor.)
- Hood Rubber Company. (See Glidden, A. A., and Drechsler, assignors.)
- Hood Rubber Company. (See Glidden, A. A., and Hickler, assignors.)
- Hood Rubber Company. (See Glidden, A. A., and Knowland, assignors.)
- Hood Rubber Company. (See Glidden, A. A., Knowland, and Davis, assignors.)
- Hood Rubber Company. (See Glidden, A. A., Knowland, and Greim, assignors.)
- Hood Rubber Company. (See Knowland, T. M., and Drechsler, assignors.)
- Hood Rubber Company. (See Knowland, T. M., and Hands, assignors.)
- Hood Rubber Company. (See Page, Sherwood, assignor.)
- Hood Rubber Company. (See Perrault, J. E., and Schroeder, assignors.)
- Hood Rubber Company. (See Rice, Robert L., assignor.)
- Hood Rubber Company. (See Williams, Archibald, jr., assignor.)
- Hood Rubber Company. (See Wullenweber, Ernest A., assignor.)
- Hood Rubber Company. (See Wydom, Herbert H., assignor.)
- Hood, Samuel B., Minneapolis, Minn. Multiple-conductor aerial cable. 1,721,218; July 16.
- Hood, Samuel B., Minneapolis, Minn., assignor to Line Material Company, South Milwaukee, Wis. Street-lighting system. 1,716,271; June 4.
- Hood, William L., Lexington, Mass. Corn popper. 1,733,301; Oct. 29.
- Hoodless, William H., Philadelphia, Pa. Crusher for raw sugar in bags. 1,728,969; Sept. 24.
- Hoofnagle, William T., assignor to The Comfo Electric Iron Company, Glen Ridge, N. J. Safety plug for flatirons. 1,705,524; Mar. 19.
- Hoofnagle, William T., assignor to The Comfo Electric Iron Company, Glen Ridge, N. J. Safety plug for flatirons. 1,705,730; Mar. 19.
- Hoofnagle, William T., Glen Ridge, N. J. Talking device for dolls, etc. 1,727,645; Sept. 10.
- Hoogerhyde, James, Belmont, assignor to Imperial Metal Products Company, Grand Rapids, Mich. Steady rest. 1,729,111; Sept. 24.
- Hook, August B., assignor to Rosenstein Bros. & Hook, New York, N. Y. Fabric. Des. 79,082; July 30.
- Hook, August B., assignor to Rosenstein Bros. & Hook, New York, N. Y. Fabric. Des. 79,083; July 30.
- Hook, August B., assignor to Rosenstein Bros. & Hook, New York, N. Y. Fabric. Des. 79,084; July 30.
- Hook, August B., assignor to Rosenstein Bros. & Hook, New York, N. Y. Fabric. Des. 79,085; July 30.
- Hook, August B., assignor to Rosenstein Bros. & Hook, New York, N. Y. Fabric. Des. 79,371; Sept. 10.
- Hook, C. Howard. (See Mercur, Nathan L., assignor.)
- Hook, Walter W., Los Angeles, Calif. Focusing hood for cameras. 1,724,089; Aug. 13.
- Hooke, Fred G., and J. J. Flynn, assignor of one-fourth to G. W. Pearson, Lowell, Mass. Machine for cutting skeleton soles. 1,719,511; July 2.
- Hooker, Albert H., and W. J. Marsh, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Purifying caustic soda. 1,733,879; Oct. 29.
- Hooker Electrochemical Company. (See Hooker, A. H., and Marsh, assignors.)
- Hooker Electrochemical Company. (See Rowland, Jasper M., assignor.)
- Hooker Electrochemical Company. (See Spina, Joseph A., assignor.)
- Hooker, Willis L. (See Eberts, Edward C. and E. D., and Hooker.)
- Hookless Fastener Company. (See French, Willard C., assignor.)
- Hookless Fastener Company. (See Nicholson, Robert H., assignor.)



- Hookless Fastener Company. (See Smith, William T., assignor.)
- Hookless Fastener Company. (See Sundback, Gideon, assignor.)
- Hooley, Edgar P., Oxford, England. Detachable clip. 1,718,148; June 18.
- Hooley, John W., Larchmont, N. Y. Conduit elbow. 1,700,933; Feb. 5.
- Hooley, John W., Larchmont, N. Y. Expansion anchor for bolts. 1,710,639; Apr. 23.
- Hooley, John W., Larchmont, N. Y. Offset conduit-elbow fitting. 1,710,640; Apr. 23.
- Hooley, John W., Larchmont, N. Y. Threadless coupling. 1,737,242; Nov. 26.
- Hopper, Alexander C., Pasadena, and J. W. McPhee, Long Beach, Calif., assignors to The Snap Valve Corporation. Sprinkler valve. 1,740,015; Dec. 17.
- Hooper, Charles L., and R. F. Southerland, Rochester, assignors to Vacuum Oil Company, New York, N. Y. Receptacle tipper. 1,733,459; Oct. 29.
- Hooper, Douglas J. (See Whippy, G. F., Hooper, and Manley.)
- Hooper, Edward J., Nutley, N. J. Rubber-spreading machine. 1,709,266; Apr. 16.
- Hooper, Fred S. (See Leas, Warren R., assignor.)
- Hooper, Harris G., Brooklyn, N. Y. Heavier-than-air flying machine. 1,721,450; July 16.
- Hooper, Homer F. (See Hartzell, H. A., and Hooper.)
- Hooper, James P., Ruxton, assignor to Wm. E. Hooper & Sons Company, Baltimore, Md. Knockdown pool. 1,740,303; Dec. 17.
- Hooper, James P., and E. C. Clayton, Ruxton, assignor to Wm. E. Hooper & Sons Company, Baltimore, Md. Knockdown portable pool. 1,740,305; Dec. 17.
- Hooper, Wm. E., & Sons Company. (See Hooper, James P., assignor.)
- Hooper, Wm. E., & Sons Company. (See Hooper, J. P., and Clayton, assignors.)
- Hoopes, Charles L., San Diego, Calif. Screen. 1,697,277; Jan. 1.
- Hoopes, Penrose R., Hartford, Conn. Dispensing machine. 1,711,021; Apr. 30.
- Hoopes, Penrose R., Hartford, Conn., assignor to Essex Rubber Company, Trenton, N. J. Trimming machine. 1,728,896; Sept. 17.
- Hoopes, Penrose R., Hartford, Conn., assignor to Elektromatik Forging Machine Corporation. Heating and forging means. 1,733,263; Oct. 29.
- Hoopes, Penrose R., and F. Hess, Hartford, Conn.; said Hess assignor to said Hoopes. Vending machine. 1,707,722; Apr. 2.
- Hooppaw, Oscar W. (See Holman, C. H., and Hooppaw.)
- Hoops, Howard C., et al. (See Monument, George A., assignor.)
- Hoos, George W., trustee. (See Hoos, G. W., and Stanford, assignors.)
- Hoos, George W., and R. B. Stanford, Baltimore, Md., assignors to G. W. Hoos, trustee, Baltimore, Md. Safety-razor-blade stropper. 1,709,172; Apr. 16.
- Hoosier Building Tile & Silo Company. (See Booher, Thomas E., assignor.)
- Hoot, Ernest A., Spokane, Wash. Automobile repair tray. 1,723,238; Aug. 6.
- Hooth, Karl W. (See Buck, P. A., and Hooth.)
- Hooton, Gordon, Grand Rapids, Mich. Air cleaner. 1,720,179; July 9.
- Hooton, Gordon B. (See Hills, I. A., and Hooton.)
- Hoover, Charles A., Oskaloosa, Iowa. Apparatus for handling mine cars. 1,697,356; Jan. 1.
- Hoover, Chester L., Warsaw, Ind. Doll cradle. 1,715,600; June 4.
- Hoover Company, The. (See Crane, Harvey E., assignor.)
- Hoover Company, The. (See Hoover, Howard E., assignor.)
- Hoover Company, The. (See Nulsen, Marvin E., assignor.)
- Hoover Company, The. (See Smellie, Donald G., assignor.)
- Hoover Company, The. (See Stamm, John G., assignor.)
- Hoover, Edward M., Anderson, assignor, by mesne assignments, to Efficiency Tool Corporation, Kokomo, Ind. Motor tool. 1,698,952; Jan. 15.
- Hoover, Frank S., Sterling, Ill. Curtain attachment. 1,697,978; Jan. 8.
- Hoover, Howard E., Glencoe, Ill., assignor to The Hoover Company, North Canton, Ohio. Bearing air protection. 1,718,293; June 25.
- Hoover, Jacob B. (See Miller, V. W., and Hoover.)
- Hoover, Jane H., Woodland, Calif. Infant's sanitary apron. 1,721,343; July 16.
- Hoover, Kenneth H., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Monazo pyrazolone dye. 1,741,418; Dec. 31.
- Hoover, Lloyd, Karthaus, Pa. Trap setter. 1,727,773; Sept. 10.
- Hoover Steel Ball Company. (See Pew, Thomas C., assignor.)
- Hoover, Thomas A., Oakland, Calif. Vehicle spring. 1,715,034; May 28.
- Hoover, Willis S., Thomasville, Pa. Hinge. 1,726,512; Aug. 27.
- Hoover, Wilson W., and M. E. Sparrow, New York, N. Y. Electrical condenser. 1,717,154; June 11.
- Hope, Charles H., Providence, R. I. Container. 1,713,129; May 14.
- Hope Foundry & Machine Co. (See Kelly, Michael J., assignor.)
- Hope, Samuel N. (See Griffith, R. W., and Hope.)
- Hope, Stanley C., Springfield, Mass. Safety razor. 1,712,668; May 14.
- Hope, Stanley C., Springfield, Mass. Safety razor. 1,734,521; Nov. 5.
- Hope Webbing Company. (See Horton, Charles A., assignor.)
- Höper, Karl. (See Wolters, O., and Höper.)
- Hopes, Charles W., Glens Falls, N. Y. Combined lamp, ash tray, and lighter. Des. 79,656; Oct. 22.
- Hopewell Brothers. (See Wolfard, Merl R.)
- Hopewell, Charles F., et al. (See Wolfard, Merl R., assignor.)
- Hopewell, Helen C., et al. (See Wolfard, Merl R., assignor.)
- Hopf, Paul, Berlin, Germany. Grinding tool. 1,700,634; Jan. 29.
- Höpker, Julius, Soden-on-Tannus, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Producing resists in dyeing with vat dyestuffs. 1,730,211; Oct. 1.
- Hopkins, Alfred, Boston, Mass., assignor to Hopkins-Tull Machinery Co., Philadelphia, Pa. Heating and ventilating apparatus. 1,719,659; July 2.
- Hopkins, Alfred, Boston, Mass., assignor to Hopkins-Tull Machinery Co., Philadelphia, Pa. Cord holder. 1,719,766; July 2.
- Hopkins, Alfred, Boston, Mass., assignor, by mesne assignments, to Hopkins-Tull Machinery Co., Philadelphia, Pa. Stretcher. 1,722,217; July 23.
- Hopkins, Albert L. (See Wilson, H. D., and Hopkins.)
- Hopkins, Anna L., New York, N. Y. Fish creel or basket. 1,700,315; Jan. 29.
- Hopkins, Anthony P., assignor to The Howe Scale Company, Rutland, Vt. Molding scale arms. 1,697,119; Jan. 1.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Mechanism for making flanged spools. 1,706,118; Mar. 19.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Wire-tying tool. 1,707,981; Apr. 9.
- Hopkins, Arthur C., Niles, Mich., assignor to National Standard Company. Tire-bead-reinforcing element. 1,713,871; May 21.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Lifting jack. 1,723,353; Aug. 6.
- Hopkins, Arthur C., assignor to National Standard Company, Niles, Mich. Lifting jack. 1,737,373; Nov. 26.
- Hopkins Corporation. (See Bartsch, A. H., and Hopkins, assignors.)
- Hopkins Corporation. (See Hopkins, Marcus C., assignor.)
- Hopkins, Edwin. (See Longiaru, Giovanni, assignor.)
- Hopkins, Frank F., et al. (See Foss, Edmund, assignor.)
- Hopkins, Frank H., Arlington, and F. B. Woodman, Worcester, Mass., assignors, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Encased adjustable weight-loaded valve. 1,737,588; Dec. 3.
- Hopkins, George F., deceased, Jackson, Mich.; W. K. Sagendorph, executor. Chuck. 1,711,787; May 7.
- Hopkins, George W., Cleveland, Ohio. Film drier. 1,726,834; Sept. 3.
- Hopkins, George W., Cleveland, Ohio. Film hanger. 1,740,175; Dec. 17.
- Hopkins, Harry H. (See Clifford, Frank A., assignor.)
- Hopkins, James C., New York, N. Y. Door-knob bell. 1,712,039; May 7.
- Hopkins, John C., Lakewood, and A. Osolin, Cleveland, Ohio. Mud-gun carriage. 1,726,069; Aug. 27.
- Hopkins, John C., Lakewood, and A. Osolin, Cleveland, Ohio. Mud gun. 1,726,070; Aug. 27.
- Hopkins, Marcus C. (See Bartsch, A. H., and Hopkins.)
- Hopkins, Marcus C., Washington, D. C., assignor to Hopkins Corporation, Jersey City, N. J. Loud-speaker. 1,730,507; Oct. 8.
- Hopkins, Marcus C., Washington, D. C., assignor to Hopkins Corporation, Jersey City, N. J. Loud-speaker. 1,730,508; Oct. 8.
- Hopkins, Nevil M., New York, N. Y. Cigarette-manufacturing machinery. 1,721,117; July 16.
- Hopkins, Nevil M., New York, N. Y., assignor, by mesne assignments, to Gilmont Products Corporation. Multiple-compartment collapsible tube. 1,698,404; Jan. 8.
- Hopkins, Nevil M., New York, N. Y., assignor, by mesne assignments, to Gilmont Products Corporation. Multiple collapsible tube. 1,699,532; Jan. 22.
- Hopkins, Nevil M., New York, N. Y., assignor to National Carbon Company, Inc. Electric-current converter. 1,703,934; Mar. 5.
- Hopkins, Nevil M., assignor to The Burnot Fireproofing Products, Inc., New York, N. Y. Fireproofing and weather-resisting paint. 1,706,733; Mar. 26.
- Hopkins, Nevil M., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Alternating-current converter. 1,716,777; June 11.
- Hopkins, Nevil M., assignor to Burnot Fireproofing Products, Inc., New York, N. Y. Coated article. 1,717,561; June 18.
- Hopkins, Nevil M., New York, N. Y., assignor to The National Carbon Company, Inc. Electrolytic rectifier. 1,728,182; Sept. 17.
- Hopkins, Philip S., et al. (See Moran, Stephen F., assignor.)



- Hopkins, Ralph Z., and E. F. Seger, assignors to Hudson Motor Car Company, Detroit, Mich. Stencil. 1,735,004; Nov. 12.
- Hopkins, Robert C., Alliance, Ohio. Oil burner. 1,709,174; Apr. 16.
- Hopkins, Robert C., Alliance, Ohio. Combined oil and gas burner. 1,736,345; Nov. 19.
- Hopkins, Robert C., Alliance, Ohio. Oil-regulating device. 1,739,360; Dec. 10.
- Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Numbering stamp for photographic-printing machine. 1,716,523; June 11.
- Hopkins Spray Equipment Company. (See Tittmore, F. A., and Renwick, assignors.)
- Hopkins-Tull Machinery Co. (See Hopkins, Alfred, assignor.)
- Hopkinson, Alfred, Hyde, England. Braiding machine. 1,722,376; July 30.
- Hopkinson, Austin, Audenshaw, England. Belt conveyer. 1,708,885; Apr. 9.
- Hopkinson, Charles W. (See Smith, George M., assignor.)
- Hopkinson, Ernest, New York, N. Y. Tire and making same. 1,707,014; Mar. 26.
- Hopkinson, Ernest, New York, N. Y. Manufacture of tire casings. 1,713,658; May 21.
- Hopkinson, Ernest, New York, and M. C. Teague, Jackson Heights, N. Y., assignors to American Rubber Company, East Cambridge, Mass. Treating rubber latex compositions and articles formed thereby. 1,736,404; Nov. 19.
- Hopkirk, Joseph, Cambridge, and G. W. Gane, Normany, New Zealand. Milking-machine teat cup. 1,699,891; Jan. 22.
- Hopp, Herman and L., New York, N. Y. Price-ticket holder. 1,698,547; Jan. 8.
- Hopp, Leo. (See Hopp, Hermann and L.)
- Hoppe, Gerhard. (See Herzberg, W., and Hoppe.)
- Hoppe, William O. (See Rehrig, W. J., and Hoppe.)
- Hoppes, Charles E., assignor to The Everwear Manufacturing Company, Springfield, Ohio. Diving swing. 1,731,532; Oct. 15.
- Hoppes, Charles E., assignor to The Everwear Manufacturing Company, Springfield, Ohio. Playground apparatus. 1,740,304; Dec. 17.
- Hoppin, Mary G., New York, N. Y. Hat support. 1,710,478; Apr. 23.
- Hoppler, Hans, assignor to the firm of Sulzer Frères Société Anonyme, Winterthur, Switzerland. Compound reciprocating compressor. 1,724,934; Aug. 20.
- Hopponer, Robert, Represa, assignor of one-half to R. Marshall, Stockton, Calif. Monkey wrench. 1,721,118; July 16.
- Hops Bros. Inc. (See Kops, Waldemar, assignor.)
- Hopson, W. C., Company. (See Hopson, William C., assignor.)
- Hopson, William C., assignor to W. C. Hopson Company, Grand Rapids, Mich. Roof flashing. 1,704,942; Mar. 12.
- Hopwood, John M. (See Otto, Harry A., assignor.)
- Hopwood, William B., College Point, N. Y., assignor to The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Shoe sole. 1,725,519; Aug. 20.
- Horacek, Paul, Philadelphia, Pa. Hair curler or crimper. 1,705,448; Mar. 12.
- Horacek, Paul, Philadelphia, Pa. Hair curler. 1,717,212; June 11.
- Horak, Jaroslav, assignor, by mesne assignments, to Atlas Collapsible Tube Co., Chicago, Ill. Collapsible-tube-making machine. 1,729,257; Sept. 24.
- Horak, Julius J., assignor to A. A. Hemmen, San Francisco, Calif. Paint. 1,717,924; June 18.
- Horbath, Michael, Lowber, Pa. Crossbar setter. 1,708,761; Apr. 9.
- Horelick, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Temperature indicator. 1,706,609; Mar. 26.
- Horelick, Samuel, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. 1,740,093; Dec. 17.
- Horgan, Mabel M., et al. (See Anderson, Carl G., assignor.)
- Horger, Oscar J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car truck and brake mounting. 1,705,568; Mar. 19.
- Horiata, Kenji, New York, N. Y. Window cleaner. 1,716,171; June 4.
- Horii, Shinjiro, Tokyo, Japan. Stencil sheet. Re17,267; Apr. 9.
- Horii, Shinjiro, Tokyo, Japan. Stencil sheet. 1,698,705; Jan. 8.
- Horii, Shinjiro, Tokyo, Japan. Stencil sheet. 1,729,072; Sept. 24.
- Horine, Merrill C., Grasmere, assignor to International Motor Company, New York, N. Y. Flexible exhaust-pipe coupling. 1,732,721; Oct. 22.
- Horix, Carl, Chicago, Ill. Combined calendar, fountain-pen holder, and receptacle. Des. 77,599; Jan. 29.
- Horix, Carl, Chicago, Ill. Pen support. Des. 77,835; Feb. 26.
- Horix, Carl, Chicago, Ill., assignor to C. C. Horix, St. Louis, Mo. Bottle-stopper remover. 1,716,058; June 4.
- Horix, Carl, Chicago, Ill. Combination tool. 1,717,925; June 18.
- Horix, Carl, Chicago, Ill. Holder for articles of stationery. 1,719,840; July 9.
- Horix, Carl, Chicago, Ill. Beverage and preparing the same. 1,741,773; Dec. 31.
- Horix, Carrie C. (See Horix, Carl, assignor.)
- Horlacher, Elmer L. (See Warner, C., and Horlacher.)
- Horlacher, Otto, Newark, N. J. Replacement engine device. 1,697,565; Jan. 1.
- Horle, Lawrence C. F., Newark, N. J., assignor to Federal Telephone Manufacturing Corporation, Buffalo, N. Y. Radio transmission system. 1,721,627; July 23.
- Hormel, August. (See Wagner, C., and Hormel.)
- Hormel, Geo. A., & Company. (See Hormel, J. C., Corey, and Cashman, assignors.)
- Hormel, Geo. A., & Company. (See Kaufmann, C. J., and Smith, assignors.)
- Hormel, Geo. A., & Company. (See Smith, Thomas A., assignor.)
- Hormel, Jay C., Lansing Township, Mower County, H. H. Corey and E. J. Cashman, assignors to Geo. A. Hormel & Company, Austin, Minn. Poultry package and making same. 1,740,176; Dec. 17.
- Hormes, William T. (See Gaston, Guy, assignor.)
- Hormes, William T., Catonsville, Md. Combination cornice and pilaster. Des. 77,600; Jan. 29.
- Horn, A. C., Company. (See Snyder, Jacob K., assignor.)
- Horn, Arno, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Measured-service telephone system. 1,734,729; Nov. 5.
- Horn, Charles W., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Directive-reception microphone. 1,732,722; Oct. 22.
- Horn, Hans, assignor to G. Polysius, Dessau, Germany. Blowing-out nozzle for conveying plants operated with compressed air. 1,733,302; Oct. 29.
- Horn and Hardart Baking Company. (See Cramer, Albert M., assignor.)
- Horn and Hardart Baking Company. (See Lowther, Leonard W., assignor.)
- Horn, Harry L. (See Sorensen, Clarence, assignor.)
- Horn, Jake, Minco, Okla. Cotton-harvesting machine. 1,715,836; June 4.
- Horn, Johannes, Leipzig, Germany. Push-button switch. 1,726,897; Sept. 3.
- Horn, John P., Lancaster, Pa. Furniture attachment. 1,703,066; Feb. 19.
- Horn, Leonhard, Wurzburg, Germany. Screw device. 1,724,590; Aug. 13.
- Horn, Pleasant W., and N. M. Patrick, Charlotte, N. C. Receptacle-operated valve. 1,704,322; Mar. 5.
- Horn, Rudolf, Dresden, Germany. Printing press. 1,709,575; Apr. 16.
- Horn Surgical Company. (See Christy, William B., assignor.)
- Horn, William G., Edgewood Acres, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,696,914; Jan. 1.
- Hornbeck, Everett R., and H. K. Holt, Cisco, Tex. Tug-wheel clutch. 1,741,629; Dec. 31.
- Hornberger, Earl J., Cleveland Heights, assignor to J. G. Oliver, doing business as Bardons and Oliver, Cleveland, Ohio. Friction clutch. 1,699,968; Jan. 22.
- Hornberger, Earl J., assignor to Bardons & Oliver, Cleveland, Ohio. Motor drive for lathes. 1,708,672; Apr. 9.
- Hornberger, John W., Shillington, Pa., assignor to Reading Hardware Corporation. Door closer. 1,703,365; Apr. 9.
- Hornbostel, Lloyd, Beloit, Wis., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear wheel. 1,729,442; Sept. 24.
- Hornbostel, Lloyd, Beloit, Wis., assignor to Westinghouse Electric & Manufacturing Company. Locomotive driving mechanism. 1,729,443; Sept. 24.
- Hornbuckle, William P., and R. F. Craig, Stanley, N. C. Beam warper. 1,697,564; Jan. 1.
- Hornburg, Charles A., Waco, Tex. Auto rim adjuster. 1,702,474; Feb. 19.
- Hornby, Charles H., Schenectady, N. Y. Electric water heater. 1,735,165; Nov. 12.
- Hornby, George E., Valentine, Nebr. Sweep tooth. 1,728,287; Sept. 17.
- Horne, Bartlett S., and R. M. Laughinghouse, Jacksonville, Fla. Safety device. 1,741,626; Dec. 31.
- Horne, James O., Lock Haven, Pa. Continuous-settling device. 1,716,228; June 4.
- Horne, John F., deceased, Portland, Me.; F. P. Davis, executrix, assignor to W. H. Horne. Milk strainer. 1,715,601; June 4.
- Horne, Wealthy H. (See Horne, John F., assignor.)
- Horne, William T., Queens Village, assignor to H. Miller, Brooklyn, N. Y. Apparatus for placing heel pads in slippers. 1,733,264; Oct. 29.
- Hornecker, George, Elmhurst, assignor, by mesne assignments to Conwell Graphic Company, Incorporated, New York, N. Y. Display device. 1,718,235; June 25.
- Hornecker, George, Elmhurst, assignor, by mesne assignments to Conwell Graphic Company, Incorporated, New York, N. Y. Display box. 1,733,803; Oct. 29.
- Horner, Walter A. (See Chapman, Penrose E., assignor.)
- Horni, Paul P., Newark, N. J. Illuminating signal. 1,719,977; July 9.
- Horni, Paul P., Newark, N. J. Self-starting synchronous motor. 1,720,217; July 9.
- Horni, Paul P., Newark, N. J. Traffic signal. 1,728,762; Sept. 17.
- Hornick, Gustave, et al. (See Spanier, J. and Weiss, assignors.)
- Horning, Frederick H., Toledo, Ohio. Phonograph cabinet. 1,698,499; Jan. 8.



- Horning, Harry L., assignor to Waukesha Motor Company, Waukesha, Wis. Internal-combustion engine. 1,729,972; Oct. 1.
- Hornquist, Frank, Mount Jewett, Pa. Child's vehicle. 1,701,410; Feb. 5.
- Hornung, Anton N., Los Angeles, Calif. Holder and closure for open-mouth containers. 1,697,425; Jan. 1.
- Hornung, Charles G., assignor to Larkin Co. Inc., Buffalo, N. Y. Method and apparatus for securing can covers to can bodies. 1,719,547; July 2.
- Horny, Friedrich, Vienna, Austria. Connecting the plates of electric condensers and the like to their supports. 1,697,316; Jan. 1.
- Horowitz, Barnett, Brooklyn, N. Y. Toasting apparatus. 1,717,926; June 18.
- Horrocks Desk Company. (See Simmons, George P., assignor.)
- Horrum, Raymond. (See Horrum, William H., assignor.)
- Horrum, William H., Adams, Neb., assignor, by mesne assignments, to R. Horrum, Switch. 1,702,829; Feb. 19.
- Horsak, Rudolf. (See Nigrin, R. and Horsak.)
- Horsch, William G., Coraopolis, Pa., assignor to Vulcan Detinning Company, Sewaren, N. J. Recovery of zinc. 1,719,056; July 2.
- Horsfall, Herbert, assignor to The Salt's Textile Manufacturing Co., Bridgeport, Conn. Machine for processing sheet materials. 1,717,976; June 18.
- Horsley, Caperton, and E. R. Goldfield, assignors to The Engeln Electric Company, Cleveland, Ohio. Controlling means for electric circuits. 1,717,317; June 11.
- Horst, Christian H., Los Angeles, Calif. Hospital bed with bedpan administration means. 1,707,464; Apr. 2.
- Horst, Henry W., Company. (See Petersen, Robert P., assignor.)
- Horst, Ludwig, Berlin-Wilmersdorf, Germany. Colored film. 1,736,826; Nov. 26.
- Horsting, William F. (See Ross, Clarence A., assignor.)
- Horstkotte, Frederick W., Portland, Oreg. Lumber-grading machine. 1,705,569; Mar. 19.
- Horstkotte, Frederick W., Portland, Oreg. Sticker placer. 1,705,570; Mar. 19.
- Horstmann, Frederick W., Maplewood, N. J. Unhairing machine. 1,715,758; June 4.
- Horstmann, Frederick W., Maplewood, N. J. Fur-plucking machine. 1,725,082; Aug. 20.
- Horstmann, Frederick W., Maplewood, N. J. Fur machine. 1,725,192; Aug. 20.
- Horstmann, Frederick W., Maplewood, N. J. Producing designs in furs. 1,737,035; Nov. 26.
- Horstmann, Frederick W., Maplewood, N. J. Producing designs in furs. 1,737,086; Nov. 26.
- Horstmann, Frederick W., Maplewood, N. J. Fur machine. 1,737,087; Nov. 26.
- Horstmann, John C. F., Brooklyn, N. Y. Attachment for pool tables. 1,703,448; Feb. 26.
- Hort, Hermann. (See Just, H., and Hort.)
- Horten, Alphonso, Berlin, Germany. Field watering plant. 1,726,986; Sept. 3.
- Horthy, William A., and F. G. Hodsdon, assignors to International Harvester Company, Chicago, Ill. Road grader. 1,705,291; Mar. 12.
- Horthy, William A., and F. G. Hodsdon, assignors to International Harvester Company, Chicago, Ill. Liner for tent cups of milking machines. 1,705,292; Mar. 12.
- Horthy, William A., and F. G. Hodsdon, assignors to International Harvester Company, Chicago, Ill. Teat cup for milking machines. 1,705,293; Mar. 12.
- Horton, Albert J., White Plains, assignor to R. Hoe & Co., Inc., New York, N. Y. Plate-printing machine. 1,714,507; May 28.
- Horton, Albert J., White Plains, and C. F. Gravenhorst, Brooklyn, assignors to R. Hoe & Co., Inc., New York, N. Y. Bed-driving mechanism for power plate presses. 1,738,055; Dec. 3.
- Horton, Allen A., Plymouth, assignor to Burroughs Adding Machine Company, Detroit, Mich. Calculating machine. 1,730,147; Oct. 1.
- Horton, Allen A., Plymouth, assignor to Burroughs Adding Machine Company, Detroit, Mich. Keyboard for calculating machines. 1,732,231; Oct. 22.
- Horton, Allen A., Plymouth, assignor to Burroughs Adding Machine Company, Detroit, Mich. Controlling means for calculating machines. 1,738,144; Dec. 3.
- Horton, Charles, Ridgefield Park, N. J., assignor to The Pilot Electric Manufacturing Company, Inc., Brooklyn, N. Y. Radio reception device. 1,720,260; Feb. 19.
- Horton, Charles, Ridgefield Park, N. J., H. R. Van Deventer, New York, N. Y., and A. C. Heiny, Ridgefield Park, N. J., assignors to Dubilier Condenser Corporation, New York, N. Y. Condenser-assembling machine. 1,740,177; Dec. 17.
- Horton, Charles A., Providence, assignor to Hope Webbing Company, Pawtucket, R. I. Webbing fabric. 1,726,564; Sept. 3.
- Horton, Clement E., New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Push plate or similar article. Des. 77,551; Jan. 22.
- Horton, Clement E., New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Hinge plate. Des. 77,552; Jan. 22.
- Horton, Clement E., New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Push plate or similar article. Des. 78,098; Mar. 26.
- Horton, Clement E., New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Push plate or similar article. Des. 78,099; Mar. 26.
- Horton, Clement E., New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Push plate or similar article. Des. 78,100; Mar. 26.
- Horton, Clyde E., Cleveland, Ohio, assignor to Detroit Steel Products Company, Detroit, Mich. Ornamental design for casement windows. 1,709,267; Apr. 16.
- Horton, Ellsworth A., Bronx, N. Y. Display device. 1,728,610; Sept. 17.
- Horton, Elsie H., Minneapolis, Minn. Display or decoration device. 1,728,166; Sept. 10.
- Horton, Erwin C., Hamburg, and H. Hueber, assignors to Trico Products Corporation, Bugalo, N. Y. Automatic windshield cleaner. 1,719,660; July 2.
- Horton & Hubbard Mfg. Co., The. (See Horton, W. E., and Caro, assignors.)
- Horton, Joseph W. (See Ives, H. E., and Horton.)
- Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective transmission system. 1,708,945; Apr. 16.
- Horton, Joseph W., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Television system. 1,728,122; Sept. 10.
- Horton Manufacturing Company, The. (See Broadwell, H. S., and Thorpe, assignors.)
- Horton, Ralph, Allenhurst, N. J. Control feed for filling milk bottles. 1,722,420; July 30.
- Horton, Walter B., Arlington, and A. Caro, Dorchester, assignors to The Horton & Hubbard Mfg. Co., East Somerville, Mass. Lock. Des. 78,208; Apr. 9.
- Horton, Wilford H., assignor of one-half to W. F. Russell, Dallas, Tex. Banjo. 1,704,323; Mar. 5.
- Horton, William J., Winnipeg, Manitoba, Canada. Cultivating attachment. 1,712,702; May 14.
- Hortvet, Richard M., assignor to Mahr Manufacturing Company, Minneapolis, Minn. Roller-hearth furnace. 1,735,968; Nov. 19.
- Horvath, Andrew, Cleveland, Ohio. Spring wheel. 1,710,215; Apr. 23.
- Horvath, Geza, Detroit, Mich. Blank-scarfing machine. 1,723,783; Aug. 6.
- Horvath, Wendel, Cleveland, Ohio. Smoker's cabinet. 1,728,862; Sept. 17.
- Horwath, Julius, assignor to Arvey Corporation, Chicago, Ill. Display stand and the like. 1,713,758; May 21.
- Horwitz, Paul H., Springfield, Mass. Paper toweling or the like. Des. 78,575; May 21.
- Horwitz, Paul H., Springfield, Mass. Paper napkin or the like. Des. 78,707; June 11.
- Horwitz, Paul H., Springfield, Mass. Paper napkin and folding the same. 1,730,074; Oct. 1.
- Horwitz, Samuel, et al. (See Heaford, Edwin V., assignor.)
- Horwitz, Samuel, Los Angeles, Calif. Lady's coat with removable lining. 1,730,769; Oct. 8.
- Horwitz, Will. (See Markham, Henry C., assignor.)
- Hosbein, Louis H., Winnetka, assignor to M. H. Detrick Company, Chicago, Ill. Furnace-wall construction. 1,738,707; Dec. 10.
- Hosceit, William J., assignor to Rodger Ballast Car Company, Chicago, Ill. Controlled-discharge dump car. 1,706,610; Mar. 26.
- Hose, Henry G., Brooklyn, N. Y. Toy. 1,704,387; Mar. 5.
- Hose, John W. (See Halset, C. J., and Hose.)
- Hosford, Leonard V. and D. Davidson, Portland, Oreg., assignor, by mesne assignments, to Hosford Motor Construction Co. Two-cycle internal-combustion engine and operating the same. 1,725,274; Aug. 20.
- Hosford Motor Construction Co. (See Hosford, L. V. and Davidson, assignors.)
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing machine. 1,722,421; July 30.
- Hosford, William F., Oak Park, and D. Levinger, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Strand-working mechanism. 1,720,676; July 16.
- Hosier, Arthur J., Burbage, Marlborough, assignor to Hosier Open Air Pure Milker, Limited, Wexcombe, Marlborough, England. Milking shed and apparatus for use therewith. 1,719,370; July 2.
- Hosier Open Air Pure Milker, Limited. (See Hosier, Arthur J., assignor.)
- Hosking, Richard T., Wilmette, Ill., assignor to H. R. Hough Company, Chicago, Ill. Circuit-disabling device for electric lamps. 1,724,654; Aug. 13.
- Hoskins, William, Chicago, Ill., assignor to Standard Oil Development Company. Hot joint paste. 1,699,294; Jan. 15.
- Hosler, Claude, and J. B. Whelan, Topeka, Kans. Unloading conveyor. 1,703,820; Feb. 26.
- Hosmer, Robert L. (See Hirschfeld, Walter H., assignor.)
- Hosmer, Ralph B., San Francisco, Calif. Bed-spring fabric. 1,741,022; Dec. 24.
- Hosoi, Isamu, Osaka-Shi, Japan. Gearing for sound-reproducing machines. 1,730,427; Oct. 8.
- Hossell, Fred, Eburne, British Columbia, Canada, and W. H. Peterman, Waconia, Minn. Page-turning device. 1,735,166; Nov. 12.
- Hostetter, Abram E., Hope, Kans. Harmonica. 1,735,645; Nov. 12.
- Hostetter, Percell E., Hanover, Pa. Combination bathroom fixture. 1,729,258; Sept. 24.



- Hostetter, Willis M., Miami, Fla. Mixing-bowl holder. 1,740,401; Dec. 17.
- Hostettler, Leigh W., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Cooking utensil. 1,717,450; June 18.
- Hostettler, Leigh W., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Closing means for journal-box lids. 1,732,048; Oct. 15.
- Hotchkiss, Paul M., Chicago, Ill. Reflector holder and the like. 1,725,193; Aug. 20.
- Hotchkiss, Paul M., Chicago, Ill. Joint for lighting systems. 1,727,772; Sept. 10.
- Hotchkiss, Paul M., Chicago, Ill. Closure for flood-light projectors. 1,735,248; Nov. 12.
- Hotchkiss, Blue & Co. Ltd. (See Bernbaum, J. W., and Wright, assignors.)
- Hotchkiss, Donald V., Dorset, England. Propulsion of water craft and aircraft. 1,741,238; Dec. 31.
- Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)
- Hotchkiss, E. H., Company, The. (See Szepe, Joseph J., assignor.)
- Hotchkiss, Guy R. (See McArthur, C. C., and Hotchkiss.)
- Hotchkiss, William O., Houghton, Mich., H. R. Aldrich, Madison, Wis., N. H. Stearn, St. Louis, Mo., and J. P. Forster, Madison, Wis., assignors to W. C. McBride, Inc., St. Louis, Mo. Physical instrument. 1,702,868; Feb. 19.
- Hotchkiss, William R., St. Paul, Minn. Check book. 1,706,883; Mar. 26.
- Hotchkiss, William S., Anniston, Ala. Sectional cast-iron culvert. 1,730,612; Oct. 8.
- Hotchner, Joseph, San Francisco, Calif. Illuminated sign. 1,740,736; Dec. 24.
- Hotel Folder Distributing Corporation. (See Moore, L. G., and Pelot, assignors.)
- Hothersall, John M., Brooklyn, N. Y. Sealing means for containers. 1,714,874; May 28.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Necking-in or reforming tubular bodies. 1,698,999; Jan. 15.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Lunch kit. 1,699,698; Jan. 22.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Closing containers. 1,700,984; Feb. 5.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder can. 1,705,814; Mar. 19.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Sealing ring for containers. 1,713,880; May 21.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Can-closing machine. 1,714,875; May 28.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Process and apparatus for making sealing rings for containers. 1,728,410; Sept. 17.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Forming and applying can ends. 1,730,575; Oct. 8.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container closure. 1,739,759; Dec. 17.
- Hothersall, John M., Brooklyn, and V. Odquist, Yonkers, assignors to American Can Company, New York, N. Y. Dental burr holder. 1,705,815; Mar. 19.
- Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)
- Hott, Ion V. K. (See Dawley, J. C., and Hott.)
- Hott, Ion V. K., assignor to The Joyce-Cridland Company, Dayton, Ohio. Lifting jack. 1,719,661; July 2.
- Hott, Ion V. K., assignor to The Joyce-Cridland Company, Dayton, Ohio. Journal-box jack. 1,724,133; Aug. 13.
- Hott, Ion V. K., and W. A. Spear, assignors to The Joyce-Cridland Company, Dayton, Ohio. Lifting device. 1,702,442; Feb. 19.
- Hottel, Louis W., Detroit, Mich. Press for forming plastic articles. 1,708,178; Apr. 9.
- Hottel, Louis W., Detroit, Mich. Press for forming plastic articles. 1,708,791; Apr. 9.
- Hottinger, Adolph F., assignor to The Northwestern Terra Cotta Company, Chicago, Ill. Making terra-cotta articles. 1,737,847; Dec. 3.
- Hottman, John F., Chicago, Ill. Boiler and the like. 1,698,133; Jan. 8.
- Hottmann, Charles W., Philadelphia, Pa. Mixer. 1,723,620; Aug. 6.
- Houck, Harry W. (See Aull, W., Jr., and Houck.)
- Houck, Harry W., East Orange, N. J., assignor to Dubilier Condenser Corporation, New York, N. Y. Adjustable electrical condenser. 1,715,319; May 28.
- Houdaille-Hershey Corporation. (See Jeffers, Clarence E., assignor.)
- Houdaille-Hershey Corporation. (See Nehls, Charles H., assignor.)
- Houdaille, Maurice, Levallois-Perret, France. Antivibratory device applicable to the steering wheels of vehicles. 1,699,192; Jan. 15.
- Houde Engineering Corporation. (See Shultz, Albert B., assignor.)
- Houdremont, Eduard, Essen, and V. Ehmcke, Essen-Hugel, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Steel alloy. 1,711,733; May 7.
- Hough, Arthur H. (See Carpenter, Frank D., assignor.)
- Hough, Clinton W., Boonville, assignor to Wired Radio, Inc., New York, N. Y. Correction of power factor in induction motors. 1,741,518; Dec. 31.
- Hough, Edward B., Providence, R. I. Match box. 1,703,671; Feb. 26.
- Hough, Edward B., Providence, R. I. Match box. 1,724,712; Aug. 13.
- Hough, Eugene L., Schenectady, N. Y., assignor to General Electric Company. Control of electric power. 1,701,369; Feb. 5.
- Hough, Eugene L., Schenectady, N. Y., assignor to General Electric Company. Control apparatus. 1,701,370; Feb. 5.
- Hough, Eugene L., St. Louis, Mo., assignor to General Electric Company. Pressure-control apparatus. 1,717,213; June 11.
- Hough, Eugene L., St. Louis, Mo., assignor to General Electric Company. Regulating system. 1,723,039; Aug. 6.
- Hough, H. R., Company. (See Hosking, Richard T., assignor.)
- Houghten, Roy, Detroit, Mich. Receptacle for refuse. 1,742,075; Dec. 31.
- Houghton, Bob C., Austin, Tex. Mechanical cotton picker. 1,727,774; Sept. 10.
- Houghton-Butcher Manufacturing Company, The. (See Denniss, A. D., and Edwards, assignors.)
- Houghton, Carl R., assignor to The Connersville Blower Company, Inc., Connersville, Ind. Dust separator. 1,741,774; Dec. 31.
- Houghton, E. F., & Company. (See Bohne, William A., assignor.)
- Houghton, E. F., and Company. (See Pressell, George W., assignor.)
- Houghton, Harry W., Glen Echo, Md., assignor to Safety Fumigant Company, Boston, Mass. Fumigant cartridge. 1,704,607; Mar. 5.
- Houghton, Norman O., Washington, D. C. Conduit clamp for knock-out boxes. 1,721,119; July 16.
- Houghton, William H., Los Angeles, Calif. Roofing. 1,738,006; Dec. 3.
- Houghton, William M., Newton, Mass. Dipper-latch actuator. 1,712,040; May 7.
- Houk, Ella R., Covington, La. Nonglare automobile lamp shade. 1,725,642; Aug. 20.
- Houlding and Coleman Limited. (See Mahaffy, Norman S., assignor.)
- Houllis, Louis D., Dallas, Tex. Baking oven. 1,697,357; Jan. 1.
- Hoult, Charles H., San Antonio, Tex. Ice skate. 1,702,695; Feb. 19.
- Houpt, Clayton S. (See Mavor, W., and Houpt.)
- Houden, Ernest J. W., Croydon, England. Apparatus relating to games and pastimes. 1,703,672; Feb. 26.
- House, Arthur C., Weldon, N. C. Sample holder and label for cloth boards or bolts. 1,710,662; Apr. 23.
- House, Frank R., Baldwin Harbor, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Unattended beacon. 1,700,226; Jan. 29.
- House, Frank R., Baldwin Harbor, assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Distant control mechanism. 1,708,541; Apr. 9.
- House, Herman, Vancouver, British Columbia, Canada. Vehicle roof. 1,703,395; Feb. 26.
- House, Herman, Vancouver, British Columbia, Canada. Cigarette holder. 1,731,574; Oct. 15.
- House, James N., assignor to The Sparks-Withington Company, Jackson, Mich. Radio cabinet. Des. 79,657; Oct. 22.
- House, Lee Roy B., Herrin, Ill. Teeth. 1,703,484; Feb. 26.
- House, Randolph A., Middle Haddam, Conn. File guide and handle. 1,708,388; Apr. 9.
- Houseberg, Carl E., Pittsburgh, Pa. Machine for soldering square cans. 1,706,231; Mar. 19.
- Houseman, Harold E., Edge Moor, Del. Brake for motor-driven vehicles. 1,736,082; Nov. 19.
- Houseman, Harold E., Edge Moor, assignor to Standard-Trump Bros. Machine Company, Wilmington, Del. Circular-knitting machine. 1,701,851; Feb. 12.
- Houseman, Harold E., Edge Moor, Del., assignor to Standard-Trump Bros. Machine Company, Wilmington, Del. Pattern mechanism for circular-knitting machines. 1,707,807; Apr. 2.
- Houseman, Harold E., assignor to Standard-Trump Brothers Machine Company, Wilmington, Del. Circular-knitting machine. 1,725,275; Aug. 20.
- Houseman, Wilbur L., and G. I. Blaetz, Philadelphia, Pa., assignors to Scott & Williams, Inc., New York, N. Y. Positioning transferred fabrics on knitting machines. 1,711,022; Apr. 30.
- Houser, Arthur M., Oak Park, and C. A. Dopp, assignors to Crane Co., Chicago, Ill. Valve-yoke construction. 1,736,405; Nov. 19.
- Houskeeper, William G., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,700,531; Jan. 29.
- Houston, Ali J., Richmond, Va., assignor to H., E., B., and J. Houston, Washington, D. C. Collar fastener. 1,725,759; Aug. 27.



- Houston, Clarence C., Lodi, Calif. Grape crate. 1,711,023; Apr. 30.
- Houston Compress Company. (See Renaud Aristide, F., assignor.)
- Houston, Dillman C. (See Houston, William A. and D. C.)
- Houston, Evelyn et al. (See Houston, Ali J., assignor.)
- Houston, Helen, et al. (See Houston, Ali J., assignor.)
- Houston, Henry B., Detroit, Mich. Flotation screen. 1,731,779; Oct. 15.
- Houston, Henry B., New York, N. Y. Edge binder. 1,737,243; Nov. 26.
- Houston, Joseph, et al. (See Houston, Ali J., assignor.)
- Houston, Ruth, et al. (See Houston, Ali J., assignor.)
- Houston, William, Haverhill, Mass. Pie-plate attachment. 1,699,239; Jan. 15.
- Houston, William A. and D. C., Los Angeles, Calif. Fountain pen. 1,723,171; Aug. 6.
- Houston, William L., Carrsville, Ky. Automatic vehicle brake. 1,717,977; June 18.
- Houts, Guy J., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for supporting composite strands. 1,719,609; July 2.
- Houtsma, Cornelius P., Ocheyedon, Iowa. Grain binder. 1,714,025; May 21.
- Houtz, Alfred B., Elizabeth City, N. C. Method of and apparatus for producing ventilated barrel staves. 1,711,388; Apr. 30.
- Hovde, Albert, Notteroy, Norway. Brake-testing device for vehicle wheels. 1,733,224; Oct. 29.
- Hove, Ole, Atascadero, Calif. Motor-controlling means. 1,733,062; Oct. 22.
- Hovelsrud, H. A., et al. (See Storms, Harold O., assignor.)
- Hover, Jess C., et al. (See Moran, Stephen F., assignor.)
- Hovey, Mark H., Madison, Wis. Block-signal system. 1,703,107; Feb. 26.
- Hovey, Oscar E., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Forming gears. 1,716,637; June 11.
- Hovey, Rex W., St. John, New Brunswick, Canada. Pulpwood digester. 1,702,347; Feb. 19.
- Hovis, Willie A., Mountain Grove, Mo. Syringe. 1,703,238; Feb. 26.
- Hovland, Henry, Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,708,946; Apr. 16.
- Hovland, Henry, Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,711,682; May 7.
- Howard, Arthur M., Pittsburgh, Pa., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Wood impregnation. 1,703,239; Feb. 26.
- Howard, Albert L., Braintree, assignor to A. Hamilton, Brockton, Mass. Finishing strip or welt for upholstery. 1,708,063; Apr. 9.
- Howard, Albert S., Great Neck, assignor to J. R. Vogel, New York, N. Y. Motion-picture screen. 1,734,467; Nov. 5.
- Howard, Charles C., Louisville, Ky. Check book. 1,709,618; Apr. 16.
- Howard, Charles C., Louisville, Ky. Check book and forming the same. 1,715,658; June 4.
- Howard, Charles L., Chicago, Ill. Operating device for car couplers. 1,701,111; Feb. 5.
- Howard, Charles R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Harness motion for looms. 1,724,283; Aug. 13.
- Howard Development Company. (See Howard, Merton W., assignor.)
- Howard, Edwin R. T., Austin, Tex. Tool handle. 1,717,562; June 18.
- Howard, Frank A. (See Clark, E. M., and Howard.)
- Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Preparing hydrocarbons. 1,702,899; Feb. 19.
- Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Preparing hydrocarbon products. 1,727,303; Sept. 3.
- Howard, George B., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for grinding and polishing plate glass. 1,731,663; Oct. 15.
- Howard, Guy C., Seattle, Wash. Treating waste sulphite liquor. 1,699,845; Jan. 22.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Dust-collecting system. 1,705,449; Mar. 12.
- Howard, Henry, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Pressure sulphur burner. 1,708,094; Apr. 9.
- Howard, Henry J. M., Washington, D. C. Wrench. 1,709,075; Apr. 16.
- Howard, James R., Tulsa, Okla. Ventilator. 1,735,760; Nov. 12.
- Howard, John H., Walnut Park, and H. N. Marsh, Los Angeles, Calif. Pump dynamometer. 1,739,675; Dec. 17.
- Howard, John W., Trenton, N. J. Rotary engine. 1,733,965; Oct. 29.
- Howard, Joseph O. (See Agnew, A. S., and Howard.)
- Howard, Joseph R., London, England. Apparatus for exercising the ocular muscles and for fusion framing. 1,738,708; Dec. 10.
- Howard, Justin C., Cedar Falls, Iowa. Dispensing flask. 1,718,905; June 25.
- Howard, Lemuel F., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Bearing structure. 1,702,543; Feb. 19.
- Howard, Lucy H., Hartwell, Ga. Card game. 1,738,902; Dec. 10.
- Howard, Mary C., New York, N. Y. Sport bag. 1,711,349; Apr. 30.
- Howard, Merton W., assignor to Howard Development Company, Lynn, Mass. Heel-blank-breasting machine. 1,711,734; May 7.
- Howard, Monroe S., Hastings, Minn. Vernier tuning dial. 1,724,762; Aug. 13.
- Howard, Oliver O., Yamhill, Oreg. Mixer. 1,728,411; Sept. 17.
- Howard, Stanley R., East Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton-forming machine. 1,702,651; Feb. 19.
- Howard, Stanley R., East Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Box-making machine. 1,716,853; June 11.
- Howard, Stanley R., East Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Weighing machine. 1,724,591; Aug. 13.
- Howard, Stanley R., East Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Wrapping machine. 1,730,613; Oct. 8.
- Howard, Stanley R., East Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Weighing and packaging machine. 1,739,072; Dec. 10.
- Howard, Sumner S., assignor to A C Spark Plug Company, Flint, Mich. Concealed odometer. 1,717,687; June 18.
- Howard, William R., Washington, D. C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for treating oils. 1,715,066; May 28.
- Howards & Sons Limited. (See Blagden, John W., assignor.)
- Howarth, Frank A., New York, N. Y. Air-operated spraying means. 1,712,617; May 14.
- Howarth, Harry A. S., Pittsburgh, assignor, by mesne assignments, to Kingsbury Machine Works, Inc., Philadelphia, Pa. Cooling system for bearings. 1,734,905; Nov. 5.
- Howarth, Harry A. S., assignor, by mesne assignments, to Kingsbury Machine Works, Inc., Philadelphia, Pa. Bearing. 1,734,906; Nov. 5.
- Howarth, John F., Marrickville, near Sydney, Australia, assignor of one-half to E. M. Goldsmith, New York, N. Y. Automobile wheel puller. 1,698,755; Jan. 15.
- Howarth, John F., New York, N. Y. Diaphragm control valve. 1,710,983; Apr. 30.
- Howarth, John F., and E. M. Goldsmith, New York, N. Y., assignors, by mesne assignments, to Automotive Standards, Inc. Amusement motor vehicle. 1,706,162; Mar. 19.
- Howcott, Harley A. W., New Orleans, La. Hydraulic washing machine. 1,707,083; Mar. 26.
- Howcott, Harley A. W., New Orleans, La. Collapsible barrel. 1,732,128; Oct. 15.
- Howdy Company. (See Grigg, Charles L., assignor.)
- Howe, Allen E., Seattle, Wash. Holder for magazines or similar articles. Des. 78,392; Apr. 30.
- Howe, Arthur J., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Conveyor mechanism. 1,733,409; Oct. 29.
- Howe, Arthur J., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Conveyor. 1,737,762; Dec. 3.
- Howe, Charles P., Cox City, Okla. Oil-well mechanism. 1,698,797; Jan. 15.
- Howe, Emil, San Gabriel, Calif. Thermostat apparatus for water heaters. 1,723,239; Aug. 6.
- Howe, Fred, Adrian, Mich., assignor to Page Steel & Wire Company. Automobile bumper. 1,701,074; Feb. 5.
- Howe, Fred C., Pasadena, Calif. Fan. 1,706,163; Mar. 19.
- Howe, Fred M., Wellsboro, Pa. Piston. 1,737,658; Dec. 3.
- Howe, Frederick A., jr., and W. Hinchliffe, Huntsville, Ala. Electric lamp and shade adjuster. 1,714,369; May 21.
- Howe, Glenn A., Silverton, Oreg. Golf bag. 1,741,057; Dec. 24.
- Howe, James F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Manufacturing wire. 1,712,348; May 7.
- Howe, Joseph B., assignor to George S. Harwood and Son, Worcester, Mass. Mixing and blending apparatus. 1,733,225; Oct. 29.
- Howe Scale Company, The. (See Hopkins, Anthony P., assignor.)
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Train control. 1,700,701; Jan. 29.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Continuous inductive train-control system. 1,703,821; Feb. 26.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Hump-yard interlocking. 1,706,851; Mar. 26.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,710,663; Apr. 23.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Universal relay. 1,710,664; Apr. 23.



- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,717,338; June 11.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,717,339; June 11.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,717,340; June 11.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Train control. 1,720,633; July 9.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking machine for railway signaling systems. 1,725,735; Aug. 20.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. System for automatically controlling railway traffic. 1,730,323; Oct. 1.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,730,324; Oct. 1.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Light signal. 1,730,325; Oct. 1.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system. 1,736,729; Nov. 19.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Train control. 1,742,076; Dec. 31.
- Howe, Winthrop K., Rochester, and N. C. L. Brown, Scottsville, assignors to General Railway Signal Company, Rochester, N. Y. Power-operated control apparatus for traffic-controlling systems. 1,703,822; Feb. 26.
- Howe, Winthrop K., and C. S. Bushnell, assignors to General Railway Signal Company, Rochester, N. Y. Trackway apparatus for train-control systems. 1,741,775; Dec. 31.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Standard for motion-picture-projecting machines or the like. Des. 78,023; Mar. 19.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Direct-viewing photographic camera. 1,698,333; Jan. 8.
- Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Spring motor. 1,720,275; July 9.
- Howell, Arthur and F., Hood River, Oreg. Irrigating machine. 1,698,019; Jan. 8.
- Howell, Charles W., Newark, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,700,891; Feb. 5.
- Howell Electric Motors Company. (See Norton, Charles F., assignor.)
- Howell, Frank. (See Howell, Arthur and F.)
- Howell, Frank B., Buffalo, assignor to American Radiator Company, New York, N. Y. Boiler. 1,707,963; Apr. 2.
- Howell, Fred B., Schenectady, N. Y., assignor to General Electric Company. Resilient wheel. 1,717,214; June 11.
- Howell, Gail E., Spokane, Wash. Automobile heating system. 1,704,971; Mar. 12.
- Howell, Glenn G., Columbus, Ohio. Drainage system. 1,712,303; May 7.
- Howell, Kenneth B. (See Perry, R. P., and Howell.)
- Howell, Kenneth L. (See Boyce, J. E., and Howell.)
- Howell, Ulysses N., assignor to Eagle Stove Works, Rome, Ga. Furnace. 1,699,433; Jan. 15.
- Howell, W. H., Company, The. (See Ekvall, Edward E., assignor.)
- Howells, Llewellyn J., Kew, Victoria, Australia. Manufacture of yeast. 1,725,583; Aug. 20.
- Hoyer, Harry C., Chicago, Ill. Automobile tire. Des. 77,601; Jan. 29.
- Hoyer, Harry C., Chicago, Ill. Automobile tire. Des. 79,685; Oct. 22.
- Hoyer, Harry C., Chicago, Ill. Automobile tire. Des. 79,686; Oct. 22.
- Hoyer, Harry C., Chicago, Ill. Tire. Des. 80,227; Dec. 31.
- Hoyer, Harry C., Chicago, Ill. Tire tread. 1,701,482; Feb. 5.
- Hoyer, Harry C., Chicago, Ill. Tire. 1,726,026; Aug. 27.
- Howes, Homer V. (See Carpenter, A. C., Pierce, Brady, and Howes.)
- Howes, Raymond T. (See Black, J. C., Rial, and Howes.)
- Howes, S. M., Company, The. (See Frenning, Alfred B., assignor.)
- Howey, Walter. (See Pearne, F. D., Metcalf, and Howey.)
- Howie Company. (See Diebel, Henry, assignor.)
- Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Welt mechanism for full-fashioned-knitting machines. 1,706,884; Mar. 26.
- Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Stop for preventing rebound of carrier rods of full-fashioned knitting machines. 1,732,751; Oct. 22.
- Howland, Gerald S., Brookline, Mass. Desk calendar. 1,705,116; Mar. 12.
- Howland, Harry W. (See Fournier, Charles R., assignor.)
- Howle, Ernest O., assignor to Mid-West Incinerator Corporation, Chicago, Ill. Incinerator door. 1,701,493; Feb. 12.
- Howlett, Blanche C., Washington, D. C. Sanitary ice tray. 1,726,071; Aug. 27.
- Howlett Construction Company. (See Howlett, William E., assignor.)
- Howlett, M., & Company Limited, et al. (See Dolphin, James, assignor.)
- Howlett, William E., assignor to Howlett Construction Company, Moline, Ill. Coal-chute gate. 1,720,677; July 16.
- Howlett, William E., assignor to Howlett Construction Company, Moline, Ill. Automatic hoist. 1,732,232; Oct. 22.
- Howlett, William L., Los Angeles, Calif. Threading machine. 1,737,310; Nov. 26.
- Howse, W. C. (See Smith, Richard B., assignor.)
- Howse, Wilfred C. (See Smith, Richard B., assignor.)
- Howser, Christopher L. (See Taylor, J. L., and Howser.)
- Howser, Walter M., Indianapolis, Ind. File holder. Re17,516; Dec. 10.
- Howson, Charles T., Silver Creek, N. Y. Corn-husking machine. 1,727,507; Sept. 10.
- Howson, Charles T., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Cherry-pitting machine. 1,701,533; Feb. 12.
- Howson, Charles T., assignor to Huntley Manufacturing Co., Silver Creek, N. Y. Coffee grinder. 1,709,018; Apr. 16.
- Hoxie, Gideon C. (See Berryman, V., and Hoxie.)
- Hoy, Austin Y. (See Rimmer, G., and Hoy.)
- Hoy, Austin Y., London, England, assignor to Sullivan Machinery Company, Chicago, Ill. Coal-cutting machine. 1,702,441; Feb. 19.
- Hoy, Frank H., assignor to Cudahy Brothers Company, Milwaukee, Wis. Sausage casing. 1,741,239; Dec. 31.
- Hoy, Harry L., Chicago, Ill. Change-speed-gear transmission. 1,739,308; Dec. 10.
- Hoy, Henry W., S., Dunedin, Otago, New Zealand. Gramophone. 1,735,283; Nov. 12.
- Hoy, John E. (See Eest, N. A., and Hoy.)
- Hoy, John E. (See Gann, J. A., and Hoy.)
- Hoy, John E., assignor to The Dow Chemical Company, Midland, Mich. Melting pot for light metals and alloys thereof. 1,707,161; Mar. 26.
- Hoyer, Otto A. E., Plaistow, London, England. Geometrical instrument. 1,740,597; Dec. 24.
- Hoyle, Joshua, & Sons, Limited, Inc. (See Kullmann, Joseph, assignor.)
- Hoyt, Daniel, East Orange, assignor to National Lock Washer Company, Newark, N. J. Sash lock. 1,728,276; Sept. 17.
- Hoyt, Jennie K. (See Au, Carl H., assignor.)
- Hoyt, John D., Reno, Nev. Rotary engine. 1,734,433; Nov. 5.
- Hoyt, Ray S., Rutherford, N. J., assignor to American Telephone and Telegraph Company. Electrical network. 1,713,603; May 21.
- Hoyt, Reginald H., Roslindale, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Apparatus for manufacturing electrical condensers. 1,715,035; May 28.
- Hoyt, Robert C., Oakland, Calif. Electric liquid heater. 1,727,881; Sept. 10.
- Hoyt, Simes T., and R. M. Botley, Honolulu, Hawaii. Tray-filling machine. 1,740,893; Dec. 24.
- Hron, Albert G., assignor to Kewaskum Aluminum Co., Kewaskum, Wis. Perculator. 1,719,473; July 2.
- Hrubesky, Clarence B., and F. L. Browne, Madison, Wis. Water-resistant animal glue. 1,712,077; May 7.
- Hruska, Joseph J., Milwaukee, Wis. Internal-combustion engine. 1,732,682; Oct. 22.
- Hubbard, Alfred M., Seattle, Wash., assignor to Radium Spark Plug Corporation. Internal-combustion-engine spark plug. 1,723,422; Aug. 6.
- Hubbard, Cecil R., Newark, assignor to The Garlock Packing Company, Palmyra, N. Y. Packing. 1,712,003; May 7.
- Hubbard, Charles E., Longview, Wash. Shaft coupling. 1,715,293; May 28.
- Hubbard, Charles W., Weston, Mass. Twist-controlling device for twisting and winding machines. 1,724,200; Aug. 13.
- Hubbard and Company. (See Manson, Ralph H., assignor.)
- Hubbard and Company. (See Peirce, Charles L., jr., assignor.)
- Hubbard, Eber J., Berwyn, Ill. Spool. 1,733,598; Oct. 29.
- Hubbard, Edward J. E. (See Brown, W. J., Hubbard, Robinson, and Burch.)
- Hubbard, Edward J. E. (See Robinson, E. Y., and Hubbard.)
- Hubbard, Henry E. (See Duncan, J. S., and Hubbard.)
- Hubbard, Henry E., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Ribbon spool. 1,727,882; Sept. 10.
- Hubbard, Henry E., Chicago, C. C. McCain, Glen Ellyn, and H. L. Thompson, Elgin, assignors, by mesne assignments, to Addressograph Company, Chicago, Ill. Printing machine. 1,721,996; July 23.
- Hubbard, Henry L., Cleveland, Ohio. Lubricating system for automobiles. 1,703,039; Feb. 19.
- Hubbard, Kitty P., Newark, N. J. Tire-spreading tool. 1,719,959; July 2.
- Hubbard, Roy G., Hastings, Mich. Shipping receptacle. 1,735,284; Nov. 12.
- Hubbell, Harry C., assignor to Wico Electric Company, West Springfield, Mass. Ignition apparatus. 1,708,095; Apr. 9.



- Hubbell, Harvey, deceased, Bridgeport, Conn.; L. E. Hubbell, executrix. Aligning electrical fixtures with faceplates. 1,698,231; Jan. 8.
- Hubbell, Harvey, deceased, Bridgeport, Conn., L. E. Hubbell executrix. Locking plug switch. 1,700,437; Jan. 29.
- Hubbell, Harvey, deceased, Bridgeport, Conn.; L. E. Hubbell, executrix. Mounting for switches and receptacles. 1,705,014; Mar. 12.
- Hubbell, Harvey, deceased, Bridgeport, Conn., L. E. Hubbell, executrix. Signal system. 1,726,835; Sept. 3.
- Hubbell, Harvey, deceased, Bridgeport, Conn.; L. E. Hubbell, executrix. Indicating pull socket. 1,736,285; Nov. 19.
- Hubbell, Harvey, Incorporated. (See Blake, Arthur J., assignor.)
- Hubbell, Louie E., executrix. (See Hubbell, Harvey.)
- Hubbell, Ray D. (See Heald, J. N., and Hubbell.)
- Hubbs, George W., executor. (See Hubbs, Willis M.)
- Hubbs, Willis M., Silverton, Oreg., deceased; G. W. Hubbs, executor. Foldable ironing board. 1,730,326; Oct. 1.
- Hübel, Jesse H. (See Pritchard, D. A., and Hubel.)
- Huber, Hans, Ruschlikon, near Zurich, Switzerland. Automatic woodworking machine. 1,722,575; July 30.
- Huber, John H. (See Johnson, Edward H., assignor.)
- Huber, John, St. Louis and M. Rosentreter, University City, Mo. 1,734,381; Nov. 5.
- Huber, John, Wilmington, Del. Flanging apparatus. 1,710,165; Apr. 23.
- Huber, Johannes S. (See Esters, J., and Huber.)
- Huber, Joseph, Jr., Nokomis, Ill. Check holder. 1,715,081; May 28.
- Huber, Otto E., Reading, Pa. Manufacturing elastic lace braid. 1,717,215; June 11.
- Hübl, Franz, Trieste, Italy. Printing machinery. 1,732,683; Oct. 22.
- Hübl, Franz, Vienna, Austria. Spatter printing by means of a mechanically operated and controlled spatter or spraying nozzle. 1,701,568; Feb. 12.
- Huble Manufacturing Company, The. (See Brubaker, Jacob E., assignor.)
- Huble Manufacturing Company. (See Di Silvestro, Joseph, assignor.)
- Hübschman, Jerry, Great Neck, N. Y. Aeroplane. 1,740,016; Dec. 17.
- Huck Axle Corporation. (See Huck, Louis C., assignor.)
- Huck, Louis C., assignor to Huck Axle Corporation, Chicago, Ill. Brake. 1,719,372; July 2.
- Hudd, Alfred E., New Brighton, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Train-control system. 1,731,664; Oct. 15.
- Hudd, Alfred E., New Brighton, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Railway signaling system. 1,738,903; Dec. 10.
- Hudson, Alden, assignor to D. W. Hudson, Green Bay, Wis. Machine for the manufacture of paper articles. 1,714,785; May 28.
- Hudson, Alexander, Round Lake, Minn. Phonograph-record-file holder. 1,707,614; Apr. 2.
- Hudson, Alexander, Round Lake, Minn. Current-controlling mechanism for automobile signals. 1,714,672; May 28.
- Hudson, Alexander M. (See Twetten, Clarence H., assignor.)
- Hudson, Alexander M., New York, N. Y. Bumper. 1,726,956; Sept. 3.
- Hudson, Arthur W., assignor to The Killefer Manufacturing Company, Los Angeles, Calif. Power lift. 1,710,222; Apr. 23.
- Hudson Brass Work, Inc. (See Scheidacker, Hans T., assignor.)
- Hudson, Byron A., Woonsocket, R. I. Snow guard. 1,732,936; Oct. 22.
- Hudson, Charles A., assignor to F. E. Hudson & Sons, Incorporated, Ellisburg, N. Y. Clamping die blocks. 1,741,302; Dec. 31.
- Hudson, Charles B., assignor to The Akron Standard Mold Company Akron, Ohio. Vulcanizer for inner tubes. 1,718,925; June 25.
- Hudson, Charles B., assignor to The Akron Standard Mold Company, Akron, Ohio. Collapsible tire-building drum. 1,731,817; Oct. 15.
- Hudson, Charles P., Philadelphia, Pa. Ice-cream freezer. 1,712,793; May 14.
- Hudson Coal Company, The. (See Cook, Thomas R., assignor.)
- Hudson Coal Company, The. (See Cooper, Robert, assignor.)
- Hudson, David W. (See Hudson, Alden, assignor.)
- Hudson Electrical Heating Corporation. (See Holinger, Emil F., assignor.)
- Hudson, F. E. & Sons, Inc. (See Harroun, William L., assignor.)
- Hudson, F. E., & Sons, Incorporated. (See Hudson, Charles A., assignor.)
- Hudson, Frank L., Pascagoula, Miss. Decoy. 1,708,762; Apr. 9.
- Hudson, Frank W., assignor to J. L. Adams, San Francisco, Calif. Soft-rubber plug and socket body. 1,724,592; Aug. 13.
- Hudson Heating Systems, Inc. (See Holinger, Emil F., assignor.)
- Hudson Manufacturing Company. (See Sarver, Ray D., assignor.)
- Hudson Motor Car Company. (See Fekete, Stephen I., assignor.)
- Hudson Motor Car Company. (See Fekete, S. I., and Northrup, assignors.)
- Hudson Motor Car Company. (See Fekete, S. I., and Toncray, assignors.)
- Hudson Motor Car Company. (See Fekete, S. I., Baits, and Northrup, assignors.)
- Hudson Motor Car Company. (See Groehn, Otto J., assignor.)
- Hudson Motor Car Company. (See Groehn, O. J., and Lamb, assignors.)
- Hudson Motor Car Company. (See Hopkins, R. Z., and Seger, assignors.)
- Hudson Motor Car Company. (See Northrup, Homer M., assignor.)
- Hudson Motor Car Company. (See Rumely, Vincent F., assignor.)
- Hudson Motor Car Company. (See Toncray, Millard H., assignor.)
- Hudson-Sharp Machine Company. (See Campbell, Samuel J., assignor.)
- Hudson, William F., Philadelphia, Pa. Amusement and exercising device. 1,712,703; May 14.
- Hudspith, Joseph G., assignor of one-half to N. S. Lewin, San Luis Obispo, Calif. Abrading device. 1,707,162; Mar. 26.
- Hue, Harold P., Warren, Pa. Ash remover for vehicles. 1,699,068; Jan. 15.
- Hueber, Henry. (See Horton, E. C., and Hueber.)
- Hueber, Henry. (See Oishei, J. R., and Hueber.)
- Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Automatic windshield cleaner. 1,697,358; Jan. 1.
- Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Automatic windshield cleaner. 1,716,135; June 4.
- Hueber, Henry, assignor to Trico Products Corporation, Buffalo, N. Y. Valve means for fluid-pressure motors. 1,726,226; Aug. 27.
- Huebner, Harry G., Philadelphia, Pa. Holding neckties. 1,731,745; Oct. 15.
- Huebner, Irwin, Allentown, Pa. Automobile radiator ventilator. 1,712,111; May 7.
- Huebner, William C., Chicago, Ill. Printing machine. 1,727,600; Sept. 10.
- Huebner, William C., Buffalo, N. Y. Method of and appliance for color identification, analysis, and reproduction. 1,703,449; Feb. 26.
- Huebner, William C., Buffalo, N. Y. Printing-press roller. 1,727,978; Sept. 10.
- Huebner, William C., Buffalo, N. Y. Preparing and registering printing sheets or films. 1,736,914; Nov. 26.
- Huebsch, Marie, New York, N. Y. Hygienic device. 1,731,665; Oct. 15.
- Hueller, Walter, West New York, N. J. Tension mechanism for embroidering machines. 1,704,128; Mar. 5.
- Huempfer, Ferdinand W., Oak Park, Ill. Gummed-tape dispenser. 1,708,725; Apr. 9.
- Huenefeld, Walter E., Cincinnati, Ohio. Stovepipe or the like. 1,739,233; Dec. 10.
- Huestis, Thomas B., assignor to National India Rubber Company, Bristol, R. I. Making insulated electrical conductors. 1,736,444; Nov. 19.
- Huet, Albert, Loignes, assignor to Ateliers de Constructions Electriques de Charleroi Societe Anonyme, Brussels, Belgium. Electric transformer. 1,724,935; Aug. 20.
- Hueter, Ernst, Darmstadt, Germany. Sound generator. 1,740,651; Dec. 24.
- Huetting, Arno R., Erie, Pa., assignor to American Meter Company, New York, N. Y. Gas-meter diaphragm. 1,719,978; July 9.
- Huetting, Arno R., Stratford, Conn., assignor to American Meter Company, Incorporated, New York, N. Y. Gas meter. 1,699,145; Jan. 15.
- Huey, James E., Wilmington, N. C. Automatic switch. 1,735,761; Nov. 12.
- Huey, Leslie P., St. Louis, Mo. Memorandum book. 1,735,318; Nov. 12.
- Huff, Allen E., Bellevue, Ohio. Vehicle lamp. 1,733,540; Oct. 29.
- Huff, Charles A., Philadelphia, Pa. Clipping device. 1,736,041; Nov. 19.
- Huff, Charles C., Clarks, Nebr. Sharpener for disk barrows. 1,731,533; Oct. 15.
- Huff, J. W., et al. (See Owen, William H., assignor.)
- Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for removing carbonaceous material from oil-treating apparatus. 1,703,623; Feb. 26.
- Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for the conversion of hydrocarbons. 1,716,136; June 4.
- Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Decipherator or fractionating column. 1,741,519; Dec. 31.
- Huff, Lyman C., and A. G. Bogardus, assignors to Universal Oil Products Company, Chicago, Ill. Safety appliance. 1,703,624; Feb. 26.
- Huff, Thomas H., Ogdenburg, N. Y., assignor to Keystone Aircraft Corporation. Dusting apparatus. 1,722,467; July 30.



- Huff, Victor C., East Orange, N. J. Nut lock. 1,740,094; Dec. 17.
- Huff, Wilbert J., Pittsburgh, Pa. Cleaning firearms. 1,719,933; July 9.
- Hufferd, George H., Detroit, Mich., assignor to Thompson Products Inc., Cleveland, Ohio. Universal coupling. 1,705,731; Mar. 19.
- Hufferd, George H., and M. P. Graham, Detroit, Mich., assignors to Thompson Products Inc., Cleveland, Ohio. Making tubular front axles. 1,721,695; July 23.
- Hufferd, George H., and M. P. Graham, Detroit, Mich., assignors to Thompson Products Inc., Cleveland, Ohio. Steering-joint assembly. 1,733,599; Oct. 29.
- Hufferd, Lewis, Lodi, N. Y. Screen. 1,718,149; June 18.
- Huffine, Kenneth W., assignor, by mesne assignments, to Banner Rock Corporation, Alexandria, Ind. Insulating structure. 1,734,209; Nov. 5.
- Huffman, Charles A., Longview, Wash., assignor of one-half to The Long-Bell Lumber Company, Kansas City, Mo. Yielding anvil-knife table for masticating hogs. 1,735,823; Nov. 12.
- Huffman, Charles A., Longview, Wash., assignor of one-half to The Long-Bell Lumber Company, Kansas City, Mo. Yielding anvil-knife door for grinding or masticating hogs. 1,735,824; Nov. 12.
- Huffman, Horace M., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Valve wheel. Des. 78,576; May 21.
- Huffman, John H., assignor of one-half to C. P. Simonton, Covington, Tenn. Lawn-mower sharpener. 1,707,396; Apr. 2.
- Huffman, Louis, assignor to Toronto Type Foundry Company, Limited, Toronto, Ontario, Canada. Manufacturing book. 1,730,148; Oct. 1.
- Huffman Manufacturing Company, The. (See Huffman, Horace M., assignor.)
- Huffman, Samuel C., Lincoln, Nebr. Storage file. 1,697,359; Jan. 1.
- Huffman, Samuel C., Lincoln, Nebr. Box closure. 1,697,360; Jan. 1.
- Huffmaster, Marshal L., et al. (See Philyaw, Jeff D., assignor.)
- Hufford, Harry J., Scranton, Pa. Thread cleaner. 1,708,726; Apr. 9.
- Hufford, Harry J., Scranton, Pa. Thread cleaner. 1,722,218; July 23.
- Hufford, Harry J., Scranton, Pa. Thread-guiding means. 1,722,219; July 23.
- Hufford, Raymond, New York, N. Y., assignor, by mesne assignments, to Handy Governor Corporation, Detroit, Mich. Automatic governor for internal-combustion engines. 1,710,311; Apr. 23.
- Hufschmidt, Carl, Westenfeld, near Wattenscheid, Germany. Water-softening filter and regenerating and purifying the same. 1,719,458; July 2.
- Hufschmidt, Carl, Westenfeld, near Wattenscheid, Germany. Powdered-fuel furnace. 1,729,217; Sept. 24.
- Hug, Christian J., assignor to The Hug Company, Highland, Ill. Measuring device. 1,735,249; Nov. 12.
- Hug Company, The. (See Hug, Christian J., assignor.)
- Huggins, Edward M. (See Macdonald, A. S., Waite, and Huggins.)
- Huggins, James D., Boiling Springs, N. C. Brooder. 1,740,402; Dec. 17.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Company, Inc., New York, N. Y. Electric-current-measuring instrument. 1,709,851; Apr. 23.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Company, Inc., New York, N. Y. Electric indicating instrument and casing therefor. 1,712,560; May 14.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Company, Inc., New York, N. Y. Mounting for indicating instruments. 1,715,502; June 4.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Company, Inc., New York, N. Y. Liquid-measuring device. 1,723,172; Aug. 6.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Company, Inc., New York, N. Y. Measuring the quantity of liquid in tanks. 1,723,173; Aug. 6.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Company, Inc., New York, N. Y. Current-flow-regulating means. 1,727,844; Sept. 10.
- Huggins, Merion J., Upper Saddle River, N. J., assignor to Auto-Meter Company, Inc., New York, N. Y. Electric-current measuring and indicating means. 1,738,651; Dec. 10.
- Hughes, Albert J., St. Paul, Minn. Liquid-heating attachment. 1,707,122; Mar. 26.
- Hughes, Arthur S., assignor to The Hughes-Keenan Company, Mansfield, Ohio. Front-axle cushion for tractors. 1,721,957; July 23.
- Hughes, Arthur S., and H. F. Gorsuch, assignors to The Hughes-Keenan Company, Mansfield, Ohio. Body mounting for tractors. 1,736,787; Nov. 26.
- Hughes, Burton S. and S., Buffalo, N. Y. Evaporator. 1,717,927; June 18.
- Hughes, Charles H., Bentonville, Ark. Fruit-grading machine. 1,706,734; Mar. 26.
- Hughes, Charles J. (See Whiting, H. A., Hughes, and Maher.)
- Hughes, Charles R., Altoona, Pa. Mining machine. 1,741,714; Dec. 31.
- Hughes, Claude W., Houston, Tex. Pumping mechanism. 1,717,688; June 18.
- Hughes, Cloud D., Kennett Square, Pa. Folded blank box. 1,726,108; Aug. 27.
- Hughes, Daniel J. (See Martin, F. L., Hughes, and McNellis, assignors.)
- Hughes, Earl V., Peru, Ind. Radiocabinet. Des. 78,625; May 28.
- Hughes, Eugene F. (See Martin, F. L., Hughes, and McNellis.)
- Hughes, Frederick C., Spokane, Wash. Automobile signal. 1,732,234; Oct. 22.
- Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Antifriction bearing and separator therefor. 1,697,064; Jan. 1.
- Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Separator and method therefor. 1,712,076; May 7.
- Hughes, George, Canton, Ohio. Metallic structural element for buildings. 1,704,745; Mar. 12.
- Hughes, Henry D., Dallas, Tex. Counterflow condenser. 1,700,498; Jan. 29.
- Hughes, Howard R., H. B. Lewis, and B. Burns, Houston, Tex. Method and mechanism for controlling motors. 1,715,082; May 28.
- Hughes, Hugh, jr., J., and W., Detroit, Mich. Brake equalizer. 1,704,435; Mar. 5.
- Hughes, Hugh T., Cleveland, assignor to G. L. Benford, Spencer, Ohio. Snubbing device for automobile springs. 1,717,978; June 18.
- Hughes, Jacob H., Wichita, Kans. Road drag and land leveler. 1,711,350; Apr. 30.
- Hughes, James R., assignor to the Studebaker Corporation, South Bend, Ind. Vehicle body cowl. Des. 77,772; Feb. 19.
- Hughes, James R., South Bend, Ind., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Radiator. Des. 79,372; Sept. 10.
- Hughes, James R., South Bend, Ind., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Combination of automobile radiator, hood, lamps, and fenders. Des. 79,373; Sept. 10.
- Hughes, James R., South Bend, Ind., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Combined fender, head lamp, and parking lamp for vehicles. Des. 80,228; Dec. 31.
- Hughes, James R., South Bend, Ind., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Combined fender and lamp casing for vehicles. Des. 80,229; Dec. 31.
- Hughes, James R., assignor to The Studebaker Corporation, South Bend, Ind. Vehicle body. 1,696,955; Jan. 1.
- Hughes, James R., assignor to The Studebaker Corporation, South Bend, Ind. Steering-post column. 1,714,786; May 28.
- Hughes, James W., assignor to Budd Wheel Company, Philadelphia, Pa. Disk-rolling mill. 1,741,715; Dec. 31.
- Hughes, John. (See Hughes, Hugh, jr., J., and W.)
- Hughes, John A., Waco, Tex. Attachment for car couplers. 1,717,036; June 11.
- Hughes, John T., Council Bluffs, Iowa. Adjustable steering post for automobiles. 1,703,485; Feb. 26.
- Hughes, John T., New York, N. Y. Device for elevating lines. 1,736,599; Nov. 19.
- Hughes-Keenan Company, The. (See Hollnagel, Theodore C., assignor.)
- Hughes-Keenan Company, The. (See Hughes, Arthur S., assignor.)
- Hughes-Keenan Company, The. (See Hughes, A. S., and Gorsuch, assignors.)
- Hughes, Lafayette M. (See Mitchell, Thomas A., assignor.)
- Hughes, Roland M., Greenville, S. C. Loom. 1,698,913; Jan. 15.
- Hughes, Roland T., Oak Park, Ill. Convenience outlet. 1,740,652; Dec. 24.
- Hughes, Samuel, North Charleston, S. C., assignor to The Raybestos Company, Bridgeport, Conn. Making brake linings. 1,721,696; July 23.
- Hughes, Stanley. (See Hughes, Burton S. and S.)
- Hughes Tool Company. (See Scott, Floyd L., assignor.)
- Hughes Tool Company. (See Wellensiek, Louis H., assignor.)
- Hughes, Victor. (See Short, C. R., and Hughes.)
- Hughes, Vincent L., assignor to I. L. Lindeblad, Chicago, Ill. Kitchen utensil. 1,698,814; Jan. 15.
- Hughes, Walter J., Fort Wayne, Ind., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Water-softening apparatus. 1,701,719; Feb. 12.
- Hughes, William. (See Hughes, Hugh, jr., J., and W.)
- Hughes, William, Taunton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Ornamental eyelet and article ornamented therewith. 1,721,819; July 23.
- Hughes, William J., assignor to Manifold Supplies Company, Brooklyn, N. Y. Tempering transfer web-coating material. 1,717,341; June 11.
- Hughes, William W., Rutherford, assignor to New York Belting & Packing Company, Passaic, N. J. High-pressure hose. 1,726,957; Sept. 3.
- Hughett, Clarence W., Fresno, Calif. Poison container. 1,729,389; Sept. 24.
- Hugo, George D., Seattle, Wash. Brake-operating mechanism. 1,710,926; Apr. 30.



- Huguenin, Albert, Paris, France. Movable wheel for reversible rotary machines and particularly for hydraulic turbines. 1,716,134; June 4.
- Huguley, Carl M., San Diego, Calif. Mop head. 1,726,663; Sept. 3.
- Hugy, Charles W., San Jose, Calif. Stove. 1,729,218; Sept. 24.
- Huie, Oliver J., Atlanta, Ga. Platenless typewriter. 1,723,240; Aug. 6.
- Huismann, Johann. (See Schweitzer, H., and Huismann.)
- Hulbert, Edwin F., Milwaukee, Wis. Container. 1,702,606; Feb. 19.
- Hulbert, Edwin F., assignor to The Master Package Corporation, Owen, Wis. Container. 1,700,164; Jan. 29.
- Hulbert, Edwin F., Milwaukee, Wis., assignor, by mesne assignments, to The Master Package Corporation. Container closure. 1,711,642; May 7.
- Hulbert, Edwin F., assignor to The Master Package Corporation, Owen, Wis. Stapling device. 1,711,683; May 7.
- Hulbert, Edwin F., Milwaukee, assignor to The Master Package Corporation, Owen, Wis. Container. 1,738,951; Dec. 10.
- Hulbert, Edwin F., assignor to The Master Package Corporation, Owen, Wis. Container. 1,738,952; Dec. 10.
- Hulbert, John L., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine installation. 1,718,822; June 25.
- Hulin, Joseph, North Chicago, Ill. Ticket-vending machine. 1,736,710; Nov. 19.
- Hulit, John A., Villa Park, Ill. Telegraphic sending apparatus. 1,718,784; June 25.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,699,146; Jan. 15.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Charging of storage batteries. 1,717,563; June 18.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,721,395; July 16.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Circuit breaker. 1,723,858; Aug. 6.
- Hull, Alva M., Detroit, Mich. Building construction. 1,732,752; Oct. 22.
- Hull, Arthur, Decatur, Ill. Tire tool. 1,706,528; Mar. 26.
- Hull, Arthur B., assignor to "Friend" Manufacturing Company, Gasport, N. Y. Spraying device. 1,714,224; May 21.
- Hull, Edwin H. (See Kimball, A. L., jr., and Hull.)
- Hull, Edwin H., Schenectady, N. Y., assignor to General Electric Company. Refrigerating machine. 1,698,306; Jan. 8.
- Hull, George A., assignor to Equipment Specialties Co., Chicago, Ill. Refrigerator car. 1,741,630; Dec. 31.
- Hulbert, George J., Seattle, Wash. Arbor. 1,738,145; Dec. 3.
- Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast device for controlling the direction of the abrasive stream. 1,710,166; Apr. 23.
- Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast barrel. 1,710,167; Apr. 23.
- Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast abrasive reclaiming and mixing. 1,710,168; Apr. 23.
- Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast machine for applying pressure to abrasives. 1,710,169; Apr. 23.
- Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast-barrel loading. 1,710,479; Apr. 23.
- Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast barrel and elevator drive. 1,711,024; Apr. 30.
- Hull, Foster J., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast table. 1,713,065; May 21.
- Hull, Harry B. (See Warner, C., and Hull.)
- Hull, Harry B., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,719,841; July 9.
- Hull, Harry B., and C. Warner, Dayton, Ohio, assignors, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,728,970; Sept. 24.
- Hull, Harry E., Washington, D. C. Motor-vehicle control pedals. Re17,520; Dec. 10.
- Hull, Homer H., Fruitport, Mich. Wire tightener. 1,709,019; Apr. 16.
- Hull, John A. (See Brooks, Jeremiah V., assignor.)
- Hull, John C., Lockport, N. Y. High-pressure pump. 1,719,373; July 2.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,706,164; Mar. 19.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Speed-control system. 1,706,165; Mar. 19.
- Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Brush-shifting device. 1,734,907; Nov. 5.
- Hull, John C., Gasport, N. Y. Spray gun. 1,740,241; Dec. 17.
- Hull, Lewis M. (See Ballantine, S., and Hull.)
- Hull, Lewis M., assignor to Radio Frequency Laboratories Incorporated, Bounton, N. J. Molding mixture. 1,708,576; Apr. 9.
- Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Automobile body. 1,720,790; July 16.
- Hull, Matthew R., assignor to Rex Manufacturing Company, Connersville, Ind. Automobile body. 1,731,495; Oct. 15.
- Hull, Robert W., assignor to Rex Manufacturing Company, Connersville, Ind. Refrigerator-cabinet structure. 1,716,778; June 11.
- Hull, Sidney M., Waukesha, Wis., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating composition and forming the same. 1,697,870; Jan. 8.
- Hull, Sidney M., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Organic molding composition. 1,711,025; Apr. 30.
- Hull, Sidney M., Western Springs, Ill. Method and apparatus for reproducing sound. 1,734,675; Nov. 5.
- Hullsick, Karl L. (See Walter, H. P., and Hullsick.)
- Hulme, John G., Chisholm, Minn. Haircloth and bib holder. 1,734,626; Nov. 5.
- Hulme, John W., Jackson Heights, N. Y. Zoning and fare-collecting system. 1,737,422; Nov. 26.
- Hulsbruch, Walter, Dortmund, Germany, assignor to The firm Vereinigte Stahlwerke A. G. Dusseldorf. Alloy-steel building material. 1,727,775; Sept. 10.
- Hulse, Edward P., Westfield, N. J. Printer's spacing element. 1,732,233; Oct. 22.
- Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Regulating apparatus. 1,701,676; Feb. 12.
- Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Supporting fixture. 1,735,652; Dec. 10.
- Hulsebos, Albert B., Holland, Mich. Automobile identification. 1,707,723; Apr. 2.
- Hulsemann, Henry E., Evansville, Ind. Loose-leaf binder. 1,731,927; Oct. 15.
- Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Chuck for rock drills. 1,716,443; June 11.
- Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tools. 1,726,352; Aug. 27.
- Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,739,143; Dec. 10.
- Hulson Grate Company. (See Hulson, John W., assignor.)
- Hulson, John W., assignor to Hulson Grate Company, Keokuk, Iowa. Grate structure. 1,715,294; May 28.
- Hult, John A., assignor to The American Multigraph Company, Cleveland, Ohio. Printing mechanism. 1,711,148; Apr. 30.
- Hult, John A., assignor to The American Multigraph Sales Company, Cleveland, Ohio. Work-ejecting mechanism for printing apparatus. 1,721,022; July 16.
- Hultgren, Axel G. E., Soderfors, Sweden. Salt-bath furnace. 1,713,472; May 14.
- Hultgren, Charles, assignor to S. Karpen & Bros., Chicago, Ill. Sofa bed. 1,712,145; May 7.
- Hultgren, Charles R., assignor to S. Karpen & Bros., Chicago, Ill. Sofa bed. 1,712,146; May 7.
- Hultgren, Charles, assignor to S. Karpen & Bros., Chicago, Ill. Machine for serving tacks, nails, etc. 1,727,063; Sept. 3.
- Hultgren, Charles R., assignor to S. Karpen & Bros., Chicago, Ill. Press device. 1,733,734; Oct. 29.
- Hultgren, Charles, assignor to S. Karpen & Bros., Chicago, Ill. Day bed. 1,740,593; Dec. 24.
- Hultman, Edgar W., assignor of one-fourth to F. P. Duncklee, one-fourth to J. Monteleone, and one-fourth to W. R. Simons, Los Angeles, Calif. Rubberlike substance and obtaining the same. 1,704,194; Mar. 5.
- Hulva, Lester W., and G. A. Williams, San Diego, Calif., said Hulva assignor to said Williams. Storage-battery liquid-leak detector and filler. 1,737,848; Dec. 3.
- Hymanson, Granville A., Houston, Tex. Apparatus for lowering material into and withdrawing material from wells. 1,697,599; Jan. 1.
- Humbarger, Heber E., Decatur, Ind. Butter mold. 1,711,532; May 7.
- Humble Oil & Refining Company. (See Wiess, Harry C., assignor.)
- Humboldt Sulphur Company. (See Crowley, Arthur J., assignor.)
- Humboldt Sulphur Company. (See Crowley, A. J., and Haley, assignors.)
- Hume, Fred, St. Louis, Mo., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-toe-ironing machine. 1,714,560; May 28.
- Hume, Herbert, Monterey, Calif. Can drainer. 1,710,927; Apr. 30.
- Hume, James P., Chicago, Ill. Chain gearing. 1,703,530; Feb. 26.
- Hume, John E., and W. H. King, Clinton, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin support for welt-replenishing mechanism. 1,703,935; Mar. 5.
- Hume, John T., assignor to Hurley Machine Company, Chicago, Ill. Ironing machine. 1,701,720; Feb. 12.
- Hume, John T., assignor to Electric Household Utilities Corporation, Chicago, Ill. Ironing machine. 1,704,129; Mar. 5.
- Hume, John T., assignor to Electric Household Utilities Corporation, Chicago, Ill. Ironing machine. 1,712,958; May 14.



- Hume, Walter R., Melbourne, Victoria, Australia. Electric welding apparatus. 1,710,258; Apr. 23.
- Hume, Walter R., Melbourne, Victoria, Australia. Welding. 1,717,779; June 18.
- Hume, Walter R., Melbourne, Victoria, Australia. Crushing or pulverizing machine. 1,719,549; July 2.
- Hummel, Charles. (See Langguth, W., and Hummel.)
- Hummel, Charles E., Ilion, and W. L. Peters, Herkimer, N. Y. Top. 1,723,483; Aug. 6.
- Hummel & Downing Co. (See Ethridge, Albert S., assignor.)
- Hummel, Frederick E., and J. J. Noeth, Chicago, Ill. Family bread toaster. 1,697,914; Jan. 8.
- Hummel, Frederick E., and J. J. Noeth, Chicago, Ill. Machine for preparing toast, toasted sandwiches, baked waffles, and the like. 1,701,677; Feb. 12.
- Hummel, Frederick E., and J. J. Noeth, Chicago, Ill. Bread toaster. 1,717,979; June 18.
- Hummel, Markus R., Austin, Minn. Golf cup. 1,723,859; Aug. 6.
- Hummel, William E., Santa Barbara, Calif. Glareshield for rear-view mirrors. 1,728,123; Sept. 10.
- Hummer, Charles I., Newark, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-car-dome closure. 1,699,533; Jan. 22.
- Hummer, Charles I., Newark, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank dome. 1,706,064; Mar. 19.
- Hummert, Robert H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Spotlight for automobiles and the like. 1,720,836; July 16.
- Hump Hairpin Manufacturing Co., The. (See Goldberg, S. H., and Hermsdorf, assignors.)
- Hump Hairpin Manufacturing Company, The. (See Goldberg, Solomon H., assignor.)
- Humphrey, Clifford W. (See Lea, H. I., and Humphrey.)
- Humphrey, George A., assignor to General Gas Light Company, Kalamazoo, Mich. Gas stove. 1,718,960; July 2.
- Humphrey, George C. (See Glaze, H. L., and Humphrey.)
- Humphrey, Glen S., Brooklyn, assignor to Continental Can Company, Inc., New York, N. Y. Container cover. 1,736,286; Nov. 19.
- Humphrey, Herbert A., Stockton-on-Tees, assignor to Imperial Chemical Industries Limited, London, England. Centrifugal apparatus. 1,714,370; May 21.
- Humphrey, Hubert R., assignor to General Gas Light Company, Kalamazoo, Mich. Gas Stove. 1,702,900; Feb. 19.
- Humphrey, Hubert R., assignor to General Gas Light Company, Kalamazoo, Mich. Electric heater. 1,707,982; Apr. 9.
- Humphrey, Hubert R., assignor to General Gas Light Company, Kalamazoo, Mich. Gas stove. 1,707,983; Apr. 9.
- Humphrey, Hubert R., assignor to General Gas Light Company, Kalamazoo, Mich. Cooking stove. 1,718,961; July 2.
- Humphrey, Hubert R., assignor to General Gas Light Company, Kalamazoo, Mich. Radiating element for electric heaters. 1,734,382; Nov. 5.
- Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Refining rosin. 1,715,083; May 28.
- Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Refining rosin. 1,715,086; May 28.
- Humphrey, Irvin W., Dover, N. J., and L. N. Bent, Holly Oak, Del., assignors to Hercules Powder Company, Wilmington, Del. Refining wood rosin. 1,737,763; Dec. 3.
- Humphrey, Walter H. (See Harris, Walter H., assignor.)
- Humphrey, William K., Moose Jaw, Saskatchewan, Canada. Machine for distributing poison for gophers. 1,702,300; Feb. 19.
- Humphreys, Charles F., and J. C. McCarthy, assignors to Armstrong Cork Company, Lancaster, Pa. Surface covering and ornamenting the same. 1,697,426; Jan. 1.
- Humphreys, Edwin S., assignor to Aurora X-ray Mfg. Co., Aurora, Ill. X-ray apparatus. 1,727,883; Sept. 10.
- Humphreys, Henry, Oldham, England. Magnetic chuck. 1,730,730; Oct. 8.
- Humphreys, Ira B., Denver, Colo. Spring. 1,710,430; Apr. 23.
- Humphreys, Ira B., and G. H. Denton, Denver, Colo. Clutch. 1,703,040; Feb. 19.
- Humphreys, Omar R., Omaha, Nebr. Worm gearing. 1,707,724; Apr. 2.
- Humphreys, Richard D., Mount Kisco, N. Y., assignor to Mississippi Glass Company. Method and apparatus for producing sheet glass. 1,697,504; Jan. 1.
- Humphreys, William H., Yonkers, N. Y., and W. J. Pollock, Bronx, N. Y. Electric fuse. 1,739,309; Dec. 10.
- Humphries, Albert G., Pittsburg, and A. F. Bonnalie, San Francisco, Calif. Track lubricator. 1,728,412; Sept. 17.
- Humphries, Herbert B. P., London, England. Antislipping tread. 1,714,026; May 21.
- Humphris, Frank, Parkstone, Dorset, England. Perforated or expanded metal. 1,704,608; Mar. 5.
- Humphris, Frank, Parkstone, Dorset, England. Joining or affixing perforated or expanded sheet metal. 1,721,396; July 16.
- Humphris, Frank, Parkstone, England. Press tool for punching and stamping sheet metal and the like. 1,725,534; Aug. 20.
- Hund, August, Bethesda, Md., assignor to Wired Radio, Inc., New York, N. Y. Producing oscillations from piezo-electric plates. 1,717,451; June 18.
- Hundt, Otto. (See Schmidt, B., and Hundt.)
- Hungerford, Arthur M., Seattle, Wash. Tractor bed. 1,718,046; June 18.
- Hungerford, Henry H., Chicago, Ill., assignor to National Biscuit Co., New York, N. Y. Cutting and panskip machine. 1,707,477; Apr. 2.
- Hungerford, Warren H., Chicago, Ill. Biscuit-facing machine. 1,700,438; Jan. 29.
- Hungerford, Warren H., Chicago, Ill. Biscuit facing and stacking machine. 1,702,901; Feb. 19.
- Hunker, Martin L., assignor to The Reeves Manufacturing Company, Dover, Ohio. Striping machine. 1,718,047; June 18.
- Hunkins, William S., Hollywood, Calif. Pin tube. 1,699,969; Jan. 22.
- Hunneman, Carleton, jr., Brookline, Mass. Drier. 1,740,653; Dec. 24.
- Hunneman, Roger D. (See Wilson, R. E., Hunneman, Bahlke, and Rogers.)
- Hunnicut, Charles. (See Locke, G. N., and Hunnicutt.)
- Hunt, Alfred E. (See Campbell, C. S., and Hunt.)
- Hunt, Alfred E., New Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,733,303; Oct. 29.
- Hunt, Alfred E., New Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,741,303; Dec. 31.
- Hunt, Andrew M., New York, N. Y., assignor to Standard Stoker Company, Incorporated. Stoker conveyer. 1,724,593; Aug. 13.
- Hunt, Arthur E. (See Abbott, C. C., and Hunt.)
- Hunt Bros. Packing Co. (See May, Joseph A., assignor.)
- Hunt, C. Howard, Pen Company. (See Dellmuth, Enos B., assignor.)
- Hunt, Charles A., Oakland, Calif. Railroad joint. 1,715,837; June 4.
- Hunt, Charles L., and N. J. Hill, assignors to Non-Refillable Container, Inc., St. Louis, Mo. Liquid container. 1,732,753; Oct. 22.
- Hunt, Chester, and F. E. Bertrand, Lynn, Mass, assignors to United Shoe Machinery Corporation, Paterson, N. J. Stretching machine. 1,722,294; July 30.
- Hunt, Clarence E., Monterey Park, Calif. Piano-pedal extension. 1,740,017; Dec. 17.
- Hunt, Emmett, Lemont Furnace, Pa. Tool holder. 1,713,230; May 14.
- Hunt, Francis H., Los Angeles, Calif., assignor to Raymond Concrete Pile Company, New York, N. Y. Excavating apparatus. 1,726,565; Sept. 3.
- Hunt, George W., Baltimore, Md. Load-tightening low-tension bolt rail joint. 1,712,349; May 7.
- Hunt, German B., and M. M. Hunt, Monroe, La. Apparatus for prolonging the life of cut flowers. 1,739,462; Dec. 10.
- Hunt, Harry D., Miami, Ariz. Ore flotation apparatus and method. 1,732,893; Oct. 22.
- Hunt, Helm, Ferris & Company. (See Ferris, Henry L., assignor.)
- Hunt, Helm, Ferris & Company. (See Ferris, Howard J., assignor.)
- Hunt, Howard W. (See Cardullo, F. E., and Hunt.)
- Hunt, J. Harold. (See Budd, E. G., and Hunt.)
- Hunt, J. Harold, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Carrier for spare wheels. 1,724,655; Aug. 13.
- Hunt, J. Harold, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Securing wheel disks to rims. 1,741,716; Dec. 31.
- Hunt, J. M. (See Hackney, Arthur G., assignor.)
- Hunt Hydro Burner Company. (See Hunt, John A., assignor.)
- Hunt, James E., St. Joseph, Mo. Booth. Des. 78,027; Mar. 19.
- Hunt, John A., Boston, assignor to Hunt Hydro Burner Company, Worcester, Mass. Burner. 1,733,735; Oct. 29.
- Hunt, John H., assignor to General Motors Research Corporation, Detroit, Mich. Cooling system. 1,717,689; June 18.
- Hunt, John H., assignor to General Motors Research Corporation, Dayton, Ohio. Steering mechanism. 1,737,048; Nov. 26.
- Hunt, John H., Detroit, Mich., and J. T. Fitzsimmons, Anderson, Ind., assignors to Delco-Remy Corporation, Dayton, Ohio. Lighting and ignition apparatus. 1,700,892; Feb. 5.
- Hunt, John H., and T. H. Millar, jr., assignor to General Motors Corporation, Detroit, Mich. Four-speed-transmission gate device. 1,727,646; Sept. 10.
- Hunt, John O., Brooklyn, N. Y., assignor to Hunt's Modern Paper Products, Inc., New York, N. Y. Sheet of folded material. 1,706,166; Mar. 19.
- Hunt, John O., assignor to B. A. Furiati, Brooklyn, N. Y. Meat holder. 1,727,979; Sept. 10.
- Hunt, John O., assignor to B. A. Furiati, Brooklyn, N. Y. Meat holder. 1,727,980; Sept. 10.
- Hunt, Joseph W., Dubuque, Iowa. Agitator. 1,711,114; Apr. 30.
- Hunt, Joseph W., Dubuque, Iowa. Mop. 1,716,697; June 11.
- Hunt, Mary M. (See Hunt, German B. and M. M.)



- Hunt, Ormond E., assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,713,872; May 21.
- Hunt, Rodney, Machine Co. (See Harris, Carl C., assignor.)
- Hunt, Rodney, Machine Company. (See Biggs, George A., assignor.)
- Hunt, Rodney, Machine Company. (See Rooney, Michael F., assignor.)
- Hunt, Seth B., trustee. (See Isham, Robert M., assignor.)
- Hunt, Sydney, Birmingham, England. Machine for the manufacture of glass articles. 1,720,552; July 9.
- Hunt, Sydney, Birmingham, England. Machine for the manufacture of glass articles. 1,722,247; July 23.
- Hunt, Sydney, Birmingham, England. Machine for the manufacture of glass articles. 1,739,145; Dec. 10.
- Hunt, Warren T., assignor to The Willys-Overland Company, Toledo, Ohio. Cooling system. 1,741,464; Dec. 31.
- Hunt, William A., Holden, W. Va. Rail-tie connection. 1,707,615; Apr. 2.
- Hunt, William C., Toronto, Ontario, Canada. Electric heater and cooker. 1,708,504; Apr. 9.
- Hunt, William H. (See Meissner, C. and Hunt.)
- Hunt, Wilson P., Moline, Ill. Automatic control for lapping machines. 1,704,130; Mar. 5.
- Huntar, Felix, Hillside, N. J. Can-double-seaming machine. 1,699,069; Jan. 15.
- Huntermüller, Carl, Weissenborn, near Freiberg, Germany. Tank-charging appliance. 1,716,059; June 4.
- Hunter, Arthur T., Webster Groves, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y. Furnace water wall and wall element. 1,732,514; Oct. 22.
- Hunter, Arthur T., University City, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y. Forming an extension upon tubes. 1,732,515; Oct. 22.
- Hunter, Arthur T., University City, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y. Apparatus and method for forming extensions upon tubes. 1,738,056; Dec. 3.
- Hunter, David E., assignor to Shaw Walker Company, Muskegon, Mich. Vertical filing device. 1,708,017; Apr. 9.
- Hunter, David E., assignor to Shaw-Walker Company, Muskegon, Mich. Vertical filing cabinet. 1,734,168; Nov. 5.
- Hunter, Edgar K., and J. R. C. August, London, England; said Hunter assignor to said August. Setting mechanism. 1,723,784; Aug. 6.
- Hunter, Edgar K., assignor to J. R. C. August, London, England. Photographic-printing process and apparatus therefor. 1,732,049; Oct. 15.
- Hunter, Frederick L., Jr., Towaco, assignor to De Forest Radio Telephone & Telegraph Co., Jersey City, N. J. Electron-discharge device. 1,722,468; July 30.
- Hunter, George B., assignor to Hunter Manufacturing Company, Washington, D. C. Broom bridle. 1,702,005; Feb. 12.
- Hunter, G. G. Guthrie, et al. (See Trenzen, Carl, assignor.)
- Hunter, Hugh W., Danbury, Conn. Hat-blocking machine. 1,698,595; Jan. 8.
- Hunter, James, Machine Company. (See Buck, Lucien, assignor.)
- Hunter, James S., Chicago, Ill. Lard-refining device. 1,698,756; Jan. 15.
- Hunter, James T., Philadelphia, Pa., assignor to J. M. Allen and K. W. Allen, Toronto, Canada. Hosiery and making same. 1,699,534; Jan. 22.
- Hunter, John F., St. Louis, Mo. Compartment closet. 1,731,746; Oct. 15.
- Hunter, John S., Coalinga, Calif. Power transmitter. 1,698,194; Jan. 8.
- Hunter, John S., Coalinga, Calif. Power transmitter. 1,708,577; Apr. 9.
- Hunter, Joseph H., Detroit, Mich., assignor, by mesne assignments, to General Cable Corporation. Covered multiple-strand electrical conductor and forming the same. 1,714,716; May 28.
- Hunter, Joseph H., Detroit, Mich., assignor, by mesne assignments, to General Cable Corporation. Machine for forming armored insulated conductors. 1,714,787; May 28.
- Hunter, Joseph K. (See Franks, C. H., and Hunter.)
- Hunter, Le Roy, Yampa, Colo. Dirigible light. 1,721,120; July 16.
- Hunter Machinery Company. (See Spiess, Gustave N., assignor.)
- Hunter Manufacturing Company. (See Hunter, George B., assignor.)
- Hunter, Olmer B., Chickasha, Okla. Water top. 1,722,523; July 30.
- Hunter, Phil. (See Tozer, C. A., and Hunter.)
- Hunter, Philinda, Marion, Ill. Invalid's cot. 1,741,717; Dec. 31.
- Hunter, Philip C., Richmond, Surrey, England. Bookrest. 1,740,814; Dec. 24.
- Hunter, Ralph, New York, assignor to Hall, Hartwell & Co., Inc., Troy, N. Y. Attached collar and making same. 1,735,399; Nov. 12.
- Hunter, Richard B., Shorewood, assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Drum controller. 1,722,295; July 30.
- Hunter, Richard B., Shorewood, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Controller for electric motors. 1,722,296; July 30.
- Hunter, Richard B., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Circuit controller. 1,723,040; Aug. 6.
- Hunter Saw and Machine Company. (See Kleeb, O. F., and Fullerton, assignors.)
- Hunter, Smith H., Memphis, Tenn. Air-operable lock for power reversing gears. 1,700,532; Jan. 29.
- Hunter, William N., Blanchester, Ohio. Receiver. 1,708,064; Apr. 9.
- Hunter, William N., Blanchester, Ohio. Loud-speaker horn. 1,716,137; June 4.
- Huntington, Humbert T. S., Providence, R. I. Arch support. 1,738,827; Dec. 10.
- Huntington, Victor C., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Washing machine. 1,724,594; Aug. 13.
- Huntington, William C., Hinsdale, Ill. Mud guard for shoe heels. 1,700,499; Jan. 29.
- Huntley, Burton L., assignor to Speedpak Dispenser Corporation, Minneapolis, Minn. Ice-cream-carton filler. 1,719,329; July 2.
- Huntley, Ernest R., assignor to Industrial Research Corporation, Toledo, Ohio. Fuel-feed system. 1,729,723; Oct. 1.
- Huntley, George J., Baltimore, Md., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., New York, N. Y. Packaging apparatus. 1,709,577; Apr. 16.
- Huntley Manufacturing Co. (See Howson, Charles T., assignor.)
- Huntley, Sidney F., Spokane, Wash. Pin fastener. 1,724,090; Aug. 13.
- Huntoon, Cullen L., Los Angeles, Calif. Shoe-heel-cutting miter. 1,726,227; Aug. 27.
- Huntoon, John S. (See Hobson, J. S., and Huntoon.)
- Hunt's Modern Paper Products, Inc. (See Hunt, John O., assignor.)
- Hunt's Modern Paper Products, Inc. (See Rasmussen, George V., assignor.)
- Huntsman, William R., Brookline, assignor to B. B. T. Corporation of America, Philadelphia, Pa. Beacon. 1,732,363; Oct. 22.
- Huntworth, Frank H., Seattle, Wash. Siphoning device. 1,731,899; Oct. 15.
- Huntworth, Frank H., Seattle, Wash. Vehicle headlight regulator. 1,739,144; Dec. 10.
- Hunziker, Otto F., La Grange, Ill., assignor to The Pfaunder Company, Rochester, N. Y. Treating milk and its products. 1,723,860; Aug. 6.
- Huot, Eugene F., St. Paul, Minn. Fish scaler. 1,706,403; Mar. 26.
- Hupp Motor Car Corporation. (See McDowell, Lamont A., assignor.)
- Hupp Motor Car Corporation. (See Ornberg, Ivan, assignor.)
- Hupp Motor Car Corporation. (See Punke, John J., assignor.)
- Hupp Motor Car Corporation. (See Whitbeck, John V., assignor.)
- Hupp, Robert C., et al. (See Uta, John G., assignor.)
- Huppert, Stephen W., River Falls, Wis. Attachment for tractors and motor vehicles. 1,728,346; Sept. 17.
- Huppert, William, New York, N. Y. Electrical attachment plug. Des. 80,231; Dec. 31.
- Huppert, William, New York, N. Y. Combined switch and plug cap. 1,728,549; Sept. 17.
- Huppuch, Milton K., assignor to The Decorative Company, Saratoga Springs, N. Y. Lincrusta and making the same. 1,702,161; Feb. 12.
- Hurbough, Myron. (See Beck, Howard, assignor.)
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. 1,703,845; Feb. 26.
- Hurewitz, Alexander, Bronx, N. Y. Button-making machine. 1,701,501; Feb. 12.
- Hurlbert, Edward C., Glendale, Calif. Building construction. 1,707,858; Apr. 2.
- Hurlbert, Harold M., Glendale, Calif. Horn. 1,722,220; July 23.
- Hurlbrink, Ernst, assignor to firm Martin & Hüneke Maschinenbau-Aktiengesellschaft, Berlin, Germany. Apparatus for storing and dispensing liquid fuels. 1,740,306; Dec. 17.
- Hurlburt, Gerald Ty., Detroit, assignor to The Allington & Curtis Manufacturing Company, Saginaw, Mich. Shaper hood. 1,739,484; Dec. 10.
- Hurlburt Research Corporation. (See Zeidler, William A., assignor.)
- Hurlburt, Watson. (See Heckman, Richard P., assignor.)
- Hurlbut, H. S. (See Springer, John E., assignor.)
- Hurley, Albert B., assignor, by mesne assignments, to National Paper Process Company, New York, N. Y. Preventing eye fatigue. Re17,502; Nov. 26.
- Hurley, Albert B., assignor to National Paper Process Company, New York, N. Y. Playing card. 1,715,759; June 4.
- Hurley, Edward F., Rockland, Mass. Cushion-heel shoe. 1,718,906; June 25.
- Hurley, Edward T., Cincinnati, Ohio. Plaque or similar article. Des. 78,028; Mar. 19.
- Hurley, James B. (See Olney, O. L., and Hurley.)
- Hurley Machine Company. (See Hume, John T., assignor.)



- Hurley Shoe Stores Company. (See Kingman, William B., assignor.)
- Hurley, William M., Rockland, Mass. Shoe and metatarsal arch support therefor. 1,709,852; Apr. 23.
- Hurlock, S. T., Jr., et al. (See Connor, James G., assignor.)
- Huron Manufacturing Co. (See Elstone, Stanley W., assignor.)
- Hurst, Charles, assignor to Dallas Foundry, Dallas, Tex. Pole or post protection. 1,707,397; Apr. 2.
- Hurst, Glenn D., Los Angeles, Calif. Method of and apparatus for conserving cocoons of silk-producing insects. 1,704,972; Mar. 12.
- Hurst, James E., Thorncliffe, England, and E. B. Ball, assignors to Centrifugal Castings Limited, Kilmarnock, Scotland. Centrifugal machine for casting metal pipes and the like. 1,735,969; Nov. 19.
- Hurst, James E., Thorncliffe, England, and E. B. Ball, assignors to Centrifugal Castings Limited, Kilmarnock, Scotland. Metal-pouring apparatus for centrifugal casting machines. 1,737,459; Nov. 26.
- Hurst, Needham W., Macon, Ga. Tobacco rack. 1,704,609; Mar. 5.
- Hurst, William J., Maquoketa, Iowa. Tire-valve lock. 1,705,365; Mar. 12.
- Hurt, George F., Engineering Corporation. (See Hurt, George F., assignor.)
- Hurt, George F., Atlanta, Ga., assignor to George F. Hurt Engineering Corporation, New York, N. Y. Gas and liquid treatment. 1,708,179; Apr. 9.
- Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,706,977; Mar. 26.
- Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Indicator. 1,715,838; June 4.
- Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,732,163; Oct. 15.
- Hurt, C. B., et al., trustees. (See Brown, Lloyd, assignor.)
- Hürtle, Karl, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Treating outer covers for aircraft. 1,721,302; July 16.
- Hurwitz, Hermann, & Co. (See Weide, Rudolf, assignor.)
- Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. 1,697,651; Jan. 1.
- Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Sealing strip. 1,733,880; Oct. 29.
- Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Panel for driers. 1,741,366; Dec. 31.
- Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Ball-bearing housing. 1,723,699; Aug. 6.
- Hurxthal, Alpheus O., and H. Bogaty, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Spiked feed conveyer. 1,718,150; June 18.
- Huse, Hiram N., Providence, R. I. Fabric. 1,721,154; July 16.
- Husky Corporation. (See Mandl, Siegmund, assignor.)
- Husgvarna Vapenfabriks Aktiebolag. (See Platin, Ernst V., assignor.)
- Huss, Carl, and F. Tournoy, New York, N. Y., assignors to A. Hollander & Son, Inc. Producing embossed fur. 1,708,763; Apr. 9.
- Huss, Carl and Fritz Tournoy, New York, N. Y., assignors to A. Hollander & Son, Inc. Fur-grooving machine. 1,722,630; July 30.
- Huss, Gustaf H., assignor to Bergsunds Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Starting and reversing arrangement for internal-combustion engines. 1,706,232; Mar. 19.
- Hussey, Erwin H. (See Brennan, E. M., and Hussey.)
- Hussmann-Ligonier Company. (See Heyer, Alfred J., assignor.)
- Hussmann-Ligonier Company. (See Steiner, Joseph C., assignor.)
- Husson Dyelng Machine Company. (See Thompson, John H., assignor.)
- Husta, Philip, Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Current-controlling system. 1,738,247; Dec. 3.
- Husted, Harry A., Detroit, Mich. Making flanged metal spiders. 1,721,664; July 23.
- Husted, Lemuel J., Los Angeles, Calif., assignor to Oil Well Rejuvenating Corporation. Apparatus for heating vapors between compressors and wells. 1,716,854; June 11.
- Husted, Ransom H., Topeka, Kans. Wheeled toy. 1,699,360; Jan. 15.
- Huston, Charles L. (See Goodfellow, Alfred, assignor.)
- Huston, James D., Imperial, Calif. Precooler for refrigerator cars. 1,736,788; Nov. 26.
- Huston, Samuel C., Exeter, Calif. Fruit protector. 1,699,240; Jan. 15.
- Huston, Tom, Columbus, Ga. Display container for foods, confections, and the like. Des. 79,616; Oct. 15.
- Huston, Tom, Columbus, Ga. Card-display stand. 1,715,237; May 28.
- Hutchens, Edward, Milwaukee, Wis. Drive unit. 1,711,500; May 7.
- Hutchens, Edward, Milwaukee, Wis. Clincher-tire bead-dipping machine. 1,712,618; May 14.
- Hutchens, Edward, Milwaukee, Wis. Washer-conditioning machine. 1,735,612; Nov. 12.
- Hutchens, Edward, Milwaukee, assignor to Utility Manufacturing Co., Cudahy, Wis. Horizontal bead flipper. Re17,198; Jan. 22.
- Hutchens, Edward, Milwaukee, assignor to Utility Manufacturing Co., Cudahy, Wis. Individual vulcanizer for flaps, etc. 1,698,846; Jan. 15.
- Hutchens, Edward, Milwaukee, assignor to Utility Manufacturing Co., Cudahy, Wis. Crimping bead flipper. 1,726,987; Sept. 3.
- Hutchens, Howard O. (See Krause, A. R., and Hutchens.)
- Hutchens, Ralph W., assignor to Gillette Rubber Company, Eau Claire, Wis. Tire. Des. 78,393; Apr. 30.
- Hutchens, Ralph W., assignor to Gillette Rubber Company, Eau Claire, Wis. Tire or similar article. Des. 80,230; Dec. 31.
- Hutcheson, J. M. (See White, John C., assignor.)
- Hutchings, Harry H., New York, N. Y. Comb. Re17,310; May 28.
- Hutchings, Harry H., New York, N. Y. Comb. 1,698,631; Jan. 8.
- Hutchings, Le Roi E., Tonawanda, assignor by mesne assignments to Remington Rand Inc., New York, N. Y. Card index. 1,733,304; Oct. 29.
- Hutchings, Le Roi E., Buffalo, assignor to Remington Rand Inc., New York, N. Y. Index holder. 1,733,305; Oct. 29.
- Hutchings, Le Roi E., Buffalo, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Filing device. 1,741,157; Dec. 31.
- Hutchins, Allan S. (See Cederlund, A., and Hutchins.)
- Hutchins, Allan S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off. 1,703,884; Mar. 5.
- Hutchins, Allan S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Threading and tension mechanism for loom shuttles. 1,723,423; Aug. 6.
- Hutchins, Allan S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Self-threading shuttle. 1,723,937; Aug. 6.
- Hutchins, Allan S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom shuttle. 1,734,092; Nov. 5.
- Hutchins Car Roofing Company. (See Franck, Edwin G., assignor.)
- Hutchins Car Roofing Company. (See Thompson, William D., assignor.)
- Hutchins Car Roofing Company. (See Wilson, Alfred R., assignor.)
- Hutchins, Charles K. (See Davison, John E., assignor.)
- Hutchins, James V. (See Ritter, Frank M., assignor.)
- Hutchins, Thomas W. S., Davenham, near Northwich, England. Electrodeposition of metals. 1,709,268; Apr. 16.
- Hutchins, William Y., Kingsport, Tenn. Closure. 1,734,434; Nov. 5.
- Hutchinson, Edward, Jr., Philadelphia, Pa., assignor, by mesne assignments, to Saffigard-Nudriare, Inc., Wilmington, Del. Guard for elevator doors. 1,716,060; June 4.
- Hutchinson, Frank C., Rutherford, N. J. Machine for straightening and cutting wire. 1,703,885; Mar. 5.
- Hutchinson, Frank L., Wauwatosa, Wis. Combined supply and automatic temperature-control valve for fluid radiators. 1,710,875; Apr. 30.
- Hutchinson, George W., Lake Worth, Fla. Preparing concrete. 1,724,403; Aug. 13.
- Hutchinson, Job, Great Neck, N. Y. Internal-combustion engine. 1,741,987; Dec. 31.
- Hutchinson, Philip H. (See Chapman, W. H., and Hutchinson.)
- Hutchinson, Philip H., East Orange, N. J., assignor to General Motors Corporation, Detroit, Mich. Spindle mounting. 1,736,972; Nov. 26.
- Hutchison, Hareley E., Hotchkiss, Colo. Dispensing container. 1,722,221; July 23.
- Hutchison, Hugh, Cambuslang, Scotland. Carburetor. 1,731,135; Oct. 8.
- Hutchison, Mary A., et al. (See Aud, William S., assignor.)
- Hutchison, Miller R., West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Phonographic recording. 1,698,366; Jan. 8.
- Hutchison, Miller R., Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Loud-speaker. 1,718,353; June 25.
- Hutchison, Miller R., Jr., Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Loud-speaker. 1,718,354; June 25.
- Hutchison, Miller R., Llewellyn Park, West Orange, N. J., assignor by mesne assignments, to Acoustic Products Company, New York, N. Y. Recording and reproducing sound. 1,718,355; June 25.
- Hutchison, Miller R., Llewellyn Park, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Sound-reproducing device. 1,718,356; June 25.
- Hutchison, Miller R., Llewellyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Mechanical movement for sound propagation. 1,718,357; June 25.
- Hutchison, Miller R., West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Loud-speaker. 1,735,859; Nov. 19.



- Hutchison, Miller R., West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Flexed sounding board. 1,735,860; Nov. 19.
- Hutchison, Miller R., West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Tuned radial horn. 1,735,861; Nov. 19.
- Hutchison, Miller R., West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Push-pull-actuated radial resonator. 1,735,862; Nov. 19.
- Hutchison, Miller R., West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Radial resonator with bass-note propagator. 1,735,863; Nov. 19.
- Hutchison, Miller R., West Orange, N. J., assignor to Premier Laboratory Company. Sound-propagating device. 1,735,864; Nov. 19.
- Huth, Dr. Erich F., Ges. m. b. H. (See Pauli, Heinrich, assignor.)
- Huth, Dr. Erich F., G. m. b. H. (See Rosenbaum, B., and Pohle, assignors.)
- Huth, Dr. Erich F., G. m. b. H. (See Rottgardt, K., and Kühn, assignors.)
- Huth, Dr. Erich F., G. m. b. H. (See Spanner, Hans J., assignor.)
- Huth, Dr. Erich F., Ges. m. b. H. (See Zeh, Martin, assignor.)
- Huth, Walter C., assignor to The Crawford Oven Co., New Haven, Conn. Automatic safety loading mechanism for ovens. 1,718,861; June 25.
- Huthmacher, Harry, Irvington, N. J. Timing mechanism. 1,735,762; Nov. 12.
- Hutnikow, Theodore, Brooklyn, N. Y. Electric-lamp-shade bridge. Des. 77,961; Mar. 12.
- Hutson, Frank A. (See de Simone, Michele G., assignor.)
- Hutt, Albert E., Ardmore, Pa. Valve-stem oil guard. 1,711,267; Apr. 30.
- Hutt, Albert E., New Rochelle, N. Y. Combination day and sleeping railroad coach. 1,711,317; Apr. 30.
- Hutt, Arthur C. (See Alley, S. E., and Hutt.)
- Hutt, Joseph. (See Young, A. P., and Hutt.)
- Hutt, Leonard P., Schenectady, N. Y., assignor to General Electric Company. Motor-control mechanism. 1,717,844; June 18.
- Hutten, Edwin P. (See Obrig, J. A. T., and Hutten.)
- Hüttenwerke Tempelhof A. Meyer. (See Speichert, Max, assignor.)
- Hutter, Samuel, et al. (See Lalonde, Oscar, assignor.)
- Huttinger, William R., Lansdowne, Pa. Electric switch. 1,697,008; Jan. 1.
- Huttinger, William R., Philadelphia, Pa. High-voltage switch. 1,742,077; Dec. 31.
- Hutto, Marsden C., Detroit, Mich. Multiple-cylinder grinder. 1,740,461; Dec. 24.
- Hutton, Harold K., Rockford, Ill. Heat-conserving factory-dust-disposal system. 1,706,449; Mar. 26.
- Hutton, Ulric O., Wauwatosa, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Conditioning fluids. 1,740,462; Dec. 24.
- Huwylar, Eugen, Vienna, Austria, assignor to the firm Ignis A.-G., Zurich, Switzerland. Furnace for steam boilers. 1,721,782; July 23.
- Huxman, Richard F., Benton Harbor, Mich. Grass clipper. 1,741,172; Dec. 31.
- Huye, Joseph G., New Orleans, La. Rotary paper-gumming machine. 1,704,797; Mar. 12.
- Huye, Joseph G., New Orleans, La. Display stand. 1,708,792; Apr. 9.
- Huye, Joseph G., New Orleans, La. Adjustable rotary stenciling pasting machine. 1,731,307; Oct. 15.
- Huygen, Frédéric C., Amersfoort, Netherlands. Sterilizing liquid substances. 1,709,175; Apr. 16.
- Huygens, Elodie M. (See Brinkman, Albert A., assignor.)
- Hvid, R. M. (See Goergl, John, assignor.)
- Hvid, Rasmus M., Chicago, Ill. Compressor construction for refrigerating devices. 1,703,108; Feb. 26.
- Hvid, Rasmus M., Chicago, Ill. Compressor construction for refrigerating devices. 1,712,826; May 14.
- Hvoslef, Fredrik W., Dearborn, assignor to The Timken-Detroit Company, Detroit, Mich. Liquid-feeding device. 1,709,576; Apr. 16.
- Hyams, John H., Chicago, Ill. Kick-plate frame. 1,709,911; Apr. 23.
- Hyatt, Frank S., assignor to Brass Good M'fg. Co., Brooklyn, N. Y. Tube compressor. 1,715,924; June 4.
- Hyatt, Frank S., New York, assignor to Brass Goods M'fg. Co., Brooklyn, N. Y. Bottle-filling device. 1,736,598; Nov. 19.
- Hyatt, Henry E., Singer, La. Watch pendant. 1,712,041; May 7.
- Hyatt, Lawrence H., New York, N. Y. Sign. 1,739,592; Dec. 17.
- Hyatt, Samuel W., assignor to Indiana Lamp Corporation, Connersville, Ind. Stop and tail light. 1,700,369; Jan. 29.
- Hyatt, Samuel W., assignor to Indiana Lamp Corporation, Connersville, Ind. Electric plug. 1,715,366; June 4.
- Hyatt, Samuel W., assignor to Indian Lamp Corporation, Connersville, Ind. Lamp construction. 1,724,201; Aug. 13.
- Hybinette, Noak V., Wilmington, Del. Heat-enduring metal. 1,608,098; Jan. 8.
- Hybinette, Noak V., New York, N. Y. Cleaning and/or annealing metal. 1,704,086; Mar. 5.
- Hybinette, Noak V., Wilmington, Del. Heat-resisting structure, etc. 1,704,087; Mar. 5.
- Hybinette, Noak V., New York, N. Y. Alloy, etc. 1,726,489; Aug. 27.
- Hybinette Patents Corporation. (See Hybinette, Victor N., assignor.)
- Hybinette, Victor N., assignor to Hybinette Patents Corporation, Jackson, Mich. Antifatigue alloy. 1,704,251; Mar. 5.
- Hybinette, Victor N., assignor to Hybinette Patents Corporation, Jackson, Mich. Noncorrodible structure. 1,704,252; Mar. 5.
- Hybinette, Victor N., assignor to Hybinette Patents Corporation, Jackson, Mich. Plastic light aluminum alloy and producing same. 1,704,253; Mar. 5.
- Hyde, Carl L. (See Hyde, P. S., and Reynolds, assignors.)
- Hyde, Elwin R., assignor to The Bridgeport Safety Emery Wheel Company, Incorporated, Bridgeport, Conn. Sectional grinding wheel. 1,697,505; Jan. 1.
- Hyde Engineering Company. (See Hyde, Henry W., assignor.)
- Hyde, Henry W., North Cohasset, assignor to Hyde Engineering Company, Boston, Mass. Spring suspension for vehicles. 1,719,767; July 2.
- Hyde, John F., Sault Ste. Marie, Ontario, Canada. Canoe or boat construction. 1,723,278; Aug. 6.
- Hyde, Louis B., and M. S. Gazelle, Detroit, Mich. Electric water heater. 1,723,733; Aug. 6.
- Hyde, Parke S., Los Angeles, and D. P. Reynolds, Pasadena, assignors of one-third to C. L. Hyde, Torrance, Calif. Conductor-retrieving device for vacuum cleaners. 1,714,225; May 21.
- Hyde, Ralph E., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Grooving tool. 1,707,478; Apr. 2.
- Hyde, Reed W., Summit, N. J., assignor to the Dwight and Lloyd Sintering Company, Inc., New York, N. Y. Igniter for sintering machines. 1,719,114; July 2.
- Hyde, Rollin M., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Metal tubing. 1,701,617; Feb. 12.
- Hyde, Rollin M., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Diaphragm for expansion valves. 1,703,531; Feb. 26.
- Hyde, Rollin M., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Condenser for refrigerating machines. 1,709,176; Apr. 16.
- Hyde, Rollin M., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Condenser for refrigerating machines. 1,719,887; July 9.
- Hyde, Rollin M., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Evaporator unit. 1,731,575; Oct. 15.
- Hyde, Tamble F., Nashville, Tenn. Surgical instrument. 1,708,578; Apr. 9.
- Hydeman, Jacob E., Dayton, Ohio. Printing. 1,721,397; July 16.
- Hydraulic Brake Company. (See Floraday, Burton S., assignor.)
- Hydraulic Brake Company. (See Loughead, Malcolm, assignor.)
- Hydraulic Brake Company. (See Loughead, M., and Loweke, assignors.)
- Hydraulic Brake Company. (See Loughead, M., and Scott, assignors.)
- Hydraulic Brake Company. (See Oliver, Wallace F., assignor.)
- Hydraulic Brake Company. (See Tseng, Andrew T. K., assignor.)
- Hydraulic-Press Brick Company. (See Ivery, Sidney H., assignor.)
- Hydraulic Press Manufacturing Company. (See Ernst, W., and MacMillin, assignors.)
- Hydraulic Press Manufacturing Company, The. (See Ernst, Walter, assignor.)
- Hydraulic Press Manufacturing Company, The. (See Stevenson, Francis E., assignor.)
- Hydraulic Pressed Bearing Company. (See Burger, F. W., and Stockfeth, assignors.)
- Hydraulic Steel Company, The. (See Kranz, Harry W., assignor.)
- Hydraulik Gesellschaft mit beschränkter Haftung. (See Schlenstedt, Oswig, assignor.)
- Hydro-Check Corporation. (See Ackerman, E. W., and Nicholson, assignors.)
- Hydro-Indicators Limited. (See Hocken, Barry, assignor.)
- Hydrojox Incorporated. (See McDonell, Allan J., assignor.)
- Hydrac Corporation. (See Weiss, George C. and M. J., assignors.)
- Hygela Nursing Bottle Co., The. (See Ganson, Howard H., assignor.)
- Hygienic Fibre Company. (See Brightman, Henry M., assignor.)
- Hygienol Co., The. (See Raynor, Louis L., assignor.)
- Hygrade Lamp Co., The. (See Turner, Sterling, assignor.)
- Hyland, Alfred E., Keeseville, N. Y. Cork-extractor and cap-remover tool. 1,707,398; Apr. 2.
- Hyle, Jacob A., Atlantic City, N. J. Spring-nut-lock-washer. 1,724,595; Aug. 13.
- Hyle, Jacob A., and C. R. Keatley, Atlantic City, N. J., assignor to Continental Railway Supply Corporation. Railway-rail anchor. 1,702,210; Feb. 12.
- Hyman, George, New York, N. Y. Advertising sign. 1,739,837; Dec. 17.
- Hyman, Henry. (See Britsch, Otto C., assignor.)
- Hyman, Henry. (See Muldoon, Bernard F., assignor.)



- Hyman, Henry. (See Post, A. H., and Swanson, assignors.)  
 Hyman, Philip N. (See Kampa, E. P., and Hyman.)  
 Hyman, Henry. (See Drufva, John T., assignor.)  
 Hymans, Frederick, Yonkers, N. Y., assignor to Otis Elevator Company. Elevator safety appliance. 1,702,384; Feb. 19.  
 Hymans, Frederick, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator safety appliance. 1,727,432; Sept. 10.  
 Hymer, Herbert A., Detroit, Mich. Method of and apparatus for combustion of fuels. 1,702,731; Feb. 19.  
 Hynan, Arthur C., Chicago, Ill. Demountable wheel. 1,722,750; July 30.  
 Hynes & Cox Electric Corporation. (See Hynes, Lee P., assignor.)  
 Hynes & Cox Electric Corporation. (See Hynes, L. P., and Williams, assignors.)  
 Hynes, John J., University City, Mo. Necktie. 1,740,984; Dec. 24.  
 Hynes, Lee P., assignor to Hynes & Cox Electric Corporation, Albany, N. Y. Electric water heating. 1,698,596; Jan. 8.  
 Hynes, Lee P., assignor to Hynes & Cox Electric Corporation, Albany, N. Y. Immersion heater. 1,703,532; Feb. 26.  
 Hynes, Lee P., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Thermostatic control for electric heaters. 1,717,155; June 11.  
 Hynes, Lee P., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Pneumatic door-motor system. 1,722,920; July 30.  
 Hynes, Lee P., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Door-engine control. 1,741,988; Dec. 31.  
 Hynes, Lee P., assignor to Consolidated Car-Heating Company, Inc., Albany, N. Y. Electric heating system. 1,742,159; Dec. 31.  
 Hynes, Lee P., and P. M. Griffin, assignors, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Door-edge circuit closer. 1,705,406; Mar. 12.  
 Hynes, Lee P., and H. A. Williams, assignors to Hynes & Cox Electric Corporation, Albany, N. Y. Thermostat. 1,720,837; July 16.  
 Hyrup, Hans K., Los Angeles, Calif. Pipe-thread cleaner and chaser. 1,700,409; Jan. 29.  
 Hyslop, Samuel, Newton, Mass. Thread clearer. 1,740,242; Dec. 17.  
 Hyson, Benjamin H., jr., Salem, N. J. Stair tread. Des. 77,487; Jan. 15.  
 I. G. Farbenindustrie Aktiengesellschaft. (See Beck, C., and Diekmann, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Bencker, Franz, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Benda, L., and Sievers, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Blumrich, Karl, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Dachlauer, K., and Thomsen, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Drucker, J., and Thienemann, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Ebert, C., and Becker, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Eisenhut, A., and Auerhahn, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Eisenhut, Otto, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Engelhardt, Alfred, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Fick, Reinhold, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Finkelstein, H., and Häuber, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Fuchs, Sigismund, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Gaus, W., Griessbach, and Schliephake, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Günther, F., and Hetzer, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Günther, F., and Nüsslein, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Hansen, Christian, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Heimann, H., and Bayerl, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Heimann, H., Seefried, Petersen, and Bayerl, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Henglein, F. A., and Schleicher, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Heuck, C., and Esselmann, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Hiemann, Heinrich, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Heimann, H., and Bayerl, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Jaeger, M., Moschel, and Suchy, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Kalischer, G., and Schever, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Kämpf, Adolf, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Kränzlein, G., and Ebert, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Lange, Fritz, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Laska, A. L., and Zitscher, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Legeler, E., and Esselmann, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Loehr, Oskar, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Lommel, W., and Goost, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Lommel, W., Münzel, Stötter, and Wenk, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Luther, M., and Heuck, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Luther, M., and Jochheim, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Luther, M., and Pierch, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Marx, K., Brodersen, and Bittner, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Meiser, W., Schubardt, and Kramer, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Meyer, K. H., Müller, and Hoffmann, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Michael, W., and Palm, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Michel, Richard, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Mittasch, A., Müller, Schlecht, and Schubardt, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Mittasch, A., and Wietzel, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Müller, C., and Krägelch, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Müller-Cunradi, M., and Kossuth, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Müller-Cunradi, M., and Lechner, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Münch, Eduard, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Münch, Siegmund, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Onnertz, P., Wesche, and Brodersen, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Osswald, P., and Schad, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Pier, M., and Winkler, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Pistor, Gustav, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Pistor, G., Lang, and Suchy, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, Wilhelm, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, W., and Hellthaler, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, W., and Jahrstorfer, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Raeck, Max, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Rosenthal, L., and Lenhard, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, A., Balle, and Franz, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, O., Grossinsky, and Niemann, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Schütte, Hermann, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Schwarz, Ernest, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Siedler, P., and Schulte, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Stolz, F., and Krohs, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Suida, Hermann, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Weiler, M., Wenk, and Stötter, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Weise, Paul, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, Rudolf, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, R., and Kremp, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, R., Schlecht, and Köhler, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Wild, W., and Beck, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Winkler, Kurt, assignor.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Woetzel, K., and Lint, assignors.)  
 I. G. Farbenindustrie Aktiengesellschaft. (See Wolfenstein, Richard, assignor.)  
 Ickler, Siebert J., Wayne, Nebr. Cultivator arch. 1,699,892; Jan. 22.  
 Icre, Jean B., New York, N. Y. Apparatus for baking flat pieces of bread and the like. 1,716,891; June 11.  
 Icre, Jean B., New York, N. Y. Machine for feeding, molding, and cutting dough. 1,726,566; Sept. 3.  
 Idaho Wheel and Rim Company. (See Bowler, Thomas F., assignor.)  
 Ide, Carolyn D. (See Pride, Ira G., assignor.)  
 Ide, Clinton, Wilkes-Barre, Pa. Automatic starter for internal-combustion engines. 1,705,816; Mar. 19.



- Ide, Geo. P. & Company. (See Busha, Jeff A., assignor.)  
 Ide, Harry H., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Variable condenser. 1,697,506; Jan. 1.  
 Ide, Harry H., La Grange, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Variable condenser. 1,735,435; Nov. 12.  
 Ideal Baby Shoe Company. (See Miller, Gervase E., assignor.)  
 Ideal Cup Corporation. (See Hoff, George K., jr., assignor.)  
 Ideal Cup Corporation. (See Morin, Louis H., assignor.)  
 Ideal Electric & Manufacturing Co., The. (See Schou, Theodor, assignor.)  
 Ideal Electric & Manufacturing Company, The. (See Watson, Jay R., assignor.)  
 Ideal Lighting Novelty Co. (See Brettler, Harry, assignor.)  
 Ideal Power Lawn Mower Company. (See Seeley, Fayette M., assignor.)  
 Ideal Stitcher & Manufacturing Company. (See Baumann, Gottfried P., assignor.)  
 Ideal Wrapping Machine Co. (See Sergeant, Walter H., assignor.)  
 Idel, Hermann, assignor to Demag Aktiengesellschaft Duisburg, Germany. Apparatus for cooling the mandrels of tube rolling mills. 1,732,404; Oct. 22.  
 Iden, Max W., Altona, Germany. Inflatable valved bag. 1,702,732; Feb. 19.  
 Ielfeld, August, Silver Creek, assignor to The Ielfeld Postal Supply Co. Inc., Forestville, N. Y. Mail-marking machine. 1,703,148; Feb. 26.  
 Ielfeld Postal Supply Co., The. (See Ielfeld, August, assignor.)  
 Ignis, A.-G. (See Huwyler, Eugen, assignor.)  
 Ignition Manufacturing Company, The. (See Daubenspeck, William J., assignor.)  
 Ihara, Chokichi, Tokyo, Japan. Fountain pen. 1,719,874; July 2.  
 Ihfeldt, Johannes, assignor to G. Polysius, Dessau, Germany. Apparatus for weighing continuously-moving granular material. 1,717,564; June 18.  
 Ihfeldt, Johannes, assignor to G. Polysius, Dessau, Germany. Crushing machine for hard materials. 1,719,979; July 9.  
 Ihnen, Wiard B., New York, N. Y. Transparent foldable footwear. 1,717,690; June 18.  
 Ihrig, Harry K., Berkeley, assignor to Associated Oil Company, San Francisco, Calif. Refining hydrocarbon oils. 1,712,619; May 14.  
 Ikebe, Joto. (See Nagaoka, H., and Ikebe.)  
 Ikeda, Kikunae, Tokyo, Japan. Utilizing waste waters from beet-root-sugar molasses. 1,721,820; July 23.  
 Ikeda, Yuyemon, Los Angeles, Calif. Moving doll. 1,705,863; Mar. 19.  
 Ikeda, Yuyemon, Los Angeles, Calif. Archery bow and projectile. 1,725,760; Aug. 27.  
 Ilette Electric Manufacturing Corporation. (See Giles, Isaac F., assignor.)  
 Ilemann, Emil A., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Safety arrangement for fuel burners. 1,720,900; July 16.  
 Ilemann, Emil A., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Regulating apparatus. 1,720,901; July 16.  
 Ilemann, Emil A., Queens, assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Thermometer. 1,733,600; Oct. 29.  
 Ilemann, Emil A., Queens, assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Instrument mounting. 1,733,804; Oct. 29.  
 Ilemann, Emil A., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Motor-operated valve mechanism. 1,736,791; Nov. 26.  
 Ilg Electric Ventilating Company. (See Sutcliffe, A. G., and Novak, assignors.)  
 Illich, William G., Washington, D. C. Fabric for window screens, screen doors, and the like. 1,704,195; Mar. 5.  
 Illemann, Robert, and R. A. Whitson, Glasgow, Scotland. Coating of pipes and tubes and like hollow bodies with a bituminous substance in powdered form. 1,736,915; Nov. 26.  
 Illingworth Carbonization Company, The. (See Illingworth, Stewart R., assignor.)  
 Illingworth, George, Cleveland Heights, Ohio, assignor to General Electric Company. Automatic machine for manufacturing electric incandescent lamps and similar articles. 1,733,881; Oct. 29.  
 Illingworth, George, East Cleveland, Ohio, assignor to General Electric Company. Method of and apparatus for mounting filaments. 1,733,882; Oct. 29.  
 Illingworth, Stewart R., Brynffedwen, Radyr, Wales, assignor to The Illingworth Carbonization Company, Limited, Manchester, England. Agitating apparatus. 1,716,726; June 11.  
 Illingworth, Stewart R., Brynffedwen, Radyr, Wales, assignor to The Illingworth Carbonization Company, Limited, Manchester, England. Apparatus for the cooling of coke. 1,716,727; June 11.  
 Illinois Carton & Label Company. (See Johnson, Norman O., assignor.)  
 Illinois Pacific Glass Corporation. (See Mathleson, Holger T., assignor.)  
 Illinois-Pacific Glass Corporation. (See Raynes, H. J., and Denning, assignors.)  
 Illinois Tool Works. (See England, Frank W., assignor.)  
 Illinois Tool Works. (See Irwin, Charles J., assignor.)  
 Illinois Tool Works. (See Olson, Carl G., assignor.)  
 Illinois Watch Case Company. (See Wakefield, Frank E., assignor.)  
 Illinois Watch Case Company. (See Wewetzer, Albert, assignor.)  
 Illinois Zinc Company. (See Daesen, J. R., and Wemple, assignors.)  
 Ilmer, Louis, Cortlandt, N. Y. Composite cabinet. 1,714,909; May 28.  
 Iving, Carl C., Copenhagen, Denmark. Furnace for the destruction of garbage. 1,724,352; Aug. 13.  
 Imbrie, Boyd V., executor. (See Ryerson, Charles S.)  
 Imbruglia, Jacoby, Alameda, Calif. Window screen. 1,719,980; July 9.  
 Imbus, Alphonse E., Cincinnati, Ohio, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,724,936; Aug. 20.  
 Imerman Screw Products Company. (See Schlitters, Michael J., jr., assignor.)  
 Imerman, Stanley, assignor to C. E. Bridwell, Detroit, Mich. Valve-spring retainer. 1,706,885; Mar. 26.  
 Imhoff, Karl, Essen, Germany. Sewage treatment by activated sludge in combination with a preliminary tank treatment. 1,700,722; Jan. 29.  
 Imhoff, Karl, Essen, Germany. Aerated contact filter for sewage treatment. 1,700,723; Jan. 29.  
 Imhoff, Karl, Essen, Germany. Unrolling sewage or sludge. 1,703,041; Feb. 19.  
 Imhoff, Karl, Essen, Germany. Subdivided activated sludge system for sewage treatment. 1,717,780; June 18.  
 Imhoff, Karl, Essen, Germany. Oscillating aerating pipe. 1,727,601; Sept. 10.  
 Immand, Gerhard, and C. Janssen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. 1,728,061; Sept. 10.  
 Immel, William P., Vera Cruz, Mex., and C. J. Martin, New Orleans, La. Clutch. 1,716,229; June 4.  
 Immele, Fred C., Kansas City, Mo. Child's toilet seat. 1,722,524; July 30.  
 Immell, Omer F., Blair, Wis. Left-turn and stop signal. 1,700,370; Jan. 29.  
 Immendorfer, Eugen. (See Bergmann, M., Immendorfer, and Loewe.)  
 Impactograph Corporation. (See Baskerville, John B., assignor.)  
 Imperial Brass Manufacturing Company, The. (See Dobrick, August C., assignor.)  
 Imperial Brass Manufacturing Company, The. (See Dorsey, Parmer, assignor.)  
 Imperial Brass Manufacturing Company, The. (See Dorsey, P., and McIntosh, assignors.)  
 Imperial Brass Manufacturing Company, The. (See McIntosh, Robert D., assignor.)  
 Imperial Brass Manufacturing Co. (See Young, Charles, assignor.)  
 Imperial Chemical Industries, Limited. (See Grimwood, Arthur J., assignor.)  
 Imperial Chemical Industries Limited. (See Humphrey, Herbert A., assignor.)  
 Imperial Chemical Industries Limited. (See Moore, J. W., and Polack, assignors.)  
 Imperial Chemical Industries Limited. (See Paterson, John H., assignor.)  
 Imperial Knitting Company. (See Marcussen, Siegfried, assignor.)  
 Imperial Machine Company. (See Pepper, Alrid B., assignor.)  
 Imperial Metal Products Company. (See Hoogerhyde, James, assignor.)  
 Imperial Optical Company. (See Butler, Albert.)  
 Imperial Tobacco Company of Canada, Limited. (See Van Sicks, John H., assignor.)  
 Improved Brick Corporation of Delaware. (See Pelton, John C., assignor.)  
 Improved Button Cutting Corporation. (See Knott, Warren E., assignor.)  
 Improved Paper Machinery Company. (See Reed, H. J., and Spafford, assignors.)  
 Improved Paper Machinery Company. (See Spafford, Claude L., assignor.)  
 Improved Shoe Methods Corporation. (See Mills, William L., assignor.)  
 Imshenetsky, Dmitry M. (See Imshenetsky, M. M., and Gromeeke, assignors.)  
 Imshenetsky, Michael M., and J. I. Gromeeke; said Gromeeke assignor to D. M. Imshenetsky, San Francisco, Calif. Building construction. 1,724,284; Aug. 13.  
 Incandescent Light & Stove Company, The. (See Stubbers, Joseph, assignor.)  
 Inco, Francis S., Los Angeles, Calif. Portable closet bed. 1,714,876; May 28.  
 Inco, Francis S., Los Angeles, Calif. Foldable day bed. 1,736,158; Nov. 19.  
 Incutti, Michelangelo, Kansas City, Mo. Shoe inner brace. 1,711,788; May 7.  
 Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Mold for hollow typographic elements. 1,702,902; Feb. 19.  
 Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Hollow typographic element. 1,702,903; Feb. 19.



- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Typographical casting machine. 1,720,331; July 9.
- Indelible Coloration Corporation. (See Schroeder, William C., assignor.)
- Independent Pneumatic Tool Company. (See Hanssen, Iver A., assignor.)
- Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)
- Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)
- Indestructo Glass Corporation. (See Bartelstone, Louis, assignor.)
- Indestructo Trunk Company, The. (See Erwin, Benjamin H., assignor.)
- India Rubber Gutta Percha & Telegraph Works Company Limited, The. (See Perry, William J., assignor.)
- India Tire & Rubber Company, The. (See Lerch, William G., assignor.)
- Indian Motorcycle Company. (See Hoffman, Earl E., assignor.)
- Indian Territory Illuminating Oil Company. (See Sutton, William P., assignor.)
- Indiana Brass Company. (See Johnson, John A., assignor.)
- Indiana Fibre Products Company. (See Bell, George A., assignor.)
- Indiana Fibre Products Company. (See Bell, G. A., and Carson, assignors.)
- Indiana Fibre Products Company. (See Simmons, Paul R., assignor.)
- Indiana Lamp Corporation. (See Albright, Edward C., assignor.)
- Indiana Lamp Corporation. (See Foster, Harry C., assignor.)
- Indiana Lamp Corporation. (See Hyatt, Samuel W., assignor.)
- Indiana Lamp Corporation. (See Neuner, Frederick W. C., assignor.)
- Indiana Steel & Wire Company. (See Crapo, Frederick M., assignor.)
- Indianapolis Corporation. (See Duesenberg, Frederick S., assignor.)
- Indianapolis Pump & Tube Company. (See Booth, Earl C., assignor.)
- Indianapolis Pump & Tube Company. (See Noblitt, Q. G., Reeves, and Sparks, assignors.)
- Individual Drinking Cup Company. (See Graham, Samuel J., assignor.)
- Individual Drinking Cup Company. (See Moore, Hugh, assignor.)
- Individual Drinking Cup Company. (See Ringler, William A., assignor.)
- Industrial Associates, Incorporated. (See Jones, Arthur B., assignor.)
- Industrial Associates, Incorporated. (See Riley, Champlain L., assignor.)
- Industrial Brownhoist Engineering Corporation. (See Capper, Robert W., assignor.)
- Industrial Controller Co. (See Van Valkenburg, Herman L., assignor.)
- Industrial Corporation Limited. (See Gallet, Henri, assignor.)
- Industrial Gloves Corporation. (See Jensen, Karl E., assignor.)
- Industrial Gloves Corporation. (See Millard, Irwin W., assignor.)
- Industrial Rayon Corporation. (See Tenca, Louis P., assignor.)
- Industrial Research Corporation. (See Brockway, Carl P., assignor.)
- Industrial Research Corporation. (See Chilton, Ralph H., assignor.)
- Industrial Research Corporation. (See Davies, Henry R., assignor.)
- Industrial Research Corporation. (See Edwards, Henry J., assignor.)
- Industrial Research Corporation. (See Greene, Otto W., assignor.)
- Industrial Research Corporation. (See Huntley, Ernest R., assignor.)
- Industrial Research Corporation. (See Jerdone, Francis, jr., assignor.)
- Industrial Research Corporation. (See Jessen, James, assignor.)
- Industrial Research Corporation. (See Myers, Don D., assignor.)
- Industrial Spray-Drying Corporation. (See Lamont, Dallas R., assignor.)
- Industrial Spray Drying Corporation. (See Ostermann, Walter, assignor.)
- Industrial Waste Products Corporation. (See Dickerson, Walter H., assignor.)
- Industrial Waste Products Corporation. (See Marlatt, C. D., assignor, and Dickerson.)
- Industries of America, Inc. (See Briggs, Arthur J., assignor.)
- Inecto, Inc. (See Warren, Alfred T., assignor.)
- Infants Underwear Corporation. (See Klamie, Naif A., assignor.)
- Ingersoll, Fred, Omaha, Nebr. Frying pan. 1,697,427; Jan. 1.
- Ingersoll, George B., Dearborn, assignor to Federal Motor Truck Co., Detroit, Mich. Self-lubricating pin. 1,734,581; Nov. 5.
- Ingersoll Milling Machine Company, The. (See Ericson, E. Norman, assignor.)
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- Ingersoll-Rand Company. (See Bayles, L. C., and Tuttle, assignors.)
- Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
- Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
- Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
- Ingersoll-Rand Company. (See Hulshizer, George W., assignor.)
- Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
- Ingersoll-Rand Company. (See Kirgan, John F., assignor.)
- Ingersoll-Rand Company. (See Markley, Edward H., assignor.)
- Ingersoll-Rand Company. (See McIntyre, James K., assignor.)
- Ingersoll-Rand Company. (See Miller, Ralph, assignor.)
- Ingersoll-Rand Company. (See Morrison, William A., assignor.)
- Ingersoll-Rand Company. (See Peck, Caid H., assignor.)
- Ingersoll-Rand Company. (See Peters, Arthur E., assignor.)
- Ingersoll-Rand Company. (See Peters, A. E., and Ditson, assignors.)
- Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
- Ingersoll-Rand Company, et al. (See Rathbun, George J., assignor.)
- Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)
- Ingersoll-Rand Company. (See Rudlin, Frederick W., assignor.)
- Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
- Ingersoll-Rand Company. (See Smith, William A., assignor.)
- Ingersoll-Rand Company. (See Smith, William A., jr., assignor.)
- Ingersoll-Rand Company. (See Smith, William A., sr., and W. A., jr., assignors.)
- Ingersoll-Rand Company. (See Thomas, Floyd H., assignor.)
- Ingersoll-Rand Company. (See Wilhelm, Russell H., assignor.)
- Ingersoll, Robt. H., Inc. (See Ingersoll, Robert H., assignor.)
- Ingersoll, Robert H., deceased; C. S. Smith and F. C. Leubuscher, executors, assignors to Robt. H. Ingersoll, Inc., New York, N. Y. Mechanical pencil. 1,702,780; Feb. 19.
- Ingersoll, Robert H., New York, N. Y., deceased; C. S. Smith, Lansing, Mich., and F. C. Leubuscher, Essex Falls, N. J., executors, assignors to Robt. H. Ingersoll, Inc., New York, N. Y. Mechanical pencil. 1,725,585; Aug. 20.
- Ingersoll, Robert H., deceased, New York, N. Y.; C. S. Smith, Lansing, Mich., and F. C. Leubuscher, Essex Falls, N. J., executors, assignors to Robt. H. Ingersoll, Inc., New York, N. Y. Razor-blade stropper. 1,734,487; Nov. 5.
- Ingersoll, Robert H., deceased, New York, N. Y.; C. S. Smith, Lansing, Mich., and F. C. Leubuscher, Essex Falls, N. J., executors, assignors to Robt. H. Ingersoll, Inc., New York, N. Y. Razor-blade stropper. 1,740,243; Dec. 17.
- Ingersoll, Robert H., deceased, New York, N. Y.; C. S. Smith, Lansing, Mich., and F. C. Leubuscher, Essex Falls, N. J., executors, assignors to Robt. H. Ingersoll, Inc., New York, N. Y. Razor stropper. 1,740,349; Dec. 17.
- Ingham, Ernest. (See Mowat, A. L., and Ingham.)
- Ingham, Mark, Lowell, Mass. Double inspection jack spooler. 1,721,628; July 23.
- Ingle, Henry W., assignor to Hartford-Empire Company, Hartford, Conn. Take-out mechanism. 1,733,987; Oct. 29.
- Inglefield, Charles L., Bellevue, and H. H. Giles, Monessen, assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Tin-plate-cleaning machine. 1,739,593; Dec. 17.
- Inglis, Alfred H. (See Green, I. W., and Inglis.)
- Inglis, Alfred H., Orange, and L. G. Bostwick, East Orange, N. J., assignors to American Telephone and Telegraph Company. Locking mechanism. 1,700,799; Feb. 5.
- Inglis, Alfred H., Orange, and R. Guenther, Paterson, N. J., assignors to American Telephone and Telegraph Company. Telephone receiver. 1,738,653; Dec. 10.
- Inglis, Clarence S., Glyndon, Pa. Screen construction. 1,726,703; Sept. 3.
- Inglis, Francis G., Linthorpe, Middlesbrough, England. Apparatus for cooling and purifying gases. 1,707,163; Mar. 26.
- Inglis, Robert, Onaway, Mich. Apparatus for catching burglars. 1,732,270; Oct. 22.
- Ingraham, Frank E., Wellington, Ohio. Door-operating device. 1,740,350; Dec. 17.
- Ingraham, William T., Dover, N. J. Smokeless powder and treating the same. 1,710,024; Apr. 23.
- Ingraham, William T., Dover, N. J. Quick-burning delay powder. 1,716,313; June 4.
- Ingraham, William T., Dover, N. J. Flash-reducing agent for smokeless powders. 1,731,378; Oct. 15.



- Ingram, Alonzo P., Pittsburgh, Pa. Dispensing and severing device for rolled strip material. 1,704,044; Mar. 5.
- Ingram, Beatrice S., administratrix. (See Schneible, Joseph.)
- Ingram, Clifton M., Porter, assignor of one-third to H. W. Pramer, Muskogee, and one-third to R. Dedmon, Porter, Okla. Combined sleigh and boat. 1,716,230; June 4.
- Ingram, Edgar W., Wichita, Kans. Headgear. 1,709,578; Apr. 16.
- Ingram, Edgar W., Wichita, Kans. Cap. 1,725,803; Aug. 27.
- Ingram, Harry, Brooklyn, N. Y. Closure for tumblers, jars, and other containers. 1,710,984; Apr. 30.
- Ingram-Richardson Manufacturing Company. (See Frederick, Charles H., assignor.)
- Ingram, Thuselada E., Willows, Calif. Traffic signal. 1,705,922; Mar. 19.
- Ingram, William M. (See Cloud, H. D., and Ingram.)
- Ingram, William S. (See Cross, C. N., and Ingram.)
- Ingwersen, Gustav F., Denver, Colo. Dental model. 1,711,947; May 7.
- Ink, Rolla N. (See von Briesen, H., and Ink.)
- Inland Glass Works, Inc. (See Ohm, Albert J. D., assignor.)
- Inland Manufacturing Company, The. (See Chilton, Ralph H., assignor.)
- Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
- Inland Manufacturing Company, The. (See Scott, A. W., and Geyer, assignors.)
- Inland Rubber Company. (See La Jone, Nicholas, assignor.)
- Inland-Stuart Linings, Inc. (See Morehead, James C., assignor.)
- Inland-Stuart Linings, Inc. (See Stuart, Wallace A., assignor.)
- Inman, Edward R., jr., assignor to The Prairie Farmer Publishing Co., Chicago, Ill. Watch fob. Des. 79,374; Sept. 10.
- Inman, Harry A., Newark, N. Y. Container. 1,731,780; Oct. 15.
- Inman, Walter A., Waukegan, Ill. Refrigerator. 1,696,956; Jan. 1.
- Innes, George, assignor to Innes Shocker Company, Davenport, Iowa. Shock sweep. 1,707,199; Mar. 26.
- Innes Shocker Company. (See Innes, George, assignor.)
- Innovation Trunk Company. (See Trentacoste, Anthony J., assignor.)
- Inouye, Jinkichi, Sendai, Miyagi-Ken, Japan. Manufacturing acidproof and waterproof black ink. 1,738,998; Dec. 10.
- Insocho, Sidney D., and A. C. Morse, Shelby, Ohio. Apparatus for charging and discharging furnaces. 1,712,997; May 14.
- Inshaw, George R., Glasgow, Scotland. Transmission gear for overhead engine cam shafts. 1,741,570; Dec. 31.
- Inskeep, Alice C., Cedar Rapids, Iowa. Music-instruction device. 1,713,282; May 14.
- Insley Manufacturing Company. (See Dorward, Raymond, assignor.)
- Insley Manufacturing Company. (See Schmid, Carl G., assignor.)
- Instant Ice Corporation. (See Kenyon, Oades J., assignor.)
- Insulation Corporation, The. (See Bodman, Walter L., assignor.)
- Insulte Company, The. (See Ellis, George H., assignor.)
- Interflash Signal Corporation. (See Conover, Arthur V., assignor.)
- Interland, Joseph J., New York, N. Y. Orthopedic appliance. 1,719,550; July 2.
- Interlocking Fence Co. (See Getz, John B., assignor.)
- International Air Brake Company. (See Doty, Wade, assignor.)
- International Air Brake Company. (See Mitton, Robert E., assignor.)
- International Air Brake Company. (See Sawtelle, Charles A., assignor.)
- International Bleaching Corporation, The. (See Merrill, Albert D., assignor.)
- International Braid Company. (See Dennis, John R., assignor.)
- International Business Machines Corporation. (See Locke, Edward B., assignor.)
- International Business Machines Corporation. (See Mitendorf, William R., assignor.)
- International Business Machines Corporation. (See Peirce, John R., assignor.)
- International Cellucotton Products Co. (See Thompson, Oscar T., assignor.)
- International Cellucotton Products Co. (See Weiss, George, assignor.)
- International Cement Corporation. (See Durbin, Harvey R., assignor.)
- International Cigar Machinery Company. (See Bronander, Wilhelm B., assignor.)
- International Cigar Machinery Company. (See Clausen, S., and Hanson, assignors.)
- International Cigar Machinery Company. (See Ferenc, Lester, assignor.)
- International Cigar Machinery Company. (See Fitz Gerald, William T., assignor.)
- International Cigar Machinery Company. (See Fitz Gerald, W. T., and Miller, assignors.)
- International Cigar Machinery Company. See Halstead, John F., assignor.)
- International Cigar Machinery Company. (See Hawkins, Wilford J., assignor.)
- International Cigar Machinery Company. (See Lindgren, Walter R., assignor.)
- International Cigar Machinery Company. (See Neumair, J. A., and Wheeler, assignors.)
- International Coal Carbonization Company. (See McEwen, Samuel, assignor.)
- International Combustion Engineering Corporation. (See Caracristi, Virginius Z., assignor.)
- International Combustion Engineering Corporation. (See Cross, Bertram J., assignor.)
- International Combustion Engineering Corporation. (See De Lorenzi, Otto, assignor.)
- International Combustion Engineering Corporation. (See de Neergaard, Leif E., assignor.)
- International Combustion Engineering Corporation. (See Frisch, Martin, assignor.)
- International Combustion Engineering Corporation. (See Hansen, August O., assignor.)
- International Combustion Engineering Corporation. (See Hunter, Arthur T., assignor.)
- International Combustion Engineering Corporation. (See Jackson, George P., assignor.)
- International Combustion Engineering Corporation. (See Jacques, Stanley A., assignor.)
- International Combustion Engineering Corporation. (See Kreisinger, Henry, assignor.)
- International Combustion Engineering Corporation. (See Lundgren, Edwin, assignor.)
- International Combustion Engineering Corporation. (See Packard, Edwin A., assignor.)
- International Combustion Engineering Corporation. (See Purcell, Thomas B., assignor.)
- International Combustion Engineering Corporation. (See Rühr, Arnold, assignor.)
- International Combustion Engineering Corporation. (See Schwartz, Carl, assignor.)
- International Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
- International Combustion Engineering Corporation. (See Vogel, William H., assignor.)
- International Combustion Engineering Corporation. (See Wood, Wilfred R., assignor.)
- International Combustion Engineering Corporation. (See Zinkernagel, Richard, assignor.)
- International Controlled Lamp Company, The. (See Keck, George S., assignor.)
- International Corset Company. (See Ulman, Rosanna D., assignor.)
- International Derrick & Equipment Company, The. (See Bloss, Richard R., assignor.)
- International Derrick & Equipment Company, The. (See Bloss, R. R., Pfeil, and Maurer, assignors.)
- International Derrick & Equipment Company, The. (See Putnam, James K., assignor.)
- International Derrick and Equipment Company. (See Tidball, John A., assignor.)
- International Electrical Engineers Incorporated. (See Sharpsteen, Stephen H., assignor.)
- International Electrical Patents Company. (See Weyler, F. P. A., and Freed, assignors.)
- International Engineering Corp. (See Driscoll, Daniel V., assignor.)
- International Fire Equipment Corporation. (See Bronander, Wilhelm B., assignor.)
- International Fireproof Products Corporation. (See Vivas, Fernando S., assignor.)
- International Glass Machinery Co. (See Weber, Karl A., assignor.)
- International Harvester Company. (See Adams, E. H., and Mitchell, assignors.)
- International Harvester Company. (See Allan, James R., assignor.)
- International Harvester Company. (See Aspenwall, Charles O., assignor.)
- International Harvester Company. (See Beall, William L., assignor.)
- International Harvester Company. (See Benjamin, Bert R., assignor.)
- International Harvester Company. (See Benjamin, B. R., and Roney, assignors.)
- International Harvester Company. (See Blewett, Arthur R., assignor.)
- International Harvester Company. (See Bucknam, Fred-eric A., assignor.)
- International Harvester Company. (See Dennis, Samuel K., assignor.)
- International Harvester Company. (See Dennis, S. K., and Benjamin, assignors.)
- International Harvester Company. (See Dewey, Frederick L., assignor.)
- International Harvester Company. (See Dwyer, William C., assignor.)
- International Harvester Company. (See French, Charles A., assignor.)
- International Harvester Company. (See Graham, William S., assignor.)
- International Harvester Company. (See Hipple, James L., assignor.)
- International Harvester Company. (See Hoffmeister, Frederick W., assignor.)
- International Harvester Company. (See Horthy, W. A., and Hodsdon, assignors.)



- International Harvester Company. (See Johnson, Arnold E. W., assignor.)
- International Harvester Company. (See Johnston, Edward A., assignor.)
- International Harvester Company. (See Johnston, E. A., Baker, and Hagen, assignors.)
- International Harvester Company. (See Johnston, E. A., Benjamin, and Baker, assignors.)
- International Harvester Company. (See Johnston, E. A., Benjamin, and Merwin, assignors.)
- International Harvester Company. (See Johnston, E. A., and Cady, assignors.)
- International Harvester Company. (See Johnston, E. A., and Hodsdon, assignors.)
- International Harvester Company. (See Jones, John W., jr., assignor.)
- International Harvester Company. (See Keith, Robert R., assignor.)
- International Harvester Company. (See Kipp, Roy H., assignor.)
- International Harvester Company. (See Mitchell, Robert M., assignor.)
- International Harvester Company. (See Morris, David M., assignor.)
- International Harvester Company. (See Mowry, Edward, assignor.)
- International Harvester Company. (See Mowry, E., and Barker, assignors.)
- International Harvester Company. (See Pearson, Charles, assignor.)
- International Harvester Company. (See Peterson, Walter R., assignor.)
- International Harvester Company. (See Raney, Clemma R., assignor.)
- International Harvester Company. (See Raney, C. R., and Johnson, assignors.)
- International Harvester Company. (See Robinson, C. W., and Dwyer, assignors.)
- International Harvester Company. (See Sandstrom, F. C., and Alexander, assignors.)
- International Harvester Company. (See Scarlett, Arthur A., assignor.)
- International Harvester Company. (See Schryer, Paul F., assignor.)
- International Harvester Company. (See Smith, Ernest C., assignor.)
- International Harvester Company. (See Smith, Leonard E., assignor.)
- International Harvester Company. (See Thompson, William H., assignor.)
- International Harvester Company. (See Webber, William, assignor.)
- International Harvester Company. (See Welty, Albert B., assignor.)
- International Harvester Company. (See Wessman, Arnt W., assignor.)
- International Harvester Company. (See Witte, Gustav W., assignor.)
- International Heater Company. (See Wagstaff, Albert, assignor.)
- International Motor Company. (See Anderson, Robert G., assignor.)
- International Motor Company. (See Bolger, Robert S., assignor.)
- International Motor Company. (See Duesler, George, assignor.)
- International Motor Company. (See Erwin, Fred, assignor.)
- International Motor Company. (See Froesch, Charles, assignor.)
- International Motor Company. (See Getzoff, Edward M., assignor.)
- International Motor Company. (See Gurney, Erving R., assignor.)
- International Motor Company. (See Hasselkus, William E. B., assignor.)
- International Motor Company. (See Hewitt, Edward R., assignor.)
- International Motor Company. (See Horine, Merrill C., assignor.)
- International Motor Company. (See Jansson, Axel J., assignor.)
- International Motor Company. (See Josephs, Lyman C., jr., assignor.)
- International Motor Company. (See Jupp, William B., assignor.)
- International Motor Company. (See Leipert, August H., assignor.)
- International Motor Company. (See Manville, Keith R., assignor.)
- International Motor Company. (See Masury, Alfred F., assignor.)
- International Motor Company. (See Masury, A. F., and Leipert, assignors.)
- International Motor Company. (See Nein, Charles L., assignor.)
- International Motor Company. (See Pampinella, Frank, assignor.)
- International Motor Company. (See Queeney, Frank E., assignor.)
- International Motor Company. (See Robbins, Azor D., assignor.)
- International Motor Company. (See Schantz, Gordon M., assignor.)
- International Motor Company. (See Wells, David H., assignor.)
- International Motor Company. (See Williams, Harry, assignor.)
- International Motor Company. (See Wilson, Raymond C., assignor.)
- International Musical Corporation. (See Large, John H., assignor.)
- International Musical Corporation. (See Schmidt, Walter, assignor.)
- International Nickel Company, The. (See McKnight, C., jr., Wickenden, and Merica, assignors.)
- International Oxygen Company. (See Quelch, George C., assignor.)
- International Paper Company. (See Mahannah, Everett A., assignor.)
- International Paper Company. (See Read, Robert E., assignor.)
- International Patent Licensing Corporation. (See Peters, William A., assignor.)
- International Patents Development Company. (See Berlin, Henry, assignor.)
- International Patents Development Company. (See Chalmers, George W., assignor.)
- International Patents Development Company. (See Ebert, C., Newkirk, and Moskowitz, assignors.)
- International Patents Development Company. (See Newkirk, William B., assignor.)
- International Pavement Company, The. (See Morrison, Robert F., assignor.)
- International Postal Supply Company. (See Zahn, Lawrence J., assignor.)
- International Postal Supply Company. (See Zahn, L. J., and Schroeder, assignors.)
- International Precipitation Company. (See Jakosky, John J., assignor.)
- International Precipitation Company. (See Marshall, Kenneth I., assignor.)
- International Precipitation Company. (See Viets, F. H., and Weiskopf, assignors.)
- International Precipitation Company. (See Welch, Harry V., assignor.)
- International Precipitation Company. (See Witte, Gustav A., assignor.)
- International Printing Company. (See Hagist, Herman J., assignor.)
- International Printing Company. (See Hess, Joseph J., assignor.)
- International Printing Ink Corporation. (See Brasington, Charles P., assignor.)
- International Projector Corporation. (See Dina, Augusto, assignor.)
- International Projector Corporation. (See De Vault, Ralph P., assignor.)
- International Radiator Corp. (See Beach, Ralph H., assignor.)
- International Seal & Knot Protector Co., The. (See Des-sauer, Norman, assignor.)
- International Seal and Knot Protector C., The. (See Keidel, Frank, assignor.)
- International Shoe Company. (See Copeland, William A., assignor.)
- International Shoe Company. (See Hering, Theodore G., assignor.)
- International Shoe Company. (See Madden, John, assignor.)
- International Shoe Company. (See Parker, John A., assignor.)
- International Silver Company. (See Barousse, Ignacio, assignor.)
- International Silver Co. (See Beck, Ernest T., assignor.)
- International Silver Co. (See Brown, Leslie A., assignor.)
- International Silver Company. (See Cayer, Theodore E., assignor.)
- International Silver Company. (See Hillbom, Henrik, assignor.)
- International Silver Company. (See Kintz, Alfred G., assignor.)
- International Silver Company. (See Leech, Hilton, assignor.)
- International Silver Company. (See Leech, John, assignor.)
- International Silver Company. (See Poole, Page G., assignor.)
- International Silver Company. (See Rolfe, Walter T., assignor.)
- International Silver Company. (See Sponholz, William C., assignor.)
- International Silver Company. (See Tucker, Edna B., assignor.)
- International Smoke Burner Co. (See Hammer, Anthony J., assignor.)
- International Spotlight Corporation. (See Sklarek, Clifford, assignor.)
- International Stamping Co. (See Bates, Carl S., assignor.)
- International Stamping Co., The. (See Green, Albert H., assignor.)
- International Steel and Iron Company, The. (See Allen, G. H., and Hagenbook, assignors.)
- International Steel Tie Company, The. (See Day, William P., assignor.)
- International Steel Tie Company, The. (See Fenton, Lorain J., assignor.)



- International Taxameter Corporation. (See Fausel, C. A., and Bauer, assignors.)
- International Textbook Company. (See Bregnan, Mark F., assignor.)
- International Ticket Scale Corporation. (See Sinel, Joseph, assignor.)
- International Time Recording Company of New York. (See Bryce, James W., assignor.)
- International Time Recording Company of New York. (See Bryce, J. W., and Getz, assignors.)
- International Time Recording Company of New York. (See Harrison, Laurence S., assignor.)
- International Time Recording Company of New York. (See Larrabee, C. E., and Harrison, assignors.)
- International Toy Corporation. (See Babbitt, Edwin V., assignor.)
- International Toy Corporation. (See MacBride, Donald H., assignor.)
- Internationale Bergin-Compagnie voor Olie- en Kolen-Chemie. (See Debo, Arno, assignor.)
- Internationale Bergin-Compagnie voor Olieen Kolen-Chemie. (See Hofsaess Max, assignor.)
- Internationale Nahrungs- und Genussmittel Aktiengesellschaft. (See Staudinger, H., and Reichstein, assignors.)
- Interstate Folding Box Company, The. (See Bergstein, Samuel, assignor.)
- Interstate Folding Box Company, The. (See Bergstein, S., and Lindner, assignors.)
- Interstate Iron and Steel Company. (See Blocker, Asa T., assignor.)
- Interstate Iron and Steel Company. (See Forrest, Andrew, assignor.)
- Interstate Iron and Steel Company. (See Leonard, Edwin E., assignor.)
- Interstate Roofing & Foundry Co. (See Britton, Walter F., assignor.)
- Intertype Corporation. (See Freund, Herman R., assignor.)
- Intertype Corporation. (See Southwick, James J., assignor.)
- Intertype Corporation. (See Sperry, Samuel E., assignor.)
- Intertype Corporation. (See Willis, Le Roy W., assignor.)
- Intertype Corporation. (See Woodhouse, Orange G., assignor.)
- Interwoven Hills, Inc. (See Mettler, J. W., Haas, and Evans, assignors.)
- Intingaro, Biagio, New Rochelle, N. Y. Radiator-cap ornament. Des. 79,333; Sept. 3.
- Intingaro, Biagio, New Rochelle, N. Y. Radiator ornament. Des. 80,122; Dec. 17.
- Intingaro, Biagio, New Rochelle, N. Y. Radiator ornament. Des. 80,123; Dec. 17.
- Intingaro, Biagio, New Rochelle, N. Y. Radiator ornament. Des. 80,124; Dec. 17.
- Invention Development Corporation. (See Holtz, John B., assignor.)
- Invention Engineering Corporation. (See Lyford, Robert E., assignor.)
- Invernizzi, Pietro, Turin, Italy. Motor and transmission unit. 1,732,405; Oct. 22.
- Invincible Laundry Equipment Co. (See Kalk, Albert C., assignor.)
- Ioerger, August G., Harper, Kans. Caponizing instrument. 1,739,146; Dec. 10.
- Ionides, Alexander C. (See Gordon, John W., assignor.)
- Ionizing Corporation of America. (See Henry, Ira W., assignor.)
- Iowa State College of Agriculture and Mechanic Arts. (See Smith, Earl B., assignor.)
- Ipsen, Carl L., Schenectady, N. Y., assignor to General Electric Company. Electric-arc welding. 1,728,863; Sept. 17.
- Ipsen, Carl L., Schenectady, N. Y., assignor to General Electric Company. Furnace. 1,731,166; Oct. 8.
- Ipsen, Carl L., and A. N. Otis, Schenectady, N. Y., assignors to General Electric Company. Electric furnace. 1,719,888; July 9.
- Irby, Alfred N., Valentine, Tex. Electrically-operated pump. 1,730,075; Oct. 1.
- Irby, William Lynn, Mass. assignor to General Electric Company. Electrode. 1,722,146; July 23.
- Iredell, Charles V., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Lubricant for wire drawing. 1,724,134; Aug. 13.
- Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Vehicle tire. Des. 77,836; Feb. 26.
- Iredell, Robert, and I. J. Remark, assignors to The General Tire & Rubber Company, Akron, Ohio. Wind-up mechanism for bias cutters. 1,724,877; Aug. 13.
- Ireland Aircraft Inc. (See Brimm, Daniel J., Jr., assignor.)
- Ireland, George B., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for recording pulsating pressure. 1,729,289; Sept. 24.
- Ireland, George B., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for measuring and recording pulsating pressure. 1,729,290; Sept. 24.
- Ireland, George B., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for measuring pulsating pressure. 1,729,291; Sept. 24.
- Ireland, Joseph W., Quincy, assignor to Moorman Mfg. Co., Chicago, Ill. Sheep-dosing device. 1,699,590; Jan. 22.
- Ireland, Robert H., New York, N. Y. Extensible stepladder and chair. 1,723,938; Aug. 6.
- Ireland, Thomas H., Rockville Center, N. Y. Humidifier. 1,730,212; Oct. 1.
- Ireland, Thomas H., Rockville Center, N. Y. System for drying paper and textiles and the like. 1,737,926; Dec. 3.
- Irgens, Finn T. (See King, D. W., and Irgens.)
- Irish, David J., Staten Island, assignor to Foster Wheeler Corporation, New York, N. Y. Air-mixing burner. 1,740,985; Dec. 24.
- Irish, Charles W., Kansas City, Mo. Gas radiator. 1,729,831; Oct. 1.
- Irish, Russell E., Dormont, Pa. Wire-testing device. 1,714,169; May 21.
- Ironside, James. (See Blaskewitz, W., and Ironside.)
- Ironside, James. (See Blaskewitz, W., Overly, Lambert, and Ironside.)
- Ironside, James, assignor, by mesne assignments, to Clayton & Lambert Manufacturing Company, Detroit, Mich. Collapsible stove structure. 1,740,943; Dec. 24.
- Ironside, James, assignor to Clayton & Lambert Manufacturing Co., Detroit, Mich. Stove structure. 1,730,008; Oct. 1.
- Ironton Store & Manufacturing Co. (See Reeves, Herbert M., assignor.)
- Ironwood Manufacturing Company. (See Erickson, Hans M., assignor.)
- Irrgang, William F. (See Little, T. P., and Irrgang.)
- Irrgang, William F., Chicopee, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Turn-under stitching device. 1,716,585; June 11.
- Irrgang, William F., Chicopee, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Fabric guide. 1,717,845; June 18.
- Irrgang, William F., Chicopee, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Band-turning device. 1,737,157; Nov. 26.
- Irsch, Jacob, New York, assignor of one-half to B. E. Jones, Freeport, N. Y. Amusement ride. 1,734,856; Nov. 5.
- Isrik, Edward L., Ingalls, Kans. Railroad-crossing gate. 1,740,815; Dec. 24.
- Irvin, Jay S. et al. (See Grafton, Howard T., assignor.)
- Irvin, John L., and L. A. Brauer, Houston, Tex. Portable pipe-cutting-torch support. 1,705,923; Mar. 19.
- Irvin, Richard, Knoxville, Pa. Air filter. 1,741,367; Dec. 31.
- Irvine, William, assignor, by mesne assignments, to H. B., E. L., and A. Wolf, copartners doing business as National Metal Edge Box Company, Philadelphia, Pa. Stapling machine. 1,731,379; Oct. 15.
- Irving, Andrew H., Berkeley, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Roofing material. 1,705,015; Mar. 12.
- Irving, Frank J., assignor to Pines Winterfront Company, Chicago, Ill. Thermostatically-controlled power-actuated means. 1,704,943; Mar. 12.
- Irving Iron Works Company. (See Irving, Walter E., assignor.)
- Irving Iron Works Company. (See Price, Paul L., assignor.)
- Irving Iron Works Company. (See Voskamp, John A., assignor.)
- Irving, James H. (See McLendon, T. O., and Irving.)
- Irving, Philip, D. E. Lindquist, S. E. Eusey, and O. B. Mueller, assignors to Mueller Brass Co., Port Huron, Mich. Lawn sprinkler. 1,726,490; Aug. 27.
- Irving-Pitt Manufacturing Company. (See Rupf, Frank E., assignor.)
- Irving-Pitt Manufacturing Company. (See Van Valkenburgh, Richard M., assignor.)
- Irving, Thomas L., St. Anicet, Quebec, Canada. License-plate carrier. 1,725,194; Aug. 20.
- Irving, Walter E., Glenbrook, Conn., assignor to Irving Iron Works Company. Continuous grating structure for flooring and like purposes. 1,733,966; Oct. 29.
- Irwin, Bartley, assignor of four-tenths to R. H. Cummings, Long Beach, Calif. Overdrive transmission. 1,722,091; July 23.
- Irwin, Charles J., assignor to Illinois Tool Works, Chicago, Ill. Hob grinder. 1,704,833; Mar. 12.
- Irwin Foundry and Mine Car Company. (See Exton, Edward A., assignor.)
- Irwin, Henry J., Jersey City, N. J., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., New York, N. Y. Liquid cooler. 1,705,117; Mar. 12.
- Irwin, Henry J., Jersey City, N. J., assignor, by mesne assignments, to The Crown Cork & Seal Company, Inc., New York, N. Y. Carbonator. 1,709,579; Apr. 16.
- Irwin, Herbert G., Amarillo, Tex. Carbide agitator for acetylene generators. 1,727,981; Sept. 10.
- Irwin, John F., assignor of one-fourth to E. S. Brainard and one-fourth to O. L. Brainard, Sacramento, Calif. Internal-combustion engine. 1,713,759; May 21.
- Irwin, Robert W., Company. (See Irwin, R. W., and Bekius, assignors.)
- Irwin, Robert W., and N. Bekius, assignors to Robert W. Irwin Company, Grand Rapids, Mich. End extension table. 1,736,533; Nov. 19.
- Irwin, Rodney C., Kansas City, Mo., assignor to A. H. Heisey & Company, Newark, Ohio. Combination cigarette holder and ash tray. Des. 77,602; Jan. 29.
- Isaac, Archibald C. T., Pittsfield, Mass., assignor to General Electric Company. Temperature indicator. 1,717,216; June 11.
- Isaac, Elmer E. (See Staudenmeir, L., and Isaac.)
- Isaac, Peter, Winnipeg, Manitoba, Canada. Agricultural implement. 1,738,185; Dec. 3.



- Isaacs, Harry H. (See Fentress, George E., assignor.)  
 Isaacson, Elmer T., El Campo, Tex. Clock. 1,720,902; July 16.  
 Isaacson, William O., Chicago, Ill. Anchor. 1,741,776; Dec. 31.  
 Isaak, Nathaniel K., Parkston, S. Dak. Windshield heater. 1,741,058; Dec. 24.  
 Isabelle, Henry J., assignor to Worcester Knitting Co., Worcester, Mass. Cut-off for sewing machines. 1,731,496; Oct. 15.  
 Isabey-Paris, Inc. (See Acker, Miriam C., assignor.)  
 Isabey-Paris Incorporated. (See Rebel, Leopold M., assignor.)  
 Isacco, Vittorio, Paris, France. Flying machine. 1,697,009; Jan. 1.  
 Isachsen, Ludvik, Larvik, Norway. Device for extension of the distance between an automobile and its trailer. 1,730,076; Oct. 1.  
 Isachsen, Ludvik, Larvik, Norway. Coupling arrangement for vehicle trailers. 1,730,077; Oct. 1.  
 Isbaner, Felix F., and P. A. Dash, Chicago, Ill. Window construction. 1,713,831; May 21.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 78,815; June 25.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 78,816; June 25.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 78,817; June 25.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 78,818; June 25.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 78,819; June 25.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Des. 78,820; June 25.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 78,821; June 25.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,401; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,402; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,403; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,404; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,405; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,406; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,407; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,408; Sept. 10.  
 Ischinger, Alfred E., assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 79,409; Sept. 10.  
 Ischinger, Alfred E., Reading, assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 80,232; Dec. 31.  
 Ischinger, Alfred E., Reading, assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 80,233; Dec. 31.  
 Ischinger, Alfred E., Reading, assignor to Berkshire Knitting Mills, Wyomissing, Pa. Stocking. Des. 80,234; Dec. 31.  
 Isenberg, Hans O. C., New Rochelle, assignor to General Chemical Company, New York, N. Y. Apparatus for chemically transforming gases. 1,719,610; July 2.  
 Isermann, Samuel, Orange, J. W. Orelup, East Orange, and E. Ohlsson, Jersey City, N. J. Denaturant. 1,730,850; Oct. 8.  
 Isham, Robert M., Okmulgee, Okla., assignor, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Separation of olefines from petroleum product. 1,729,782; Oct. 1.  
 Isham, Robert M., Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y. Separation of alcohols from polymers. 1,732,894; Oct. 22.  
 Isherwood, Arthur, Boston, assignor to Thomas Leyland & Co., Inc., Readville, Boston, Mass. Cloth spreader or expander. 1,697,830; Jan. 1.  
 Isherwood, Arthur, assignor to Thomas Leyland & Co., Inc., Boston, Mass. Cloth spreader or expander. 1,719,375; July 2.  
 Isisa, Charles. (See Runkles, E. M., and Isisa.)  
 Iskyan, George S., assignor to G. M. Co. Manufacturing Company, Inc., Long Island City, N. Y. Valve-grinding tool. 1,722,577; July 30.  
 Isler, Herman, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Centerless grinder. 1,733,094; Oct. 22.  
 Isler, William. (See O'Connor, Leo J., assignor.)  
 Isler, William, et al. (See Schmitz, Fred A., assignor.)  
 Isler, William, Canton, Ohio, assignor to The Berger Manufacturing Company, Locker door. 1,724,135; Aug. 13.  
 Isler, William, assignor to The Berger Manufacturing Company, Canton, Ohio. Latch for lockers. 1,729,344; Sept. 24.  
 Isley, George H., assignor to Morgan Construction Company, Worcester, Mass. Reversing and controlling apparatus for heating furnaces. 1,721,735; July 23.  
 Isley, George H., assignor to Morgan Construction Company, Worcester, Mass. Apparatus for reversing and controlling regenerative furnaces. 1,722,701; July 30.  
 Isley, George H., assignor to Morgan Construction Company, Worcester, Mass. Operation and construction of regenerative furnaces used in steel making. 1,724,656; Aug. 13.  
 Isobe, Hajime, Ochiai-Machi, Toyotama-Gori, assignor to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Dehydrating substance. 1,740,351; Dec. 17.  
 Isolantite Company of America, Inc. (See Crowley, Henry L., assignor.)  
 Isom, Edward W., Scarsdale, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,708,180; Apr. 9.  
 Isom, Edward W., Scarsdale, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,711,351; Apr. 30.  
 Isom, Edward W., Scarsdale, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,722,147; July 23.  
 Isom, Edward W., Scarsdale, assignor to Sinclair Refining Company, New York, N. Y. Cracking oil. 1,722,222; July 23.  
 Isom, Edward W., Scarsdale, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,722,223; July 23.  
 Isom, Edward W., Locust Valley, N. Y., E. C. Herthel, and H. L. Pelzer, assignors to Sinclair Refining Company, Chicago, Ill. Cracking oil. 1,727,707; Sept. 10.  
 Isonhart, John L., Davenport, Iowa. Mixer for internal-combustion engines. 1,730,731; Oct. 8.  
 Isothermos Corporation of America. (See de Bac, Alfred, assignor.)  
 Isothermos Corporation of America. (See Eveno, Georges, assignor.)  
 Isothermos Corporation of America. (See Grandjean, Georges, assignor.)  
 Israelson, Fritz, Stockholm, Sweden. Circular-knitting machine. 1,718,648; June 25.  
 Isshiki, Telzo, Tokyo, Japan, assignor to General Electric Company. Insulator tester. 1,723,861; Aug. 6.  
 Ito, Keisuke, Tokyo, Japan. Double-folding umbrella. 1,728,062; Sept. 10.  
 Ittig, George P., assignor to Blackstone Silver Company, Incorporated, Bridgeport, Conn. Cafeteria pot. Des. 78,107; Mar. 26.  
 Ivanhoff, Peter S., assignor to W. B. Bastian, trustee, Los Angeles, Calif. Quick-throw mechanism. 1,715,327; May 28.  
 Ivers & Pond Piano Company. (See Pond, Clarence H., assignor.)  
 Iversen, Lorenz, assignor to Mesta Machine Company, Pittsburgh, Pa. Rolling mill. 1,700,054; Jan. 22.  
 Iverson, Christian, Inc. (See Paulson, Arthur, assignor.)  
 Iverson, Iver, Adams, Wis. Level. 1,732,335; Oct. 22.  
 Ivory, Sidney H., assignor to Hydraulic-Press Brick Company, St. Louis, Mo. Salt-glazing brick and other clay products. 1,735,167; Nov. 12.  
 Ives, Charles Q., Stratford, Conn., assignor to Brown Company, Berlin, N. H. Apparatus for raising liquids. 1,741,571; Dec. 31.  
 Ives, Clifford E. (See Gollnick, P. A., Ives, Broderick, and Arey.)  
 Ives Corporation, The. (See Dower, Emmons M., assignor.)  
 Ives Corporation, The. (See Ives, Harry C., assignor.)  
 Ives Corporation, The. (See Thorn, William E., assignor.)  
 Ives, Frederic E., Philadelphia, Pa. Photographic strip negative and color-print-making system. 1,722,092; July 23.  
 Ives, Harry C., assignor, by mesne assignments, to The Ives Corporation, Bridgeport, Conn. Motor unit for toy locomotives. 1,710,702; Apr. 30.  
 Ives, Harry C., assignor, by mesne assignments, to The Ives Corporation, Bridgeport, Conn. Toy electric locomotive. 1,713,966; May 21.  
 Ives, Herbert E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making half tones. 1,711,684; May 7.  
 Ives, Herbert E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Picture-transmission system. 1,717,781; June 18.  
 Ives, Herbert E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Television. 1,738,007; Dec. 3.  
 Ives, Herbert E., Montclair, and J. W. Horton, Millburn, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical transmission. 1,717,782; June 18.  
 Ivey, Minnie M., Valdosta, Ga. Attachment for dolls. 1,725,919; Aug. 27.  
 Ivory, Chester S., Philadelphia, Pa. Tooth separator. 1,702,869; Feb. 19.  
 Ivory, Chester S., Philadelphia, Pa. Dental file. 1,737,374; Nov. 26.  
 Ivory, Granville T., Oak Park, Ill. Smoking pipe. 1,712,998; May 14.  
 Iwasaki, Toshiya. (See Hagiwara, Kiyohiko, assignor.)  
 Izan, John L., Savannah, Ga. Permanent-waving cabinet. 1,717,217; June 11.  
 Izanaga y Ruiz, Carmen, et al., heirs. (See de Castro & Izanaga, Sergio F.)  
 Izawa, Riichiro, Shimokyo-Ku, Kyoto, Japan. Device for pointing bristles of brushes. 1,705,767; Mar. 19.  
 Izsak, Alexander, Central Park, N. J., assignor to Eastern Alcohol Corporation, Wilmington, Del. Producing butyl and isopropyl alcohols. 1,725,083; Aug. 20.  
 Izsak, Ignatius. (See Kasztory, Frank, assignor.)  
 Izzo, Frank, Huntington, W. Va. Brake-beam safety iron. 1,717,218; June 11.



- J. B. Automatic Terminal Manufacturing Company. (See Bone, John W., assignor.)
- Jaakkola, Johannes, Harjavalta, Suomi-Finland. Thrashing machine. 1,728,124; Sept. 10.
- Jack Frost Company, The. (See Parrshall, Dallas D., assignor.)
- Jack, Herbert, Huntington Park, Calif. Radiator ornament. Des. 78,626; May 28.
- Jack, Robert K., Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich. Pump construction. 1,705,016; Mar. 12.
- Jack, Robert K., Lansing, assignor to General Motors Corporation, Detroit, Mich. Piston. 1,713,231; May 14.
- Jack, William G., Hamilton, Ontario, Canada. Condensing coil. 1,697,600; Jan. 1.
- Jackes-Evans Manufacturing Company. (See Jackes, Stanley F., assignor.)
- Jackes, Stanley F., assignor to Jackes-Evans Manufacturing Company, St. Louis, Mo. Stovepipe. 1,741,304; Dec. 31.
- Jackman, Arthur J., Forest Hills Borough, assignor to The Vesuvius Crucible Company, Swissvale, Pa. Furnace structure. 1,709,350; Apr. 16.
- Jackoboiche, Edward J., Grand Rapids, Mich. Road scraper. 1,711,789; May 7.
- Jackoboiche, Edward J., Grand Rapids, Mich. Hydraulic scraper. 1,733,123; Oct. 29.
- Jackson, Albert H., London, England. Electric-motor-control system. 1,720,189; July 9.
- Jackson, Albert M. (See Beattie, J. H., and Jackson.)
- Jackson, Andrew L., Fort Worth, Tex. Ice-scoring machine. 1,722,576; July 30.
- Jackson, Arthur C., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Hood catch. 1,697,652; Jan. 1.
- Jackson, Arthur H., Huntington Park, Calif. Low-resistance permanent wire. 1,738,828; Dec. 10.
- Jackson, Benjamin B., Delphi, Ind. Bottle brush. Re-17,249; Mar. 26.
- Jackson Boilers Limited. (See Barrow, Adam G., assignor.)
- Jackson Boilers Limited. (See Hargreaves, Harold, assignor.)
- Jackson, Byron. (See Strand, H., and Jackson.)
- Jackson, Byron, Pump Co. (See Grant, John, assignor.)
- Jackson, Byron, Pump Co. (See Hollander, Aladar, assignor.)
- Jackson, Byron, Pump Co. (See Smith, Nelson K., assignor.)
- Jackson, Byron, Pump Co. (See Wilson, Elihu C., assignor.)
- Jackson, Charles W., Dracut, Mass. Helicopter. 1,725,276; Aug. 20.
- Jackson, Chester E., Ovid, Mich. Poultry coop. 1,703,625; Feb. 26.
- Jackson, Corwill, Chicago, Ill. Tamper or like impact tool. 1,706,575; Mar. 26.
- Jackson, Corwill, Chicago, Ill. Ballast-tamping machine. 1,713,340; May 14.
- Jackson, Corwill, Chicago, Ill. Tamping machine. 1,715,131; May 28.
- Jackson, Corwill, Chicago, Ill. Tamper or like impact tool. 1,716,638; June 11.
- Jackson, Corwill, Chicago, Ill. Breaking machine. 1,731,576; Oct. 15.
- Jackson, Corwill, Chicago, Ill. Tamping and like implement. 1,741,240; Dec. 31.
- Jackson, Ernest W., Austin, Tex. Record binder. 1,736,711; Nov. 19.
- Jackson, Ernest W., Sausalito, assignor to Perfecto Gear Differential Co., Oakland, Calif. Transmission mechanism. 1,703,846; Feb. 26.
- Jackson, Frank E. (See Natzel, G. H., Jackson, and Koehl.)
- Jackson, George F., Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Seaming head for can-closing machines. 1,731,136; Oct. 8.
- Jackson, George P. (See Bell, J. E., and Jackson.)
- Jackson, George P. (See Van Brunt, J., and Jackson.)
- Jackson, George P., assignor to Combustion Engineering Corporation, New York, N. Y. Furnace. 1,701,852; Feb. 12.
- Jackson, George P., assignor to Combustion Engineering Corporation, New York, N. Y. Furnace. 1,701,853; Feb. 12.
- Jackson, George P., Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Assisting combustion in furnaces. 1,701,854; Feb. 12.
- Jackson, George P., Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Assisting combustion in furnaces. 1,701,855; Feb. 12.
- Jackson, George P., Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Pulverized-coal-feeding device. 1,708,503; Apr. 9.
- Jackson, George P., Flushing, assignor to Combustion Engineering Corporation, New York, N. Y. Brick-anchoring member. 1,712,078; May 7.
- Jackson, George P., Flushing, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace and boiler. 1,714,600; May 28.
- Jackson, George P., Flushing, N. Y., assignor to International Combustion Engineering Corporation. Boiler furnace. 1,714,673; May 28.
- Jackson, George P., Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Furnace-wall construction. 1,736,882; Nov. 26.
- Jackson, George P., Flushing, N. Y., assignor to Combustion Engineering Corporation. Furnace protection. 1,739,594; Dec. 17.
- Jackson, Harvey F., Brooklyn, assignor, by mesne assignments, to Conwell, Graphic Company, Incorporated, New York, N. Y. Advertising device. 1,698,437; Jan. 8.
- Jackson, Helen L. (See Maloon, Earl B., assignor.)
- Jackson, Henry W., East Orange, N. J., assignor to General Electric Company. Electron-discharge device. 1,738,430; Dec. 3.
- Jackson, Henry W., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 1,738,475; Dec. 3.
- Jackson, Irving, New York, N. Y. Radiator inclosure. 1,702,870; Feb. 19.
- Jackson, James A., Schenectady, N. Y., assignor to General Electric Company. Automatic circuit-controlling device. 1,708,886; Apr. 9.
- Jackson, James A., Schenectady, N. Y., assignor to General Electric Company. System of motor control. 1,708,887; Apr. 9.
- Jackson, James G., Stevenston, Scotland, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for delivering material into receptacles. 1,697,831; Jan. 1.
- Jackson, John W., Fall River, assignor to American Moistening Company, Boston, Mass. Liquid-supply system. 1,705,118; Mar. 12.
- Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Cake pan. 1,710,842; July 9.
- Jackson, Joseph M., St. Joseph, Mo. Refrigerator. 1,724,937; Aug. 20.
- Jackson, Joseph R., Jr., Boston, Mass., assignor to A. B. See Elevator Company, Inc., New York, N. Y. Collapsible gate. 1,718,649; June 25.
- Jackson, Joseph R., Jr., Boston, Mass., assignor to A. B. See Elevator Company, Inc., New York, N. Y. Collapsible gate. 1,721,998; July 23.
- Jackson, Joseph W., assignor to H. Perlmutter, Brooklyn, N. Y. Baby-carriage top. Des. 77,899; Mar. 5.
- Jackson, Joseph W., assignor of one-half to H. Perlmutter, Brooklyn, N. Y. Wheel structure. 1,706,167; Mar. 19.
- Jackson, Joseph W., assignor to H. Perlmutter, Brooklyn, N. Y. Brake construction. 1,715,553; June 4.
- Jackson, Marshall H., Chicago, Ill. Book lock. 1,707,225; Apr. 2.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Starter for engines. 1,705,252; Mar. 12.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Starter for engines. 1,736,600; Nov. 19.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Starter for engines. 1,736,765; Nov. 19.
- Jackson, Merlin M., R. Walgren, and A. T. Britton; said Jackson assignor to F. Hamann and G. I. Lang, San Jose, Calif. Clothes washing and wringing machine. 1,730,770; Oct. 8.
- Jackson, Percy, Chicago, Ill. Pipe-closure-forming device. 1,705,864; Mar. 19.
- Jackson, Philip A., assignor to The Eery Register Company, Dayton, Ohio. Autographic register. 1,701,005; Feb. 5.
- Jackson, Ralph, Coventry, assignor to Alfred Herbert Limited, Butts, Coventry, England. Coal-pulverizing machine. 1,729,672; Oct. 1.
- Jackson, Ralph G., Woodbury, N. J. Decorated floor covering. 1,729,832; Oct. 1.
- Jackson, Ralph G., Woodbury, N. J. Floor covering. 1,729,833; Oct. 1.
- Jackson, Ralph G., Woodbury, N. J. Floor covering and preparing the same. 1,729,834; Oct. 1.
- Jackson, Ralph G., Woodbury, N. J. Smooth-surface crepe floor covering. 1,729,835; Oct. 1.
- Jackson, Ralph M., La Habra, Calif., assignor of one-half to California Cyanide Company. Pest control. 1,715,925; June 4.
- Jackson, Ray P., Berkeley, Calif., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic device. 1,731,420; Oct. 15.
- Jackson, Raymond B., Los Angeles, Calif. Airplane. 1,731,666; Oct. 15.
- Jackson, Reuben C., Kansas City, Mo. Corn and callous remover. 1,714,371; May 21.
- Jackson, Richard A. (See Freivogel, Ernest, assignor.)
- Jackson, Robert L., assignor to P. Gango, Clarksburg, W. Va. Power-driven brush for meat blocks. 1,702,007; Feb. 12.
- Jackson, S. W., et al. (See Morton, Frank M., assignor.)
- Jackson, Thomas F., Winnipeg, Manitoba, Canada, assignor to The Superheater Company, New York, N. Y. Locomotive tender with oil separator. 1,705,254; Mar. 12.
- Jackson, William C., Temple, Tex. Student's chair. 1,706,233; Mar. 19.
- Jackson, William E., Amarillo, Tex. Electric lantern. 1,737,968; Dec. 3.
- Jackson, William P., Chico, Calif. Canine operating table. 1,704,045; Mar. 5.
- Jackson, William R., Hollywood, Calif. Glare shield. 1,710,645; Apr. 23.
- Jacob, Alfred P., New York, N. Y. Measuring instrument. 1,703,736; Feb. 26.
- Jacob, Ernst, Dusseldorf, Germany. Removing the sprues from cutting tools and similar objects. 1,721,303; July 16.
- Jacob, Heinrich, Berlin-Friedenau, Germany. Computing weighing scale. 1,721,398; July 16.



- Jacob, Thomas H., Wausau, Wis. Attachment for tractors. 1,732,754; Oct. 22.
- Jacobi, Charles V. (See Shelton, I. J., and Jacobi.)
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock for automotive vehicles. 1,696,957; Jan. 1.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Padlock. 1,703,193; Feb. 26.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,714,372; May 21.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,714,423; May 21.
- Jacobi, Edward N., assignor to Briggs & Stratton Corp., Milwaukee, Wis. Lock. 1,714,424; May 21.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Switch construction. 1,724,024; Aug. 13.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,724,025; Aug. 13.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,734,333; Nov. 5.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lock. 1,738,105; Dec. 3.
- Jacobi, Emil R. (See Le Jeune, F. H., and Jacobi.)
- Jacobi, Emil R., and F. H. Le Jeune, Jackson, assignors, by mesne assignments, to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Rim-contracting tool. 1,708,445; Apr. 9.
- Jacobi, Max. (See Weber, W., and Jacobi.)
- Jacobs, Aaron J., Brooklyn, N. Y. Height-measuring device. 1,713,180; May 14.
- Jacobs, Aaron J., assignor to The Jacobs Bros. Co., Inc., Brooklyn, N. Y. Pan support. 1,737,153; Nov. 26.
- Jacobs, Aaron J., assignor to The Jacobs Brothers Co., Inc., Brooklyn, N. Y. Scoop. 1,711,566; May 7.
- Jacobs, Albert C., New Orleans, La. Fiber furniture. 1,721,999; July 23.
- Jacobs, Alfred M., New York, N. Y. Bumper. 1,727,982; Sept. 10.
- Jacobs Bros. Co., The. (See Hallwood, Nathan A., assignor.)
- Jacobs Brothers Co., The. (See Jacobs, Aaron J., assignor.)
- Jacobs, Charles, Coney Island, N. Y. Amusement boat. Des. 77,360; Jan. 1.
- Jacobs, Charles E. (See Sévigné, H. A., and Jacobs.)
- Jacobs, Charles F., Brooklyn, N. Y. Clamping terminal. 1,724,763; Aug. 13.
- Jacobs, Charles F., Valparaiso, Ind. Safety belt. 1,721,516; July 23.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Co., Chicago, Ill. Insulator fitting. 1,705,253; Mar. 12.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Co., Chicago, Ill. Switch. 1,707,479; Apr. 2.
- Jacobs, Ernest H., Chicago, Ill., assignor, to Electrical Engineers Equipment Company. Switch. 1,711,501; May 7.
- Jacobs, Fred, Spokane, Wash. Support. 1,730,732; Oct. 8.
- Jacobs, Henry I., assignor of forty-nine per cent to W. C. Dawes, Bozeman, Mont. Delivery vehicle. 1,711,202; Apr. 30.
- Jacobs, Joseph A., Providence, R. I. Bumper. 1,705,119; Mar. 12.
- Jacobs, Joseph H., Rochester, N. Y. Combined micrometer caliper and depth gauge. 1,737,764; Dec. 3.
- Jacobs, Joseph H., Rochester, N. Y. Curling-iron attachment. 1,737,765; Dec. 3.
- Jacobs, Karl W. J. H., Hamburg, Germany. Low-temperature distillation of carbonizable materials. 1,721,997; July 23.
- Jacobs, Olaus B., and V. O. Jacobs, Chicago, Ill. Airplane. 1,730,851; Oct. 8.
- Jacobs, Reed, Grætinger, Iowa. Attachment for cream separators. 1,742,078; Dec. 31.
- Jacobs, Viding O. (See Jacobs, Olaus B. and V. O.)
- Jacobs, Werner, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Variable-speed gear. 1,724,202; Aug. 13.
- Jacobs, Werner, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Variable-speed gear. 1,741,631; Dec. 31.
- Jacobsen, Arthur J., assignor, by mesne assignments, to Monaghan Manufacturing Corporation, Chicago, Ill. Excavating-bucket-forming machine. 1,710,985; Apr. 30.
- Jacobsen, Carl B., Chiloquin, Oreg. Automatic transmission for motor vehicles. 1,721,219; July 16.
- Jacobsen, Christian M., Newcastle, Ind. Signal casing. 1,730,975; Oct. 8.
- Jacobsen, Emil, Plandome, N. Y., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. Re17,526; Dec. 17.
- Jacobsen, Emil, Port Washington, N. Y., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,735,575; Nov. 12.
- Jacobsen, Jens N., Alameda, Calif., assignor to The Pfaudler Company, Rochester, N. Y. Heat-transfer apparatus. 1,737,849; Dec. 3.
- Jacobsen, Oystein, Dayton, Ohio, assignor to The Durlon Company, Inc. Centrifugal pump. 1,707,664; Apr. 2.
- Jacobsohn, Isadore M., Chicago, Ill. and S. Truscott, Birmingham, Ohio. Aircraft covering. 1,706,294; Mar. 19.
- Jacobsohn, Isadore M., Chicago, Ill. and S. Truscott, Birmingham, Ohio. Gas-retaining fabric. 1,706,295; Mar. 19.
- Jacobson, Alvin E. (See Johnson, Paul A., assignor.)
- Jacobson, Arthur, and A. L. Ogilvie, San Francisco, Calif. Flushing valve. 1,706,404; Mar. 26.
- Jacobson, Benno Y., New York, N. Y. Drinking flask. Des. 80,125; Dec. 17.
- Jacobson, Bert, et al. (See Gillespie, Robert J., assignor.)
- Jacobson, Bror J., and L. C. Martin, assignors to Martin-Copeland Company, Providence, R. I. Vernier radio-dial. 1,739,310; Dec. 10.
- Jacobson, David L. (See Hill, W. H., and Jacobson.)
- Jacobson, David L., Pittsburgh, Pa., assignor to The Koppers Company. Gas purification. 1,741,113; Dec. 24.
- Jacobson, David L., Pittsburgh, Pa., assignor to The Koppers Company. Producing oxides of nitrogen from ammoniacal liquor. 1,713,045; May 14.
- Jacobson, David L., Pittsburgh, Pa., assignor to The Koppers Company. Gas-purification process. 1,719,180; July 2.
- Jacobson, Elber C., Roy, assignor of one-fourth to A. A. Henn and one-fourth to L. Reichman, Tacoma, Wash. Grapple for sunken ships. 1,721,859; July 23.
- Jacobson, Harry, Rockaway Park, N. Y. Tinsel reflector. 1,732,364; Oct. 22.
- Jacobson, Heinrich. (See Sabalitschka, T., and Jacobson.)
- Jacobson, Hugo W. (See Zimmermann, W. F., and Jacobson.)
- Jacobson, Hugo W., Arlington, N. J., assignor to Gould & Eberhardt, Newark, N. J. Spline-hobbing process. 1,709,020; Apr. 16.
- Jacobson, Jerome B., New York, N. Y. Game device. 1,703,240; Feb. 26.
- Jacobson, Ludwig G., assignor to The Dahlstrom Metallic Door Company, Jamestown, N. Y. Elevator-entrance inclosure. 1,741,940; Dec. 31.
- Jacobson, Ludwig G., assignor to The Dahlstrom Metallic Door Company, Jamestown, N. Y. Elevator-entrance toe guard. 1,741,941; Dec. 31.
- Jacobson Manufacturing Co. (See Bender, Martin, assignor.)
- Jacobson Manufacturing Company. (See Carlson, John A. E., assignor.)
- Jacobson, Max, et al. (See Schlossberg, M., and Paster-nack, assignors.)
- Jacobson, Moses, Bronx, N. Y., assignor of one-half to L. S. Aronson. Method of and apparatus for converging and diverging rays emitted from a source of radiant energy. 1,706,612; Mar. 26.
- Jacobson, Moses, New York, assignor of one-half to W. A. Schacht, Brooklyn, N. Y. Electrically controlling the speed and phase of distantly-situated machines and apparatus. 1,710,223; Apr. 23.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,704,388; Mar. 5.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Protection means for soot-blowing elements. 1,719,934; July 9.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Series boiler and operating the same. 1,725,920; Aug. 27.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Series boiler and operating the same. 1,725,921; Aug. 27.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economizer. 1,729,259; Sept. 24.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,729,260; Sept. 24.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Method and apparatus for applying a fluid to heat-transfer surfaces. 1,730,461; Oct. 8.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,739,760; Dec. 17.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler baffle. 1,739,969; Dec. 17.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Series boiler. 1,741,701; Dec. 31.
- Jacobus, David S., Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. High-pressure boiler. 1,718,048; June 18.
- Jacobus, David S., Montclair, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Air-cooled furnace wall. 1,720,958; July 16.
- Jacobus, David S., Montclair, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Furnace wall and baffle. 1,741,718; Dec. 31.
- Jacobus, David S., Montclair, and N. E. Lewis, Plainfield, N. J., assignors, by mesne assignments, to Fuller Lehigh Company. Furnace. 1,719,475; July 2.
- Jacobus, Jesse L., Newark, N. J. Radiator vent valve. 1,703,673; Feb. 26.
- Jacoby, Areli H. (See Chapin, E. S., and Jacoby.)
- Jacoby, Benjamin, D. J. Shelton, B. S. Ferguson, and F. Jennings, assignors to The Marion Steam Shovel Company, Marion, Ohio. Steering mechanism for crawling traction devices. 1,701,006; Feb. 5.



- Jacoby, Richard, Berlin, Germany, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Manufacture of drawn tungsten wires. 1,723,862; Aug. 6.
- Jacoby, Richard, and F. Koref, Berlin, Germany, assignors to General Electric Company. Making metal filaments. 1,733,234; Dec. 10.
- Jacocks, George T., assignor to The Whitlock Coil Pipe Company, West Hartford, Conn. Storage heater. 1,704,088; Mar. 5.
- Jacopi, Leo. (See Gida C., and Jacopi.)
- Jacot, Charles A., La Chaux-de-Fonds, Switzerland. Automatic gas-tap control. 1,739,595; Dec. 17.
- Jacot-Descombes, Léon, Tavannes, Switzerland. Rotatable piston pump available for viscose. 1,736,497; Nov. 19.
- Jacot, Henry, Apple Creek, Ohio. Sanitary feed trough. 1,737,797; Dec. 3.
- Jacques, George W. (See Evans, H. A., and Jacques.)
- Jacques, George W., New Bedford, assignor to Atlas Tack Corporation, Fairhaven, Mass. Belt tightener. 1,732,604; Oct. 22.
- Jacques, George W., New Bedford, assignor to Atlas Tack Corporation, Fairhaven, Mass. Tape-applying fastener-setting machine. 1,700,165; Jan. 29.
- Jacques, Isaac, Eureka, Calif. Hand ice pick. 1,699,970; Jan. 22.
- Jacques, Joseph C., Buffalo, N. Y. Stair tread and holder. 1,738,775; Dec. 10.
- Jacques, René L., Laurent de la Ville le Roulex. (See Conti, James T. F., assignor.)
- Jacques, Stanley A., Chicago, Ill., assignor to International Combustion Engineering Corporation. Burner. 1,708,506; Apr. 9.
- Jaden, Fred I., Hastings, Nebr. Oil can. 1,698,632; Jan. 8.
- Jaden, Fred I., Hastings, Nebr. Tire-pump-connecting device. 1,702,970; Feb. 19.
- Jaden, Fred I., Hastings, Nebr. Lawn sprinkler. 1,704,610; Mar. 5.
- Jaden, Fred I., Hastings, Nebr. Oil can. 1,707,084; Mar. 26.
- Jaden, Fred I., Hastings, Nebr. Oil can. 1,724,839; Aug. 13.
- Jaacks, Albert, Seale, Tex. Cotton-spraying machine. 1,733,883; Oct. 29.
- Jaedike, Henry, Brooklyn, N. Y. Piston ring. 1,739,361; Dec. 10.
- Jaeger, Albert. (See Rosenberg, P., and Jaeger.)
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of organic compounds. 1,709,853; Apr. 23.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Production of monocarboxylic acid and its derivatives. 1,714,956; May 28.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of organic compounds. 1,722,297; July 30.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Purification of crude aromatic hydrocarbons. 1,729,543; Sept. 24.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of organic compounds. 1,735,763; Nov. 12.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Producing reduction products of carbon dioxide. 1,735,925; Nov. 19.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Reducing products of carbon monoxide. 1,741,306; Dec. 31.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Reducing products of carbon monoxide. 1,741,307; Dec. 31.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Reducing products of carbon monoxide. 1,741,308; Dec. 31.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic apparatus. 1,741,309; Dec. 31.
- Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Contact sulphuric acid process. 1,741,310; Dec. 31.
- Jaeger, Alphons O., assignor to The Selden Company, Pittsburgh, Pa. Base exchange body. 1,728,732; Sept. 17.
- Jaeger, Alphons O., St. Louis, Mo., assignor to The Selden Company, Pittsburgh, Pa. Purification of aromatic hydrocarbons. 1,741,305; Dec. 31.
- Jaeger, Alphons O., and J. O. Bertsch, St. Louis, Mo.; said Jaeger assignor to The Selden Company, Pittsburgh, Pa. Zeolite. 1,701,075; Feb. 5.
- Jaeger, Alphons O., and F. A. Canon, Crafton, assignors to The Selden Company, Pittsburgh, Pa. Purifying phthalic anhydride. 1,702,871; Feb. 19.
- Jaeger, Charles P., Chicago, Ill. Cooking apparatus. 1,704,477; Mar. 5.
- Jaeger, Charles P., Chicago, Ill. Toasting device. 1,706,611; Mar. 26.
- Jaeger, Frank J., Toledo, Ohio. Aircraft. 1,709,220; Apr. 16.
- Jaeger, G. & J., Aktiengesellschaft. (See Schulz, Hans, assignor.)
- Jaeger, G. & J., Aktiengesellschaft. (See Wetzel, Carl, assignor.)
- Jaeger, Gebhard, Columbus, Ohio. Loader-controlling means for concrete mixers. 1,708,096; Apr. 9.
- Jaeger, Gebhard, Columbus, Ohio. Plaster mixer. 1,708,947; Apr. 16.
- Jaeger, Gebhard, Columbus, Ohio. Watertank for concrete mixers. 1,710,876; Apr. 30.
- Jaeger, Gebhard, Columbus, Ohio. Body-leveling device. 1,713,532; May 21.
- Jaeger, Gebhard, assignor to The Jaeger Machine Company, Columbus, Ohio. Signal for concrete mixers. 1,714,475; May 21.
- Jaeger, Gebhard, assignor to The Jaeger Machine Company, Columbus, Ohio. Loader agitator for concrete-mixing machines. 1,714,601; May 28.
- Jaeger, Gebhard, and J. Eggert, assignors to The Jaeger Machine Company, Columbus, Ohio. Drum for concrete-mixing machines. 1,714,602; May 28.
- Jaeger Machine Company, The. (See Eggert, Joseph, assignor.)
- Jaeger Machine Company, The. (See Jaeger, Gebhard, assignor.)
- Jaeger Machine Company, The. (See Jaeger, G., and Eggert, assignors.)
- Jaeger Machine Company, The. (See Mosel, Joseph H., assignor.)
- Jaeger, Max, Wesselburen, Germany, assignor to H. O. S. Krüger. Method of and apparatus for digging up ground from below the surface. 1,701,678; Feb. 12.
- Jaeger, Max, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Glass-pressing machine. 1,712,499; May 14.
- Jaeger, Max, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Glass pressing and blowing machine. 1,724,483; Aug. 13.
- Jaeger, Max, Wesselburen, Germany, assignor to H. Krueger, Washington, D. C. Apparatus for digging up and conveying ground from below the surface. 1,740,922; Dec. 24.
- Jaeger, Max, Wesselburen, Germany, assignor to H. Krueger, Washington, D. C. Machine for digging up ground from below the surface. 1,740,923; Dec. 24.
- Jaeger, Max, W. Moschel, and R. Suchy, Bitterfeld, assignors to the firm of I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Producing metal chlorides free from water and oxides. 1,702,301; Feb. 19.
- Jaeger, Otto. (See Mooney, D. A., and Jaeger.)
- Jaeger, Otto. (See Wright, W., and Jaeger.)
- Jaeger, Ralph, Tacoma, Wash. Positive-feed pressure eliminator for sawdust burners. 1,732,442; Oct. 22.
- Jaeger, William, Philadelphia, Pa. Lamp-shade adapter. 1,724,091; Aug. 13.
- Jaenichen, Louis, Springfield Township, Oakland County, assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. 1,723,354; Aug. 6.
- Jaffe, Elias, New York, N. Y. Button-attaching means. 1,703,886; Mar. 5.
- Jaffe, Isadore, Cleveland, Ohio. Heel and toe plate. 1,725,456; Aug. 20.
- Jaffe, John, Brooklyn, N. Y. Motor. 1,704,254; Mar. 5.
- Jagel, Arthur G. (See Solenberger, D. M., and Jagel.)
- Jagenberg, Emil, Dusseldorf, Germany. Roll cutting and winding machine. 1,741,520; Dec. 31.
- Jagenburg, Eugene R., assignor to Crown Fruit & Extract Co., New York, N. Y. Fruit-cutting machine. 1,729,269; Sept. 24.
- Jager, Bertram M., Liverpool, England. Apparatus for supplying measured quantities of liquids or semiliquids. 1,720,476; July 9.
- Jäger, Emil, Neustadt-on-the-Orla, Germany. Wire-weaving loom. 1,728,347; Sept. 17.
- Jagschitz, Konrad, Mainz, Germany. Disk gas holder. 1,722,093; July 23.
- Jagschitz, Konrad, Gustavsburg, near Mainz, Germany, and F. M. Kuehn, Baltimore, Md. Gas reservoir. 1,715,367; June 4.
- Jahn, B., Manufacturing Company, The. (See Jahn, B., and Kahl, assignors.)
- Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Dispenser for paper drinking cups. 1,733,124; Oct. 29.
- Jahn, Frederick L., Stonehurst, assignor to Watson & McDaniel Co., Philadelphia, Pa. Steam trap. 1,739,311; Dec. 10.
- Jähne, Ernst H., Dresden, Germany. Removing sheets from piles. 1,724,657; Aug. 13.
- Jahnig, Charles F., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Coil-winding machine. 1,702,475; Feb. 19.
- Jahnke, Charles P., Minneapolis, Minn. Feeding apparatus for ironing machines. 1,703,586; Feb. 26.
- Jahr, M. Rudolf, Maschinenfabrik. (See Schnitzler, August, assignor.)
- Jahr, Rudolf, Freiburg, Germany. Optical instrument for the examination of spaces which are accessible only through narrow entrances. 1,726,268; Aug. 27.
- Jahrstorfer, Michael. (See Pungs, W., and Jahrstorfer.)
- Jakku, Armas E., Hood River, Oreg. Device for picking fruit. 1,703,450; Feb. 26.
- Jakob, Victor, Racine, Wis. Speed regulator for phonographs. 1,737,244; Nov. 26.
- Jakob, Victor, assignor to Walker Manufacturing Company, Racine, Wis. Hydraulic lifting jack. 1,734,582; Nov. 5.
- Jakopec, George. (See Begich, R., and Jakopec.)
- Jakopec, George, and V. Schwarz, Chicago, Ill. Door lock. 1,702,211; Feb. 12.



- Jakosky, John J., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for sound reproduction. 1,705,017; Mar. 12.
- Jakubowski, Leon J., Norwich, Conn. Hot-dish-removing device. 1,739,033; Dec. 10.
- Jalenak, Sidney et al. (See Dudenhofen, Jacob, assignor.)
- Jamar, Walker, Duluth, Minn. Damper lock. 1,716,444; June 11.
- James, Archimedes J., et al. (See Dwyer, Thomas A. W., assignor.)
- James, Charles F., Taplin, W. Va. Single-pole double-transfer switch. 1,717,383; June 18.
- James, Edna L., Oakland, Calif. Hair curler. 1,710,216; Apr. 23.
- James, Edward L., East Cleveland, Ohio. Automotive control attachment. 1,724,596; Aug. 13.
- James, Floyd D., San Antonio, Tex. Combined roller skate and scooter. 1,723,063; Sept. 10.
- James, George S., Westcliff-on-Sea, assignor of one-half to H. H. Lloyd, London, England. Cinematographic apparatus. 1,706,296; Mar. 19.
- James, Henry D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetically-operated device. 1,719,115; July 2.
- James, Henry D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. 1,729,875; Oct. 1.
- James, Henry D., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Series motor-control system. 1,724,404; Aug. 13.
- James, Henry D., Edgewood, and C. H. Hodgkins, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor-starting switch. 1,709,725; Apr. 16.
- James, Henry D., Edgewood Park, and H. C. Nagel, Wilkensburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of control. 1,729,874; Oct. 1.
- James, Henry D., Swissvale, and C. H. Hodgkins, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control apparatus. 1,729,876; Oct. 1.
- James, Joseph C., Antioch, Ill. Bait bag. 1,725,864; Aug. 27.
- James, Joseph H., Pittsburgh, Pa. Dibasic acid salts and making same. 1,721,958; July 23.
- James, Joseph H., Pittsburgh, Pa. Treating partial oxidation products. 1,721,959; July 23.
- James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Intermediate partial oxidation product and making same. 1,697,653; Jan. 1.
- James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Lubricant and making the same. 1,700,055; Jan. 22.
- James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Grease and preparing the same. 1,700,056; Jan. 22.
- James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Composition of matter and making the same. 1,716,272; June 4.
- James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Xanthate mixture. 1,716,273; June 4.
- James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Odorized gas production. 1,732,516; Oct. 22.
- James, Kenneth A., Montfort, Wis. Key tag and advertising device. 1,718,236; June 25.
- James Manufacturing Company. (See Markey, George T., assignor.)
- James Manufacturing Company. (See Markey, G. T., and Olson, assignors.)
- James Manufacturing Company. (See Olson, John B., assignor.)
- James, Parker H., and H. C. Woodsmall, assignors to Ribbon-Miter Machine Company, Indianapolis, Ind. Cutting designs on glass. 1,727,318; Sept. 3.
- James, Roy W., Covina, Calif. Aircraft. 1,727,033; Sept. 3.
- James, Roy W., Covina, assignor of forty-nine one-hundredths to M. Haydis, Los Angeles, Calif. Acoustic-control wall. 1,738,654; Dec. 10.
- James, Sidney C., administrator. (See James, Sidney V.)
- James, Sidney V., deceased, Niagara Falls, by S. C. James, administrator, Buffalo, N. Y., assignor to Wm. A. Rogers, Limited, Toronto, Canada. Spoon or similar article. Des. 77,361; Jan. 1.
- James, Thomas J., Buckner, assignor of one-half to E. W. Higgins, Crewe, Va. Clothesline. 1,719,268; July 2.
- James, Walter I. (See Sheperd, G. and James.)
- James, Willard C., Los Angeles, Calif. Seating table. 1,697,428; Jan. 1.
- James, William B., et al. (See Dean, Vernon M., assignor.)
- James, William S. (See Stratford, Charles W., and James.)
- James, William S., assignor to The Studebaker Corporation, South Bend, Ind. Elastic-connection regulator. 1,697,065; Jan. 1.
- James, William S., assignor to The Studebaker Corporation, South Bend, Ind. Spring shackle. 1,697,066; Jan. 1.
- James, William T., Chicago, Ill. Tractor. 1,715,503; June 4.
- Jamestown Metal Desk Company. (See Jones, Emil J., assignor.)
- Jamestown Metal Equipment Co. (See Card, E. J., and Gronberg, assignors.)
- Jamieson, Anna L., Ottawa, Ontario, Canada. Headlight. 1,727,830; Sept. 10.
- Jamieson, Charles M., assignor, by mesne assignments, to Brodrex Company, Winter Haven, Fla. Apparatus for coating articles. 1,738,431; Dec. 3.
- Jamieson, George G. (See Rodin, C. F., and Jamieson.)
- Jamison, Edgar M., et al. (See Eberly, Sylvester, assignor.)
- Jamison, Thomas E., C. C. Pollard, and J. C. Farmer, Coleman, Tex. Clamp. 1,728,125; Sept. 10.
- Jamison, Thomas J., Homestead, Pa. Open-hearth furnace. 1,717,107; June 11.
- Jamison, (Mrs.) W. K., et al. trustees. (See Mathewson, S. B., and Jamison, assignors.)
- Jamison, Walter K. (See Mathewson, S. B., and Jamison.)
- Jamison, Walter K., et al. (See Mathewson, S. B., and Jamison, assignors.)
- Jammer, Emil, Berlin, Germany. Name plate with interchangeable characters. 1,722,248; July 23.
- Jammer, Jacob S., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiplex signaling system. 1,709,076; Apr. 16.
- Jammer, Jacob S., Sydney, New South Wales, Australia, assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave transmission. 1,724,938; Aug. 20.
- Jamouneau, Leslie H., Newark, N. J. Washing machine. 1,715,036; May 28.
- Janacek, Henry A., La Grange, Tex. Automatic safety device for speedy and racing boats. 1,710,217; Apr. 23.
- Janca, Joseph J., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Electric motor. 1,698,500; Jan. 8.
- Janca, Joseph J., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Bearing. 1,710,928; Apr. 30.
- Jancke, Benno F. (See Kelley, J. E., and Jancke.)
- Jancke, Benno F., Brooklyn, assignor to Townsend Manufacturing Company, Inc., New York, N. Y. Curler for permanent waving of hair. 1,717,691; June 18.
- Jancsy, Henry G., Everett, Mass. Cooling apparatus. 1,722,578; July 30.
- Janda, Joseph, Ridgewood, N. Y. Tool holder. 1,727,602; Sept. 10.
- Janda, Rudolph W. (See Anderson, C. F., and Janda.)
- Janda, Rudolph W., Berwyn, assignor to Conlon Corporation, Cicero, Ill. Clutch and driving means. 1,735,201; Nov. 12.
- Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 78,209; Apr. 9.
- Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 78,709; June 11.
- Jandus, Herbert S., Detroit, Mich., assignor, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,658; Oct. 22.
- Jandus, Herbert S., Detroit, Mich., assignor by mesne assignments to General Spring Bumper Corporation. Automobile bumper. Des. 79,817; Nov. 5.
- Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. 1,708,623; Apr. 9.
- Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper clamp. 1,713,385; May 14.
- Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,718,785; June 25.
- Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. 1,720,599; July 9.
- Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,721,220; July 16.
- Jandus, Herbert S., assignor to General Spring Bumper Corporation, Detroit, Mich. Bumper clamp. 1,734,488; Nov. 5.
- Jandus, Herbert S., Detroit, Mich., assignor, by mesne assignments, to General Spring Bumper Corporation. Bumper clamp. 1,735,901; Nov. 19.
- Jandus, Herbert S., Detroit, Mich., assignor, by mesne assignments, to General Spring Bumper Corporation. Clamp. 1,735,926; Nov. 19.
- Jandus, Herbert S., Detroit, Mich., assignor, by mesne assignments, to General Spring Bumper Corporation. Resilient clamp. 1,739,236; Dec. 10.
- Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. Re17,226; Mar. 5.
- Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. Re17,227; Mar. 5.
- Jandus, Herbert S., and E. R. Keelor, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 77,553; Jan. 22.
- Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 77,837; Feb. 26.
- Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 78,520; May 14.
- Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 78,708; June 11.



- Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 78,627; May 28.
- Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Impact section for a vehicle. Des. 78,693; June 4.
- Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. Des. 78,762; June 18.
- Jandus, Herbert S., and J. R. Morgan, Detroit, Mich. Impact section for a vehicle bumper. Des. 78,763; June 18.
- Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 78,764; June 18.
- Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 78,888; July 2.
- Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 79,234; Aug. 20.
- Jandus, Herbert S., and J. R. Morgan, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 79,519; Oct. 1.
- Jandus, Herbert S., and N. Van Husen, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,659; Oct. 22.
- Jandus, Herbert S., and N. Van Husen, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,660; Oct. 22.
- Jandus, Herbert S., and R. A. Flum, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,661; Oct. 22.
- Jandus, Herbert S., and E. R. Keelor, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,662; Oct. 22.
- Jandus, Herbert S., and N. Van Husen, assignor, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,719; Oct. 29.
- Jandus, Herbert S., and C. E. Rasmussen, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,818; Nov. 5.
- Jandus, Herbert S., and C. E. Rasmussen, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Vehicle bumper. Des. 79,819; Nov. 5.
- Jandus, Herbert S., and E. R. Keelor, assignors to General Spring Bumper Corporation, Detroit, Mich. Clamp plate for vehicle bumper. Des. 79,886; Nov. 12.
- Jandus, Herbert S., and J. R. Morgan, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Clamp plate. Des. 80,176; Dec. 24.
- Jandus, Herbert S., and R. A. Flum, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,713,384; May 14.
- Jandus, Herbert S., and F. H. Goodrich, Detroit, Mich., assignors, by mesne assignments, to General Spring Bumper Corporation. Bumper. 1,739,235; Dec. 10.
- Janer, Andre, Flushing, N. Y. Keyless lock. 1,707,523; Apr. 2.
- Janer, Andre, Flushing, N. Y. Circuit closer. 1,724,597; Aug. 13.
- Janes, John C., Alhambra, assignor to The T. V. Allen Company, Los Angeles, Calif. Making steel etching plates. 1,705,155; Mar. 12.
- Janes, Ralph E. (See Morris, Dwight, assignor.)
- Janette, John T., Chicago, Ill. Fuel-burning system. 1,715,839; June 4.
- Janette, John T., Chicago, Ill. Bearing. 1,715,840; June 4.
- Janicke, Horace W., Berkeley, Calif. Camping outfit for automobilists. 1,712,213; May 7.
- Janin, Joseph E., New Orleans, La. Base plate for cutting machines. 1,730,509; Oct. 8.
- Janisch, Max P., assignor to The Gem Hammock & Fly Net Company, Milwaukee, Wis. Mop. 1,730,369; Oct. 8.
- Janisch, Maximilian P. (See Wenzel, E. H., and Janisch.)
- Janke, Erthold C., assignor to Jayem Manufacturing Company, Milwaukee, Wis. Garment. 1,716,061; June 4.
- Jankowski, Stanley. (See Nyeznick, V., and Jankowski.)
- Jannenga, Roy L., and R. C. Lemmerhart, East Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Making tracings. 1,736,445; Nov. 19.
- Jannesson, Elizabeth, Chicago, Ill. Number-learning device. 1,728,491; Sept. 17.
- Janoir, Louis, St.-Ouen, France. Latch. 1,718,650; June 25.
- Janowitch, Joseph H., New York, N. Y. Shirt-collar stiffener. 1,741,311; Dec. 31.
- Janschke, Frederick E., Hatboro, Pa. Stocking. Des. 77,962; Mar. 12.
- Janschke, Frederick E., Hatboro, Pa. Stocking. Des. 78,102; Mar. 26.
- Janschke, Frederick E., Hatboro, Pa. Stocking. Des. 78,354; Apr. 23.
- Jansen, Christian H. (See Taylor, Leroy B., assignor.)
- Jansen, Niels B., Kansas City, Mo. Preparation for treating the skin. 1,730,428; Oct. 8.
- Jansen, Theodor. (See Katzenberger, B., and Jansen.)
- Janson, George W., Nutley, assignor to The Western Union Telegraph Company, New York, N. Y. Trouble detector for messenger call circuits. 1,698,305; Jan. 8.
- Janson, George W., Nutley, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Messenger call box. 1,704,389; Mar. 5.
- Janssen, Carl. (See Immand, G., and Janssen.)
- Janssen, Hendrik J. J., assignor to Naamlooze Vennootschap Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Manufacturing dyed artificial silk. 1,739,475; Dec. 10.
- Janssen, John H., New Orleans, La. Clock dial. Des. 78,396; Apr. 30.
- Janssen, Oscar, St. Louis, Mo. Transmission. 1,736,789; Nov. 26.
- Janssen, Webster E., New York, N. Y. Combined player piano and writing desk. Des. 77,554; Jan. 22.
- Jansson, Axel J., Hillside, N. J., assignor to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,697,871; Jan. 8.
- Jansson, Axel J., Hillside, N. J., assignor, by mesne assignments, to International Motor Company, New York, N. Y. Cushion connection for vehicle construction. 1,704,834; Mar. 12.
- Jansson, Axel J., Hillside, N. J., assignor to International Motor Company, New York, N. Y. Brake mechanism. 1,728,935; Sept. 24.
- Jansson, Bennett G., Saugus, Mass. Safety razor. 1,711,413; Apr. 30.
- Jansson, Gustav E., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Oil-filled insulating bushing. 1,697,832; Jan. 1.
- Jansson, Gustav E., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Section-connecting switch. 1,725,933; Aug. 27.
- Jantz, Rudolph, Boise, Idaho. Loading device. 1,707,725; Apr. 2.
- Jantzen, Fred, Bronx, N. Y. Towel stand. 1,697,654; Jan. 1.
- Jaques, Fernando O., Jr., Providence, R. I. Dual tooth crown. 1,734,676; Nov. 5.
- Jaques, Fernando O., Jr., Providence, R. I. Bifurcated tooth crown. 1,713,437; May 14.
- Jaques, Mary E., Lincoln, Nebr. Knot fastener for shoe strings. 1,730,462; Oct. 8.
- Jaquith, Willard. (See Carpenter, C. L., and Jaquith.)
- Jaquith, Willard E. (See Carpenter, C. L., and Jaquith.)
- Jardh, Wilhelm, Los Angeles, Calif., assignor to Axelsson Machine Company. Geared headstock for lathes. 1,712,766; May 14.
- Jardine, Charles. (See Collins, W. A., and Jardine.)
- Jardine, Frank, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Piston. 1,727,647; Sept. 10.
- Jardine, Frank, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Piston. 1,730,120; Oct. 1.
- Jardine, Frank, Cleveland, Ohio, assignor, by mesne assignments, to Cleveland Trust Company, as trustee, Cleveland, Ohio. Piston. 1,741,843; Dec. 31.
- Jardine, Robert, Detroit, Mich., assignor to Rich Tool Company, Chicago, Ill. Valve. 1,726,353; Aug. 27.
- Jardine, Robert, Detroit, Mich., assignor to Rich Tool Company. Internal-combustion engine. 1,735,865; Nov. 19.
- Jaret, Joseph T., Brooklyn, N. Y. Desk lamp. Des. 79,139; Aug. 6.
- Jarosz, John, assignor of one-half to F. J. Bobola, Central Falls, R. I. Dough cutter. 1,720,839; July 16.
- Jarrett-Knott, Charles E. G. L., Paris, France. Mechanical vibrating rammage device. 1,708,839; Apr. 9.
- Jarvis, Charles H. (See Macomber, L. W., and Jarvis.)
- Jarvis, Charles W., Courtland, Calif. Asparagus wagon. 1,739,463; Dec. 10.
- Jarvis, Levi, Cedar Rapids, Nebr. Scythe blade. 1,727,648; Sept. 10.
- Jarvis, Lewis A., Grand Rapids, Mich. Water gauge. 1,712,794; May 14.
- Jarvis, W. B., Company. (See Jarvis, William B., assignor.)
- Jarvis, William B., Grand Rapids, Mich. Radiator cap. 1,712,795; May 14.
- Jarvis, William B., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Liquid-level indicator. 1,712,796; May 14.
- Jarzabkiewicz, Roman, Torun, and E. Wojdatt, Bedzin, Poland. Target-practice testing device. 1,730,370; Oct. 8.
- Jasbring, Erasmus, Collinsville, Ohio. Automatic gate. 1,725,354; Aug. 20.
- Jasper, Christian H., assignor to Naamlooze Vennootschap Electricitits-Maatschappij "Electrostoorn." Rotterdam, Netherlands. Process and device for joining, finishing, and final insulating wire terminals of electrical conductors. 1,700,985; Feb. 5.
- Jasper, Henry N., Jr. (See Knapp, Ralph T., assignor.)
- Jaspersen, Helgo W., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working fibrous material. 1,713,904; May 21.
- Jaspert, William B., Pittsburgh, Pa. Putting receptacle for golf games. 1,712,561; May 14.
- Jaspert, William B., Pittsburgh, Pa. Composite floor. 1,737,589; Dec. 3.



- Jatunn, Frank W., Troy, Mont. Aeroplane propeller. 1,699,699; Jan. 22.
- Jaubert, George F., assignor to Société Ammonia, Paris, France. Separating hydrogen from gaseous mixtures. 1,723,425; Aug. 6.
- Jauch, Robert J., assignor to Utility Strate Manufacturing Company, Fort Wayne, Ind. Screw jack. 1,723,970; Aug. 6.
- Jáuregui, Pedro, Paris, France. Surgical armchair. 1,721,221; July 16.
- Jauss, August C. (See Jones, W. W., and Jauss.)
- Jaussaud, Lazare S., Dijon, France. Internal-combustion engine. 1,715,368; June 4.
- Jaworowski, Joseph F., Cleveland, Ohio. Duplex rotary pump. 1,698,815; Jan. 15.
- Jaxheimer, William H., assignor to Smith, Drum & Company, Philadelphia, Pa. Locking device for washing-machine cylinders. 1,726,181; Aug. 27.
- Jay, Ralph H., assignor of one-half to F. J. Grayum, Eugene, Oreg. Spirit level. 1,703,006; Feb. 19.
- Jayem Manufacturing Company. (See Janke, Erthold C., assignor.)
- Jeanes, William P., and C. Drimmer, Philadelphia, Pa. Motion-picture machine. 1,738,999; Dec. 10.
- Jeanneret, Abram-Louis, fils, assignor to Comptoir General de Vente de la Montre Roskopf Societe Anonyme vve Chs. Leon Schmid & Cie., La Chaux-de-Fonds, Switzerland. Electrical clock. 1,728,338; Sept. 17.
- Jeavons, William R. (See Rentschler, Mahlon J., assignor.)
- Jedlicka, Frank B. (See Topinka, J. F., and Jedlicka.)
- Jeep, John, Watsonville, Calif. Nursing-bottle holder. 1,736,346; Nov. 19.
- Jefferies, Ernest S. (See Clouse, W. L., and Jefferies.)
- Jefferies, Clarence E., assignor to Martin-Parry Corporation, York, Pa. Vehicle door. 1,712,562; May 14.
- Jefferies, Clarence E., York, Pa., assignor, by mesne assignments, to Honda-Hershey Corporation. Self-lubricating fan. 1,731,463; Oct. 15.
- Jefferies, Clarence E., assignor to Martin-Parry Corporation, York, Pa. Automobile windshield hinge. 1,734,810; Nov. 5.
- Jefferson, Arthur, et al. (See Smith, Charles M., assignor.)
- Jefferson Electric Company. (See Butler, Reese C., assignor.)
- Jefferson Electric Company. (See Johnson, Chester A., assignor.)
- Jefferson Electric Company. (See Kellner, Louis, assignor.)
- Jefferson, Emery C., Kansas City, Mo. Pen or pencil holder. 1,697,956; Jan. 8.
- Jeffery-Dewitt Company. (See Johnston, Robert M., assignor.)
- Jeffery, Joseph A., and F. H. Riddle, assignors to Champion Porcelain Company, Detroit, Mich. Use of dumortierite. 1,723,174; Aug. 6.
- Jeffery, Robert, New York, N. Y. Trouble-light-mirror system. 1,723,863; Aug. 6.
- Jeffress, Anthony M., Conowingo, Md. Musical instrument. 1,731,103; Oct. 8.
- Jeffress, Wootton W., Dallas, Tex. Fabric or cloth unwinding or unrolling machine. 1,702,971; Feb. 19.
- Jeffrey Manufacturing Company, The. (See Coseo, Fred C., assignor.)
- Jeffrey Manufacturing Company, The. (See Dunlop, Robert R., assignor.)
- Jeffrey Manufacturing Company, The. (See Fisher, Dudley T., assignor.)
- Jeffrey Manufacturing Company, The. (See Hibbard, Merrill, assignor.)
- Jeffrey Manufacturing Company, The. (See Holmes, Morris P., assignor.)
- Jeffrey Manufacturing Company, The. (See Jeffrey, Robert K., assignor.)
- Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
- Jeffrey Manufacturing Company. (See Liggett, William K., assignor.)
- Jeffrey Manufacturing Company, The. (See Wood, Hugh N., assignor.)
- Jeffrey, Max L., and F. L. Snyder, assignor to The White Motor Company, Cleveland, Ohio. Apparatus for packing articles with material. 1,719,806; July 2.
- Jeffrey, Robert K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Conveying mechanism. 1,732,365; Oct. 22.
- Jeffrey, Walter H., Toledo, Ohio. Bottle closure. 1,700,227; Jan. 29.
- Jeffreys, George A., Calcium, N. Y. Tracheal-swab syringe. 1,711,352; Apr. 30.
- Jeffries, Carl F. (See Baer, C. J., and Jeffries.)
- Jeffries, Carl F., Nashville, Tenn., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle clutch and brake. 1,698,056; Jan. 8.
- Jeffries, Carl F., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Machining compression recesses in cylinder heads. 1,734,908; Nov. 5.
- Jeffries, John H. (See Doherty, E. M., and Jeffries.)
- Jeffries, John H., and E. M. Doherty, Los Angeles, Calif. Pump plunger. 1,717,508; June 13.
- Jeffries, Schuyler A., assignor to Reo Motor Car Company, Lansing, Mich. Transmission. 1,725,142; Aug. 20.
- Jeffries, Zay, and R. S. Archer, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Piston and making the same. 1,732,557; Oct. 22.
- Jefts, Frank M., Scotia, N. Y., assignor to General Electric Company. Arc welding. 1,701,372; Feb. 5.
- Jelen, Matt J., assignor to Stewart-Warner Corporation, Chicago, Ill. Radioreceiver. 1,722,631; July 30.
- Jelke, John F., Company. (See Steele, W. M., and Allen, assignors.)
- Jelks, Edwin B., and J. W. Harner, Quitman, Ga. Dispensing cabinet. 1,706,298; Mar. 19.
- Jelks, James W., Miami, Fla. Screen for automobiles. 1,739,395; Dec. 10.
- Jelliffe, Howard W., Cleveland, Ohio. Electrical heater for engine-jacket systems. 1,729,270; Sept. 24.
- Jellinek, Paul, and F. Beer, Vienna, Austria. Apparatus for calculating and measuring purposes. 1,737,659; Dec. 3.
- Jelly, Casper. (See Frebord, C., and Jelly.)
- Jemisson, John W., assignor to Karrier Motors, Limited, Huddersfield, England. Brush for road-sweeping machines. 1,718,151; June 18.
- Jencick, Stephen, Chagrin Falls, Ohio. Engine starter. 1,710,986; Apr. 30.
- Jenckes, Frederick L. (See Miller, M. C., and Jenckes.)
- Jenckes, George W., Lakewood, assignor to D. M. Watkins Co., Inc., Providence, R. I. Safety catch for pin stems. 1,726,704; Sept. 3.
- Jenckes, George W., Lakewood, assignor to D. M. Watkins Co., Inc., Providence, R. I. Connector for necklaces and the like. 1,738,371; Dec. 3.
- Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)
- Jencks, Hollis W., Highland Park, Mich., assignor to Truscon Steel Company, Youngstown, Ohio. Loading platform. 1,741,189; Dec. 31.
- Jenkins, Alexandra C., Chicago, Ill. Marking device. 1,732,017; Oct. 15.
- Jenkins, Charles F., Washington, D. C. Radio movie receiver. 1,697,527; Jan. 1.
- Jenkins, Charles F., Washington, D. C. Airplane-launching gear. 1,706,065; Mar. 19.
- Jenkins, Charles F., Washington, D. C. Ground-speed meter. 1,711,318; Apr. 30.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Synchronism in radio movies. Re-17,221; Feb. 19.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Oscillator cell circuit. 1,704,360; Mar. 5.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Helical drum scanner. 1,730,976; Oct. 8.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Spot illumination of lens cells. 1,739,312; Dec. 10.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Light-valve transmitter. 1,740,352; Dec. 17.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Weather-map pen box. 1,740,353; Dec. 17.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Split switching gear. 1,740,354; Dec. 17.
- Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Contact scanning disk. 1,740,654; Dec. 24.
- Jenkins, D. C., Glass Company. (See Arduser, Joseph O., assignor.)
- Jenkins, Earl W. (See Townsend, George F., assignor.)
- Jenkins, Frederick, Cincinnati, Ohio. Holder for polishing devices. 1,725,002; Aug. 20.
- Jenkins, Hallet M., Kalama, Wash. Tree-skinning knife. 1,703,305; Feb. 26.
- Jenkins, Harold C. (See Nyborg, T. G., and Jenkins.)
- Jenkins, John E. (See Davis, Paul H., assignor.)
- Jenkins, John H., Altus, assignor of one-sixth to R. Bond, J. F. Hatcher, and R. Bond, jr., Chickasha, Okla. Gin brush. 1,709,021; Apr. 16.
- Jenkins, June Y., Venice, Calif. Statuette. Des. 77,838; Feb. 26.
- Jenkins Laboratories. (See Jenkins, Charles F., assignor.)
- Jenkins, Ralph W., Daleville, Ind. Sash-retainer case-ment. 1,702,734; Feb. 19.
- Jenkins, Ralph W., Daleville, Ind. Vehicle body construction. 1,712,271; May 7.
- Jenkins, Stanley S., Buffalo, N. Y. Combined dipping, cooking, and article-holding apparatus. 1,706,491; Mar. 26.
- Jenkins, Stanley S., Buffalo, assignor to Livezey Surgical Service, Inc., Newark, N. J. Manufacturing stretchers and the like. 1,715,707; June 4.
- Jenkinson, Ross E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-building machine. 1,705,219; Mar. 12.
- Jenks, Frank D. (See Webb, G., and Jenks.)
- Jenks, Harold C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,699,790; Jan. 22.
- Jenks, William H., Winchester, assignor to L. C. Chase & Company, Boston, Mass. Footwear and artificial-leather upper material therefor. 1,707,480; Apr. 2.



- Jenne, Jacob, assignor to The Cleveland Planer Company, Cleveland, Ohio. Safety attachment for planers. 1,713,873; May 21.
- Jennejohn, John C., assignor to Utility Manufacturing Co., Cudahy, Wis. Flipper for straight-side beads. Re17,199; Jan. 22.
- Jenner, Alfred L. and C. E., Mitchen, England. Apparatus for marking garments for laundry and like purposes. 1,715,556; June 4.
- Jenner, Charles H. (See Jenner, Alfred L. and C. E.)
- Jenner, Ralph L. (See Woodruff, W. W., Jenner, and Reeves.)
- Jennings, Aaron E., Central City, Ky. Automobile tire. Des. 79,820; Nov. 5.
- Jennings, Charles A. (See Roy, L., Jennings, and Lizzy-ness.)
- Jennings, Floyd E., et al. (See Johnson, Charles D., assignor.)
- Jennings, Francis. (See Jacoby, B., Shelton, Ferguson, and Jennings.)
- Jennings, Frank B., Dayton, Ohio. Individual pipe tray. Des. 79,720; Oct. 29.
- Jennings, Herbert, Holdenville, Okla. Hose coupling. 1,699,591; Jan. 22.
- Jennings, Ira E., Riverton, Nebr. Concrete chain. 1,700,533; Jan. 29.
- Jennings, Irving C., South Norwalk, Conn. Vapor heating device. 1,699,193; Jan. 15.
- Jennings, Irving C., South Norwalk, Conn. Centrifugal pumping apparatus. 1,700,678; Jan. 29.
- Jennings, Irving C., South Norwalk, Conn. Priming mechanism for hydroturbine air pumps. 1,702,118; Feb. 12.
- Jennings, Irving C., South Norwalk, Conn. Priming mechanism for hydroturbine air pumps. 1,702,119; Feb. 12.
- Jennings, Irving C., South Norwalk, Conn. Steam heating system for paper mills. 1,704,436; Mar. 5.
- Jennings, Irving C., South Norwalk, Conn. Hydroturbine pump. 1,718,294; June 25.
- Jennings, Irving C., South Norwalk, Conn. Steam-turbine-driven vacuum heating apparatus. 1,722,547; July 30.
- Jennings, Irving C., South Norwalk, Conn. Apparatus for burning oil. 1,724,658; Aug. 13.
- Jennings, Irving C., South Norwalk, Conn. Device for boring noncircular holes. 1,730,429; Oct. 8.
- Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 77,694; Feb. 12.
- Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 77,773; Feb. 19.
- Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 77,774; Feb. 19.
- Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 77,775; Feb. 19.
- Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 80,177; Dec. 24.
- Jennings, John E., New York, N. Y. Aerial tramway. 1,728,611; Sept. 17.
- Jennings, Melvin O., Arlington Heights, and L. E. Alley, North Cambridge, assignors to H. H. Beckwith, Brookline, Mass. Adhesive applying and pressing machine. 1,704,089; Mar. 5.
- Jennings, Oliver S., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Inclosed switch. 1,709,668; Apr. 16.
- Jennings, Oliver S., Brooklyn, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Relay. 1,728,550; Sept. 17.
- Jennings, Oliver S., Brooklyn, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Relay. 1,728,551; Sept. 17.
- Jennings, Oliver S., Brooklyn, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Fuse-panel box. 1,729,877; Oct. 1.
- Jennings, Seldon, Providence, Ky. Automatic mine-car stop. 1,701,040; Feb. 5.
- Jennow, Otto E. (See Harms, A. E., and Jennow.)
- Jenny, Willy, Houston, Tex., assignor to Shell Petroleum Corporation. Angle and hypotenuse measuring instrument. 1,730,852; Oct. 8.
- Jensen, Aage, Los Angeles, Calif. Apparatus for pasteurizing liquids. 1,701,777; Feb. 12.
- Jensen, Aage, Los Angeles, Calif. Reconstructing liquid mixtures. 1,721,121; July 16.
- Jensen, Aage, Los Angeles, Calif. Apparatus for treating liquids. 1,738,953; Dec. 10.
- Jensen, Aage, Los Angeles, Calif. Liquid-treating apparatus. 1,738,954; Dec. 10.
- Jensen, Albert L., Oakland, Calif., assignor to Doble Steam Motors Corporation, Wilmington, Del. Steam-pipe mounting. 1,701,756; Feb. 12.
- Jensen, Amos V., Cedar Falls, Iowa, assignor to The Viking Pump Company. Rotary pump. 1,709,580; Apr. 16.
- Jensen, Andrew M., Stockton, Calif. Envelope opener. 1,740,018; Dec. 17.
- Jensen, Axel G. (See Friis, H. T., and Jensen.)
- Jensen, Axel G., Red Bank, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric wave translation system. 1,722,094; July 23.
- Jensen, Borge C. S., Frederiksberg, and J. P. Petersen, Copenhagen, Denmark. Tire-deflation switch. 1,736,534; Nov. 19.
- Jensen, Carl C., Chicago, Ill. Vise. 1,730,510; Oct. 8.
- Jensen, Carl C., assignor to Clamp Nail Company, Chicago, Ill. Clamp nail. 1,721,561; July 23.
- Jensen, Chris, Kansas City, Mo. Dust collector. 1,708,697; Apr. 9.
- Jensen, George K. (See Cubitt, A. S., and Jensen.)
- Jensen, Herbert R., Whakatonga, New Zealand. Mole drain plow. 1,701,235; Feb. 5.
- Jensen, J. P. (See Abel, Carl C., assignor.)
- Jensen, James A., assignor to Quaker City Iron Works, Philadelphia, Pa. Vent device. 1,724,878; Aug. 13.
- Jenson, James B., Salt Lake City, Utah. Process and apparatus for treating petrogen containing substances. 1,734,970; Nov. 12.
- Jensen, James I. (See Stitt, C. W., and Jensen.)
- Jensen, John P. (See Bergmann, C. N. Taylor, Jensen, and Fenn.)
- Jensen, John, assignor to Whitney Metal Tool Company, Rockford, Ill. Angle-iron shear. 1,721,182; July 16.
- Jensen, Karl E., assignor to Industrial Gloves Corporation, Chicago, Ill. Legging. 1,708,271; Apr. 9.
- Jensen, Karl E., assignor to Industrial Gloves Corporation, Chicago, Ill. Legging. 1,708,272; Apr. 9.
- Jensen, Karl K. (See Jensen, Peter L., assignor.)
- Jensen, Lars L., Chicago, Ill. Brush. 1,704,837; Mar. 12.
- Jensen, Leo D., Chicago, Ill., assignor, by mesne assignments, to United Chromium, Incorporated, New York, N. Y. Tank for chromium plating baths. 1,709,022; Apr. 16.
- Jensen, Leth, Paris, France. Carburetor for internal-combustion engines. 1,739,396; Dec. 10.
- Jensen, Louis, and C. L. Winter, assignors to United Autographic Register Company, Chicago, Ill. Autographic register. 1,725,586; Aug. 20.
- Jensen, Martin. (See Trant, J. J., and Jensen.)
- Jensen, Oluf F., Council Bluffs, Iowa, assignor, by mesne assignments, to Locomotive Finished Material Company, Atchison, Kans. Railway highway crossing. Re17,201; Jan. 29.
- Jensen, Peter, Daly City, Calif. Parking device for automobiles. 1,736,498; Nov. 19.
- Jensen, Peter L., Alameda, assignor to K. K. Jensen, Piedmont, Calif. Magnet. 1,721,023; July 16.
- Jenson, Robert H., Houston, Tex., assignor, by mesne assignments, to Brown Metal and Cork Company. Casting machine. 1,725,984; Aug. 27.
- Jenson, Robert H., Houston, Tex., assignor, by mesne assignments, to Brown Metal and Cork Company. Shaping machine. 1,725,985; Aug. 27.
- Jensen, Soren K., Wichita, Kans. Can-washing apparatus. 1,730,658; Oct. 8.
- Jensen, Theodore, Askov, Minn. Double nail set. 1,702,607; Feb. 19.
- Jensen, Theodore, Jenkintown, assignor to John Wana-maker, Philadelphia, Pa. Hand-warming device. 1,724,799; Aug. 13.
- Jensky, Clarence F., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine blade. 1,732,234; Oct. 22.
- Jenssen, G. D., Company. (See Strindlund, John, assignor.)
- Jentsch, Carl W., San Francisco, Calif. Game board. Des. 78,103; Mar. 26.
- Jeppson, Barent O., Corinne, Utah. Crust crusher for beet cultivators. 1,718,823; June 25.
- Jeppson, George N., assignor to Norton Company, Worcester, Mass. Segmental abrasive wheel. 1,734,012; Oct. 29.
- Jepsen, Peter, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Apparatus for electrogalvanizing. 1,706,529; Mar. 26.
- Jerauld, Frank C., Cranston, assignor to Winsor & Jerauld Mfg. Co., Providence, R. I. Tenter clip. 1,706,613; Mar. 26.
- Jerauld, Frank L., Cranston, assignor to Winsor & Jerauld Mfg. Co., Providence, R. I. Tenter clip. 1,718,692; June 25.
- Jerdone, Francis, Jr., assignor to Industrial Research Corporation, Toledo, Ohio. Starter for engines. 1,735,250; Nov. 12.
- Jereb, Paul, Ekalaka, Mont. Internal-combustion engine. 1,734,489; Nov. 5.
- Jerezek, Viktor, Weissensee, near Berlin, assignor to Stock Motorplüg Aktiengesellschaft, Berlin, Germany. Tractor with chain-track drive. 1,711,601; May 7.
- Jerezek, Viktor, Lichtenberg, near Berlin, assignor to Schnellpressenfabrik Aktiengesellschaft Heidelberg, Heidelberg, Germany. Platen printing press. 1,728,830; Sept. 17.
- Jeremiassen, Finn, assignor to Aktieselskapet Krystal, Oslo, Norway. Precipitating solid substances in coarse granular condition from solutions. 1,704,611; Mar. 5.
- Jermáf, František, Opava, Czechoslovakia. Hydrostatic weir shutter. 1,716,698; June 11.
- Jermáf, František, Opava, Czechoslovakia. Weir shutter. 1,737,311; Nov. 26.
- Jermom Horace D., assignor to Crescent Appliance Corporation, Gloucester, N. J. Electric heater. 1,727,983; Sept. 10.
- Jernberg, Carl R., assignor to Standard Forgings Company, Chicago, Ill. Making forged-steel wheels. 1,710,058; Apr. 23.
- Jerome, Henry G., Montreal, Quebec, Canada. Stringed musical instrument. 1,701,809; Feb. 12.
- Jerram, Arthur E. (See Keall, F. B., and Jerram.)



- Jerram, Arthur E., Oadby, England. Power-driven lawn mower. 1,709,791; Apr. 16.
- Jerram, Arthur E., and F. B. Keall, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Edge-setting machine. 1,703,194; Feb. 26.
- Jervan, Ole S., Milwaukee, Wis. Thermostatic-control fan for internal-combustion engines. 1,740,095; Dec. 17.
- Jervy, Frank J., Charleston, S. C. Combination mount for machine guns. 1,701,810; Feb. 12.
- Jervoise, Edwyn, London, England. Roller skate. 1,703,936; Mar. 5.
- Jeschke, Alfred W., Baltimore, Md. Shade bracket. 1,708,272; Apr. 9.
- Jespersen, Helgo W., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working pulposus material. 1,717,783; June 18.
- Jessen, Arnold H., Los Angeles, Calif. Transmission. 1,707,399; Apr. 2.
- Jessen, Charles C., assignor to Napon Rayon Corporation, Clifton, N. J. Traverse mechanism for winding and relaying machines. 1,706,530; Mar. 26.
- Jessen, Charles C., Passaic, assignor to Napon Rayon Corporation, Clifton, N. J. Winding machine. 1,727,884; Sept. 10.
- Jessen, Henry L., Alameda, Calif. Oil burner. 1,738,655; Dec. 10.
- Jessen, James, Milwaukee, Wis., assignor, by mesne assignments, to Industrial Research Corporation, Toledo, Ohio. Tractor. 1,717,980; June 18.
- Jessop, George A., assignor to S. Morgan Smith Company, York, Pa. Draft tube. 1,711,891; May 7.
- Jessop, George A., assignor to S. Morgan Smith Company, Inc., York, Pa. Draft tube. 1,711,892; May 7.
- Jessop, S. T. Co. (See Jessop, Sidney T., assignor.)
- Jessop, Sidney T., assignor to S. T. Jessop Co., Inc., Chicago, Ill. Brake-lining clamp. 1,726,354; Aug. 27.
- Jessup, George K. (See Murray, T. B., and Jessup.)
- Jessup & Moore Paper Co., The. (See Buck, F. H., and McRae, assignors.)
- Jessup, Richard D., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for applying and baking an insulating enamel coating. 1,722,797; July 30.
- Jessup, Wardlaw A., Milwaukee, Wis. Spring wheel. 1,706,297; Mar. 19.
- Jester, John R. (See Clark, A. T., Leonhauser, and Jester.)
- Jeter, John D., Salisbury, N. C. Ball-throwing machine. 1,707,726; Apr. 2.
- Jeter, Luther, Louisville, Ky. Saw-tooth-filing device. 1,740,019; Dec. 17.
- Jett, George C., assignor of two-fifths to W. H. Stiemke, Milwaukee, Wis. Creeper-truck framework. 1,720,553; July 9.
- Jett, George C., assignor to Runge Corn Harvester Company, Milwaukee, Wis. Corn picking and husking machine. 1,727,012; Sept. 3.
- Jette, David K., Midskog, Sweden. Flying machine. 1,714,170; May 21.
- Jevnisek, Michael J., Milwaukee, Wis. Aeroplane. 1,716,351; June 4.
- Jewel Emblem Manufacturing Company. (See Pepin, Joseph N., assignor.)
- Jewell, Edward P., New York, N. Y., assignor to Vitreous Steel Products Company, Cleveland, Ohio. Wall structure. 1,723,621; Aug. 6.
- Jewell Electrical Instrument Co. (See Miller, John H., assignor.)
- Jewell Electrical Instrument Co. (See Simpson, Ray, assignor.)
- Jewell, Frederick C. and H. S., Chicago, Ill. Hydrometer. 1,706,234; Mar. 19.
- Jewell, Henry S. (See Jewell, Frederick C. and H. S.)
- Jewett, Edmund G., Brooklyn, N. Y. Baseball game. 1,710,773; Apr. 30.
- Jewitt, Dennis E., Rugby, England, assignor to General Electric Company. Electric ship-propulsion system. 1,701,373; Feb. 5.
- Jewitt, Dennis E., Rugby, England, assignor to General Electric Company. Power system. 1,738,433; Dec. 3.
- Jiffa Ges. m. b. H. (See Schworetzky, Gustav, assignor.)
- Jiffy Corporation. (See Lyons, Jay W., assignor.)
- Jiffy Wire Connector Company, The. (See Somner, William R., assignor.)
- Jimenez, Agustin, New York, N. Y. Hat-holding stand. 1,698,633; Jan. 8.
- Jiménez, Agustin, New York, N. Y. Hat block. 1,707,616; Apr. 2.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. 1,712,436; May 7.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Locking device for handles. 1,712,437; May 7.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for pneumatic tools. 1,737,312; Nov. 26.
- Jipp, August. (See Abild, A., Jipp, Steiner, and Tüczek.)
- Jiretz, John, sr., Tampa, Fla. Dishwasher. 1,709,476; Apr. 16.
- Jirotko, Bohumil, Berlin, Germany, assignor to the firm Dr. Otto Sprenger Patentverwertung Jirotko m. b. H., Vaduz, Liechtenstein. Producing colored-light effects. 1,697,655; Jan. 1.
- Joachim, George L., Madison, Wis. Drain trap. 1,703,769; Feb. 26.
- Joachim, Hermann, Cassel, Germany. Device for stopping cinematographic projection apparatus. 1,702,302; Feb. 19.
- Joanna Mercantile Company. (See Lyles, James N., assignor.)
- Job, Albert. (See Mieg, W., and Job.)
- Jobe, James I. (See Cody, M. J., and Jobe.)
- Jobe, James I., Topeka, assignor of one-half to C. Thompson and J. A. Swenson, White City, Kans. Pipe coupling. 1,725,713; Aug. 20.
- Jobke, August F., Pittsburgh, Pa. Magnetic separator. 1,714,171; May 21.
- Jobst, Conrad, assignor, by mesne assignments, to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Brush machine. 1,706,450; Mar. 26.
- Jobst, Conrad, assignor, by mesne assignments, to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Apparatus for forming brushes. 1,706,451; Mar. 26.
- Jobst, Conrad, assignor to The Toledo Automatic Brush Machine Company, Toledo, Ohio. Brush machine. 1,712,216; May 7.
- Jobst, Günther, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Thermionic tube. 1,732,050; Oct. 15.
- Jochheim, Hermann. (See Luther, M., and Jochheim.)
- Jochimsen, Richard, and B. Henze, New York, N. Y. Universal washline. 1,703,195; Feb. 26.
- Jochumsen, Frederick S., Pittsburgh, Pa. Valve-spring-lifting tool. 1,726,958; Sept. 3.
- Joekmus, Charles H., Ansonia, Conn. Dish. 1,712,042; May 7.
- Joekmus, Charles H., Ansonia, Conn. Valve unit for steam traps. 1,739,638; Dec. 17.
- Joekmus, Charles H., Ansonia, Conn. Radiator valve. 1,739,721; Dec. 17.
- Jodeck, Paul, Berlin, assignor to Allgemeine Gesellschaft für Chemische Industrie m. b. H., Berlin-Schöneberg, Germany. Apparatus for continuously expelling the sulphur dioxide from mixtures of sulphur dioxide and oil. 1,738,070; Dec. 3.
- Joerndt, Fred M., and W. A. Joerndt, Chicago, Ill.; said Wilbur A. Joerndt assignor to said Fred M. Joerndt. Printer's magazine rack. 1,725,143; Aug. 20.
- Joerndt, Fred M., and W. A. Joerndt, Chicago, Ill. Auxiliary melting pot. 1,728,888; Sept. 17.
- Joerndt, Wilbur A. (See Joerndt, Fred M. and W. A.)
- Joffe, Julius, et al. (See Norton, John H., assignor.)
- Joffe, Philip, New York, N. Y. Label protector. 1,705,407; Mar. 12.
- Joffe, Philip, New York, N. Y. Container. 1,726,740; Sept. 3.
- Joham, Charles W., Los Angeles, Calif., assignor to Stern, Joham and Grossman, Inc. Display-stand column. Des. 79,793; Aug. 13.
- Johann, Charles S., Monterey Park, assignor to CO<sub>2</sub> Fire Equipment Co., Los Angeles, Calif. Fluid-control device. 1,704,944; Mar. 12.
- Johannesen, Douglas H., Chicago, Ill. Vehicle spring. 1,702,008; Feb. 12.
- Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Electrical induction apparatus. 1,698,634; Jan. 8.
- Johannesmeyer, Charles G., Glendale, assignor to The Liberty Machine Tool Company, Hamilton, Ohio. Metal-planing machine. 1,704,324; Mar. 5.
- Johannesmeyer, Charles G., Glendale, assignor to The Liberty Machine Tool Company, Hamilton, Ohio. Metal-planing machine. 1,706,452; Mar. 26.
- Johannessen, Johannes, Jersey City, N. J. Crank-shaft grinding machine. 1,737,159; Nov. 26.
- Johannessen, John, New York, N. Y. Spinner toy. Des. 78,822; June 25.
- Johannessen, John, New York, N. Y. Game board. 1,738,582; Dec. 10.
- Johannsen, Friedrich, assignor to the firm: Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Producing metallic sulphates. 1,725,865; Aug. 27.
- Johannsen, Friedrich, Clausthal-on-the-Harz, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Treatment of sulphide ores or sulphidic metallurgical products. 1,728,681; Sept. 17.
- Johansen, Andrew, Brooklyn, N. Y. Switch mechanism for testing transformers. 1,738,601; Oct. 29.
- Johansen, Harry C., Michigan City, Ind., assignor to Sullivan Machinery Company. Drilling apparatus. 1,703,823; Feb. 26.
- Johansen, John W., West New York, N. J. Clothesline holder. 1,719,182; July 2.
- Johansen, Leif H., Oslo, Norway. Dispensing apparatus for soap powder and the like. 1,735,902; Nov. 19.
- Johanson, Carl U., et al. (See Anderson, Carl J., assignor.)
- Johanson, Gustav H., Philadelphia, Pa. Automatic temperature-control apparatus. 1,739,903; Dec. 17.
- Johanson, Magnus H. (See Candee, A. H., and Johanson.)
- Johanson, Magnus H., assignor to Gleason Works, Rochester, N. Y. Tool mechanism for gear-cutting machines. 1,731,421; Oct. 15.



- Johansson, Bror A. L., assignor to Helios Corporation, Chicago, Ill. Mechanism for converting motion. 1,708,542; Apr. 9.
- Johansson, Carl E., South Manchester, Conn. Guiding attachment for carpenters' planes. 1,699,395; Jan. 15.
- Johansson, Carl E., Detroit, Mich. Gauge. 1,740,695; Dec. 24.
- Johansson, Ernest G., Watertown, assignor to The Palmer Electric & Manufacturing Co., Waltham, Mass. Safety switch. 1,733,126; Oct. 29.
- Johansson, Ernest G., Boston, assignor, by mesne assignments to The Palmer Electric & Manufacturing Co., Waltham, Mass. Safety switch. 1,733,155; Oct. 29.
- Johansson, Victor C., Long Island City, N. Y. Supporting device. 1,717,156; June 11.
- Johantges, John S., Montreal, Quebec, Canada, assignor to American Can Company, New York, N. Y. Can. 1,734,730; Nov. 5.
- John Deere Tractor Company. (See McCray, Harold E., assignor.)
- John, Henry, Houston, Tex. Pump. 1,732,366; Oct. 22.
- John, Kenneth B., C. W. Coslow, and C. J. Schwindt, assignors, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Tablet machine. 1,741,312; Dec. 31.
- Johns, Lee, Miami, Fla. Artificial bait. 1,697,120; Jan. 1.
- Johns-Manville Corporation. (See Beckwith, Charles J., assignor.)
- Johns-Manville Corporation. (See Cannon, Phillip D., assignor.)
- Johns-Manville Corporation. (See Christenson, George, assignor.)
- Johns-Manville Corporation. (See Christenson, George E., Jr., assignor.)
- Johns-Manville Corporation. (See Parsons, Raymond V., assignor.)
- Johns-Manville Corporation. (See Walsh, Joseph H., assignor.)
- Johns-Manville Corporation. (See Williams, S. A., and Pond, assignors.)
- Johns, Nick. (See Graves, Paul D., assignor.)
- Johnsen, Alfred H., Whiting, Ind. Vault-door stopper. 1,707,481; Apr. 2.
- Johnsen, Alfred H., Whiting, Ind. Vault-door stopper. 1,707,482; Apr. 2.
- Johnsen, Anton E., Chicago, Ill. Fire escape. 1,704,361; Mar. 5.
- Johnsen, Bjarne, assignor to Hammermill Paper Company, Erie, Pa. Chemical pulping process. 1,737,590; Dec. 3.
- Johnsen, Bjornulf, Brooklyn, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Oil-dispensing apparatus. 1,739,313; Dec. 10.
- Johnson, Aaron B. (See Johnson, Carl J. and A. B.)
- Johnson, Aaron W., West Bend, Wis. Ensilage distributor for filling silos. 1,729,341; Sept. 24.
- Johnson Aeroplane Corporation. (See Johnson, Jesse C., assignor.)
- Johnson, Albert B., Hartford, Conn. Artificial-tooth construction. 1,702,212; Feb. 12.
- Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Spindle sleeve for drilling machines. 1,727,984; Sept. 10.
- Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Automatic facing tool for drilling machines and the like. 1,732,558; Oct. 22.
- Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Machine-tool feed. 1,732,559; Oct. 22.
- Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Honing machine. 1,732,560; Oct. 22.
- Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Tool-spindle brake mechanism. 1,735,400; Nov. 12.
- Johnson, Albert M., assignor to Barnes Drill Company, Rockford, Ill. Band-brake stop for drill feed shafts. 1,735,401; Nov. 12.
- Johnson, Albert R., New York, N. Y. Amusement apparatus. 1,707,859; Apr. 2.
- Johnson, Alfred E., Denver, Colo. Hoist controller. 1,720,840; July 16.
- Johnson, Alfred J., assignor to York Band Instrument Company, Grand Rapids, Mich. Saxophone. 1,703,109; Feb. 26.
- Johnson, Alfred J., assignor to York Band Instrument Company, Grand Rapids, Mich. Saxophone. 1,735,576; Nov. 12.
- Johnson, Allen R. P., Toronto, Ontario, Canada. Direction-indicator switch. 1,709,619; Apr. 16.
- Johnson, Alvin L., Worcester, Mass. Making racks. 1,731,859; Oct. 15.
- Johnson, Alvin L., Worcester, Mass., assignor to Walker Manufacturing Company, Racine, Wis. Jack. 1,735,839; Nov. 12.
- Johnson, Amund. (See Nickerson, Elmer, assignor.)
- Johnson, Andrew S., assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Hoisting mechanism for charging hoppers. 1,714,957; May 28.
- Johnson, Annie E., Cleveland, Ohio. Cooking utensil. 1,728,064; Sept. 10.
- Johnson, Arnold, Devils Lake, N. Dak. Verminproof perch support. 1,736,499; Nov. 19.
- Johnson, Arnold E. W. (See Rancy, C. R., and Johnson.)
- Johnson, Arnold E. W., Chicago, Ill., assignor to International Harvester Company. Harvester thrasher. 1,734,435; Nov. 5.
- Johnson, Arthur A., assignor to Underwood Elliott Fischer Company, New York, N. Y. Manifold device. 1,736,535; Nov. 19.
- Johnson, Augustus K., assignor to A. B. Bowman, San Diego, Calif. Metal can and opening the same. 1,719,295; July 2.
- Johnson Automatic Sealer Co. (See Robinson, George A., assignor.)
- Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
- Johnson, Axel, Oakland, Calif. Electric heater for recess mountings. 1,719,181; July 2.
- Johnson, Axel W., Nederland, Colo. Flotation concentrator. 1,702,443; Feb. 19.
- Johnson, Benjamin, East Onondaga, N. Y., assignor to American Telephone and Telegraph Company. Insulator for bridle wires. 1,700,166; Jan. 29.
- Johnson, Bror A. E. (See Ekström, G. C., and Johnson.)
- Johnson Brothers Engineering Corporation. (See Johnson, Harry L., assignor.)
- Johnson, Carl A., East Grand Forks, Minn. Runner for automobiles. 1,728,566; Sept. 17.
- Johnson, Carl E., Oakland, Calif. Garage-door latch-releasing device. 1,718,465; June 25.
- Johnson, Carl E., assignor to United States Electrical Manufacturing Company, Los Angeles, Calif. Vertical-turbine-pump head. 1,704,362; Mar. 5.
- Johnson, Carl E., Los Angeles, Calif., assignor to United States Industries, Inc. Turbine pump. 1,714,484; May 21.
- Johnson, Carl E., assignor to United States Electrical Manufacturing Company, Los Angeles, Calif. Induction motor with movable magnetic bridges. 1,740,599; Dec. 24.
- Johnson, Carl G., Eau Claire, Wis. Photographing objects. 1,727,288; Sept. 3.
- Johnson, Carl G., Roslindale, Mass. Telephone index. 1,731,422; Oct. 15.
- Johnson, Carl G., Eau Claire, Wis. High-light stop for cameras. 1,732,051; Oct. 15.
- Johnson, Carl J. A., assignor to J. & C. G. Bolinders Mekanska Verkstads Aktiebolag, Stockholm, Sweden. Fixed-knife drawer for planing machines. 1,703,007; Feb. 19.
- Johnson, Carl J., and A. B., Louisville, Ky. Electrotherapeutic instrument. 1,731,627; Oct. 15.
- Johnson, Carl O., Superior, Wis. Metatarsal arch support and grip. 1,736,827; Nov. 26.
- Johnson, Carl V., Indiana Harbor, Ind. Key-ring holder. 1,700,132; Jan. 29.
- Johnson, Carl W., Shaker Heights, assignor to the Cleveland Graphite Bronze Company, Cleveland, Ohio. Making thrust bearings. 1,720,791; July 16.
- Johnson, Carlton C., Oswego, Kans. Shot-firing apparatus. 1,704,131; Mar. 5.
- Johnson, Charles. (See Hanson, Gust, assignor.)
- Johnson, Charles, assignor of one-half to F. C. Avery, Chicago, Ill. Combined pencil clip and sharpener. 1,699,791; Jan. 22.
- Johnson, Charles A., Middletown, Calif. Flytrap. 1,717,708; June 18.
- Johnson, Charles D., assignor of one-third to O. L. Davis and one-third to F. E. Jennings, Kansas City, Mo. Multiple-socket insert for concrete work. 1,719,611; July 2.
- Johnson, Charles E., New York, N. Y. Adjustable cabinet disk tray. 1,714,266; May 21.
- Johnson, Charles E., West Hobart, Tasmania, Australia. Pressure-fluid generator. 1,726,491; Aug. 27.
- Johnson, Charles E., Muskegon, Mich. Oil-conserving piston. 1,738,534; Dec. 10.
- Johnson, Charles E., North Muskegon, assignor to Piston Ring Company, Muskegon Heights, Mich. Piston-ring rough grinder. 1,736,159; Nov. 19.
- Johnson, Charles E., assignor to The Piston Ring Company, Muskegon Heights, Mich. Pressure head for piston-ring grinders. 1,736,199; Nov. 19.
- Johnson, Charles G., Bridgeport, Conn. Grinding, polishing, and buffing machine. 1,723,622; Aug. 6.
- Johnson, Charles O., Brittatorp, Sweden. Motor surfing apparatus. 1,712,620; May 14.
- Johnson, Charles S., Champaign, Ill. Determining the moisture content in aggregates. 1,712,621; May 14.
- Johnson, Charles S., Champaign, Ill. Indicating device. 1,712,767; May 14.
- Johnson, Charles S., Champaign, Ill. Proportioning total water in concrete. 1,731,781; Oct. 15.
- Johnson, Charles S., Champaign, Ill. Proportioning aggregates and water for concrete. 1,733,410; Oct. 29.
- Johnson, Charles W., Seattle, Wash. Combination air and oil valves. 1,738,071; Dec. 3.
- Johnson, Charlie C., Winston-Salem, N. C. Sheet-feeding device. 1,703,937; Mar. 5.
- Johnson, Charlie C., Winston-Salem, N. C. Sheet-dispensing apparatus. 1,703,938; Mar. 5.
- Johnson, Chester A. (See Cook, H. R., and Johnson.)
- Johnson, Chester A., assignor to Jefferson Electric Company, Chicago, Ill. Outlet box. 1,734,971; Nov. 12.
- Johnson, Chester A., assignor to Jefferson Electric Company, Chicago, Ill. Machine for assembling fuses. 1,741,719; Dec. 31.
- Johnson, Chester A., and G. Nyberg, assignors to Chicago Jefferson Fuse & Electric Company, Chicago, Ill. Switch-box mounting. 1,705,768; Mar. 19.
- Johnson, Chester H., Cresbard, S. Dak. Corn picker. 1,717,882; June 18.



- Johnson, Chester W., Cambridge, assignor to The Electrocraft Corporation, Boston, Mass. Electric lighter. 1,717,565; June 18.
- Johnson, Clarence P., Newton, Mass. Display stand for merchandise. 1,711,203; Apr. 30.
- Johnson, Clifford J., near Leland, Ill. Corn harvester. 1,734,972; Nov. 12.
- Johnson, Colvin L., deceased, St. Louis, Mo.; J. W. Johnson, executrix. Cable fitting. 1,732,581; Oct. 22.
- Johnson, Colvin L., assignor of one-half to M. Lippmann, St. Louis, Mo. Bottle-capping machine. 1,702,261; Feb. 19.
- Johnson, Colvin L., assignor, by mesne assignments, to Johnson Automobile Lock Co., St. Louis, Mo. Transmission lock. 1,712,500; May 14.
- Johnson, Colvin L., assignor, by mesne assignments, to Johnson Automobile Lock Company, St. Louis, Mo. Transmission-housing cover-locking means. 1,717,452; June 18.
- Johnson, Colvin L., assignor, by mesne assignments, to Johnson Automobile Lock Co., St. Louis, Mo. Transmission-cover-locking means. 1,724,939; Aug. 20.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., St. Louis, Mo. Gear-shift-lever lock. 1,725,003; Aug. 20.
- Johnson, Colvin L., assignor, by mesne assignments, to Johnson Automobile Lock Company, St. Louis, Mo. Locking means for automatic gear-shift mechanisms. 1,740,096; Dec. 17.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., St. Louis, Mo. Refrigerator-coil mounting. 1,741,989; Dec. 31.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Company, St. Louis, Mo. Transmission lock. 1,741,990; Dec. 31.
- Johnson, Conrad A., Jamestown, N. Y. Radiator shield. 1,706,028; Mar. 19.
- Johnson, Dexter, G., and W. L. Campbell, Oklahoma City, Okla. Bowling-alley-surfacing machine. 1,740,244; Dec. 17.
- Johnson, Dion L., and W. F. Barnes, Tulsa, Okla. Well-drilling apparatus. 1,736,854; Nov. 26.
- Johnson, Earl R., Chicago, Ill. Pen or pencil name clip. 1,712,501; May 14.
- Johnson, Earl V., Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Resilient member. 1,697,872; Jan. 8.
- Johnson, Edward, North Pelham, assignor to Melnecke & Company, New York, N. Y. Adhesive-tape roller. 1,731,782; Oct. 15.
- Johnson, Edward E. (See Griffin, Arthur L., assignor.)
- Johnson, Edward E., St. Paul, Minn. Coupling and making the same. 1,716,138; June 4.
- Johnson, Edward E., St. Paul, Minn. Constant-liquid-level apparatus. 1,731,928; Oct. 15.
- Johnson, Edward E., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Pen and pencil mount. 1,741,368; Dec. 31.
- Johnson, Edward H., Kohler, assignor of one-half to J. H. Huber, Sheboygan, Wis. Air moistener. 1,739,073; Dec. 10.
- Johnson, Edward P., Chicago, Ill. Spotlight. 1,698,438; Jan. 8.
- Johnson, Edward P., Chicago, Ill. Safety guard for punch presses. 1,740,419; Dec. 17.
- Johnson, Edwin F., St. Paul, Minn. Thimble-embossing machine. 1,723,785; Aug. 6.
- Johnson, Ellie H. (See Uhlman, J. J., and Johnson.)
- Johnson, Ellis. (See Natzke, Reinol H., assignor.)
- Johnson, Elmer, Washington, D. C., dedicated, by assignments, to the Government and the People of the United States. Airplane powder-dusting apparatus. 1,703,308; Feb. 26.
- Johnson, Elmer A., Los Angeles, Calif. Self-adjusting bearing. 1,716,062; June 4.
- Johnson, Elmo W., Hicksville, N. Y. Potato-digger attachment for tractors. 1,721,122; July 16.
- Johnson, Elton N., La Salle, N. Y. Ironing board. 1,719,551; July 2.
- Johnson, Emil A., Northwood, N. Dak. Oats Separator. 1,731,167; Oct. 8.
- Johnson, Emil L., and O. Lundsten, Attleboro, Mass. Extension device. 1,701,041; Feb. 5.
- Johnson, Emma K. (See Johnson, Homer B., assignor.)
- Johnson, Emma K., administratrix. (See Johnson, Homer B.)
- Johnson, Enos H., Los Angeles, Calif., assignor to Johnson & Wright. Hose-repair device. 1,721,864; July 23.
- Johnson, Erik W., assignor of one-half to L. A. Kamradt, Chicago, Ill. Mold and liner for linotype machines. 1,736,556; Nov. 19.
- Johnson, Ernest G. (See Palmer, G. E., and Johnson.)
- Johnson, Ernest M., Highland Park, Mich. Vehicle route-directory device. 1,728,997; Sept. 24.
- Johnson, Ernest S., Webster City, Iowa. Automobile supply tank and holder. Re17,204; Feb. 5.
- Johnson, Ernest S., Webster City, Iowa, assignor to Knapp-Monarch Company, St. Louis, Mo. Insulated container. 1,711,115; Apr. 30.
- Johnson, Ernest S., Webster City, Iowa, assignor to Knapp-Monarch Company, St. Louis, Mo. Electric bread toaster. 1,714,027; May 21.
- Johnson, Ernest S., Webster City, Iowa, assignor to Knapp-Monarch Company, St. Louis, Mo. Electric heater. 1,722,579; July 30.
- Johnson, Ernest T., Jamestown, N. Y. Building construction. 1,701,679; Feb. 12.
- Johnson Fare Box Company. (See Thompson, Ernest H., assignor.)
- Johnson, Francis, Somerville, Mass. Valve. 1,698,439; Jan. 8.
- Johnson, Frank, Glen Ridge, N. J., assignor to National Pneumatic Company, New York, N. Y. Valve for fluid-pressure-actuated motors. 1,714,910; May 28.
- Johnson, Frank, assignor to General Motors Corporation, Detroit, Mich. Valve lifter. 1,726,513; Aug. 27.
- Johnson, Frank A. (See Voss, W. K., and Johnson.)
- Johnson, Frank L., Statesville, N. C. Bottle. Des. 80,235; Dec. 31.
- Johnson, Frank L., Akron, Ohio. Collapsible tire-building form. 1,730,213; Oct. 1.
- Johnson, Frank L., Akron, Ohio. Collapsible core. 1,740,245; Dec. 17.
- Johnson, Fred, Leicester, England. Apparatus for use with sole-laying presses for boots and shoes. 1,719,376; July 2.
- Johnson, Fred, Leicester, England. Sole-laying press for use in the repair and manufacture of boots and shoes. 1,741,844; Dec. 31.
- Johnson, Fred C., Franklin Park, Ill. Hose clamp. 1,730,511; Oct. 8.
- Johnson, Fred W., Kearney, Nebr. Incubator. 1,720,600; July 9.
- Johnson, Frederick G., New Haven, Conn. Resettable tire-test gauge and the like. 1,713,283; May 14.
- Johnson, Frederick G., New Haven, Conn. Tire test gauge and the like. 1,714,373; May 21.
- Johnson, Frederick H., Kenmore, N. Y. Aircraft flotation device. 1,704,612; Mar. 5.
- Johnson, Frederick H., South Pasadena, Calif. Cushion for sprinkler heads. 1,717,709; June 18.
- Johnson, Frederick W., Excelsior, Minn. Pump structure. 1,739,838; Dec. 17.
- Johnson, Freeman W., assignor of one-half to R. A. Rathburn, St. Paul, Minn. Signal switch device for motor vehicles. 1,729,616; Oct. 1.
- Johnson, George, Scranton, Pa. Display stand. Des. 77,776; Feb. 19.
- Johnson, George, Scranton, Pa. Display stand. Des. 77,777; Feb. 19.
- Johnson, George A., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,730,214; Oct. 1.
- Johnson, George B., Parker, S. Dak. Inscription device. 1,737,500; Nov. 26.
- Johnson, George M., Jeanette, assignor to Fort Pitt Mine Equipment Company, Pittsburgh, Pa. Car-feeding apparatus. 1,733,265; Oct. 29.
- Johnson, George M., Jeannette, assignor to Fort Pitt Mine Equipment Company, Pittsburgh, Pa. Car-stop device. 1,738,008; Dec. 3.
- Johnson, George S., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Removing condensate from steam-heated rollers. 1,709,581; Apr. 16.
- Johnson, George T., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Spring plank. 1,706,783; Mar. 26.
- Johnson, George T., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck side frame. 1,741,845; Dec. 31.
- Johnson, George W. (See Carroll, E. J., and Johnson.)
- Johnson, George W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Collar-conditioning apparatus. 1,698,405; Jan. 8.
- Johnson, George W., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Loading and unloading device for centrifugal extractors. 1,702,904; Feb. 19.
- Johnson, George W., and W. P. Beattie, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Electrically-operated laundry pressing machine. 1,727,013; Sept. 3.
- Johnson, Gust, Orrin, N. Dak. Draft equalizer. 1,711,567; May 7.
- Johnson, Gust, Orrin, N. Dak. Draft equalizer. 1,734,436; Nov. 5.
- Johnson, Gustaf I., assignor to Automatic Floor Waxing Machine Corporation, Malden, Mass. Combined casing and handle socket for a floor-treating machine. Des. 77,963; Mar. 12.
- Johnson, Gustaf O., Elkhart, Ind., assignor to Sidway-Tophill Company, Washington, Pa. Coaster-wagon brake. 1,717,384; June 18.
- Johnson, Gustav, West Roxbury, Mass., assignor, by mesne assignments, to Alemita Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,716,493; June 11.
- Johnson, Gustav, West Roxbury, Mass., assignor, by mesne assignments, to Carr Fastener Company. Fastener. 1,723,971; Aug. 6.
- Johnson, Gustav, West Roxbury, Mass., assignor, by mesne assignments, to Carr Fastener Company. Fastener. 1,723,972; Aug. 6.
- Johnson, Gustav, West Roxbury, Mass., assignor, by mesne assignments, to Carr Fastener Company. Fastener. 1,723,973; Aug. 6.
- Johnson, Gustav, West Roxbury, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Making and attaching fastener elements. 1,731,667; Oct. 15.



- Johnson, Gustav, West Roxbury, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Separable fastener. 1,737,537; Nov. 26.
- Johnson, Gustave A., assignor to American Metal Molding Co., Irvington, N. J. Armored electric cable. 1,710,312; Apr. 23.
- Johnson, Gustave A., assignor to American Metal Molding Co., Irvington, N. J. Combined ventilating and draining union for electric-circuit-wire conduits. 1,710,313; Apr. 23.
- Johnson, Harry, and C. E. Gustafson, Chicago, Ill. Portable receptacle. 1,707,483; Apr. 2.
- Johnson, Harry L., Minneapolis, assignor of one-half to A. M. Sorensen, St. Paul, Minn. Cleaning sieve. 1,701,778; Feb. 12.
- Johnson, Harry L., assignor to Johnson Brothers Engineering Corporation, South Bend, Ind. Water propulsion device. 1,716,962; June 11.
- Johnson, Harvey L., assignor to E. E. Lambert, Los Angeles, Calif. Trunk rack. 1,720,477; July 9.
- Johnson Helicopter Toy Aeroplane Corporation. (See Johnson, Jesse C., assignor.)
- Johnson, Henry E., et al. (See Lathrop, Asa, assignor.)
- Johnson, Henry O., Virginia, Minn. Hook or link. 1,725,195; Aug. 20.
- Johnson, Henry W., Naugatuck, Conn. Candelabrum. 1,721,273; July 16.
- Johnson, Herbert B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,733,602; Oct. 29.
- Johnson, Herbert E., Amery, Wis. Cream-can cover. 1,722,921; July 30.
- Johnson, Herbert L., Boston, Mass. Therapeutic agent for treatment of bodily lesions. 1,696,958; Jan. 1.
- Johnson, Herbert W., assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 1,705,865; Mar. 19.
- Johnson, Homer B., deceased, Sheridan, Ind.; E. K. Johnson, administratrix, assignor, by consent of court, to E. K. Johnson. Apparatus for charging beverages. 1,710,623; Apr. 23.
- Johnson, Howard J., et al. (See Boland, Virgil E., assignor.)
- Johnson, Ima P., and G. S. McMullen, Hollywood, Calif. Clasp. Des. 79,430; Sept. 17.
- Johnson, Ingman J., Los Angeles, Calif. Block for sheets of abrasive material. 1,724,661; Aug. 13.
- Johnson, James A., and G. A. Benson, Virginia Beach, assignors to Draft-Kater Corporation, Norfolk, Va. Draft control for steam boiler furnaces. 1,734,210; Nov. 5.
- Johnson, James H., San Mateo, Calif. Vehicle wheel. 1,704,613; Mar. 5.
- Johnson, James P., Cleveland Heights, Ohio. Differential mechanism. 1,717,784; June 18.
- Johnson, James T., High Point, N. C. Sanitary attachment for books. 1,705,668; Mar. 19.
- Johnson, James T., assignor of one-half to E. F. Bobbitt, Nashville, Tenn. Window screen. 1,731,668; Oct. 15.
- Johnson, Jarl, Fort Frances, Ontario, Canada. Renewable fuse. 1,734,211; Nov. 5.
- Johnson, Jesse C. (See Zuccarello, W. E., and Johnson.)
- Johnson, Jesse C., assignor to Johnson Aeroplane Corporation, Delray, Fla. Airplane. 1,713,874; May 21.
- Johnson, Jesse C., Delray, Fla., assignor to Johnson Helicopter Toy Aeroplane Corporation, New York, N. Y. Toy. 1,722,922; July 30.
- Johnson, Jessie W., executrix. (See Johnson, Colvin L.)
- Johnson, John A. (See Barnes, C. E., and Johnson.)
- Johnson, John A., Brooklyn, N. Y. Compressing and packing machine. 1,702,567; Feb. 19.
- Johnson, John A., Brooklyn, N. Y. Compressing and packing machine. 1,702,636; Feb. 19.
- Johnson, John A., assignor to Indiana Brass Company, Frankfort, Ind. Valve-operating lever. 1,710,827; Apr. 30.
- Johnson, John A., Meriden, assignor to The Bassick Company, Bridgeport, Conn. Caster-socket bracket. 1,717,883; June 18.
- Johnson, John B., Elmhurst, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,733,603; Oct. 29.
- Johnson, John E. (See Oslund, C. H., and Johnson.)
- Johnson, John E., Chicago, Ill. Grain cleaner. 1,733,604; Oct. 29.
- Johnson, John E., assignor to Speedamat Manufacturing Company, Chicago, Ill. Mailing machine. 1,709,077; Apr. 16.
- Johnson, John E., assignor to The New Haven Sherardizing Company, Hartford Conn. Air-bag cleaning and buffing machine. 1,735,903; Nov. 19.
- Johnson, John E., assignor to Speedamat Manufacturing Company, Chicago, Ill. Printing machine. 1,737,721; Dec. 3.
- Johnson, John E., and C. H. Oslund, assignors to The O & J Machine Company, Worcester, Mass. Labeling-machine discharge and edge-sticking attachment. 1,716,445; June 11.
- Johnson, John F., Westfield, N. J., assignor to Standard Oil Development Company. Treating hydrocarbons. 1,735,462; Nov. 12.
- Johnson, John M., Kansas City, Mo. Thermal circuit closer. 1,701,680; Feb. 12.
- Johnson, John S., Milwaukee, Wis. Hone wheel. 1,737,245; Nov. 26.
- Johnson, John W., Bluefield, W. Va. Pump lock for gasoline-vending machines. 1,733,195; Oct. 29.
- Johnson & Johnson. (See Dailey, Frank L., assignor.)
- Johnson & Johnson. (See Hayden, R. P., and Manley, assignors.)
- Johnson & Johnson. (See Johnson, Robert W., assignor.)
- Johnson & Johnson. (See Mathey, Gustave S., assignor.)
- Johnson & Johnson. (See Turner, John E., assignor.)
- Johnson, Jonas G., Baltimore, Md. Fireplace. Des. 78,210; Apr. 9.
- Johnson, Jonas G., Baltimore, Md. Fireplace. Des. 78,355; Apr. 23.
- Johnson, Jonas P., San Francisco, Calif. Firing tiles. 1,739,151; Dec. 10.
- Johnson, Joseph, East St. Louis, Ill. Cylinder head. 1,719,116; July 2.
- Johnson, Joseph B. (See Garvin, E. J., and Johnson.)
- Johnson, Joseph B., Alfalfa, Okla. Control for draft dampers. 1,717,157; June 11.
- Johnson, Joseph E., Kansas City, Mo. Display device. 1,711,790; May 7.
- Johnson, Joseph N., Irwin, Calif. Vacuum tank. 1,726,567; Sept. 3.
- Johnson, Josiah F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Minimizing fire in dynamo-electric machinery. 1,722,632; July 30.
- Johnson, Josiah F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gland runner. 1,729,444; Sept. 24.
- Johnson, Julian E., Chicago, Ill. Fluid-pressure brake. 1,722,633; July 30.
- Johnson, Laurence H. A., et al. (See Swanson, Charles J., assignor.)
- Johnson, Laverne J., Chicago, Ill. Pendant. 1,710,734; Apr. 30.
- Johnson, Lawrence E., Melrose, Mass., assignor to United Shoe Machine Corporation, Paterson, N. J. Fuel-oil burner. 1,702,162; Feb. 12.
- Johnson, Lawrence H. A., et al. (See Swanson, Charles J., assignor.)
- Johnson, Leon H., Lakewood, N. Y. Metal joint. 1,725,277; Aug. 20.
- Johnson, Leonard T., Newark, N. J. Scale. 1,698,501; Jan. 8.
- Johnson, Lewis H., Madison, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical testing system. 1,730,977; Oct. 8.
- Johnson, Lewis H., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,738,298; Dec. 3.
- Johnson, Lloyd E. (See Sparks, W., Scofield, Billig, and Johnson.)
- Johnson, Luther C., Essex, Iowa. Tractor-wheel-lug cleaner. 1,719,330; July 2.
- Johnson, M. F. (See Henderson, John E., assignor.)
- Johnson, Malcolm S., assignor to E. P. Smith, Chicago, Ill. Draft-gear carrier and center-sill antispreader. 1,709,078; Apr. 16.
- Johnson, Malcolm S., Chicago, assignor to E. P. Smith, Springfield, Ill. Brake-hanger support. 1,725,922; Aug. 27.
- Johnson, Manfred J., Bridgeport, Conn. Electrical device and system. 1,726,182; Aug. 27.
- Johnson, Martin N., Moline, Ill. Combination chair and ladder. 1,716,639; June 11.
- Johnson, Marvin, Uxbridge, Mass. Oil-can spout. 1,717,108; June 11.
- Johnson, Maude E., Englewood, Colo. Sewing-machine attachment. 1,739,397; Dec. 10.
- Johnson, Melvin D. (See Fischer, Joseph C., assignor.)
- Johnson Metal Products Co. (See Johnson, Theodore, assignor.)
- Johnson, Nathan C., Englewood, N. J. Cementitious molding. Re17,476; Oct. 29.
- Johnson, Nathan C., Englewood, N. J. Concrete construction. 1,728,936; Sept. 24.
- Johnson, Nels G., Oak Park, Ill. Padlock. 1,728,612; Sept. 17.
- Johnson Nils E., Rockford, Ill., assignor to P. A. Peterson, Rockford, Ill.; I. M. Peterson, executrix of the estate of said P. A. Peterson, deceased. Arch support. Re17,258; Apr. 2.
- Johnson, Nils F., Seattle, Wash., assignor of one-half to A. Yonsson, Bodum Rosson, Sweden. Log-boom attachment. 1,727,289; Sept. 3.
- Johnson, Noble M., Detroit, Mich. Internal-combustion engine. 1,729,271; Sept. 24.
- Johnson, Noble M., Detroit, Mich. Internal-combustion engine. 1,735,764; Nov. 12.
- Johnson, Norman E., assignor to Chicago Rhopac Products Company, Chicago, Ill. Packing and method of making. 1,721,155; July 16.
- Johnson, Norman O., assignor, by mesne assignments, to Illinois Carton & Label Company, Chicago, Ill. Carton and its blank. 1,722,422; July 30.
- Johnson, Olaf, Northville, N. Y. Brake-band-controlling device. 1,710,025; Apr. 23.
- Johnson, Oliver W., Geneva, Ohio. Valve lifter. 1,721,451; July 16.
- Johnson, Orville C., Aurora, Ill. Latch for closure operators. 1,720,554; July 9.
- Johnson, Orville C., Aurora, Ill. Closure operator. 1,740,020; Dec. 17.
- Johnson, Oscar, Elmhurst, N. Y. Pipe wrench. Des. 17,456; Oct. 15.



- Johnson, Oscar A., assignor to Riley Stoker Corporation, Worcester, Mass. Tuyere block. 1,710,260; Apr. 23.
- Johnson, Oscar B., Aromas, and H. M. Kortright, Watsonville, Calif. Reciprocatory piston machine. 1,730,659; Oct. 8.
- Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Deep-well pump. 1,723,041; Aug. 6.
- Johnson, Otto, Brookfield, assignor to E. Grigsby and W. C. Grunow, Chicago, Ill. Sound reproducer. 1,698,407; Jan. 8.
- Johnson, Otto, Brookfield, assignor to B. Grigsby and W. C. Grunow, Chicago, Ill. Sound reproducer. 1,698,408; Jan. 8.
- Johnson, Paul A., assignor of one-half to A. E. Jacobson, Grand Haven, Mich. Toilet seat hinge. 1,734,169; Nov. 5.
- Johnson, Paul G. (See Johnson, Theodore and P. G.)
- Johnson, Percy G., Letchworth, assignor to The Victaulic Company, Limited, London, England. Pipe joints. 1,701,326; Feb. 5.
- Johnson, Percy G., assignor to Victaulic Company Limited, London, England. Pipe joint. 1,704,003; Mar. 5.
- Johnson, Peter A., assignor of one-half to H. M. Klongland, Stoughton, Wis. Tractor rim. 1,732,517; Oct. 22.
- Johnson, Peter R., Excelsior, Minn. Calendar. 1,705,866; Mar. 19.
- Johnson, Ray W., Chicago, Ill. Antitheft spare-wheel device. 1,741,314; Dec. 31.
- Johnson, Raymond A. (See Felver, M. W., and Johnson.)
- Johnson, Raymond A., assignor of one-half to G. Branch, Delano, Calif. Babbitting jig. 1,728,971; Sept. 24.
- Johnson, Robert A. (See Fancher, C. J., and Johnson.)
- Johnson, Robert A. (See Francher, C. J., and Johnson.)
- Johnson, Robert H., Washington, D. C. Combined burner and scraper. 1,726,027; Aug. 27.
- Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. Filmmated surgical gauze. 1,701,207; Feb. 5.
- Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. Sanitary napkin. 1,705,366; Mar. 12.
- Johnson, Robert W., assignor to Johnson & Johnson, New Brunswick, N. J. Rack for adhesive plaster. 1,711,353; Apr. 30.
- Johnson, Rolly A., Los Angeles, Calif. Lawn sprinkler. 1,724,662; Aug. 13.
- Johnson, Roy H., Los Angeles, Calif. Extinguisher for cigarettes and cigars. 1,725,196; Aug. 20.
- Johnson, Roy W. (See Luthe, J. K., and Johnson.)
- Johnson, Roy W., assignor to The Time-O-Stat Company, Milwaukee, Wis. Safety device for gas water heaters. 1,700,316; Jan. 29.
- Johnson, Roy W., assignor, by mesne assignments, to Milwaukee Gas Specialty Company, Milwaukee, Wis. Oven-heat regulator. 1,713,832; May 21.
- Johnson, Roy W., Milwaukee, Wis., assignor, by mesne assignments, to Time-O-Stat Controls Company. Protective device. 1,725,866; Aug. 27.
- Johnson, Samuel E., Wheaton, Ill. Electric contacting device for railways. 1,721,156; July 16.
- Johnson, Samuel J., assignor to The Seinsheimer Paper Company, Cincinnati, Ohio. Garment bag. 1,704,680; Mar. 5.
- Johnson, Samuel J., assignor to The Seinsheimer Paper Company, Cincinnati, Ohio. Garment-hanger cover. 1,715,004; May 28.
- Johnson, Samuel J., assignor to The Seinsheimer Paper Company, Cincinnati, Ohio. Garment-hanger cover. 1,741,777; Dec. 31.
- Johnson Service Company. (See Fortier, Charles L., assignor.)
- Johnson Service Company. (See Otto, Carl A., assignor.)
- Johnson, Seth, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Car-lighting equipment. 1,714,092; May 21.
- Johnson, Seth, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Fan construction. 1,725,085; Aug. 20.
- Johnson, Smith M., Middlefield, Ohio. Apparatus for fastening pail covers. 1,706,299; Mar. 19.
- Johnson, Stevens & Shinkle Shoe Company. (See Spalsbury, Charles B., assignor.)
- Johnson, Sylvester A., North Providence, assignor to Speidel Bros., Providence, R. I. Clasp. 1,701,112; Feb. 5.
- Johnson, Sylvester A., North Providence, R. I., assignor to Speidel Bros. Chain. 1,740,894; Dec. 24.
- Johnson, Theodore, assignor to Johnson Metal Products Co., Erie, Pa. Filler and gauge for humidifying pans. 1,698,682; Jan. 8.
- Johnson, Theodore, assignor to Johnson Metal Products Co., Erie, Pa. Screen. 1,716,172; June 4.
- Johnson, Theodore, Erie, and P. G. Johnson, Wesleyville, Pa. Window screen. 1,698,885; Jan. 15.
- Johnson, Theodore C., Lexington, Nebr. Tractor-wheel attachment. 1,715,841; June 4.
- Johnson, Theodore G. (See Mitchell, Henry T., assignor.)
- Johnson, Thomas E. (See McKinney, Charles W., assignor.)
- Johnson, Thomas E., Toledo, Iowa. Chick protector. 1,719,768; July 2.
- Johnson, Thomas W., Stapleford, Noots, England, assignor, by mesne assignments, to Carr Fastener Company. Separable fastener. 1,711,459; Apr. 30.
- Johnson, Titian W., Potomac Beach, Va. Brief case or bag. 1,699,971; Jan. 22.
- Johnson, Tomlinson F., jr., Atlanta, Ga. Disconnecting air-break switch. 1,742,079; Dec. 31.
- Johnson, Tomlinson F., jr., Atlanta, Ga. Disconnecting air-break switch. 1,742,143; Dec. 31.
- Johnson, Tomlinson F., jr., Atlanta, Ga. Disconnecting air-break switch. 1,742,144; Dec. 31.
- Johnson & Turner Limited. (See Turner, Mark C., assignor.)
- Johnson, Victor, Pomeroy, Iowa. Controlling attachment for cultivators. 1,724,203; Aug. 13.
- Johnson, W. A., et al., trustees. (See Slater, Henry B., assignor.)
- Johnson, Waldo P., Chicago, Ill. Combination refrigerator and poultry car. 1,702,781; Feb. 19.
- Johnson, Walter G., New Orleans, La. Electric hair-pressing cap. 1,737,460; Nov. 26.
- Johnson, Walter J. O., assignor to The Albright Nell Company, Chicago, Ill. Sausage-twisting machine. 1,729,724; Oct. 1.
- Johnson, Walter S., Providence, R. I. Calculating machine. 1,700,057; Jan. 22.
- Johnson, Walter W., assignor, by mesne assignments, to The Marion Steam Shovel Company, Marion, Ohio. Electrical power unit. 1,700,534; Jan. 29.
- Johnson, Warren V., and R. C. Kepner, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,699,535; Jan. 22.
- Johnson Washer Company. (See Maus, Frank, assignor.)
- Johnson Washer Co. (See Schuyler, F. B., and Russell, assignors.)
- Johnson, Wilhelm, Detroit, Mich., and F. H. Cesander, Strandburg, S. Dak. Musical instrument. 1,721,865; July 23.
- Johnson, William. (See Henry, William C., assignor.)
- Johnson, William A., Berkeley, assignor of one-half to The Steel Products Corporation of California, and one-half to The Larkin Specialty Manufacturing Company, San Francisco, Calif. Container support. 1,708,579; Apr. 9.
- Johnson, William C., Minneapolis, Minn. Portable fireplace structure. 1,699,241; Jan. 15.
- Johnson, William E., assignor to Flexo-Drive Corporation, Chicago, Ill. Flexible automatic transmission. 1,727,467; Sept. 10.
- Johnson, William E., assignor to Flexo-Drive Corporation, Chicago, Ill. Automatic transmission. 1,727,603; Sept. 10.
- Johnson, William E., assignor to Flexo-Drive Corporation, Chicago, Ill. Automatic transmission. 1,727,885; Sept. 10.
- Johnson, William G., Milford, Mass. Bowling-ball cleaner. 1,714,958; May 28.
- Johnson, William K., Wichita, Kans., assignor by mesne assignments, to The Burbrook Company. Buttonhole-making guide. 1,727,776; Sept. 10.
- Johnson, William M., assignor to W. B. Marvin Manufacturing Company, Urbana, Ohio. Ventilator for automobile windows. 1,726,072; Aug. 27.
- Johnson, William M., assignor to the W. H. Marvin Company, Urbana, Ohio. Compartment jar. 1,736,264; Nov. 19.
- Johnson & Wright. (See Johnson, Enos H., assignor.)
- Johnson, Emil T., Chicago, Ill. Thermostatic temperature regulator. 1,720,792; July 16.
- Johnston, Alfred P., Winnipeg, Manitoba, Canada. Electrototype or engraver's planer. 1,708,097; Apr. 9.
- Johnston, Blaine. (See Johnston, James L., E. C., and B.)
- Johnston, Clarence L., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Automatic web-winding machine. 1,717,510; June 18.
- Johnston, Cyril F., Croydon, England. Carillon mechanism. 1,740,355; Dec. 17.
- Johnston, Edgar C. (See Johnston, James L., E. C., and B.)
- Johnston, Edgar C., assignor to Johnston Formation Testing Corporation, El Dorado, Ark. Well-formation-testing device. 1,709,940; Apr. 23.
- Johnston, Edward A., Chicago, Ill., assignor to International Harvester Company. Land packer. 1,705,294; Mar. 12.
- Johnston, Edward A., Chicago, Ill., assignor to International Harvester Company. Counterbalancing harvester platforms. 1,718,786; June 25.
- Johnston, Edward A., Chicago, Ill., assignor to International Harvester Company. Power-drive harrow attachment. 1,729,073; Sept. 24.
- Johnston, Edward A., D. B. Baker, and C. R. Hagen, assignors to International Harvester Company, Chicago, Ill. Cotton picker. 1,737,850; Dec. 3.
- Johnston, Edward A., Chicago, B. R. Benjamin, Oak Park, and G. M. Merwin, Berwyn, assignors to International Harvester Company, Chicago, Ill. Stubble shredder. 1,698,724; Jan. 15.
- Johnston, Edward A., Chicago, B. R. Benjamin, Oak Park, and D. B. Baker, Chicago, assignors to International Harvester Company, Chicago, Ill. Cotton picker. 1,727,708; Sept. 10.
- Johnston, Edward A., Chicago, B. R. Benjamin, Oak Park, and D. B. Baker, Chicago, assignors to International Harvester Company. Cotton picker. 1,727,709; Sept. 10.
- Johnston, Edward A., and S. W. Cady, assignors to International Harvester Company, Chicago, Ill. Grain-drill feed. 1,712,797; May 14.



- Johnston, Edward A., and F. G. Hodson, assignors to International Harvester Company, Chicago, Ill. Teat cup for milking machines. 1,712,798; May 14.
- Johnston, Ford, Dallas, Tex. Vehicle body mounting. 1,737,160; Nov. 26.
- Johnston Formation Testing Corporation. (See Johnston, Edgar C., assignor.)
- Johnston, Frank B., Roselle Park, N. J., assignor to American Safety Device Company, New York, N. Y. Scaffolding. 1,702,509; Feb. 19.
- Johnston, Frank B., Roselle Park, assignor to American Safety Device Company, New York, N. Y. Scaffolding. 1,724,713; Aug. 13.
- Johnston, Frank H., assignor, by mesne assignments, to Acme Card System Company, Chicago, Ill. Visible index. 1,698,406; Jan. 8.
- Johnston, Georgina A., Beverly Hills, Calif. Rotary built-in fixture. 1,736,007; Nov. 19.
- Johnston, Henry P., assignor to The Nusly, Brothers Company, Inc., Canton, Ohio. Vacuum cleaner for rugs. 1,715,199; May 28.
- Johnston, Herbert A. (See Doughty, G. A., and Johnston.)
- Johnston, Herbert L., assignor to The Hobart Manufacturing Co., Troy, Ohio. Apparatus for cutting foodstuffs. 1,709,912; Apr. 23.
- Johnston, Herbert L., assignor to The Hobart Manufacturing Company, Troy, Ohio. Apparatus for preparing foodstuffs. 1,724,598; Aug. 13.
- Johnston, Horace G., assignor to American Well and Prospecting Company, Corsicana, Tex. Well-tube-coupling mechanism. 1,700,291; Jan. 29.
- Johnston, Howard L., Forest Hills Borough, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic cut-out pulley. 1,712,768; May 14.
- Johnston, Howard M. (See Harris, B. S., and Johnston.)
- Johnston, James L., E. C., and B., Eldorado, Ark. Releasable valve. 1,715,504; June 4.
- Johnston & Jennings Company, The. (See Battenfeld, Jay L., assignor.)
- Johnston, John, London, England. Magnetic separator. 1,727,543; Sept. 10.
- Johnston, John, jr. (See Martin, A., and Johnston.)
- Johnston, John J., Vancouver, British Columbia, Canada, assignor to Johnston Tool Company, Vancouver, Canada. Saw frame. 1,734,212; Nov. 5.
- Johnston, John W., Rochester, N. Y. Coin tray. Des. 78,394; Apr. 30.
- Johnston, Lemuel M., and J. L. Farrell, Paco, Wyo. Method of and apparatus for purifying hydrocarbon oil. 1,706,614; Mar. 26.
- Johnston, Marie E., Chicago, Ill. Necktie. 1,724,659; Aug. 13.
- Johnston, Paul H., Davenport, Iowa. Eyeglass mounting. Des. 79,967; Nov. 26.
- Johnston, Robert M., Huntington, W. Va., assignor to Jeffery-Dewitt Company, Detroit, Mich. Insulator. 1,716,963; June 11.
- Johnston, Robert T., New Brunswick, N. J., assignor to The Flintkote Company, Boston, Mass. Method and apparatus for saturating fibrous material. 1,693,886; Jan. 15.
- Johnston Tool Company. (See Johnston, John J., assignor.)
- Johnston, Walter C., Newport, R. I., Watch fob, brooch, and the like. 1,722,423; July 30.
- Johnston, William, Honolulu, Hawaii. Aero vehicle. 1,714,561; May 28.
- Johnston, William D., Waco, Tex., assignor to Wm. Cameron & Co., Incorporated. Ironing-board cabinet. 1,706,235; Mar. 19.
- Johnston, William D., assignor to Wm. Cameron & Co., Inc., Waco, Tex. Telephone wall desk. 1,709,983; Apr. 23.
- Johnston, William D., assignor to Wm. Cameron & Co., Inc., Waco, Tex. Wall seat. 1,723,511; Aug. 6.
- Johnston, William G., assignor to C. B. Downs, Philadelphia, Pa. Oil-burning apparatus. 1,735,463; Nov. 12.
- Johnston, William L. (See Shepherd, J. A., and Johnston.)
- Johnston, William R., Omaha, Nebr. Paper-towel holder. 1,704,614; Mar. 5.
- Johnston, William R., assignor of one-half to A. Telich, Los Angeles, Calif. Automatic headlight mechanism. 1,704,615; Mar. 5.
- Johnston, Wilmer, Loveland, Colo. Swivel joint for pipes. 1,717,846; June 13.
- Johnstone, Robert M. (See Cameron, J. A., and Johnstone.)
- Johnstone, Robert M., Roselle Park, N. J., assignor to Cameron Machine Company, Brooklyn, N. Y. Safety device. 1,705,120; Mar. 12.
- Johnstown, Charles A., Perry, and J. I. Martin, Enid, Okla. Deep-well apparatus. 1,713,604; May 21.
- Joiner, Sylvester L., McGregor, Tex. Placard holder for tank cars. 1,720,276; July 9.
- Joire, Eli J., Green Bay, Wis. Jar carrier and top wrench. 1,720,517; July 9.
- Joksch, Rudolf, Vienna, Austria. Gripping device. 1,715,659; June 4.
- Jolley, Samuel L., Norwalk, Calif. Sucker-rod-joint lock. 1,741,720; Dec. 31.
- Jolly, James, Bolton, England. Opening machinery for textile fibers. 1,718,152; June 18.
- Jolly, Richard W., Wimbledon, London, assignor to British Electric Meters, Limited, London, England. Electrical switch. 1,739,596; Dec. 17.
- Jolly, Robert, et al. (See Taylor, Dewey L., assignor.)
- Jolly, W. Hugh, Florence, Ala. Electric toaster. 1,722,224; July 23.
- Jonas, Alexander, Philadelphia, Pa. Combined trousers and belt. 1,718,049; June 18.
- Jonas, Benjamin G., and F. C. Morrow, Wellston, Ohio. Vending apparatus. 1,712,886; May 14.
- Jonas, Jacob F., Bellevue, Ky., assignor to United Shoe Machinery Corporation, Paterson, N. J. Steel-seat fitting. 1,697,243; Jan. 1.
- Jonas, Jacob H., Los Angeles, Calif. Mattress. 1,730,771; Oct. 8.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrical rectifying system. 1,703,110; Feb. 26.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Apparatus for obtaining direct current from alternating current by means of polyphase rectifiers. 1,712,502; May 14.
- Jonas, Julius, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Synchronous rotating-field commutator machine. 1,716,494; June 11.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Device for establishing a tappable neutral point in three-phase networks. 1,719,843; July 9.
- Jonas, Julius, Baden, Switzerland, assignor of one-half to G. Hoffmann, Union Hill, N. J. Water-level indicator for high-pressure steam boilers. 1,723,512; Aug. 6.
- Jonas, Julius, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Rectification of polyphase electrical current. 1,728,283; Sept. 17.
- Joncha, Anton, assignor, to Oil Products Appliance Co., Maywood, Ill. Fill cap. 1,715,328; May 28.
- Jones, Albert, Baltimore, Md., assignor to himself, M. K. Heartfield, Washington, D. C., and J. M. Decker, Baltimore, Md. Refrigerating system. 1,736,703; Nov. 19.
- Jones, Albert F., Salem, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me. Machine for treating hides, skins, and leather. 1,704,196; Mar. 5.
- Jones, Albert L., and H. C. Ruschmeyer, assignors to L. J. Stone, New York, N. Y. Towel cabinet. 1,720,218; July 9.
- Jones, Albert R., Kansas City, Mo., assignor to Photostat Corporation, Providence, R. I. Sensitized-sheet holder photographic copying machines. 1,718,739; June 25.
- Jones, Alfred L., Green City, Mo. Antigorizing device for bulls. 1,705,220; Mar. 12.
- Jones, Allan H., Newark, N. J. Bolt, shaft, and the like. 1,708,793; Apr. 9.
- Jones, Andrew J. (See Gould, Richard H., assignor.)
- Jones, Arthur, assignor to U. S. Smelting Furnace Company, Belleville, Ill. Smelting furnace. 1,712,769; May 14.
- Jones, Arthur B., Plainfield, N. J., assignor to Industrial Associates, Incorporated, New York, N. Y. Obtaining heavy granular concentrates. 1,721,452; July 16.
- Jones, Arthur E. E. (See Pearce, George H., assignor.)
- Jones, Barbara E. (See Irsh, Jacob, assignor.)
- Jones, Barton, Los Angeles, Calif. Antisurge device. 1,722,469; July 30.
- Jones, Benjamin W. (See Carichoff, E. R., and Jones.)
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Electromagnetically-operated apparatus. 1,703,486; Feb. 26.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. System of motor control. 1,703,487; Feb. 26.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Power system. 1,706,119; Mar. 19.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Thermoelectrical timing control. 1,706,168; Mar. 19.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Selective-circuit-controlling system. 1,715,067; May 28.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Step-back motor-control system. 1,717,219; June 11.
- Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. System of motor control. 1,720,555; July 9.
- Jones, Benjamin W., Schenectady, and C. B. Connely, Ballston, N. Y., assignor to General Electric Company. Control for dynamo-electric machines. 1,706,169; Mar. 19.
- Jones, Benjamin W., Schenectady, and C. H. Chapman, Scotia, N. Y., assignors to General Electric Company. Circuit maker and interrupter. 1,724,840; Aug. 13.
- Jones, Bonnie, Wynona, Okla. Safety device. 1,711,735; May 7.
- Jones, Bradley, Winthrop Mass. Drift sight. 1,730,078; Oct. 1.
- Jones Brothers Company. (See Jones, Robert B., assignor.)
- Jones, Carol M., Colfax, Wash. Floor lamp. 1,719,013; July 2.
- Jones, Cecil R. (See Sherer, Ralph, assignor.)
- Jones, Charles D., Buffalo, N. Y. Thin matched material and making the same. 1,720,841; July 16.
- Jones, Charles E., Schenectady, N. Y., assignor to General Electric Company. Treatment of small metal-coated parts. 1,717,220; June 11.



- Jones, Charles E., Schenectady, N. Y., assignor to General Electric Company. Electroplating tank. 1,734,909; Nov. 5.
- Jones, Charles H., Providence, and E. R. Swanson, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass. Winding machine. 1,728,413; Sept. 17.
- Jones, Charles L., Pittsburgh, Pa. Electric switch. 1,740,307; Dec. 17.
- Jones, Charles R. (See Fisher, E. A., and Jones.)
- Jones, Charles W., Glen Ridge, N. J. Settee frame or similar article. Des. 78,929; July 9.
- Jones, Charles W., Glen Ridge, N. J. Chair frame or similar article. Des. 78,930; July 9.
- Jones, Charles W., Glen Ridge, N. J. Chair. Des. 78,931; July 9.
- Jones, Charles W., Glen Ridge, N. J., assignor to Sons-Cunningham Reed & Rattan Co. Inc., New York, N. Y. Settee frame or similar article. Des. 77,412; Jan. 8.
- Jones, Charles W., Glen Ridge, N. J., assignor to Sons-Cunningham Reed & Rattan Co. Inc., New York, N. Y. Chair frame. Des. 77,413; Jan. 8.
- Jones, Charles W., Glen Ridge, N. J., assignor to Sons-Cunningham Reed & Rattan Co. Inc., New York, N. Y. Chair frame. Des. 77,414; Jan. 8.
- Jones, Clayton, Duluth, Minn. Clip-attaching tool. 1,725,587; Aug. 20.
- Jones, David, Gorphwipfa, Tiresed, Glanamman, Wales. Bearing for rolling mills and the like. 1,735,319; Nov. 12.
- Jones, David O., Taft, Calif. Advertising device. 1,721,597; July 23.
- Jones, David R., Pittsburgh, Pa. Hose supporter. 1,733,020; Oct. 22.
- Jones, David W., Chicago, assignor to Flexo-Drive Corporation, Rockford, Ill. Automatic transmission. 1,727,985; Sept. 10.
- Jones, Deyo, assignor to General Sales Company, Detroit, Mich. Locomotive-rod-pin lubricator. 1,701,618; Feb. 12.
- Jones, E. D., & Sons Co. (See Feeley, Frank G., assignor.)
- Jones, Earl W. (See Jones, L. B., and Battin.)
- Jones, Earl W. (See Jones, Lee B., Jones, and Battin.)
- Jones, Earl W. and L. B., and R. G. Battin, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Valve mechanism. 1,722,799; July 30.
- Jones, Edward E., Wheeling, W. Va. Bank-protecting device. 1,714,267; May 21.
- Jones, Edward M., St. Louis, Mo. Incinerator-charging opening. 1,720,478; July 9.
- Jones, Edward P., Chester, England. Motor-car body. 1,734,213; Nov. 5.
- Jones, Edward P., Chester, England. Motor-car body. 1,734,214; Nov. 5.
- Jones, Edward R., Easton, Pa. Socket-cap remover. 1,715,089; May 28.
- Jones, Edward T., Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Master connecting rod for radial-cylinder engines. 1,723,175; Aug. 6.
- Jones, Edwin A., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Carburetor. 1,735,202; Nov. 12.
- Jones, Eli, Lexington, Tenn. Pipe-slotting machine. 1,701,208; Feb. 5.
- Jones, Elisha B., assignor of one-half to E. H. Waddington, Kansas City, Mo. Detachable washing apparatus. 1,740,097; Dec. 17.
- Jones, Elmer L. (See Gaffner, C. H., and Jones.)
- Jones, Elmer M., assignor to L. J. Elsas, Atlanta, Ga. Feeding device. 1,723,786; Aug. 6.
- Jones, Elmore D., et al. (See Power, Edward D., assignor.)
- Jones, Elzy J., San Antonio, Tex. Door lock. 1,715,926; June 4.
- Jones, Emil J., assignor to Jamestown Metal Desk Company, Inc., Jamestown, N. Y. Metal furniture. 1,716,274; June 4.
- Jones, Ernest F., Johannesburg, Transvaal, South Africa, assignor, by mesne assignments, to Demag Aktien-gesellschaft, Duisburg, Germany. Hammer drill. 1,715,842; June 4.
- Jones, Francis C. E., Hounslow, England. Relief-stamping press. 1,732,846; Oct. 22.
- Jones, Francis E., Royal Oak, Mich. Clothes steamer. 1,732,473; Oct. 22.
- Jones, Francis J. S., Porthcawl, Glamorgan, Wales. Liquid-fuel-supply device. 1,732,443; Oct. 22.
- Jones, Frank, assignor of one-half to J. L. D. Beeman, Roodhouse, Ill. Rail fastener. 1,700,635; Jan. 29.
- Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Mechanism and method for producing seamless reinforced hosiery. 1,718,932; June 25.
- Jones, Frank E., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Yarn-feeding means for knitting machines. 1,733,665; Oct. 29.
- Jones, Frank S., Philadelphia, Pa. Metal-cutting machine. 1,697,067; Jan. 1.
- Jones, Fred E. (See Blackmore, L., and Jones.)
- Jones, Fred E., Detroit, and M. W. McConkey, Ferndale, assignors to General Motors Corporation, Detroit, Mich. Brake. 1,714,911; May 28.
- Jones, Fred P. (See Piquet, Henri, assignor.)
- Jones, Frederick W. (See Bigland, Reuben, assignor.)
- Jones, George A., Sedro Woolley, Wash. Stanchion halter. 1,727,290; Sept. 3.
- Jones, George A., assignor to Shoe Products, Inc., Lynn, Mass. Shoe. 1,741,419; Dec. 31.
- Jones, George B., Los Angeles, Calif. Flush valve. 1,724,940; Aug. 20.
- Jones, Gordon F., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,735,116; Nov. 12.
- Jones, George H., Slaton, Tex. Automobile expense memorandum device. 1,729,512; Sept. 24.
- Jones, George T., Central Falls, assignor to Davis-Jones Insulated Wire Company, Pawtucket, R. I. Electrical conductor and making same. 1,702,652; Feb. 19.
- Jones, George T. and R. P. Bozeman, Mont. Shocking machine. 1,701,042; Feb. 5.
- Jones, George W., Larchmont, N. Y., and J. MacInnes, Dumont, N. J., assignors to Wm. C. Jones Envelope Co., Inc., New York, N. Y. Sheet feeding and gumming mechanism. 1,715,760; June 4.
- Jones, George W., and H. D. Roberson, assignors to Wachusetts Shirt Company, Leominster, Mass. Soft collar. 1,709,221; Apr. 16.
- Jones, Gordon F., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-inter-rupter tripping system. 1,715,708; June 4.
- Jones, Griffith, assignor of one-half to H. G. Neely and one-half to W. H. Forse, jr., Anderson, Ind. Practice keyboard. 1,735,577; Nov. 12.
- Jones, Grinnell, Cambridge, Mass. Method and apparatus for effecting chemical reactions. 1,699,070; Jan. 15.
- Jones, Gustaf E., Jamestown, N. Y. Support hook. 1,728,613; Sept. 17.
- Jones, Harry W., St. Louis, Mo., assignor to Sanford Investment Corporation, Knoxville, Tenn. Journal box and axle. 1,720,077; July 9.
- Jones, Herman, Cleveland, Ohio, assignor to A C Spark Plug Company, Flint, Mich. Odometer reset. 1,705,018; Mar. 12.
- Jones, Homer W., Jackson Heights, N. Y., assignor to National Carbon Company, Inc. Display device. 1,701,236; Feb. 5.
- Jones, Homer W., and R. R. Smith, Jackson Heights, N. Y., assignors to National Carbon Company, Inc. Electric signal lamp. 1,732,970; Oct. 22.
- Jones, Howard B., Evanston, Ill. Electrical plug and socket connection. 1,738,709; Dec. 10.
- Jones, Howard B., Evanston, Ill. Identifying cabled wires. 1,738,710; Dec. 10.
- Jones, Howard B., Evanston, Ill. Multiple-connection device. 1,738,711; Dec. 10.
- Jones, Howard C., et al. (See Mancib, Alvin S., assignor.)
- Jones, Howard F., Warrenton, N. C. Combined gauge and sediment remover. 1,705,121; Mar. 12.
- Jones, Howard R., Philadelphia, Pa. Dental appliance. 1,742,080; Dec. 31.
- Jones, J. T. Herriman, Houston, Tex. Building structure. 1,708,418; Apr. 9.
- Jones, Jack, and W. Derwin, Spondon, near Derby, England, assignors to Celanese Corporation of America. Knitting machine. 1,726,568; Sept. 3.
- Jones, James E., Richmond, Ind. Roller-bearing pipe carrier. 1,713,284; May 14.
- Jones, James E., Chicago, Ill. Floor plate. 1,738,829; Dec. 10.
- Jones, James H., Cleveland, Ohio. Washing machine. 1,722,470; July 30.
- Jones, James H., and K. C. Cleveland, Ohio. Outlet valve for washing-machine casings. 1,699,109; Jan. 15.
- Jones, James M., Manchester, Ky. Carbide lamp. 1,714,912; May 28.
- Jones, James R., Johnstown, Pa. Mold and making the same. 1,712,438; May 7.
- Jones, James R., assignor to Art Metal Construction Company, Jamestown, N. Y. Progressive roller suspension. 1,705,571; Mar. 19.
- Jones, John, Wilkes-Barre, Pa. Arch-supporting shoe. 1,722,049; July 23.
- Jones, John B., Throop, Pa. Game apparatus. 1,718,740; June 25.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Coating apparatus. 1,711,948; May 7.
- Jones, John W., jr., Chicago, Ill., assignor to International Harvester Company. Stock-ejecting device for punch presses. 1,712,799; May 14.
- Jones, Joseph W., New York, N. Y. Refrigerating apparatus. 1,698,440; Jan. 8.
- Jones, Joseph W., Flint, assignor to General Motors Corporation, Detroit, Mich. Gasoline filter. 1,705,019; Mar. 12.
- Jones, Kenneth C. (See Jones, James H. and K. C.)
- Jones, Kenneth C., Cleveland, Ohio. Cleaning machine. 1,737,115; Nov. 26.
- Jones, L. S. (See Lewis, C. B., and Vogel, assignors.)
- Jones, L. W., Tool Company. (See Jones, Louis W., assignor.)
- Jones Labron P., assignor of two-fifths to W. T. Storey, Calhoun Falls, and one-fifth to J. M. Nickles, Abbeville, S. C. Spoon for stop-motion mechanism. 1,722,424; July 30.
- Jones & Lamson Machine Company. (See Beardsley, Robert O., assignor.)
- Jones & Lamson Machine Company. (See Flanders, Ralph E., assignor.)
- Jones & Lamson Machine Company. (See Flanders, R. E., and Beardsley, assignors.)



- Jones & Lamson Machine Company. (See Lovely, John E., assignor.)
- Jones & Lamson Machine Company. (See Perry, George A., assignor.)
- Jones & Lamson Machine Company. (See Porter, R. W., and Beardsley, assignors.)
- Jones & Laughlin Steel Corporation. (See Free, John W., assignor.)
- Jones & Laughlin Steel Corporation. (See Rendleman, Norman C., assignor.)
- Jones & Laughlin Steel Corporation. (See Seibert, Frank T., assignor.)
- Jones, Lawrence, Jr., assignor to Peerless Manufacturing Company, Louisville, Ky. Fireplace damper. 1,734,013; Oct. 29.
- Jones, Lee B. (See Jones, Earl W. and L. B., and Battin.)
- Jones, Lee B., assignor to Sunbeam Electric Manufacturing Company, Evansville, Ind. Detachable end frame for engines. 1,722,798; July 30.
- Jones, Lee B. and E. W., and R. G. Battin, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Rotating assembly. 1,722,800; July 30.
- Jones, Lee B., E. W. Jones, and R. G. Battin, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Electric system. 1,737,722; Dec. 3.
- Jones, Lem B. (See Sizemore, J. M., Jones, and Sizemore.)
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,711,468; Apr. 30.
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Method and apparatus for centrifugal treatment of substances. 1,711,533; May 7.
- Jones, Leo D., assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,733,266; Oct. 29.
- Jones, Leo D., and A. U. Ayres, assignors to The Sharples Specialty Company, Philadelphia, Pa. Centrifuge bowl. 1,708,543; Apr. 9.
- Jones, Lester L., Oradell, N. J. Variable air condenser. 1,704,004; Mar. 5.
- Jones, Lester L., Oradell, N. J. Tuned radio frequency amplifying systems. 1,712,214; May 7.
- Jones, Lester L., Oradell, N. J. Antenna loop. 1,712,215; May 7.
- Jones, Lester L., Oradell, N. J. Controlling energy feed back in electron-discharge devices. 1,713,130; May 14.
- Jones, Lester L., Oradell, N. J. Electron-discharge-tube amplifier system. 1,713,131; May 14.
- Jones, Lester L., Oradell, N. J. Radio-frequency amplifying system. 1,713,132; May 14.
- Jones, Lester L., Oradell, N. J. Assembling bearings. 1,714,268; May 21.
- Jones, Lester L., Oradell, N. J. Coupling apparatus. 1,714,269; May 21.
- Jones, Lester L., Oradell, N. J. Transformer and coil system. 1,732,937; Oct. 22.
- Jones, Lester L., Oradell, N. J., and C. Hardy, assignors to Amco Products Inc., New York, N. Y. Variable air condenser. 1,706,735; Mar. 26.
- Jones, Lewis, Youngstown, Ohio. Vacuum lifter. 1,705,221; Mar. 12.
- Jones, Llewellyn, North Bend, Oreg. Sign and display holder. 1,715,602; June 4.
- Jones, Llewellyn J. W., Tacoma, assignor to J. F. O'Brien, Seattle, Wash. Rendering explosives nondeliquescent. 1,706,668; Mar. 26.
- Jones, Lloyd, Long Beach, N. Y. Bearing for the rolls of rolling mills. 1,736,601; Nov. 19.
- Jones, Lloyd, Freeport, N. Y., assignor to The Columbus Machine Company, Columbus, Ohio. Making valve castings. 1,733,226; Oct. 29.
- Jones, Lloyd E., Santa Monica, Calif. Fruit washer. 1,697,601; Jan. 1.
- Jones, Louis C., Greenwich, Conn., C. C. Loomis, Yonkers, N. Y., and H. W. Banks, 3d, Noroton, Conn.; said Loomis and said Banks assignors to said Jones. Making water paste of bituminous materials. 1,699,536; Jan. 22.
- Jones, Louis C., Greenwich, Conn., C. C. Loomis, Yonkers, N. Y., and H. W. Banks, 3d, Noroton, Conn.; said Loomis and said Banks assignors to said Jones. Making bituminous emulsions. 1,699,537; Jan. 22.
- Jones, Louis S., G. W. Fisher, and C. G. Henrikson, assignors, by mesne assignments, to The National Title Company, Anderson, Ind. Machine for treating tile. 1,699,972; Jan. 22.
- Jones, Louis S., G. W. Fisher, C. G. Henrikson, and N. C. Butler, assignors, by mesne assignments, to The National Title Company, Anderson, Ind. Machine for mounting tile. 1,724,764; Aug. 13.
- Jones, Louis W., New York, N. Y., assignor to L. W. Jones Tool Company, Incorporated, Workbench. 1,726,898; Sept. 3.
- Jones, Lyman L., Seattle, Wash., assignor to American Can Company, New York, N. Y. Solder replenisher. 1,725,960; Aug. 27.
- Jones & Manter. (See Mancib, Alvin S.)
- Jones, Marion R., Framingham, Mass. Garment. 1,731,137; Oct. 8.
- Jones, Mark W., Philadelphia, Pa. Ventilator and temperature equalizer. 1,732,938; Oct. 22.
- Jones, Michael D., Allentown, assignor to Fuller-Lehigh Company, Fullerton, Pa. Drier. 1,709,351; Apr. 16.
- Jones, Michael J., Little Rock, Ark. Automatic boiler-feed regulator. 1,730,275; Oct. 1.
- Jones, Mortimer, Fort Worth, Tex. Down-draft kiln. 1,733,488; Oct. 29.
- Jones, Norman C. (See Hodgson, A. E., and Jones.)
- Jones, Otis A., San Jose, Ill. Combination switch. 1,712,563; May 14.
- Jones, Otis V., Insull, Ky. Churn. 1,725,643; Aug. 20.
- Jones, Paul, Colony, Okla. Bottle-opening device. 1,709,669; Apr. 16.
- Jones, Paul, assignor to Commonwealth Shoe & Leather Company, Whitman, Mass. Shoe heel. 1,740,655; Dec. 24.
- Jones, Paul C., Cuyahoga Falls, Ohio assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and preserving rubber. 1,741,778; Dec. 31.
- Jones, Paul W. (See Burnham, L. F., and Jones.)
- Jones, Percival W., Pawtuxet, assignor to Rosenheim Co. Inc., Providence, R. I. Clasp. 1,700,679; Jan. 29.
- Jones, Percival W., Pawtuxet, assignor to Rosenheim Co. Inc., Providence, R. I. Wrist-watch band. 1,713,533; May 21.
- Jones, Percival W., Warwick, assignor to Rosenheim Co. Inc., Providence, R. I. Chain. 1,712,564; May 14.
- Jones, Percival W., Warwick, assignor to Rosenheim Co. Inc., Providence, R. I. Clasp. 1,737,246; Nov. 26.
- Jones, Percival W., Warwick, assignor to Rosenheim Co. Inc., Providence, R. I. Extension device. 1,739,464; Dec. 10.
- Jones, Percival W., Warwick, assignor to Rosenheim Co. Inc., Providence, R. I. Extension device. 1,739,676; Dec. 17.
- Jones, Percy L., Medford, Mass. Water-vapor-supply device for fuel charges of internal-combustion engines. 1,738,904; Dec. 10.
- Jones, Ralph E., Camp Meade, Md. Necktie holder. 1,707,860; Apr. 2.
- Jones, Ralph P. (See Jones, George T. and R. P.)
- Jones, Ralph R., Lake Forest, Ill. Basket-ball bank. 1,702,510; Feb. 19.
- Jones, Raymond B. (See Lindsay, Roy W., assignor.)
- Jones, Reginald L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Optical inspection system. 1,722,751; July 30.
- Jones, Richard E., assignor to Victor Cooler Door Company, Inc., Hagerstown, Md. Fastener. 1,705,122; Mar. 12.
- Jones, Richard E., and O. F. Baltzley, assignors to Victor Cooler Door Company, Hagerstown, Md. Track-door-lifting device. 1,732,164; Oct. 15.
- Jones, Robert B., Barre, Vt., assignor to Jones Brothers Company, Boston, Mass. Apparatus for grinding corrugated rolls and bedplates. 1,707,555; Apr. 2.
- Jones, Robert C., New York, N. Y. Combined rapid drier and stretcher. 1,707,015; Mar. 26.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Multistage open heater. 1,715,456; June 4.
- Jones, Russell C., Bronxville, assignor to The Griscom-Russell Company, New York, N. Y. Multistage open heater. 1,715,457; June 4.
- Jones, Samuel C., Atlantic City, N. J. Envelope. 1,741,059; Dec. 24.
- Jones, Theodore E., Sequim, Wash. Snap connection. 1,719,662; July 2.
- Jones, Thomas. (See Duhamel, Francois X. A., assignor.)
- Jones, Thomas. (See Spencer, F. L., and Jones.)
- Jones, Thomas H., Nottingham, England. Circular loom and the production of fabrics thereon. 1,723,426; Aug. 6.
- Jones, Thomas M., Garden City, Kans. Ditch check. 1,713,605; May 21.
- Jones, Thomas S., Newport, England. Dynamo-electric machine. 1,720,731; July 16.
- Jones, Timmie J., Moorhead, Miss. Sanitary towel-service vending machine. 1,741,572; Dec. 31.
- Jones, Vess, New York, N. Y. Bottle carrier. 1,705,061; Mar. 12.
- Jones, Vincent L. (See Bean, W. L., and Jones.)
- Jones, Vincent L., New Haven, Conn., assignor to McClellon Locomotive Boiler Company, Boston, Mass. Boiler. 1,706,357; Mar. 19.
- Jones, Virgil O., Decatur, assignor of one-half to W. C. Jones, Niantic, Ill. Water heater or boiler. 1,734,490; Nov. 5.
- Jones, Vitus G., et al., trustees. (See Cole, George W., assignor.)
- Jones, Vitus G., trustee. (See Cole, G. W., and Davis, assignors.)
- Jones, W. A., Foundry & Machine Company. (See Jones, W. G., and Hoge, assignors.)
- Jones, Walter C., Jr., executor. (See Jones, Walter C.)
- Jones, Walter C., deceased, Evanston, Ill.; W. C. Jones, Jr., executor. Steel lumber. 1,700,113; Jan. 22.
- Jones, Walter C., deceased, Evanston, Ill.; W. C. Jones, Jr., executor. Steel lumber. 1,701,303; Feb. 5.
- Jones, Walter C., deceased, Evanston, Ill.; W. C. Jones, Jr., executor. Steel lumber. 1,701,304; Feb. 5.
- Jones, Warren C., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound reproducer. 1,717,158; June 11.
- Jones, Warren C., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tactual interpretation of vibrations. 1,733,605; Oct. 29.
- Jones, Warren G., and F. H. Hoge, assignors to W. A. Jones Foundry & Machine Company, Chicago, Ill. Speed reducer and the like. 1,719,935; July 9.



- Jones, Wesley E., Jacksonville, Fla. Hose holder. 1,704,363; Mar. 5.
- Jones, William. (See Murphy, A., and Jones.)
- Jones, William, Topeka, Kans. Crossing signal. 1,733,884; Oct. 29.
- Jones, William A., West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economizer. 1,704,132; Mar. 5.
- Jones, William A., West New Brighton, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Drum connection joint. 1,715,068; May 28.
- Jones, William B. (See Bracken, William A., assignor.)
- Jones, William C. (See Jones, Virgil O., assignor.)
- Jones, Wm. C., Envelope C. (See Jones, G. W., and MacInnes, assignors.)
- Jones, William H., Wallasey, England. Guard apparatus for power presses. 1,733,227; Oct. 29.
- Jones, William M., jr., Rochester, N. Y. Steering axle. 1,738,585; Dec. 10.
- Jones, William O., Baltimore, Md. Binding strip. 1,721,629; July 23.
- Jones, William T., Newtonville, Mass., assignor to Barnes & Jones. Valve. 1,738,248; Dec. 3.
- Jones, William W., jr., Los Angeles, Calif. Welder's tongs. 1,727,986; Sept. 10.
- Jones, William W., and A. C. Jaus, Philadelphia, Pa. Flat-wash folder. 1,697,010; Jan. 1.
- Jones, Winfield S., Brea, and H. U. Baker, Los Angeles Calif. Overshot. 1,734,468; Nov. 5.
- Jongedyk, Ralph, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article-handling device. 1,720,732; July 16.
- Jonsens, Edward J. (See Abrahams, A. I., and Jonsens.)
- Jonsson, Anders J., Linköping, Sweden. Capping machine. 1,723,549; Aug. 6.
- Jonsson, Sven M., Woodside, assignor to Automotive Royalties Corporation, Inc., New York, N. Y. Lubricating device. 1,736,160; Nov. 19.
- Jo Pet, Inc. (See Petty, John, assignor.)
- Joplin, William A. (See Claff, M. B., and Joplin.)
- Joplin, William A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton-sealing machine. 1,720,733; July 16.
- Jordahl, Anders, New York, N. Y. Air and gas filters. 1,738,249; Dec. 3.
- Jordahl, Anders, and K. G. Runback, deceased; H. Runback, administratrix, assignors to Midwest Steel & Supply Co. Inc., New York, N. Y. Filter. 1,708,065; Apr. 9.
- Jordan, Alfred E., Murray, and N. Baldwin, East Mill Creek, Utah. Loud-speaker. 1,738,955; Dec. 10.
- Jordan, Frances, Incorporated. (See Jordan, Marian W., assignor.)
- Jordan, Frank L., Weeks, La. Protecting device for automobile fenders. 1,704,048; Mar. 5.
- Jordan, Frank N., Boston, Mass. Drawbar coupling. 1,702,830; Feb. 19.
- Jordan, Franz, Wickede-on-the-Ruhr, Germany. Uniting metallicly the seams of aluminum-plated sheet iron, and vessel manufactured after this method. 1,699,434; Jan. 15.
- Jordan, Hans. (See Schoeller, W., and Jordan.)
- Jordan, Hans. (See Schoeller, W., Jordan, and Clerc.)
- Jordan, Hans, Berlin-Steglitz, W. Schoeller, Berlin-West-end, and R. Clerc, assignors to the firm: Chemische Fabrik auf Actien vorm. E. Schering, Berlin, Germany. Production of menthol. 1,706,784; Mar. 26.
- Jordan, Hans, Karlshorst-Berlin, Germany, assignor to General Electric Company. Telephone cable. 1,733,063; Oct. 22.
- Jordan, Hans, Karlshorst, Berlin, Germany, assignor to General Electric Company. Electrical conductor. 1,740,403; Dec. 17.
- Jordan, Henry. (See Hitch, E. F., and Jordan.)
- Jordan, Henry. (See Hitch, E. F., Jordan, and Bradley.)
- Jordan, Henry, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blue tetrakisazo dyes for cotton and making same. 1,712,732; May 14.
- Jordan, Henry, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of trisazo dyes. 1,716,063; June 4.
- Jordan, Henry, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Orange to brown disazo dyes and preparing same. 1,724,660; Aug. 13.
- Jordan, Henry, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. New diazo dyes. 1,724,663; Aug. 13.
- Jordan, Howell, Pacific Beach, Calif. Scissors. 1,718,907; June 25.
- Jordan, Hugh A. (See Dodge, M. L., and Jordan.)
- Jordan, Ira C., Chicago, Ill. Coal pusher. 1,708,507; Apr. 9.
- Jordan, Lawrence W., assignor, by mesne assignments, to Winchester Repeating Arms Company, New Haven, Conn. Binder for priming compounds. 1,718,358; June 25.
- Jordan, Marian W., Los Angeles, Calif., assignor to Frances Jordan, Incorporated, Philadelphia, Pa. Massage device. 1,731,900; Oct. 15.
- Jordan, O. F., Company. (See Curtis, John F., assignor.)
- Jordan, O. F., Company. (See Protzeller, Harry W., assignor.)
- Jordan, O. F., Company. (See Reid, Joseph G., assignor.)
- Jordan, O. F., Company. (See Tellis, Vsevolod G., assignor.)
- Jordan, Okey J., Weippe, Idaho. Self-serving table. 1,731,308; Oct. 15.
- Jordan, Paul, Berlin-Steglitz, Germany. Insulated wire for electric installation. 1,707,808; Apr. 2.
- Jordan, Paul R., Indianapolis, Ind. Exhaust ventilator. 1,726,959; Sept. 3.
- Jordan, Roy E., Newark, N. J., assignor to The Mosaic Tile Company. Receptacle for sheet toilet paper. 1,723,734; Aug. 6.
- Jordan, William, and C. S. Nichols, Lancaster, Nebr. Aeroplane. 1,709,402; Apr. 16.
- Jordao, Alfredo, jr., Sao Paulo, Brazil. Pumping unit. 1,739,000; Dec. 10.
- Jordhoy, Hans C. (See Tornberg, I., and Jordhoy.)
- Jordhoy, Hans C., North Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Three-roll ink motion. 1,703,887; Mar. 5.
- Jordhoy, Hans C., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Center-margin plate lockup. 1,726,836; Sept. 3.
- Jordhoy, Hans C., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Plate-locking device. 1,734,093; Nov. 5.
- Jordhoy, Hans C., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Adjustable folder unit. 1,739,398; Dec. 10.
- Jording, Christian H., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Lamp-bulb socket. 1,717,566; June 18.
- Jording, Christian H., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Headlamp for motor vehicles. 1,726,837; Sept. 3.
- Jörg, Paul. (See Hoffa, E., and Jörg.)
- Jørgensen, A., & Co. (See Jørgensen, Axel, assignor.)
- Jørgensen, Aage K., and G. Petry, Oakland, Calif. Library-stack-supporting structure. 1,729,743; Oct. 1.
- Jørgensen, Axel, assignor to A. Jørgensen & Co., Copenhagen, Denmark. Machine for automatic cutting of recesses or the like in straight or curved direction on surfaces. 1,739,465; Dec. 10.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-positioning means. 1,704,835; Mar. 12.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,710,735; Apr. 30.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting mechanism. 1,719,296; July 2.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. 1,720,219; July 9.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers. 1,721,736; July 22.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,722,499; July 30.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for use in the manufacture of shoes. 1,737,012; Nov. 26.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material from boots and shoes. 1,738,584; Dec. 10.
- Jørgensen, Clarence H. (See Jørgensen, Peter J. and C. H.)
- Jørgensen, Frederick L., Cleveland, Ohio. Air-treatment apparatus for hay fever, etc. 1,712,272; May 7.
- Jørgensen, Jacob C., Beverly, and T. H. Seely, Melrose, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,722,500; July 30.
- Jørgensen, Olaf E., Forest Hills, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,704,478; Mar. 5.
- Jørgensen, Peter J. and C. H., Chicago, Ill. Internal-combustion engine. 1,701,779; Feb. 12.
- Jørgensen, Thorleif B., Chicago, Ill. Sled. 1,718,787; June 25.
- Jorgenson, Peter A., Watertown, S. Dak. Potato cutter. 1,710,421; Apr. 23.
- Jørgensen, Edgar H. H., Elsinore, Denmark. Cock, valve, and the like. 1,714,374; May 21.
- Jorjorian, Bedros, et al. (See Jorjorian, Hagop and P. D., assignors.)
- Jorjorian, Hagop and P. D., Cranston, assignors of one-fourth to O. Jorjorian and one-fourth to B. Jorjorian, Providence, R. I. Pipe-bowl cleaner. 1,718,237; June 25.
- Jorjorian, Oscar, et al. (See Jorjorian, Hagop and P. D., assignors.)
- Jorjorian, Paul D. (See Jorjorian, Hagop and P. D.)
- Jose, Daisy B., Leedey, Okla. Auxiliary spool holder for sewing machines. 1,741,632; Dec. 31.
- Joseph, Eugene H. (See Nelson, T. J., and Joseph.)
- Joseph, Felix A., London, England. Clutch and the like. 1,718,359; June 25.
- Joseph, Harold B., San Francisco, Calif. Radiator-cap ornament. Des. 78,467; May 7.
- Joseph Harrison O. (See Wolfe, Ernest E., assignor.)
- Joseph, Henry, Rhineland, Wis. Folded napkin. 1,727,064; Sept. 3.
- Joseph, Herschel V., Canon City, Colo. Woodworking machine. 1,736,916; Nov. 26.



- Joseph, Jesse M., Cincinnati, Ohio. Garden tool. 1,724,026; Aug. 13.
- Joseph, Joseph, London, England. Ottoman, settee, under-bed wardrobe, and the like. 1,733,411; Oct. 29.
- Joseph, Norbert G. (See Pease, O. E., and Joseph.)
- Joseph, Paul E., assignor to Chicago Lumber Company of Washington, Oakland, Calif. Concealable ironing board. 1,706,170; Mar. 19.
- Joseph, William C., Fort Worth, Tex. Fastening device for floor coverings. 1,711,149; Apr. 30.
- Josephs, Ivan. (See Jung, Heinrich, assignor.)
- Josephs, Lyman C., jr., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Hot-water heater for the interior of vehicle bodies. 1,708,140; Apr. 9.
- Josephson Bag Company, The. (See Josephson, Harry, assignor.)
- Josephson, Harry, assignor of one-half to The Josephson Bag Company, Bridgeport, Conn. Furniture spring. 1,728,289; Sept. 17.
- Josephson, Helmer G., et al, trustees. (See Josephson, Helmer G., assignor.)
- Josephson, Helmer G., et al, trustees. (See Sorenson, John E., assignor.)
- Josephson, Helmer G., Saugus, Mass., assignor to J. L. Shevenell and H. G. Josephson, trustees, Massachusetts. Shoe shank. 1,705,976; Mar. 19.
- Josephson, Helmer G., Saugus, Mass., assignor to John L. Shevenell and H. G. Josephson, trustees. Shoe shank. 1,712,350; May 7.
- Joslin, Charles A., North Attleboro, Mass. Carving fork or similar article. Des. 78,932; July 9.
- Joslin, Charles T., Feura Bush, N. Y. Lamp. Des. 79,086; July 30.
- Joslin, Lawrence S., Braintree, Mass. Garage. 1,721,453; July 16.
- Jost, Albert, Yonkers, N. Y. Combined chair or sofa and table. 1,726,109; Aug. 27.
- Joubert, Jacobus. (See Lateur, Gaston, assignor.)
- Joughin, Eva M. (See Joughins, G. R., and Joughin.)
- Joughin, James L., administrator. (See Joughins, G. R. and E. M.)
- Joughins, George R., Elizabeth, N. J. Railway box freight car. 1,710,987; Apr. 30.
- Joughins, George R., and E. M. Joughin, deceased, New York, N. Y.; J. L. Joughin, administrator. Freight-car roof. 1,703,149; Feb. 26.
- Journal-Box Servicing Corporation. (See Potter, T. W., McNamara, Lammers, and McLavy, assignors.)
- Journey, James, administrator. (See Journey, William O.)
- Journey, William O., Houston, Tex., deceased; J. Journey, administrator. Drill bit. 1,734,469; Nov. 5.
- Journey, Clarence E., Los Angeles, Calif. Life-saving device. 1,704,197; Mar. 5.
- Jowett, Edwin, Kansas City, Mo., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid heater. 1,728,733; Sept. 17.
- Jowett, Percy, and M. C. Marsh, Leeds, assignors to The British Research Association for the Woolen and Worsted Industries, Torridon, Leeds, England. Ring-spinning frame for woolsens. 1,728,414; Sept. 17.
- Jowitt, Samuel G., York, England. Wringer, mangle, or like machine. 1,704,569; Mar. 5.
- Joy, Charles H., sr. (See Sauer, L. J., and Joy, assignors.)
- Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Truck for articulated cars. 1,727,649; Sept. 10.
- Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Articulated car. 1,727,710; Sept. 10.
- Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Articulated car. 1,727,711; Sept. 10.
- Joy, Robert W., Brooklyn, assignor to American Car and Foundry Company, New York, N. Y. Articulated car. 1,727,712; Sept. 10.
- Joyce, Bryan P., Davenport, Iowa. Pressure-fluid packing. 1,721,737; July 23.
- Joyce, Bryan P., Davenport, Iowa. Diaphragm assembly. 1,732,052; Oct. 15.
- Joyce, Bryan P., Davenport, Iowa. Container for pressure fluids. 1,732,235; Oct. 22.
- Joyce, Bryan P., and C. V. Lorrain, Davenport, Iowa; said Lorrain assignor to said Joyce. Metallic packing for a fluid under pressure. 1,700,894; Feb. 5.
- Joyce-Cridland Company, The. (See Hott, Ion V. K., assignor.)
- Joyce-Cridland Company, The. (See Dawley, James C., assignor.)
- Joyce-Cridland Company, The. (See Dawley, J. C., and Hott, assignors.)
- Joyce-Cridland Company, The. (See Hott, I. V. K., and Spear, assignors.)
- Joyce, Edward J. (See Julius, Harold W., assignor.)
- Joyce, Elmer. (See Mason, Richard C., assignor.)
- Joyce, James D., Philadelphia, Pa. Attachment for bobbin winding machines. 1,735,349; Nov. 12.
- Joyce-Koebel Diamond Tool Department, Inc. (See Boman, Claes W., assignor.)
- Joyce, Richard F., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,709,854; Apr. 23.
- Joyce, Thomas H., Brooklyn, N. Y. Shoe-arch support. 1,698,635; Jan. 8.
- Joyner, Marjorie S., Chicago, Ill., assignor to The Madame C. J. Walker Manufacturing Company, Indianapolis, Ind. Scalp protector. 1,716,173; June 4.
- Joyse, Thomas, jr., Smokeless, Pa. First-aid kit. 1,727,235; Sept. 3.
- Jubien, Paul, and P. Naeher, Chicago, Ill.; said Jubien assignor to said Naeher. Gyrotory agitator. 1,733,373; Oct. 29.
- Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
- Jucho, Heinrich, Dortmund, Germany. Building structure. 1,702,406; Feb. 19.
- Judd, Arthur C., New York, N. Y. Rod-packing element. 1,716,524; June 11.
- Judd, H. L., Company. (See Dlouhy, August, assignor.)
- Judd, H. L., Company. (See Long, George M., assignor.)
- Judd, H. L., Company. (See Vermillion, Raymond H., assignor.)
- Judd, H. L., Company. (See Vroom, Robert D. H., assignor.)
- Judd, H. L., Company. (See Vroom, Robert D. W., assignor.)
- Judd, Irving H., Detroit, assignor to Whitehead & Kales Company, River Rouge, Mich. Clamp. 1,703,737; Feb. 26.
- Judd, Orion M., Fresno, Calif. Tire protector. 1,730,733; Oct. 8.
- Judd, Stanley L., New Britain, Conn. Humidor. 1,727,291; Sept. 3.
- Judell, Julius S., assignor to The Milwaukee Flush Valve Company, Milwaukee, Wis. Plumbing fixture. 1,704,198; Mar. 5.
- Judell, Julius S., and J. P. Bittel, assignors to The Milwaukee Flush Valve Company, Milwaukee, Wis. Faucet valve. 1,738,250; Dec. 3.
- Judell, Julius S., assignor to The Milwaukee Flush Valve Company, Milwaukee, Wis. Combination fixture. 1,741,521; Dec. 31.
- Judelson, Julius, New York, N. Y. Clothes drier. 1,700,439; Jan. 29.
- Judelson, Julius, New York, N. Y. Drier-rack-frame construction. 1,709,352; Apr. 16.
- Judelson, Julius, New York, N. Y. Electrically-heated drier. 1,720,678; July 16.
- Judelson, Louis, New York, N. Y. Clothes wringer. 1,726,301; Aug. 27.
- Judelson, Louis, New York, N. Y. Wall drier. 1,731,050; Oct. 8.
- Judson, Russell V., Detroit, Mich. Combined polishing and sorting machine. 1,699,331; Jan. 15.
- Judson, Russell V., Detroit, Mich. Grain-sorting machine. 1,703,342; Feb. 26.
- Judson, Russell V., Detroit, C. C. Davis, Fenton, Mich., and E. O. Klemm, Cicero, Ill. Radio receiving apparatus. 1,738,172; Dec. 3.
- Judson, Wilber, Gulf, Tex., assignor to Texas Gulf Sulphur Company, New York, N. Y. Mining of sulphur. 1,719,981; July 9.
- Juede, Walter, assignor to Theo. A. Kochs Company, Chicago, Ill. Handle. Des. 79,334; Sept. 3.
- Juede, Walter, assignor to Theo. A. Kochs Company, Chicago, Ill. Barber's pole. Des. 79,335; Sept. 3.
- Juengst, Charles A., Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn. Bookbinding machine. 1,731,818; Oct. 15.
- Juergens, Henry F., Providence, R. I. Making ornamental mountings. 1,713,285; May 14.
- Juergens, Winfred H. (See Armstrong, A. P., and Juergens.)
- Juers, John H., New York, N. Y. Variable resistance and system controlled thereby. 1,715,761; June 4.
- Juhasz Carburetor Corporation. (See Juhasz, John, assignor.)
- Juhasz, Elek B., Lebanon, Pa. Automatic concealed firearm for self-defense. 1,726,228; Aug. 27.
- Juhasz, John, New York, N. Y. Carburetor. 1,733,348; Oct. 29.
- Juhasz, John, assignor to Juhasz Carburetor Corporation, New York, N. Y. Carburetor. 1,728,415; Sept. 17.
- Jubel, Maurice, Meudon, France. Antioverflow device. 1,719,433; July 2.
- Julian, Gideon, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Treadle-actuated mechanism. 1,716,586; June 11.
- Julian Pump and Manufacturing Company. (See Cobb, Robert W., assignor.)
- Julien, Louis F. (See Smith, H. E., and Julien.)
- Julien, Robert P., Springfield, assignor of one-half to C. S. Murphy, Worcester, Mass. Comb for coloring or dyeing the hair. 1,707,665; Apr. 2.
- Julius, Harold W., assignor to E. J. Joyce, Chicago, Ill. Loose-leaf binder. 1,727,108; Sept. 3.
- Juliusburger, Josef, Berlin, Germany. Machine for untwisting and carding fibrous materials. 1,722,095; July 23.
- Juneau, Anna K., administratrix. (See Juneau, C. G., and Marshall.)
- Juneau, Charles G., Wauwatosa, and W. C. Marshall, Milwaukee, Wis. Refrigerator. 1,727,713; Sept. 10.
- Juneau, Charles G., deceased, by A. K. Juneau, administratrix, Wauwatosa, and W. C. Marshall, Milwaukee, Wis. Refrigerator. 1,727,777; Sept. 10.
- Juner, Thomas C. (See Peterson, J. W., and Juner.)



- Jung, Christiaan J. (See Versteeg, Hendrik J., assignor.)  
 Jung, Heinrich, Magdeburg, Germany, assignor to I. Josephs, New York, N. Y. Sauerkraut-cutting machine. 1,723,241; Aug. 6.  
 Jung, John M., Sioux City, Iowa. Machine for mixing eggs. 1,709,023; Apr. 16.  
 Jung, Karl, Berlin, Germany. Controlling device for machine tools, particularly grinding machines. 1,717,385; June 18.  
 Jung, Louis W., Chicago, Ill. (Book holder.) 1,730,371; Oct. 8.  
 Jung, Oscar H., assignor to Trico Fuse Mfg. Co., Milwaukee, Wis. Shoe lug. 1,701,952; Feb. 12.  
 Jung, Peter, Berlin-Neukolln, Germany. Agglomerating ore, mineral, or other matter, and the product produced thereby. 1,739,839; Dec. 17.  
 Jung, Richard G. (See Palmero, L. M., and Jung.)  
 Jung, Wilhelm. (See Hartmann, O. H., and Jung.)  
 Junge, Henry A., Grantwood, N. J. Measuring and dispensing device. 1,721,866; July 23.  
 Jungers, Clement, Sergeant, Pa. Rolled sheet glass. 1,718,824; June 25.  
 Junghans, Oskar, deceased, Schramberg, Germany; S. Junghans, administrator. Setting machine for time fuses. 1,724,484; Aug. 13.  
 Junghans, Siegfried, administrator. (See Junghans, Oskar.)  
 Jungk, Hugo, Erfurt, Germany. Sheet-feeding machine. 1,709,353; Apr. 16.  
 Jungmann, Leo, Offenbach-on-the-Main, Germany. Gas igniter. 1,702,653; Feb. 19.  
 Junker, Otto, Stolberg, Germany. Brass composition and producing the same. 1,699,665; Jan. 22.  
 Junker, Otto, Stolberg, Germany. Manufacturing metal sheets and strips. 1,701,889; Feb. 12.  
 Junker, Thomas J., Buffalo, N. Y. Game device. 1,716,275; June 4.  
 Junker, Thomas J., Buffalo, N. Y. Game. 1,733,606; Oct. 29.  
 Junkers, Adolf H., Rheydt, Germany. Process and apparatus for saturating yarn rolls with dyes. 1,701,780; Feb. 12.  
 Junkers, Hugo. (See Mader, Otto, assignor.)  
 Junkers, Hugo. (See Retschy, Curt, assignor.)  
 Junkers, Hugo, Dessau, Germany. Liquid-fuel pump. 1,699,194; Jan. 15.  
 Junkers, Hugo, Dessau, Germany. Start of flying machines. 1,703,488; Feb. 26.  
 Junkers, Hugo, Dessau, Germany. Internal-combustion engine and working same. 1,704,325; Mar. 5.  
 Junkers, Hugo, Dessau, Germany. Corrugated-sheet-metal shape. 1,704,326; Mar. 5.  
 Junkers, Hugo, Dessau, Germany. Fuel pump. 1,706,785; Mar. 26.  
 Junkers, Hugo, Dessau, Germany. Signaling and projecting images on aerial craft. 1,709,620; Apr. 16.  
 Junkers, Hugo, Dessau, Germany. Navigating aircraft. 1,709,621; Apr. 16.  
 Junkers, Hugo, Dessau, Germany. Runner for aircraft. 1,714,375; May 21.  
 Junkers, Hugo, Dessau, Germany. Internal-combustion engine. 1,722,425; July 30.  
 Junkers, Hugo, Dessau, Germany. Aviation motor. 1,729,042; Sept. 24.  
 Junkers, Hugo, Dessau, Germany. Distribution of pulverulent material from air craft. 1,732,406; Oct. 22.  
 Junkers, Hugo, Dessau, Germany. Assembling and repairing flying machines. 1,740,021; Dec. 17.  
 Junkin, John R., Sierra Madre, Calif. Multiple-wheel drive. 1,713,133; May 14.  
 Junkunc, John, Chicago, Ill. Padlock. 1,722,525; July 30.  
 Jupin, Michael, New Bedford, Mass. Gas burner for starting coal fires. 1,722,225; July 23.  
 Jupp, George E. See Lenz, C. S., and Jupp.)  
 Jupp, William B., Brooklyn, assignor to International Motor Company, New York, N. Y. Gas-line feed. 1,737,161; Nov. 26.  
 Juravcoff, Paul. (See Balzi, C., and Juravcoff.)  
 Jurgensen, August P., assignor to Concentric Air Cells Automatic Company, Philadelphia, Pa. Air-cell pipe covering. 1,732,018; Oct. 15.  
 Jurgensen, August P., assignor to Concentric Air Cells Automatic Company, Philadelphia, Pa. Making air-cell pipe covering. 1,735,684; Nov. 12.  
 Jurich, Peter G., Pasadena, Calif. Comb. 1,708,419; Apr. 9.  
 Jurkovski, Karl, Bemidji, Minn. Disintegrator. 1,733,489; Oct. 29.  
 Jurs, Peter C., San Francisco, Calif. Toy golf game. 1,732,518; Oct. 22.  
 Jury, Alfred E., Rutherford, N. J., assignor to Morgan & Wright, Detroit, Mich. Tire casing and its method of manufacture. 1,699,470; Jan. 15.  
 Jury, Frank W. (See Dav. P. C., and Jury.)  
 Jury, Walter H., Sausalito, Calif. Drapery cornice. 1,740,513; Dec. 24.  
 Just, E. Richard. (See Knox, Arthur S., assignor.)  
 Just, Fritz. (See Daimler, K., Balle, and Just.)  
 Just, Heinrich, and H. Kort, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus for guns. 1,722,923; July 30.  
 Justice, Archibald W., New York, N. Y. Paintbrush holder. 1,703,008; Feb. 19.  
 Justice, William N., assignor to The American Hammered Piston Ring Company, Baltimore, Md. Valve tester. 1,703,824; Feb. 26.  
 Justice, William V., and H. A. Stewart, Rossiter, Pa. Brake. 1,701,237; Feb. 5.  
 Justin, H. J., and Sons. (See Justin, John S., assignor.)  
 Justin, John S., assignor to H. J. Justin and Sons, Nocona, Tex. Boot tongue. 1,726,269; Aug. 27.  
 Justis, Andrew F., Chickasha, Okla. Mop. 1,709,622; Apr. 16.  
 Justrite Manufacturing Company. (See Raster, Walther, assignor.)  
 Justus, David E. (See Schenck, Eugene A., assignor.)  
 Justus, David E., Kansas City, Mo. Toilet seat. 1,739,001; Dec. 10.  
 Jutson, Robert P., Astoria, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Current-controlling device. 1,719,474; July 2.  
 Jutting, John, New Ulm, Minn. Cow's-tail holder. 1,698,816; Jan. 15.  
 Juul, Peter A., Chicago, Ill., assignor to Latham Machinery Company. Feed gauge. 1,701,158; Feb. 5.  
 Juul, Peter A., Chicago, Ill., assignor to Latham Machinery Company. Punching machine. 1,704,973; Mar. 12.  
 Juul, Peter A., Chicago, Ill., assignor to Latham Machinery Company. Punch machine. 1,736,855; Nov. 26.  
 Juul, Peter A., Chicago, Ill., assignor to Latham Machinery Company. Perforating machine. 1,737,851; Dec. 3.  
 Juvenile Wood Products, Inc., The. (See Muller, Gertrude A., assignor.)  
 K. & B. Company. (See Kirk, A., and Brierly, assignors.)  
 K-D Lamp Company, The. (See Lewis, George I., assignor.)  
 K. D. P. Limited. (See Hauser, Ernest A., assignor.)  
 K. F. B. Foundry Limited. (See Wiatt, Joseph P., assignor.)  
 K-P-C Company. (See Robinson, Sanford K., assignor.)  
 Kabler, Fred F. (See Bateman, Arthur R., assignor.)  
 Kabnick, Stuart, Philadelphia, Pa. Multiple ampul. 1,727,987; Sept. 10.  
 Kabushiki Kaisha Nihon Seikoshu. (See Makita, Soji, assignor.)  
 Kačer, Filip. (See Lüttringhaus, A., and Kačer.)  
 Kachel, Charles. (See Lewis, H. S., and Kachel.)  
 Kachel, Charles, Reiffton, assignor to Parish Pressed Steel Company, Reading, Pa. Lawn-mower cutter bar. 1,724,879; Aug. 13.  
 Kaczorowski, Bernard, assignor of one-half to M. Zielinski, Yonkers, N. Y. Automatic snow cleaning and melting machine. 1,718,360; June 25.  
 Kadar, Louis, assignor to Chicago, Railway Equipment Company, Chicago, Ill. Rail anchor. 1,705,295; Mar. 12.  
 Kadar, Louis, assignor to Chicago Railway Equipment Company, Chicago, Ill. Rail anchor. 1,716,723; June 11.  
 Kade, Friedrich, assignor, by mesne assignments, to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany. Compensated asynchronous motor. 1,703,533; Feb. 26.  
 Kade, Friedrich, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany. Compensated alternating-current motor. 1,712,669; May 14.  
 Kade, Friedrich, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany. Repulsion induction motor. 1,729,345; Sept. 24.  
 Kadel, Byers W. (See Barrows, D. S., and Kadel.)  
 Kadel, Byers W. (See Wine, W. E., and Kadel.)  
 Kadel, Byers W., Baltimore, Md. Railway car. 1,708,794; Apr. 9.  
 Kadel, Byers W., Baltimore, Md. Side frame. 1,710,624; Apr. 23.  
 Kadel, Byers W., Baltimore, Md. Car truck. 1,711,568; May 7.  
 Kadel, Byers W., Baltimore, Md. Car-door mechanism. 1,733,736; Oct. 29.  
 Kadel, Byers W., Baltimore, Md. Railway car. 1,737,927; Dec. 3.  
 Kadel, Byers W., Baltimore, Md. Car-door-locking device. 1,738,057; Dec. 3.  
 Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Side frame. 1,698,597; Jan. 8.  
 Kadel, Byers W., Baltimore, Md., assignor to The Symington Company, New York, N. Y. Side frame. 1,740,600; Dec. 24.  
 Kadel, Byers W., Baltimore, Md., and D. S. Barrows, Rochester, N. Y. Truck for railway rolling stock. 1,727,886; Sept. 10.  
 Kaden, Harry E., assignor to The Art Specialty Company, Cleveland, Ohio. Fixture element. 1,707,556; Apr. 2.  
 Kaden, Max, New Britain, Conn. Security chain. 1,715,295; May 28.  
 Kading, Carl L. (See Wilson, Maximus L., assignor.)  
 Kadlec, Wenzl J., Wetaskiwin, Alberta, Canada. Gate valve. 1,713,905; May 21.  
 Kadow, August, assignor to The Vacuum Casting Company, Toledo, Ohio. Casting metal. 1,699,592; Jan. 22.  
 Kadow, August, assignor to The Vacuum Casting Company, Toledo, Ohio. Vacuum connection for molds. 1,717,607; June 18.  
 Kadow, August, assignor to The Vacuum Casting Company, Toledo, Ohio. Automatic casting machine. 1,717,608; June 18.



- Kadow, August, assignor of one-half to W. Owen and C. W. Owen, Toledo, Ohio. Process and apparatus for casting hollow articles. 1,725,144; Aug. 20.
- Kaehni, Frank, J. and W. L., Cleveland, Ohio. Producing illumination effects. 1,717,785; June 18.
- Kaehni, William L. (See Kaehni, Frank J. and W. L.)
- Kaelma Manufacturing Company. (See Synder, George C., assignor.)
- Kaemmel, Ernst H., Zella, assignor, by mesne assignments, to Mercedes Büro-Maschinen-Werke Aktiengesellschaft, Thuringen, Germany. Shifting the platen or the like in typewriters. 1,708,066; Apr. 9.
- Kaemmerling, Gustav H., Allentown, Pa., assignor, by mesne assignments, to Fuller Lehigh Company. Apparatus for burning pulverized fuel. 1,714,128; May 21.
- Kaestner, Albert, et al. (See Peter, William J., assignor.)
- Kaestner, Ernest A. and R. E., assignors to J. G. Kaestner, Baltimore, Md. Milk holder. 1,712,733; May 14.
- Kaestner and Hecht Elevator Company. (See Kinnard, Luther J., assignor.)
- Kaestner, J. G. (See Kaestner, Ernest A. and R. E., assignors.)
- Kaestner, Robert E. (See Kaestner, Ernest A. and R. E.)
- Kaesz, Stefan. (See Hamburger, R., Kaesz, and Hartig.)
- Kagi, Albert, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Pressing element for pressing machines. 1,706,786; Mar. 26.
- Kägi, Johann. (See Hartmann, M., and Kägi.)
- Kahanowitz, Harry, Scranton, Pa. Bottle or similar article of manufacture. Des. 79,721; Oct. 29.
- Kahl, Ernest E. (See Jahn, E., and Kahl.)
- Kahle, Clay O., Bremerton, Wash. Golf bag. 1,709,582; Apr. 16.
- Kahler, Frank, Los Angeles, Calif. Gate-operating system. 1,737,088; Nov. 26.
- Kahlert, Ernest F., and S. F. Steuart, Browerville, Minn. Safety reflector for motor vehicles. 1,703,489; Feb. 26.
- Kahmen, Charles, Elizabeth, N. J. Musical apparatus. 1,723,513; Aug. 6.
- Kahn, Albert, assignor to Société Française des Produits Alimentaires Azotes, Paris, France. Manufacture of food and other useful products from lower vegetables. 1,702,303; Feb. 19.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heating appliance. 1,709,670; Apr. 16.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Stove. 1,717,221; June 11.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Stove oven. 1,717,222; June 11.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Heater. 1,727,714; Sept. 10.
- Kahn, Edward C., Milwaukee, Wis. Gaseous fuel and air mixing device in the form of gaskets. 1,697,528; Jan. 1.
- Kahn, Joseph, Chicago, Ill. Loose-leaf binder. 1,738,585; Dec. 10.
- Kahn, Julius, assignor to Truscon Steel Company, Youngstown, Ohio. Fabricated pole. 1,718,693; June 25.
- Kahn, Maurice, Paris, E. Le Breton, and G. Schaeffer, Strasbourg, assignors to Société Française Des Produits Alimentaires Azotes, Paris, France. Industrial use of inferior vegetables. 1,724,027; Aug. 13.
- Kahn, Max, assignor to Pen-O-Pencil Co., Inc., New York, N. Y. Combined penholder and desk pad. Des. 80,038; Dec. 3.
- Kahn, Oscar I., New York, N. Y. Parasol and umbrella. 1,741,846; Dec. 31.
- Kahn, Otto, Catonsville, Md. Punch and die. 1,727,065; Sept. 3.
- Kahrman, Robert C., Elizabeth, N. J., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass. Cover paper or the like. Des. 77,964; Mar. 12.
- Kaier, Richard, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Carburetizing apparatus. 1,733,490; Oct. 29.
- Kaighin, Arnold. (See Baker, H. C., and Kaighin.)
- Kail, Carl. (See Ager, C. E., Kail, Ager, and Kail.)
- Kail, Philip. (See Ager, C. E., Kail, Ager, and Kail.)
- Kail, Wilton. (See Ager, C. E., Kail, Ager, and Kail.)
- Kain, Leroy R., Los Angeles, Calif. Leg for a display stand or similar article. Des. 78,290; Apr. 16.
- Kain, Leroy R., Los Angeles, Calif. Leg for a display stand or similar article. Des. 78,291; Apr. 16.
- Kain, Leroy R., Los Angeles, Calif. Leg for a display stand or similar article. Des. 78,292; Apr. 16.
- Kain, Leroy R., Los Angeles, Calif. Leg for a display stand or similar article. Des. 78,293; Apr. 16.
- Kain, Leroy R., Los Angeles, Calif. Leg for a display stand or similar article. Des. 78,294; Apr. 16.
- Kain, Leroy R., Los Angeles, Calif. Leg for a display stand or similar article. Des. 78,295; Apr. 16.
- Kaiser, Alfred E., Bellevue, assignor to Photo Equipment Mfg. Co., Seattle, Wash. Border-printing machine. 1,729,783; Oct. 1.
- Kaiser, Christian J., Great Falls, Mont. Ventilated toilet bowl. 1,740,246; Dec. 17.
- Kaiser, Harry E., and R. S. Hancock, Kenil, N. J., assignors to Hercules Powder Company, Wilmington, Del. Recovering high-grade wood rosin. 1,715,084; May 28.
- Kaiser, Harry E., and R. S. Hancock, Kenil, N. J., assignors to Hercules Powder Company, Wilmington, Del. High-grade wood rosin. 1,715,085; May 28.
- Kaiser, Harry E., and R. S. Hancock, Kenil, N. J., assignors to Hercules Powder Company, Wilmington, Del. Refining rosin. 1,715,088; May 28.
- Kaiser, Harry E., Kenil, and A. Langmeier, Dover, N. J., assignors to Hercules Powder Company, Wilmington, Del. Refining wood rosin. 1,719,431; July 2.
- Kaiser, Peter, assignor to 103<sup>rd</sup> Incubator Company, Crown Point, Ind. Egg tray for incubators. 1,716,892; June 11.
- Kaiser, Karl, Munich, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Automatic clutch. 1,730,890; Oct. 8.
- Kaiser, Karl, Munich, assignor to Metallgesellschaft Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Centrifugal friction clutch. 1,730,937; Oct. 8.
- Kajanoff, Philippe, The Hague, Netherlands. Apparatus with siphon mechanism for delivering different predetermined quantities of liquids. 1,737,501; Nov. 26.
- Kajiwar, Chiyokichi, Honolulu, Hawaii. Kamaboko-molding machine. 1,741,023; Dec. 24.
- Kajiyama, Tameo, New York, N. Y. Insole for shoes. 1,712,387; May 7.
- Kakaley, Joseph, Hazleton, Pa. Letter sheet and envelope. 1,706,300; Mar. 19.
- Kalamazoo Sled Company. (See Kidder, William E., assignor.)
- Kalamazoo Stove Company. (See Cathcart, Cuthbert C., assignor.)
- Kalb, Lewis P., assignor to Continental Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,724,599; Aug. 13.
- Kalb, Warren C., Bradford, Pa., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Brush for dynamo-electric machinery. 1,734,811; Nov. 5.
- Kalberer, George J., Hamilton, Ohio. Truck. 1,740,404; Dec. 17.
- Kalbfeisch, Oscar C., Mansfield, Ohio. Vulcanizing apparatus. 1,715,927; June 4.
- Kalenoff, Godel, Brooklyn, N. Y. Combined spade and planter. 1,720,601; July 9.
- Kales Stamping Company. (See Whitehead, J. F., and Zink, assignors.)
- Kaletay, Joseph F., New York, N. Y. Roller screen. 1,740,816; Dec. 24.
- Kalgren, John E., Minneapolis, Minn. Bolt cutter. 1,733,374; Oct. 29.
- Kalgren, John E., assignor to The J. R. Clark Co., Minneapolis, Minn. Ironing board. 1,733,306; Oct. 29.
- Kalgren, John E., assignor to The J. R. Clark Co., Minneapolis, Minn. Ironing board. 1,734,027; Nov. 5.
- Kalgren, John E., assignor to The J. R. Clark Co., Minneapolis, Minn. Ironing table. 1,734,628; Nov. 5.
- Kalhaus, Ernst. (See Lespinat, G., and Kalhaus.)
- Kali-Chemie A. G. (See Gengross, O., and Rülke, as assignor.)
- Kali-Chemie Aktiengesellschaft. (See Rüsberg, F., and Schmid.)
- Kalisch, Ernst, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Welded underframe for railway cars. 1,723,176; Aug. 6.
- Kalischer, Georg, and K. Keller, Frankfurt-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Ortho halogen-substituted aromatic quaternary ammonium compounds and making the same. 1,703,150; Feb. 26.
- Kalischer, Georg, Frankfurt-on-the-Main, and R. Müller, Mainkur, near Frankfurt-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Production of vat dyestuffs. 1,697,361; Jan. 1.
- Kalischer, Georg, and H. Scheyer, Frankfurt-on-the-Main, and K. Keller, Mainkur, near Frankfurt-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. New chlorinated aldehyde of the aromatic series and making same. 1,717,567; June 18.
- Kalischer, Georg, and H. Scheyer, Frankfurt-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft. Carboxylic acid of the fatty-aromatic series and making same. 1,721,560; July 23.
- Kalischer, Georg, Frankfurt-on-the-Main, and W. Zerweck, Fechenheim, near Frankfurt-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs and making same. 1,705,817; Mar. 19.
- Kalk, Albert C., Chicago, Ill., assignor to Invincible Laundry Equipment Co. Safety device for driers. 1,718,561; June 25.
- Kalle, Torsten, Saffle, Sweden. Controlling the supply of a driving fluid, the pressure of a fluid, and similar purposes. 1,738,072; Dec. 3.
- Kallio, Edward, assignor of one-half to A. Dalpra, Crystal Falls, Mich. Cribbage board. 1,717,037; June 11.
- Kalman Steel Company. (See Klocke, William H., assignor.)
- Kalman Steel Company. (See White, William E., assignor.)
- Kaltenbach, Mathew J., Rocky River, Ohio. Sound detector. 1,708,698; Apr. 9.
- Kaltenbach, Robert W., Cleveland, assignor to The McMyler Interstate Company, Belford, Ohio. Car dumper. 1,707,984; Apr. 9.



- Kamada, Was, New York, N. Y. Detachable shoe heel. 1,716,855; June 11.
- Kambo, Luigi, Rome, Italy. Odograph. 1,711,791; May 7.
- Kamedish, Peter B., Winnipeg, Manitoba, Canada. Safety attachment for locomotives. 1,717,692; June 18.
- Kamei, Torao, Tokyo-Shi, and F. Kuwata, Tokyo-Fu, Japan. Terrestrial globe. 1,740,022; Dec. 17.
- Kamenstein, Meyer, Brooklyn, N. Y. Sheet-metal follower. 1,700,317; Jan. 29.
- Kaminsky, Michael, New Britain, Conn. Switch-operating mechanism. 1,721,222; July 16.
- Kamman, William H., Burlington, Iowa. Food-display rack. 1,715,603; June 4.
- Kammerer, Fred W., New York, N. Y. Grooving tool. 1,727,988; Sept. 10.
- Kammerer, Hans, Mannheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dye-stuff containing chromium. 1,727,468; Sept. 10.
- Kammüller, Karl, Karlsruhe in Baden, Germany. Water chamber. 1,705,089; Mar. 12.
- Kampa, Edmund P., and P. N. Hyman, Minneapolis, Minn.; said Kampa assignor to said Hyman. Toxic agent. 1,707,727; Apr. 2.
- Kamper, Andrew M., Hallston, via Yarragon, Victoria, Australia. Change-speed gear. 1,721,123; July 16.
- Kämpf, Adolf, Premnitz, Westhavelland, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Machinery for softening or breaking fibrous materials. 1,728,632; Sept. 17.
- Kämpfer, Adolf, Berlin, assignor of one-fourth to M. Küller, Berlin-Steglitz, Germany, and one-half to Count Eduard Oppersdorf, Paris, France. Spring mounting for vehicles. 1,722,426; July 30.
- Kämpfer, Adolf, Berlin, assignor of one-half to M. Küller, Berlin-Steglitz, Germany, and one-half to Count Eduard Oppersdorf, Paris, France. Spring mounting for vehicles. 1,722,427; July 30.
- Kampan, Frederick H., Detroit, Mich. Automobile accelerator-regulating device. 1,704,505; Mar. 5.
- Kamradt, Leon A. (See Johnson, Erik W., assignor.)
- Kamrath, Herbert G., Flint, Mich. Air cleaner. 1,733,491; Oct. 29.
- Kamrath, Herbert G., assignor to General Motors Research Corporation, Dayton, Ohio. Indicator. 1,710,988; Apr. 30.
- Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Air cleaner. 1,721,517; July 23.
- Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Air cleaner. 1,723,427; Aug. 6.
- Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Air cleaner. 1,723,428; Aug. 6.
- Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Air-cleaner blade. 1,729,390; Sept. 24.
- Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Gravity filter. 1,737,313; Nov. 26.
- Kan, Louis, and F. J. Wilson, Walla Walla, Wash. Shock-absorbing hinge. 1,722,428; July 30.
- Kanaky, Henry P., assignor to Kan-Dor Electric Corporation, Los Angeles, Calif. Making electric-motor stators. 1,711,414; Apr. 30.
- Kanarian, Charles, New York, N. Y. Photoprinting machine. 1,716,820; June 11.
- Kandle, Furman M., Atlantic City, N. J. Furnace grate. 1,728,126; Sept. 10.
- Kandle, Furman M., Atlantic City, N. J. Furnace grate. 1,742,081; Dec. 31.
- Kan-Dor Electric Corporation. (See Kanaky, Henry P., assignor.)
- Kane, Frank J., Brooklyn, N. Y. Heating device for shoe-finishing machines. 1,716,064; June 4.
- Kane, Ida L., and J. Scherfer, Chicago, Ill. Separable fastener. 1,703,825; Feb. 26.
- Kane, John J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrical power system. 1,740,356; Dec. 17.
- Kane, Robert L. (See Chamness, Grover C., and G. E., Kane, and Keith.)
- Kane, Thomas E., Mansfield, Mass. Spreading or stretching material. 1,716,555; June 11.
- Kane, Thomas H., deceased; Dollar Savings and Trust Company, executor, assignor to Truscon Steel Company, Youngstown, Ohio. Metal roof-deck construction. 1,706,924; Mar. 26.
- Kanegafuchi Boseki Kabushiki Kwaisha. (See Kobori, Kihachiro, assignor.)
- Kanegafuchi Boseki Kabushiki Kwaisha. (See Muto, T., and Hida, assignors.)
- Kanell, Andrew, Chicago, Ill. Shoe-stretching device. 1,720,479; July 9.
- Kanelos, Alexander G., Chicago, Ill. Display device. 1,720,126; July 9.
- Kanis, Oswin. (See Hofmann, A., and Kanis.)
- Kanné, Alexander R., Brooklyn, assignor to Kanné & Bessant, Inc., New York, N. Y. Supporting pedestal for lamps. Des. 78,161; Apr. 2.
- Kanné, Alexander R., Brooklyn, assignor to Kanné & Bessant, Inc., New York, N. Y. Element for a lamp-supporting pedestal. Des. 78,933; July 9.
- Kanné & Bessant, Inc. (See Kanné, Alexander R., assignor.)
- Kannewisher, Carl J., Rochester, N. Y. Device for testing typewriter ribbons. 1,738,830; Dec. 10.
- Kannengliesser, Paul, Berlin-Pankow, and E. Gasiorowski, Hermsdorf, Germany, assignors to General Electric Company. Switching system. 1,713,181; May 14.
- Kanold, William F., Los Angeles, Calif. Automatic door-set. 1,730,660; Oct. 8.
- Kanowitz, Lena, New York, N. Y. Garter. 1,725,278; Aug. 20.
- Kant, Edwin S., Brookline, Mass. Shock absorber. 1,734,857; Nov. 5.
- Kantack, Walter W., St. Albans, N. Y. Lighting fixture. 1,731,669; Oct. 15.
- Kanter, William, assignor to The Pressed Metal Products Company, Cleveland, Ohio. Clothesline prop. 1,716,779; June 11.
- Kant-Klick Valve Silencer Company. (See Hall, Charles W., assignor.)
- Kantmann, Adolph G., assignor to Anglo-American Mill Company, Owensboro, Ky. Feed mixer. 1,725,279; Aug. 20.
- Kantor, Albert, Edmonton, Alberta, Canada. Fuse protector. 1,726,492; Aug. 27.
- Kantor, Hymen, Clarksdale, Miss. Lift. 1,716,232; June 4.
- Kantor, James, assignor, by mesne assignments, to The Liquid Carbonic Corporation, Chicago, Ill. Bottle-washing machine. 1,726,229; Aug. 27.
- Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Filling mechanism. 1,731,464; Oct. 15.
- Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Filling mechanism. 1,731,465; Oct. 15.
- Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Filling mechanism. 1,738,432; Dec. 3.
- Kantrowitz, Solomon, Queens, N. Y. Cap. 1,726,270; Aug. 27.
- Kapella Limited. (See Lee, Horace W., assignor.)
- Kapfhammer, Paul, Louisville, Ky. Doughnut-handling machine. 1,724,600; Aug. 13.
- Kapigian, Haig, Camden, N. J. Ship stabilizer. 1,710,625; Apr. 23.
- Kapigian, Haig, Camden, N. J. Propelling means for boats. 1,725,923; Aug. 27.
- Kapitzka, Pierre, Chesterton, England. Electric high-tension apparatus. 1,710,626; Apr. 23.
- Kaplan, Benjamin, Brooklyn, N. Y. Faucet. 1,715,132; May 28.
- Kaplan, Isidor, New York, N. Y. Ventilated cap. 1,725,520; Aug. 20.
- Kaplan, Jacob H., Chicago, Ill. Apparatus for applying heat and air in dental work. 1,722,377; July 30.
- Kaplan, Jacob H., Chicago, Ill. Apparatus for applying heat and air in dental work. 1,722,378; July 30.
- Kaplan, Max, and D. Talnoper, New York, N. Y. Compound dies. 1,705,924; Mar. 19.
- Kaplan, Philip. (See Walker, V. D., and Kaplan.)
- Kaplan, Reuben A., assignor to Owatonna Tool Co., Owatonna, Minn. Gear puller. 1,709,913; Apr. 23.
- Kaplan, Samuel, assignor of one-half to H. Brenner, Brooklyn, N. Y. Flash-light holder. 1,717,386; June 18.
- Kappeler, Anna E. (See Kappeler, Ernest R., assignor.)
- Kappeler, Ernest R., assignor to A. E. Kappeler, Chicago, Ill. Golf training device. 1,722,848; July 30.
- Kappeler, Ernest R., assignor to A. E. Kappeler, Chicago, Ill. Golf practicing device. 1,732,971; Oct. 22.
- Käppler, Felix, Dresden, Germany, assignor of one-half to H. Fraser, London, England. Match receptacle. 1,726,899; Sept. 3.
- Käppler, Felix, Dresden, Germany, assignor of one-half to H. Fraser, London, England. Match plate as well as method of and means for manufacturing the same. 1,726,900; Sept. 3.
- Käppler, Paul, Dresden, Germany. Case-shift mechanism. 1,718,788; June 25.
- Käppler, Paul, Dresden, Germany. Ink-ribbon vibrator mechanism in typewriters. 1,724,485; Aug. 13.
- Käppler, Paul, Dresden, Germany. Paper-guiding arrangement for typewriters and like machines. 1,737,162; Nov. 26.
- Karasz, Iionke, assignor to Leshner, Whitman & Co., Inc., New York, N. Y. Textile fabric. Des. 78,296; Apr. 16.
- Karavadas, Dances, Baltimore, Md. Bottle. Des. 77,839; Feb. 26.
- Karbowski, Victor, Chicago, assignor of one-half of F. S. Feldheim, Evanston, Ill. Hose coupling. 1,695,196; Jan. 8.
- Karcher, John C., Montclair, N. J., assignor to Geophysical Research Corporation, New York, N. Y. Method and apparatus for locating geological formations. 1,706,066; Mar. 19.
- Karsak, Paul, New York, N. Y. Button-securing device. 1,706,576; Mar. 26.
- Karhol, Edward, Brooklyn, N. Y. Dolly. Des. 77,555; Jan. 22.
- Karhol, Edward, Brooklyn, N. Y. Dolly. Des. 78,029; Mar. 19.
- Karger, David, Milwaukee, Wis. Cap. 1,697,507; Jan. 1.
- Karibo, Edmond C. (See Pearce, E. S., and Karibo.)
- Karibo, Edmond C. (See Pearce, E. S., Retterer, and Karibo.)
- Karl-Keen Manufacturing Company. (See Arndt, Ernest A., assignor.)
- Karl-Keen Manufacturing Company. (See Cormican, Robert M., assignor.)
- Karitzky, John. (See Pleister, H. W., and Karitzky.)



- Karkoska, Frank J., Detroit, Mich. Extension handle for nonlifting injector-starting valves. 1,727,236; Sept. 3.
- Kar-Lac Company. (See Karlson, Julius H., assignor.)
- Karl, Heinrich, Jersey City, N. J. Electropneumatic braking system. 1,726,838; Sept. 3.
- Karle, John D., Roselle Park, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Short-circuiting device. 1,737,538; Nov. 26.
- Karley, John J., Le Mars, Iowa. Farrowing house. 1,708,088; Apr. 9.
- Karlovick, Paul A., Chicago, Ill. Handle. 1,702,511; Feb. 19.
- Karlson, Alfred F., North Leominster, assignor to Parks-Cramer Company, Boston, Mass. Humidifying system. 1,729,074; Sept. 24.
- Karlson, Julius H., Chicago, Ill. Double-walled electrically-heated vessel. 1,720,045; July 9.
- Karlson, Julius H., assignor to Kar-Lac Company, Chicago, Ill. Beverage mixer. 1,702,512; Feb. 19.
- Karliczek, Karl, Detroit, Mich. Aeroplane. 1,728,683; Sept. 17.
- Karlsson, Karl M., Vadsbro, Sweden. Weeding knife. 1,717,351; June 11.
- Karlström, Adolf M. R., Hyltebruk, Sweden. Method and apparatus for recovery of fibers from liquids. 1,717,223; June 11.
- Karmazin, John, Detroit, Mich. Forming integral tubular projections on a sheet of metal. 1,699,361; Jan. 15.
- Karmazin, John, Detroit, Mich. Applying solder. 1,704,539; Mar. 5.
- Karmazin, John, Detroit, Mich. Method and apparatus for assembling radiator sections by soldering. 1,705,572; Mar. 19.
- Karmazin, John, Detroit, Mich. Method and machine for constructing radiators. 1,717,038; June 11.
- Karmazin, John, Detroit, Mich. Radiator-assembling machine. 1,717,039; June 11.
- Karmazin, John, Detroit, Mich. Radiator and forming the same. 1,718,361; June 25.
- Karmazin, John, Detroit, Mich. Method and apparatus for forming radiators. 1,724,486; Aug. 13.
- Karmazin, John, Detroit, Mich. Centrifugal cooling device. 1,739,314; Dec. 10.
- Karmazin, John, Detroit, Mich. Forming radiators. 1,704,098; Dec. 17.
- Karn, Mack I., Pontiac, Mich. Safety calk web. 1,739,237; Dec. 10.
- Karn, Sarah, New York, N. Y. Folding wrapper. 1,720,679; July 16.
- Karnath, Kurt, Zweibrücken, Germany. Mechanical movement. 1,705,481; Mar. 19.
- Karnath, Kurt, Zweibrücken, Germany. Slide valve. 1,722,752; July 30.
- Karnes, James C., Buffalo, N. Y. Data computer. 1,699,202; Jan. 15.
- Karnes, James C., Buffalo, N. Y. Sighting apparatus for guns. 1,708,889; Apr. 9.
- Karnes, James C., Buffalo, N. Y. Fire-control system for ordnance. 1,716,821; June 11.
- Karnes, James C., Buffalo, N. Y. Telescopic sight for guns. 1,719,552; July 2.
- Karns, William E., Tyrone, Pa. Adjustable striker plate. 1,733,412; Sept. 29.
- Karolus, August. (See Schnitzeler, P., and Karolus.)
- Karolus, August, Leipzig, Germany, assignor to Radio Corporation of America. Picture telegraphy. 1,780,772; Oct. 8.
- Karolus, August, Leipzig, Germany, assignor to Radio Corporation of America, New York, N. Y. Circuit arrangement for the operation of photo-electric cells. 1,739,005; Dec. 10.
- Karpen, King, assignor to S. Karpen & Bros., Chicago, Ill. Cushion structure and manufacture. 1,720,480; July 9.
- Karpen, Martin S., Michigan City, Ind., assignor to S. Karpen & Bros., Chicago, Ill. Table. 1,714,172; May 21.
- Karpen, S., & Bros. (See Carter, Carrie B., assignor.)
- Karpen, S., & Bros. (See Havel, Frank, assignor.)
- Karpen, S., & Bros. (See Hultgren, Charles, assignor.)
- Karpen, S., & Bros. (See Hultgren, Charles R., assignor.)
- Karpen, S., & Bros. (See Karpen, King, assignor.)
- Karpen, S., & Bros. (See Karpen, Martin S., assignor.)
- Karpen, S., & Bros. (See Kaspar, Frank, assignor.)
- Karpi, Charles O., Brooklyn, N. Y., assignor to Mannington Mills, Inc., Salem, N. J. Decorating floor coverings. 1,735,765; Nov. 12.
- Karplus, Hans, Frankfurt-on-the-Main, Germany. Manufacture of hollow artificial textile threads. 1,707,164; Mar. 26.
- Karr, Arthur T., Yakima, Wash. Lump-coal or coal-briquette burning or heating heater. 1,713,650; May 21.
- Karr, Charles D., (See Rhineyault, Harry A., assignor.)
- Karr, Edward, Belleville, Ill. Range. 1,703,343; Feb. 26.
- Karr, Ernest M., and J. A. Boucher, assignors to Gifford-Wood Company, Hudson, N. Y. Knob cutter. 1,723,700; Aug. 6.
- Karr, Raymond, Johnstown, Pa. Bowling alley. 1,724,841; Aug. 13.
- Karrasch, Julius M., Orange, N. J. Tail structure for aeroplane. 1,721,598; July 23.
- Karrer, André, Mulhouse-Dornach, France, assignor to Societe Alsacienne de Constructions Mecaniques, Mulhouse, France. Roller for cotton gins. 1,731,534; Oct. 15.
- Karrier Motors, Limited. (See Jemison, John W., assignor.)
- Karsten, Karl G., New Haven, Conn. Tridimensional chart. 1,700,318; Jan. 29.
- Kart, Henry, Buffalo, N. Y. Milk bottle. Des. 78,628; May 28.
- Karvaly, Hugo. (See Thoeirg, Conrad W., assignor.)
- Karwoski, Joseph, Watervliet, N. Y. Life-saving boat. 1,728,416; Sept. 17.
- Karzen, Samuel C., (See Dryer, J. E., and Karzen.)
- Kasanof, Maurice M., New York, N. Y. Drier and steamer for tubular fabrics. 1,711,094; Apr. 30.
- Kasanof, Maurice M., New York, N. Y. Steamer and shrinker for tubular fabrics. 1,723,939; Aug. 6.
- Kasbarian, Henry, Boston, Mass. Curtain holder. 1,739,551; Dec. 17.
- Kasch, Henry J., assignor to The Kurz-Kasch Company, Dayton, Ohio. Housing for radioindicators or the like. 1,718,741; June 25.
- Kasdan, Nathan, New York, and R. F. Landwehr, Woodside, assignors to Majestic Metal Specialties, Inc., New York, N. Y. Cosmetic-pencil container. 1,722,298; July 30.
- Kasdan, Nathan, New York, and R. F. Landwehr, Woodside, assignors to Majestic Metal Specialties, Inc., New York, N. Y. Cosmetic-pencil container. 1,722,299; July 30.
- Kaser, Everett D., assignor to Durabilt Steel Locker Co., Aurora, Ill. Locker. 1,702,385; Feb. 19.
- Kashian, Minas H., Boston, Mass. Automobile body. 1,715,928; June 4.
- Kasley, Alexander T. (See Herr, H. T., and Kasley.)
- Kasley, Alexander T., Moors, Pa., assignor to Westinghouse Electric & Manufacturing Company. Marine power installation. Re17,218; Feb. 19.
- Kasley, Alexander T., Moors, Pa., assignor to Westinghouse Electric & Manufacturing Company. Internal-combustion-engine cylinder. 1,723,177; Aug. 6.
- Kasley, Alexander T., Moors, Pa., assignor to Westinghouse Electric & Manufacturing Company. Governor. 1,732,812; Oct. 22.
- Kasley, Alexander T., Moors, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-pressure governor. 1,732,813; Oct. 22.
- Kasley, Alexander T., Moors, Pa., assignor to Westinghouse Electric & Manufacturing Company. Gearing. 1,738,251; Dec. 3.
- Kasley, Alexander T., Tinicum Township, Delaware County, Pa., assignor to Westinghouse Electric and Manufacturing Company. Refrigerating apparatus. 1,715,709; June 4.
- Kaspar, Frank, assignor to S. Karpen & Bros., Chicago, Ill. Cushion construction. 1,719,553; July 2.
- Kaspar, Frank, assignor to S. Karpen & Bros., Chicago, Ill. Cushion construction. 1,741,847; Dec. 31.
- Kasprzak, Mateusz. (See Flis, S., and Kasprzak.)
- Kassander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Sprinkling device for locomotive ash pans. 1,740,601; Dec. 24.
- Kassler, Adolph, assignor to American Car and Foundry Company, New York, N. Y. Door for hopper cars. 1,706,067; Mar. 19.
- Kassler, Adolph, assignor to American Car and Foundry Company, New York, N. Y. Railway truck. 1,727,715; Sept. 10.
- Kassler, Adolph, New York, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Castor. 1,727,716; Sept. 10.
- Kassler, Edwin S., jr., et al. (See Sherrick, Samuel T., assignor.)
- Kassow, Crissie, Key West, Fla. Hair-cutting device. 1,737,461; Nov. 26.
- Kast, Edward R., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Cutter clamp. 1,729,582; Sept. 24.
- Kast, Henry J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Float ball. 1,710,646; Apr. 23.
- Kasten, Otto, assignor to Metal Ware Corporation, Two Rivers, Wis. Removable support for electrically-heated articles. 1,727,066; Sept. 3.
- Kaster, Henry C., St. Louis, Mo. Meat patty mold and dispenser device. 1,700,765; Feb. 5.
- Kasting, Frieda M., Detroit, Mich. Pendant key case. 1,726,569; Sept. 3.
- Kästner, Johann G., Frankfurt-on-the-Main, Germany. Treating fibrous material of vegetable, artificial, or animal origin. 1,730,430; Oct. 8.
- Kasztory, Frank, assignor of one-half to I. Izsak, Chicago, Ill. Household water filter and strainer. 1,726,839; Sept. 3.
- Katayama, Toyojiro, Standardville, Utah. Coal and rock separating mechanism. 1,705,456; Mar. 12.
- Katelman, L. H. (See Rasmussen, Laurits T., assignor.)
- Kath, Alfred W., and B. W. Scott, assignors to Arthur Colton Company, Detroit, Mich. Wrapping machine. 1,709,984; Apr. 23.
- Kathner, Arthur T., Mount Lebanon, Pa. Annealing and heat-treating furnace. Re17,413; Aug. 20.
- Kathner, Arthur T., New Cumberland, W. Va. Metal-treating furnace. 1,725,398; Aug. 20.
- Katims, Harry. (See Weiner, E., and Katims.)
- Katona, Louis F., Los Angeles, Calif. Sewer-flushing device. 1,704,437; Mar. 5.



- Katona, Louis F., Los Angeles, Calif. Sewer-flushing device. 1,722,471; July 30.
- Katt, William H., Chicago, Ill. Vehicle signal device. 1,733,885; Oct. 29.
- Katterjohn, August H. (See Skaer, A. H., Barker, Katterjohn, and Clark.)
- Katterjohn, August H. (See Skaer, A. H., and Katterjohn.)
- Katterjohn, August H., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Rock drill. 1,709,024; Apr. 16.
- Kattrein, William J., Albany, N. Y. Adjustable pilot reamer. 1,712,079; May 7.
- Katuby, George, Rahway, N. J. Roller skate. 1,700,058; Jan. 22.
- Katz, Burl E., Norfolk, Nebr. Harness and collar pad. 1,698,232; Jan. 8.
- Katz, Burl E., Winside, Nebr. Sponge-rubber pad for telephone-pole climbers. 1,727,237; Sept. 3.
- Katz, David E., assignor to Bayer, Pretzfelder and Mills, Incorporated, New York, N. Y. Bracelet clasp. 1,703,490; Feb. 26.
- Katz, Harry M., New York, N. Y. Tie-adjusting catch pin. 1,730,149; Oct. 1.
- Katz, John A., assignor to S. F. Lancks, York, Pa. Safe-deposit-box lock. 1,728,127; Sept. 10.
- Katz, John A., assignor to S. Forry Laucks, York, Pa. Lock for safe-deposit boxes. 1,732,847; Oct. 22.
- Katz, Martin, Brooklyn, assignor to Fells, Lent, Cantor, Katz Corporation, Long Island City, N. Y. Mounting for store windows. 1,722,300; July 30.
- Katz, William, et al. (See Chamberlain, Ing, assignor.)
- Katzander, Morris P., Philadelphia, Pa. Chair construction. 1,719,704; July 2.
- Katzele, Rudolph A., and M. C. Christensen, Barnum, Minn. Vegetable cutter. 1,734,131; Nov. 5.
- Katzenberger, Bernard, and T. Jansen, Mannheim, Germany, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Insulator mounting. 1,704,005; Mar. 5.
- Katzinger, Arthur, assignor to Edward Katzinger Company, Chicago, Ill. Cake pan. Re17,234; Mar. 12.
- Katzinger, Arthur, Glencoe, assignor to Edward Katzinger Company, Chicago, Ill. Baking pan. 1,732,019; Oct. 15.
- Katzinger, Edward, Chicago, Ill. Baking pan. 1,734,731; Nov. 5.
- Katzinger, Edward, Company. (See Jackson, Joseph G., assignor.)
- Katzinger, Edward, Company. (See Katzinger, Arthur, assignor.)
- Katzman, Jacob, and J. Kipnis, Philadelphia, Pa., assignors to French Beading & Novelty Co. Shoe-ornament mounting. 1,728,763; Sept. 17.
- Katzman, Sam, Denver, Colo. Taking and completing X-ray pictures of objects in action and machine for taking pictures according thereto. 1,704,974; Mar. 15.
- Kauch, Robert. (See Paulus, C. L., and Kauch.)
- Kauch, Robert, and C. L. Paulus, Dayton, Ohio. Automatic compensating gun sight. 1,724,092; Aug. 13.
- Kauch, Robert, and C. L. Paulus, Dayton, Ohio. Automatic compensating gun sight. 1,724,093; Aug. 13.
- Kaufer, Joseph, Far Rockaway, and S. Kaufer, New York, N. Y. Combination brooch-bar pin. 1,716,640; June 11.
- Kaufer, Saul. (See Kaufer, Joseph and S.)
- Kaufman, Albert J., Johnstown, Pa. Advertising exhibitor. 1,707,861; Apr. 2.
- Kaufman, Byrd F., Dallastown, Pa. Nursing-bottle holder. 1,734,522; Nov. 5.
- Kaufman, Elias A., Chicago, Ill. Aeroplane. 1,703,396; Feb. 26.
- Kaufman, Harry M., Philadelphia, Pa. Dispensing machine. 1,739,970; Dec. 17.
- Kaufman & Lattimer Company, The. (See Foulk, Charles W., assignor.)
- Kaufman, Samuel, St. Louis, Mo. Radiator inclosure. 1,735,436; Nov. 12.
- Kaufung, Clarence H., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper. 1,739,074; Dec. 10.
- Kaufman, David, and M. Mintz, Bronx, N. Y. Waterproof container. 1,714,877; May 28.
- Kaufman, Henry, Pendleton, Oreg. Feeding-rack support. 1,719,769; July 2.
- Kaufman, Joseph, and M. Zaiman, Brooklyn, N. Y. Electrical vaporizer. 1,717,040; June 11.
- Kaufman, Lester, and F. H. Fog, New York, N. Y. Vehicle toy device. 1,714,270; May 21.
- Kaufman, Philip P., Appleton, Wis. Delayed switch action. 1,698,548; Jan. 8.
- Kaufman, Rhoda P., administratrix. (See Keller, J. M., and Ames.)
- Kaufman, Tobias J. (See Crane, R. E., and Kaufman.)
- Kaufman, Tobias J., Chicago, Ill. Lavatory fixture. 1,728,492; Sept. 17.
- Kaufmann, Ary, assignor to K. Kaufmann & Co., Newark, N. J. Frameless bag. 1,697,916; Jan. 8.
- Kaufmann, Charles J., and T. A. Smith, assignors to Geo. A. Hormel & Company, Austin, Minn. Machine for spitting pigs' feet. 1,720,127; July 9.
- Kaufmann Department Stores, Inc. (See Sesti, Ferdinand, assignor.)
- Kaufmann, Henry L., Newton, Mass. Protector for mattresses. 1,700,535; Jan. 29.
- Kaufmann, Henry L., Newton, Mass. Mattress protector. 1,722,429; July 30.
- Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 1,709,583; Apr. 16.
- Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Jacquardloom harness. 1,719,476; July 2.
- Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 1,725,004; Aug. 20.
- Kaufmann, K., & Co. (See Kaufmann, Ary, assignor.)
- Kaufmann, Siegfried H., London, England. Embossing machine. 1,708,795; Apr. 9.
- Kaumagraph Company. (See Lawrence, Winthrop S., assignor.)
- Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Lister. 1,722,580; July 30.
- Kausal, Joseph B., Chicago, Ill. Cross-aisle light. 1,738,712; Dec. 10.
- Kausch, Emil, Milwaukee, Wis. Ventilator. 1,740,817; Dec. 24.
- Kaustine Company. (See Bennett, Thomas, assignor.)
- Kaustine Company. (See Bennett, T., Sloane, and Fortenbaugh, assignors.)
- Kaut, William, University City, Mo. Toe-molding machine. 1,717,928; June 18.
- Kaut, William, University City, Mo. Manufacture of stitch-down shoes. 1,733,375; Oct. 29.
- Kauth, Henry J. (See Lobdell, G. S., and Kauth.)
- Kautz, Frederick, assignor of one-half to J. Feicht, Reading, Pa. Airplane wing. 1,716,314; June 4.
- Kautz, Jacob, Chicago, Ill. Saw-tooth-setting device. 1,722,924; July 30.
- Kautz, Jacob, Chicago, Ill. Hair clipper. 1,735,766; Nov. 12.
- Kauwertz, Hermann, Cologne-Lindenthal, Germany. Device for mixing liquids in variable proportions. 1,707,058; Mar. 26.
- Kavanagh, Charles H., Lexington, Mass. Fruit-sizing device. 1,697,917; Jan. 8.
- Kavaney, Charles P., assignor to D. W. B. Kurtz, jr., Bismarck, N. Dak. Automobile signal. 1,728,208; Sept. 17.
- Kayle, Oscar C., Syracuse, N. Y. Cylinder-grinding lap. 1,722,301; July 30.
- Kayle, Oscar C., Syracuse, N. Y. Friction clutch. 1,739,899; Dec. 10.
- Kayle, Oscar C., and L. W. Moulton, assignors, to Brown-Lipe Gear Company, Syracuse, N. Y. Gear-finishing machine. 1,698,953; Jan. 15.
- Kawahara, Takezo. (See Mizoguchi, T., and Kawahara.)
- Kawata, Tel. (See Shiga, Taisan, assignor.)
- Kawatch, Frank J., assignor of one-half to D. Reader, Saranac Lake, N. Y. Recording device for cameras. 1,731,198; Oct. 8.
- Kawneer Company, The. (See Cameron, Carl F., assignor.)
- Kawneer Company, The. (See Plym, Francis J., assignor.)
- Kay, Charles J., Aurora, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Filing apparatus. 1,713,875; May 21.
- Kay, Edgar B., Washington, D. C. Incinerator. 1,700,500; Jan. 29.
- Kay, Edgar H. (See Annand, G. A., and Kay.)
- Kay, Oscar, assignor of one-tenth to B. Ryan, one-twentieth to H. C. Phipps, and one-twentieth to E. R. Phipps, Los Angeles, Calif. Atomizer. 1,733,413; Oct. 29.
- Kay, Samuel T. (See Breitenbach, H. P., O'Neill, and Kay.)
- Kayan, Fritz, assignor to William F. Sprague & Co., Inc., New York, N. Y. Mechanical musical instrument. 1,734,770; Nov. 5.
- Kayatt, Phillip J., Yonkers, assignor to American Neon Light Corporation, New York, N. Y. Insulator. 1,738,009; Dec. 3.
- Kaye, Clara, executrix. (See Kaye, John A.)
- Kaye, Frank, sr. (See Braungart, G., jr., and Kaye.)
- Kaye, James W., West Orange, N. J. Steam trap. 1,710,877; Apr. 30.
- Kaye, John A., deceased, Sault Ste. Marie, Ontario, Canada; C. Kaye, executrix. Fountain pen. 1,707,190; Mar. 26.
- Kaye, Joseph M., assignor to Eiseman Kaye Company, Chicago, Ill. Case. 1,728,614; Sept. 17.
- Kaye, Samuel, Columbus, Miss. Bottle refrigerator. 1,705,573; Mar. 19.
- Kaye, Samuel, deceased, Columbus, Miss.; B. G. Hazard and R. Weaver, executors. Siphon circulating system for automobiles. 1,735,613; Nov. 12.
- Kaye, Samuel, Columbus, Miss., and C. A. Frick, Muncie, Ind.; said Frick assignor to said Kaye. Refrigerator. 1,738,476; Dec. 3.
- Kaylite Manufacturing Corporation. (See Hellvik, Rasmus R., assignor.)
- Kaylor, Everett R., Quincy, Ill. Grain shocker. 1,725,355; Aug. 20.
- Kaynee Company, The. (See Oathout, Charles E., assignor.)
- Kaynor, Warren F., assignor to Waterbury Button Company, Waterbury, Conn. Mirror ornament. Des. 79,029; July 23.
- Kaynor, Warren F., assignor to Waterbury Button Company, Waterbury, Conn. Mirror ornament. Des. 79,030; July 23.
- Kay-Petty Mfg. Co. (See Petty, William S., assignor.)



- Kayser Hosiery Motor Mend Corporation. (See Van Dyke, William D., assignor.)
- Kazamias, Michael Th., Lowell, assignor to Draper Corporation, Hopedale, Mass. Shuttle eye. 1,740,023; Dec. 17.
- Kazmazyk, Josef, Friedrichshafen, Bodensee, assignor of one-half to W. Haselmeier, Stuttgart, Wurtemberg, Germany. Massage apparatus. 1,724,842; Aug. 13.
- Kazmer, Frank. (See Servais, C., and Kazmer.)
- Keall, Frank B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,717,387; June 18.
- Kean, Arthur, Manchester, and J. O. Potter, Chinley, England. Vacuum apparatus for stripping carding engines. 1,716,729; June 11.
- Kean, Otto V., Providence, R. I. Scouring device. 1,737,247; Nov. 26.
- Kean, Otto V., Providence, R. I. Seat support. 1,738,831; Dec. 10.
- Kean, Otto V., Providence, R. I. Plaster-board construction. 1,738,832; Dec. 10.
- Kearney, Alex., Roanoke, Va., assignor to Union Railway Equipment Company, Chicago, Ill. Drop brake shaft and mounting therefor. 1,720,078; July 9.
- Kearney, Edward J., Wauwatosa, and J. B. Armitage, Milwaukee, assignors to Kearney & Trecker Corporation, West Allis, Wis. Transmission and control mechanism for machine tools. 1,715,604; June 4.
- Kearney, Edward J., Wauwatosa, and J. B. Armitage, Milwaukee, assignors to Kearney & Trecker Corporation, West Allis, Wis. Machine-tool organization. 1,718,562; June 25.
- Kearney, Edward J., Wauwatosa, and J. B. Armitage, Milwaukee, assignors to Kearney & Trecker Corporation, West Allis, Wis. Machine-tool organization. 1,720,734; July 16.
- Kearney, Edward J., Wauwatosa, and J. Armitage, Milwaukee, assignors to Kearney-Trecker Corporation, West Allis, Wis. Rate-changing mechanism. 1,732,561; Oct. 22.
- Kearney & Trecker Corporation. (See Allen, Frederick C., assignor.)
- Kearney & Trecker Corporation. (See Armitage, Joseph B., assignor.)
- Kearney & Trecker Corporation. (See Kearney, E. J., and Armitage, assignors.)
- Kearney & Trecker Corporation. (See Parsons, Fred A., assignor.)
- Kearns, Bernard A., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machinery. 1,709,671; Apr. 16.
- Kearns, Charles M., Beavertown, Pa. Shock-absorbing device. 1,699,435; Jan. 15.
- Kearns, Michael J., assignor, by mesne assignments, to Struthers Wells-Titusville Corporation, Titusville, Pa. Making spiral auger stems, bits, and substitutes. 1,711,231; Apr. 30.
- Kearns, Oliver W., Dayton, Ohio. Display stand. Des. 77,643; Feb. 5.
- Kearsley, William K., jr., Schenectady, N. Y., assignor to General Electric Company. X-Ray apparatus. 1,698,334; Jan. 8.
- Kearsley, William K., Schenectady, N. Y., assignor to General Electric Company. Electric switching arrangement. 1,740,405; Dec. 17.
- Keating, Bernard J., Kearney, assignor to Dressel Railway Lamp & Signal Company, Arlington, N. J. Signal lamp. 1,709,855; Apr. 23.
- Keatley, Clarence R. (See Hyle, J. A., and Keatley.)
- Keator, Edward O., Dayton, Ohio. Cable clip. 1,722,000; July 23.
- Keays, Robert J., and E. I. Coffey, San Francisco, Calif. Filing device. Re17,421; Sept. 3.
- Keck, George S., Pasadena, Calif., assignor to Pilot Ray Corporation, Wilmington, Del. Dirigible headlight mechanism. 1,702,513; Feb. 19.
- Keck, George S., Pasadena, assignor to The International Controlled Lamp Company, Los Angeles, Calif. Dirigible-headlight mechanism. 1,732,474; Oct. 22.
- Keck, George S., Pasadena, Calif., assignor to Pilot Ray Corporation, Wilmington, Del. Dirigible headlight for automobiles. 1,735,437; Nov. 12.
- Keck, George S., Pasadena, Calif., assignor to Pilot Ray Corporation, Wilmington, Del. Dirigible headlight. 1,740,178; Dec. 17.
- Keck, John H., Gillette, Wyo. Pipe driving and pulling machine. 1,707,123; Mar. 26.
- Keck, Theodore A., jr., Richmond, Va. Demountable rim. 1,702,163; Feb. 12.
- Keddy, Roy C., West Somerville, Mass. Electrically-operated-apparatus protector. 1,697,979; Jan. 8.
- Keddy, Roy C., West Somerville, Mass. Vehicle signal. 1,712,887; May 14.
- Keebler, Paul T. (See Bergquist, H., and Keebler.)
- Keefe, Avery R., Canton, Ohio. Lawn trimmer. 1,727,067; Sept. 3.
- Keefe, Thomas M. (See Warner, C. W., and Keefe.)
- Keeler, Charles R., Baltimore, Md. Combined spool holder and tensioner. 1,730,431; Oct. 8.
- Keeler, Walter L., Chambersburg, Pa. Floor-polishing attachment for vacuum cleaners. 1,697,918; Jan. 8.
- Keeler, Walter L., assignor to W. G. Wolf, Chambersburg, Pa. Floor waxing and polishing machine. 1,736,446; Nov. 19.
- Keeler, Walter L., assignor to The Wolf Co., Chambersburg, Pa. Automatic economizer and temperature regulator for electric irons. 1,739,002; Dec. 10.
- Keegan, Patrick, Fall River, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. 1,741,114; Dec. 24.
- Keehnel, Roy B., Independence, Mo. Vending machine. 1,739,238; Dec. 10.
- Keel, Charles H., trustee. (See Thurston, Arthur L., assignor.)
- Keel, Charles H., trustee. (See Thurston, A. L., and Booth, assignors.)
- Keele, Lee O. (See Keele, Ralph M., assignor.)
- Keele, Ralph M., assignor of one-half to L. O. Keele, San Francisco, Calif. Neck brush. 1,714,503; May 28.
- Keeler, Alonzo R., Altona, Ill. Corn-snapping rolls and the like. 1,736,347; Nov. 19.
- Keeler Brass Company. (See Keeler, George E., assignor.)
- Keeler, Burrell A., Toledo, Ohio, and J. Frumaveller, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Heater for hot-water systems for railway cars. 1,725,924; Aug. 27.
- Keeler, George E., assignor to Keeler Brass Company, Grand Rapids, Mich. Making screws. 1,717,388; June 18.
- Keeler, John M., assignor of one-half to C. R. Welsh, New Brighton, Pa. Convertible faucet. 1,740,602; Dec. 24.
- Keeler, John N., Cleveland, assignor to Continental Greenhouse Mfg. Company, Cuyahoga County, Ohio. Greenhouse construction. 1,737,766; Dec. 3.
- Keeler, Max N., Champaign, Ill. Wire-twisting tool. 1,714,041; June 11.
- Keeley, Clarence H., Van Nuys, Calif. Cuckoo horn. 1,722,148; July 23.
- Keeling, Isaac N., Tomahawk, Ark., assignor of one-fourth to A. J. Parks, Marshall, Ark. Mechanical movement. 1,708,888; Apr. 9.
- Keelor, Everett R. (See Jandus, H. S., and Keelor.)
- Kee-Lox Manufacturing Company. (See Vossburg, Albert L., assignor.)
- Keema, Alexander W., Woonsocket, R. I. Shut-off valve. 1,726,302; Aug. 27.
- Keen, Benjamin, Brighton Beach, N. Y. Cardcase. 1,710,828; Apr. 30.
- Keen, John S., Philadelphia, Pa. Push pole for locomotives. 1,731,138; Oct. 8.
- Keen, John S., Philadelphia, and F. B. Deans, Sharon Hill, Pa. Locomotive. 1,720,903; July 16.
- Keen, Ray, Ellensburg, Wash. Map holder. 1,699,436; Jan. 15.
- Keen Waving Company. (See Erb, Edmund M., assignor.)
- Keen Waving Company, Incorporated. (See Carlough, Howard W., assignor.)
- Keenan, Charles J., E. P. Kennedy, and G. H. Kirsch, San Francisco, Calif., assignors to Alaska Pulp and Paper Company. Pulp-forming machine. Re17,303; May 28.
- Keenan, George A., Los Angeles, Calif. Shoe cleaner and dirt dispenser. 1,711,116; Apr. 30.
- Keenan, Thomas, assignor of one-half to W. A. Trauth, Brooklyn, N. Y. Oil-burner apparatus. 1,732,605; Oct. 22.
- Keenan, Walter M., New York, assignor to T. E. Murray, Brooklyn, N. Y. Boiler. 1,731,577; Oct. 15.
- Keenan, William J. (See Gydesen, A., Froberg, and Keenan.)
- Keene, Alvin. (See Carpenter, C. H., and Keene.)
- Keene, Alvin D. (See Carpenter, C. H., and Keene.)
- Keene, Alvin D., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heater unit. 1,707,308; Apr. 2.
- Keene, Walter P., Los Angeles, Calif. Safety razor. 1,726,570; Sept. 3.
- Keener, Harry E., Denver, Colo. Refrigerator. 1,707,484; Apr. 2.
- Keeney, Charles H., Milwaukee, assignor to Berlin-Chapman Company, Berlin, Wis. Continuous cooker. 1,721,562; July 23.
- Keeney, Don E., assignor to A C Spark Plug Company, Flint, Mich. Service indicator. 1,707,728; Apr. 2.
- Keeney, Don E., assignor to A C Spark Plug Company, Flint, Mich. Instrument panel. 1,712,959; May 14.
- Keeney, Don E., assignor to A C Spark Plug Company, Flint, Mich. Bracket for mounting instruments on panels. 1,731,199; Oct. 8.
- Keeney, Don E., assignor to A C Spark Plug Company, Flint, Mich. Instrument-panel design. 1,735,904; Nov. 19.
- Keeney, Frank H., assignor to National Sewing Machine Company, Belvidere, Ill. Electrically driven and lighted sewing machine. 1,711,792; May 7.
- Keeperts, Harry H., deceased; The Geo. O. Harter Bank, administrator, Canton, Ohio, assignor, by mesne assignments, to B. Wickliffe Twyman, Milwaukee, Wis. Counterweight means for crank shafts and forming and attaching. 1,705,187; Mar. 12.
- Keeran, Charles R., Chicago, Ill. Mechanical pencil. 1,723,787; Aug. 6.
- Keeran, Charles R., Evanston, assignor to Swanberg Manufacturing Company, Chicago, Ill. Pencil clip. 1,700,410; Jan. 29.
- Keeran, Joseph H., Ankeny, Iowa. Paper and mail box. 1,712,827; May 14.
- Keese, Beverly W., assignor to Wisconsin Parts Company, Oshkosh, Wis. Brake mechanism. 1,715,416; June 4.



- Keethes, Catherine V., St. Louis, Mo. Ornamental flower pin. 1,710,627; Apr. 23.
- Keffer, Allen W., Normal, Ky. Smoker's outfit. 1,739,239; Dec. 10.
- Kehawke Manufacturing Co. (See Hawkinson, Paul E., assignor.)
- Kehder, Henry E., Huey, Ill. Valve-truing machine. 1,731,535; Oct. 15.
- Kehm, August, Chicago, Ill. Support. 1,710,422; Apr. 23.
- Kehoe, Basil T., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Rivet-calking device. 1,729,346; Sept. 24.
- Kehoe, James J., jr., Toronto, Ontario, Canada. Dishwashing apparatus. 1,720,332; July 9.
- Kehoe, Mark L. J., Chicago, Ill. Dirt collector for bowling-alley pits. 1,700,264; Jan. 29.
- Kehoe, William E., San Francisco, Calif. Display stand. Des. 78,976; July 16.
- Kehoe, William E., San Francisco, Calif. Display stand. Des. 78,977; July 16.
- Kehoe, William E., San Francisco, Calif. Display stand. Des. 79,087; July 30.
- Kehoe, William E., San Francisco, Calif. Display stand. Des. 79,088; July 30.
- Kehoe, William E., San Francisco, Calif. Display dress and coat hanger. Des. 79,968; Nov. 26.
- Kehoe, William E., San Francisco, Calif. Display dress and coat hanger. Des. 79,969; Nov. 26.
- Kehren, Gottfried, Dusseldorf, Germany. Pit furnace. 1,698,367; Jan. 8.
- Keichline, Anna W., Bellefonte, Pa. Bed for apartments. 1,736,653; Nov. 19.
- Keidel, Frank, Elmhurst, assignor to The International Seal and Knot Protector Co., New York, N. Y. Seal. 1,738,252; Dec. 3.
- Kell, Charles R., Tiffin, Ohio, assignor to United States Glass Company, Pittsburgh, Pa. Goblet or similar article. Des. 77,362; Jan. 1.
- Kell, Francis & Son, Inc. (See Hansen, Herman, assignor.)
- Kell, Lewis E., assignor to Railway Locomotor Company, Chicago, Ill. Power-transmission mechanism for railroad rolling stock. 1,710,360; Apr. 23.
- Keilholtz, Lester S., and E. J. Barney, assignors to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,701,569; Feb. 12.
- Keim, Elisha B., Philadelphia, Pa. Switch heater. 1,707,016; Mar. 26.
- Keim, Lester, Pasadena, assignor to Oil Well Supply Company, Pittsburgh, Pa. Counterbalancing means for pumping apparatus. 1,722,096; July 23.
- Keinath, Karl, Augsburg, Germany. Adjustable sofa arm. 1,720,842; July 16.
- Keiner, Erich. (See Krech, R., and Keiner.)
- Keiner, Henry A., Kew Gardens, N. Y. Cooking device. 1,725,521; Aug. 20.
- Keining, Gustav, Soest, Germany. Typewriting machine. 1,711,893; May 7.
- Keiper, George J., Scranton, Pa. Steamer. 1,714,311; May 21.
- Keir, William H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric switch. 1,732,723; Oct. 22.
- Keiser, Arthur J., assignor to The Bircher Co., Inc., Rochester, N. Y. Envelope-opening machine. 1,703,738; Feb. 26.
- Keiser, James W., Huron, S. Dak. Artificial-stone marker. 1,730,463; Oct. 8.
- Keiser, Walter, assignor to The Air Conditioning and Engineering Co., St. Louis, Mo. Ventilating system. 1,714,562; May 28.
- Keiser, Walter, assignor to The Air Conditioning and Engineering Co., St. Louis, Mo. Air-actuated switch. 1,720,180; July 9.
- Keister, E. L., et al. (See Brown, William S., assignor.)
- Keith, Charles W., assignor to D. K. Stephenson, Denver, Colo. Ensilage cutter. Re17,315; June 4.
- Keith, Clyde R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency translating circuits. 1,700,536; Jan. 29.
- Keith, David F., Toronto, Ontario, Canada. Refrigerating device. 1,740,737; Dec. 24.
- Keith, George, London, England, assignor, by mesne assignments, to The Surface Combustion Company, Inc., New York, N. Y. Gas-burner installation. 1,701,500; Feb. 12.
- Keith, George, London, England, assignor, by mesne assignments, to The Surface Combustion Company, Inc., New York, N. Y. Gas governor. 1,722,666; July 30.
- Keith, George, London, England, assignor, by mesne assignments, to The Surface Combustion Company, Inc., New York, N. Y. Relay control valve. 1,730,150; Oct. 1.
- Keith, Hazel V., et al. (See Keith, Roy, assignor.)
- Keith, Henry M. (See Chamness, Grover C. and G. E., Kane, and Keith.)
- Keith, Marion, St. Louis, Mo. Window-shade holder. 1,703,344; Feb. 26.
- Keith, Robert R., Hinsdale, Ill., assignor to International Harvester Company. Rim for motor-truck wheels. 1,740,738; Dec. 24.
- Keith, Roy, assignor to C. P. Bobe and H. V. Keith, St. Louis, Mo. Breast pump. 1,719,982; July 9.
- Keith, William G., Chicago, Ill., assignor to Welsbach Traffic Signal Company, Philadelphia, Pa. Electric flasher. 1,738,713; Dec. 10.
- Keith, William G., Chicago, Ill., assignor to Welsbach Traffic Signal Company, Philadelphia, Pa. Electric flasher. 1,738,714; Dec. 10.
- Keithley, Ernest C., Detroit, Mich., assignor to The Super-heater Company, New York, N. Y. Boiler. 1,735,464; Nov. 12.
- Keiver, Charles W. (See Lambert, M. K., and Keiver.)
- Kelber, Christian. (See Flammer, E., and Kelber.)
- Kelch, J. W. (See Roberts, Thomas H., assignor.)
- Kelch, James W. (See Roberts, T. H., and Holmes, assignors.)
- Kelch Ventilating Heater Company. (See Sunday, James J., assignor.)
- Kellam, David S., Atlanta, Ga. Shut-off for fire hose. 1,701,411; Feb. 5.
- Kelle, Arthur C., Canton, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Tank lining for electric switches. 1,719,269; July 2.
- Keller, Albert T., Bethlehem, Pa., assignor to Bethlehem Steel Company. Manufacture of structural units. 1,705,618; Mar. 19.
- Keller, Albert T., assignor to Bethlehem Steel Company, Bethlehem, Pa. Making car-wheel rims. 1,713,699; May 21.
- Keller, Albert T., Bethlehem, Pa., assignor to Bethlehem Steel Company. Balancing device for rolls in rolling mills. 1,727,122; Sept. 3.
- Keller, Albert T., Bethlehem, and R. H. Stevens, Johnstown, Pa., assignors to Bethlehem Steel Company. Drive for roller tables in rolling mills. 1,735,767; Nov. 12.
- Keller, Arthur C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Combined recorder and reproducer. 1,733,607; Oct. 29.
- Keller, Clyde W., Kansas City, Mo. Mixing device. 1,700,895; Feb. 5.
- Keller, Cornelius H., San Francisco, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y. Froth-fotation concentration of ores. 1,728,764; Sept. 17.
- Keller, Eduard, Freiburg, Germany. Electric table-lamp alarm clock. Des. 77,778; Feb. 19.
- Keller, Ferdinand, and K. Schnitzspahn, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Diazosalt preparations for dyeing and printing. 1,717,453; June 13.
- Keller, Gottlieb. (See Schonbrunn, J., and Keller.)
- Keller, Gottlieb, Brugg, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Nonoxidizing heating furnace. 1,735,866; Nov. 19.
- Keller, Gottlieb, Brugg, and E. Wirz, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Electric-furnace construction. 1,697,188; Jan. 1.
- Keller, Harry H., Ventnor, N. J. Reinforced rubber and making it. 1,710,481; Apr. 23.
- Keller, Henry G., Glenside, Pa. Variable-lift wing for aeroplanes. 1,742,082; Dec. 31.
- Keller, John F., Ottoville, Ohio. Toy windmill. 1,734,858; Nov. 5.
- Keller, Joseph M., Kaw, Okla. Auxiliary centering chuck. 1,699,295; Jan. 15.
- Keller, Jule M., St. Louis, Mo., and J. H. Ames, deceased, by R. P. Kaufman, administratrix, assignors to American Car and Foundry Company, New York, N. Y. Conveyer. 1,699,538; Jan. 22.
- Keller, Karl. (See Kalischer, G., and Keller.)
- Keller, Karl. (See Kalischer, G., Scheyer, and Keller.)
- Keller, Karl O., assignor to William Doxford & Sons, Limited, Sunderland, England. Packing device for use in fluid-pressure engines. 1,728,765; Sept. 17.
- Keller, Keith K., Minneapolis, Minn. Capsule. 1,701,811; Feb. 12.
- Keller, Leo P., Columbus, Ohio. Accessory for vacuum cleaners. 1,726,741; Sept. 3.
- Keller, Mark G., Oakland, Calif. Juvenile play device. 1,726,028; Aug. 27.
- Keller Mechanical Engineering Corporation. (See Shaw, John C., assignor.)
- Keller Mechanical Engineering Corporation. (See Shaw, John C. and R. D., assignors.)
- Keller, Otto. (See Hodlick, C. E., and Keller.)
- Keller, Paul E. (See Daun, C. L., and Keller.)
- Keller, Rex E., Los Angeles, Calif. Transmission. 1,734,491; Nov. 5.
- Keller, Thomas H., Lancaster, Pa. Artificially aging tobacco. 1,729,482; Sept. 24.
- Keller, Will E., Los Angeles, Calif. Method of and apparatus for pouring concrete walls and floors of steel and concrete frame buildings. 1,701,113; Feb. 5.
- Keller, William F., Decatur, Ill. Automobile headlight. 1,723,788; Aug. 6.
- Keller, William H., Inc. (See Brantingson, Gustaf S., assignor.)
- Keller, William H., Inc. (See Shaff, Ernest H., assignor.)
- Keller, William H., Inc. (See Shaff, E. H., and Briegel, assignors.)
- Kellert, Charles L., Baltimore, Md. Light color screen. 1,740,603; Dec. 24.
- Kellet, William W., assignor to B. B. T. Corporation of America, Philadelphia, Pa. Airplane landing. 1,723,974; Aug. 6.
- Kelley, Duane S., Portland, Oreg. Pliers. 1,710,929; Apr. 30.
- Kelley, William G., New York, N. Y. Partition strip for composition flooring. 1,740,179; Dec. 17.



- Kelley Color Laboratory Inc. (See Kelley, W. V. D., and Tronolone, assignors.)
- Kelley, Daniel J., New York, N. Y. Sign. 1,713,386; May 14.
- Kelley, Edward F., assignor to The Raybestos Company, Bridgeport, Conn. Automobile brake. 1,727,717; Sept. 10.
- Kelley, Edward W. (See Weaver, G. E., and Kelley.)
- Kelley, Edwin V. (See Connell, F. B., and Kelley.)
- Kelley, Floyd C., Schenectady, N. Y., assignor to General Electric Company. Treatment of metals. 1,718,563; June 25.
- Kelley, Frank C., Long Beach, assignor of one-half to E. W. Riggle, Los Angeles, Calif. Well apparatus. 1,737,248; Nov. 26.
- Kelley, Harry G., Portland, Oreg. Work support for cutlery-sharpening machines. 1,726,571; Sept. 3.
- Kelley, Henry D., Pittsburgh, Pa. Welding. 1,727,345; Sept. 10.
- Kelley, Jess D. (See Batcheller, H. G., and Kelley.)
- Kelley, John E., Larchmont, and B. F. Jancke, assignors to Eastern Laboratories, Inc., New York, N. Y. Casing for a hair drier. Des. 78,978; July 16.
- Kelley, Patrick J., assignor to The Ohio Brass Company, Mansfield, Ohio. Galvanizing mechanism. 1,713,232; May 14.
- Kelley, Patrick J., assignor to The Ohio Brass Company, Mansfield, Ohio. Coating process. 1,713,233; May 14.
- Kelley, Robert C., Chautauqua, Kans. Animal trap. 1,726,493; Aug. 27.
- Kelley, Robert C., Chautauqua, Kans. Bird trap. 1,731,163; Oct. 8.
- Kelley, Thomas D., London, England. Opposed-piston internal-combustion engine. 1,723,865; Aug. 6.
- Kelley, Thomas L., Salem, S. Dak. Safety-line terret. 1,738,833; Dec. 10.
- Kelley, William J., Minneapolis, Minn. Medical appliance. 1,741,313; Dec. 31.
- Kelley, William V. D., Newark, N. J., assignor, by mesne assignments, to Max B. Du Pont Vitacolor Corporation, Los Angeles, Calif. Color photograph and producing same. 1,712,439; May 7.
- Kelley, William V. D., Jersey City, and D. Tronolone, Fort Lee, assignors to Kelley Color Laboratory, Inc., Palisade, N. J. Stereoscopic picture. 1,729,617; Oct. 1.
- Kellie, Francis M., Wauwata, Nebr. Grain separator. 1,706,787; Mar. 26.
- Kellner, Alexis. (See Hannebohn, Curt W. A., assignor.)
- Kellner, Louis, assignor to Jefferson Electric Company, Chicago, Ill. Switch. 1,733,267; Oct. 29.
- Kellogg, Alfred E., assignor of one-twelfth to J. M. Kopley, one-twelfth to F. Kutz, one-twelfth to C. E. Anderson, one-twelfth to J. V. Garland, one-twelfth to V. N. Thompson, and one-twelfth to W. B. Kibbey, El Centro, Calif. Grease gun. 1,729,219; Sept. 24.
- Kellogg Company. (See Wilder, Harold K., assignor.)
- Kellogg, De Forest, Los Angeles, Calif. Tire-casing support for buffing. 1,724,664; Aug. 13.
- Kellogg, Dorcey E. (See Dunmire, R. P., and Kellogg.)
- Kellogg, Dorcey E., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,716,587; June 11.
- Kellogg, Dorcey E., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,716,641; June 11.
- Kellogg, Earl D., assignor to Kellogg Specialty Company, Stockton, Calif. Reptile-venom-antidote container. 1,702,654; Feb. 19.
- Kellogg, Edgar B. (See Wright, R., and Kellogg.)
- Kellogg, Edward W. (See Rice, C. W., and Kellogg.)
- Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Sound-reproducing apparatus. 1,707,617; Apr. 2.
- Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Damping motion. 1,723,864; Aug. 6.
- Kellogg, Edward W., Schenectady, N. Y., assignor to General Electric Company. Sound-recording apparatus. 1,740,406; Dec. 17.
- Kellogg, Frank P. (See Redfield, John H., assignor.)
- Kellogg, Henry M., Milford, Conn. Fastening device. 1,741,942; Dec. 31.
- Kellogg, Herbert C., Detroit, Mich. Compressor. 1,740,924; Dec. 24.
- Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Finish-strip assembly. 1,703,939; Mar. 5.
- Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Machine for forming interchangeable fashioned moldings. 1,710,261; Apr. 23.
- Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Forming fashioned molding. 1,710,262; Apr. 23.
- Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Finish-strip assembly. 1,720,904; July 16.
- Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Hinge. 1,723,042; Aug. 6.
- Kellogg, Homer G., assignor to Motor Products Corporation, Detroit, Mich. Molding. 1,724,601; Aug. 13.
- Kellogg, Leroy D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Radio receiving system. 1,727,123; Sept. 3.
- Kellogg, M. W., Company, The. (See Mikesh, Martin A., assignor.)
- Kellogg Manufacturing Company. (See Hazard, George E., assignor.)
- Kellogg, Robert B., Long Beach, Calif. Packing and making the same. 1,734,470; Nov. 5.
- Kellogg, Samuel E., Johnstown, Pa. Typo-photo-film process. 1,713,660; May 21.
- Kellogg Specialty Company. (See Kellogg, Earl D., assignor.)
- Kellogg Switchboard & Supply Co. (See Berg, Hans, assignor.)
- Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
- Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
- Kellogg Switchboard and Supply Company. (See Freers, Fred E., assignor.)
- Kellogg Switchboard and Supply Company. (See Grout, Martin B., assignor.)
- Kellogg Switchboard and Supply Company. (See Ide, Harry E., assignor.)
- Kellogg Switchboard and Supply Company. (See Kellogg, Leroy D., assignor.)
- Kellogg Switchboard and Supply Company. (See Knudsen, Anton M., assignor.)
- Kellogg Switchboard and Supply Company. (See Robinson, Clarence M., assignor.)
- Kellogg Switchboard and Supply Company. (See Sauer, Louis B., assignor.)
- Kellogg Switchboard and Supply Company. (See Sauer, L. B., and Yanochowski, assignors.)
- Kellogg Switchboard and Supply Company. (See Stazak, Michael B., assignor.)
- Kellogg Switchboard and Supply Company. (See Wallace, Bert A., assignor.)
- Kellogg Switchboard & Supply Company. (See Yanochowski, George A., assignor.)
- Kellow, James H., Wichita Falls, Tex., assignor of one-half to E. Smith and H. D. Davis, National Military Home, Kans. Ladder brace and ring support. 1,715,605; June 4.
- Kellum, Mary G., et al. (See Murdock, Sidney A., assignor.)
- Kellum, Orlando E., et al. (See Murdock, Sidney A., assignor.)
- Kelly, Adelbert F., Spokane, Wash. Nozzle. 1,705,188; Mar. 12.
- Kelly, Andrew, San Francisco, Calif. Clinging figure. 1,710,989; Apr. 30.
- Kelly, Bert F., Indianapolis, Ind. Silvering and beveling small mirrors. 1,724,204; Aug. 13.
- Kelly Bros. Co. (See Baker, Lloyd, assignor.)
- Kelly, Charles L., Los Angeles, Calif. Rosary in pictures. 1,733,376; Oct. 29.
- Kelly, Claude E., Preston, Iowa. Control mechanism for power plants. 1,734,037; Nov. 5.
- Kelly, Frank M. (See Murray, R. T., and Kelly.)
- Kelly, Frank W., and A. H. Luedicke, assignors to Gridley Dairy Co., Milwaukee, Wis. Pasteurizing apparatus. 1,738,834; Dec. 10.
- Kelly, Fred G., Jr., Ensley, Ala., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,702,444; Feb. 19.
- Kelly, George B., Charles City, Iowa. Washing machine. 1,706,405; Mar. 26.
- Kelly, George L., Houston, Tex. Trussless support for roofs and the like. 1,737,049; Nov. 26.
- Kelly, George R., Dover, Mo. Horse collar. 1,730,215; Oct. 1.
- Kelly, Harry G., Omaha, Nebr. Humidifier. 1,725,005; Aug. 20.
- Kelly, Henry D., Kansas City, Mo. Coffee urn. 1,710,218; Apr. 23.
- Kelly, Henry D., Kansas City, Mo. Leacher bucket for coffee urns. 1,736,265; Nov. 19.
- Kelly, Hugh W., Woodbridge, N. J. Track torpedo and producing the same. 1,718,153; June 18.
- Kelly, Jess C., Cambridge, Ohio. Candlestick. Des. 78,400; Apr. 30.
- Kelly, Jess C., Cambridge, Ohio. Goblet or similar article. Des. 79,431; Sept. 17.
- Kelly, Jess C., Cambridge, Ohio. Vase. Des. 79,467; Sept. 24.
- Kelly, Jess C., Cambridge, Ohio. Glass tray or similar article. Des. 79,725; Oct. 29.
- Kelly, John A., Brooklyn, N. Y. Making shoes. 1,714,271; May 21.
- Kelly, John A., Lakewood, Ohio, assignor to J. Livingston & Co., New York, N. Y. Adjustment plate for outlet-box closures. 1,722,430; July 30.
- Kelly, Joseph A. (See Trainor, Theodore R., assignor.)
- Kelly, Leo J., Hornell, N. Y. Electric-iron stand. 1,727,170; Sept. 3.
- Kelly, Loomis L., Salem, Va. Smoke-exhaust apparatus. 1,726,901; Sept. 3.
- Kelly Manufacturing Co. (See Kelly, William J., assignor.)
- Kelly, Michael J., assignor to Hope Foundry & Machine Co., Inc., Hilton, N. J. Ice-box pan. 1,699,396; Jan. 15.
- Kelly Reamer Company, The. (See Daw, Marvin C., assignor.)
- Kelly Reamer Company, The. (See Lennon, Patrick T., assignor.)
- Kelly-Springfield Tire Company. (See Graybill, Tully, assignor.)
- Kelly, Sylvester W., Chicago, Ill. Abdominal exercising device. 1,697,957; Jan. 8.



- Kelly, Thomas D., London, England. Regulating the working of internal-combustion engines. 1,705,408; Mar. 12.
- Kelly, Wallace W., Racine, Wis. Power-transmitting mechanism. 1,739,075; Dec. 10.
- Kelly, William D., Western Springs, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric heater. 1,742,083; Dec. 31.
- Kelly, William H., assignor of one-fourth to J. N. Pedersen and one-fourth to A. C. Pedersen, Reno, Nev. Directional signal for automobiles. 1,732,165; Oct. 15.
- Kelly, William J., assignor to Kelly Manufacturing Co., Clinton, Iowa. Upholstering chair arms. 1,717,042; June 11.
- Kelly, William M., Westfield, N. J. Making printing plates. 1,707,729; Apr. 2.
- Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Ductor-roll mechanism. 1,700,680; Jan. 29.
- Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Sheet-handling machine. 1,700,681; Jan. 29.
- Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Sheet-feeding mechanism. 1,717,454; June 18.
- Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Printing press. 1,737,502; Nov. 26.
- Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Printing press. 1,741,848; Dec. 31.
- Kelly, William W., Cleveland, Ohio. Display sales rack. 1,712,080; May 7.
- Kelly, William W., Cleveland, Ohio. Corn popper. 1,721,124; July 16.
- Kelm, Richard E., assignor to American Heat Preserver Co., Milwaukee, Wis. Draft regulator. 1,722,801; July 30.
- Kelp, Gustav B. M., Hamburg, Germany. Temperature-control device. 1,725,006; Aug. 20.
- Kelsch, Clement J., Levallois Perret, France. Body mounting. 1,707,268; Apr. 2.
- Kelsea, Clarence H., Belmont, assignor to Peter Gray & Sons, Inc., Cambridge, Mass. Method of and apparatus for making projector units. 1,712,147; May 7.
- Kelsea, Clarence H., Belmont, assignor to Peter Gray & Sons, Inc., Cambridge, Mass. Illuminating apparatus. 1,712,217; May 7.
- Kelsen, Clarence H., Belmont, assignor to Peter Gray & Sons, Inc., Cambridge, Mass. Lantern. 1,732,407; Oct. 22.
- Kelsey, Charles A., Schenectady, N. Y., assignor to General Electric Company. Multispeed motor control. 1,719,889; July 9.
- Kelsey-Hayes Wheel Corporation. (See Batie, Joseph E., assignor.)
- Kelsey-Hayes Wheel Corporation. (See Booth, William N., assignor.)
- Kelsey-Hayes Wheel Corporation. (See Frick, William, assignor.)
- Kelsey-Hayes Wheel Corporation. (See Jacobi, E. R., and Le Jeune, assignors.)
- Kelsey-Hayes Wheel Corporation. (See Le Jeune, F. H., and Jacobi, assignors.)
- Kelsey Wheel Company. (See Batie, Joseph E., assignor.)
- Kelso, James E., Rochester, N. Y. Napping machine. 1,702,696; Feb. 19.
- Kelso, Joseph, Bellevue, Iowa. Flowerpot construction. 1,710,878; Apr. 30.
- Kelso, Ralph S. (See Moffatt, J. R., and Kelso.)
- Kelso, William. (See McConway, W. J., and Kelso.)
- Koltie, George R., Woonsocket, R. I., assignor to American Wringer Company, Inc. Clothes wringer. 1,710,224; Apr. 23.
- Kelting, Max, Bochum, Germany. Coke oven. 1,726,494; Aug. 27.
- Keltonik, Stephen, Conemaugh, Pa. Combined inkstand and pen rack. Re17,400; Aug. 13.
- Kelty, Charles R., Milton, Mass. Motor-controlling device. 1,741,721; Dec. 31.
- Kelvinator Corporation. (See Erbach, Frederick R., assignor.)
- Kelvinator Corporation. (See Replogle, John R., assignor.)
- Kelvinator Corporation. (See Sealey, Percy T., assignor.)
- Kelvinator Corporation. (See Spreen, Charles C., assignor.)
- Kelvinator Corporation. (See Wasserfallen, Charles F., assignor.)
- Kemball, Walter F., Westfield, N. J., and H. M. Rugg, assignors to Vacuum Oil Company, New York, N. Y. Display cabinet. 1,713,661; May 21.
- Kember, Robert E., New York, N. Y., assignor to E. E. Lloyd Paper Co., Chicago, Ill. Safety paper. Des. 78,889; July 2.
- Kemble, Thomas S., Cleveland, Ohio, assignor, by mesne assignments, to Universal Gas Electric Company, Lawrence, Kans. Electrical resistance. 1,721,910; July 23.
- Kemble, Thomas S., Cleveland, Ohio, assignor, by mesne assignments, to Universal Gas Electric Company, Lawrence, Kans. Electrical control for electrically-driven vehicles. 1,724,602; Aug. 13.
- Kemble, Thomas S., Cleveland, Ohio, assignor, by mesne assignments, to Universal Gas Electric Company, Lawrence, Kans. Rear-axle construction for automobiles. 1,728,889; Sept. 17.
- Kemble, Thomas S., Lakewood, Ohio, assignor to Universal Gas Electric Company. Oiling system for the gear drives of gas electric auto busses or trucks. 1,714,509; May 28.
- Kemble, Thomas S., Lakewood, Ohio, assignor to Universal Gas Electric Company, Lawrence, Kans. Removable gear for auto busses, trucks, etc. 1,717,511; June 18.
- Kemble, Thomas S., Lakewood, Ohio, assignor to Universal Gas Electric Company, Lawrence, Kans. Electrical resistance. 1,721,911; July 23.
- Kemble, Thomas S., Lakewood, Ohio, assignor to Universal Gas Electric Company, Lawrence, Kans. Torque system for four-wheel drives for auto busses, trucks, etc. 1,728,890; Sept. 17.
- Kemble, Thomas S., Lakewood, Ohio, assignor to Universal Gas Electric Company, Lawrence, Kans. Rear axle for six-wheel trucks. 1,728,891; Sept. 17.
- Kemble, Thomas S., Lakewood, Ohio, assignor to Universal Gas Electric Company, Lawrence, Kans. Spring support for auto busses, etc. 1,728,892; Sept. 17.
- Kemble, Thomas S., Lakewood, Ohio, assignor to Universal Gas Electric Company, Lawrence, Kans. Auxiliary spring and bumper. 1,730,039; Oct. 1.
- Kemerling, Edna, Kimball, Nebr. Tree stand. 1,715,557; June 4.
- Kemet Laboratories Company. (See Cooper, Hugh S., assignor.)
- Kemmerich, William E., Montclair, N. J. Gradual production of gases. 1,729,043; Sept. 24.
- Kemp, Archie R., Towaco, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Continuously-loaded submarine cable. 1,700,766; Feb. 5.
- Kemp, Arthur W., Toronto, Ontario, Canada. Hydroplane. 1,728,937; Sept. 24.
- Kemp, Charles. (See Kemp, Irving, assignor.)
- Kemp, C. M., Mfg. Co., The. (See Kemp, William W., assignor.)
- Kemp, Irving, New York, N. Y. Window grating. 1,730,151; Oct. 1.
- Kemp, Irving, assignor to C. Kemp, New York, N. Y. Locking device for doors. 1,701,076; Feb. 5.
- Kemp, Irving, assignor to C. Kemp, New York, N. Y. Lock. 1,729,784; Oct. 1.
- Kemp, William, St. Louis, Mo. Gas analyzer. 1,727,544; Sept. 10.
- Kemp, William A., Sharon, Pa. Shutter mechanism for motion-picture machines. 1,697,429; Jan. 1.
- Kemp, William W., assignor to The C. M. Kemp Mfg. Co., Baltimore, Md. Barrel heating, drying, and charring apparatus. 1,719,331; July 2.
- Kemper, Albert H. (See Clemens, C. F., and Kemper.)
- Kemper, Albert H., and W. H. Durkin, Dayton, Ohio. Steam boiler. 1,741,633; Dec. 31.
- Kempf, Frank P., Chicago, Ill. Animal doll. Des. 78,356; Apr. 23.
- Kempf, Hubert. (See Elsaesser, E., and Kempf.)
- Kempf, Karl F. W., assignor of one-half to F. G. Garvey, Buffalo, N. Y. Manufacturing key bolts. 1,731,423; Oct. 15.
- Kempf, Wheeler H., Manning, Iowa. Decoy. 1,697,465; Jan. 1.
- Kempin, Stanislaus J., Minneapolis, Minn. Collapsible boat. 1,702,872; Feb. 19.
- Kempter, Fritz, Stuttgart, Germany. Caoutchouc-cutting device. 1,730,821; Oct. 8.
- Kempter, Philip, assignor to Gender, Paeschke & Frey Company, Milwaukee, Wis. Lunch box. 1,737,249; Nov. 26.
- Kempton, Herbert E. and K. F. Gallimore, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,731,719; Oct. 15.
- Kempton, Willard H., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,730,327; Oct. 1.
- Kendall, Allen B., Niagara Falls, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Electromagnet. 1,700,228; Jan. 29.
- Kendall, Allen B., Maywood, Ill. Relay. 1,730,216; Oct. 1.
- Kendall, Burton W., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency signaling. 1,734,132; Nov. 5.
- Kendall, Charles H. L., Weatherford, Okla. Internal-combustion engine. 1,721,738; July 23.
- Kendall, Donald S. (See Novotny, E. E., and Kendall.)
- Kendall, Edgar H., assignor to The Alliance Machine Company, Alliance, Ohio. Crane. 1,727,206; Sept. 3.
- Kendall, Edgar H., assignor to The Alliance Machine Company, Alliance, Ohio. Ladle trolley. 1,741,315; Dec. 31.
- Kendall, George E., Kalamazoo, Mich. Method of and apparatus for manufacturing imitation marble. 1,701,619; Feb. 12.
- Kendall, George E., Kalamazoo, Mich. Manufacturing artificial stone. 1,739,677; Dec. 17.
- Kendall, George M., Boston, Mass. Merchandising device. 1,699,511; Jan. 15.
- Kendall, Ira H., assignor to The Kendall Patents, Inc., Potsdam, N. Y. Coupling device for pipes. 1,703,241; Feb. 26.
- Kendall, James M., Scotia, N. Y., assignor to General Electric Company. Electrical apparatus. 1,701,374; Feb. 5.
- Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Vibrating screen. 1,705,619; Mar. 19.



- Kendall, Myron A., Aurora, Ill., assignor to Stephens-Adamson Mfg. Co. Loading apparatus. 1,708,925; Apr. 9.
- Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Carrier for conveyers. 1,733,541; Oct. 29.
- Kendall Patents, Inc., The. (See Kendall, Ira H., assignor.)
- Kendall, Sydney W., Westminster, London, England. Manufacture of white-lead pigment. 1,706,301; Mar. 19.
- Kendall, Sydney W., Ealing, London, England. Proofing cellulosic, animal, and other substances against insects, animals, and organisms. 1,739,840; Dec. 17.
- Kendall, William G., Newark, N. J. Combined hinge, compact plate holder, and ejector. 1,700,059; Jan. 22.
- Kendall, William G., Newark, N. J. Compact holder. 1,704,616; Mar. 5.
- Kendall, William G., Newark, N. J. Holding ring for compact plates. 1,714,376; May 21.
- Kendall, William G., Newark, N. J. Holding ring for compact plates. 1,734,859; Nov. 5.
- Kendall, William G., Newark, N. J. Holding means for vanity cases. 1,734,860; Nov. 5.
- Kendis, Michael B., Sedalia, Mo. Garment hanger. 1,725,457; Aug. 20.
- Kendle, Cary W. (See Forseille, Lucien F., assignor.)
- Kendrick, William A., Washington, D. C., assignor to The American Laundry Machinery Company, Norwood, Ohio. Apron control. 1,713,700; May 21.
- Kendrick, William D., assignor to Safety Lock Handle and Valve Company, Phoenix, Ariz. Angle cock. 1,697,278; Jan. 1.
- Kenilworth Manufacturing Co. (See Kosofsky, Morris, assignor.)
- Kenian, Charles H., Newark, N. J. Button. 1,720,079; July 9.
- Kenly, Henry C., Short Hills, N. J. Automobile radiator-compact ornament. Des. 73,104; Mar. 26.
- Kennedy, Absalom M. (See Lloyd, S. J., and Kennedy.)
- Kennedy, Albert H., Rockport, Ind. Flush-tank valve. 1,705,867; Mar. 12.
- Kennedy, Alexander D., Chicago, Ill., and J. A. Gillies, Dodge City, Kans., assignors to Du-Wel Steel Products Co., Chicago, Ill. Wrench. 1,728,552; Sept. 17.
- Kennedy, Arthur L., Keene, N. H., assignor to Plastic, Inc. Making paper and product thereof. 1,730,009; Oct. 1.
- Kennedy, Aubrey M., New York, N. Y. Aeroplane. 1,710,225; Apr. 23.
- Kennedy, Carlton L., Braintree, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Induction motor. 1,726,230; Aug. 27.
- Kennedy, Carlton L., Braintree, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Induction motor. 1,726,231; Aug. 27.
- Kennedy, Carlton L., Braintree, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Induction motor. 1,726,232; Aug. 27.
- Kennedy, Cornelius R., et al. (See Beaulieu, Lester F., assignor.)
- Kennedy Corporation. (See Lynch, G. G., and Tillery, assignors.)
- Kennedy, Daniel J., Yonkers, N. Y. Breast protector. 1,721,739; July 23.
- Kennedy, David J. (See Waterston, Charles L., assignor.)
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, Typographical distributing machine. 1,698,636; Jan. 8.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, Space-band for linotype machines. 1,702,732; Feb. 19.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, Typographical machine. 1,705,977; Mar. 19.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, Type-metal bar or pig for pot feeders. 1,713,606; May 21.
- Kennedy, Dewey M., Seneca Falls, N. Y. Highway signal. 1,726,669; Sept. 3.
- Kennedy, Edward F., Bethlehem, and L. H. Winkler, Johnstown, assignors to Bethlehem Steel Company, Bethlehem, Pa. Device for heat treatment of metals. 1,704,327; Mar. 5.
- Kennedy, Ernest N., London, England. Extensible fastening device for trunks, suitcases, and the like. 1,705,526; Mar. 19.
- Kennedy, Eugene P. (See Keenan, C. J., Kennedy, and Kirsch.)
- Kennedy, Eugene P., San Francisco, Calif. Pulp-forming machine. 1,697,244; Jan. 1.
- Kennedy, Eugene P., San Francisco, Calif. Mold and ejecting pulp articles therefrom. 1,701,238; Feb. 5.
- Kennedy, Frank. (See Sitkin, John J., assignor.)
- Kennedy, Harry E. (See Mulvany, H. A., and Kennedy.)
- Kennedy, Hugh M., Montreal, Quebec, Canada. Locking device for mail-chute panels. 1,736,917; Nov. 26.
- Kennedy, Hugh M., Montreal, Quebec, Canada. Suspension device for mail-chute panels. 1,736,918; Nov. 26.
- Kennedy, James, and H. Riend, Hollywood, Calif. Pan lifter. 1,716,780; June 11.
- Kennedy, James H., New Orleans, La. Sanitary toilet-seat cover. 1,720,277; July 9.
- Kennedy, John B., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Automatic fastener. 1,741,158; Dec. 31.
- Kennedy, John B., and A. H. De Groote, assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Fastener. 1,720,080; July 9.
- Kennedy, John F., Baltimore, Md. Life belt. 1,704,975; Mar. 12.
- Kennedy, Joseph E., New York, N. Y. Disintegrating apparatus. 1,714,312; May 21.
- Kennedy, Joseph E., New York, N. Y. Apparatus for washing sand and other material. 1,719,332; July 2.
- Kennedy, Joseph E., New York, N. Y. Jaw crusher. 1,719,333; July 2.
- Kennedy, Julian, Pittsburgh, Pa. Steam engine. 1,703,274; Feb. 26.
- Kennedy, Julian, Pittsburgh, Pa. Wear plate for furnaces. 1,709,823; Apr. 16.
- Kennedy, Kenneth B., San Diego, Calif. Pipe coupling. 1,712,273; May 7.
- Kennedy, Leo W., Detroit, Mich. Show case. 1,725,867; Aug. 27.
- Kennedy, Lucille, et al. (See Carlson, Frank J., assignor.)
- Kennedy, Luke F., Schenectady, N. Y., assignor to General Electric Company. Protective arrangement. 1,713,182; May 14.
- Kennedy, Luke F., Schenectady, N. Y., assignor to General Electric Company. Electrical distribution system. 1,722,472; July 30.
- Kennedy, Luke F., Schenectady, N. Y., assignor to General Electric Company. Electric distribution system. 1,727,989; Sept. 10.
- Kennedy, Marshall R., San Francisco, Calif. Game. 1,736,603; Nov. 19.
- Kennedy-McCandless Corporation. (See McCandless, Harry E., assignor.)
- Kennedy, Ralph A. (See Asbury, R. E., and Kennedy.)
- Kennedy, Ridgway R., assignor to Abbotts Dairies, Inc., Philadelphia, Pa. Ice-cream package. 1,731,578; Oct. 15.
- Kennedy, Thomas D., Owen Sound, Ontario, Canada. Stake pocket and stake for vehicles. 1,707,730; Apr. 2.
- Kennedy, Walter, Cliffside, N. J. Gas heater. 1,704,134; Mar. 5.
- Kennedy, William Q., New York, N. Y. Self-centered, non-sighted, second-of-time gun. 1,723,623; Aug. 6.
- Kennerknecht, Adalbert, Cologne, Germany. Bottle closure. 1,707,524; Apr. 2.
- Kennerson, Joseph E., Cliftondale, Mass. Doorcheck. 1,736,602; Nov. 19.
- Kenneweg, Christian H., Pittsburgh, Pa. Internal-combustion engine. 1,733,228; Oct. 29.
- Kenney, Carl L. (See Llewellyn, L., and Kenney.)
- Kenney, Edward F., Bethlehem, Pa., assignor to Bethlehem Steel Company. Heat treatment of railway rails. Re-17,240; Mar. 19.
- Kenney, Edward F., Bethlehem, Pa. Manufacture of irregular-shaped objects. 1,697,063; Jan. 1.
- Kenney, George M., assignor to Kenney Manufacturing Company, Cranston, R. I. Curtain fixture. 1,723,975; Aug. 6.
- Kenney, John A., Burbank, Calif. Distributor. 1,719,770; July 2.
- Kenney, John E., assignor to J. E. Dunne, Portland, Ore. Battery indicator. 1,699,893; Jan. 22.
- Kenney, John E., assignor to Electric Vapo Manufacturing Co., Portland, Ore. Sterilizing vaporizer. 1,711,793; May 7.
- Kenney, Lewis W., Lynnfield, Mass. Last. 1,705,222; Mar. 12.
- Kenney Manufacturing Company. (See Kenney, George M., assignor.)
- Kenney Manufacturing Company. (See Smith, Walter E., assignor.)
- Kenney, Mary A. (See Westcott, Pliny K., assignor.)
- Kenneweg, Christian H., Millvale, assignor to Kenneweg Motors Corporation, Pittsburgh, Pa. Internal-combustion engine. 1,706,693; Mar. 26.
- Kenneweg Motors Corporation. (See Kenneweg, Christian H., assignor.)
- Kennington, William O., London, England, assignor to General Motors Corporation, Detroit, Mich. Vacuum-operated brake. Re17,189; Jan. 8.
- Kensington Machine Works. (See Weinman, George, jr., assignor.)
- Kent, Arthur A. (See Appleby, Thomas, assignor.)
- Kent, Arthur A., Ardmore, Pa. Cabinet for radio receiving apparatus. Des. 78,030; Mar. 19.
- Kent, Arthur A., Ardmore, Pa. Radio speaker. 1,705,925; Mar. 19.
- Kent, Arthur A., Ardmore, Pa. Cabinet. 1,710,482; Apr. 23.
- Kent, Arthur A., Ardmore, Pa. Condenser. 1,713,134; May 14.
- Kent, Arthur A., Ardmore, Pa. Radio apparatus. 1,719,014; July 2.
- Kent, Arthur A., Ardmore, Pa. Transformer. 1,719,057; July 2.
- Kent, Arthur A., Ardmore, Pa. Ignition-governing apparatus. 1,725,522; Aug. 20.
- Kent, Arthur A., Ardmore, Pa. Loudspeaker. 1,727,604; Sept. 10.
- Kent, Arthur A., Ardmore, Pa. Vacuum-tube holder. 1,730,010; Oct. 1.
- Kent, Bert M. (See Becker, Ralph K., assignor.)
- Kent-Blancato Company. (See Blancato, Michele, assignor.)



- Kent, Donald W., Philadelphia, Pa. Treatment of feed water for boilers, condensers, and the like. 1,725,925; Aug. 27.
- Kent, Frank J. (See Suckert, Harold C., assignor.)
- Kent, George C. (See Hall, C. J., and Kent.)
- Kent, Horace L., New York, N. Y. Acoustical apparatus. 1,736,042; Nov. 19.
- Kent-Jones, Douglas W. (See Chitty, C. W., and Kent-Jones.)
- Kent-Jones, Douglas W., and C. W. Chitty, assignors to Woodlands Limited, Dover, England. Treatment of cereal substances. 1,710,503; Apr. 23.
- Kent-Owens Machine Company, The. (See Happel, Albert, assignor.)
- Kent, Philip J., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Identification-plate frame. 1,739,971; Dec. 17.
- Kent, Willys P., New York, N. Y. Phonograph-record-translating device. 1,739,794; Dec. 17.
- Kenworthy, Byron R., et al. (See Kenworthy, Robert R., assignor.)
- Kenworthy, Robert R., Philadelphia, Pa. Making concrete block. 1,723,043; Aug. 6.
- Kenworthy, Robert R., assignor of one-fourth to J. F. Daly, one-fourth to W. Donahue, and one-fourth to B. R. Kenworthy, Philadelphia, Pa. Locking device. 1,699,973; Jan. 22.
- Kenyon, Charles C., Somerville, N. J. Tenting and drying machine. 1,719,612; July 2.
- Kenyon, Clayton L., assignor to Kenyon Manufacturing Company, Minneapolis, Minn. Pump jack. 1,732,475; Oct. 22.
- Kenyon, Howard, Houston, Tex. Machine for conditioning gravel. 1,725,868; Aug. 27.
- Kenyon, John, Detroit, Mich. Automatic-turntable stop. 1,735,251; Nov. 12.
- Kenyon Manufacturing Company. (See Kenyon, Clayton L., assignor.)
- Kenyon, Oades J., Santa Barbara, Calif., assignor, by mesne assignments, to Instant Ice Corporation. Oil separator. 1,710,990; Apr. 30.
- Kenyon, William C., assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Manufacturing covered joint hinges. 1,699,242; Jan. 15.
- Keogh, Thomas B., New York, N. Y. Manually-controlled vehicles. 1,707,618; Apr. 2.
- Keough, Robert E., Montreal, Quebec, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail joint. 1,707,434; Apr. 2.
- Keough, Robert E., Montreal, Quebec, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail-joint shim. 1,707,435; Apr. 2.
- Keough, Robert E., Montreal, Quebec, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Wear-compensating means for rail joints. 1,707,436; Apr. 2.
- Keough, Robert E., Montreal, Quebec, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail-joint shim. 1,707,437; Apr. 2.
- Keough, Robert E., Montreal, Quebec, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail joint. 1,707,438; Apr. 2.
- Kepler, Irwin F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber-lined tube and making same. 1,708,141; Apr. 9.
- Kepley, John M., et al. (See Kellogg, Alfred E., assignor.)
- Kepler, Robert C. (See Johnson, W. V., and Kepner.)
- Keppinger, Urban A., Portland, Oreg. Foldable child's combined ladder and auxiliary toilet seat. 1,737,163; Nov. 26.
- Kepple, John C., Indianapolis, Ind. Supporting structure for concrete construction. 1,707,226; Apr. 2.
- Keppler Bros. (See Keppler, Jesse, assignor.)
- Keppler, Jesse, assignor to Keppler Bros., New York, N. Y. Receiptable. 1,711,949; May 7.
- Keppy, Jesse L. D., Berkeley, Calif. Heater. Des. 78,629; May 28.
- Keppy, Jesse L. D., Berkeley, Calif. Heating device. 1,737,928; Dec. 3.
- Ker, John O., Ottawa, Ontario, Canada, assignor to H. G. Ketchum, Luzerne, N. Y. Poultry leg band. 1,725,926; Aug. 27.
- Kerbs, Leonard E., Otis, Kans. Radiator protector. 1,715,762; June 4.
- Kerch, John, assignor to The XXth Century Heating and Ventilating Company, Akron, Ohio. Furnace. 1,707,731; Apr. 2.
- Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric water heater. 1,699,738; Jan. 22.
- Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric air heater. 1,699,739; Jan. 22.
- Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric air heater. 1,704,479; Mar. 5.
- Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electric air heater. 1,705,769; Mar. 19.
- Kercher, Arthur J., Berkeley, and W. W. Hicks, San Francisco, Calif. Electrical heating element. 1,729,673; Oct. 1.
- Kerensky, Joseph, Washington, D. C. Convertible furniture. 1,706,669; Mar. 26.
- Kerestes, George A., Sellersville, assignor to B. G. Case, Pittsburgh, Pa. Motion-picture machine. 1,732,785; Oct. 22.
- Kergel, Hermann, Dresden, assignor to the firm of Sachsenwerk, Licht- und Kraft-Aktiengesellschaft, Niedersedlitz, near Dresden, Germany. Uni or multi polar oil break switch. 1,732,895; Oct. 22.
- Kerite Insulated Wire and Cable Company, The. (See Dana, Alan S., assignor.)
- Kerlaouezo, Raymond C., L. W. Evans, and S. B. Merry, assignors to The Republic Steel Package Company, Richmond, Calif. Heating system. 1,708,580; Apr. 9.
- Kerle, Florence M., and W., New York, N. Y. Baby-carriage body. Des. 78,630; May 28.
- Kerle, William. (See Kerle, Florence M. and W.)
- Kerlow Steel Flooring Co. (See Bunker, Herbert H., assignor.)
- Kermode, John J., Liverpool, England. Apparatus for maintaining the temperature of oil within predetermined limits. 1,704,506; Mar. 5.
- Kern, Donald, Brooklyn, N. Y. Signal window. 1,721,223; July 16.
- Kern, Erwin, Wettingen, near Baden, assignor to Aktien-gesellschaft Brown Boveri & Cie., Baden, Switzerland. Apparatus for selectively cutting out a rectifier when flashing over occurs therein. 1,722,097; July 23.
- Kern, Eugene E. (See Echele, H. J., and Kern.)
- Kern, Eugene E., assignor to W. R. Alberts and H. J. Echele, St. Louis, Mo. Support. 1,716,857; June 11.
- Kern, Fred M., Detroit, Mich. assignor, by mesne assignments, to Cincinnati Grinder Incorporated, Cincinnati, Ohio. Grinding machine. 1,733,096; Oct. 22.
- Kern, Fred M., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,733,098; Oct. 22.
- Kern, Fred M., Detroit, Mich., assignor by mesne assignments to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,735,867; Nov. 19.
- Kern, Fred M., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,737,852; Dec. 3.
- Kern, Fred M., and E. R. Seward, Detroit, Mich., assignors, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 1,733,492; Oct. 29.
- Kern, Jean G., and C. J. Sala, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Color-printing paste and making same. 1,705,818; Mar. 19.
- Kern, Lutie, Lawrence, Kans. Auxiliary heating device. 1,723,178; Aug. 6.
- Kern, Lutie, Lawrence, Kans. Auxiliary heating device. 1,723,179; Aug. 6.
- Kern, William A. (See Schaefer, F., and Kern.)
- Kernan, Ella M., New York, N. Y. Chest or similar article. Des. 77,695; Feb. 12.
- Kernen, Herman P., Wilmette, Ill. Making cheese. 1,708,099; Apr. 9.
- Kernen, Herman P., Wilmette, Ill. Making cheese. 1,708,100; Apr. 9.
- Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Cast-off buckle. 1,705,978; Mar. 19.
- Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel buckle. 1,738,477; Dec. 3.
- Kernin, Alfred G., assignor to Mosinee Paper Mills Company, Mosinee, Wis. Device for blowing boilers. 1,737,591; Dec. 3.
- Kernohan, Robert B., and J. S. Lochhead, Pittsburgh, Pa. Open-hearth furnace. 1,741,024; Dec. 24.
- Kernohan, Robert B., J. S. Lochhead, and W. Trinks, Pittsburgh, Pa. Open-hearth-furnace structure and method of operation. 1,741,025; Dec. 24.
- Kerns, Arthur, Baltimore, Md. Cylinder piston packing ring. 1,720,128; July 9.
- Kernspecht, George H. (See Kernspecht, Otto C. and G. H.)
- Kernspecht, Otto C. and G. H., Cleveland, Ohio. Electric hair-curling device. 1,701,043; Feb. 5.
- Kerotest Manufacturing Company. (See Mueller, Richard W., assignor.)
- Kerper, George B. (See Beyer, Alfred H., assignor.)
- Kerr, Allen B., assignor of one-half to Kerr Products Company, Inc., Sacramento, Calif. Potato-slicing machine. 1,715,929; June 4.
- Kerr, Charles, Chicago, Ill. Power press. 1,702,085; Feb. 12.
- Kerr, Fay, Averyville, Ill., and M. Zimmermann, Lockport, N. Y. Preparing pulp in paper making. 1,709,133; Apr. 16.
- Kerr, Harry E., assignor to The Cleveland Gas Burner & Appliance Company, Cleveland, Ohio. Gas burner. 1,723,180; Aug. 6.
- Kerr, Howard J., El Mora, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler gauge glass. 1,703,426; Feb. 26.
- Kerr, Howard J., El Mora, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Protection for soot-blowing elements. 1,732,306; Oct. 22.
- Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler furnace. 1,733,156; Oct. 29.
- Kerr, Howard J., Westfield, N. J., and J. E. Trainer, Barberton, Ohio, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Economizer. 1,715,037; May 28.
- Kerr, James H. S. (See Moriarty, John J., assignor.)
- Kerr Products Company. (See Kerr, Allen B., assignor.)



- Kerr, Roy H., assignor to Kolliner-Newman Manufacturing Company, Stillwater, Minn. Garment. 1,722,753; July 30.
- Kerr, William, Hong Kong, China. Steam separator. 1,726,840; Sept. 3.
- Kerr, William E., Des Moines, Iowa. Laundry device. 1,710,736; Apr. 30.
- Kerr, William J., Warren, Ohio. Sign. Des. 78,577; May 21.
- Kerruish, Edward P., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Indenting apparatus. 1,707,400; Apr. 2.
- Kerruish, Edward P., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Apparatus for casting bearings. 1,726,902; Sept. 3.
- Kershaw, Arthur, assignor to Philadelphia Metal Drying Form Company, Philadelphia, Pa. Hosiery-drying form. 1,698,368; Jan. 8.
- Kerstein, Ernest A., Brooklyn, assignor to American Meter Company, Incorporated, New York, N. Y. Gas-meter-indicator mechanism. 1,700,845; Feb. 5.
- Kersten, Ferdinand P., Eden, assignor of one-half to Ford Bros., Buffalo, N. Y. Transmission gearing. 1,724,714; Aug. 13.
- Kersten, Jacob, Allegan, Mich. Radio loud speaker. 1,704,976; Mar. 12.
- Kersten, Jacob, Kalamazoo, Mich. Radio loud-speaker construction. 1,704,977; Mar. 12.
- Kersten, Jacob, Kalamazoo, Mich. Radio loud-speaker. 1,706,453; Mar. 26.
- Kersten, Julius, Bensheim-on-the-Bergstrasse, Germany. Decomposition of chlorides and sulphates of alkali-earth metals in molten state by steam. 1,721,485; July 16.
- Kersten, Samuel, Chicago, Ill. Escutcheon pipe coupling. 1,725,987; Aug. 27.
- Kersten, Samuel, Chicago, Ill. System of predetermined constant water supply and faucet nozzle therefor. 1,734,583; Nov. 5.
- Kersting, Albert H., Glendale, Calif. Spring sash balance. 1,733,666; Oct. 29.
- Kessel, Anton, San Jose, Calif. Direction indicator. 1,741,190; Dec. 31.
- Kessel, Johann, Oberstein-on-the-Nahe, assignor to Serfix Serviettenhalter-Fabrik Conradt & Co., Oberstein an der Nahe, Germany. Napkin holder. 1,732,684; Oct. 22.
- Kessel, Johannes B., Chicago, Ill. Mixing device for carburetors. 1,717,509; June 18.
- Kesselring, Fritz, Furth, Germany. Starting device for internal-combustion engines. 1,724,941; Aug. 20.
- Kesses, Charles, New York, N. Y. Aeroplane flying-torpedo carrier. 1,717,159; June 11.
- Kessler, Albert, Mittweida, Germany. Pot cleaner. 1,730,217; Oct. 1.
- Kessler, Alphonso D., Dunkirk, N. Y. Ingot-trimming press. 1,698,637; Jan. 8.
- Kessler Chemical Company, The. (See Kessler, J. M., and Helfrich, assignors.)
- Kessler, Clarence A., assignor to C. L. Willey Company, Chicago, Ill. Veneer machine. 1,705,189; Mar. 12.
- Kessler, Fred F., et al. (See Krödel, Frank J., assignor.)
- Kessler, Jacob, New York, N. Y. Converting ammonium chloride into ammonia and hydrochloric acid. 1,718,420; June 25.
- Kessler, John H., Nyack, N. Y. Brake for aeroplanes. 1,710,628; Apr. 23.
- Kessler, John J., St. Louis, Mo. Indurated porous object and making-same. 1,739,597; Dec. 17.
- Kessler, John L., assignor to Forbes Manufacturing Co. Inc., Owensboro, Ky. Joint cover for pews. 1,722,226; July 23.
- Kessler, John M., West Orange, and O. B. Helfrich, assignors to The Kessler Chemical Company, Orange, N. J. Ether-alcohol esters of polycarboxylic acids. 1,714,173; May 21.
- Kessler, John M., West Orange, and O. B. Helfrich, Orange, N. J. Ether-alcohol ester of fatty acids. 1,739,315; Dec. 10.
- Kessler, Louis, Chicago, Ill. Ventilating system for tunnels. 1,728,493; Sept. 17.
- Kessler, Louis, Chicago, Ill. Mine-ventilating system. 1,735,927; Nov. 19.
- Kessler, Louis, Chicago, Ill., assignor to R. W. Hill, trustee. Container. 1,723,735; Aug. 6.
- Kestenman Bros. Mfg. Co. (See Kestenman, Charles H., assignor.)
- Kestenman, Charles H., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Expansible band or bracelet. 1,698,134; Jan. 8.
- Kestenman, Charles H., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Expansible band, chain, or the like. 1,704,049; Mar. 5.
- Kestenman, Charles H., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Expansible band or bracelet. 1,739,722; Dec. 17.
- Kester Solder Company. (See Ripley, Perry C., assignor.)
- Ketchpel, Paul A. (See Lower, N. M., and Ketchpel.)
- Ketchum, Harry G. (See Ker, John O., assignor.)
- Ketchum, James T., Chicago, Ill. Circulator for hot-water systems. 1,720,333; July 9.
- Ketchum, John R., et al. (See Vroman, John C., assignor.)
- Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Air-cooled engine. 1,697,818; Jan. 1.
- Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Automatically-controlled transmission for motor vehicles. 1,710,991; Apr. 30.
- Kettering, Charles F., assignor to General Motors Research Corporation, Dayton, Ohio. Heat-exchange apparatus. 1,721,808; July 23.
- Kettering, Charles F., and G. A. Buvinger, assignors to Delco-Light Company, Dayton, Ohio. Water system. 1,698,265; Jan. 8.
- Kettering, Charles F., Dayton, Ohio, and C. R. Short, Detroit, Mich., assignors to General Motors Research Corporation, Dayton, Ohio. Frame construction for automobile chassis. 1,707,732; Apr. 2.
- Kettering, Charles F., and W. A. Chryst, assignors to Delco-Light Company, Dayton, Ohio. System of gas control. 1,718,238; June 25.
- Kettering, William T., assignor to Friedley-Voshardt Co., Chicago, Ill. Lantern. Des. 80,083; Dec. 10.
- Ketterlinus Lithographic Manufacturing Co. (See Schwartz, Eugene, assignor.)
- Kettle, George, Denver, Colo. Apparatus for separating gold from sand. 1,704,746; Mar. 12.
- Keuffel, Carl W., Weehawken, assignor to Keuffel & Esser Co., Hoboken, N. J. Eyepiece for optical instruments. 1,712,112; May 7.
- Keuffel & Esser Co. (See Keuffel, Carl W., assignor.)
- Keuffel & Esser Co. (See Keuffel, Willie L. B., assignor.)
- Keuffel, Willie L. B., Weehawken, assignor to Keuffel & Esser Co., Hoboken, N. J. Drafting instrument. 1,704,540; Mar. 5.
- Keulegan, Garbis H. (See Tuckerman, L. B., Eaton, and Keulegan.)
- Kewanee Boiler Corporation. (See Moore, Michael F., assignor.)
- Kewaskum Aluminum Co. (See Hron, Albert G., assignor.)
- Kewell, Frederick W., Oakland, Calif. Cover paper or similar article. Des. 79,468; Sept. 24.
- Kex Company. (See Wesseler, William J., assignor.)
- Key, Claude L., assignor to Key Weeder Company, Milton, Oreg. Flexible weeder frame. 1,732,724; Oct. 22.
- Key, James F., Sierra Madre, assignor of one-half to L. S. Lyon, Los Angeles, Calif. Transmission or brake band. 1,700,537; Jan. 29.
- Key, James F., Sierra Madre, assignor to First Trust & Savings Bank of Pasadena, trustee, Pasadena, Calif. Indicating conditions of liquids employed in internal-combustion engines. 1,730,734; Oct. 8.
- Key, John R. (See Mahoney, O. P., and Key.)
- Key, Robert L., Oakwood, Tex. Seat and desk combined. 1,715,843; June 4.
- Key-Tag Checking System Company, The. (See Todd, John H., assignor.)
- Key Weeder Company. (See Key, Claude L., assignor.)
- Keyes, Frederick G., Cambridge, Mass., assignor, by mesne assignments, to National Refrigerating Company. Method of and apparatus for producing refrigeration and chemical compounds useful therein. 1,698,847; Jan. 15.
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Fluid-storing material. 1,705,482; Mar. 19.
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Fluid-storing material. 1,705,483; Mar. 19.
- Keyes, Frederick G., Cambridge, assignor, by mesne assignments, to National Refrigerating Company, Boston, Mass. Fluid-storing material. 1,705,484; Mar. 19.
- Keyes, George H., assignor to M. L. Hall, Boston, Mass. Vehicle wheel. 1,709,435; Apr. 16.
- Keyes, Henry E., Mount Holly, N. J. Hammer. 1,705,123; Mar. 12.
- Keyes, John M., et al. (See Savage, Llewellyn T., assignor.)
- Keyes, Laura H., et al. (See Savage, Llewellyn T., assignor.)
- Keyes, William J., Saginaw West Side, Mich. Photograph-print washer. 1,716,446; June 11.
- Keys, John E. and O. P., Elizabethton, Tenn. Cheese cutter. 1,734,133; Nov. 5.
- Keys, Opie P. (See Keys, John E., and O. P.)
- Keys, Walter C., Detroit, Mich., assignor to The Mechanical Rubber Company, Cleveland, Ohio. Yielding connection. 1,725,523; Aug. 20.
- Keyser, Harry M. (See Combes, Abbott L., assignor.)
- Keyser, Johann J., Aarau, Switzerland. Spinning and twisting machine beam. 1,700,800; Feb. 5.
- Keyser, Leroy F., Akron, Ohio. Wire clothespin. 1,725,986; Aug. 27.
- Keystone Aircraft Corporation. (See Daland, Elliot, assignor.)
- Keystone Aircraft Corporation. (See Gott, Edgar N., assignor.)
- Keystone Aircraft Corporation. (See Huff, Thomas H., assignor.)
- Keystone Chemical & Mfg. Co. (See Ormont, Bernard, assignor.)
- Keystone Driller Company. (See Downie, Robert R., assignor.)
- Keystone Lantern Company. (See Davis, Nathan H., assignor.)
- Keystone Reamer & Tool Co. (See Seller, Michael I., assignor.)



- Keystone Roofing Manufacturing Company. (See Preston, Frederick W., assignor.)
- Keystone View Company. (See Singley, Benneville L., assignor.)
- Keystone Specialty Company. (See Pierce, William S., assignor.)
- Keystone Stamping Corporation. (See Wohlhieter, Joseph W., assignor.)
- Keystone Watch Case Co., The. (See Davis, Alex B., assignor.)
- Khaira, Randhir S., Navasota, Tex. Phonograph. 1,741,465; Dec. 31.
- Khalil, Seyed, Newark, N. J. Method, apparatus, and symbols for recording and indicating sound waves. 1,712,113; May 7.
- Khalil, Seyed, Newark, N. J. Umbrella. 1,723,044; Aug. 6.
- Khetab Corporation. (See Sartakoff, Jack D., assignor.)
- Khetab Corporation et al. (See Sartakoff, Jack D., assignor.)
- Khun, Albert M., Elizabeth, N. J. Flood-tide and back-water valve. 1,700,636; Jan. 29.
- Kiamie, Naif A., Brooklyn, assignor to Infants Underwear Corporation, New York, N. Y. Diaper. 1,716,065; June 4.
- Kibbey, Walter B., et al. (See Kellogg, Alfred E., assignor.)
- Kibele, Eugene, San Antonio, Tex. Pump valve. 1,707,017; Mar. 26.
- Kibelet, Otto B., Wilmington, Calif. Gas burner. 1,711,794; May 7.
- Kichline, Frank O., Lebanon, Pa., assignor to Bethlehem Steel Company. Reduction of complex ores. 1,717,160; June 11.
- Kielleski, Mike, Detroit, Mich. Vehicle brake mechanism. 1,704,480; Mar. 5.
- Kick Products Corporation. (See Wilson, Walter E., assignor.)
- Kick Products Corporation. (See Wilson, W. E., Gleyre, and Homan, assignors.)
- Kidd, Horace J. (See Schellentrager, E. W. and Kidd.)
- Kidd, Leo F., Stockton, Calif. Shock-absorbing steering wheel. 1,716,856; June 11.
- Kidder, Burgess M., et al. (See Perkins, Willis J., assignor.)
- Kidder, Elwin H., assignor to Link-Belt Company, Chicago, Ill. Unloading tower. 1,710,798; Apr. 30.
- Kidder, Walter M., South Harpswell, Me. Stop-motion-actuating mechanism. 1,734,492; Nov. 5.
- Kidder, Wellington P., assignor to Rochester Industries, Inc., Rochester, N. Y. Typewriting machine. 1,713,607; May 21.
- Kidder, William E., Kalamazoo, Mich. Folding chair. 1,707,018; Mar. 26.
- Kidder, William E., assignor to Kalamazoo Sled Company, Kalamazoo, Mich. Folding chair. 1,739,552; Dec. 17.
- Kidney, Robert J., Buffalo, N. Y. Bath cabinet. 1,730,373; Oct. 8.
- Kidwell & Company. (See Kidwell, Cleo H., assignor.)
- Kidwell, Cleo H., Dongan Hills, N. Y., assignor to Kidwell & Company, Inc. Box. Des. 80,178; Dec. 24.
- Kidwell, Cleo H., West New Brighton, N. Y., assignor to Kidwell & Company, Inc. Removing ink spots and the like. 1,732,606; Oct. 22.
- Kidwell-Graver Corporation. (See Smail, Elmer S., assignor.)
- Kidwell, Grover C., assignor to Scott-Kidwell Jacket Co., Madison, Ind. Stuffing machine. 1,739,034; Dec. 10.
- Kieckhefer Container Co. (See Kieckhefer, William H., assignor.)
- Kieckhefer Container Co. (See Walker, Emery L., assignor.)
- Kieckhefer, William H., assignor to Kieckhefer Container Co., Milwaukee, Wis. Container. 1,736,200; Nov. 19.
- Kiefer, Edward J., New York, N. Y. Glass-polishing machine. 1,740,247; Dec. 17.
- Kiefer, Henry B., Louisville, Ky. Adjusting means for garments. 1,738,905; Dec. 10.
- Kiefer, Joseph B., Jefferson, Ohio. Valve grinder. 1,727,292; Sept. 3.
- Kiefer, Karl, Cincinnati, Ohio. Valve mechanism. 1,725,280; Aug. 20.
- Kiefer, Kenneth H., et al. (See Volkman, Frederick C., assignor.)
- Kiehler, Anna M., executrix. (See Marshall, W., and Kiehler.)
- Kiehler, Frederick. (See Marshall, W., and Kiehler.)
- Kiehne, Arthur. (See Schönfeld, Carl, assignor.)
- Kiel, Clemens A., Louisville, Ky. Flexible ball-and-socket pipe joint. 1,714,563; May 28.
- Kiel Furniture Company, The. (See Gommessen, Arthur, assignor.)
- Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Stovepipe structure. 1,705,620; Mar. 19.
- Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Container. 1,707,401; Apr. 2.
- Kieley & Mueller, Inc. (See Dutcher, Charles H., assignor.)
- Kiely, James F., Syracuse, N. Y. Number-plate-printing machine. 1,735,252; Nov. 12.
- Kienninger, John F., North Cambridge, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Speed control for imbibition apparatus. 1,704,328; Mar. 5.
- Kienninger, John F., North Cambridge, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Water agitator. 1,707,733; Apr. 2.
- Kienzl, Raymund, Cleveland, Ohio. Chaser. 1,740,604; Dec. 24.
- Kienzl, Raymund, Cleveland, Ohio. Tool-operating appliance. 1,715,844; June 4.
- Kienzle, John H., Minneapolis, Minn. Trimming and plaster stop for door and window frames. 1,726,742; Sept. 3.
- Kienzle, Lester C., assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressing machine. 1,710,263; Apr. 23.
- Kier, George L., Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Seed drill. 1,700,738; Feb. 5.
- Kier, George L., Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Sled. 1,711,171; Apr. 30.
- Kier, George L., Philadelphia, and D. R. Ritchie, Lansdowne, Pa., assignors to S. L. Allen & Co., Inc. Back rests for sleds. 1,714,093; May 21.
- Kiernan, Charles. (See Coburn, W. H., and Kiernan.)
- Kiernan, George, Belfast, Northern Ireland. Telephone receiver. 1,714,877; May 21.
- Kierstead-Anderson Co. (See Kierstead, Ashton B., assignor.)
- Kierstead-Anderson Co. (See Poole, Jesse V., assignor.)
- Kierstead, Ashton B., Rockland, assignor to Kierstead-Anderson Co., Inc., Brockton, Mass. Boot or shoe. 1,727,831; Sept. 10.
- Kies, Mathias, Dubuque, Iowa. Educational game. 1,725,197; Aug. 20.
- Kiesel, William F., jr., Altoona, Pa. Compartment freight car. 1,710,737; Apr. 30.
- Kiesel, William F., jr., Altoona, Pa. Exhaust nozzle. 1,726,152; Aug. 27.
- Kieselbach, A. Laura, et al., executors. (See Kieselbach, Henry C.)
- Kieselbach, Henry A., et al., executors. (See Kieselbach, Henry C.)
- Kieselbach, Henry C., deceased, Brooklyn, N. Y.; A. L. and H. A. Kieselbach, executors. Mixing container. 1,707,968; Apr. 2.
- Kiesling, Fred G., Alton, Ill. Game. 1,703,009; Feb. 19.
- Kiesling, Le Roy H., Brooklyn, N. Y. Elevator guide means. 1,702,783; Feb. 19.
- Kiesling, Samuel F. (See Halvorsen, O., and Kiesling.)
- Kietz, Adolph, Cleveland Heights, Ohio, W. F. Greenwald, and L. Weisberg, New York, N. Y.; said Greenwald and said Weisberg assignors to said Kietz. Treating hair. 1,720,220; July 9.
- Kietzke, Alfred A., Bondurant, Iowa. Power take-off pulverizer. 1,718,564; June 25.
- Kiewicz, John, assignor to The Reece Buttonhole Machine Company, Boston, Mass. Buttonhole-sewing machine. 1,709,726; Apr. 16.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Thread trimmer for sewing machines. 1,710,454; Apr. 23.
- Kiewicz, John, assignor to The Reece Buttonhole Machine Company, Boston, Mass. Buttonhole-sewing machine. 1,726,153; Aug. 27.
- Kiewicz, John, assignor to The Reece Buttonhole Machine Company, Boston, Mass. Sewing machine. 1,726,154; Aug. 27.
- Kift, Robert, Philadelphia, Pa. Plant stand. 1,731,139; Oct. 8.
- Kiger, Luther J., assignor to National Auto Tag Seal Corporation, Nashville, Tenn. License-tag seal. 1,716,139; June 4.
- Kiger, Omar C., and R. Shelton, Yakima, Wash. Relief valve for pressure pumps. 1,735,117; Nov. 12.
- Kightlinger, Frank J. (See Hall, R. R., and Kightlinger.)
- Kihneman, Henry C., sr., Monroe, La. Pedestal support. 1,739,466; Dec. 10.
- Kiks, Harry W. (See Kravitz, M., and Kiks.)
- Kikuchi, Yukio, Montclair, N. J. Gear transmission. 1,735,578; Nov. 12.
- Kikuchi, Yukio, Montclair, N. J. Transmission. 1,735,685; Nov. 12.
- Kilberg, Frank, Detroit, Mich. Window cleaner. 1,720,481; July 9.
- Kilberg, Frank, Detroit, Mich. Weather strip. 1,727,990; Sept. 10.
- Kilberry, George D. (See Standley, A. H., and Kilberry.)
- Kilberry, George D., East Downingtown, assignor to Downingtown Manufacturing Company, Downingtown, Pa. Press for use in paper making. 1,723,181; Aug. 6.
- Kilbride, John J., Scotch Plains, N. J. Cleaning device for eyeglass lenses. 1,708,728; Apr. 9.
- Kilburn, Isaac J., assignor to The American Switch Point Protector and Railroad Equipment Company, Denver, Colo. Switch-point protector. 1,701,890; Feb. 12.
- Kilburn, John B., Ocean City, N. J. Car seat. 1,711,268; Apr. 30.
- Kilburn, John B., Ocean City, N. J. Car seat. 1,735,320; Nov. 12.
- Kilburn, John B., Ocean City, N. J. Car seat. 1,735,321; Nov. 12.
- Kilchling, Karl, Freiburg, Germany. Torsion balance. 1,729,536; Oct. 1.



- Kilcullen, Patrick J., Philadelphia, Pa. Speed changing device. 1,735,203; Nov. 12.
- Kiler, Benjamin F., Linden, Calif. Camp stove. 1,706,886; Mar. 26.
- Kiley, Edward J., assignor to The Ohio Brass Company, Mansfield, Ohio. Valve. 1,703,674; Feb. 26.
- Kiley, Edward J., assignor to The Ohio Brass Company, Mansfield, Ohio. Forming valve disk. 1,731,224; Oct. 8.
- Kilgour, Charles F., Minneapolis, Minn. Grain-shocking machine. 1,703,309; Feb. 26.
- Kilgore Manufacturing Company, The. (See Green, Howard B., assignor.)
- Kilgore Mfg. Company, The. (See Hartwell, Benjamin N., assignor.)
- Kilgour, Loren W., Cleveland, Ohio. Combined automobile radiator and headlight. Des. 77,415; Jan. 8.
- Kilgour, Loren W., Cleveland, Ohio. Automobile body. Des. 80,034; Dec. 3.
- Kilgour, Walter M. S., Lexington, Mass. Motor-vehicle safety device. 1,740,895; Dec. 24.
- Kilgour, Walter M. S., Lexington, Mass. Motor-vehicle safety device. 1,740,896; Dec. 24.
- Kille, Lindley A., Bonton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Intermittently-operated signaling device. 1,738,299; Dec. 3.
- Killefer Manufacturing Company, The. (See Hudson, Arthur W., assignor.)
- Killian, Clara D., Owensboro, Ky., assignor to H. C. S. Samuels, Allentown, Pa. Acetylene generator. 1,726,029; Aug. 27.
- Killgus, Frederick, Brooklyn, N. Y. Adjustable typesetting frame. 1,719,936; July 9.
- Killik, Henry M., London, England. Land roller. 1,699,437; Jan. 15.
- Killingsworth, John W., Atlanta, Ga. Spring-camming machine. 1,713,387; May 14.
- Killingsworth, Virgil S., Jennings, Okla. Pressure-fluid hammer. 1,740,818; Dec. 24.
- Killion, Harry I., Winterest, Iowa. Method and apparatus for forming concrete subsealers. 1,704,135; Mar. 5.
- Killman, Thomas A., Nashville, Tenn. Combined mixer and aerator. 1,730,219; Oct. 1.
- Kilmer, Melvin D., Cleveland, Ohio. Wire-cutting machine. 1,714,094; May 21.
- Killmnick, Samuel, Picher, Okla. Display apparatus. 1,706,386; Mar. 19.
- Kilpatrick, Howard M., New York, N. Y. Collar. 1,705,296; Mar. 12.
- Kilzer, James E., assignor, by mesne assignments, to Davis Boring Tool Company, St. Louis, Mo. Expansion reamer. 1,740,986; Dec. 24.
- Kim, Julius, Braddock, Pa. Display rack. 1,715,163; May 28.
- Kimball, A., Company. (See Wallin, G. A., and Buckley, assignors.)
- Kimball, Arthur L., jr., and E. H. Hull, Schenectady, N. Y., assignors to General Electric Company. Vibration indicator. 1,727,991; Sept. 10.
- Kimball, Charles E., Chattanooga, Tenn. Skein-dyeing machine. 1,723,624; Aug. 6.
- Kimball, Fred S., Big Flats, N. Y. Relining curves in railroads. 1,713,438; May 14.
- Kimball, Guy H. (See Holt, S. L., and Kimball.)
- Kimball, Harvey G., Coldwater, Mich. Parcel or luggage carrier. 1,718,962; July 2.
- Kimball, Irving, Brookline, assignor to Globe Technollian Corporation, Boston, Mass. Tone-developing unit. 1,705,770; Mar. 19.
- Kimball, Irving, Brooklyn, assignor to Globe Technollian Corporation, Boston, Mass. Diaphragm. 1,705,771; Mar. 19.
- Kimball, James L., Beverly, assignor to Ruggles Klingemann Manufacturing Company, Salem, Mass. Fluid-pressure regulator. 1,707,955; Apr. 2.
- Kimball, James L., assignor to Ruggles-Klingemann Mfg. Company, Salem, Mass. Thermostatic-control apparatus and method. 1,738,073; Dec. 3.
- Kimball, James L., Beverly, assignor to Ruggles-Klingemann Mfg. Company, Salem, Mass. Electric motor-driven intermittent-driving gear. 1,740,436; Dec. 17.
- Kimball-Krogh Pump Company. (See Schlegel, R. M., and Bowlzer, assignors.)
- Kimball, Perry F., Detroit, Mich. Air turbine. 1,702,120; Feb. 12.
- Kimball, Samuel J., Elgin, Ill., assignor, by mesne assignments, to Van Sicklen Corporation. Container. 1,713,662; May 21.
- Kimball, Samuel J., Elgin, Ill., assignor, by mesne assignments, to Van Sicklen Corporation. Ash receptacle. 1,740,514; Dec. 24.
- Kimbel, Wilhelm, Berlin, Germany. Ventilating arrangement for vehicles. 1,706,694; Mar. 26.
- Kimbell, Arthur W., assignor to Cinch Manufacturing Corporation, Chicago, Ill. Separable fastener. 1,732,203; Oct. 15.
- Kimber, Harry P., assignor to E. Holley, Detroit, Mich. Double coating for permanent molds. 1,701,159; Feb. 5.
- Kimber, Harry P., assignor to E. Holley, Detroit, Mich. Coating for molds. 1,722,098; July 23.
- Kimberly, Emerson, E. (See Robbins, W. H., and Kimberly.)
- Kimble Electric Company. (See Nies, John D., assignor.)
- Kimbrell, June L., Sasakwa, Okla. Fishing tool. 1,731,070; Oct. 8.
- Kimmel, Leonard J., assignor to Electro-Kold Corporation, Spokane, Wash. Compressor. 1,705,772; Mar. 19.
- Kimmel, Leslie D., Bluffton, Ohio. Receptacle cap. 1,711,232; Apr. 30.
- Kimmerle Bros. (See Kimmerle, Daniel S., assignor.)
- Kimmerle, Daniel S., assignor to Kimmerle Bros., San Francisco, Calif. Hoist. 1,719,297; July 2.
- Kimmich, Elmer G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Belt joint and making the same. 1,735,686; Nov. 12.
- Kimmich, John J., Ellwood City, Pa. Fish bait. 1,700,061; Jan. 22.
- Kin-Ad-Scope Co., The. (See Noville, Carl E., assignor.)
- Kinard, James A., Big Spring, assignor of one-half to V. A. Stovall, Austin, Tex. Leveling device. 1,734,215; Nov. 5.
- Kincaid, Walter L. (See de Ybarrodo, Vincent C., assignor.)
- Kincaid, Walter C., Champaign, Ill. Automatic turntable. 1,724,800; Aug. 13.
- Kincheloe, Herbert E., St. Louis, Mo. Combined map case and display rack. 1,705,190; Mar. 12.
- Kindel, Charles J., Grand Rapids, Mich. Bed-rail fastener. 1,733,460; Oct. 29.
- Kindel, Charles J. and H. W. Lundberg, assignors to Foote-Reynolds Company, Grand Rapids, Mich. Extension bed. 1,704,858; Mar. 12.
- Kindel Furniture Company. (See Spyker, D. J., and Kindel, assignors.)
- Kindel, Thomas G. (See Spyker, D. J., and Kindel.)
- Kindelberger, James H., Santa Monica, assignor, by mesne assignments, to Douglas Aircraft Company, Inc., Los Angeles, Calif. Amphibian airplane. 1,729,878; Oct. 1.
- Kinder, Cloyd L., Denver, Colo. Engine. 1,726,073; Aug. 27.
- Kindl, Carl H., Pittsburgh, Pa., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Engine starter. 1,709,079; Apr. 16.
- Kindl, Carl H., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition coil. 1,713,183; May 14.
- Kindl, Carl H., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,724,136; Aug. 13.
- Kindler, Eduard G. L., Friedenau, near Berlin, assignor to Bergische Stahl-Industrie, Oberkassel, near Dusseldorf, Germany. Brake. 1,711,602; May 7.
- Kindt, Charles R., and P. H. Enniss, Sarasota, Fla. Game device. 1,736,447; Nov. 19.
- Kindt, Ernest, et al. (See Erb, Lanious P., assignor.)
- King, Albert F. 3d. (See Taylor, R. S., and King.)
- King, Andrew. (See Koronski, André.)
- King, Augustus S., Chicago, Ill., assignor of fifteen per cent to D. H. Sweet. Kitchen furniture. 1,728,615; Sept. 17.
- King, Bert W., assignor to Barnes Scale Company, Detroit, Mich. Lever system for scales or the like. 1,713,286; May 14.
- King, Bertell W., New York, N. Y. Closure. 1,722,802; July 30.
- King, Bertell W., New York, N. Y. Paste ejector. 1,741,991; Dec. 31.
- King Boat Company. (See Harter, Noah S., assignor.)
- King, Burham W. (See Currier, B. P., and King.)
- King, C. G., & Co. (See Smith, Walter E., assignor.)
- King Candy Letter Company, The. (See King, Francis B., assignor.)
- King, Cleveland C., Lewisburg, Ala. Churn attachment for washing machines. 1,700,935; Feb. 5.
- King, Clifford G., Providence, R. I. Pin. 1,698,335; Jan. 8.
- King, Clifford G., Providence, R. I. Attaching means for articles. 1,737,375; Nov. 26.
- King, Don W., and F. T. Irgens, Jackson, assignors, by mesne assignments, to Outboard Motors Corporation, Detroit, Mich. Drip pan for outboard motors. 1,734,910; Nov. 5.
- King, Don W., and A. L. Lockwood, Jackson, assignors, by mesne assignments, to Outboard Motors Corporation, Detroit, Mich. Anticavitation plate for outboard motors. 1,734,911; Nov. 5.
- King, Elmer H., Portland, Me. Chemical substance. 1,720,278; July 9.
- King, Elmer H., Cape Elizabeth, Me. Chemical substance. 1,720,279; July 9.
- King, Floyd W., Clifton Forge, assignor to Covington Machine Company Inc., Covington, Va. Window platform. 1,711,354; Apr. 30.
- King, Francis B., assignor to The King Candy Letter Company, Baltimore, Md. Candle decoration. 1,714,674; May 28.
- King, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Self-locking pin fastener. 1,703,151; Feb. 26.
- King, George E., Richmond Hill, N. Y. Vibratile musical instrument. 1,727,238; Sept. 3.
- King, George T., Corpus Christi, Tex. Tractor steering wheel. 1,702,009; Feb. 12.
- King, George W. K. (See Cornner, A. F., and King.)
- King, Harry C. (See King, Russell G., and H. C.)
- King and Hamilton Company. (See Gilman, Albert E., assignor.)



- King, Herbert F., Newtonville, assignor to Samson Cordage Works, Boston, Mass. Twine package. 1,707,619; Apr. 2.
- King, Horace W., Berkeley, Calif., assignor to King-Seeley Corporation, Ann Arbor, Mich. Liquid-depth-indicating device. 1,696,915; Jan. 1.
- King, Horace W., assignor to King-Seeley Corporation, Ann Arbor, Mich. Depth-indicating device. 1,714,788; May 28.
- King, Horace W., assignor to King-Seeley Corporation, Ann Arbor, Mich. Gauge. 1,726,495; Aug. 27.
- King, Horace W., assignor to King-Seeley Corporation, Ann Arbor, Mich. Depth-indicating device. 1,742,084; Dec. 31.
- King, Howard P., Bloomfield, N. J. Mirror. Des. 78,631; May 28.
- King, James E. (See Tate, H. E., King, and Barber.)
- King, James T. (See Noble, C. G. and King.)
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. Re17,434; Sept. 17.
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,719,117; July 2.
- King, Jesse G., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,728,183; Sept. 17.
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,731,009; Oct. 8.
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,732,090; Oct. 15.
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Cooling unit for mechanical refrigerators. 1,732,091; Oct. 15.
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,732,092; Oct. 15.
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,732,093; Oct. 15.
- King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,732,094; Oct. 15.
- King, Jesse G., assignor, by mesne assignments, to General Motors Research Corporation, Dayton, Ohio. Pump for refrigeration systems. 1,736,973; Nov. 26.
- King, Jesse G., assignor, by mesne assignments, to General Motors Research Corporation, Dayton, Ohio. Pump for refrigeration systems. 1,736,974; Nov. 26.
- King, Jesse G., Dayton, Ohio, assignor by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,739,639; Dec. 17.
- King, Jesse G., Dayton, Ohio, assignor by mesne assignments, to General Motors Research Corporation. Refrigerating apparatus. 1,739,723; Dec. 17.
- King, John J., Toledo, Ohio. Mortar mixer. 1,727,992; Sept. 10.
- King, John L., Salem, Ohio. Lens-fitting attachment. 1,717,224; June 11.
- King, John P., assignor to Walling & Walling, Providence, R. I. Thread-dressing machine. 1,729,272; Sept. 24.
- King, John R., Ruthven, Iowa. Windshield-control device. 1,733,377; Oct. 29.
- King, Joseph M. S. (See Pack, W. D., and King.)
- King, Joseph E., jr., Troy, N. Y. Adjustable window screen. 1,697,768; Jan. 1.
- King, Joseph M., Detroit, Mich. Carburetor. 1,706,492; Mar. 26.
- King, Joseph M. S., assignor to The Utah Radio Products Company, Salt Lake City, Utah. Loud-speaker unit. 1,719,227; July 2.
- King, Maine D., East Orange, assignor to Charms Company, Newark, N. J. Candy doll or similar article. Des. 78,979; July 16.
- King, Nathaniel, assignor to Seneca Falls Machine Co., Fitchburg, Mass. Squaring attachment for lathes. 1,724,285; Aug. 13.
- King, Ora C., et al. (See Cook, William A., assignor.)
- King, Robert O., London, England. Carbureting air. 1,724,942; Aug. 20.
- King, Robert P., Ellsworth, assignor to Freefuel Heater Company, Portland, Me. Fuel economizer. 1,700,411; Jan. 29.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Bracelet catch. 1,722,971; July 30.
- King, Russell G. and H. C., Washington, D. C. Ladder scaffold. 1,733,967; Oct. 29.
- King-Seeley Corporation. (See King, Horace W., assignor.)
- King, Thomas E., Springfield, Mass. Arch support. 1,707,525; Apr. 2.
- King, Thomas F., New Orleans, La. Collar button. 1,741,027; Dec. 24.
- King Time Bomb Company et al. (See Mace, Charles E., assignor.)
- King Valve Attachment Corporation. (See Meyer, Peter, assignor.)
- King, Walter G., New York, N. Y., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,727,433; Sept. 10.
- King, William H. (See Humes, J. E., and King.)
- King, William H., Clinton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for weft-replenishing looms. 1,715,930; June 4.
- King, William H., Clinton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin support for weft-replenishing looms. 1,724,286; Aug. 13.
- King, William H., Clinton, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Device to prevent repeated indication of weft exhaustion. 1,741,316; Dec. 31.
- King, William J., assignor to The E. T. Burrowes Company, Portland, Me. Folding table. 1,697,567; Jan. 1.
- King, William J., East Orange, N. J., assignor to Bilmariac Corporation, New York, N. Y. Seat-indicating system. 1,711,534; May 7.
- King, William P., and E. T. Corbin, Hamilton, Ohio. Ceiling construction. 1,715,296; May 28.
- King, William R., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal for resistance conductors. 1,731,380; Oct. 15.
- King, William R., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Terminal for heating units. 1,735,168; Nov. 12.
- Kingdon, Kenneth H., Schenectady, N. Y., assignor to General Electric Company. Electrical discharge device. 1,725,281; Aug. 20.
- Kingman, Russell B., Orange, N. J., assignor to Metal Textile Corporation. Metallic abrasive fabric. 1,727,346; Sept. 10.
- Kingman, William B., Brookline, assignor to Hurley Shoe Stores Company, Rockland, Mass. Shoe. 1,709,672; Apr. 16.
- Kings, John G., Rugby, England. Duplicating machine. 1,726,841; Sept. 3.
- Kingsbury, Albert, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Bearing. 1,739,362; Dec. 10.
- Kingsbury & Davis Machine Company. (See Gerritson, J., and George, assignors.)
- Kingsbury, Edward J. (See Kingsbury, Harry T. and E. J.)
- Kingsbury, Harry T. and E. J., Keene, N. H. Automatic hopper feeding device. 1,718,565; June 25.
- Kingsbury Machine Works, Inc. (See Howarth, Harry A. S., assignor.)
- Kingsbury Machine Works, Inc. (See Kingsbury, Albert, assignor.)
- Kingsland, George D., and P. S. Russel, St. Louis, Mo. Apparatus for controlling temperature. 1,703,534; Feb. 26.
- Kingsley-Miller Company, The. (See Behnke, Cord H., assignor.)
- Kingsley-Miller Company, The. (See Blanc, David W., assignor.)
- Kingsley-Miller Company, The. (See Miner, G. H., and McClelland, assignors.)
- Kingsley-Miller Company, The. (See Pardee, H. S., and Dewire, assignors.)
- Kingsley-Miller Company, The. (See Schlaich, Herman, assignor.)
- Kingsley-Miller Company, The. (See Wolkow, Isaac L., assignor.)
- Kingsmill, Henry L., Redfern, Sydney Australia. Shaft and like coupling. 1,733,021; Oct. 22.
- Kingston, A. Roy, et al. (See Kingston, Thomas H., assignor.)
- Kingston, Frank G., et al. (See Kingston, Thomas H., assignor.)
- Kingston, George, Fort Myers, Fla., assignor to Kingston Products Corp., Kokomo, Ind. Gas regenerator. 1,693,099; Jan. 8.
- Kingston Products Corp. (See Kingston, George, assignor.)
- Kingston, Thomas H., assignor to Builder's Patent Scaffolding Company, West Somerville, Mass. Scaffolding pole splice. 1,705,979; Mar. 19.
- Kingston, Thomas H., West Somerville, assignor, by mesne assignments, to F. G. Kingston, Somerville, A. R. Kingston, Arlington, and C. C. Pimm and M. G. Kitchen, Somerville, Mass., a Partnership doing business as Builders' Patent Scaffolding Company. Ledger-board clamp. 1,739,904; Dec. 17.
- Kingstone, George A., et al. (See Smith, James R., assignor.)
- Kinhead, Geoffrey R., New York, N. Y. Apparatus for making hollow articles by extrusion. 1,722,634; July 30.
- Kinley, Basil E. (See Bianco, C. A., and Kinley.)
- Kinnard, Isaac F., Lynn, Mass., assignor to General Electric Company. Temperature compensation for magnets. 1,706,171; Mar. 19.
- Kinnard, Isaac F., Lynn, Mass., assignor to General Electric Company. Temperature-responsive magnetic material. 1,706,172; Mar. 19.
- Kinnard, Isaac F., Lynnfield, and W. H. Pratt, Lynn, Mass., assignors to General Electric Company. Electric meter. 1,719,890; July 9.
- Kinnard, Luther J., Chicago, Ill., assignor to Kaestner and Hecht Elevator Company. Automatic gate closer. 1,715,710; June 4.
- Kinnard, Robert M., Sebring, assignor to The Gibbs Manufacturing Company, Canton, Ohio. Toilet seat. 1,720,129; July 9.
- Kinnear, Manufacturing Company, The. (See Brunst, W. M., and Gregor, assignors.)
- Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)



- Kinnear Manufacturing Company, The. (See McCloud, E. H., and Rush, assignors.)
- Kinnear Manufacturing Company, The. (See Rush, Albert, assignor.)
- Kinne, Lloyd B. (See Kinnee, William F. and L. B.)
- Kinne, William F. and L. B., Milwaukee, Wis. Radiators. 1,712,218; May 7.
- Kinney, B. H. (See Kinney, James jr., assignor.)
- Kinney, George E., et al. (See Eberly, Sylvester, assignor.)
- Kinney, Gustav A., Portland, Oreg. Lawn trimmer. 1,699,071; Jan. 15.
- Kinney, J. Stanley, Wilkesburg, Pa., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Separable junction block. 1,718,362; June 25.
- Kinney, James, jr., Bellaire, Ohio, assignor of one-half to B. H. Kinney, Albuquerque, N. Mex. Well developer. 1,699,072; Jan. 15.
- Kinney, James A., Lebanon, assignor to Bethlehem Steel Company, Bethlehem, Pa. Bolt-head trimmer. 1,704,541; Mar. 5.
- Kinney, James A., Lebanon, Pa., assignor to Bethlehem Steel Company. Rail-joint-plate press. 1,711,795; May 7.
- Kinney, James A., Lebanon, assignor to Bethlehem Steel Company, Bethlehem, Pa. Machine for assembling bolts and nuts. 1,715,606; June 4.
- Kinney, James A., Lebanon, assignor to Bethlehem Steel Company, Bethlehem, Pa. Bolt pointing and threading machine. 1,718,239; June 25.
- Kinney, James A., Lebanon, assignor to Bethlehem Steel Company, Bethlehem, Pa. Bolt-blank-feeding mechanism. 1,718,240; June 25.
- Kinney, Justus R., Jamaica Plain, Mass. Razor-blade holder. 1,711,569; May 7.
- Kinney Manufacturing Co. (See Neal, Ernest B., assignor.)
- Kinney, Martin L. (See Thomas, I., and Kinney.)
- Kinney, Norton W., assignor to Slipper City Wool Heel Company, Haverhill, Mass. Wood-heel-turning machine. 1,707,985; Apr. 9.
- Kinney Rome Company. (See Hanauer, Darwin, assignor.)
- Kinninger, Arthur M. (See Kinninger, Carl A., assignor.)
- Kinninger, Carl A., assignor of one-half to A. M. Kinninger, Dayton, Ohio. Anchor insert. 1,726,496; Aug. 27.
- Kinsel, Arthur V., assignor of one-half to C. Watts, Los Angeles, Calif. Piston and piston ring. 1,739,841; Dec. 17.
- Kinsella, Edward, and H. E. B. Young, Spondon, near Derby, England, assignors to Celanese Corporation of America. Spinning apparatus for artificial yarns or threads. 1,720,419; July 9.
- Kinser, James B., Tulsa, Okla. Winch. 1,710,774; Apr. 30.
- Kinsey, Edmond E., assignor of one-half to J. Findlater, San Gangelo, Tex. Gate and operating means therefor. 1,697,069; Jan. 1.
- Kinsey, Owen D., Wauwatosa, Wis. Grinder. 1,727,718; Sept. 10.
- Kinsey, William E. (See Selpt, Carl M., assignor.)
- Kinsler, Joseph. (See Schneider, P., and Kinsler.)
- Kinsley, Carl. (See Sharp, C. H., Kinsley, and Doyle.)
- Kinslow, Elijah M., assignor, by mesne assignments, to Vitimin Milling Corporation, Los Angeles, Calif. Making flour. 1,728,184; Sept. 17.
- Kinter, Charles W., Follansbee, W. Va. Pickling apparatus. 1,722,001; July 23.
- Kintner, Samuel M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Triode tube. 1,700,896; Feb. 5.
- Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 80,210; Dec. 24.
- Kintz, Mary E., Los Angeles, Calif. Lingerie clasp. 1,707,402; Apr. 2.
- Kintzele, Julius H. (See Tracy, M. J., and Kintzele.)
- Kintzele, Julius H., St. Louis, Mo. Luggage carrier. 1,710,093; Apr. 23.
- Kintzing, James B., Hanover, Pa. Positive shuttle motion. 1,711,304; Apr. 30.
- Kintzing, James B., Hanover, Pa. Shuttle-bar mechanism. 1,726,074; Aug. 27.
- Kintzing, Reese T., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. 1,700,588; Jan. 29.
- Kintzing, Reese T., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator. 1,709,673; Apr. 16.
- Kinzel, Augustus B., New York, N. Y., assignor to Electro Metallurgical Company. Surface-hardened material and producing the same. 1,736,919; Nov. 26.
- Kinzel, Augustus B., Bayside, N. Y., assignor to Electro Metallurgical Company. Case hardening. 1,736,920; Nov. 26.
- Kinzel, Augustus B., Bayside, N. Y., assignor to Electro Metallurgical Company. Case nitrication of steel. 1,736,921; Nov. 26.
- Kinzer, Edward W. (See Atwell, W. J., and Kinzer.)
- Kinzie, Charles J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Colored opacifying pigments and making same. 1,719,432; July 2.
- Kinzing, Adolf, Pforzheim, Germany. Pencil holder for leads of different kind, thickness, or color. 1,737,798; Dec. 3.
- Kipnis, Abraham, New York, N. Y. Coupling means for electrical conduits and the like. 1,717,389; June 18.
- Kipnis, Asher, assignor to Republic Knitting Mills, Brooklyn, N. Y. Knitting machine. 1,742,036; Dec. 31.
- Kipnis, Joseph. (See Katzman, J. and Kipnis.)
- Kipp, H. M., Co. Limited, The. (See Lowry, C. A. L., and Watling, assignors.)
- Kipp, John F. W., Quincy, Ill. Burial vault. 1,700,801; Feb. 5.
- Kipp, John M., Ridgewood, N. J., assignor to Richard Dimes Co., South Boston, Mass. Spoon or analogous article. Des. 78,521; May 14.
- Kipp, Karl, East Aurora, N. Y. Desk lamp. Des. 78,211; Apr. 9.
- Kipp, Orin L., St. Paul, Minn. Concrete-pavement-finishing machine. Re17,176; Jan. 1.
- Kipp, Roy H., Chicago, Ill., assignor to International Harvester Company. Cultivator. 1,718,789; June 25.
- Kipp, Roy H., Chicago, Ill., assignor to International Harvester Company. Cultivator. 1,718,790; June 25.
- Kipp, Roy H., Chicago, Ill., assignor to International Harvester Company. Disk cultivator. 1,721,697; July 23.
- Kipp, Roy H., Chicago, Ill., assignor to International Harvester Company. Detachable cultivator shovel. 1,740,739; Dec. 24.
- Kippe, Otto. (See Haedrich, P., and Kippe.)
- Kipper, Herman B., Muskegon, Mich. Speeding chemical reactions. 1,697,390; Jan. 1.
- Kipper, Herman B., Muskegon, Mich. Alkali-metal-cyanide production. 1,697,529; Jan. 1.
- Kipper, Herman B., Muskegon, Mich. Alkali-metal cyanide process and apparatus. 1,699,362; Jan. 15.
- Kipper, Herman B., Muskegon, Mich. Heating and agitating apparatus. 1,741,573; Dec. 31.
- Kipping, Thilo. (See Pohlmann, Gustav, assignor.)
- Kipps, Isaac F., Walla Walla, Wash. Constant-cutting self-dumping weeder. 1,731,579; Oct. 15.
- Kiral, Luke, Brooklyn, N. Y. Moving-picture-projecting machine. 1,702,213; Feb. 12.
- Kirby, Charles H., Detroit, assignor to Marvel Carburetor Company, Flint, Mich. Cooperating heat and fuel regulation for intake manifolds. 1,727,605; Sept. 10.
- Kirby, Francis L., Magdalena, N. Mex. Tire-carrier fastener. 1,712,440; May 7.
- Kirby, James B. (See Dielenberger, Joseph A., assignor.)
- Kirby, James B., West Richfield, Ohio. Suction cleaner. 1,698,725; Jan. 15.
- Kirby, James B., West Richfield, Ohio. Lubricating device. 1,719,983; July 9.
- Kirby, James B., West Richfield, Ohio. Clothes-washing machine. 1,741,191; Dec. 31.
- Kirby, James B., West Richfield, Ohio. Clothes-washing machine. 1,741,317; Dec. 31.
- Kirby, Joseph. (See Madden, H. D., and Kirby.)
- Kirby, Joseph A., Wyndham, Southland, New Zealand. Channel-forming apparatus for telephone and the like cables. 1,737,314; Nov. 26.
- Kirby Manufacturing Company, The. (See Otterbein, John A., assignor.)
- Kirby, Roy, Wenatchee, Wash. Spoke tightener. 1,732,685; Oct. 22.
- Kirby, Theodore, New York, N. Y. Compact container. 1,698,266; Jan. 8.
- Kirby, Warren J., Inspiration, Ariz. Die apparatus. 1,712,888; May 14.
- Kirby, William H., Beverly, Mass. Automobile signaling switch. 1,717,225; June 11.
- Kirby, William H., Beverly, Mass. Road finder. 1,725,644; Aug. 20.
- Kirchelsen, Theodor, Dessau in Anhalt, and J. Guertler, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Producing fast dyes on the fiber. 1,736,083; Nov. 19.
- Kircher, Ralph N. (See Wentorf, R. H., and Kircher.)
- Kircher, Ralph N., West Bend, Wis., assignor to West Bend Aluminum Company. Detachable cover for cooking vessels. Re17,398; Aug. 6.
- Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Inset pan for cookers. 1,698,914; Jan. 15.
- Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Supporting kettle balls. 1,698,915; Jan. 15.
- Kircher, Ralph N., West Bend, Wis., assignor to West Bend Aluminum Company. Valve for cookers. 1,703,196; Feb. 26.
- Kirchhofer, August, Nashville, Tenn. Automatic lubricator. 1,733,157; Oct. 29.
- Kirchhoff, Richard, Berlin-Lichterfelde, and M. Cantor, Berlin-Zehlendorf, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Disazo dyes. 1,740,819; Dec. 24.
- Kirchhoff, William G., assignor to The J. H. Day Company, Cincinnati, Ohio. Dough molder. 1,740,024; Dec. 17.
- Kirchner, George P., Denver, Colo. Hinge for convertible automobile seats. 1,720,280; July 9.
- Kirchner, Henry W., St. Louis, Mo. Transportation system. 1,716,588; June 11.
- Kirgan, John F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,713,534; May 21.



- Kirgan, John F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,713,967; May 21.
- Kirgan, John F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,718,466; June 25.
- Kirgan, John F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,719,183; July 2.
- Kirgan, John F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Surface condenser. 1,724,138; Aug. 13.
- Kirin, Mark, Detroit, Mich. Vehicle radiator cap. 1,732,020; Oct. 15.
- Kirk, Archibald, and S. L. Brierly, assignors to K. & B. Company, Beaver Falls, Pa. Wall-paper-display panel. 1,715,164; May 28.
- Kirk & Blum Manufacturing Company, The. (See Kirk, Sylvester D., assignor.)
- Kirk, Daniel, Glencove, N. Y. Radiohorn. 1,714,510; May 28.
- Kirk, Dean H., et al. (See Riddle, Zelig, assignor.)
- Kirk, Edward B., Boston, assignor to American Optical Company, Southbridge, Mass. Apparatus for testing eyes. 1,735,005; Nov. 12.
- Kirk, Fred, assignor of one-half to J. C. Matesich and one-half to J. B. Kirk, Zanesville, Ohio. Piston-ring assembly. 1,721,125; July 16.
- Kirk, Fred, and J. C. Matesich, assignors of one-half to said Matesich and one-half to J. B. Kirk, Zanesville, Ohio. Shock absorber. 1,703,397; Feb. 26.
- Kirk, Henry C., assignor to Samuel Kirk and Son, Incorporated, Baltimore, Md. Paper cutter. Des. 77,811; Feb. 26.
- Kirk, Henry C., assignor to Samuel Kirk and Son Incorporated, Baltimore, Md. Candlestick. Des. 80,236; Dec. 31.
- Kirk, Jessie B., et al. (See Kirk, Fred, assignor.)
- Kirk, Jessie B., et al. (See Kirk, F., and Matesich, assignors.)
- Kirk, Raphael S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tube-deflating machine. 1,706,615; Mar. 26.
- Kirk, Raphael S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Squeegee guider. 1,721,304; July 16.
- Kirk, Roy E., Columbus, Ohio. Lip-marking guide. 1,704,290; Mar. 5.
- Kirk, Samuel, and Son, Incorporated. (See Kirk, Henry C., assignor.)
- Kirk, Sylvester W., assignor to The Kirk & Blum Manufacturing Company, Cincinnati, Ohio. Heat-insulating structural element. 1,697,189; Jan. 1.
- Kirk, Volney E., Los Angeles, Calif. Hair-holding device. 1,731,978; Oct. 15.
- Kirk, William J., Wellsburg, W. Va., and R. H. Brownlee and W. H. Coburn, Pittsburgh, Pa., assignors to The Electro Thermal Company, Steubenville, Ohio. Dilator. 1,729,044; Sept. 24.
- Kirkaldy, Alexander, assignor of one-fourth to R. S. Fletcher, New York; N. Y. Electrolytic protective means for condensers. 1,699,974; Jan. 22.
- Kirkbride, Edmund, Camden, N. J., assignor of one-half to S. C. Loveland, Hammonont, N. J. Letter attachment for printing presses. 1,718,363; June 25.
- Kirkbride, William, Detroit, Mich. Hydraulic steering mechanism. 1,723,789; Aug. 6.
- Kirke, Wallace B., Bronxville, and H. R. Searing, New York, N. Y. Sheath connection in electric-cable systems. Re17,235; Mar. 12.
- Kirkeby, John, San Luis Obispo, Calif. Gear-shifting mechanism. 1,731,819; Oct. 15.
- Kirkeby, John, San Luis Obispo, Calif. Automatic water-heating system. 1,736,266; Nov. 19.
- Kirkegaard, Georg, Brooklyn, assignor to National Surety Company, New York, N. Y. Making indelible imprints on sheet material. 1,716,699; June 11.
- Kirkevoid, Emma P., Brookings County, S. Dak. Preserving jar. 1,739,905; Dec. 17.
- Kirkham, Hulett & Chandler Limited. (See Slater, Walter F., assignor.)
- Kirkham Products Company, et al. (See Booth, Harry T., assignor.)
- Kirkland, Archibald D., assignor to Jabez Burns & Sons, Inc., New York, N. Y. Cocoa roaster. 1,732,896; Oct. 22.
- Kirkland, Needham L., Tampa, Fla., assignor of one-half to Z. M. Aldrich, Foughkeepsie, N. Y. Bottle and jar closure. 1,723,790; Aug. 6.
- Kirkman, Carl W., Harrisonburg, Va. Bottle-dispensing machine. 1,700,060; Jan. 22.
- Kirkpatrick, John, Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Goblet. Des. 77,779; Feb. 19.
- Kirkpatrick John, Clarksburg, assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Ash tray. Des. 79,432; Sept. 17.
- Kirkpatrick, John M., Woodmont, Pa. Razor-blade holder. 1,709,792; Apr. 16.
- Kirkpatrick, Marie, Grand Rapids, Mich., assignor, to Ficks Reed Company, Cincinnati, Ohio. Chair. Des. 79,031; July 23.
- Kirkpatrick, Marie, Grand Rapids, Mich., assignor to Ficks Reed Company, Cincinnati, Ohio. Chair. Des. 79,038; July 23.
- Kirkpatrick, Otto B., Chicago, Ill. Student's telegraph. 1,725,145; Aug. 20.
- Kirkpatrick, Robert S., Des Moines, Iowa. Caster. 1,724,353; Aug. 13.
- Kirkpatrick, Thomas E., Lake Worth, Fla. Steam cooker. 1,716,922; June 11.
- Kirkpatrick, Thomas H., Fargo, N. Dak. Ink pan. 1,725,146; Aug. 20.
- Kirkwood, Charles, Mansfield, Ohio. Antiskid tire chain. 1,722,526; July 30.
- Kirmse, Erich, Altrahlstedt, near Hamburg, and W. Schopper, Hamburg, Germany, assignors to American Metal Company, Ltd., New York, N. Y. Removing arsenic from ores, speiss, and other metallurgical products. 1,718,825; June 25.
- Kirn, Robert E., New York, N. Y. Piston ring. 1,741,849; Dec. 31.
- Kirner, Anton, Neustadt, Baden, Germany. Control apparatus for vehicles, machines, and the like. 1,703,491; Feb. 26.
- Kirsch Company. (See O'Donnell, Frank L., assignor.)
- Kirsch Company. (See Whincap, Frederic J., assignor.)
- Kirsch, George H. (See Keenan, C. J., Kennedy, and Kirsch.)
- Kirschbraun, Lester, Chicago, Ill. Motor fuel and making same. 1,701,620; Feb. 12.
- Kirschbraun, Lester, Chicago, Ill. Emulsified fuel. 1,701,621; Feb. 12.
- Kirschbraun, Lester, Chicago, Ill. Emulsion and making the same. 1,707,809; Apr. 2.
- Kirschbraun, Lester, Chicago, Ill. Waterproofing material and making the same. 1,708,927; Apr. 9.
- Kirschbraun, Lester, Chicago, Ill. Apparatus for making paper. 1,722,432; July 30.
- Kirschbraun, Lester, Chicago, Ill. Apparatus for making emulsions. 1,722,433; July 30.
- Kirschbraun, Lester, Chicago, Ill. Fuel and making the same. 1,725,198; Aug. 20.
- Kirschbraun, Lester, Chicago, Ill. Felted waterproof composition and making same. 1,725,645; Aug. 20.
- Kirschbraun, Lester, Chicago, Ill. Felted sheet and making same. 1,725,647; Aug. 20.
- Kirschbraun, Lester, Chicago, Ill. Bituminous emulsion. 1,733,493; Oct. 29.
- Kirschbraun, Lester, Chicago, Ill. Making bituminous emulsion. 1,733,494; Oct. 29.
- Kirschbraun, Lester, Chicago, Ill., assignor, by mesne assignments, to Anaconda Sales Company, New York, N. Y. Metallic-surfaced roofing and making same. 1,693,267; Jan. 8.
- Kirschbraun, Lester, Chicago, Ill., assignor to The Flintkote Company, Boston, Mass. Prepared shingle and making same. 1,701,926; Feb. 12.
- Kirschbraun, Lester, assignor of one-half to F. L. Belknap, Chicago, Ill. Making asphaltic products. 1,715,069; May 28.
- Kirschbraun, Lester, Chicago, Ill., and A. L. Clapp, Danvers; said Clapp assignor to The Flintkote Company, Boston, Mass. Paper and making the same. 1,708,926; Apr. 9.
- Kirschbraun, Lester, Chicago, Ill., and C. R. MacDonald, Middletown, Ohio; said MacDonald assignor to Flintkote Company, Boston, Mass. Apparatus for applying waterproofing material to sheets. 1,724,137; Aug. 13.
- Kirschbraun, Lester, H. J. Rossbacher, and G. Abson, Chicago, Ill., said Rossbacher and said Abson assignors to said Kirschbraun. Combustible-fuel emulsion and process. 1,701,622; Feb. 12.
- Kirschbraun, Lester, Evanston, Ill. Making waterproof composition. 1,722,434; July 30.
- Kirschbraun, Lester, Evanston, Ill. Making waterproof paper. 1,723,355; Aug. 6.
- Kirschbraun, Lester, Evanston, Ill. Floor covering and making same. 1,725,646; Aug. 20.
- Kirschbraun, Lester, Evanston, Ill., and C. B. Belknap, Highland Park, Mich. Motor fuel and making same. 1,707,019; Mar. 26.
- Kirschbraun, Lester, Leonia, N. J. Making felted fibrous composition. 1,722,434; July 30.
- Kirschbraun, Lester, Leonia, N. J. Emulsion product. 1,725,648; Aug. 20.
- Kirschbraun, Lester, Leonia, N. J. Production of dispersions. 1,733,495; Oct. 29.
- Kirschbraun, Lester, Leonia, N. J. Production of aqueous dispersions. 1,733,496; Oct. 29.
- Kirschbraun, Lester, Leonia, N. J. Aqueous dispersions and making same. 1,733,497; Oct. 29.
- Kirschbraun, Lester, Leonia, N. J. Aqueous dispersions and making same. 1,733,498; Oct. 29.
- Kirschbraun, Lester, Leonia, N. J. Production of aqueous dispersions. 1,734,437; Nov. 5.
- Kirschbraun, Lester, Leonia, N. J. Waterproof sheet and making same. 1,738,509; Dec. 3.
- Kirschbraun, Lester, Leonia, N. J. Aqueous dispersions and making same. 1,738,776; Dec. 10.
- Kirschbraun, Lester, Leonia, N. J. Bituminous composition and making same. 1,738,906; Dec. 10.
- Kirschbraun, Lester, Leonia, N. J., assignor to Raybestos Company, Bridgeport, Conn. Asbestos friction clutch ring. 1,710,094; Apr. 23.
- Kirschbraun, Lester, assignor of one-half to F. L. Belknap, Chicago, Ill. Making asphalt. 1,735,503; Nov. 12.
- Kirschbraun, Lester, Leonia, N. J., and Heppes, Otto A., La Grange, Ill., assignors to The Flintkote Company, Boston, Mass. Roofing shingle. 1,722,702; July 30.



- Kirschenbaum, Elias, Yonkers, N. Y. Transfer dyeing process. 1,729,347; Sept. 24.
- Kirschstein, Morris, Brooklyn, N. Y. Illuminating device. 1,728,938; Sept. 24.
- Kirshner, Abraham S., Philadelphia, Pa. Folding rack. 1,717,981; June 18.
- Kirshner, Samuel M., Philadelphia, Pa. Wall paper. Des. 77,965; Mar. 12.
- Kirstein, Otto. (See Avery, Harry H., assignor.)
- Kirsten-Boeing Engineering Co., The. (See Kirsten, Kurt F. J., assignor.)
- Kirsten, Kurt F. J., assignor to The Kirsten-Boeing Engineering Co., Seattle, Wash. Engine-driven marine vessel. 1,740,820; Dec. 24.
- Kirurgiska Instrument Fabriks Aktiebolaget. (See von Wachenfeldt, Adolf C. S., assignor.)
- Kirwer, Christ. (See Ulrey, D., and Kirwer.)
- Kirwer, Christ, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making gas-tight seals between glass and metal. 1,716,140; June 4.
- Kiser, Addison S., Spokane, Wash. Wall seat. 1,712,704; May 14.
- Kisevalter, George G., New York, N. Y. Boat. 1,701,925; Feb. 12.
- Kishimoto, Taro, Tokyo, Japan. Clear-vision apparatus for rapid-running vehicles or ships. 1,726,395; Aug. 27.
- Kishpaugh, Arthur W., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical transmission. 1,707,486; Apr. 2.
- Kisling, Rudolph, Philadelphia, Pa. Covering for dress-suit cases. 1,722,473; July 30.
- Kislinger, Joseph B., assignor to M. B. Kislinger, New York, N. Y. Novelty watch. 1,740,426; Dec. 17.
- Kislinger, Joseph B., assignor to M. B. Kislinger, New York, N. Y. Watch construction. 1,740,427; Dec. 17.
- Kislinger, Marie B. (See Kislinger, Joseph B., assignor.)
- Kispert, Joseph J., Branford, assignor to I. Newman & Sons, Inc., New Haven, Conn. Corset. 1,738,434; Dec. 3.
- Kissam, James B., Wyoming-Millburn, N. J. Toilet-paper-roll carrier. 1,700,265; Jan. 29.
- Kissock, Alan, Forest Hills, N. Y. Molybdenum alloy iron and steel. 1,736,120; Nov. 19.
- Kistler, William W., Brooklyn, N. Y. Lead and slug cutting machine. 1,717,043; June 11.
- Kita, Otonosuke, Los Angeles, Calif. Combined trunk, dresser, and bed. 1,714,878; May 28.
- Kitchen, Joseph M. W., East Orange, N. J. Apparatus for surfacing paper. 1,734,297; Nov. 5.
- Kitchen, Mabel G., et al. (See Kingston, Thomas H., assignor.)
- Kitchin, Boris, Forest Hills, assignor to Filtrators Company, Incorporated, New York, N. Y. Preventing boiler incrustation. 1,704,390; Mar. 5.
- Kitsee, Isidor, Philadelphia, Pa. Radio power pack. 1,720,221; July 9.
- Kitson Machine Shop. (See Shaw, William, assignor.)
- Kittelson, Helmer C., deceased, Fargo, N. Dak., by J. O. Estrem, administrator, assignor to Standard Chain Company, Inc., Minneapolis, Minn. Chain structure. 1,734,383; Nov. 5.
- Kittle, Charles R., assignor to A. E. Overbury, Monrovia, Calif. Framing machine. 1,700,702; Jan. 29.
- Kittle, Charles R., assignor to A. E. Overbury, Monrovia, Calif. Jointer and molding machine. 1,714,470; May 21.
- Kittle, Frank L., Cincinnati, Ohio. Railroad-switch-locking mechanism. 1,705,124; Mar. 12.
- Kittle Manufacturing Company. (See Bulkley, Paul G., assignor.)
- Kitto, William H., Ferndale, Mich. Sound-producing diaphragm. 1,723,550; Aug. 6.
- Kitze, Herman, Owen, Wis. Amusement device. 1,703,770; Feb. 26.
- Kivlan, John L., Roslindale, assignor to one-half to E. A. Onthank, Newton, and one-half to E. L. Donohoe, Roslindale, Mass. Spring jar closure. 1,707,439; Apr. 2.
- Kivley, Ray C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for coating strand material. 1,722,379; July 30.
- Kiwad, Michael, New York, and S. Thau, Brooklyn, assignors to Metropolitan Lamp Co. Inc., New York, N. Y. Combined lighting fixture and stand. Des. 79,970; Nov. 26.
- Kiwi, Walter, assignor to Peerless Springs, Inc., Philadelphia, Pa. Covering to retain cushion and mattress springs and the like. 1,725,282; Aug. 20.
- Kiwi, Walter, assignor to C. E. Landell, Philadelphia, Pa. Coiled-spring attachment. 1,725,356; Aug. 20.
- Kizlar, Henry L., Pensacola, Fla. Variable transmission mechanism. 1,704,896; Mar. 12.
- Kjekstad, Johannes, Brooklyn, N. Y. Conduit construction. 1,700,319; Jan. 29.
- Kjekstad, Johannes, Brooklyn, assignor to one-half to W. Shenstrom, New York, N. Y. Process of and apparatus for electric-arc welding. 1,712,114; May 7.
- Kjellberg, Carl F. G., Trollhattan, Sweden. Internal-combustion motor. 1,698,757; Jan. 15.
- Kjellberg, Carl F. G., Stockholm, Sweden. Fuel-controlling means for the operation of internal-combustion engines with different fuels. 1,713,701; May 21.
- Kjollin, Charles A., Brooklyn, N. Y. Clothesline holder. 1,700,897; Feb. 5.
- Kjellstrom, John H., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Metallic spool. 1,699,700; Jan. 22.
- Kjenstad, Carl J. (See Green, J. M., and Kjenstad.)
- Kjolseth, Ole K., Scotia, N. Y., assignor to General Electric Company. Railway truck. 1,701,375; Feb. 5.
- Kjolseth, Ole K., Scotia, N. Y., assignor to General Electric Company. Restraining device. 1,728,831; Sept. 17.
- Kjolseth, Ole K., Scotia, N. Y., assignor to General Electric Company. Restraining device. 1,728,832; Sept. 17.
- Kjolseth, Ole K., Scotia, N. Y., assignor to General Electric Company. Restraining device. 1,740,357; Dec. 17.
- Klaar, Albert M. (See Greve, J. E. W., and Klaar.)
- Klages, August, Magdeburg-Sudost, Germany. Treatment of seed. 1,706,695; Mar. 26.
- Klages, G. W., & Son, Inc. (See Klages, Norman H., assignor.)
- Klages, Norman H., Pittsburgh, Pa., assignor to G. W. Klages & Son, Inc. Process and apparatus for beveling glass. 1,714,959; May 28.
- Klahn, Edwin, Port Chester, assignor to F. Alexander and M. D. Kopple, New York, N. Y. Pastry-making machine. 1,729,112; Sept. 24.
- Klahn, Emil, and F. L. Mullen, New Vernon, N. J. Thermostatic switch. Re17,453; Oct. 8.
- Klaiber, Walter J., Pittsburgh, Pa., assignor to The Koppers Company. Dehydrating gas. 1,740,248; Dec. 17.
- Klanke, Elmer E., Muskogee, Okla. Building and elevator structure. 1,709,914; Apr. 23.
- Klann, August A., Waynesboro, Va. Combination magnet and primary valve. 1,699,363; Jan. 15.
- Klann, August A., Basic, Va. Combined magnet and valve. 1,703,771; Feb. 26.
- Klasen, Hans, Cologne-Worringen, Germany. Renewable safety fuse. 1,730,661; Oct. 8.
- Klasing, Augustus F., Chicago, Ill. Hand-brake-operating means. 1,722,667; July 30.
- Klasing, Augustus F., Chicago, Ill., assignor to The Klasing Car Brake Company, Denver, Colo. Hand-brake-operating means. 1,704,438; Mar. 5.
- Klasing Car Brake Company, The. (See Klasing, Augustus F., assignor.)
- Klasko, Mike, Sioux City, Iowa. Automatic crossing gate. 1,713,608; May 21.
- Klatt, Theo, Dortmund, Germany. Device for manufacturing templates for molds for grinding deformed spherical surfaces. 1,727,434; Sept. 10.
- Klauber, Charles W. (See Westfall, M. C., Klauber, and Foster.)
- Klaucke, Hermann, Worcester, assignor to Baldwin Chain & Mfg. Co., Auburn, Mass. Driving-chain casing. 1,722,581; July 30.
- Klauder, George C., et al. (See Goeckler, Frank E., assignor.)
- Klaus, Fred R. (See Meyer, F. H., and Klaus.)
- Klaus, Fred R., assignor to The American Welding and Manufacturing Company, Warren, Ohio. Forming annular flanges. 1,710,930; Apr. 30.
- Klaus, Fred R., and F. H. Meyer, assignors to The American Welding and Manufacturing Company, Warren, Ohio. Cushion-tire structure. 1,730,576; Oct. 8.
- Klaus, Herman K., Brooklawn, N. J. Scraper. 1,704,329; Mar. 5.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Monoarm control. 1,708,420; Apr. 9.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Sleeve suspension for drills. 1,710,829; Apr. 30.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Shaft guard. 1,721,740; July 23.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Quick-acting depth gauge. 1,727,607; Sept. 10.
- Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Spindle counterbalance. 1,729,583; Sept. 24.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Head-translating mechanism for radial drills. 1,731,466; Oct. 15.
- Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Simplified mount for concentrically-suspending sleeves. 1,731,670; Oct. 15.
- Klausmeyer, David C., assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Telescoping arm clamp. 1,734,523; Nov. 5.
- Klausmeyer, David C., and H. M. Norris, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio. Constant-drive radial drill. 1,727,606; Sept. 10.
- Klebanoff, David, et al. (See Grossman, Samuel, assignor.)
- Klebanoff and Grossman. (See Grossman, Samuel.)
- Klecker, Harry, Binghamton, assignor to The Tabulating Machine Company, Endicott, N. Y. Quick-setting device for brush holders. 1,741,992; Dec. 31.
- Klee, Otto F., and H. J. Fullerton, assignors to Hunter Saw and Machine Company, Pittsburgh, Pa. Automatic saw machine. 1,730,938; Oct. 8.
- Kleeman, Richard D., Schenectady, N. Y. Electroscope. 1,716,700; June 11.
- Kleeman, Richard D., Schenectady, N. Y. Ultraviolet-light therapeutic appliance. 1,725,357; Aug. 20.
- Kleen Kap Corporation. (See Goldie, Joseph L., assignor.)
- Klees, Albert L., assignor to Combustion Utilities Corporation, New York, N. Y. Lubricating composition. 1,727,109; Sept. 3.



- Klees, Albert L., assignor to Combustion Utilities Corporation, New York, N. Y. Burning liquid fuel. 1,740,249; Dec. 17.
- Klees, Albert L., and R. P. Soule, assignors to Combustion Utilities Corporation, New York, N. Y. Wood-preserving composition and fungicide. 1,720,905; July 16.
- Kleffman, John, Hibbing, Minn. Snare. Re17,534; Dec. 24.
- Kleffman, John, Hibbing, Minn. Snare. 1,718,908; June 25.
- Kleffman, John, Hibbing, Minn. Snare. 1,731,381; Oct. 15.
- Kleffman, John, Hibbing, Minn. Snare. 1,733,461; Oct. 29.
- Kleffman, John, Hibbing, Minn. Snare. 1,738,907; Dec. 10.
- Klega, Edward A., West Easton, Pa., assignor of one-half to G. H. Stucke, Phillipsburg, N. J. Thermostatic cut-off valve for fuel burners. 1,708,446; Apr. 9.
- Klehm, Henry, assignor to Safety Appliance Co., South Milwaukee, Wis. Tool guard. 1,699,593; Jan. 22.
- Klehm, Henry J., South Milwaukee, Wis. Saw guard. 1,712,828; May 14.
- Klehr, William, Forest Hills, assignor to Edw. F. Caldwell & Company, Inc., New York, N. Y. Electric-light fixture. 1,718,154; June 18.
- Klehr, William, Forest Hills, assignor to Edw. F. Caldwell & Company, Inc., New York, N. Y. Electric-light fixture. 1,718,155; June 18.
- Klein, Benjamin, New York, N. Y. Bookmark. 1,700,846; Feb. 5.
- Klein, Carl P., assignor to The Klein Structural Steel Company, Bellevue, Ohio. Quick lift for automobiles. 1,726,988; Sept. 3.
- Klein, Carl P., assignor to The Klein Structural Steel Company, Bellevue, Ohio. Oiling rack. 1,726,989; Sept. 3.
- Klein, Charles H., Rutherford, N. J., and E. St. John, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Cable clamp and bridle ring. 1,700,168; Jan. 29.
- Klein, Erick, Chicago, Ill. Removable window sash. 1,727,993; Sept. 10.
- Klein, Ernst, Lengerich in Westfalen, Germany. Manufacture of bags. 1,721,399; July 16.
- Klein, Erwin, Voslau, near Vienna, Austria, assignor to The Fleischmann Company, New York, N. Y. Manufacture of yeast. 1,722,803; July 30.
- Klein, Frederick H., Harvey, Ill. Identification tag. 1,733,805; Oct. 29.
- Klein, Friedrich, Baden, Germany, assignor to B. Hirsh, Buffalo, N. Y. Ingot mold. 1,710,931; Apr. 30.
- Klein, George. (See Stedelin, J. W., and Klein.)
- Klein, George C., Little Rock, Ark. Score board for a game. Des. 78,395; Apr. 30.
- Klein, George S., Granger, Wash. Grinding attachment. 1,698,336; Jan. 8.
- Klein, Gordon. (See Morris, G. D., and Klein.)
- Klein, Hermann, assignor to Klein, Weiner & Bell, Milwaukee, Wis. Apparatus for cleaning fabrics. 1,723,514; Aug. 6.
- Klein, Hermann, assignor to Klein, Weiner & Bell, Milwaukee, Wis. Apparatus for finishing and rolling cleaned rugs and the like. 1,740,925; Dec. 24.
- Klein, James J., New York, assignor to The Superlative Novelty Co., Brooklyn, N. Y. Material-dispensing device for containers. 1,739,678; Dec. 17.
- Klein, John H., Denver, Colo. Trailer hitch. 1,699,397; Jan. 15.
- Klein, Karl, St. Louis, Mo. Self-inking stamp. 1,716,642; June 11.
- Klein, Karl, St. Louis, Mo. Sewing machine. 1,728,734; Sept. 17.
- Klein, Martin A., New York, N. Y. Pendant for wearing apparel. Des. 78,162; Apr. 2.
- Klein, Matthew, assignor of one-half to Hart-Albin Co., Billings, Mont. Merchandise-ticket-auditing device. 1,718,212; June 25.
- Klein, Matthew, assignor of one-half to Hart-Albin Co., Billings, Mont. Merchandise-ticket-auditing device. 1,718,213; June 25.
- Klein, Max, Chicago, Ill. Electrical condenser. 1,708,764; Apr. 9.
- Klein, Maximilian, Lansdale, Pa., assignor to American Machine & Foundry Company. Paper-inserting device for cigarette-machine printers. 1,740,605; Dec. 24.
- Klein, Melitta, Vienna, Austria, assignor to Ruth-Aldo Company, Incorporated, New York, N. Y. Apparatus for spinning solutions of cellulose ethers or esters. 1,716,781; June 11.
- Klein, Paul, and A. Szegevári, Budapest, Hungary, assignor to The Anode Rubber Company, Limited, London, England. Manufacture of rubber goods. 1,708,181; Apr. 9.
- Klein, Paul, and A. Szegevári, Budapest, Hungary, assignors to The Anode Rubber Company Limited, London, England. Manufacture of rubber goods. 1,719,984; July 9.
- Klein, Paul M., Cedarhurst, N. Y. Heating device. 1,713,535; May 21.
- Klein Structural Steel Company, The. (See Klein, Carl P., assignor.)
- Klein, Victor, Sacramento, Calif. Dental plate joint. 1,707,862; Apr. 2.
- Klein, Victor W., Lake Charles, La. Freezer. 1,708,729; Apr. 9.
- Klein, Weiner & Bell. (See Klein, Hermann, assignor.)
- Klein, William H., Richard City, Tenn. Rigid spray head. 1,716,174; June 4.
- Klein, William H., Richard City, Tenn. Spray head and method of spraying. 1,716,175; June 4.
- Kleinberg, Gustave, La Rochelle, France. Device for molding combustible egettes. 1,715,297; May 28.
- Kleinberg, Hyman, Brooklyn, N. Y. Hat and making same. 1,709,856; Apr. 23.
- Kleindienst, Louis, Beverly Hills, Calif. Spectacle frame. Des. 79,557; Oct. 8.
- Kleineberg, Paul E., Brewster, assignor to American Assembling Machine Company, New York, N. Y. Sheet feeder. 1,709,857; Apr. 23.
- Kleineberg, Paul E., Brewster, assignor to American Assembling Machine Company, New York, N. Y. Book-squeezing mechanism. 1,720,680; July 16.
- Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
- Kleinert, I. B., Rubber Company. (See Moss, Jack J., assignor.)
- Kleinert, Karl, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Searchlight. 1,721,454; July 16.
- Kleinewefers, Johannes. (See Schroers, Willy, assignor.)
- Kleinfeldt, Henry F., Hopatcong Borough, N. J., assignor to Abbe Engineering Co. Grinding or pulverizing gummy, pasty, or viscous material. 1,739,761; Dec. 17.
- Kleinlercher, Anthony, Brooklyn, assignor to Aaron M. Sloss, New York, N. Y. Fitting for coffee urns. 1,722,804; July 30.
- Kleinmeyer, T. E., et al. (See Dopyera, John, assignor.)
- Kleinow, Walter, Hennigsdorf, near Berlin, A. Morgenroth, Niederneudorf, F. Reinhardt, Hennigsdorf, near Berlin, and W. Bruer, Velden, assignors to the firm Allgemeine Elektrizitäts-Gesellschaft, Berlin, Germany. Furnace for pulverulent fuel. 1,739,035; Dec. 10.
- Kleinschmidt, Daniel H., Los Angeles, Calif. Amalgamator. 1,708,970; Apr. 16.
- Kleinschmidt, Edward E., assignor, by mesne assignments, to Morkrum Kleinschmidt Corporation, Chicago, Ill. Selective system and apparatus. 1,703,152; Feb. 26.
- Kleinschmidt, Edward E., assignor by mesne assignments, to Teletype Corporation, Chicago, Ill. Motor construction and regulating means therefor. 1,732,367; Oct. 22.
- Kleinschmidt, Harry D., Westmont, N. J. Adjustable motor-vehicle seat. 1,742,037; Dec. 31.
- Kleinschmit, Oscar, assignor to Gebrüder Brehmer Maschinenfabrik, Leipzig-Plagwitz, Germany. Signature gathering and stitching machine. 1,738,586; Dec. 10.
- Kleinsmith, Horace B., F. R. Neely, and F. W. Doll, assignors to A. H. Balliet Corporation, Allentown, Pa. Box-wrapping machine. 1,733,229; Oct. 29.
- Klement, Wilhelm, Neu-Finkenkrug, near Spandau, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, Germany. Automatic electromagnetic circuit breaker. 1,714,933; May 28.
- Klemgard, Edwin N. (See Davis, W. N., Hampton, and Klemgard.)
- Klemish, Leon E., and W. L. Lowe, Marion, Iowa. Closet-bowl ventilator. 1,700,936; Feb. 5.
- Klemm, Edward, Boonton, N. J. Method of and device for finishing the foot portions of stockings. 1,716,066; June 4.
- Klemm, Edwin O. (See Judson, R. V., Davis, and Klemm.)
- Klemm, Edwin O., Saginaw, Mich. Adjustable chair back. 1,699,894; Jan. 22.
- Klemm, Herman, San Francisco, Calif. Torch. 1,699,488; Jan. 15.
- Klemm, Herman G., San Francisco, Calif. Rotary atomizing burner. 1,697,279; Jan. 1.
- Klemm, Herman G., San Francisco, Calif. Burner mounting. 1,733,499; Oct. 29.
- Klemm, Hermann A., Mamaroneck, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for overseaming sewing machines. 1,709,793; Apr. 16.
- Klemm, Omer M., Keyser, W. Va. Ironing board. 1,721,044; July 16.
- Klemme, Maurice G., Belleville, Ill. Range construction. 1,706,454; Mar. 26.
- Klemme, Maurice G., assignor to Eagle Foundry Company, Belleville, Ill. Heating stove. 1,728,241; Sept. 17.
- Klemp, Carl. (See Klemp, Charles F., assignor.)
- Klemp, Charles F., assignor of one-half to C. Klemp, El Monte, Calif. Burglar alarm. 1,701,681; Feb. 12.
- Klemperer, Wolfgang, Aachen, Germany. Load-factor indicator for aircraft. 1,727,310; Sept. 3.
- Klenow, Erik W. R., Frederiksberg, near Copenhagen, Denmark. Motion-controlling device. 1,739,906; Dec. 17.
- Kleppe, Ernest J., Reno, Nev. Sod plow. 1,733,373; Oct. 29.
- Klepsch, Wilhelm, Vienna, Austria. Casting with the aid of gaseous pressure mediums. 1,703,739; Feb. 26.
- Kleschka, John J., Waterbury, Conn. Fob. 1,715,238; May 28.
- Klestinski, John. (See Berger, H., and Klestinski.)
- Klever, William E., assignor to The Washington Mortuary Supply Company, Washington C. H., Ohio. Ambulance cot. 1,702,010; Feb. 12.
- Klieber, Paul, Indianapolis, Ind. Belt power-transmitting mechanism. 1,733,968; Oct. 29.



- Kliefoth, Max, assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Laminated fibrous sheet. 1,737,285; Nov. 26.
- Kliefoth, Max, assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Tapered fibrous sheet. 1,737,286; Nov. 26.
- Kliegl Bros. Universal Electric Stage Lighting Co. (See Kliegl, Herbert A., assignor.)
- Kliegl, Herbert A., assignor to Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y. Spotlight. 1,740,463; Dec. 24.
- Kliegl, Joseph, Hollis, N. Y. Solenoid. 1,730,735; Oct. 8.
- Kliem, Rudolf, and S. F. Urbaniak, Milwaukee, Wis. Releasable draft coupling for tractors. 1,700,767; Feb. 5.
- Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
- Klimala, Joseph, Chicago, Ill. Railway signal. 1,739,842; Dec. 17.
- Klimek, Gustav A., East Rutherford, N. J., assignor to Turbine Patents Corporation, New York, N. Y. Power-transmitting mechanism. 1,711,095; Apr. 30.
- Klimowicz, Paul, Stevens Point, Wis. Changeable sign. 1,712,829; May 14.
- Klin, John R., assignor to The Rike Folding Box Company, Dayton, Ohio. Clip. 1,698,502; Jan. 8.
- Kline, Bruce B., Minneapolis, Minn. Combined chair and table. 1,719,270; July 2.
- Kline, Edward C., Streator, Ill. Heating apparatus. 1,735,438; Nov. 12.
- Kline, Eugene F., Los Angeles, Calif. Brick veneer and system. 1,711,026; Apr. 30.
- Kline, Fred J., Bayville, N. Y. Binder. 1,707,227; Apr. 2.
- Kline, Gertrude, Allentown, Pa. Hammock. 1,714,095; May 21.
- Kline, Harmon J., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,697,011; Jan. 1.
- Kline, Harry F. (See Fretz, W. F., and Kline.)
- Kline, Julius R. (See Wattells, Frank S., assignor.)
- Kline, William R., New York, N. Y., assignor to The McBee Binder Company, Athens, Ohio. Bookbinder. 1,734,134; Nov. 5.
- Kling, Elmer M., Brighton, assignor to Moore and Kling, Inc., Boston, Mass. Fluid-distributing apparatus. 1,722,985; July 30.
- Kling, Fred E., Youngstown, Ohio. Regenerative furnace. 1,735,687; Nov. 12.
- Klingbeil, Edward, Oak Park, Ill. Heater. 1,720,365; July 9.
- Klingel, Robert H., Detroit, Mich. Key-operated lock. 1,735,868; Nov. 19.
- Klingemann, Charles B., South Weymouth, Mass. Storage heater. 1,705,574; Mar. 19.
- Klingensmith, Addison R., Parnassus, Pa. Combination-lock switch. 1,739,003; Dec. 10.
- Klinger, Harry W., Sunbury, Pa. Cable splitter. 1,739,972; Dec. 17.
- Klinger, James L., and C. L. Boyle, Detroit, Mich. Preparation for cleaning metal preparatory to painting. 1,700,739; Feb. 5.
- Klingia, Rebecca, Salt Lake City, Utah. Combination license plate and tail light for vehicles. 1,715,133; May 28.
- Klingler, Albert E., Elkhart, Ind. Key for wind musical instruments. 1,728,553; Sept. 17.
- Klinkenstein, Gustave, Newark, and G. D. Magnus, East Orange, assignors to Maas & Waldstein Co., Newark, N. J. Impregnating composition board. 1,705,090; Mar. 12.
- Klinker, Herman H. D., New York, N. Y. Flying machine. 1,738,010; Dec. 3.
- Klinkman, Charles, Detroit, Mich. Driving and steering mechanism for vehicles. 1,713,084; May 14.
- Klinzing, August F., Milwaukee, Wis. Animal drinking fountain. 1,738,300; Dec. 3.
- Klippel, George H., Syracuse, N. Y. Gauge for disk grinders. 1,733,687; Oct. 29.
- Klipstein, Louis F., and J. U. Barr, New Orleans, La. Mop-wiring machine. 1,707,165; Mar. 26.
- Klitsche, Amandus N., Chicago, Ill. Surveying target. 1,713,085; May 14.
- Klock, Raymond A., Closter, N. J., assignor to Gould Storage Battery Company, Inc., New York, N. Y. Switch plate. 1,701,781; Feb. 12.
- Klock, Raymond A., Closter, N. J., assignor, by mesne assignments, to Gould Storage Battery Company, Inc. Storage battery. 1,727,887; Sept. 10.
- Klocke, William H., Woodhaven, N. Y., assignor to Kalman Steel Company, Chicago, Ill. Window sash. 1,699,000; Jan. 15.
- Klocke, William H., Woodhaven, N. Y., assignor to Kalman Steel Company, Inc., Chicago, Ill. Slitting blanks for expanded load-bearing members. 1,699,846; Jan. 22.
- Klocke, William H., Woodhaven, N. Y., assignor to Kalman Steel Company, Chicago, Ill. Expander. 1,708,673; Apr. 9.
- Klodnyckij, Vladimir, Chicago, Ill. Swimming device. 1,706,978; Mar. 26.
- Kloess, Hans K., Hamburg, Germany. Shipbuilding. 1,736,315; Nov. 19.
- Kloess, Hans K., Hamburg, Germany. Hull construction. 1,737,886; Dec. 3.
- Kloess, Hans K., Hamburg, Germany, assignor to E. R. F. Maier, Bremen, Germany, and W. K. Maier, Vienna, Austria. Ship's hull. 1,729,544; Sept. 24.
- Kloneck, August J., New York, N. Y. Electrical signaling. 1,703,197; Feb. 26.
- Klongland, Henry M. (See Johnson, Peter A., assignor.)
- Kloninger, Hans C., Wettingen, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. System and apparatus for operating one or more electrical power auxiliary stations from a central station. 1,741,993; Dec. 31.
- Klönne, Aug. (See Schürmann, Friedrich, assignor.)
- Klopfstein, Ernest, Chicago, Ill., assignor to North Western Art Shade Co. Lamp shaft. Des. 77,840; Feb. 26.
- Klopfstein, Ernest, Chicago, Ill., assignor to North Western Art Shade Co. Lamp base. Des. 77,841; Feb. 26.
- Klopp, Aaron T., assignor to Klopp Printing Company, Omaha, Nebr. Document file. 1,721,344; July 16.
- Klopp Printing Company. (See Klopp, Aaron T., assignor.)
- Klos, Edward W., and G. E. Klos, Muskogee, Okla. Awning. 1,726,355; Aug. 27.
- Klos, Erwin L., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bed bottom. 1,732,814; Oct. 22.
- Klos, George E. (See Klos, Edward W., and G. E.)
- Klose, Max O., Sandusky, Ohio. Slide valve. 1,727,068; Sept. 3.
- Kloss, Ulrich, Berlin, Germany. D. C. railway system. 1,722,582; July 30.
- Klosterman, Joseph J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,731,929; Oct. 15.
- Kluck, Emil, Howells, Nebr. Horsemanship device. 1,729,584; Sept. 24.
- Klug, Alfred, Crimmitschau, Germany. Napping machine. 1,720,735; July 16.
- Kluge, Karl. (See Moeller, M., Schleicher, and Kluge.)
- Klum, Blaine, Oakland, Calif. Football apparatus. 1,717,693; June 18.
- Klumpp, Carl S., Brooklyn, N. Y. Door lock. 1,715,505; June 4.
- Klumpp, Gottlob, New York, N. Y. Electric cooking stove. 1,708,422; Apr. 9.
- Kluse, Peter G., Los Angeles, Calif. Aeroplane construction. 1,712,705; May 14.
- Klusmeier, August. (See Beaver, Harry R., assignor.)
- Klutho, Henry J., Jacksonville, Fla. Driving device for miniature golf balls. 1,700,589; Jan. 29.
- Klutho, Henry J., Jacksonville, Fla. Driving device for miniature golf balls. 1,739,467; Dec. 10.
- Klutho, Henry J., Jacksonville, Fla. Golf club. 1,739,468; Dec. 10.
- Klutz, Austin F. (See McClure, W. J., and Klutz.)
- Klyaich, Stoyan, West Allis, Wis. Portable shelter. 1,713,439; May 14.
- Knaak, George A., Milwaukee, Wis., assignor, by mesne assignments, to Penn Electric Switch Co., Des Moines, Iowa. Snap-action mechanism. Re17,304; May 28.
- Knaak, George A., Milwaukee, Wis., assignor, by mesne assignments, to Penn Electric Switch Co., Des Moines, Iowa. Thermal controlling system. 1,708,309; Apr. 9.
- Knaak, George A., Milwaukee, Wis., assignor, by mesne assignments, to Penn Electric Switch Co., Des Moines, Iowa. Electric switch mechanism. 1,731,580; Oct. 15.
- Knab, Hermann, Nuremberg, Germany, assignor of one-half to P. Schuler, Lausanne, Switzerland. Borehole and other pumps. 1,714,425; May 21.
- Knape, Charles N. F., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lubricant-retaining device. 1,729,445; Sept. 24.
- Knapen, Achille, Brussels, Belgium, assignor to Compagnie Générale d'Assèchement & d'Aération, Société Anonyme, Paris, France. Drying buildings. 1,727,546; Sept. 10.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle radiator cap. Des. 77,603; Jan. 29.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,704,798; Mar. 12.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,722,331; July 30.
- Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,726,183; Aug. 27.
- Knapp, Clarence M., Cicero, Ind. Rail anchor. 1,699,195; Jan. 15.
- Knapp, Clyde A., Harvey, Ill. Crosshead. 1,707,228; Apr. 2.
- Knapp, David R., Philadelphia, Pa. Material-handling apparatus. 1,739,598; Dec. 17.
- Knapp, Eber G., Los Angeles, Calif. Making embossing dies. 1,715,763; June 4.
- Knapp, Fred H., Corporation, The. (See Koch, William J., assignor.)
- Knapp, George S., Highland Park, Mich. Multiple-tub washing machine and wringer. 1,714,511; May 28.
- Knapp, John C., Jr., Madison, Nebr. Loading device. 1,733,969; Oct. 29.
- Knapp, John G. and C. A. Woodall, Jr., Elizabeth, N. J. Illuminated house number and push button. 1,705,485; Mar. 19.
- Knapp, Kenneth V., assignor to Hanovia Chemical & Mfg. Co., Newark, N. J. Water-signal switch. 1,725,358; Aug. 20.
- Knapp-Monarch Company. (See Johnson, Ernest S., assignor.)



- Knapp, Ralph T., assignor of one-half to H. N. Jasper, jr., Mount Kisco, N. Y. Method and apparatus for neutralizing electrical disturbances. 1,733,414; Oct. 29.
- Knapp, Raymond S., New York, N. Y. Pocket lighter. 1,702,121; Feb. 12.
- Knapp, Raymond S., New York, N. Y. Pocket lighter. 1,715,931; June 4.
- Knapp, Walter E., Lowell, Mass. Toothbrush. 1,729,167; Sept. 24.
- Knapp, Walter E., Lowell, Mass. Toothbrush. 1,729,168; Sept. 24.
- Knauer, Carroll H., assignor to Austin Machinery Corporation, Muskegon, Mich. Trenching machine. 1,729,744; Oct. 1.
- Knauf, Carl, Kirkland, Wash. Lawn-mower-sharpening apparatus. 1,740,464; Dec. 24.
- Knauff, Paul W., Cynwyd assignor to Schutte and Koerting Company, Philadelphia, Pa. Trip-valve structure. 1,722,754; July 30.
- Knaur, John S., and J. W. Thompson, Longview, Wash.; said Thompson assignor to said Knaur. Vehicle seat. 1,701,044; Feb. 5.
- Knauss, John B., assignor to The Portsmouth Stove & Range Company, Portsmouth, Ohio. Refrigerator. 1,701,463; Feb. 5.
- Knauss, John B., jr., assignor to The Portsmouth Stove & Range Company, Portsmouth, Ohio. Heater. 1,707,200; Mar. 26.
- Knauss, Orville W. (See Harris, D. B., and Knauss.)
- Kneass, Strickland L., assignor to Williams Sellers & Company, Incorporated, Philadelphia, Pa. Continuously supplying steam at low pressure to injectors. 1,12,148; May 7.
- Knebel, Walter J., Buffalo, Wyo. Fracture table. 1,697,121; Jan. 1.
- Knecht, Oskar, Binningen, near Basel, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Manufacture of azodyestuffs for dyeing cellulose esters. 1,711,390; Apr. 30.
- Knecht, Oskar, Binningen, near Basel, assignor to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Manufacture of azodyestuffs for dyeing cellulose esters. 1,711,391; Apr. 30.
- Kneeland, Walter R., Pittsburgh, Pa. Hot-mill structure and operation. 1,700,267; Jan. 29.
- Kneen, Herbert L., Whitneyville, Conn. Tire support. 1,734,384; Nov. 5.
- Knepper, Donald, Cleveland, Ohio. Perspiration pad. 1,697,919; Jan. 8.
- Knettles, Walter L., Groton, N. Y. Carrier for snelled fish-books. 1,737,376; Nov. 26.
- Kneuper, Alexander D., Los Angeles, Calif., assignor to L. Kneuper. Apparatus for lifting viscous fluids. 1,740,821; Dec. 24.
- Kneuper, Louise. (See Kneuper, Alexander D., assignor.)
- Kniatt, Stephen J., Philadelphia, Pa. Welding. 1,703,111; Feb. 26.
- Knickerbocker Case Company. (See Labadie, H. H., and Beers, assignors.)
- Knickerbocker, Earl, Moline, Kans. Electrical plug connection. 1,727,347; Sept. 10.
- Kniesel, William L., San Diego, Calif. Boiler compound. 1,735,402; Nov. 12.
- Knight American Patents Company. (See Knight, Charles Y., assignor.)
- Knight, B. B. & R., Corporation. (See Watson, John C., assignor.)
- Knight, Charles Y., Pasadena, Calif., assignor to Knight American Patents Company, Chicago, Ill. Multiple piston. 1,722,635; July 30.
- Knight, Charles Y., Pasadena, Calif., assignor to Knight American Patents Company, Chicago, Ill. Internal-combustion engine. 1,741,994; Dec. 31.
- Knight, Donald B., Brooklyn, N. Y. Refrigeration. 1,735,869; Nov. 19.
- Knight, Edward A. and R. H. Folkes, assignors to D. & W. Gibbs Limited, London, England. Metal box. 1,709,584; Apr. 16.
- Knight, Frank H., Lancaster, Pa. Supplemental seat attachment. 1,707,913; Apr. 2.
- Knight, Frederic B., Iowa City, Iowa. Educational device. 1,732,315; Oct. 22.
- Knight, George D., Redwood City, Calif., assignor to E. Winship, Macon, Ga. Intaglio ink composition. 1,722,925; July 30.
- Knight, George D., Redwood City, Calif., assignor to E. Winship, Macon, Ga. Printing ink. 1,724,603; Aug. 13.
- Knight, George D., Redwood City, Calif., assignor to E. Winship, Macon, Ga. Ink composition and manufacturing the same. 1,725,649; Aug. 20.
- Knight, George D., Redwood City, Calif., assignor to E. Winship, Macon, Ga. Acid-resisting apparatus. 1,739,843; Dec. 17.
- Knight, Harry W., Toronto, Ontario, Canada. Bowl for fluid-measuring pumps. 1,711,796; May 7.
- Knight, Herbert M., Montclair, N. J. Floor. 1,697,070; Jan. 1.
- Knight, Herbert M., Montclair, N. J. Building block. 1,709,403; Apr. 16.
- Knight, Herbert M., Upper Montclair, N. J. Key. 1,726,903; Sept. 3.
- Knight, Hugh, Riverside, assignor to California Spray Chemical Company, Watsonville, Calif. Emulsifiable oil, oil emulsion, and making the same. 1,707,469; Apr. 2.
- Knight, Hugh, Riverside, assignor to California Spray Chemical Company, Watsonville, Calif. Parasiticide oil. 1,707,470; Apr. 2.
- Knight, James S., Southgate, assignor to A. M. A. C. Limited, Birmingham, England. Device for operating Bowden cables and the like. 1,716,141; June 4.
- Knight, Montgomery, Holyoke, Mass., assignor to Westinghouse Electric & Manufacturing Company. Compensating device. 1,724,405; Aug. 13.
- Knight, Montgomery, Holyoke, Mass., assignor to Westinghouse Electric and Manufacturing Company. Indicating device. 1,723,554; Sept. 17.
- Knight, Ollie W., and J. B. Wesley, Hammond, La. Advertising apparatus. 1,717,226; June 11.
- Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Assorting apparatus. 1,713,536; May 21.
- Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-cutting machine. 1,715,660; June 4.
- Knight, Reginald F., and F. Lynch, Burnham, England. Toughening and hardening taps for cutting screw threads, milling cutters, and other cutting tools. 1,701,570; Feb. 12.
- Knill, Anthony J., Cicero, Ill. Radio socket and tube. 1,701,571; Feb. 12.
- Knipe, Henry H. (See Barbour, R. M., and Knipe.)
- Knipping, Michael J., Westbury, N. Y. Sod cutter. 1,732,972; Oct. 22.
- Knisely, Oliver A. (See Schwanzel, L. G., and Knisely.)
- Kniskern, Walter H., Syracuse, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Treating synthesis gases of synthetic-ammonia plants and apparatus therefor. 1,721,455; July 16.
- Knittel, Paul S. (See Elzemeyer, E. H., and Knittel.)
- Knittel, Paul S., Jersey City, N. J. Pulverizing machine. 1,698,268; Jan. 8.
- Knittel, Paul S., Jersey City, N. J. Pulverizer. 1,698,758; Jan. 15.
- Knittel, Paul S., Jersey City, N. J. Pulverizing machine. 1,721,821; July 23.
- Knittel, Paul S., Jersey City, N. J. Feeder for crushers, pulverizers, and belt conveyers. 1,725,283; Aug. 20.
- Kniznik, David S., Providence, R. I. Automatic automobile lighting device. 1,710,879; Apr. 30.
- Knob, Methodius. (See Schwenk, E., Reichner, and Knob.)
- Knobbe, Henry B., Spearville, Kans. Disk-farming apparatus. 1,726,842; Sept. 3.
- Knobloch, Walter H., Erie, assignor to Erie Art Metal Company, Millcreek Township, Erie County, Pa. Corner structure. 1,735,047; Nov. 12.
- Knoblock, Ernest V. (See Bresson, R. H., and Knoblock.)
- Knoche, Rudolf. (See Hentrich, W., Hardtmann, and Knoche.)
- Knoche, Rudolf. (See Hentrich, W., Knoche, and Hardtmann.)
- Knoche, Louis T., Detroit, Mich. Centrifugal casting machine. 1,731,051; Oct. 8.
- Knoderer, Homer G., Fairfield, Conn., assignor to General Electric Company. Fixture stud for outlet boxes. 1,723,866; Aug. 6.
- Knoll, Paul H., Excelsior, Minn. Attachment for railway mail and express cars. 1,703,153; Feb. 26.
- Knoll, Paul H., Independence, Mo. Attachment for railway mail and express cars. 1,727,547; Sept. 10.
- Knoop, William A., Hempstead, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph system. 1,719,477; July 2.
- Knoop, William A., Hempstead, assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph system. 1,722,050; July 23.
- Knoop, William A., Hempstead, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Synchronous vibratory relay system. 1,730,614; Oct. 8.
- Knopf, Henry, North Tonawanda, N. Y. Stand for hammocks and the like. 1,706,029; Mar. 19.
- Knopp, Otto A., Oakland, Calif. Phase-sequence indicator. 1,703,345; Feb. 26.
- Knopp, Rudolf, New York, N. Y. Rotary engine. 1,701,534; Feb. 12.
- Knörer, Hans, assignor to A. W. Faber "Castell" Bleistift-Fabrik A. G., Nuremberg, Germany. Pencil container. 78,999; July 16.
- Knorpp, Philip J., Brooklyn, N. Y. Comic camera. 1,703,346; Feb. 26.
- Knorr, Angelo, Berlin, and A. Weissenborn, Potsdam, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Preparing keto-alcohols. 1,714,378; May 21.
- Knorr, Angelo, Berlin, and A. Weissenborn, Potsdam, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Making unsaturated aldehyde and the product thereof. 1,716,322; June 11.
- Knorr, Max W., Maywood, Ill. Pipe-laying machine. 1,726,438; Aug. 27.
- Knostman, George H., Minster, Ohio. Clothes and hat hanger. 1,706,887; Mar. 26.
- Knoth, Conrad, Hillside, N. J., assignor to General Motors Corporation, Detroit, Mich. Apparatus for feeding articles. 1,712,081; May 7.
- Knoth, Hilary G., Detroit, Mich. Adjustable clothes prop. 1,731,382; Oct. 15.



- Knott, Archer F., deceased, Dinwiddie; C. L. Knott, executor, assignor to Richmond Pressed Metal Works, Incorporated, Richmond, Va. Combined rake and hoe. 1,734,861; Nov. 5.
- Knott, Charles L., executor. (See Knott, Archer F.)
- Knott, Henderson W., assignor to Rail Welding and Bonding Company, Cleveland, Ohio. Welding stick. 1,704,978; Mar. 12.
- Knott, Levi, Altoona, Pa. Wheeled musical toy. 1,711,096; Apr. 30.
- Knott, Levi, Altoona, Pa. Kite. 1,734,493; Nov. 5.
- Knott, Warren E., Grand Rapids, Mich., assignor, by mesne assignments, to Improved Button Cutting Corporation, Dover, Del. Button-blank-cutting machine. 1,700,412; Jan. 29.
- Knott, Warren E., Grand Rapids, Mich., assignor to Pioneer Pearl Button Company, Poughkeepsie, N. Y. Plug dresser. 1,734,256; Nov. 5.
- Knotts, Charles L. (See Dann, W. M. Knotts, Thompson, and Hill.)
- Knowland, T. M., and H. A. Hands, assignors to Hood Rubber Company, Watertown, Mass. Temperature-regulating apparatus. 1,699,296; Jan. 15.
- Knowland, Thomas M. (See Glidden, A. A., and Knowland.)
- Knowland, Thomas M. (See Glidden, A. A., Knowland, and Davis.)
- Knowland, Thomas M. (See Glidden, A. A., Knowland, and Greim.)
- Knowland, Thomas M., and A. Drechsler, assignors to Hood Rubber Company, Watertown, Mass. Lasting jack. 1,708,971; Apr. 16.
- Knowles, Alexander S. (See Cox, T., Requa, and Knowles.)
- Knowles, Alexander S., St. Louis, Mo., assignor to Tar & Petroleum Process Company, Chicago, Ill. Treating tarry matter, heavy hydrocarbon residues, and the like. 1,717,884; June 18.
- Knowles, Arthur F., Upper Montclair, N. J. Extension pipe sleeve. 1,699,147; Jan. 15.
- Knowles, John H., Scarsdale, assignor to The Dorr Company, New York, N. Y. Bar-screen scraper. 1,734,813; Nov. 5.
- Knowles, La Forest, Portland, Me. Door lock. 1,697,569; Jan. 1.
- Knowles, Louis T., Minneapolis, Minn. Work holder. 1,723,356; Aug. 6.
- Knowles, Renne W. (See Gielt, A. B., and Knowles.)
- Knowles, William H., assignor, by mesne assignments, to General Bottle Cap Corporation, Port Chester, N. Y. Closure. 1,712,274; May 7.
- Knowlton, Harry N., Chicago, Ill., assignor to Weyerhaeuser Forest Products, St. Paul, Minn. Crate. 1,724,487; Aug. 13.
- Knowlton, M. D., Company. (See Adams, Thomas W., assignor.)
- Knowlton, M. D., Company. (See De Smith, Henry, assignor.)
- Knowlton, M. D., Company. (See De Smith, H., and Church, assignors.)
- Knowlton, M. D., Company. (See Hawkins, Edgar M., assignor.)
- Knowlton, M. D., Company. (See Ostrander, Harold W., assignor.)
- Knowlton, Norwood H., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-trimming machine. 1,724,205; Aug. 13.
- Knowlton, Norwood H., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. 1,738,587; Dec. 10.
- Knowlton, Theodore E., Buffalo, N. Y. Method and apparatus for preventing offset in printing. 1,731,467; Oct. 15.
- Knowlton, Theodore E., Buffalo, N. Y., assignor, by mesne assignments, to Certain-teed Products Corporation. Wall board. 1,701,454; Feb. 5.
- Knox, Arthur S., Glendale, Calif., assignor, by mesne assignments, to E. R. Just. Camber-measuring device. 1,712,889; May 14.
- Knox, Charles B., Gelatine Company. (See Neff, Andrew, assignor.)
- Knox, Harry A. (See Campbell, L. H., jr., and Knox.)
- Knox, Harry A., Davenport, Iowa. Compound clutch. 1,736,267; Nov. 19.
- Knox, Harry A., Davenport, Iowa. Packing unit. 1,740,428; Dec. 17.
- Knox, Harry A., and B. F. Baker, Davenport, Iowa. Track-laying vehicle. 1,705,980; Mar. 19.
- Knox, Luther L., Bellevue, assignor to Knox Products Company, Pittsburgh, Pa. Sound-deadening top for tables, desks, counters, and the like and making the same. 1,733,806; Oct. 29.
- Knox Products Company. (See Knox, Luther L., assignor.)
- Knox, William G., Manhasset, N. Y., and A. G. Russell Red Bank, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phonograph needle. 1,733,608; Oct. 29.
- Knox, William J., New York, N. Y., assignor, by mesne assignments, to Petroleum Conversion Corporation. Method and apparatus for treating compounds preferably of a hydrocarbon nature. 1,715,239; May 28.
- Knudsen, Alfred, Aalborg, Denmark. Sound amplifier. 1,727,651; Sept. 10.
- Knudsen, Anton M., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Condenser. 1,719,298; July 2.
- Knudsen, Carl H., Brooklyn, N. Y. Flexible shaft coupling. 1,712,219; May 7.
- Knudsen, Carl H., Brooklyn, N. Y. Wrist-pin construction. 1,718,963; July 2.
- Knudsen, Carl H., Brooklyn, N. Y., assignor to The Knudsen Motor Corporation, Wilmington, Del. Fuel pump. 1,726,303; Aug. 27.
- Knudsen, Carl H., New York, N. Y. Internal-combustion engine. 1,736,287; Nov. 19.
- Knudsen, Caspar B., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Press. 1,726,155; Aug. 27.
- Knudsen, Joachim R. M. (See Yeager, Fay A., assignor.)
- Knudsen, Karsten, Chicago, Ill., assignor to Stromberg Research Corporation. Windshield wiper. 1,720,906; July 16.
- Knudsen, Knud N., Floral Park, N. Y., assignor to American Machine & Foundry Company. Cigarette-perforating device. 1,740,606; Dec. 24.
- Knudsen Motor Corporation. (See Knudsen, Carl H., assignor.)
- Knudsen, Neils M., Portland, Me. Hot-water system. 1,730,736; Oct. 8.
- Knudsen, William, Fremont, Nebr. Combined carburetor and governor. 1,709,727; Apr. 16.
- Knudson, Axel F., Mount Vernon, N. Y. Cereal-display stand. Dec. 77,842; Feb. 26.
- Knupper, Bernhard, Bochum, Germany. Oblique-seat valve. 1,720,130; July 9.
- Knuppe, Lillian E., Fairbanks, Alaska. Kitchen utensil. 1,713,876; May 21.
- Knuth, Fred C., Aurora, Ill. Stepladder. 1,714,028; May 21.
- Knutson, Harold, Chicago, Ill., assignor to Paul Dickinson, Incorporated. Ventilator. 1,728,494; Sept. 17.
- Knuuti, Charles O., and C. E. Nelson, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Material-feeding apparatus. 1,717,787; June 18.
- Kny-Scheerer Corporation of America, The. (See Galowitz, Gustave A., assignor.)
- Kny-Scheerer Corporation of America, The. (See Hollander, Edward, assignor.)
- Koabler, Frank, et al. (See Crane, Adam L., assignor.)
- Koban, Max, and U. Ercolani, New York, N. Y. Illuminated purse. 1,739,316; Dec. 10.
- Kobash, Louis, Mapleshaed, N. J. Air-supply-regulating valve. 1,732,897; Oct. 22.
- Kobatake, Tsunajiro, Los Angeles, Calif. Sanitary toilet-seat pad. 1,706,960; Mar. 26.
- Kobayashi, Hideo, Tokyo, Japan. Differential valve for the air brakes of cars. 1,715,764; June 4.
- Kobayashi, Hideo, Tokyo, Japan. Air-brake apparatus. 1,715,765; June 4.
- Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Sulphur-containing covering. 1,741,522; Dec. 31.
- Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Article made of fabric. 1,742,145; Dec. 31.
- Kobe, Inc. (See Coberly, Clarence J., assignor.)
- Kobel, Ernst, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Vapor vacuum pump construction. 1,734,135; Nov. 5.
- Köberle, Karl. (See Kunz, M. A., and Köberle.)
- Kobernik, Julius E., assignor to Newton Process Manufacturing Co., Fullerton, Calif. Gas, oil, and water separator. 1,705,669; Mar. 19.
- Kobert, Frank P., Springfield, Mass., assignor to Elektromatik Forging Machine Corporation, New York, N. Y. Electrical heating and forging machine. 1,718,364; June 25.
- Kobine, Alexis, London, England, assignor to Robert Boby Limited, Bury St. Edmunds, England. Hackling machine. 1,718,365; June 25.
- Kobiolke, Adolf M., Gilderoy, Australia. Preserving timber and other materials. 1,713,388; May 14.
- Kobiolke, Adolf M., Gilderoy, Australia. Destruction of insect pests. 1,725,650; Aug. 20.
- Kobori, Kihachiro, Kobe, assignor to Kanegafuchi Boseki Kabushiki Kaisha, 1612 Susinadamura, Minamikatsuchika-Gun, Tokyo-Fu, Japan. Cocoon storage by cooling and drying. 1,717,227; June 11.
- Kobseff, Joakime, Bizerta, Tunisia. Apparatus for preventing incrustation in steam boilers. 1,739,640; Dec. 17.
- Kobus, Bronislaw, Milwaukee, Wis. Lock. 1,730,662; Oct. 8.
- Koca, James F. (See Hokanson, O. A., and Koca.)
- Koca, James F., and H. C. Behrens, assignors to Woodstock Typewriter Company, Woodstock, Ill. Spotlight mounting. 1,718,421; June 25.
- Koch, Charles, Glendale, N. Y. Device for preventing formation of ice on aeroplanes. 1,716,276; June 4.
- Koch, Charles F., Buffalo, N. Y. Coupling for pipes or conduits. 1,729,483; Sept. 24.
- Koch, Charles N., Kane, Pa. Combustion turbine. 1,723,515; Aug. 6.
- Koch, Clarence B. (See Snelling, W. O., and Koch.)
- Koch, Clarence W., St. Louis, Mo. Typewriter desk. 1,712,503; May 14.
- Koch, Emil, Mulheim-Ruhr, assignor to Deutsch-Luxemburgische Bergwerks- und Hütten-Aktiengesellschaft, Dortmund, Germany. Automatic matching and doubling machine. 1,724,715; Aug. 13.



- Koch, Ernst, Dresden, assignor to Sächsische Maschinenfabrik vorm. Rich. Hartmann, Aktiengesellschaft, Chemnitz and Dresden, Germany, Cotton-drawing frame with halling head, 1,721,783; July 23.
- Koch, Felix, Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Passageway drive mechanism for articulated car units, 1,706,358; Mar. 19.
- Koch, Felix, Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Passageway member for articulated car unit, 1,709,025; Apr. 16.
- Koch, Frank H. (See McKnight, C. C., and Koch.)
- Koch, Gustav H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear wheel, 1,740,656; Dec. 24.
- Koch, Henry C., Chicago, Ill. Apparatus and process for impregnating felt and the like, 1,712,770; May 14.
- Koch, Walther. (See Bauch, R., Koch, and Völzing.)
- Koch, Walther, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Electrical distribution system, 1,707,269; Apr. 2.
- Koch, Walther, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Relay device, 1,740,465; Dec. 24.
- Koch, William C., St. Paul, Minn. Combined shipping and display case for brick samples, 1,720,959; July 16.
- Koch, William F., assignor, by mesne assignments, to Great Lakes Manufacturing Company, Detroit, Mich. Spot-lamp, 1,711,950; May 7.
- Koch, William J., Midland Park, assignor to The Fred H. Knapp Corporation, Ridgewood, N. J. Can guide, 1,735,825; Nov. 12.
- Kochendorfer, Frederic S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Indicating and regulating apparatus, 1,713,833; May 21.
- Kochendorfer, Frederick S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Molded article, 1,720,681; July 16.
- Kochendorfer, Frederic S., River Forest, and W. N. Thode, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Mold-handling mechanism, 1,722,380; July 30.
- Kochendorfer, Frederic S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Casting apparatus, 1,732,236; Oct. 22.
- Kocher, Alfred, assignor to West Bend Aluminum Company, West Bend, Wis. Detachable cover for cooking vessels, 1,693,916; Jan. 15.
- Kochi, Yoshisuke, Los Angeles, Calif. Spinning top, 1,724,665; Aug. 13.
- Kochs, Theo. A., Company. (See Juede, Walter, assignor.)
- Kochs, Theo. A., Company. (See Schwarzkopf, A. R., and Wagner, assignors.)
- Kodama, Kazuo, Petersburg, Alaska. Soap case, 1,706,788; Mar. 26.
- Kodama, Nobuyoshi H., White Plains, N. Y. Pencil sheath, 1,728,128; Sept. 10.
- Kodel Radio Corporation. (See Ogden, Clarence E., assignor.)
- Kodel Radio Corporation, The. (See Ogden, Clarence E., assignor.)
- Kodowa Refrigerator Co. (See Slager, Willem A., assignor.)
- Koeb, Emil. (See Goldsmith, B. J., and Koeb.)
- Koebel, Charles J. (See Koebel, Frank E. and C. J.)
- Koebel, Frank E., Glen Ridge, and C. J. Koebel, Weehawken, N. J. Determining the wear of diamond-pointed tools and the like, 1,739,553; Dec. 17.
- Koebler, Edward, Chicago, Ill. Back support and shoulder brace, 1,733,349; Oct. 29.
- Koehlin, Isaac, assignor to Societe Anonyme des Automobiles et Cycles Peugeot, Levallois-Perret, France. Vehicle brake, 1,732,562; Oct. 22.
- Koegel, Anthony G., Cincinnati, Ohio. Lacing for balls, 1,699,666; Jan. 22.
- Koehl, James A. (See Natzel, G. H., Jackson, and Koehl.)
- Koehler, Andrew R., Buffalo, N. Y. Machine for removing wax from plates, 1,721,224; July 16.
- Koehler, August F., assignor to Bausch & Lomb Optical Co., Rochester, N. Y. Focusing-lens mounting, 1,734,438; Nov. 5.
- Koehler, Frank B. (See Pfueger, C. T., and Koehler.)
- Koehler, Gustavus A. E. (See Rust, James E., assignor.)
- Koehler Manufacturing Company. (See Wheat, Grant, assignor.)
- Koehler, William, Cleveland, Ohio. Antifriction and anti-abrasive metal, 1,714,564; May 28.
- Koehn, Nathaniel, Oakland, Calif. Valve head for air engines, 1,733,542; Oct. 29.
- Koehring Company. (See Beckwith, Raymond A., assignor.)
- Koehring Company. (See Brey, Harold E., assignor.)
- Koehring Company. (See Frohman, Oscar, assignor.)
- Koehring Company. (See Heine, Ferdinand H., assignor.)
- Koehring Company. (See Lichtenberg, Erich H., assignor.)
- Koehring Company. (See Lichtenberg, E. H., and Brey, assignors.)
- Koehring Company. (See Menningen, Adolph C., assignor.)
- Koehring Company. (See Robb, John F., assignor.)
- Koehring Company. (See Russel, Leslie A., assignor.)
- Koehring Company. (See Smith, Arvey, assignor.)
- Koehring Company. (See Wagner, Charles H., assignor.)
- Koehring Company. (See Webb, George E., assignor.)
- Koelkebeck, Carl W. A., Pittsburgh, Pa. Lubricating device, 1,739,076; Dec. 10.
- Koelling, Edward A., assignor to Buchan Telephone Records Company, St. Louis, Mo. Telephone-directory fixture, 1,699,895; Jan. 22.
- Koeln, George R. (See Duemler, V. E., and Koeln.)
- Koen, Lew, Wilkes-Barre, Pa. Interchangeable handle, 1,731,383; Oct. 15.
- Koenig, Edward L., Chicago, Ill. Adjustable chair, 1,715,134; May 28.
- Koenig, Henry T. (See Lowe, S. P., and Koenig.)
- Koenig, Henry T., O. A. Fischer, E. F. Haffey, and A. B. Clampitt, Denver, Colo., assignors to R. H. Channing, jr., agent, San Francisco, Calif. Flotation process, 1,741,028; Dec. 24.
- Koenig, Leon C., Cudahy, assignor to Herd Duty Electric Company, Milwaukee, Wis. Pot furnace, 1,734,629; Nov. 5.
- Koenig, Lloyd R. (See Bailey, R. F., and Koenig.)
- Koenig, Remus, assignor to Metal Ware Corporation, Two Rivers, Wis. Toy electric range, 1,737,050; Nov. 26.
- Koenig, Remus, assignor to Metal Ware Corporation, Two Rivers, Wis. Toy electric engine, 1,737,051; Nov. 26.
- Koenig, Werner, assignor to Sangamo Electric Co., Springfield, Ill. Induction motor, 1,719,058; July 2.
- Koenigkramer, Frank, Cincinnati, Ohio. Head-rest apparatus, 1,717,568; June 18.
- Koepnick, Bernhardt W. (See Griebler, G. J., and Koepnick.)
- Koepp, Albert H., San Diego, Calif. Finger-nail shears, 1,727,239; Sept. 3.
- Koepsell, Alfred W., Worthington, Minn. Oil-heating device, 1,726,572; Sept. 3.
- Koerber, John C., South Orange, N. J. Toy electric railway system, 1,726,070; Sept. 3.
- Koerber, William, New York, N. Y. Automatic railroad safety gate, 1,701,266; Feb. 5.
- Koering, Eustachius W., Vineland, N. J. Towel bar, 1,721,305; July 16.
- Koering, Eustachius W., Vineland, N. J. Towel bar, 1,721,306; July 16.
- Koering, Eustachius W., Vineland, N. J. Towel bar, 1,733,970; Oct. 29.
- Koerkle, Frank D., Lancaster, Pa. Mixer, 1,734,862; Nov. 5.
- Koerner, Ewald, Dresden, Germany. Device for placing cigarettes of flat or oval cross section side by side in an oblique position, 1,720,907; July 16.
- Koerner, Ewald, Dresden, Germany, assignor to United Cigarette Machine Co. Inc., Lynchburg, Va. Cigarette machine, 1,723,942; Aug. 6.
- Koerner, George H., San Francisco, Calif. Cable connector, 1,701,812; Feb. 12.
- Koester, Henry A., and C. J. Waters, Massillon, Ohio. Multiplying graphophone, 1,719,184; July 2.
- Koester, Henry A., Norwalk, assignor of two-fifths to O. D. Miller, Massillon, Ohio. Multiplying graphophone, 1,732,756; Oct. 22.
- Koester, Oscar L., Rochester, N. Y. Fishline wringer, 1,709,436; Apr. 16.
- Ko Eune, Peter C., Philadelphia, Pa. Budget savings bank, 1,716,823; June 11.
- Kofoed, Hans C. (See Moyer, J. M., and Kofoed.)
- Kogbetliantz, Ervand, Paris, France. Three-weighted torsion balance, 1,737,660; Dec. 3.
- Kögel, Gustav, Karlsruhe, Baden, Germany. Preparing pictures from light-sensitive layers containing organic colloids, 1,724,666; Aug. 13.
- Kogelschatz, Henry C., Oklahoma City, Okla., assignor to G. A. Croft, Fairfield, Nebr. Rim tool, 1,740,099; Dec. 17.
- Kogstrom, Axel W., Upper Darby, assignor of one-half to A. F. H. Scott, Philadelphia, Pa. Air strainer, 1,701,782; Feb. 12.
- Koguro, Rokuro, Kawasaki, Kanagawa Ken, Japan. Apparatus for opening and shutting a filter press, 1,727,832; Sept. 10.
- Kohen, Herman E. (See Rodin, Harry, assignor.)
- Kohl, Albert, Pleasanton, Kans. Power-transmitting attachment for motor vehicles, 1,729,045; Sept. 24.
- Kohl, Charles A., assignor to St. Louis Butchers' Supply Co., St. Louis, Mo. Apparatus for and method of refrigeration, 1,715,607; June 4.
- Kohl, Michael, and L. Stemmeler, North Milwaukee; said Stemmeler assignor to Joseph Blinkmoeller, Milwaukee, Wis. Greasing device, 1,732,725; Oct. 22.
- Kohlberger, Charles E., New York, N. Y. Film holder, 1,717,228; June 11.
- Kohlen, Josef, Herne in Westphalia, Germany. Flushing device for rock drills, 1,736,922; Nov. 26.
- Kohlenscheidungs-Gesellschaft m. b. H. (See Fecht, Hermann, assignor.)
- Kohler, Anthony M. (See Harter, I., and Kohler.)
- Köhler, August, assignor to Firm of Carl Zeiss, Jena, Germany. Illuminating device for microscopes, 1,699,667; Jan. 22.
- Kohler Company. (See Brotz, Anton F., assignor.)
- Kohler Company. (See Brotz, Frank G., assignor.)
- Kohler Company. (See Di Cesare, Nicholas P., assignor.)
- Kohler Company. (See Witzel, Earl R., assignor.)
- Kohler, Frank C. (See Harris, W. O., and Kohler.)
- Kohler, Frederick L., Washington, D. C. Burglar alarm, 1,712,771; May 14.
- Kohler, Gustavus A. E. (See Stone, Irving I., assignor.)



- Kohler, John F., White Plains, N. Y. Nut-paring machine. 1,732,757; Oct. 22.
- Kohler, Kurt P., Crafton, Pa. Toy building construction. 1,706,696; Mar. 26.
- Köhler, Max, Limbach, Germany. Seaming machine. 1,715,369; June 4.
- Köhler, Max, Limbach, Germany. Loop-spreader mechanism for sewing machines. 1,715,370; June 4.
- Köhler, Max, Limbach, Germany. Thread-tension mechanism for sewing machines. 1,715,371; June 4.
- Köhler, Max, Limbach, Germany. Overseaming machine. 1,715,372; June 4.
- Köhler, Max, Limbach, Germany. Overseaming machine. 1,715,373; June 4.
- Köhler, Max, Limbach, Germany. Intermittent-driving mechanism. 1,719,613; July 2.
- Köhler, Otto. (See Wietzel, R., Schlecht, and Köhler.)
- Kohlhepp, John W., Chicago, Ill. Beater arm. 1,703,347; Feb. 26.
- Kohlmeier, Alfred A., Los Angeles, Calif. Machine for sharpening blades. 1,734,494; Nov. 5.
- Kohlmeier, Alfred A., Los Angeles, Calif. Blade-sharpening machine. 1,734,524; Nov. 5.
- Kohloff, Paul, Mamaroneck, N. Y., assignor of one-half to A. Caron. Advertising match package. 1,707,526; Apr. 2.
- Kohlschütter, Ernst W., Hamburg, Germany. Belting of woven fibrous material. 1,728,567; Sept. 17.
- Kohn & Company. (See Carolin, Frank J., assignor.)
- Kohn, Fred E., New York, N. Y. Shoe-buckle holder. 1,727,650; Sept. 10.
- Kohn, Jacob, New York, N. Y. Lock. 1,730,011; Oct. 1.
- Kohn, Milton M., New York, N. Y. Control for heating devices. 1,702,637; Feb. 19.
- Kohn, Oscar, Chicago, Ill., assignor to Aquatone Corporation. Intaglio offset lithographic plate and making same. 1,740,423; Dec. 17.
- Kohn, Sigmund F., Brooklyn, N. Y. Sheet-metal joint. 1,731,424; Oct. 15.
- Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Tag-price-marking machine. 1,709,354; Apr. 16.
- Kohnstamm, H., & Co. (See Phair, Robert A., assignor.)
- Kohnstamm, H., & Co. (See Phair, R. A., and Bucarla, assignors.)
- Kohorn, Oscar & Co. (See Perl, Alfred, assignor.)
- Kohout, George A., Chicago, Ill. Furnace. 1,698,135; Jan. 8.
- Kohout, George A., Chicago, Ill. Stoker furnace with inside hopper. 1,723,182; Aug. 6.
- Kohout, George A., Chicago, Ill. Furnace. 1,739,907; Dec. 17.
- Kohr, Allison A., Maplewood, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Coke treatment and product. 1,705,020; Mar. 12.
- Kohr, Elton D., York, Pa. Dispensing booth. Des. 77,490; Jan. 15.
- Kohr, Robert F., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,726,743; Sept. 3.
- Koistinen, Henry W., Erwin, S. Dak. Fanning mill and grader. 1,704,684; Mar. 5.
- Kokatnur, Vaman R. (See Stoddard, W. B., and Kokatnur.)
- Kokatnur, Vaman R., New York, N. Y. Preserving citrous-fruit juices. 1,715,932; June 4.
- Kokatnur, Vaman R., New York, N. Y., and S. G. Turnbull, assignors to Pilot Laboratory, Inc., Arlington, N. J. Process of and composition for bleaching and improving milling products. 1,722,501; July 30.
- Koken Companies. (See Carter, Lionel A., assignor.)
- Kolar, John P., Erie, Pa. Trombone. 1,729,513; Sept. 24.
- Kolb, Charles F., Chicago, Ill. Folding bed. 1,726,075; Aug. 27.
- Kolb, Charles F., Chicago, Ill. Folding bed. 1,732,476; Oct. 22.
- Kolb, Charles F., Chicago, Ill. Recess bed. 1,735,006; Nov. 12.
- Kolb, George F. (See Bullard, E. P., and Kolb.)
- Kolb, John K., Wheeling, W. Va. Fertilizer distributor. 1,737,377; Nov. 26.
- Kolb, Robert, Berlin, Germany. Device for casting metal in molds. 1,698,441; Jan. 8.
- Kolbeinson, Thomas, Great Falls, Mont. Skate. 1,716,231; June 4.
- Kolber, Benjamin, and M. Veloric, Philadelphia, Pa. Sanitary glass ice-cream measurer. 1,700,062; Jan. 22.
- Koleil, Herman F. (See Schmidt, A. A., and Koleil.)
- Kolisch, Paul. (See Aldendorff, Fritz, assignor.)
- Kolla, John P., assignor to Holland Furnace Company, Holland, Mich. Radiator for warm-air furnaces. 1,733,153; Oct. 29.
- Kollath, Francis C., Chicago, Ill. Lamp and guard handle. 1,700,187; Jan. 29.
- Koller, John, Johnstown, N. Y. Forming a slipper. 1,731,536; Oct. 15.
- Koller, Karl, Budapest, Hungary. Making producer gas from coking coals. 1,697,920; Jan. 8.
- Koller, Karl, Budapest, Hungary. Pressure gas producer. 1,728,684; Sept. 17.
- Koller, Lewis R., Schenectady, N. Y., assignor to General Electric Company. Light measurement. 1,725,651; Aug. 20.
- Koller, Otto R., Pomeroy, Wash. Weeder attachment for harrows. 1,720,490; July 9.
- Kolliner-Newman Manufacturing Company. (See Kerr, Roy H., assignor.)
- Kollman, August J., New York, N. Y. Alarm mechanism for clocks. 1,730,276; Oct. 1.
- Kollman, Charles F., Kendallville, Ind., assignor to Specialty Display Case Company. Merchandise-display case. 1,718,926; June 25.
- Kollman, William F., Westgate, Iowa. Seed container and dispenser. 1,739,599; Dec. 17.
- Kollmar, Emil, Pforzheim, Baden, Germany, assignor to General Plate Company, Attleboro, Mass. Plated wire and manufacturing same. 1,703,940; Mar. 5.
- Kollock, George L., Seattle, Wash. Hammer. 1,712,456; May 7.
- Kollsman, Paul, Woodhaven, N. Y. Indicator. 1,741,702; Dec. 31.
- Kollstede, Alfred G. (See Ruprecht, L., and Kollstede.)
- Kolody, Andrew, Chicago, Ill. Braking device for aeroplanes. 1,716,644; June 11.
- Kolozsy, Louis, New York, N. Y. Wind-power mechanism. 1,712,149; May 7.
- Kolpien, Kenneth H. (See Parker, F. H., and Kolpien.)
- Kolstad, Erland Y., Minneapolis, Minn. Drainpipe flushers. 1,714,789; May 28.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Signal-receiving circuits. 1,707,440; Apr. 2.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Signal-receiving circuits. 1,708,182; Apr. 9.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Sound reproducer. 1,712,920; May 14.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radio receiving system. 1,716,352; June 4.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Bearing-coil housing. 1,722,051; July 23.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radio compass compensator. 1,725,147; Aug. 20.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Bearing-coil housing. 1,727,608; Sept. 10.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Radio apparatus. 1,730,577; Oct. 8.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Signaling system. 1,737,089; Nov. 26.
- Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Vacuum-tube system. 1,738,495; Dec. 3.
- Kolster, Frederick A., San Jose, assignor to Federal Telegraph Company, San Francisco, Calif. Selector and receiver for radio frequency energy. 1,717,455; June 18.
- Kolster, Frederick A., San Jose, assignor to Federal Telegraph Company, San Francisco, Calif. Radio apparatus. 1,726,705; Sept. 3.
- Kolts, John H., Crafton, Pa., assignor to Pittsburgh Water Heater Company. Thermostatic valve mechanism. 1,708,508; Apr. 9.
- Komarcsevičs, George, Detroit, Mich. Keyhole guard. 1,728,065; Sept. 10.
- Komarek-Greaves and Company. (See Komarek, Gustav, assignor.)
- Komarek, Gustav, assignor to Komarek-Greaves and Company, Chicago, Ill. Fluxer. 1,740,657; Dec. 24.
- Komusin, née Liedtke, Helene, Berlin, Germany. Rolling stamp with counting mechanism for printing purposes of any kind. 1,738,373; Dec. 3.
- Koncana, Frank E., and C. H. Schaefer, Cleveland, Ohio. Reel. 1,736,604; Nov. 19.
- Kondakjian, Daniel, Newark, N. J. Glass-working machine. 1,720,908; July 16.
- Kondakjian, Daniel, Newark, N. J. Electric spot-welding machine. 1,728,616; Sept. 17.
- Kondo, Rennosuke, Tokyo, Japan. Device for prevention of detonation in internal-combustion engines. 1,719,705; July 2.
- Kondo, Roku, Lyndhurst, N. J., assignor to Taiyo Trading Co., Inc. Flexible glass. 1,729,273; Sept. 24.
- Kondolf, Henry E., New York, N. Y. Folding blank box. 1,703,042; Feb. 19.
- Kondolf, Henry E., Brooklyn, N. Y. Paper package and display cover therefor. 1,741,369; Dec. 31.
- Kondolf, Mathias R., Cynwyd, Pa. Pileproof box. 1,725,527; Aug. 20.
- Kondolf, Mathias R., Cynwyd, assignor to Boxboard Products Company, Philadelphia, Pa. Knockdown box. 1,725,524; Aug. 20.
- Kondolf, Mathias R., Cynwyd, assignor to Boxboard Products Company, Philadelphia, Pa. Receptacle and making the same. 1,725,525; Aug. 20.
- Kondolf, Mathias R., Cynwyd, assignor to Boxboard Products Company, Philadelphia, Pa. Container and closure therefor. 1,725,526; Aug. 20.
- Kondolph, Mathias R., assignor to Boxboard Products Company, Philadelphia, Pa. Receptacle and making the same. 1,700,937; Feb. 5.
- Konefes, Joseph H., Chicago, Ill. Mail box. 1,713,702; May 21.
- Kones, Jennie, Castlewood, S. Dak. Pie pan. 1,716,556; June 11.



- Konheim, Harvey, New York, N. Y. Reproducing electrical oscillations and apparatus therefor. 1,698,269; Jan. 8.
- König, Albert, assignor to the firm Carl Zeiss, Jena, Germany. Tacheometric telescope. 1,715,845; June 4.
- König, Alfred, and G. Müller, assignors to the firm Staatliche Prozelan Manufaktur, Berlin, Germany. Filtering apparatus. 1,704,330; Mar. 5.
- Konikoff, Harry R. (See Konikoff, Maurice A. and H. R.)
- Konikoff, Harry R., and G. Rabinowitz, assignors to Venus Lamp Corporation, New York, N. Y. Display stand. Des. 78,823; June 25.
- Konikoff, Maurice A. and Harry R., New York, N. Y. Display device. 1,736,121; Nov. 19.
- Konipol, Benjamin, New York, N. Y. Liquid-dispensing apparatus. 1,728,939; Sept. 24.
- Konkle, Walter R. (See Biewend, E. C., and Konkle.)
- Konoff, Alexander. (See Marcus, S., and Konoff.)
- Konoff, Alexander, New York, N. Y., assignor to Voices Incorporated, Wilmington, Del. Voice device. 1,711,117; Apr. 30.
- Konoff, Alexander, assignor to Markon Manufacturing Co. Inc., New York, N. Y. Eye set. 1,726,184; Aug. 27.
- Konoff, Alexander, assignor to Markon Manufacturing Co. Inc., New York, N. Y. Rolling eye for dolls. 1,727,508; Sept. 10.
- Konold, Christian, Verona, Pa., assignor to Creepcheck Company, Inc., New York, N. Y. Rail anchor. 1,739,004; Dec. 10.
- Konop, John S., Flushing, N. Y. Table top. 1,710,361; Apr. 23.
- Konrad, Rudolf, Berlin-Steglitz, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Production of azo dyestuffs on weighted silk and resulting product. 1,723,183; Aug. 6.
- Konter, Michael, Alma, Wis. Distillation apparatus. 1,725,528; Aug. 20.
- Kontol Company, The. (See Fischer, C., Jr., and Reddish, assignors.)
- Konzelman, Matthew, Peru, Ill. Wrench. 1,709,794; Apr. 16.
- Koistra, John A., assignor to Whitin Machine Works, Whitinsville, Mass. Roving traverse mechanism for spinning frames. 1,737,592; Dec. 3.
- Kook, Otto, Magdeburg, Germany. Current regulator. 1,715,458; June 4.
- Koon, Arthur W., Schriever, La. Apparatus for drying hay, grain, and the like. 1,733,022; Oct. 22.
- Koons, William M., Wichita, Kans. Window screen. 1,729,348; Sept. 24.
- Koontz, Jesse E., Charleston, S. C. Gasket cutter. 1,719,663; July 2.
- Koonz, Frederick W., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Spoon or similar article. Des. 78,824; June 25.
- Kooperstein, Louis, New York, assignor to West Disinfecting Company, Long Island City, N. Y. Soap-dispensing apparatus. 1,699,364; Jan. 15.
- Kooperstein, Louis, New York, assignor to West Disinfecting Company, Long Island City, N. Y. Drip-disinfecting apparatus. 1,734,584; Nov. 5.
- Kooperstein, Louis, Astoria, assignor to West Disinfecting Company, Long Island City, N. Y. Liquid-soap-dispensing device. 1,735,465; Nov. 12.
- Koopman, Charles, Pine, Ore. Draper. 1,723,357; Aug. 7.
- Koopmans, Lambert C., Chicago, assignor to E. P. Smith, Springfield, Ill. Retaining valve anchor. 1,722,755; July 30.
- Kopecky, Anton, Chicago, Ill. Miter box. 1,704,747; Mar. 12.
- Kopf, Melrose G. (See Cunningham, John J., assignor.)
- Kopf, Theodor, Rastatt, assignor to the firm Waggon-fabrik Aktiengesellschaft, Rastatt, Baden, Germany. Railway car. 1,700,898; Feb. 5.
- Koplin, Clifford M., Camas, Wash. Oil-atomizing device. 1,702,784; Feb. 19.
- Kopp Glass, Incorporated. (See Kopp, Nicholas, assignor.)
- Kopp, Nicholas, Pittsburgh, Pa. Goblet or similar article. Des. 78,765; June 18.
- Kopp, Nicholas, Pittsburgh, Pa. Sherbet glass or similar article. Des. 78,766; June 18.
- Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass Incorporated, Swissvale, Pa. Glass vase or similar article. Des. 77,556; Jan. 22.
- Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass, Incorporated, Swissvale, Pa. Lamp standard. Des. 77,966; Mar. 12.
- Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass, Incorporated, Swissvale, Pa. Lens. Des. 78,031; Mar. 19.
- Kopp, Nicholas, assignor to Kopp Glass, Incorporated, Swissvale, Pa. Globe for illuminating fixtures. Des. 78,632; May 28.
- Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass, Incorporated, Swissvale, Pa. Illuminating glass bowl or similar article. Des. 79,723; Oct. 29.
- Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass, Incorporated, Swissvale, Pa. Lighting fixture bowl or similar article. Des. 79,724; Oct. 29.
- Kopp Wilhelm, Walsrode, Germany. Auxiliary device for the production of the hollow crowns of teeth from cast metal. 1,704,006; Mar. 5.
- Koppe, Alexander T., assignor to Directoplate Corporation, Chicago, Ill. Vacuum-pressure printing frame. 1,702,232; Feb. 12.
- Koppe, Alexander T., assignor to Directoplate Corporation, Chicago, Ill. Proof press. 1,715,712; June 4.
- Köppe, Max, Dresden-Grüna, Germany. Machine for turning in edges of high-grade leather goods. 1,717,929; June 18.
- Koppel Industrial Car and Equipment Company. (See Anderson, John P., assignor.)
- Koppel Industrial Car & Equipment Company. (See Burner, William L., assignor.)
- Koppel Industrial Car and Equipment Company. (See Schmohl, Alfred C., assignor.)
- Koppelman, Morris, Brooklyn, N. Y. Manufacture of non-planiform sheets of fibrous material. 1,719,819; July 2.
- Koppers Company, The. (See Becker, Joseph, assignor.)
- Koppers Company, The. (See Bird, Eugene H., assignor.)
- Koppers Company, The. (See Bruun, George T., assignor.)
- Koppers Company, The. (See Collins, C. B., and Lovett, assignors.)
- Koppers Company, The. (See Gollmar, Herbert A., assignor.)
- Koppers Company, The. (See Hill, W. H., and Jacobson, assignors.)
- Koppers Company, The. (See Jacobson, David L., assignor.)
- Koppers Company, The. (See Klaiber, Walter J., assignor.)
- Koppers Company, The. (See Kohr, Allison A., assignor.)
- Koppers Company, The. (See Logan, Lloyd, assignor.)
- Koppers Company, The. (See MacArthur, Angus, assignor.)
- Koppers Company, The. (See Morgen, R. A., Yard, and Rosenstein, assignors.)
- Koppers Company, The. (See Parry, Nathaniel G., assignor.)
- Koppers Company, The. (See Puening, Franz, assignor.)
- Koppers Company, The. (See Putsch, August, assignor.)
- Koppers Company, The. (See Ramsburg, Charles J., assignor.)
- Koppers Company, The. (See Sell, Gilbert E., assignor.)
- Koppers Company, The. (See Sperr, Frederick W., Jr., assignor.)
- Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
- Koppers Company, The. (See Van Ackeren, J., and Thompson, assignors.)
- Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
- Koppers, Heinrich, Essen-Ruhr, Germany. Process and apparatus for distilling solid carbonaceous material. 1,712,082; May 7.
- Koppers, Heinrich, Essen-Ruhr, Germany. Apparatus for distilling bituminous substances. 1,712,083; May 7.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Retort oven. 1,707,734; Apr. 2.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Heating substance susceptible to oxidation. 1,713,834; May 21.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Pitch-coking process. 1,715,240; May 28.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Gas retort. 1,716,643; June 11.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation. Illuminating-gas and water-gas apparatus. 1,723,279; Aug. 6.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to the Koppers Development Corporation, Pittsburgh, Pa. Coke and gas apparatus and process. 1,723,280; Aug. 6.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Gas retort. 1,725,148; Aug. 20.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Gas retort. 1,725,149; Aug. 20.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation, Pittsburgh, Pa. Coking process. 1,733,307; Oct. 29.
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to Koppers Development Corporation, Pittsburgh, Pa. Zinc-reduction apparatus and process. 1,733,500; Oct. 29.
- Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Plunger-type disconnecting switch. 1,697,769; Jan. 1.
- Koppitz, Carl G., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Overload-actuated device. 1,714,675; May 28.
- Koppl, Ernest, Long Beach, Calif. Sampling earth formations. 1,711,797; May 7.
- Koppl, Ernest, Long Beach, Calif. Expansible work-engaging tool. 1,732,563; Oct. 22.
- Koppl, Ernest, Long Beach, Calif. Inclination indicator. 1,738,589; Dec. 10.
- Kopple, Morris D., et al. (See Klahn, Edwin, assignor.)
- Kopple, Morris D., et al. (See Lapkin, John D., assignor.)
- Kopple, Morris D., New York, N. Y. Folding box. 1,727,435; Sept. 10.
- Kops Bros. Inc. (See Duff, Ewen C., assignor.)
- Kops Bros. Inc. (See Kops, Waldemar, assignor.)
- Kops, Waldemar, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,707,020; Mar. 26.



- Kops, Waldemar, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,707,810; Apr. 2.
- Kops, Waldemar, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,708,699; Apr. 9.
- Kops, Waldemar, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,720,482; July 9.
- Kops, Waldemar, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,721,274; July 16.
- Kops, Waldemar, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,729,426; Sept. 24.
- Koran, George J., Kansas City, Kans. Radio speaker baffle unit or similar article. Des. 79,722; Oct. 29.
- Korchmar, Max, Cincinnati, Ohio. Brief or similar case. 1,702,905; Feb. 19.
- Kordick, Frank, assignor to The Regal Musical Instrument Co., Chicago, Ill. Device for tuning stringed instruments. 1,697,508; Jan. 1.
- Korect Air Meter Corporation. (See Hallstead, Leon A., assignor.)
- Korect Air Meter Corporation. (See Rochester, Thomas F., assignor.)
- Koref, Fritz. (See Jacoby, R., and Koref.)
- Korgman, Joseph, Plain, Wis. Repair stand. 1,697,921; Jan. 8.
- Koritz, Amos C., Thawville, Ill. Wheeled cultivator. 1,701,572; Feb. 12.
- Korkames, Joe, Temple, Tex. Tray. 1,705,867; Mar. 19.
- Korn, Hugo, Elbing, Germany. System for simultaneously regulating prime movers and generators. 1,697,568; Jan. 1.
- Korn, Willi, Berlin-Friedenau, Germany. Permutating device for use in coding machines. 1,705,641; Mar. 19.
- Korn, Willi, Berlin-Friedenau, Germany. Device for coding and decoding. 1,733,886; Oct. 29.
- Kornan, Paul, Chicago, Ill. Lamp. Des. 78,578; May 21.
- Kornblum, Morris, Brooklyn, N. Y., assignor to Metal Lamp Corporation. Lamp. Des. 79,558; Oct. 8.
- Kornblum, Morris, Brooklyn, N. Y., assignor to Metal Lamp Corporation. Lamp. Des. 79,726; Oct. 29.
- Kornblum, Morris, Brooklyn, N. Y., assignor to Metal Lamp Corporation. Lamp. Des. 79,727; Oct. 29.
- Kornblum, Morris, Brooklyn, N. Y., assignor to Metal Lamp Corporation. Lamp. Des. 80,126; Dec. 17.
- Korndorfer, Caspar J., Allendale, N. J., and L. T. Hand, Brooklyn, N. Y. Telegraphic recording instrument. 1,718,742; June 25.
- Korndorfer, Caspar J., Allendale, N. J., and L. T. Hand, Brooklyn, N. Y. Paper-supply means for recording instruments. 1,718,743; June 25.
- Korneff, Basil, assignor to Société Nord Africaine d'Etudes & d'Entreprise (Société Anonyme Française), Paris, France. System for the automatic irrigation of the soil. 1,710,362; Apr. 23.
- Korngiebel, Gustav, Cassel, Germany. Draft regulator for flues or chimneys. 1,708,310; Apr. 9.
- Kornreich, Harry, New York, N. Y. Making sausage rolls. 1,738,301; Dec. 3.
- Kornsweet, Samuel A., Los Angeles, Calif. Game apparatus. 1,708,101; Apr. 9.
- Kornsweet, Samuel A., Los Angeles, Calif. Combination cigarette and match box. 1,726,843; Sept. 3.
- Kornsweet, Samuel A., Venice, Calif. Bathing-beach float. 1,720,081; July 9.
- Kornsweet, Samuel A., Venice, Calif. Cigarette-package opener and closure. 1,725,869; Aug. 27.
- Koro Corporation. (See Kotchi, Charles J., assignor.)
- Koronski, André, now, by judicial change of name, A. King, Narberth, Pa. Liquid-level indicator. 1,727,545; Sept. 10.
- Koropczyk, Anton, Natrona, Pa. Flush-tank valve. 1,718,744; June 25.
- Koroschetz, John, Chicago, Ill. Car seal. 1,712,565; May 14.
- Korrecolite Company. (See Oliver, Eben F., assignor.)
- Korrol, Irving L., Brooklyn, assignor of one-half to D. J. Maibrunn, New York, N. Y. Container top. 1,722,636; July 30.
- Korsunsky, Michael G., now, by judicial change of name, M. G. Corson, Jackson Heights, N. Y., assignor to Electro Metallurgical Company. Alloy for electrical conductors. 1,723,867; Aug. 6.
- Kortebein, Fritz, Detroit, Mich. Antitheft container. 1,732,939; Oct. 22.
- Kortenbach, August, jr., Weyer, Germany. Umbrella device. 1,735,285; Nov. 12.
- Korthäuer, Theodor, Berlin-Spandau, assignor to C. Lorenz Aktiengesellschaft, Lorenzweg, Berlin-Tempelhof, Germany. Automatic telephone system. 1,737,423; Nov. 26.
- Kortright, Harry M. (See Johnson, O. B., and Kortright.)
- Kortz, Anthony T., Grand Rapids, Mich. Furniture fixture. 1,736,406; Nov. 19.
- Korukin, Peter N. (See Boldireff, W. E., and Korukin.)
- Korvin-Kroukovsky, Boris V., New York, N. Y., assignor to Edo Aircraft Corporation, College Point, Long Island, N. Y. Seaplane float. 1,726,439; Aug. 27.
- Kosanek, Ernest, Yonkers, N. Y. Electric vaporizing attachment. 1,731,671; Oct. 15.
- Koscherak Siphon Bottle Works. (See Waltz, Anton F., assignor.)
- Kosek, Joseph H., assignor to D. W. Dorrance, Minneapolis, Minn. Artificial limb. 1,725,588; Aug. 20.
- Kosel, Heinrich. (See Thoma, H., and Kosel.)
- Kosian, Gustave C., assignor to Rockford Malleable Iron Works, Rockford, Ill. Sand-blast apparatus. 1,715,711; June 4.
- Kositchek, Leo S., assignor to Columbia Fastener Company, Chicago, Ill. Jacket for mucilage bottles. Des. 78,468; May 7.
- Kositchek, Leo S., assignor to Columbia Fastener Company, Chicago, Ill. Closure for mucilage receptacles. 1,723,516; Aug. 6.
- Kosken, Wilho A., assignor to Steadylite Motion Picture Machine Corporation, New York, N. Y. Motion-picture apparatus. 1,713,663; May 21.
- Kosken, Wilho A., assignor to Steadylite Motion Picture Machine Corporation, New York, N. Y. Fire shutter for motion-picture machines. 1,719,377; July 2.
- Kosken, Wilho A., Brooklyn, assignor to Steadylite Motion Picture Machine Corporation, New York, N. Y. Adjusting mechanism for light deflectors. 1,717,044; June 11.
- Koskinen, Onni S., Detroit, Mich. Mechanism for making blanking dies and the like. 1,728,796; Sept. 17.
- Kosmopolus, Alexander, Chicago, and C. Evensen, River Grove, Ill. Gas stove. 1,700,938; Feb. 5.
- Kosofsky, Morris, assignor to Kenilworth Manufacturing Co., Inc., New York, N. Y. Garment. 1,709,177; Apr. 16.
- Koss, Charles R., Milwaukee, assignor to The Badger Rubber Works, Cudahy, Wis. Display cabinet. 1,714,960; May 28.
- Kossey, Alexander, Mont Clare, Pa. Brake release for automobiles. 1,716,824; June 11.
- Kossuth, Anneliese. (See Müller-Cunradi, M., and Kossuth.)
- Kosten, Johannes, Walker Township, Kent County, assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. 1,722,583; July 30.
- Kostenbader, Gideon B., Reading, Pa. Hand holder for a blotter. Des. 79,089; July 30.
- Koster, Charles, New York, N. Y. Building block and wall construction. 1,714,676; May 28.
- Kostko, Jaroslav, K., Ferguson, Mo. Synchronous motor. 1,697,362; Jan. 1.
- Kostko, Jaroslav K., Ferguson, Mo. Brush holder for revolving brushes. 1,707,403; Apr. 2.
- Kostko, Jaroslav K., University City, Mo. Synchronous motor and operating same. 1,730,218; Oct. 1.
- Kotchi, Charles J., assignor to Koro Corporation, Chicago, Ill. Wire recessing, filing, and straightening machine. 1,702,304; Feb. 19.
- Kotbra, Frank, assignor to J. F. Meyer, Chicago, Ill. Amusement target cabinet. Des. 79,469; Sept. 24.
- Kottman, Alfred D., Ocean Beach, Calif. Foldable comb. 1,727,069; Sept. 3.
- Kouba, Ludwig, Pilsen, assignor to Aktiengesellschaft vormals Skodawerke in Pilsen, Prague, Czechoslovakia. Electric conductor for electric machines and apparatus. 1,741,420; Dec. 31.
- Kough, John C., jr., Midland Park, assignor of one-half to C. S. Chapman, Ridgewood, N. J. Polishing cloth. 1,707,485; Apr. 2.
- Koulsh, Meyer Co. (See Beaujard, George, jr., assignor.)
- Kountzman, Joseph M. (See Fleischli, J. A., and Kountzman.)
- Koupal, Walter G., Tarentum, Pa., and J. S. Gregorius, Mount Vernon, Ohio, assignors to Pittsburgh Plate Glass Company. Regulating glass temperatures in drawing tanks. 1,698,369; Jan. 8.
- Koupal, Walter G., Tarentum, and J. H. Redshaw, Homestead, Pa., assignors to Pittsburgh Plate Glass Company. Apparatus for handling glass sheets. 1,741,026; Dec. 24.
- Koutnik, Sylvester M. (See Roushar, J. C., Koutnik, and Blackburn.)
- Kovacs, Louis, Troop, Pa. Synchronizing means for moving picture and talking machines. 1,729,427; Sept. 24.
- Kovacs, Theodor, Berlin-Wilmersdorf, Germany. Fountain pen. 1,706,616; Mar. 26.
- Kovar, Frank T., Cleveland, Ohio. Fuse block. 1,714,790; May 28.
- Kovnat, Maurice B., Chicago, Ill. Mailing piece. 1,725,007; Aug. 20.
- Kownacki, Joseph, South Saginaw, Mich. Vegetable knife. 1,713,440; May 14.
- Kozeluh, Jaroslav, Prague-Smichow, Czechoslovakia. Apparatus for heating liquids in tanks. 1,735,169; Nov. 12.
- Kozisek, Jaroslav, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric and Manufacturing Company, New York, N. Y. Alternating-current commutating machine. 1,731,425; Oct. 15.
- Kozma, Louis G., New York, N. Y. Paper-hanger's tool. 1,715,038; May 28.
- Kraber, Frank J., Cleveland, Ohio, assignor to Kraberhall, Inc., Philadelphia, Pa. Nut lock. 1,740,308; Dec. 17.
- Kraberhall, Inc. (See Kraber, Frank J., assignor.)
- Kracke, Lee E., Wilber, Neb. Churn and ice-cream-freezer attachment. 1,697,656; Jan. 1.
- Kneft, Paul F., Woodcliff, N. J. Combination washer and sterilizer. 1,717,229; June 11.
- Kraemer, August F., assignor of one-half to Louis Stern Company, Providence, R. I., and one-half to Hipp. Didsheim Co., Inc., New York, N. Y. Wrist-watch-strap attaching means. 1,704,859; Mar. 12.
- Kraemer, August F., assignor to Louis Stern Company, Providence, R. I. Band fastener. 1,712,566; May 14.



- Kraemer, August F., assignor to Louis Stern Company, Providence, R. I. Separable buckle. 1,712,734; May 14.
- Kraemer, August F., assignor to Louis Stern Company, Providence, R. I. Buckle. 1,712,735; May 14.
- Kraemer, August F., assignor to Louis Stern Company, Providence, R. I. Extension device for bracelets. 1,723,625; Aug. 6.
- Kraemer, August F., assignor to Louis Stern Company, Providence, R. I. Foldable extension device. 1,741,421; Dec. 31.
- Kraemer, Frank, Los Angeles, Calif., assignor to W. H. Gestring. Pilot check. 1,716,359; June 4.
- Kraemer, George E., Cincinnati, Ohio. Electric-current-control switch. 1,705,125; Mar. 12.
- Kraemer, Peter J., Regina, Saskatchewan, Canada. Binder. 1,737,853; Dec. 3.
- Kraeuter, Arthur A., South Orange, N. J. Golf-club head. Des. 78,522; May 14.
- Kraeuter, Arthur A., South Orange, assignor to The Kroydon Company, Newark, N. J. Handle grip and making the same. 1,701,856; Feb. 12.
- Kraft, Gustav F., Kansas City, Mo. Combination salt and pepper shaker. 1,724,028; Aug. 13.
- Kraft, Gustav F., Kansas City, Mo. Individual combination salt and pepper shaker. 1,739,363; Dec. 10.
- Kraft, Harry, Detroit, Mich. Mattress. 1,703,587; Feb. 26.
- Kraft, Henry P., deceased, Ridgewood, N. J.; E. J. Phillips and E. A. Darr, executors, assignors to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Combined dust cap and valve cap. 1,698,503; Jan. 8.
- Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-testing machine. 1,701,464; Feb. 5.
- Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method of and apparatus for constructing inner tubes for tires. 1,724,354; Aug. 13.
- Kraft, Lucas, and L. Mayr, Elizabeth, N. J. Electric control system. 1,734,257; Nov. 5.
- Kraft, Lucas, and L. Mayr, Elizabeth, N. J. Gas-control valve. 1,734,258; Nov. 5.
- Kraft, Selmer A. (See Erickson, G. E., and Kraft.)
- Kraft, Stephan, Vienna, Austria. Portfolio. 1,734,863; Nov. 5.
- Krag, Harry W., assignor to American Shoe Machinery and Tool Company, St. Louis, Mo. Cutting machine. 1,741,780; Dec. 31.
- Krägeloh, Franz. (See Müller, C., and Krägeloh.)
- Kragh, Carl. (See Levy, C. C., and Kragh.)
- Krah, Adolf. (See Neuhaus, Karl, assignor.)
- Krakauer, Philip, Brooklyn, N. Y. Spring-cushion structure. 1,697,819; Jan. 1.
- Kralicek, Josef. (See Szöke, Stefan, assignor.)
- Kraljevič, Steve, Kaihoke, Bay of Islands, New Zealand. Lubrication of internal-combustion engines. 1,702,348; Feb. 19.
- Kramer, Andrew A., Kansas City, Mo. Tank vehicle. 1,727,207; Sept. 3.
- Kramer, Andrew A., Kansas City, Mo. Cushion mounting for truck tanks. 1,727,609; Sept. 10.
- Kramer, Andrew A., Kansas City, Mo. Trough. 1,727,610; Sept. 10.
- Kramer, Arthur G. (See Von Pein, E. J., and Kramer.)
- Kramer, Erwin. (See Podszus, E., and Kramer.)
- Kramer, Francis W., Chicago, Ill. Display stand. 1,726,990; Sept. 3.
- Kramer, Frank G., Upper Darby, Pa. Apparatus for elevating liquids. 1,739,511; Dec. 17.
- Kramer, Gustav A., Concord, Calif., assignor, by mesne assignments, to Frigidaire Corporation. Room-cooling apparatus. 1,706,852; Mar. 26.
- Kramer, Henry A., Detroit, Mich. Fishhook disgorgers. 1,728,864; Sept. 17.
- Kramer, Henry W., Kingston, assignor to R. P. Young, Marlboro, N. Y. Handle for wooden baskets. 1,705,255; Mar. 12.
- Kramer, Herman H., Brighton, Colo. Collar stiffener. 1,733,738; Oct. 29.
- Kramer, Irving, Far Rockaway, assignor to Rego-Heat Corporation, New York, N. Y. Automatic control means for oil burners. 1,726,520; Aug. 27.
- Kramer, Isidore, New York, N. Y. Button. 1,700,169; Jan. 29.
- Kramer, Julius. (See Lowery, L. H., and Kramer.)
- Kramer, Nathan, assignor to Trenton Auto Radiator Works, Inc., Trenton, N. J. Radiator cap and plug. 1,710,363; Apr. 23.
- Kramer, Nathan, Trenton, N. J., assignor, by mesne assignments, to Bundy Tubing Company, Detroit, Mich. Radiator tube and making the same. 1,734,186; Nov. 5.
- Kramer, Oskar. (See Meiser, W., Schubardt, and Kramer.)
- Kramer, Samuel, Newark, N. J. Armored bag. 1,706,387; Mar. 19.
- Kramer, Solomon. (See Hellvik, Rasmus R., assignor.)
- Kraner, Hobart M., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Salt glazing in colors. 1,728,766; Sept. 17.
- Krank, Alfred J., deceased, by W. A. Krank, executor, St. Paul, Minn. Bottle. Des. 79,336; Sept. 3.
- Krank, Walter A. (See Krank, Alfred J.)
- Krannert, Victor L., Urbana, Ill. Luggage case. 1,712,772; May 14.
- Krans, John, Conneaut, Ohio. Steel-worker's safety device and glasses. 1,719,706; July 2.
- Krantz, Hubert, Aachen, Germany. Tenting and drying machines for textile fabrics. Re17,269; Apr. 16.
- Krantz, Hubert J. M. C., Aachen, Germany. Centrifugal machine. 1,723,940; Aug. 6.
- Krantz, Hubert J. M. C., Aachen, Germany. Control mechanism for centrifugal machines. 1,735,204; Nov. 12.
- Krantz, Hubert J. M. C., Aachen, Germany. Safety device for centrifugal machines. 1,736,975; Nov. 26.
- Krantz, Hubert K. (See Baxter, H. G., and Krantz.)
- Krantz, Hubert K., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-starting switch. 1,726,233; Aug. 27.
- Krantz, Hubert K., Rockville Center, and H. G. Baxter, Baldwin, N. Y., assignors to Westinghouse Electric and Manufacturing Company. Panel-trim clamp. 1,729,879; Oct. 1.
- Krantz, Hubert K., Rockville Center, and H. G. Baxter, Baldwin, N. Y., assignors to Westinghouse Electric and Manufacturing Company. Fuse panel. 1,729,880; Oct. 1.
- Krantz, Hubert K., Long Island, N. Y. Fuse-switch panel. 1,739,036; Dec. 10.
- Krantz, Maurice, London, England. Bag or receptacle for storing and preserving furs, articles of wearing apparel, or the like. 1,709,795; Apr. 16.
- Kranz, Curtis G. (See Gollnick, P. A., Toolan, and Kranz.)
- Kranz, Frederick H., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Manufacture of hydroxybenzaldehydes. 1,715,417; June 4.
- Kranz, Frederick W., Geneva, Ill., assignor to B. Cumming, trustee. Method and apparatus for elimination of static disturbances. 1,728,617; Sept. 17.
- Kranz, Harry W., assignor to The Hydraulic Steel Company, Cleveland, Ohio. Cushion-tire base. 1,702,386; Feb. 19.
- Kranz, Hermann E., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Controlling system. 1,734,732; Nov. 5.
- Kränzlein, Georg, H. Vollmann, H. Greune, and A. Wolfram, Höchst-on-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Benzantrones substituted in the bz nucleus and preparing the same. 1,705,868; Mar. 19.
- Kränzlein, Georg, and R. Ebert, Höchst-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Vat dyestuffs of the anthracene series and making same. 1,709,985; Apr. 23.
- Kränzlein, Georg, and M. Corell, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dihydro-p-thioazines of the anthraquinone series and making same. 1,709,986; Apr. 23.
- Kränzlein, Georg, and M. Corell, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Condensation products of the anthraquinone series and making same. 1,710,992; Apr. 30.
- Kränzlein, Georg, and M. Corell, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Condensation product of the benzantrone series and preparing same. 1,714,677; May 28.
- Kränzlein, Georg, H. Vollmann, and K. Wilke, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Alpha-anthraquinonyl ketones and preparing same. 1,725,927; Aug. 27.
- Kränzlein, Georg, A. Voss, and F. Brunträger, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Water-soluble mineral tanning agent. 1,727,719; Sept. 10.
- Kränzlein, Georg, and R. Sedlmayr, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Condensation product of the anthraquinone series and making same. 1,736,084; Nov. 19.
- Kränzlein, Georg, and H. Vollmann, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Benzantrone carboxylic acids and preparing them. 1,740,771; Dec. 24.
- Krape, Rudolph D., Schenectady, and W. S. H. Hamilton, Larchmont, N. Y., assignors to General Electric Company. Electric braking. 1,706,173; Mar. 19.
- Krasa, Albert, Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Cutting attachment for sewing machines. 1,738,186; Dec. 3.
- Krasberg, Rudolf, Chicago, Ill. Ventilating-sash fastener. 1,735,081; Nov. 12.
- Krase, Herbert J. (See Hetherington, H. C., and Krase.)
- Krascheninnikoff, John, Astoria, N. Y. Fencing implement. 1,739,795; Dec. 17.
- Krasnikov, Nicolai P., Moscow, Russia. Process and slot member for manufacturing glass sheets. 1,741,523; Dec. 31.
- Krasnoff, Bernard, Brooklyn, N. Y. Artificial denture. 1,732,898; Oct. 22.
- Krasnoff, Bernard, Brooklyn, N. Y. Artificial denture. 1,732,899; Oct. 22.
- Kratz, Edouard M., assignor to Marsene Products Co., Chicago, Ill. Forming gelatin sheets and surfaces therefor. 1,727,611; Sept. 10.
- Kratz, John A., Baltimore, Md. Baking pan. 1,714,379; May 21.
- Kratzer, Herbert J., St. Louis, Mo. Sterilizing substances. 1,711,097; Apr. 30.
- Krauch, Emil. (See Nawiasky, P. and Krauch.)
- Krapner, Bohumil, Roudnice, Czechoslovakia. Pressing iron. 1,740,658; Dec. 24.



- Kraus, Charles A., and C. C. Callis, Worcester, Mass., assignors to Standard Oil Development Company. Preparing metallo-organic compounds. 1,697,245; Jan. 1.
- Kraus, Charles E., Brooklyn, N. Y., assignor to Sialco, Incorporated. Heat insulation. 1,741,574; Dec. 31.
- Kraus, Edward V., New Brunswick, N. J. Display rack for linoleum, etc. 1,701,045; Feb. 5.
- Kraus, Edward V., New Brunswick, N. J. Device for supporting rolled goods. 1,701,046; Feb. 5.
- Krause, Arnold R., and H. O. Hutchens, assignors to Gillette Rubber Company, Eau Claire, Wis. Chafer-applying machine. 1,717,710; June 18.
- Krause, Arnold R., and H. O. Hutchens, assignors to Gillette Rubber Company, Eau Claire, Wis. Tube drill. 1,731,010; Oct. 8.
- Krause, Arnold R., assignor to Gillette Rubber Company, Eau Claire, Wis. Stock feeding and adjusting device. 1,731,537; Oct. 15.
- Krause, Arnold R., assignor to Gillette Rubber Company, Eau Claire, Wis. Rimming press. 1,740,987; Dec. 24.
- Krause, Arnold R., Eau Claire, Wis., assignor to Gillette Rubber Company. Tread measuring and cutting machine. 1,741,634; Dec. 31.
- Krause, Arnold R., and A. C. Hirsch, assignors to Gillette Rubber Co., Eau Claire, Wis. Tread measuring and cutting device. 1,741,635; Dec. 31.
- Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Lighting-fixture plate or article of analogous nature. Des. 77,416; Jan. 8.
- Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Lighting-fixture dome. Des. 77,417; Jan. 8.
- Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Lighting-fixture backplate or article of analogous nature. Des. 77,418; Jan. 8.
- Krause, Arthur R., Woodhaven, N. Y., assignor to Max Schaffer Co., Inc. Lighting-fixture globe. Des. 78,523; May 14.
- Krause, Conrad B., Cleveland, Ohio. Refrigerating apparatus. 1,730,663; Oct. 8.
- Krause, Erich, South Jamaica, N. Y. Wind-actuated valve-closure mechanism. 1,701,857; Feb. 12.
- Krause, Hermann F., assignor to Stout Manufacturing Company, Menomonee Falls, Wis. Milk-bottle washer. 1,735,539; Nov. 12.
- Krause, Max, Chicago, Ill. Web support and upholstery construction. 1,700,939; Feb. 5.
- Krause, Norman R., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,706,617; Mar. 26.
- Krause, Norman R., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,708,311; Apr. 9.
- Krause, Norman R., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,709,178; Apr. 16.
- Krause, Raymond C., et al. (See Dautrick, Owen L., assignor.)
- Krause, Reinhold, Columbia Falls, Mont. Drill. 1,737,462; Nov. 26.
- Krause, William C., Milwaukee, Wis. Bottle-crate corner iron. 1,702,874; Feb. 19.
- Krause, Willy, Prospect Park, N. J. Submarine safety device. 1,743,864; Nov. 5.
- Kraushar, Isaac, Brooklyn, N. Y. Picture cover for autograph albums and books. 1,710,483; Apr. 23.
- Krauss, Carl, Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat indigoid dyestuffs from dihalogenoalkylisatins. 1,698,233; Jan. 8.
- Krauss, Hans, Berlin-Charlottenburg, Germany. Change-speed, or change-speed and reversing gears for transferring rotary motion from a driving to a driven shaft. 1,706,888; Mar. 26.
- Krauss, Herbert, Chemnitz, Germany. Feeding device for circular-milling machines. 1,703,076; Feb. 19.
- Kraut, Hans B., assignor to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis. Machine for reclaiming rails. 1,714,603; May 28.
- Kraut, Josephine. (See Kraut, Max, assignor.)
- Kraut, Max, San Francisco, Calif. Reagent feeder. Pump. 1,717,694; June 18.
- Krauter, Hermann, Philadelphia, Pa. Massaging and stimulating implement. 1,725,529; Aug. 20.
- Krauter, Hermann, Philadelphia, Pa. Massaging and stimulating implement. 1,725,530; Aug. 20.
- Krauth & Benninghofen. (See Schlichter, Oscar, assignor.)
- Kravitz, Max, Philadelphia, Pa. Gas burner. 1,705,363; Mar. 12.
- Kravitz, Morris, and H. W. Kiks, Brooklyn, N. Y. Carbon saver. 1,723,626; Aug. 6.
- Krawitz, Nathan, Philadelphia, Pa. Display device. 1,731,011; Oct. 8.
- Kraynick, Steve. (See Hachle, H., and Kraynick.)
- Kraynick, Steve, assignor to Harnischfeger Corporation, Milwaukee, Wis. Collector. 1,739,844; Dec. 17.
- Krč, John, Wallis Tex. Sprayer attachment for hose nozzles. 1,702,214; Feb. 12.
- Krcna, John F., Wilmotte, Ill. Vending machine. 1,711,685; May 7.
- Krebs, Adolf, Boston, Mass. Apparatus for use in welding metal. 1,728,972; Sept. 24.
- Krebs, Charles H., Milwaukee, Wis. Oil burner. 1,710,703; Apr. 30.
- Krebs, Ewald A. and F. A., Oberelsdorf, Germany. Subsoil plow. 1,711,355; Apr. 30.
- Krebs, Franz A. (See Krebs, Ewald A. and F. A.)
- Krebs, Michael F. (See Gundersen, R. W., and Krebs.)
- Krebs, William J., Dayton, Ohio. Musical instrument. 1,734,973; Nov. 12.
- Krebs, Willy, Niederlossnitz, near Dresden, Germany. Insertion sole for boots and shoes. 1,729,725; Oct. 1.
- Krecke, Joseph A. (See Vroom, E., and Krecke.)
- Krecke, Joseph A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,738,802; Dec. 3.
- Krech, Rudolf, Berlin-Treptow, and E. Keiner, Berlin-Wilmersdorf, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Polyazo dyes derived from tetrazotized halogenated 4,4'-diamino-diphenyl-methanes. 1,697,122; Jan. 1.
- Krechmer, Harry H., Ventnor, N. J. Automobile towing rope. 1,737,374; Dec. 3.
- Krecke, Friedrich. (See Laska, L., Krecke, and Weber.)
- Krecke, Friedrich, Offenbach, near Frankfurt-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. 2-hydroxynaphthalene-8-monosulfo-6-carboxylic acid and making it. 1,734,259; Nov. 5.
- Krecsy, William G., Kipling, Saskatchewan, Canada. Signaling device for vehicles. 1,700,802; Feb. 5.
- Kreeyoy, Edward P., Boston, Mass. Counting machine. 1,700,292; Jan. 29.
- Kreft, Frank E., Chicago, Ill. Testing device. 1,736,605; Nov. 19.
- Krehbiel, Frederick A., Hinsdale, Ill. Coal screen. 1,719,513; July 2.
- Kreher, Charles W. (See Brennan, J. F., and Kreher.)
- Kreher, Max, Freiberg, Germany. Power-transmission mechanism. 1,741,524; Dec. 31.
- Kreikenbohm, Wilhelm, Detroit, Mich. Aircraft. 1,697,770; Jan. 1.
- Kreis, Oscar C., assignor to Continental Motors Corporation, Detroit, Mich. Fuel-supply means for engines. 1,739,317; Dec. 10.
- Kreis, Walter, Binningen, near Basel, assignor to the firm of Chemical Works formerly Sandoz, Basel, Switzerland. Extracting the cardio-active substance of bulbous scilla. 1,725,652; Aug. 20.
- Kreisel, Franz K., Königstein-on-the-Elbe, Germany. Preparation of letters, figures, and like signs for fixing to windows and the like. 1,722,926; July 30.
- Kreisinger, Henry, Pittsburgh, Pa., and J. Anderson, Milwaukee, Wis., assignors to Combustion Engineering Corporation. Method of and apparatus for burning pulverized fuel. 1,712,999; May 14.
- Kreisinger, Henry, Piermont, assignor to Combustion Engineering Corporation, New York, N. Y. Burning of fuel. 1,714,678; May 28.
- Kreisinger, Henry, Piermont, assignor to International Combustion Engineering Corporation, New York, N. Y. Air washer. 1,734,677; Nov. 5.
- Kreiser, Jacques, New Rochelle, assignor to Jacques Kreiser & Co., New York, N. Y. Key wallet. 1,701,077; Feb. 5.
- Kreiser, Jacques, & Co. (See Kreiser, Jacques, assignor.)
- Kreissig, Ernst, Germany, assignor to Ringfeder G. m. b. H., Uerdingen-on-the-Rhine, Germany. Power-absorbing apparatus. 1,700,133; Jan. 29.
- Kreissig, Ernst, Uerdingen, Germany. Spring counterbalancing means. 1,741,525; Dec. 31.
- Kreji, Milo W. (See Garaux, Lawrence H., assignor.)
- Krell, George. (See Davis, Marvin B., assignor.)
- Krell, George, Sapulpa, Okla. Elevator. 1,702,349; Feb. 19.
- Krell, George, Sapulpa, Okla. Pull-rod retained. 1,702,350; Feb. 19.
- Krell, George, and G. M. Martinet, Sapulpa, Okla., said Martinet assignor to said Krell. Elevator or spider. 1,721,024; July 16.
- Krell, George, and G. M. Martinet, Sapulpa, Okla.; said Martinet assignor to said Krell. Drilling rig. 1,725,458; Aug. 20.
- Krell, George, and G. M. Martinet, Sapulpa, Okla.; said Martinet assignor to said Krell. Clamp. 1,725,459; Aug. 20.
- Krell, George, and G. M. Martinet, Sapulpa, Okla., said Martinet assignor to said Krell. Speed transformer. 1,729,220; Sept. 24.
- Krell, George, and G. M. Martinet, Sapulpa, Okla., said Martinet assignor to said Krell. Speed transformer. 1,735,768; Nov. 12.
- Krell, Joseph, Berlin-Pankow, Germany. Addressing machine and similar printing machine. 1,700,803; Feb. 5.
- Krell, Joseph, Berlin-Pankow, Germany. Printing machine. 1,706,531; Mar. 26.
- Krell, Joseph, Berlin-Pankow, Germany. Printing machine. 1,708,018; Apr. 9.
- Krell, Joseph, Berlin-Pankow, Germany. Printing machine. 1,717,230; June 11.
- Krell, Joseph, Berlin-Pankow, Germany. Printing machine. 1,717,231; June 11.
- Krell, Joseph, Berlin-Zehlendorf, Germany. Tab for printing plates of addressing machines. 1,732,686; Oct. 22.
- Krell, Otto, Berlin-Dahlem, Germany. Apparatus for landing airships. 1,734,812; Nov. 5.



- Krell, Otto, Berlin-Dahlem, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Searchlight. 1,706,236; Mar. 19.
- Krema, John F., Wilmette, assignor to The Dearborn Company, Chicago, Ill. Table. 1,729,221; Sept. 24.
- Krembs, Ottmar M., Chicago, Ill. Dip brazing. 1,719,512; July 2.
- Kremensky, Johann, Vienna, Austria. Adjustable high ohmic resistance and manufacturing same. 1,733,023; Oct. 22.
- Kremer, Harry D., Lexington, Ky. Razor-blade protector. 1,733,971; Oct. 29.
- Kremer, Joseph, Long Island City, N. Y., assignor to Wappler Electric Company, Inc. Electrically-operated hair curler. 1,740,983; Dec. 24.
- Krem-Ko Company. (See Gallagher, George F., assignor.)
- Kremlacek, Loddy G., Farwell, Nebr. Jockey stick. 1,718,862; June 25.
- Kremmling, Otto, Hamersleben, near Oschersleben, Germany. Method of and apparatus for mechanically treating objects. 1,741,722; Dec. 31.
- Kremp, Frank. (See Wietzel, R., and Kremp.)
- Kremski, Franz, and H. Siemering, New York, N. Y. Tie fastener. 1,726,185; Aug. 27.
- Krentler-Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
- Krentler, Walter A., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Two-part last and making same. 1,715,005; May 28.
- Krenzke, Paul F., Chicago, Ill. Mold conveyer. 1,723,941; Aug. 6.
- Krepps, Charles W., Beaver Falls, Pa., assignor to Elmer Freshwater, Painesville, Ohio. Spring. 1,723,484; Aug. 6.
- Kress, Claude W., New York, N. Y. Display cabinet. 1,713,664; May 21.
- Kress, Claude W., New York, N. Y. Display cabinet. 1,715,459; June 4.
- Kress, George, and E. Buehrer, Green Bay, Wis. Folding table. 1,727,833; Sept. 10.
- Kress, George R., Los Angeles, Calif. Moving large buildings. 1,723,358; Aug. 6.
- Kress, George R., Los Angeles, Calif. Loading buildings for moving. 1,737,250; Nov. 26.
- Kreth, Wilhelm. (See Möller, W., and Kreth.)
- Kretz, Harold C., Rochester, N. Y. Combination floor lamp and loud-speaker. Des. 79,250; Oct. 1.
- Kretzler, George. (See Welch, Henry E., assignor.)
- Kreuder, Louis P., assignor to Bell Tavern System, Chicago, Ill. Sign. Dvs. 73,105; Mar. 26.
- Kreuels, Hubert, Krefeld, Germany. Rebounding bow. 1,701,487; Feb. 5.
- Kreutzberg, Otto A., Lake Bluff, Ill. Centrifugal pulverizer. 1,737,854; Dec. 3.
- Kreutzkamp, Louis, Maspeth, N. Y. Elevator. 1,727,436; Sept. 10.
- Kreutzmann, Frank K., Cincinnati, Ohio. Vehicle signal. 1,723,045; Aug. 6.
- Kreuzer, Walter, Edwardsville, Ill. Fruit picker. 1,736,348; Nov. 19.
- Krick, George W., Los Angeles, Calif. Tile-enamel process. 1,724,206; Aug. 13.
- Krick, Leonard B., assignor to Citrus Products Company, Chicago, Ill. Bottle. Des. 78,163; Apr. 2.
- Krider, George E., assignor to McLanahan-Stone Machine Company, Hollidaysburg, Pa. Removable segment for crusher rolls. 1,713,609; May 21.
- Krider, George E., assignor to McLanahan-Stone Machine Company, Hollidaysburg, Pa. Roll-crusher teeth. 1,718,050; June 18.
- Krieg, Anthony W., New York, N. Y. Cake ornament. 1,696,959; Jan. 1.
- Krieg, Jack L., South Bend, Ind. Universal hook. 1,713,835; May 21.
- Krieg, John C. (See Murphy, D. R., and Krieg.)
- Krieger, Franklin O., assignor to RefinOil Manufacturing Corp., Kansas City, Mo. Apparatus for refining used oil. 1,707,673; Apr. 2.
- Kriete, D. Ed, et al. (See Greenstreet, Oliver P., assignor.)
- Krimstein, Samuel, Chicago, Ill. Collapsible receptacle. 1,724,667; Aug. 13.
- Kriner, Herman W., Greensboro, N. C. Gasoline purifier. 1,728,568; Sept. 17.
- Krisch, George, St. Louis, Mo. Airship. 1,738,187; Dec. 3.
- Krischer, Max, assignor to Krischer's Manufacturing Company, Brooklyn, N. Y. Luggage hardware. 1,721,960; July 23.
- Krischer's Manufacturing Company. (See Krischer, Max, assignor.)
- Krischer's Manufacturing Company. (See Rosenblum, Charles, assignor.)
- Krissiess, Max, assignor to Textile Machine Works, Wyomissing, Pa. Machine for making corded braid. 1,726,904; Sept. 3.
- Krist, Timothy, Cleveland, Ohio. Automatic stop for graphophones. 1,707,527; Apr. 2.
- Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Paper weight. Des. 77,843; Feb. 26.
- Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Fountain pen. 1,712,304; May 7.
- Kristofferson, Magnus, Limhamn, Sweden. Foam-destroying device. 1,699,196; Jan. 15.
- Kritzer, Richard W., assignor to Peerless Ice Machine Company, Chicago, Ill. Refrigerating system. 1,712,567; May 14.
- Kritzer, Richard W., assignor to Peerless Ice Machine Company, Chicago, Ill. Refrigerating system. 1,712,568; May 14.
- Krocker, Adolf G., Waco, Tex. Dishwasher. 1,734,137; Nov. 5.
- Kroczeck, Anton M., Chicago, Ill. Bird-cage-making machine. 1,706,853; Mar. 26.
- Kroczeck, Anton M., Chicago, Ill. Making bird cages. 1,706,854; Mar. 26.
- Krödel, Frank J., assignor of one-seventh to J. T. De Remer, one-seventh to J. F. Gildea, one-seventh to D. A. McCarthy, one-seventh to H. H. Krödel, one-seventh to F. F. Kessler, and one-seventh to C. M. Ercanbrack, Chicago, Ill. Propeller mechanism. 1,708,475; Apr. 9.
- Krödel, Henry H., et al. (See Krödel, Frank J., assignor.)
- Kroeger, Edwin J., assignor to John R. Gammeter, Akron, Ohio. Rubber heel. 1,721,599; July 23.
- Kroeger, Ferdinand J. (See Hohnhorst, F. J., and Kroeger.)
- Kroeger, Frederick C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Terminal clip. 1,700,899; Feb. 5.
- Kroeger, Frederick C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Circuit breaker. 1,708,225; Apr. 9.
- Kroeger, Frederick C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,708,226; Apr. 9.
- Kroehle, Ralph, Warren, Ohio. Commutator. 1,721,515; July 23.
- Kroehler Mfg. Co. (See Kroehler, Peter E., assignor.)
- Kroehler Manufacturing Company. (See Taylor, J. O., and Doyle, assignors.)
- Kroehler, Peter E., Riverside, assignor to Kroehler Mfg. Co., Naperville, Ill. Spring-assembling mechanism and method. 1,706,889; Mar. 26.
- Kroemer, Joseph E., St. Paul, Minn. Bag. 1,713,341; May 14.
- Kroesen, Arthur L. (See Coppock, Lambert W., assignor.)
- Krogel, George H., Troy, N. Y. Combined name and bell-button plate. 1,734,678; Nov. 5.
- Krogel, Henry C., Geneva Township, Van Buren County, assignor of one-half to A. Niffenegger, South Haven, Mich. Wrench. 1,721,860; July 23.
- Kroh, Calvin Z., Toledo, Ohio. Motor-boat top. 1,741,318; Dec. 31.
- Krohn, Herman, Easton, Pa. Combined inkstand, pen rack, desk lamp, and electric fan. Des. 78,212; Apr. 9.
- Krohs, Walter. (See Stolz, F., and Krohs.)
- Kroiss, Micheal H., Spokane, Wash. File. 1,721,822; July 23.
- Kroll, Guillaume J., Luxembourg, Luxembourg. Production of alloys of lead with alkaline-earth metals. 1,707,059; Mar. 26.
- Kroll, Wilhelm, Luxembourg, Luxembourg. Production of metallic beryllium. 1,740,857; Dec. 24.
- Krom, Myron E. (See Stacy, L. J., and Krom.)
- Krome-Sebek Die Casting & Mfg. Co. (See Sebek, Albert, assignor.)
- Kronauer, Frank C., Glen Rock, assignor to The National Lock Washer Company, Newark, N. J. Rail joint. 1,718,366; June 25.
- Kronberg, Ninni M., Rydsgård, Sweden. Producing a pulverized-milk serum product. 1,721,867; July 23.
- Kronborg, Kristian. (See Rectanus, S. R., and Kronborg.)
- Krone, Carl R., Oakland, Calif. Switch. 1,697,980; Jan. 8.
- Krone, Carl R., Oakland, Calif. Socket for audion tubes. 1,702,122; Feb. 12.
- Krone, Carl R., Oakland, Calif. Novelty. 1,708,581; Apr. 9.
- Krone, Paul, Chicago, Ill. Automobile radiator-cap ornament. Des. 78,825; June 25.
- Krone-Sebek Die Casting & Mfg. Co. (See Sebek, Albert, assignor.)
- Kronenberg, Rudolf, Haus Kronenberg, Germany. Rolling mill. 1,697,012; Jan. 1.
- Kronenberger, Ferdinand, New York, N. Y. Rail spike. 1,698,370; Jan. 8.
- Kronheim, Jacob, Cleveland, Ohio. Resilient bottom for couches, chairs, etc. 1,722,534; July 30.
- Kronheim, Jacob, Cleveland, Ohio. Chair and couch. 1,739,147; Dec. 10.
- Kronish, Louis, New York, N. Y. Powder compact and making same. 1,711,798; May 7.
- Kronmiller, Carl G., Chicago, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Bag conveyer. 1,739,400; Dec. 10.
- Kronqvist, Karl F., Helsinki, Finland. Wrapping machine. 1,703,043; Feb. 19.
- Kropenicki, Joseph, Newark, N. J., and J. Zielinski, New York, N. Y., assignors to Automatic Safety Control Inc., Newark, N. J. Automatic control valve. 1,711,951; May 7.
- Kropff, Wilhelm, Berlin-Charlottenburg, Germany. assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,740,944; Dec. 24.
- Kropp, Andrew J., Dorothy, Minn. Device for removing roots. 1,723,943; Aug. 6.
- Kropp, Charles A. (See Kropp, Roy A., assignor.)
- Kropp, Roy A., assignor of one-half to C. A. Kropp, Chicago, Ill. Making nozzles. 1,721,630; July 23.



- Kropp, Walter, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc. Solution of hypnotics and sedativa and solvents therefor. 1,707,863; Apr. 2.
- Kropp, Walter, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. New basic oxime ethers of cyclic compounds. 1,733,462; Oct. 29.
- Kroscoy, Henry J., Milwaukee, Wis. Ejector pump. 1,737,887; Dec. 3.
- Krotoschin, Simon, Leipzig, Germany. Placard. 1,708,019; Apr. 9.
- Kroydon Company, The. (See Kraeuter, Arthur A., assignor.)
- Kruckenber, Franz, Heidelberg, Germany. Arrangement for the intense transportation of persons. 1,725,653; Aug. 20.
- Kruckenber, Franz, Heidelberg, Germany. Method of and device for dampening noises caused by propellers and other quickly-moving bodies. 1,727,720; Sept. 10.
- Kruckenber, Franz, and W. Black, Heidelberg, Germany; said Black assignor to said Kruckenber. High-speed suspended railway. 1,727,070; Sept. 3.
- Kruckenber, Franz, and C. Stedefeld, Heidelberg, Germany; said Stedefeld assignor to said Kruckenber. Switch in particular for high-speed suspension railways. 1,699,594; Jan. 22.
- Kruckenber, Franz and C. Stedefeld, Heidelberg, Germany; said Stedefeld assignor to said Kruckenber. Radiator arrangement for cars with high speeds. 1,712,622; May 14.
- Kruckenber, Franz, and C. Stedefeld, Heidelberg, Germany. Rail-bearer structure for high-speed suspended railways. 1,734,865; Nov. 5.
- Krueger, Albert G., assignor to Alwin Manufacturing Co., Green Bay, Wis. Napkin dispensing cabinet. 1,729,349; Sept. 24.
- Krueger, Charles E., St. Paul, Minn. Battery-water-level indicator. 1,724,287; Aug. 13.
- Krueger, Edward C., Eldorado, Wis. Fishing tool for use in wells. 1,707,085; Mar. 26.
- Krueger, Gerhard J. (See Mahler, E. C., and Krueger.)
- Krueger, Hedwig. (See Jaeger, Max, assignor.)
- Krueger, John, Milwaukee, Wis. Metal-bending brake. 1,721,698; July 23.
- Krueger, Max, Brooklyn, N. Y. Safety device for gas cocks. 1,700,063; Jan. 22.
- Krueger, Richard H., assignor to Charles Engelhard, Inc., Newark, N. J. Gas-analysis apparatus. 1,698,887; Jan. 15.
- Krueger, Richard H., assignor to Charles Engelhard, Inc., Newark, N. J. Electrical instrument. 1,715,374; June 4.
- Krueger, Robert C., Manhattan, Kans., assignor to E. J. Brach & Sons, Chicago, Ill. Candy-display device. 1,709,080; Apr. 16.
- Krug, Albert J., Palo Alto, Calif. Masking tape. 1,726,744; Sept. 3.
- Kruger, Harry B. (See Moore, Ralph S., assignor.)
- Krüger, Hedwig O. S. (See Jaeger, Max, assignor.)
- Krukowski, Joseph, Brooklyn, N. Y. Tailor's precision measure. 1,736,537; Nov. 19.
- Krum, Alfred. (See Schuler, H. and Krum.)
- Krum, Charles L. and H. L., assignors, by mesne assignments, to Teletype Corporation, Chicago, Ill. Printing-telegraph apparatus. 1,738,777; Dec. 10.
- Krum, Howard L. (See Krum, Charles L. and H. L.)
- Krumholz, John, Mineola, N. Y. Roof bracket. 1,732,973; Oct. 22.
- Krumm, Carl, Hamburg, Germany. Spring-balanced transverse support for bed bottoms in bedsteads. 1,719,771; July 2.
- Krumm, Jacob M., Newhall, Iowa. Stock-watering fountain. 1,738,303; Dec. 3.
- Krumm, Theodore, Redlands, Calif. Portable filling device. 1,732,271; Oct. 22.
- Krummel, Fritz L., Graston, Minn. Screw driver. 1,731,979; Oct. 15.
- Krumpelbeck, Edward L., assignor to The Globe Overall Company, Cincinnati, Ohio. Overall pocket. 1,717,982; June 18.
- Krumper, Friedrich, Hohenems, Austria. Shuttle for weaving looms. 1,725,804; Aug. 27.
- Krupka, Cölestia. (See Krupka, Josef and C.)
- Krupka, Josef and C., Vienna, Austria. Water glide shoe. 1,719,059; July 2.
- Krupp, Louis, New York, N. Y. Power-operated brake. 1,728,797; Sept. 17.
- Krupper, Herman C., Inc. (See Anduze, Lucien, assignor.)
- Kruschka, Anton, Pittsburgh, Pa. Soldering iron. 1,733,125; Oct. 29.
- Kruse, Alexander Z., Brooklyn, N. Y. Stapling machine. 1,705,819; Mar. 19.
- Kruse, Alexander Z., Brooklyn, N. Y. Stapling machine. 1,708,730; Apr. 9.
- Kruse, John F., Indianapolis, Ind. Extended bath cabinet. 1,708,624; Apr. 9.
- Kruse, Otto V., Narberth, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Valve. 1,723,736; Aug. 6.
- Kruse, Otto V., Narberth, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Valve. 1,734,733; Nov. 5.
- Kruse, Otto V., St. Davids, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Valve. 1,727,548; Sept. 10.
- Kruse, Peter, Brooklyn, assignor to E. W. Bliss Company, New York, N. Y. Horn support for can-soldering machines. 1,700,134; Jan. 29.
- Kruse, Peter, Brooklyn, assignor to E. W. Bliss Company, New York, N. Y. Can body forming wings. 1,723,737; Aug. 6.
- Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Tubular can-body horn. 1,740,863; Dec. 24.
- Kruse, William J., Kekaha, Hawaii. Nozzle. 1,730,664; Oct. 8.
- Krusi, Max B., Habana, Cuba. Liquid container and applicator. 1,705,256; Mar. 12.
- Kruzel, Piotr, Chicago, Ill. Animal trap. 1,712,115; May 7.
- Kryzanowsky, Constant J., Baltimore, Md. Liquid-level gauge. 1,724,716; Aug. 13.
- Krzikalla, Hans. (See Meyer, K. H., and Krzikalla.)
- Krzikalla, Hans, Mannheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Production of dyestuffs containing chromium. 1,728,998; Sept. 24.
- Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,419; Jan. 8.
- Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,420; Jan. 8.
- Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,421; Jan. 8.
- Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,970; Mar. 12.
- Kubiak, Lester S., assignor to The Photogenic Machine Company, Youngstown, Ohio. Carbon control for arc lamps. 1,698,917; Jan. 15.
- Kubiak, Lester S., assignor to The Photogenic Machine Company, Youngstown, Ohio. Electric-arc lamp. 1,698,918; Jan. 15.
- Kubiak, Lester S., assignor to The Photogenic Machine Company, Youngstown, Ohio. Electric-arc lamp. 1,698,919; Jan. 15.
- Kubiak, Lester S., assignor to The Photogenic Machine Company, Youngstown, Ohio. Electric-arc lamp. 1,702,638; Feb. 19.
- Kubin, Van J., Torrance, and P. Funderburk, Huntington Beach, Calif. Rotary disk bit. Re17,522; Dec. 10.
- Kübler, Johann, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Conversion of electric currents. 1,712,504; May 14.
- Kübler, Johann, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Rectifying system and feeding apparatus therefor. 1,712,505; May 14.
- Kübler, Johann, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Rectifier system. 1,712,569; May 14.
- Kübler, Johann, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Transformer for feeding polyphase rectifiers. 1,719,892; July 9.
- Kubler, Johann, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Rectifying system. 1,727,834; Sept. 10.
- Kubler, Johann, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Rectifier system. 1,728,290; Sept. 17.
- Kubler, Johannes, Baden, Switzerland. Electrical apparatus. 1,722,149; July 23.
- Kübler, Theodor, Stuttgart, Germany. Sprayer or atomizer. 1,727,549; Sept. 10.
- Kubota, Shiro. (See Chogo, Koji, assignor.)
- Kucera, Jan, Prague, Czechoslovakia. Box with cover. 1,731,860; Oct. 15.
- Kucera, Peter P., Pittsburgh, Pa. Jar cover. 1,702,476; Feb. 19.
- Kuch, Charles F., jr., Norwalk, Conn. Stapling machine. 1,704,507; Mar. 5.
- Kucha, Charles L., Artesian, S. Dak. Mower guard. 1,735,322; Nov. 12.
- Kucharski, Hans, and M. Wieske, deceased, by A. Wieske née Wabnitz, administratrix, assignors to Universum-Film-Aktiengesellschaft, Berlin, Germany. Switch for controlling the lighting circuits of cinematograph apparatus. 1,725,284; Aug. 20.
- Küchenmeister, Heinrich, Berlin, Germany. Talking machine. 1,742,085; Dec. 31.
- Kucher, Andrew A., Chester, Pa. Aircraft. 1,717,390; June 18.
- Kucher, Andrew A., Chester, Pa. Toy. 1,725,870; Aug. 27.
- Kucher, Andrew A., Chester, Pa. Aircraft. 1,727,014; Sept. 3.
- Kucher, Andrew A., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerator. 1,719,807; July 2.
- Kucher, Andrew A., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerator. 1,719,808; July 2.
- Kucher, Andrew A., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerator. 1,719,809; July 2.
- Kucher, Andrew A., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerating machine. 1,719,810; July 2.
- Kucher, Andrew A., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerator. 1,719,820; July 2.
- Kucher, Andrew A., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Working fluid for refrigeration. 1,735,170; Nov. 12.



- Kuck, Henry G., assignor to Stuber & Kuck Co., Peoria, Ill. Display rack. 1,716,964; June 11.
- Kudrna, Frank J., jr., and N. Yirkosky, Chicago, Ill. Automobile ignition-control switch. 1,697,071; Jan. 1.
- Kuebler, Otto C., Yonkers, N. Y. Water heater. 1,732,129; Oct. 15.
- Kuechenmeister, John H., Clayton, Mo. Flash light. 1,700,768; Feb. 5.
- Kuechenmeister, John H., Clayton, Mo. Sprinkler-top can. 1,708,582; Apr. 9.
- Kuehl, Aimee L., Minonk, Ill. Chicken brooder. 1,716,177; June 4.
- Kuehn, Paul M. (See Jagschitz, K., and Kuehn.)
- Kuehn, Paul M., assignor to The Bartlett-Hayward Company, Baltimore, Md. Gas holder. 1,711,392; Apr. 30.
- Kuehn, Paul M., assignor to The Bartlett-Hayward Co., Baltimore, Md. Metallic roof. 1,729,946; Oct. 1.
- Kuehn, Waldemar O., and T. Wesolowski, Milwaukee, Wis. Safety lock for gas cocks. 1,740,945; Dec. 24.
- Kuehne, Oscar C. (See Boeck, F. C., and Kuehne.)
- Kuehne, Otto R., Redlands, Calif. Sanitary attachment for toilet seats. 1,740,544; Dec. 24.
- Kuehner, Wilhelm, Providence, R. I. Bracelet. 1,758,106; Dec. 3.
- Kuen, Eugene A., Cincinnati, Ohio. Single-control mechanism for radio tuning devices. 1,700,940; Feb. 5.
- Kuen, Eugene A., Cincinnati, Ohio. Radiotube. 1,716,645; June 11.
- Kuen, Eugene A., Cincinnati, Ohio. Transformer. 1,718,326; June 25.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Lamp-bulb socket. 1,703,626; Feb. 26.
- Kuen, Eugene A., Cincinnati, Ohio, and C. L. Patterson, Detroit, Mich. Radiotube. 1,722,002; July 23.
- Kuen, Rhinehart V., Norway, Iowa. Quadrupedal toy. 1,707,735; Apr. 2.
- Kuen, Rhinehart V., Norway, Iowa. Bipedal toy. 1,724,094; Aug. 13.
- Kuenhold, Otto J., Cleveland, Ohio. Drying apparatus. 1,711,799; May 7.
- Kuenhold, Otto J., Cleveland, Ohio. Drying apparatus. 1,736,201; Nov. 19.
- Kuenstler, Walter E., New York, N. Y. Radiator. 1,737,251; Nov. 26.
- Kuepfer, Otto J., Spencer, Ohio. Coincidental ignition and steering wheel lock. 1,714,426; May 21.
- Kuester, Clarence V., Menasha, Wis. Case with clip. 1,713,760; May 21.
- Kugler, August, Stuttgart, Germany. Adjustable and interchangeable advertising sign. 1,725,008; Aug. 20.
- Kuhl, Leo, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Speed indicator. 1,709,674; Apr. 16.
- Kuhl, Leo, and C. Ritz, Berlin-Charlottenburg, Germany, assignors to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt. Welding apparatus for attaching tie plates to steel railroad ties. 1,720,222; July 9.
- Kuhl, Leo, and C. Ritz, Berlin-Charlottenburg, assignors to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Apparatus for welding the tieplates to steel ties. 1,732,900; Oct. 22.
- Kühl, Theodor, assignor to the firm Carl Zeiss, Jena, Germany. Appliance for photographing the interior of the eye. 1,741,526; Dec. 31.
- Kuhl, Walter F., Beaumont, Alberta, Canada. Clevis pin. 1,719,891; July 9.
- Kuhle Machine Company, The. (See Kuhlke, Otto J., assignor.)
- Kuhlke, Otto J., Akron, Ohio. Manufacturing puncture-proof tubes. 1,709,797; Apr. 16.
- Kuhlke, Otto J., Akron, Ohio. Golf ball and manufacture of the same. 1,715,661; June 4.
- Kuhlke, Otto J., assignor to The Kuhlke Machine Company, Akron, Ohio. Collapsible core. 1,704,291; Mar. 5.
- Kuhlke, Otto J., assignor to The Kuhlke Machine Company, Akron, Ohio. Collapsible core. 1,704,292; Mar. 5.
- Kuhlke, Otto J., assignor to The Kuhlke Machine Company, Akron, Ohio. Collapsible core. 1,704,293; Mar. 5.
- Kuhlke, Otto J., assignor to The Kuhlke Machine Company, Akron, Ohio. Collapsible core or form. 1,704,294; Mar. 5.
- Kuhlke, Otto J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Apparatus for vulcanizing inner tubes. 1,707,620; Apr. 2.
- Kuhlke, Otto J., assignor to The Kuhlke Machine Company, Akron, Ohio. Manufacturing inner tubes. 1,709,796; Apr. 16.
- Kuhlke, Otto J., assignor to The National Rubber Machinery, Akron, Ohio. Apparatus for vulcanizing inner tubes. 1,727,304; Sept. 3.
- Kuhlke, Otto J., Akron, Ohio. Pneumatic tire and making same. 1,731,247; Oct. 15.
- Kuhlman, Arthur L., Bay City, Mich. Rule. 1,699,847; Jan. 22.
- Kuhlman, George, Long Island City, N. Y., assignor to The Heil Co., Milwaukee, Wis. Hinge for rear gates. 1,740,772; Dec. 24.
- Kuhlmann, Johann H. W. (See Ryan, Thomas D., assignor.)
- Kuhlmann, John. (See Weise, P. G. A., and Kuhlmann.)
- Kuhlmann, Nelson L., Kerrville, Tex. Wire-winding device. 1,721,157; July 16.
- Kuhn, Antonius R., Pasadena, and J. J. Furlong, Vernon, Calif. Labeling bottles. 1,725,199; Aug. 20.
- Kuhn, Clarence W., North Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Protective device. 1,732,477; Oct. 22.
- Kuhn, Frank, assignor to American Electrical Heater Company, Detroit, Mich. Thermostatic control for electric heaters. 1,728,291; Sept. 17.
- Kuhn, Frank, assignor to American Electrical Heater Company, Detroit, Mich. Thermostatic switch for electrical heating devices. 1,741,466; Dec. 31.
- Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Flatiron stand. 1,725,871; Aug. 27.
- Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Electric melting pot. 1,738,908; Dec. 10.
- Kuhn, George W. (See Abbott, H. H., and Kuhn.)
- Kuhn, Harry A., Pittsburgh, Pa. Compound ingot and producing the same. 1,702,387; Feb. 19.
- Kuhn, John J., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,733,609; Oct. 29.
- Kuhn, Karl, Heidelberg, Germany. Device for strengthening the gums. 1,714,029; May 21.
- Kühn, Ludwig. (See Rottgardt, K., and Kühn.)
- Kuhn, Max O. (See Woodward, A. W., and Kuhn.)
- Kuhn, Max O., assignor to The Firestone Steel Products Company, Akron, Ohio. Punching and riveting press. 1,697,817; Jan. 1.
- Kuhn, Perry V., Tiffin, Ohio. Tent frame. 1,720,132; July 9.
- Kuhn, William C., Morrisville, Pa., assignor to The American Steel and Wire Company of New Jersey. Concrete-reinforcement support. 1,724,843; Aug. 13.
- Kuhnast, Oswald, Horn, near Roermond, Netherlands. Two-stroke combustion engine. 1,709,269; Apr. 16.
- Kühne, Martin, Dresden, Germany. Knitting machine. 1,718,295; June 25.
- Kuhns, George T., and R. S. Wiles, Duncan, Okla. Gas-tank cap lock. 1,722,527; July 30.
- Kuhr, William. (See Quandt, Fred, jr., assignor.)
- Kuipers, Clarence A. G., Winnetka, Ill. Sign. 1,720,736; July 16.
- Kujirai, Tsunetaro, Nakano-Machi, Toyotama-Gori, and S. Ueki, Oji-Machi, Kitatoshima-Gori, Tokyo Prefecture, assignors to Zaidan Hojin Rikagaku Kenkyujo, Hongo-Ku, Tokyo, Japan. Coating metallic aluminum or aluminum alloys with aluminum oxide skin. 1,735,286; Nov. 12.
- Kuke, Fritz, Berlin, Germany. Multiple plug and socket for portable telephone stations. 1,703,492; Feb. 26.
- Kukel, Sergei A., Moscow, Russia. Production of single and multiphase alternating currents. 1,703,242; Feb. 26.
- Kuker, Otto J., Seattle, Wash. Hand level. 1,741,422; Dec. 31.
- Kukla, Joseph, Monongah, W. Va. Reinforced tool handle. 1,711,319; Apr. 30.
- Kukovac, George, Chicago, Ill. Combination charge-forming apparatus. 1,723,184; Aug. 6.
- Kulage, Dominick, St. Louis, Mo. Portable groove cutter. 1,712,275; May 7.
- Kulair Corporation. (See Kusel, A. J., and Gail, assignors.)
- Kulebakin, Victor, Moscow, Russia. Disturbance eliminator. 1,732,807; Oct. 22.
- Kuleck, Walter, Passaic, N. J. Aeroplane propeller. 1,730,432; Oct. 8.
- Kulik, Irving, Brooklyn, N. Y. Method of and apparatus for filling teeth. 1,711,952; May 7.
- Kulik, Irving, Brooklyn, N. Y., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. 1,712,084; May 7.
- Kulik, Irving, Brooklyn, N. Y., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. 1,738,146; Dec. 3.
- Kulka, Eugene R., Brooklyn assignor to C. D. Wood Electric Co. Inc., New York, N. Y. Lock-nut device. 1,697,602; Jan. 1.
- Kulka, Eugene R., Brooklyn, assignor to C. D. Wood Electric Co. Inc., New York, N. Y. Making plug receptacles and improved plug receptacles. 1,726,745; Sept. 3.
- Kull, Walter A., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering-gear assembly. 1,727,778; Sept. 10.
- Kuller, Max, et al. (See Kämpfer, Adolf, assignor.)
- Kullmann, Joseph, West Hempstead, assignor to Joshua Hoyle & Sons, Limited, Inc., New York, N. Y. Textile fabric. Des. 78,633; May 28.
- Kullmann, Joseph, West Hempstead, assignor to Joshua Hoyle & Sons, Limited, Inc., New York, N. Y. Textile fabric. Des. 78,634; May 28.
- Kullmann, Joseph, West Hempstead, assignor to Joshua Hoyle & Sons, Limited, Inc., New York, N. Y. Textile fabric. Des. 78,635; May 28.
- Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Collapsible valve-spring-lifter lock. 1,713,761; May 21.
- Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Valve-spring compressor. 1,713,762; May 21.
- Kulp, Harry W., assignor of one-half to M. C. Dellinger, Lancaster, Pa. Valve-spring lifter and compressor. 1,713,763; May 21.
- Kulp, William E. (See Arnold, D. R., and Kulp.)



- Kummerer, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Transferring means for electromagnetic wave energy. 1,706,030; Mar. 19.
- Kummerer, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Method and arrangement for electrical measurements. 1,708,544; Apr. 9.
- Kummerer, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Coupling circuit. 1,723,485; Aug. 6.
- Kummerer, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Control means for modulator tubes. 1,724,668; Aug. 13.
- Kummerer, Wilhelm, Berlin, Germany, assignor to Radio Corporation of America. Oscillation circuits. 1,726,076; Aug. 27.
- Kunath, Richard J., North Bergen, N. J. Harness motion for looms. 1,714,791; May 28.
- Kuney, Clarence F., Brookfield, assignor to Federal Steel Sash Company, Waukesha, Wis. Glazing clip. 1,708,068; Apr. 9.
- Kuney, Clarence F., Brookfield, assignor to Federal Steel Sash Company, Waukesha, Wis. Window sash. 1,715,608; June 4.
- Kunkle, Bayard D., and O. M. Summers, assignors to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,724,095; Aug. 13.
- Kunkle, Francis A., Slatington, Pa. Heat-operated alarm. 1,720,793; July 16.
- Kuntz, Henry, Tiffin, Ohio. Wheel cleaner. 1,719,271; July 2.
- Kunz, Ludwig, New York, N. Y., assignor to The Lash's Products Company, San Francisco, Calif. Preparing fruit syrups. 1,735,118; Nov. 12.
- Kunz, Max A., Mannheim, and K. Köberle, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Production of vat dyestuffs. 1,714,427; May 21.
- Kunze, Ernst L., Chemnitz, Germany. Shuttle driver for looms. 1,716,353; June 4.
- Kunze, Hugo. (See Wandersleb, E., and Kunze.)
- Kunze, Walter, Berlin-Wannsee, Germany. Loud-speaker. 1,716,893; June 11.
- Kunze, Walter, Berlin, Germany, assignor to Radio Corporation of America. Beat-frequency heterodyne receiver arrangement. 1,735,171; Nov. 12.
- Kunze, Willy, Bremen, Germany. Device for transmitting and receiving sound waves in water on board ship from ships. 1,719,937; July 9.
- Kunze, Willy, assignor to Atlas-Werke Aktiengesellschaft, Bremen, Germany. Distance measuring with the aid of sound waves. 1,718,422; June 25.
- Kupelian, Diran, El Centro, Calif. Adjustable bulk head for refrigerator cars. 1,721,563; July 23.
- Kupetz, Adolph G., New Rochelle, assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y. Computing machine. 1,697,981; Jan. 8.
- Kupetz, Adolph G., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,713,086; May 14.
- Kupetz, Adolph G., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,733,501; Oct. 29.
- Kupetz, Adolph G., assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y. Combined typewriting and computing machine. 1,715,609; June 4.
- Kupfer, Carl, assignor to Triumph-Werke Nurnberg A.-G., Nuremberg, Germany. Escapement mechanism. 1,702,831; Feb. 19.
- Kupfer, Carl, assignor to Triumph-Werke Nurnberg A.-G., Nuremberg, Germany. Decimal tabulator for typewriters. 1,740,926; Dec. 24.
- Kupfer, William H., Chicago, Ill. Kitchen reminder. 1,702,873; Feb. 19.
- Kupfer, William H., Chicago, Ill. Badge. 1,740,822; Dec. 24.
- Kupfmüller, Carl, Schöneberg-Berlin, and H. Mayer and D. Thierbach, Charlottenburg-Berlin, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Transmission-measuring apparatus. 1,705,926; Mar. 19.
- Kupfmüller, Carl, Berlin-Schöneberg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Pupin-loaded long-distance cable with phantom formation. 1,719,473; July 2.
- Kupfmüller, Carl, Berlin-Friedenau, F. Tuzcek, Berlin, and H. Mayer, Berlin-Charlottenburg, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Control of the transmission efficiency. 1,737,503; Nov. 26.
- Kupka, Johann, London, England. Cam-operated balanced valve gear for steam locomotives and like engines. 1,738,435; Dec. 3.
- Kupper, Herman C. Inc. (See Lindley, Walter, assignor.)
- Kupper, William H., Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,701,376; Feb. 5.
- Kuppers, Carl, Astoria, N. Y. Distributor-testing device. 1,702,011; Feb. 12.
- Kurasch, Claude H., and F. Medler, Portland, Oreg. Theater chair. 1,726,030; Aug. 27.
- Kurath, Frank, Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer Inc. Cold-molded plastic-composition article and making the same. 1,732,478; Oct. 22.
- Kurath, Franz. (See Cherry, O. A., and Kurath.)
- Kurath, Franz, assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Producing phenolic condensation products. 1,726,671; Sept. 3.
- Kurek, Edmund, Chippewa Falls, Wis. Isolation of gases. 1,708,067; Apr. 9.
- Kurek, Edmund, Chippewa Falls, Wis. Recovering iodine. 1,731,309; Oct. 15.
- Kuriansky, Aaron, et al. (See Chamberlin, Ing, assignor.)
- Kurie, Charles W., jr., assignor to The Cycle Company, Colorado Springs, Colo. Mechanical movement. 1,735,928; Nov. 19.
- Kurie, Charles W., jr., assignor to The Cycle Company, Colorado Springs, Colo. Mechanical movement. 1,702,164; Feb. 12.
- Kurihara, Yasaku, Hollywood, Calif. Game apparatus. 1,714,792; May 28.
- Kurilla, Harry, Shenandoah, Pa. Automobile radiator-cap ornament or similar article. Des. 79,728; Oct. 29.
- Kurlash Company Inc., The. (See Stickel, C. W., and McDonell, assignors.)
- Kuroda, Tarokichi, Los Angeles, Calif. Soap leaf. 1,723,560; Aug. 6.
- Kurowski, Alfred G. F. (See Corcoran, C. B., and Kurowski.)
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,698,817; Jan. 15.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,699,616; Jan. 22.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,700,769; Feb. 5.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,700,900; Feb. 5.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting-machine casing. 1,700,941; Feb. 5.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,704,707; Mar. 12.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,705,927; Mar. 19.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,709,355; Apr. 16.
- Kurowski, Alfred G. F., Brooklyn, assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y. Combined typewriting and computing machine. 1,710,775; Apr. 30.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,712,623; May 14.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,714,604; May 28.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,718,694; June 25.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,730,040; Oct. 1.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,735,870; Nov. 19.
- Kurowski, Alfred G. F., Brooklyn, N. Y., and C. E. Norin, Jersey City, N. J., assignors to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,737,723; Dec. 3.
- Kurpiel, Ladislav, Prague, Czechoslovakia. Box opener. 1,700,682; Jan. 29.
- Kurth, William H., assignor to The Heyer Duplicator Co. Inc., Chicago, Ill. Stencil sheet and backing. 1,741,029; Dec. 24.
- Kurtz, Benjamin F., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Empty and load brake. 1,740,545; Dec. 24.
- Kurtz, Charles F., assignor of one-half to H. E. Long, Rock Island, Ill. Coin-operated vending machine. 1,732,272; Oct. 22.
- Kurtz, Charles F., assignor of one-half to H. E. Long, Rock Island, Ill. Coin-operated vending machine. 1,732,307; Oct. 22.
- Kurtz, Clinton J., San Diego, Calif. Ventilating means for houses. 1,717,788; June 18.
- Kurtz, D. W. B., jr. (See Kavaney, Charles P., assignor.)
- Kurtz, Samuel E., Sac City, Iowa. Ice-cutting device. 1,736,538; Nov. 19.
- Kurtze, Reimar C. F. (See Crawford, W. E., and Kurtze.)
- Kurz, Anna M., administratrix. (See Kurz, Otto.)
- Kurz, Fred, assignor to Sangamo Electric Company, Springfield, Ill. Correcting temperature errors in electric meters. 1,722,756; July 30.
- Kurz, Fred, and R. Wilmeth, assignors to Sangamo Electric Company, Springfield, Ill. Apparatus for controlling the registration curve of electric meters. 1,727,509; Sept. 10.



- Kurz & Kasch Company, The. (See Copeland, Harry N., assignor.)
- Kurz-Kasch Company, The. (See Kasch, Henry J., assignor.)
- Kurz-Kasch Company, The. (See McBarron, William H., assignor.)
- Kurz-Kasch Company, The. (See Sparks, Charles, assignor.)
- Kurz-Kasch Company, The. (See Terrill, Clair J., assignor.)
- Kurz, Otto, deceased, Chicago, Ill.; A. M. Kurz, administratrix. Intermittent drive for score-keeping devices. 1,738,909; Dec. 10.
- Kusch, Charles F., Chicago, Ill., Exit-door latch. 1,704,748; Mar. 12.
- Kusel, Abraham J., Bridgeport, Conn., and G. W. Gail, Ruxton, assignors to Kulair Corporation, Baltimore, Md. Thermal control device. 1,706,890; Mar. 26.
- Kusel, Abraham J., Baltimore, and G. W. Gail, Ruxton, assignors to Kulair Corporation, Baltimore, Md. Evaporator element. 1,706,891; Mar. 26.
- Kushner, Andrew S., Beccaria, Pa. Commode. 1,719,938; July 9.
- Kushner, Max, Brooklyn, N. Y. Panel for lamp shades or similar articles. Des. 79,194; Aug. 13.
- Kuske, Julius A., Spanish Lake, Mo. Engine. 1,706,086; Mar. 26.
- Kussat, Rudolf O., Brooklyn, N. Y. Game device. 1,716,815; June 4.
- Kussmaul, Walter. (See Stolle, A., and Kussmaul.)
- Küssner, Hans G., Grunau, Germany. Counterpiston motor. 1,698,598; Jan. 8.
- Kusterer, Carl C., Grand Rapids, Mich. Chest. 1,699,740; Jan. 22.
- Kusterer, Carl C., Grand Rapids, Mich. Convertible chair bed. 1,741,192; Dec. 31.
- Kusterle, Frank, Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Side and end rail lock for bedsteads. 1,715,070; May 28.
- Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Metallic receptacle. 1,716,495; June 11.
- Kusterle, Frank, Kenosha, assignor to Simmons Company, Kenosha, Wis. Crib. 1,718,367; June 25.
- Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Chair back. 1,720,194; July 16.
- Kusterle, Frank, Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Adjustable support for bed springs. 1,726,706; Sept. 3.
- Kusterle, Frank, Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead. 1,732,237; Oct. 22.
- Kusterle, Frank, and C. H. Busch, Kenosha, Wis., assignors to Simmons Company, New York, N. Y. Tank support for hospital bedsteads. 1,704,979; Mar. 12.
- Kusterle, Frank, and W. A. Vollmer, Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Adjustable arm support for bed springs. 1,726,707; Sept. 3.
- Kutscheid, John J., Chicago, Ill. Blowtorch mounting. 1,696,916; Jan. 1.
- Kutscher, Frank J., assignor to F. & P. Heel Holder Company, Dallas, Tex. Shoe-heel holder. 1,724,355; Aug. 13.
- Kutter, Herman L., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper-making machinery. 1,709,026; Apr. 16.
- Kutter, Herman L., Hamilton, Ohio, assignor of one-half to W. D. Randall, Cincinnati, Ohio. Paper machinery. 1,721,699; July 23.
- Kutter, Herman L., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper-making machine. 1,729,350; Sept. 24.
- Kutter, Herman L., assignor to The Black-Clawson Company, Hamilton, Ohio. Roll balancing. 1,733,378; Oct. 29.
- Kuttner, firm Fr. (See Wagner, Albert, assignor.)
- Küttner, Hugo, Dresden, assignor to the firm Fr. Küttner Aktiengesellschaft, Pirna-on-the-Elbe, Germany. Treating cakes of artificial silk manufactured by the can spinning process. 1,708,583; Apr. 9.
- Kutz, Ellsworth M., jr. (See Kutz, Ellsworth M., sr., W. S. S., and E. M., jr.)
- Kutz, Ellsworth M., sr., W. S. S., and E. M., jr., Weavertown, Pa. Silo attachment. 1,740,250; Dec. 17.
- Kutz, Forest, et al. (See Kellogg, Alfred E., assignor.)
- Kutz, Winfield S. S. (See Kutz, Ellsworth M., sr., W. S. S., and E. M., jr.)
- Kuwata, Fukutaro. (See Kamei, T., and Kuwata.)
- Kux, Albert S., Chicago, Ill. Machine for manufacturing cheese. 1,713,537; May 21.
- Kux, Albert S., Chicago, Ill. Cleaning device. 1,737,855; Dec. 3.
- Kuylenstierna, Johan K., Stockholm, Sweden, Roll or ball bearings. 1,728,999; Sept. 24.
- Kwartin, Bernard, Philadelphia, Pa. Apparatus for and method of recording and reproducing sounds. 1,708,476; Apr. 9.
- Kwiatkowski, Jan, Chodziez, and S. Skapski, Ostrowki, Poland. Automatic railroad-crossing gate and signal. 1,697,728; Jan. 1.
- Kwik-Mix Concrete Mixer Co. (See Gilson, Michael, assignor.)
- Kyber, Wladimir, Berlin-Steglitz, Germany. Production of phosphorus and fusion cement from natural phosphates. 1,723,791; Aug. 6.
- Kyle, Joseph M., Greene, Iowa. Device for applying liquids to animals. 1,710,314; Apr. 23.
- Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Insulator rack. 1,697,317; Jan. 1.
- Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Secondary rack. 1,706,237; Mar. 19.
- Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Insulator. 1,709,477; Apr. 16.
- Kyle, William D., assignor to Line Material Company, South Milwaukee, Wis. Insulator mounting. 1,715,507; June 4.
- Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Insulator. 1,720,181; July 9.
- Kyle, William D., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Insulator. 1,736,043; Nov. 19.
- Kyle, William D., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Screw insulator. 1,736,044; Nov. 19.
- Kyler, Albert H., Westminster, Md. Boxing or casing machine. 1,711,098; Apr. 30.
- Kyrides, Lucas P., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Alkali-metal alcoholates. 1,712,830; May 14.
- Kyrides, Lucas P., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Production of side-chain halogen substitution products of aromatic compounds. 1,733,268; Oct. 29.
- Kyser, Ralph Y. and S., Lowell, Mich. Picking tool. 1,703,112; Feb. 26.
- Kyser, Smith. (See Kyser, Ralph Y. and S.)
- Kysor, Walter A., Allegan, Mich. Combined muffler and heater. 1,706,979; Mar. 26.
- L. G. S. Devices Corporation. (See Brownlee, Dalmar T., assignor.)
- L. G. S. Devices Corporation. (See Starkey, William C., assignor.)
- L. T. N. Manufacturing & Development System, The. (See Newitt, F. T. La Plant, and Turner, assignors.)
- Laas, Hans F., St. Paul, Minn. Automatic controller for boiler water supplies. 1,718,241; June 25.
- Labadie, Harry H., and B. B. Beers; said Beers assignor to Knickerbocker Case Company, Chicago, Ill. Sample case. 1,703,627; Feb. 26.
- La Bar, Bert G., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse holder for portable meters. 1,740,466; Dec. 24.
- La Bare, Theodore C., Seattle, Wash. Crosscut-saw jointer. 1,741,850; Dec. 31.
- Labarre, Robert V., assignor to G. Ward, Los Angeles, Calif. Envelope feeder for typewriters. 1,718,467; June 25.
- Labiko Wegweiser G. m. b. H. (See Labin, Joseph, assignor.)
- Labin, Joseph, assignor to the firm Labiko Wegweiser G. m. b. H., Hamburg, Germany. Street lantern. 1,730,737; Oct. 8.
- La Bombard, Leon E., West Newton, and M. H. Sidebotham, Newtonville, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Garment envelope. 1,698,549; Jan. 8.
- La Bombard, Leon E., West Newton, and M. H. Sidebotham, Newtonville, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making garment containers. 1,698,550; Jan. 8.
- La Bombard, Leon E., West Newton, and M. H. Sidebotham, Newtonville, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Paper pail and handle therefor. 1,707,528; Apr. 2.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Feeder for sheet material. 1,717,695; June 18.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Method and machine for assembling and packaging articles. 1,717,696; June 18.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Web-feed-control mechanism. 1,727,208; Sept. 3.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Automatic card-cutting machine. 1,734,385; Nov. 5.
- La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Garment package. 1,734,386; Nov. 5.
- Labombarde, Elie W., Nashua, N. H. Paper box. 1,711,991; May 7.
- Labombarde, Harold S., Nashua, N. H. Glue pot for paper-folding machines. 1,711,992; May 7.
- Labombarde, Harold S., Nashua, N. H. Envelope machine. 1,736,407; Nov. 19.
- Laborda, Richard, Brooklyn, N. Y. Climbing device. 1,731,052; Oct. 8.
- La Borie, Louis, Rochester, N. Y. Golf-ball marker. 1,710,738; Apr. 30.
- Labram, Alfred, Osterley Park, England, assignor to Whiting-Patterson Co., Inc. Cover paper or the like. Des. 78,106; Mar. 26.
- Labram, Alfred, Osterley Park, England, assignor to Whiting-Patterson Co., Inc. Cover paper or the like. Des. 78,107; Mar. 26.
- La Brecque, Harvey A., Detroit, Mich. Fastener. 1,724,288; Aug. 13.



- La Brie, Ludger E., assignor to Bendix Brake Company, South Bend, Ind. Brake-applying means. 1,705,191; Mar. 12.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,710,364; Apr. 23.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake control. 1,711,118; Apr. 30.
- La Brie, Ludger E., assignor to Bendix Brake Company, South Bend, Ind. Brake equalizer. 1,727,994; Sept. 10.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,728,618; Sept. 17.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,731,384; Oct. 15.
- La Brie, Ludger E., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,737,013; Nov. 26.
- La Burthe, Pierre H. C., Nemours, assignor to Société "Quartz L Silice," Paris, France. Manufacture of articles of silica glass by addition of material. 1,724,844; Aug. 13.
- Labus, Otto A., Wisconsin Rapids, Wis. Compressor. 1,718,296; June 25.
- Lacault, Robert E., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Radio receiving system. 1,740,946; Dec. 24.
- Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)
- Lacerda, Harry A., Watervliet, N. Y. Boiler maker's tool. 1,707,124; Mar. 26.
- Lacey, Cyril E., Birmingham, England. Foot-arch support. 1,702,012; Feb. 12.
- Lacey, Ernest G., Collingwood, Australia. Drilling and mortising machine. 1,729,000; Sept. 24.
- Lacey, Philip H. (See Lacey, Thomas A. and P. H.)
- Lacey, Thomas A., Somerville, Mass., and P. H. Lacey, Troy, Ohio. Automatic bobbin cleaner. 1,737,969; Dec. 3.
- Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,697,013; Jan. 1.
- Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,699,398; Jan. 15.
- Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,699,399; Jan. 15.
- Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,706,789; Mar. 26.
- Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,713,287; May 14.
- Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,713,288; May 14.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,707,404; Apr. 2.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Uniting parts of boots and shoes. 1,713,538; May 21.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-fastening machine. 1,720,046; July 9.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,729,169; Sept. 24.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,734,679; Nov. 5.
- La Chapelle, Fred N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,734,680; Nov. 5.
- Lachaze, Gaston C. L. G., Caluire, France. Thread or wire driving means for core-covering machines and the like. 1,731,426; Oct. 15.
- Lachin, Victor, New Orleans, La. Lathe. 1,738,436; Dec. 3.
- Lachman, Arthur, Berkeley, assignor to Richfield Oil Company of California, San Francisco, Calif. Refining mineral oils. 1,709,315; Apr. 16.
- Lachman, Arthur, Berkeley, assignor to Richfield Oil Company of California, San Francisco, Calif. Refining mineral oils. 1,712,960; May 14.
- Lachman, Laurence S., Forest Hills, and J. R. Tench, White Plains, N. Y., assignors to Bethlehem Steel Company. Grating. 1,706,892; Mar. 26.
- Lachman, Maurice, New York, N. Y. Girder. 1,741,423; Dec. 31.
- Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company. Welded and calked body and producing same. 1,736,539; Nov. 19.
- Lackey, John G. (See Gillett, F. B., and Lackey.)
- Lackey, Robert M. (See Markman, Simeon K., assignor.)
- Lackey, Robert M., Waterford, N. Y. Carry bundle strap. 1,722,052; July 23.
- Lackey, Robert M., Waterford, N. Y. Shopping bag. 1,741,527; Dec. 31.
- Laclede-Christy Clay Products Company. (See Atwood, Max W., assignor.)
- Laclede-Christy Clay Products Company. (See Lindsay, William H., assignor.)
- Laclede Steel Company. (See Akin, W. M., and Young, assignors.)
- Laclede Steel Company. (See Young, Lafayette, assignor.)
- Lacoste, Edna M. (See Lacoste, Patrick and E. M.)
- Lacoste, Patrick and E. M. Lacoste, San Antonio, Tex. Antiglare shield. 1,709,437; Apr. 16.
- Lacour, Lauritz U. (See Bullock, J., and Lacour.)
- La Crosse Knitting Company. (See Harrington, C. N., May, and Maxfield, assignors.)
- La Crosse Rubber Mills Co. (See Bott, E. S., and Funk, assignors.)
- L'Action à Distance et al. (See Chirol, Maurice, assignor.)
- Lacy, John B., Rocky Ford, Colo. Stereotyping apparatus. 1,718,566; June 25.
- Lacy, Phillip L., Los Angeles, Calif. Automatic backstop for motor vehicles. 1,717,232; June 11.
- Lacy, William A., Springfield, Mass. Floor polisher. 1,718,695; June 25.
- Ladd, Allston C., Los Angeles, Calif. Package container. 1,700,539; Jan. 29.
- Ladd, George T., Pittsburgh, Pa., assignor to Ladd Water Tube Boiler Company, New York, N. Y. Boiler furnace. 1,709,356; Apr. 16.
- Ladd, George T., Pittsburgh, Pa., assignor to Ladd Water Tube Boiler Company, New York, N. Y. Boiler furnace. 1,731,427; Oct. 15.
- Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Machine for drawing pipes from molds. 1,723,792; Aug. 6.
- Ladd, James B., Ardmore, Pa., assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Pipe-gripping mechanism. 1,726,672; Sept. 3.
- Ladd, Joseph O. (See Bonnell, William W., assignor.)
- Ladd Water Tube Boiler Company. (See Ladd, George T., assignor.)
- Ladeau, Edward M., Amsterdam, N. Y. Picker-stick lug-strap bearing. 1,716,178; June 4.
- Ladewig, Archie E., and G. F. Soelch, Waukesha, Wis., assignors, by mesne assignments, to The Creamery Package Mfg. Company, Chicago, Ill. Apparatus for washing bottles. 1,734,535; Nov. 5.
- Ladish, Adrian P., et al. (See Craig, Chester J., assignor.)
- Ladley, Samuel, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Internal-combustion engine. 1,731,385; Oct. 15.
- Ladner, Henry, Jersey City, N. J., assignor to American Telephone and Telegraph Company. Signaling and transmission circuits. 1,716,447; June 11.
- La Duke, Helen S., Iron Mountain, Mich. Egg-boiling cup. 1,736,122; Nov. 19.
- Laemmel, Charles A., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y. Forming cutter plates. 1,724,717; Aug. 13.
- Laesch, Fred W., assignor of one-third to G. W. Savory, Denver, Colo. Game board. 1,703,628; Feb. 26.
- Laeuffer, Jacob, Detroit, Mich. Brake-shoe filling and lining. 1,724,718; Aug. 13.
- Lafferty, Samuel M., and H. J. Burgwin, assignors to Burgwin-Herron Motor Company, Pittsburgh, Pa. Display device. 1,739,148; Dec. 10.
- Laffey, J. P., trustee. (See Moxham, Arthur J., assignor.)
- Laffey, William J., Chicago, Ill. Car retarder. 1,716,825; June 11.
- Lafaive, Joseph, La Chaleassiere St-Etienne, assignor to Société Anonyme des Etablissements Lefaive, La Chaleassiere St-Etienne, Loire, France. Automatic double headstock with reversing movement. 1,721,078; July 16.
- Lafont, Louis A. (See Sorrel, V., and Lafont.)
- La Fontaine, O. D., et al., trustees. (See Rightenour, Asa L., assignor.)
- La Force, Burdette D., Ottumwa, Iowa. Tonsil enucleator. 1,707,736; Apr. 2.
- Laforêt, Jean, Lime, France. Automatic cop-changing mechanism with oscillating loader magazine for looms. 1,708,840; Apr. 9.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,699,566; Jan. 22.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Method of and apparatus for forming glassware. 1,702,262; Feb. 19.
- La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,718,651; June 25.
- La France, Richard, assignor to Owens-Illinois Glass Company, Toledo, Ohio. Machine for forming glass articles. 1,739,845; Dec. 17.
- Laganas, George, Lowell, Mass. Shoe leveling and shaping machine. 1,709,728; Apr. 16.
- Laganas, George, Lowell, Mass. Shoe-sole-attaching machine. 1,714,380; May 21.
- Lagergren, Gustav M. (See Cox, W. G., and Lagergren.)
- Lagus, Knut R. J., Abo, Finland. Cutter for bark-removing machines and the like. 1,728,570; Sept. 17.
- Lagus, Knut R. J., Abo, Finland. Bark-removing machine. 1,736,924; Nov. 26.
- La Hatte, Cicero, Vicksburg, Miss. Store furniture. 1,712,890; May 14.
- Laher, Frank J., Oakland, Calif. Automobile bumper. 1,712,706; May 14.



- Lahey, Frank T., Akron, Ohio. Fibrous product and making the same. 1,726,905; Sept. 3.
- La Hodny, William, assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Mirror. 1,698,307; Jan. 8.
- La Hodny, William, assignor to Standard Mirror Company, Inc., Buffalo, N. Y. Rear-view mirror for automobiles. 1,724,029; Aug. 13.
- Lahr, Harry I., and L. D. Helwig, assignors to The Ohio Match Company, Wadsworth, Ohio. Elevator or transfer device. 1,733,667; Oct. 29.
- Lahti, Wilho E., Berkeley, Calif. Music-leaf turner. 1,730,277; Oct. 1.
- Laib, William L., Chicago, Ill. Lamp hood for electric lamps. 1,739,679; Dec. 17.
- Laidlaw, James M., Los Angeles, Calif. Shielded file. 1,704,007; Mar. 5.
- Laidlaw, Robert A., assignor of one-fourth to L. T. Wright and one-fourth to J. T. Haile, San Antonio, Tex. Building construction. 1,705,409; Mar. 12.
- Laidlaw, Robert A., assignor of one-fourth to L. T. Wright and one-fourth to J. T. Haile, San Antonio, Tex. Burial vault. 1,705,410; Mar. 12.
- Laine, Clarence G., Evansville, Ind., assignor of one-half to A. G. Millerlei, Vanderburgh County, Ind. Cigarette-dispensing case. 1,735,253; Nov. 12.
- Laing, Bryan. (See Nielsen, H., and Laing.)
- Laing, James S., New York, N. Y. Safety device. 1,730,278; Oct. 1.
- Laing, Lawrence, Marshall, Mich. Mixer. 1,718,745; June 25.
- Lair, Robert, Kingston, Wash. Leveling mechanism. 1,697,391; Jan. 1.
- Laird, Wesley E. (See Wagner, R. E., and Laird.)
- Lairy, Ica C., Logansport, Ind. Door hanger. 1,733,887; Oct. 29.
- Laist, Alex, Helena, Mont., assignor to Anaconda Copper Mining Company. Tuyere for slag-blowing furnaces. 1,729,075; Sept. 24.
- Laist, Frederick, and F. F. Frick, Anaconda, Mont. Anode for the electrolysis of copper solutions. 1,697,771; Jan. 1.
- La Joie, Hubert J., Maplewood, N. J., assignor to Auto Pneumatic Action Company, New York, N. Y. Combination player piano, radio, and phonograph. 1,739,680; Dec. 17.
- La Jone, Nicholas, assignor to Inland Rubber Company, Chicago, Ill. Automobile tire. Des. 77,644; Feb. 5.
- La Jone, Nicholas, assignor to Inland Rubber Company, Chicago, Ill. Automobile tire. Des. 78,980; July 16.
- Lake, Allan F., Oakland, Calif. Alternating-current relay. 1,729,222; Sept. 24.
- Lake, Arthur E., Bishop's Stortford, England. Transport device for damaged vehicles. 1,739,364; Dec. 10.
- Lake, Bertus A., Big Prairie, Ohio. Self-heating sadiron. 1,708,312; Apr. 9.
- Lake, Bertus A., Big Prairie, Ohio. Sadiron. 1,708,366; Apr. 9.
- Lake, Bertus A., Big Prairie, Ohio. Sadiron. 1,712,004; May 7.
- Lake, David, Cleveland, Ohio, assignor to Automatic Clutch & Machine Co., Inc., Rochester, N. Y. Power-transmitting apparatus. Re17,444; Sept. 24.
- Lake, Elsmore D., Oakland, Calif. Patterned paper and making the same. 1,711,953; May 7.
- Lake Erie Chemical Company, The. (See Macy, Alfred J., assignor.)
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Recording dynamometer and measuring load variations. 1,739,724; Dec. 17.
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Swabbing method for initiating gas lift. 1,740,100; Dec. 17.
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Simultaneous balanced-pressure and injection method for initiating gas lift in oil wells. 1,740,101; Dec. 17.
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Displacing dead casing oil for initiating gas lift in oil wells. 1,740,102; Dec. 17.
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Alternate pressure-balancing method for initiating gas lift in oil wells. 1,740,103; Dec. 17.
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Aeration method for establishing gas lift in oil wells. 1,740,104; Dec. 17.
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Rock-over method of establishing gas lift operations in oil wells. 1,740,105; Dec. 17.
- Lake, Francis W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Centralized header system for gas and air lift operations. 1,740,106; Dec. 17.
- Lake, Harold, Oshkosh, Nebr. Wire-fence staple. 1,736,707; Nov. 19.
- Lake, James, sr., Brooklyn, N. Y. Hat-pressing machine. 1,710,226; Apr. 23.
- Lake, James Y. (See Ballou, F. B., and Lake.)
- Lake, John W., assignor to Boyd-Welsh Shoe Company, St. Louis, Mo. Apparel shoe. 1,715,090; May 28.
- Lake, Robert H., U. S. Navy, Hampton Roads, Va. Stretcher for uniform-cap covers. 1,703,398; Feb. 26.
- Lake, Simon, Milford, Conn. Roof or the like structure. 1,723,185; Aug. 6.
- Lake, William B., Braintree, England. Lifting jack. 1,713,906; May 21.
- Lake, William B., Braintree, England. Lifting jack. 1,713,907; May 21.
- Lake, William H., Brooklyn, N. Y. Luminous sign. 1,711,850; May 7.
- Lake, William S. (See McLaughlin, Milton P., assignor.)
- Lakenbach, Daniel, New York, N. Y. Hair-waving means. 1,716,067; June 4.
- Lakewood Engineering Company, The. (See Carr, Edward G., assignor.)
- Lakin, J. Harry, assignor to Lakin Manufacturing Company, Inc., Pittsburgh, Pa. Water cooler. 1,701,977; Feb. 12.
- Lakin, J. Harry, assignor to Lakin Manufacturing Company, Inc., Pittsburgh, Pa. Water cooler. 1,701,978; Feb. 12.
- Lakin Manufacturing Company. (See Lakin, J. Harry, assignor.)
- Lalance & Grosjean Mfg. Co. (See Burvenick, Benjamin, assignor.)
- Lalanne, Peter, and H. M. Armstrong, assignors to W. C. Brandt, Seattle, Wash. Wire gripper. 1,733,994; Oct. 29.
- Lalli, Nicholas, Philadelphia, Pa. Sound-reproducing amplifier. 1,736,606; Nov. 19.
- Lally, John, Great Neck, N. Y. Fireproof building construction. 1,703,113; Feb. 26.
- La Londe, John H., Jacksonville, Fla. Coupling. 1,702,943; Feb. 19.
- Lalonde, Oscar, Astoria, assignor of one-third to S. Hutter, New York, and one-third to H. Odes, Brooklyn, N. Y. Stopper for spring-operated rollers. 1,725,285; Aug. 20.
- Lalonde, William J., Ottawa, Ontario, Canada. Hose coupling. 1,736,923; Nov. 26.
- La Londe, William S. (See Christiansen, A. L., and La Londe.)
- Lalor Fuel Oil System Company, The. (See Lalor, James D., assignor.)
- Lalor, James D., assignor to The Lalor Fuel Oil System Company, Inc., Baltimore, Md. Apparatus for firing furnaces with fluent fuels. 1,731,310; Oct. 15.
- La Lux Manufacturing Company. (See Underwood, Western, assignor.)
- Lamagna, Louis, and A. Botta, New York, N. Y. Crossing gate. 1,712,441; May 7.
- Lamar, Charles, Brooklyn, N. Y. Cap for flasks or the like. 1,713,836; May 21.
- Lamar, Ralph F., Pueblo, Colo. Merry-go-round. 1,739,725; Dec. 17.
- Lamatsch, Frederick, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Pin-operating mechanism for folding cylinders. 1,713,837; May 21.
- Lamatsch, Frederick, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Plate clamp. 1,717,391; June 18.
- Lamb, Arthur B., trustee. (See Ernst, F. A., and Young, assignors.)
- Lamb, Arthur B., trustee. (See Hetherington, H. C., and Krase, assignors.)
- Lamb, Carl J., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reversible reduction gearing. 1,722,302; July 30.
- Lamb, Carl J., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,734,216; Nov. 5.
- Lamb, Charles. (See Lamb, C., and Radford, assignors.)
- Lamb, Charles C., Chicago, Ill. Laundering machine and driving and stabilizing mechanism therefor. 1,710,095; Apr. 23.
- Lamb, Charles, and D. R. Radford, assignors, by mesne assignments, to C. Lamb, Los Angeles, Calif. Double cross-expansion packing. 1,706,031; Mar. 19.
- Lamb, David C., assignor of one-half to C. Mutschler, Napanee, Ind. Portable adjustable screen. 1,700,637; Jan. 29.
- Lamb, Herbert W., and F. S. Ougheltree, Adrian, Mich. Printing machine. 1,704,749; Mar. 12.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Soldering iron. 1,701,858; Feb. 12.
- Lamb, Lawrence S. (See Grochn, O. J., and Lamb.)
- Lamb, Ward D., Le Mars, Iowa. Can opener. 1,728,569; Sept. 17.
- Lambe, George C., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Center-bearing plate for articulated car units. 1,711,233; Apr. 30.
- Lambelet, Carl. (See Fleischer, P. W., and Lambelet.)
- Lambert, Albert L., Narberth Borough, Pa., assignor to Heintz Manufacturing Company. Method of and apparatus for preventing the condensation of moisture on the exterior surface of refrigerator cabinets. 1,705,928; Mar. 19.
- Lambert, Albert L., Narberth, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Forming axle housings. 1,715,135; May 28.
- Lambert, Albert L., assignor to Heintz Manufacturing Company, Philadelphia, Pa. Fan. 1,724,604; Aug. 13.
- Lambert, Bernice E., Columbus, Ohio. Sealing means for burial caskets. 1,732,095; Oct. 15.
- Lambert, Chandley W., Cleveland, Ohio. Lineman's knife. 1,728,613; Sept. 17.



- Lambert, Charles F. (See Blaskewitz, W., Overly, Lambert, and Ironside.)
- Lambert, Clara B., Pasadena, Calif. Pie-crust flaker. 1,724,356; Aug. 13.
- Lambert, Clara B., Pasadena, Calif. Light for telephone stands. 1,727,469; Sept. 10.
- Lambert, Clara B., Pasadena, Calif. Toilet-tissue-paper mitt. 1,731,340; Oct. 15.
- Lambert, Earl E. (See Johnson, Harvey L., assignor.)
- Lambert, Harry E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working machine. 1,697,873; Jan. 8.
- Lambert, Helen H., executrix. (See Lambert, Henry M.)
- Lambert, Henry M., deceased, Portland, Oreg.; H. H. Lambert, executrix, assignor to The Lambert Tire and Rubber Company, Barberton, Ohio. Tire mold. 1,733,064; Oct. 22.
- Lambert, Homer P., Anderson, Ind. Rotary-disk file. 1,729,881; Oct. 1.
- Lambert, Homer P., Anderson, Ind. Rotary file. 1,740,467; Dec. 24.
- Lambert, Leo J., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cutting machine. 1,740,251; Dec. 17.
- Lambert, Leo J., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine and method. 1,740,407; Dec. 17.
- Lambert, Leo J., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,740,411; Dec. 17.
- Lambert, Mae E., Dubois, Wyo. Coat. Des. 79,559; Oct. 8.
- Lambert, Max K., and C. W. Keiver, assignors to Star Mattress Company, Oakland, Calif. Stuffing for mattresses and preparing same. 1,730,615; Oct. 8.
- Lambert, Pierre, L. J. B., Vanves, France. Steering wheel. 1,720,737; July 16.
- Lambert Tire & Rubber Co. (See Brundage, James W., assignor.)
- Lambert Tire and Rubber Company, The. (See Lambert, Henry M., assignor.)
- Lambert, William A., South Charleston, W. Va. Portable elevating scaffold. 1,715,200; May 28.
- Lambert, William D., Waukegan, Ill. Billboard. Des. 77,696; Feb. 12.
- Lambie, James M. (See Ross, D. W., and Lambie.)
- Lambie, James M., and D. W. Ross, Washington, Pa. Refractory. 1,712,005; May 7.
- Laublín, Alexandre, Paris, France. Diaphragm-pump. 1,719,060; July 2.
- Lanco Products Company. (See Date, Paul, assignor.)
- La Measure Brothers. (See La Measure, Laurence J., assignor.)
- La Measure, Laurence J., Detroit, Mich., assignor to La Measure Brothers, Detroit, Mich. Garment-cleaning appliance. 1,710,932; Apr. 30.
- Lamella Roof Syndicate, Inc. (See Bower, Joseph H. W., assignor.)
- La Mere, Frank J. (See Sardeson, R., and La Mere.)
- Laminated Shim Company. (See Darrach, Bradford, jr., assignor.)
- Lamkey, William A., Paris, France. Target towing and releasing device. 1,703,400; Feb. 26.
- Lamme, Benjamin G., Pittsburgh, and L. J. Hibbard, Wilkensburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control system. 1,729,882; Oct. 1.
- Lammers, Charles N. (See Potter, T. W., McNamara, Lammers, and McLavy.)
- Lammert, Ferdinand E., Chicago, Ill. Gas purifier. 1,709,530; Apr. 16.
- Lamneck, W. E., Company, The. (See Holub, Charles J., assignor.)
- Lamons, Charles P., Chickasha, Okla. Density regulator for seed rolls on linters. 1,741,636; Dec. 31.
- La Mont, Artemus L., Fredericktown, Mo. Vibrator for ore screens. 1,741,528; Dec. 31.
- La Mont Corporation. (See La Mont, W. D., and Ernst, assignors.)
- Lamont, Dallas R. (See Hantzsch, Ralph E., assignor.)
- Lamont, Dallas R., Brooklyn, assignor to Industrial Spray-Drying Corporation, New York, N. Y. Controlling characteristics of spray-processed products. 1,734,260; Nov. 5.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Side-bearing support for truck bolsters. 1,705,575; Mar. 19.
- Lamont, John W. F., London, England. Aim-indicating device for small arms. 1,699,595; Jan. 22.
- La Mont, Walter D., Larchmont, N. Y., and A. F. Ernst, Passaic, N. J., assignors to La Mont Corporation, New York, N. Y. Apparatus for superheating steam. 1,725,399; Aug. 20.
- La Montagne, Patrick P., assignor to Pope Machine Company, Kankakee, Ill. Stocking. Des. 78,636; May 28.
- Lamorte, Vito. (See Di Bensi, T., and Lamorte.)
- La Motte, Ross G. (See Mayer, H. H., and La Motte.)
- Lamour, Charles. (See Hoffman, F., and Lamour.)
- Lamoureux, Phillip J., Marinette, Wis. Slice for paper-making machines. 1,726,440; Aug. 27.
- Lampe, Henry C., St. Louis, Mo. Monument. Des. 79,316; Aug. 27.
- Lampe, Thorwald P., Washington, D. C. Parallelogram-type pantograph. 1,707,914; Apr. 2.
- Lampen- und Metallwarenfabriken R. Ditmar-Gebrüder, Brunner A. G. (See Doman, Aladár, assignor.)
- Lampert, Henry H., Chicago, Ill. Form clamp. 1,699,503; Jan. 15.
- Lampert, Henry H., Chicago, Ill. Wall tie. 1,709,988; Apr. 23.
- Lampert, Henry H., Chicago, Ill. Wall tie. 1,725,200; Aug. 20.
- Lampferhoff, Julius, Paris, France. Forming ceramic tiles, plates, or the like. 1,719,772; July 2.
- Lamplota, Hubert, Brno, Czechoslovakia. Coffee percolator. 1,723,186; Aug. 6.
- Lampman, John A., Spencer, Nebr. Device for controlling shields. 1,699,741; Jan. 22.
- Lampo, Lawrence B., et al. (See Theriot, Charles, assignor.)
- Lamport, Edward J., Chicago, Ill. High or low pressure flash boiler. 1,739,401; Dec. 10.
- Lamson Company, The. (See Amory, Robert, assignor.)
- Lamson Company, The. (See Cowley, James T., assignor.)
- Lamson Company, The. (See Hildreth, William O., assignor.)
- Lamson Company, The. (See Taisey, Fred R., assignor.)
- Lamson & Sessions Company, The. (See Smith, James W., assignor.)
- Lamy, Edward J. (See Dreyer, F., and Lamy.)
- Lancaster Asphalt, Inc. (See Robinson, Thomas, assignor.)
- Lancaster, Carl B., Alameda, Calif. Luminescent tube. 1,721,700; July 23.
- Lancaster, George W., Richmond, Va. Window construction. 1,727,470; Sept. 10.
- Lancaster, Harry V., Louisville, Ky., assignor to Chattanooga Implement & Mfg. Co., Chattanooga, Tenn. Grate basket. Des. 78,108; Mar. 26.
- Lancaster, Harry V., Louisville, Ky., assignor to Chattanooga Implement & Mfg. Co., Chattanooga, Tenn. Des. 78,109; Mar. 26.
- Lancaster Iron Works, Inc. (See Luce, Grafton E., assignor.)
- Lancaster, John T., Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. 1,697,982; Jan. 8.
- Lancaster, John T., Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over mechanism. 1,697,983; Jan. 8.
- Lancaster, Orville W., South Whitley, Ind. Foot brake for railway cars. 1,739,365; Dec. 10.
- Lancaster, Thomas H., Newport, R. I. Device for setting saw teeth or the like. 1,718,696; June 25.
- Lancellotte, Anthony, Pittsburgh, Pa. Car-switching apparatus. 1,697,922; Jan. 8.
- Lancet, Samuel, Brooklyn, assignor to Cosmopolitan Warehouses, Inc., New York, N. Y. Bottle. Des. 78,110; Mar. 26.
- Lancette, César J. M., Paris, France. Covering roads with reinforced concrete. 1,715,766; June 4.
- Lanchester, Frederick W. (See Needle, G., and Lanchester.)
- Lanchester, Frederick W., Moseley, Birmingham, England. Armature of electro motors and generators. 1,724,290; Aug. 13.
- Lanchester, Frederick W., London, assignor to Lanchester's Laboratories Limited, Coventry, England. Brake mechanism. 1,699,896; Jan. 22.
- Lanchester's Laboratories Limited. (See Lanchester, Frederick W., assignor.)
- Lancia, Vincenzo, Turin, Italy. Spar for vehicle frames. 1,724,845; Aug. 13.
- Lancs, S. Forry. (See Katz, John A., assignor.)
- Lancronen, Marcel M. E., Paris, France. Ferro-concrete flooring members. 1,729,001; Sept. 24.
- Land, Charles H., Detroit, Mich. Vehicle brake. 1,729,391; Sept. 24.
- Land, Charles W., Brighton, Victoria, Australia. Visible-index-card filing device. 1,741,467; Dec. 31.
- Landau, Robert, Vienna, Austria. Cap-shaped contrivance for closing vessels or receptacles. 1,722,637; July 30.
- Landaw, Oak, assignor to Mutschler Brothers Company, Nappanee, Ind. Kitchen cabinet. 1,735,119; Nov. 12.
- Landberg, Swan E., Seattle, Wash. Rowlock. 1,721,665; July 23.
- Landecker, Max. (See Homberg, F., and Landecker.)
- Landecker, Max, Barmen, Germany, assignor, by mesne assignments, to American Nuplex Corporation, New York, N. Y. Adhesive and plastic mass and method of preparing the same. 1,725,805; Aug. 27.
- Landeen, Arvid G., Caldwell, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Space discharge amplifier system. 1,722,099; July 23.
- Landell, Coates E. (See Kiwi, Walter, assignor.)
- Landenberger, Henry W., and E. Cannon, assignor to American Fluid Motors Company, Philadelphia, Pa. Fluid pump. 1,738,375; Dec. 3.
- Lander, Chesley A., Madison, S. Dak. Animal trap. 1,733,350; Oct. 29.
- Lander, James L., and G. N. White, Oakland, Calif. Strop-boning paste. 1,730,773; Oct. 8.
- Landers, Frary & Clark. (See Curtiss, George E., assignor.)
- Landers, Frary & Clark. (See Lamb, Joseph P., assignor.)
- Landers, Frary & Clark. (See Mau, Edward A., assignor.)
- Landers, Frary & Clark. (See Smith, Charles F., assignor.)
- Landers, Frary & Clark. (See Warner, Alonzo A., assignor.)



- Landes, Ruth E., New York, N. Y. Sanitary milk-bottle cover. 1,733,807; Oct. 29.
- Landgraf, Frederick K. (See Greenslade, G. R., Landgraf, and Flannery.)
- Landgraf, Frederick K., Crafton, and E. S. Fitz Simmons, assignors to Flannery Bolt Company, Pittsburgh, Pa. Pat. 1,709,729; Apr. 16.
- Landgraf, Jacob T., assignor to American Steel Products Co., Macomb, Ill. Hooded brooder stove. 1,705,773; Mar. 19.
- Landgraf, Jacob T., assignor to American Steel Products Co., Macomb, Ill. Thermostatic oil-control valve. 1,733,883; Oct. 29.
- Landi, Michele. (See Tocco, L., and Landi.)
- Landin, Fritz. (See Otterstrom, A. E., and Landin.)
- Landine, Peter N., Milford, Conn. Windshield. 1,716,858; June 11.
- Landini, Adelmo, Genoa, Italy. Elastic globe map of the world. 1,740,927; Dec. 24.
- Landis & Gyr A.-G. (See Beusch, Willi, assignor.)
- Landis & Gyr, A.-G. (See Moos, Paul, assignor.)
- Landis & Gyr A.-G. (See Pudelfo, Riccard, assignor.)
- Landis & Gyr, A.-G. (See Schnurrenberger, Heinrich, assignor.)
- Landis & Gyr, A.-G. (See Züger, Julius, assignor.)
- Landis & Gyr S. A. (See Peter, Adolf, assignor.)
- Landis Machine Company. (See Newman, Samuel F., assignor.)
- Landis Machine Company. (See Newman, S. F., and Harper, assignors.)
- Landis Machine Company. (See Shearer, Harry T., assignor.)
- Landis, Mark H., Waynesboro, Pa. Emergency lighting system. 1,710,542; Apr. 23.
- Landis, Omar K., Lancaster, Pa. Cable fastening. 1,732,053; Oct. 15.
- Landis, Omar K., Lancaster, Pa. Cable-fastening device. 1,732,054; Oct. 15.
- Landis Tool Company. (See Balsiger, Harold E., assignor.)
- Landis Tool Company. (See Neady, Scott H., assignor.)
- Landis Tool Co., The. (See Ott, Conrad L., assignor.)
- Landis Tool Company. (See Schmidt, J. J., and Steiner, assignors.)
- Landis Tool Company. (See Steiner, Amos P., assignor.)
- Landis Tool Company. (See Stoner, Paul, assignor.)
- Lando, Sebastiano, Chicago, Ill. Vending machine. 1,724,765; Aug. 13.
- Landon, Archer A., Buffalo, N. Y. Ramming machine. 1,711,954; May 7.
- Landon, Charles H., Dallas, Tex., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing bushing. 1,732,273; Oct. 22.
- Landon, Vernon D., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio receiving system. 1,702,445; Feb. 19.
- Landon, Vernon D., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Variable condenser. 1,730,853; Oct. 8.
- Landrum, John P., assignor of one-half to P. R. McCormack, Birmingham, Ala. Internal-combustion engine. 1,729,392; Sept. 24.
- Landry, Avery, et al. (See Gillespie, Robert J., assignor.)
- Landsiedel, Walter W., Norwood, Ohio, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Adding and listing machine. 1,720,082; July 9.
- Landsiedel, Walter W., Cincinnati, Ohio, assignor to Remington Rand Inc., Tonawanda, N. Y. Automatic blank-operation-controlling device. 1,724,880; Aug. 13.
- Landsmann, Kurt. (See Andorff, F., and Landsmann.)
- Landsmann, Kurt, Mannheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Alternating-current motor. 1,729,618; Oct. 1.
- Landt, Gustave E., and W. H. Adams, Jr., Norristown, Pa., assignors, by mesne assignments, to Continental Diamond Fibre Company, Newark, Del. Preparing a synthetic resin varnish. 1,731,071; Oct. 8.
- Landt, Gustave E., and W. H. Adams, Jr., Norristown, Pa., assignors, by mesne assignments, to Continental Diamond Fibre Company, Newark, Del. Preparing a synthetic resin varnish. 1,731,072; Oct. 8.
- Landucci, Alfred, Paris, France, assignor, by mesne assignments, to Du Pont-Pathe Film Manufacturing Corporation, Wilmington, Del. Manufacture of threads, filaments, bands or films of a polished and transparent nature, composed of plastic substances. 1,713,289; May 14.
- Landwehr, Richard F. (See Kasdan, N., and Landwehr.)
- Lane, Abbot A. (See Collins, P., and Lane.)
- Lane, Albert M. (See Lyman, K. E., and Lane.)
- Lane, Alfred M. (See Lyman, K. E., McMullen, and Lane.)
- Lane, Alfred M., St. Louis, Mo. Casement window. 1,726,186; Aug. 27.
- Lane, Alfred M., assignor to General Weatherstrip Company, St. Louis, Mo. Metal weather strip. 1,741,781; Dec. 31.
- Lane, Arthur, Middletown, Ohio. Electric signaling apparatus. 1,733,543; Oct. 29.
- Lane, Arthur J., Houston, assignor to Lane Vegetable Spray Company, Dallas, Tex. Vegetable spray. Re17,407; Aug. 20.
- Lane, Clarence E. (See Smythe, E. H., and Lane.)
- Lane, Clarence E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound radiator. 1,722,805; July 30.
- Lane, Clark W., assignor of one-half to J. Benton, Tacoma, Wash. Cinch. 1,697,833; Jan. 1.
- Lane, Edwin, et al. (See Hamilton, Charles E., assignor.)
- Lane, Elmer E., Danvers, assignor to H. H. Beckwith, Brookline, Mass. Feeding mechanism. 1,701,483; Feb. 5.
- Lane, Elmer E., Danvers, assignor to H. H. Beckwith, Brookline, Mass. Skiving machine. 1,713,540; May 21.
- Lane, Fletcher, assignor of one-third to Elk Manufacturing Company and one-third to J. D. Garnett, Elk City, Okla. Burr extractor and cotton cleaner. 1,709,531; Apr. 16.
- Lane, Fletcher, assignor of one-third to Elk Manufacturing Company and one-third to J. D. Garnett, Elk City, Okla. Burr extractor and cotton cleaner. 1,724,943; Aug. 20.
- Lane, Frank, Mansfield, Ohio. Sectional pole. 1,702,165; Feb. 12.
- Lane, Franklin L., assignor to Yates-American Machine Company, Beloit, Wis. Cutter head. 1,722,303; July 30.
- Lane, George W., Providence, R. I. Guard for foot presses. 1,736,708; Nov. 19.
- Lane, James M., Long Branch, N. J. Insect catcher. 1,722,150; July 23.
- Lane, Louis, Habana, Cuba. Securing means for corrugated building sheets. 1,711,415; Apr. 30.
- Lane, Louis, Habana, Cuba. Corrugated roofing and building sheet. 1,732,368; Oct. 22.
- Lane Manufacturing Company. (See Wallstrom, George P., assignor.)
- Lane, Moses H., Kalamazoo, Mich. Display stand. 1,713,908; May 21.
- Lane, Munson H. (See Mackenzie, Franklin H., assignor.)
- Lane, Noah F., Arkansas City, Kans. Side bearing for railway cars. 1,722,668; July 30.
- Lane, Robert S., Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind. Removal of wax from hydrocarbon oils. 1,706,120; Mar. 19.
- Lane Vegetable Spray Company. (See Lane, Arthur J., assignor.)
- Lane, Virgil M. (See Fehringer, C. E., and Lane.)
- Lane, William E., Auburn, N. Y. Liquid composition for and method of treating leather. 1,720,223; July 9.
- Lane, William R., East Orange, N. J., assignor to Baxter-Lane Paper Corporation, New York, N. Y. Reel for fabrics. 1,710,704; Apr. 30.
- Lanes, Nathan, New York, N. Y. Lock. 1,700,135; Jan. 29.
- Lanes, Nathan, New York, N. Y. Pressure filter for liquids. 1,735,007; Nov. 12.
- Laney, George O., Hamburg, Okla. Churn. 1,732,974; Oct. 22.
- Lang, Albert S., Cudahy, Wis. Burner protector. 1,720,909; July 16.
- Lang, Carl J., Olean, N. Y. Humidor for films. 1,726,573; Sept. 3.
- Lang, Charles E., Corsicana, assignor of one-fourth to J. A. Muncy and one-fourth to P. G. Midgett, Dallas, Tex. Drill bit for boring wells. 1,739,846; Dec. 17.
- Lang, Edward G., Fort Worth, Tex. Vegetation, snow, and ice destroyer. 1,698,196; Jan. 8.
- Lang, Edward G., Fort Worth, Tex. Vegetation, snow, and ice destroyer. 1,709,270; Apr. 16.
- Lang, Franz, Stuttgart, Germany, assignor to Aero Aktiengesellschaft, Kussnacht-on-the-Rigi, Switzerland. Oil motor. 1,732,901; Oct. 22.
- Lang, Fred N., Chicago, Ill. Loose-leaf book-binding mechanism. 1,732,444; Oct. 22.
- Lang, Fred N., Los Angeles, Calif. Scrapbook and leaf unit therefor. 1,737,052; Nov. 26.
- Lang, Glen I., et al. (See Jackson, M. M., Walgren, and Britton.)
- Lang, Guy A., San Dimas, Calif. Combination child's chair. 1,739,366; Dec. 10.
- Lang, Harry O., Pontiac, Mich. Removing enamel. 1,714,879; May 28.
- Lang, Harry O., and J. McGeorge, Pontiac, assignors to General Motors Corporation, Detroit, Mich. Shaft-treating apparatus. 1,697,820; Jan. 1.
- Lang, Henry T., assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Floor-polishing attachment for vacuum cleaners. 1,713,184; May 14.
- Lang, Henry T., Cleveland Heights, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Floor polisher. 1,731,140; Oct. 8.
- Lang, Hermann. (See Pistor, G., Lang, and Suchy.)
- Lang, James S., Boston, Mass. Electric steam generator. 1,723,738; Aug. 6.
- Lang, Jesse O., and C. M. Barnett, Los Angeles, Calif. Display fixture. 1,700,740; Feb. 5.
- Lang, Martin H., Minneapolis, Minn. Cushion-filling machine. 1,724,030; Aug. 13.
- Lang, Niels, Lakewood, Ohio. Asymmetrical light reflector. 1,732,582; Oct. 22.
- Lang, Philip, Cedar Falls, Iowa. Operating elevator doors. 1,722,332; July 30.
- Lang, Victor A., assignor to Brunn and Company Inc., Buffalo, N. Y. Joint closure. 1,705,486; Mar. 19.
- Langa, Morris M., Philadelphia, Pa. Embroidery stitch. 1,718,156; June 18.
- Langbein, Edward H., Brooklyn, N. Y. Surgical snare. 1,722,474; July 30.
- Langbein, George, East Rutherford, N. J. Syringe piston holder. 1,703,427; Feb. 26.



- Langdon, Emil, San Francisco, Calif. Nonskid tire. 1,702,639; Feb. 19.
- Langdon Engineering Corporation. (See Langdon, Jesse D., assignor.)
- Langdon, Jesse D., Los Angeles, Calif. Counterliner for shoes. 1,711,851; May 7.
- Langdon, Jesse D., Los Angeles, Calif. Internal-combustion engine. 1,711,852; May 7.
- Langdon, Jesse D., assignor to Langdon Engineering Corporation, Los Angeles, Calif. Liquid-measuring valve. 1,711,234; Apr. 30.
- Langdon, Jesse D., assignor to Langdon Engineering Corporation, Los Angeles, Calif. Fluid-measuring valve. 1,711,235; Apr. 30.
- Langdon, Jesse D., assignor to Langdon Engineering Corporation, Los Angeles, Calif. Valve. 1,733,437; Dec. 3.
- Langdon, John J., Hartford, Conn. Carburetor. 1,718,652; June 25.
- Langdon, Robert S., assignor to Pacific Car and Foundry Company, Seattle, Wash. Steering mechanism for trailers. 1,733,544; Oct. 29.
- Lange, Berthold A., St. Louis, Mo. Egg crate. 1,697,318; Jan. 1.
- Lange, Berthold A., St. Louis, Mo. Box. 1,703,399; Feb. 26.
- Lange, Edwin C., and S. J. Nicholson, Cedar Point, assignors of one-third to C. F. Campbell, Emporia, Kans. Coin-operated lock. 1,705,981; Mar. 19.
- Lange, Edwin C., and S. J. Nicholson, Cedar Point, assignors of one-third to C. F. Campbell, Emporia, Kans. Seat for grandstands and the like. 1,712,388; May 7.
- Lange, Frederick G. E. (See Cannon, K. W., and Lange.)
- Lange, Fritz, Elberfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of depolymerization or degradation products of carbohydrates of high molecular weight. 1,714,656; May 28.
- Lange, George, Bronx, N. Y. Holder for steel wool. 1,718,909; June 25.
- Lange, Hans O., Copenhagen, Denmark. Pillow and cushion and casing for same. 1,703,629; Feb. 26.
- Lange, Henry, Quincy, Ill. Gas heater. Des. 78,032; Mar. 19.
- Lange, Henry, Quincy, Ill. Warming closet for ranges. Des. 78,111; Mar. 26.
- Lange, Henry, Quincy, Ill. Ornamentation of metal surfaces. 1,697,190; Jan. 1.
- Lange, Henry, assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Air heater. Des. 78,297; Apr. 16.
- Lange, Henry, assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Stove-door spring. 1,718,157; June 18.
- Lange, Henry, assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Combustion chamber for stoves. 1,718,158; June 18.
- Lange, Henry, assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Air heater. 1,728,833; Sept. 17.
- Lange, Henry, assignor to The Quincy Stove Manufacturing Company, Quincy, Ill. Heater. 1,741,468; Dec. 31.
- Lange, John L., Dumont, N. J. Latch-hook device. 1,699,975; Jan. 22.
- Lange, John L., Dumont, N. J. Compound for preventing corrosion of storage battery terminal connectors. 1,710,227; Apr. 23.
- Lange, Louvern G., Passaic, N. J. Receptacle closure. 1,712,220; May 7.
- Lange, Otto, Chicago, Ill. Liquid dispenser. 1,718,567; June 25.
- Lange, Otto, Chicago, Ill. Ice-cream-cone coater. 1,729,170; Sept. 24.
- Lange, Richard, Leonia, N. J. Press attachment for feeding-roll leaves. 1,737,593; Dec. 3.
- Lange, Stephen O., Maplewood, Mo. Generator. 1,701,927; Feb. 12.
- Lange, Walter A., and A. Seibon, Ashippun, Wis. Cuspidor. 1,726,271; Aug. 27.
- Lange, William L., New York, N. Y. Hollow rim for banjos. 1,704,391; Mar. 5.
- Lange, William L., New York, N. Y. Banjo head. 1,739,006; Dec. 10.
- Langen, George. (See Addison, T., Gillham, and Langen.)
- Langen, George. (See Hohnhorst, R., and Langen.)
- Langen, George. (See Wetzel, F., and Langen.)
- Langen, George H. (See Linden, C. E., and Langen.)
- Langenbeck, Bernhard. (See Sell, H., and Langenbeck.)
- Langenberg, Everett B., assignor to Langenberg Manufacturing Co., St. Louis, Mo. Display sticker. Des. 77,780; Feb. 19.
- Langenberg, Frederick C. (See Morehead, French H., assignor.)
- Langenberg, Frederick C. (See Solberg, John C., assignor.)
- Langenberg, Frederick C., Watertown, Mass. Alloy steel. 1,723,868; Aug. 6.
- Langenberg, Frederick C., assignor of one-half to T. C. Dickson, Watertown, Mass. Making hollow metallic articles. 1,710,776; Apr. 30.
- Langenberg, Frederick C., New York, N. Y., assignor of one-half to F. H. Morehead, Boston, Mass. Machine for making castings. 1,715,418; June 4.
- Langenberg, Frederick C., assignor of one-half to T. C. Dickson, Watertown, Mass. Making hollow metallic articles. 1,720,366; July 9.
- Langenberg Manufacturing Co. (See Langenberg, Everett B., assignor.)
- Langenberg, Theodor, Berlin, assignor to the firm C. A. Pesca & Sohn, Berlin-Lichtenberg, Germany. Continuous centrifugal machine. 1,736,349; Nov. 19.
- Langenkamp, Paul, Darmstadt, Germany. Stable pulverized hair dye. 1,738,590; Dec. 10.
- Langensiepen, Wilhelm, Dresden, Germany. Electric heater. 1,720,334; July 9.
- Langer, Anthony B., New York, N. Y. Radiator attachment. 1,709,623; Apr. 16.
- Langer, Edward F., Kampsville, Ill. All-metal screen-carrying window frame. 1,698,020; Jan. 8.
- Langer, Max, Berlin-Hermsdorf, assignor to Siemens & Halske Aktiengesellschaft, Wernerkwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,705,732; Mar. 19.
- Langer, Max, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Wernerkwerk, Siemensstadt, near Berlin, Germany. Circuit arrangement for automatic telephone systems. 1,714,881; May 28.
- Langer, Rudolph J., assignor to Franklin Equipment Company, Monticello, Iowa. Handle bar for implements. 1,698,759; Jan. 15.
- Langerak, Meyer. (See Langerak, Wiggert, assignor.)
- Langerak, Wiggert, assignor of one-half to M. Langerak, Peella, Iowa. Grain-weighing machine. 1,721,025; July 16.
- Langford, Ada W. (See Sweet, Laurence A., assignor.)
- Langford, George, assignor to McKenna Process Company of Illinois, Joliet, Ill. Re-forming worn angle bars. 1,712,506; May 14.
- Langford, George, assignor to McKenna Process Company of Illinois, Joliet, Ill. Heat treating bars. 1,724,031; Aug. 13.
- Langford, George, assignor to McKenna Process Company of Illinois, Joliet, Ill. Renewing worn angle bars. 1,732,650; Oct. 22.
- Langford, George W. (See MacLean, J. H., Barrows, and Langford.)
- Langford, Jeremiah E. jr., Cedarhurst, N. Y. Rail-supporting means. 1,705,929; Mar. 19.
- Langford, Leonard W. (See Baker, Harry E., assignor.)
- Langford, Leonard W., Boston, Mass. Sectional desk. 1,700,202; Jan. 29.
- Langford, Leonard W., and H. E. Baker, Boston, Mass. Sectional roll-top desk. 1,700,201; Jan. 29.
- Langford, Leonard W., Boston, Mass., assignor to Langford Sales Audit Machine Company. Autographic punching register. 1,705,091; Mar. 12.
- Langford Sales Audit Machine Company. (See Langford, Leonard W., assignor.)
- Langford, William S., Wichita Falls, Tex. Winch attachment. 1,714,428; May 21.
- Langguth, Paul, Berlin, Germany. Combination structural plate. 1,740,928; Dec. 24.
- Langguth, Werner, Thun, and C. Hummel, Nieder-Uzwil, Switzerland. Producing photographs in natural colors. 1,710,455; Apr. 23.
- Langlands, Eric, and G. W. Toombs, Washington, D. C. Motor vehicle. 1,727,721; Sept. 10.
- Langiaux, Henri, Paris, France, assignor to F. A. Shea, Boston, Mass. Supporting case for flatirons. 1,707,487; Apr. 2.
- Langill, Ross E., and W. B. Grueter, assignors to The Prescott Company, Menominee, Mich. Band sawing machine. 1,699,365; Jan. 15.
- Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Indicating device. 1,701,377; Feb. 5.
- Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Loop for radioreception. 1,719,893; July 9.
- Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Adjusting device. 1,728,834; Sept. 17.
- Langley, Ralph H., Schenectady, N. Y., assignor to General Electric Company. Indicating device. 1,731,141; Oct. 8.
- Langlois, Alfred G., Paris, France. Cigarette case. 1,725,654; Aug. 20.
- Langlois, Arthur J., and W. H. Mansfield, Haverhill, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Channel-flap-turning machine. 1,712,921; May 14.
- Langmeier, Arthur. (See Kaiser, H. E., and Langmeier.)
- Langmeier, Arthur, Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing glycol esters of abietic acid. 1,697,530; Jan. 1.
- Langmuir, Frank H., Newark, N. J., assignor to Never-break Trunk Company. Luggage. 1,698,848; Jan. 15.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Electrical discharge device. 1,723,869; Aug. 6.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Photo-electric device. 1,740,252; Dec. 17.
- Langos, Alfred F., Chicago, Ill. Cigar lighter. 1,697,686; Jan. 1.
- Langos, Alfred F., Chicago, Ill. Cigar lighter. 1,719,228; July 2.
- Langren, Arthur, Le Mars, assignor of one-fourth to C. E. Mayer, Sioux City, Iowa. End gate. 1,716,343; June 4.
- Langs, Charles H., Chicago, Ill. Safety device to protect carrier entrances. 1,720,047; July 9.



- Langsdorf, Alexander S., assignor to Alvey Manufacturing Company, St. Louis, Mo. Conveyer system. 1,716,448; June 11.
- Langsdorf, Jesse E., Woodmere, N. Y. Necktie. 1,735,172; Nov. 12.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Developing apparatus. 1,699,976; Jan. 22.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Developing apparatus. 1,704,439; Mar. 5.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Developing apparatus. 1,722,100; July 23.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Measuring tape. 1,723,739; Aug. 6.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Leveling-rod clamp. 1,725,531; Aug. 20.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Developing apparatus. 1,725,532; Aug. 20.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Measuring tape. 1,726,960; Sept. 3.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Leveling-rod clamp and forming same. 1,728,893; Sept. 17.
- Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Measuring-tape reel. 1,739,240; Dec. 10.
- Langsner, Adolph, assignor to Eugene Dietzgen Co., Chicago, Ill. Measuring tape. 1,740,947; Dec. 24.
- Langston, Thomas E., Franklinton, N. C. Cloth cutter. 1,706,925; Mar. 26.
- Langton, George H., Clifton Forge, Va. Bearer bar for furnace grates. 1,720,483; July 9.
- Langvard, Ivar L., Barborton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Air heater. 1,737,970; Dec. 3.
- Lanham, Ira W., Elbern, Ill. Cleansing composition. 1,724,289; Aug. 13.
- Lankheet, Sander, assignor of one-half to H. G. Pelon, Holland, Mich. Brake-actuating mechanism. 1,717,697; June 18.
- Lannen, Joseph P., Detroit, Mich. Wheel-balancing apparatus. 1,729,947; Oct. 1.
- Lannie, Thomas, Detroit, Mich. Slicing machine. 1,728,865; Sept. 17.
- Lanning, Lawrence R., Sabetha, Kans. Seating arrangement for motor vehicles. 1,716,316; June 4.
- Lannoye, Auguste, Genval, Belgium. Continuous manufacture of floor coverings. 1,738,591; Dec. 10.
- Lanphier, Robert C., and F. C. Holtz, Chicago, assignors to Sangamo Electric Company, Springfield, Ill. Electricity meter. 1,708,972; Apr. 16.
- Lansing, Raymond P., et al. (See Church, Harold D., assignor.)
- Lansing, Raymond P., Montclair, N. J. Vehicle spring-controlling appliance. 1,697,246; Jan. 1.
- Lansing, Raymond P., Montclair, N. J. Shock absorber for vehicles. 1,697,247; Jan. 1.
- Lansing, Raymond P., Montclair, N. J. Shock absorber for vehicles. 1,697,392; Jan. 1.
- Lansing, Raymond P., Montclair, N. J. Shock absorber and spring control for vehicles. 1,697,393; Jan. 1.
- Lansing, Raymond P., Montclair, N. J. Vehicle spring-controlling appliance. 1,697,394; Jan. 1.
- Lansing, Raymond P., Montclair, N. J. Vehicle spring-controlling appliance. 1,697,395; Jan. 1.
- Lansing, Raymond P., Montclair, N. J. Vehicle spring controller. 1,699,701; Jan. 22.
- Lansing, Raymond P., Montclair, N. J. Vehicle spring controller. 1,699,702; Jan. 22.
- Lansing, Raymond P., Montclair, N. J. Vehicle spring controller. 1,699,703; Jan. 22.
- Lansing, Raymond P., Montclair, N. J. Shock absorber for vehicles. 1,699,742; Jan. 22.
- Lansing, Raymond P., Montclair, N. J. Door-controlling and similar device. 1,705,820; Mar. 19.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,709,027; Apr. 16.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,709,585; Apr. 16.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,709,586; Apr. 16.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira Heights, N. Y. Engine-starting mechanism. 1,714,913; May 28.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,719,299; July 2.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,726,397; Aug. 27.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Combined engine starter and driving means for mechanisms. 1,730,220; Oct. 1.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,739,469; Dec. 10.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,739,470; Dec. 10.
- Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira Heights, N. Y. Engine-starting apparatus. 1,741,370; Dec. 31.
- Lanston Monotype Machine Company. (See Indahl, Mauwitz C., assignor.)
- Lanthier, Romain, et al. (See Rivard, Albert, assignor.)
- Lantz, John W., assignor of one-half to G. A. Brown, Akron, Ohio. Bag holder. 1,731,341; Oct. 15.
- Lantz, Louis A., and Ronald Watson, Manchester, England. Production of aniline black on textile fibers. 1,739,908; Dec. 17.
- Lantz, Ray E., assignor to Wasmuth-Endicott Company, Andrews, Ind. Cabinet. 1,720,484; July 9.
- Lantz, Robert. (See Wahl, A., and Lantz.)
- Lanyon, Samuel H., Oakland, Calif., assignor to Lapp Insulator Co., Le Roy, N. Y. Insulating support. 1,733,188; Dec. 3.
- Lantz, Warren C., Le Roy, Ill. Grain-car door. 1,731,672; Oct. 15.
- Lanz, Gustav. (See Fuchs, A., Hanff, and Lanz.)
- Lanzkron, Anna, Hamburg, Germany. Vegetable slicer. 1,703,154; Feb. 26.
- Lanzky, Frank L., assignor to The Champion Spring Company, Cleveland, Ohio. Bedspring stay device. 1,718,964; July 2.
- La Page, Edward. (See Belanger, Simon, assignor.)
- La Pegna, Raffaello, Milan, Italy. Bookkeeping machine. 1,707,864; Apr. 2.
- Lapensée, Joseph, Plantagenet, Ontario, Canada. Color-identifying device. 1,732,848; Oct. 22.
- Lapenta, Vincent A., Indianapolis, Ind. Making colloidal adsorption of HCl. 1,699,596; Jan. 22.
- Lapenta, Vincent A., Indianapolis, Ind. Electroendosmosis method and apparatus. 1,711,416; Apr. 30.
- Lapham, Edwin B. (See Hall, Milan W., assignor.)
- Lapham, Marshall, assignor to Spiral-Rolled Products Co., Inc., New York, N. Y. Interlocking bolts and nuts. 1,734,681; Nov. 5.
- Lapidus, Henry B., Brooklyn, N. Y. Shoe. 1,717,512; June 18.
- Lapierre Gerard, St. Ludger, Quebec, Canada. Machine for passing tape through hooks. 1,697,603; Jan. 1.
- La Pierre, Julian B., Chicago, Ill. Gear-shift-lever knob. Des. 77,604; Jan. 29.
- Lapin Specialty Mfg. Co., The. (See Ehrlich, Rose, assignor.)
- Lapippe, André A., Porte Menier, Ile d'Anticosti, Quebec, Canada. Grain-shocking device. 1,704,090; Mar. 5.
- Lapkin, John D., Brooklyn, assignor to F. Alexander and M. D. Kopple, New York, N. Y. Pastry-making machine. 1,732,096; Oct. 15.
- La Plant, Simeon H. (See Newitt, F. T., La Plant, and Turner.)
- La Pointe, Charles E. (See Mattison, C. L., and La Pointe.)
- Lapointe, Frances J., Ann Arbor, Mich. Adjustable finishing end for broaches. 1,724,669; Aug. 13.
- Lapointe, Francis J., Ann Arbor, Mich. Quick-acting broach-locking device. 1,732,445; Oct. 22.
- La Pointe Machine Tool Company. (See Forberg, Albert, assignor.)
- Lapolice, Ephrem, Sault aux Recoiltes, Montreal, Quebec, Canada. Vehicle wheel. 1,707,060; Mar. 26.
- Laporte Adjustable Visor Company, The. (See Tompkins, Arthur B., assignor.)
- La Porte, Louis, administrator. (See Liberty, Alexander M.)
- Lapp Insulator Company. (See Lapp, John S., assignor.)
- Lapp Insulator Co. (See Lanyon, Samuel H., assignor.)
- Lapp, John S., Le Roy, N. Y., assignor to Lapp Insulator Company, Inc. Insulator stack. 1,710,880; Apr. 30.
- Lapp, John S., Leroy, N. Y., assignor to Lapp Insulator Company, Inc. Clamp. 1,729,785; Oct. 1.
- Lapsley, Howard G., Plainfield, N. J. Projectile toy. 1,741,995; Dec. 31.
- Laquidara, Antonio K., New York, N. Y. Cornice mold. 1,733,065; Oct. 22.
- Larava, Frank L., assignor to Culver Stearns Manufacturing Company, Worcester, Mass. Switch socket. 1,710,264; Apr. 23.
- Larche, Lucien E., Stamford, Tex. Price-tag-supporting shelf. 1,738,376; Dec. 3.
- Larcher, Albert J., Chicago, Ill., assignor to Wyman-Gordon Company, Worcester, Mass. Process and apparatus for forging crank shafts. 1,717,513; June 18.
- Large, John H., Caldwell, assignor, by mesne assignments, to International Musical Corporation, Jersey City, N. J. Stringed musical instrument. 1,697,396; Jan. 1.
- Large, John H., Caldwell, assignor to International Musical Corporation, Hoboken, N. J. Zither or similar article. Des. 79,821; Nov. 5.
- Large, Sylvester B., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Booster detonator. 1,713,838; May 21.
- Largent, Raleigh M., Walla Walla, and L. C. Van Patten, assignors to Cheney Weeder Company, Cheney, Wash. Rotary-rod weeder. 1,710,881; Apr. 30.
- Largman-Gray Company. (See Flach, Ernst, assignor.)
- Larimer Company, The. (See Otto, Miller W., assignor.)
- Larimore, Albert W., Council Bluffs, Iowa. Windshield attachment. 1,704,897; Mar. 12.
- Larius, Emil, Highbridge, N. Y. Orthopedic shoe and boot. 1,707,166; Mar. 26.
- La Riviere, Mathias J., Waterbury, Conn. Stop signal. 1,701,378; Feb. 5.
- Larkin Co. (See Hornung, Charles G., assignor.)
- Larkin, Edward B., and T. A. Conneely, Bradford, Pa. Fire extinguisher. 1,707,674; Apr. 2.



- Larkin, Elwood T., assignor to C. A. Criqui, Buffalo, N. Y. Lubricant-cooling device for internal-combustion engines and the like. 1,713,541; May 21.
- Larkin, Elwood T., assignor to C. A. Criqui, Buffalo, N. Y. Piston for internal-combustion engines. 1,739,007; Dec. 10.
- Larkin, George R. (See Hartney, J. F., and Larkin.)
- Larkin, John A., New York, N. Y. Structural-steel framework. 1,726,844; Sept. 3.
- Larkin, John A., New York, N. Y. Joint for structural-steel columns and girders. 1,727,293; Sept. 3.
- Larkin Specialty Manufacturing Company et al. (See Johnson, William A., assignor.)
- Larkin, Walter, Norristown, assignor to Fidelity Machine Company, Philadelphia, Pa. Thread-knotting mechanism for knitting machines. 1,726,396; Aug. 27.
- Larkin, William H., Jr., Passaic, N. J., assignor of one-half to E. L. Woolley, Providence, R. I. Automatic combustion-controlling device. 1,713,839; May 21.
- Larkins, Ernest E., et al., legal representatives. (See Dawson, A. T., White, and Buckham.)
- Larmouth, John H., Montreal, Quebec, Canada. Rail anchor. 1,706,926; Mar. 26.
- Larmouth, John H., Montreal, Quebec, Canada. Rail anchor. 1,708,477; Apr. 9.
- Larned, Carter and Company. (See Larned, Cortland K., assignor.)
- Larned, Cortland K., assignor to Larned, Carter and Company, Detroit, Mich. Pocket. 1,724,605; Aug. 13.
- Larned, William A., Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Making elastic metal stringing. 1,700,170; Jan. 29.
- Larner, Chester W., Philadelphia, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Flow-control system. 1,704,392; Mar. 5.
- Larner, Chester W., Philadelphia, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Valve. 1,723,359; Aug. 6.
- Laro, Leo P., Fresno, Calif. Automobile tire-deflation alarm. 1,729,619; Oct. 1.
- Laroche, Louis J., assignor to Dick Brothers, Reading, Pa. Tree holder. Des. 79,274; Aug. 20.
- Laroche, Louis J., Reading, Pa. Ash stand. Des. 79,729; Oct. 29.
- La Rocque, George A., Hartford, Conn. Metal-handling apparatus. 1,741,782; Dec. 31.
- Laronde, Michel, assignor to Societe Anonyme des Verrieres et Manufactures de Glaces d'Aniche, Aniche, France. Machine for lading and pouring purposes. 1,718,159; June 18.
- Larose, Louis P., West Brookfield, Mass. Hydrometer. 1,730,221; Oct. 1.
- La Rouche, Pierre, Biddeford, Me. Humidifier. 1,740,897; Dec. 24.
- Larrabee, Bert G., H. A. Root, and E. S. Cassaday, assignors to Portable Self-Serving Store Company, Houston, Tex. Vending-machine casing. Des. 78,213; Apr. 9.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,822; Nov. 5.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,823; Nov. 5.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,824; Nov. 5.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,825; Nov. 5.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,826; Nov. 5.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,827; Nov. 5.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,971; Nov. 26.
- Larrabee, Bert G., Houston, Tex. Combined writing and smoking stand. Des. 79,972; Nov. 26.
- Larrabee, Clinton E., Binghamton, and L. S. Harrison, Tuckahoe, assignors to International Time Recording Company of New York, Endicott, N. Y. Automatic oil-switch time recorder. 1,734,495; Nov. 5.
- Larrabee, Gus J., Platte City, assignor of one-fourth to A. Deal, one-fourth to A. F. Gossel, and one-fourth to D. R. Clevenger, Platte County, Mo. Refrigerated ice-cream cone server. 1,704,980; Mar. 12.
- Larrad, John L., Totnes, England, assignor to T. H. Brown, New York, N. Y. Lock nut. 1,717,789; June 18.
- Larrey, Teodoro, and L. Godard, Mexico, Mexico. Steam-superheating system. 1,697,123; Jan. 1.
- Larrigan, Thomas, Kankakee, Ill. Faucet. 1,712,707; May 14.
- Larrowe Milling Company. (See Naehre, Paul, assignor.)
- Larsen, Christian J., assignor, by mesne assignments, to American Electric Company, Inc., Chicago, Ill. Telephone system. 1,700,320; Jan. 29.
- Larsen, Edward A., Larkspur, Calif. Rotative drop bow-pen instrument centrifugally governed. 1,716,782; June 11.
- Larsen, Einer W., Chicago, Ill. Steam generator. 1,708,674; Apr. 9.
- Larsen, Einer W., Chicago, Ill. Steam-heating system. 1,734,334; Nov. 5.
- Larsen, Einer W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Head for movable riveting machines. 1,739,152; Dec. 10.
- Larsen, Jacob C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Side bearing for car trucks. 1,717,045; June 11.
- Larsen, Lars H., Zillah, Wash. Fruit cleaning and polishing machine. 1,706,577; Mar. 26.
- Larsen, Lewis, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Davenport bed. 1,697,604; Jan. 1.
- Larsen, Lewis, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Producing a simulated stake and strand fabric article. 1,712,624; May 14.
- Larsen, Lewis, Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Stake and strand simulating fabric. 1,713,665; May 21.
- Larsen, Louis G. (See Alexander, R. U., and Larsen.)
- Larsen, Louis J. C., New York, N. Y. Alcohol injector. 1,702,972; Feb. 19.
- Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve. 1,708,273; Apr. 9.
- Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Apparatus for filling and capping bottles. 1,708,313; Apr. 9.
- Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Delivery mechanism for can washers. 1,724,096; Aug. 13.
- Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Automatic liquid-supply valve. 1,734,586; Nov. 5.
- Larsen, Svend H., Frederiksberg, near Copenhagen, assignor to Aktieselskabet de Forenede Bryggerier, Copenhagen, Denmark. Closing device for containers made of aluminum or other soft metals. 1,736,350; Nov. 19.
- Laresh, Everett P., assignor to The Master Electric Company, Dayton, Ohio. Quick-acting switch. 1,699,792; Jan. 22.
- Laresh, Everett P., assignor to The Master Electric Company, Dayton, Ohio. Pump. 1,723,360; Aug. 6.
- Laresh, Everett P., assignor to The Master Electric Company, Dayton, Ohio. Short-circuiting device for motor commutators. 1,735,579; Nov. 12.
- Laresh, James E. (See De Roo, W. C., and Laresh.)
- Laresh, John M., et al. (See Taylor, William M., assignor.)
- Laresh, John M., Indianapolis, Ind. Vehicle leveling mechanism. 1,716,233; June 4.
- Laresh, John M., assignor of one-half to W. M. Taylor and one-fourth to U. G. Smith, Indianapolis, Ind. Road-machine excavating and steering mechanism. 1,718,965; July 2.
- Larson, Albert G. (See Cooper, E. R., and Larson.)
- Larson, Albert G., Piedmont, Calif., assignor to L. F. Larson. Washing-machine mechanism. 1,711,955; May 7.
- Larson, Algot J. E., assignor to Art Metal Construction Company, Jamestown, N. Y. Binding means for the surface coverings of furniture. 1,705,156; Mar. 12.
- Larson, Anton G. (See Carlson, G. H., and Larson.)
- Larson, Arthur G. (See Beckley, F. A., and Larson.)
- Larson, C. B., & Co. (See Larson, Carl B., assignor.)
- Larson, Carl B., Maplewood, assignor to C. B. Larson & Co., Inc., Irvington, N. J. Belt-lacing machine. 1,740,180; Dec. 17.
- Larson, Carl B., Maplewood, assignor to C. B. Larson & Co., Inc., Irvington, N. J. Belt lacing. 1,740,181; Dec. 17.
- Larson, David C. (See Lindquist, D. L., Dunn, and Larson.)
- Larson, David C., Yonkers, and G. W. Lautrup and R. A. Waite, New York, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Speed-control system for electric motors. 1,702,388; Feb. 19.
- Larson, Elmer L., and C. A. Braunger, Oconomowoc, Wis. Induction valve. 1,706,855; Mar. 26.
- Larson, Eric V., New Rochelle, N. Y. Combination ignition lock. 1,725,086; Aug. 20.
- Larson, Fred, et al. (See Archibald, John B., assignor.)
- Larson, George A., Minneapolis, Minn., assignor to W. D. Dale, Minneapolis, Minn. Grain separator. 1,734,261; Nov. 5.
- Larson, Homer W., et al. (See Stearns, Harry C., assignor.)
- Larson, Ivar C., Providence, R. I. Door catch. 1,732,940; Oct. 22.
- Larson, John M., Burbank, S. Dak. Animal controller. 1,702,697; Feb. 19.
- Larson, John M., assignor to National Regulator Co., Chicago, Ill. Apparatus for controllably regulating temperature. 1,704,008; Mar. 5.
- Larson, John M., assignor to National Regulator Co., Chicago, Ill. Apparatus for controllably regulating temperature. 1,705,527; Mar. 19.
- Larson, Karl R., South Auburn, R. I. Making vanity cases. 1,724,406; Aug. 13.
- Larson, Lydia F. (See Larson, Albert G., assignor.)
- Larson, Martin, LaGrange, Ill. Last-forming machine. 1,724,139; Aug. 13.
- Larson, Nils G., assignor to So-Lo Jack Co., Inc., Attleboro, Mass. Load-lifting jack. 1,736,202; Nov. 19.
- Larson, Oscar, Haestved, assignor to G. Hald, Copenhagen, Denmark. Antioverheating fuse for spark plugs in internal-combustion engines. 1,712,221; May 7.
- Larson, Oscar J., et al. (See Swanson, Charles J., assignor.)
- Larson, Theodore H., Chicago, Ill. Scalp-treating device. 1,710,882; Apr. 30.
- Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Current collector. 1,706,618; Mar. 26.
- Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Current collector. 1,715,460; June 4.



- Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Current collector. 1,742,086; Dec. 31.
- Larsson, Lars E. (See Ericsson, Gustaf L., assignor.)
- Larsson, Thure, and H. W. H. Beth, assignors to Norton Company, Worcester, Mass. Segmental abrasive wheel. 1,729,585; Sept. 24.
- Larsson, Thure, and H. W. H. Beth, assignors to Norton Company, Worcester, Mass. Segmental grinding wheel and assembling the same. 1,736,161; Nov. 19.
- Larter, Raymond B., Los Angeles, Calif. Desk pad. 1,720,682; July 16.
- Larzeler, Charles F., Flint, assignor to General Motors Corporation, Detroit, Mich. Automatic tire-filling connection. 1,721,518; July 23.
- La Salle Brass & Bronze Works, Inc. (See Blumenfeld, Edward G., assignor.)
- La Salle Brass & Bronze Works, Inc. (See Boltuch, Max, assignor.)
- Laschinger, Edgar J. (See Furnivall, W. H. G., McLaren, and Laschinger.)
- Lasell, Louis M., Sacramento, Calif. Roller-shade casing. 1,713,666; May 21.
- Lasher, Charles W., Jr., Wilmette, Ill., assignor to Milwaukee Printing Company, Milwaukee, Wis. Advertising display stand. 1,717,456; June 18.
- Lasher, Elias, Catskill, N. Y. Back for automobile seats. 1,703,310; Feb. 26.
- Lash's Products Company, The. (See Kunz, Ludwig, assignor.)
- Laska, August L., and A. Zitscher, Offenbach-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Azodyestuffs and making same. Re17,306; May 28.
- Laska, Leopold, and F. Weber, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Monoazo dyestuffs derived from naphthylamine carboxylic acids. 1,702,832; Feb. 19.
- Laska, Leopold, and F. Weber, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Ortho-hydroxyazodyestuffs and making same. 1,706,927; Mar. 26.
- Laska, Leopold, Krecke, and F. Weber, Offenbach-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azodyestuffs and making same. 1,709,939; Apr. 23.
- Laska, Leopold, and A. Zitscher, Offenbach-on-the-Main, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs, derived from 2,3-dihydroxynaphthyl-2-amino-3-naphtholethers. 1,725,087; Aug. 20.
- Lasker, George, Chicago, Ill. Steam boiler. 1,733,808; Oct. 29.
- Lasker, George, Chicago, Ill. Weather-strip support. 1,735,048; Nov. 12.
- Lasker, William W., Brooklyn, assignor by mesne assignments, to Remington Rand Inc., New York, N. Y. Actuating-bar control for accounting machines. 1,705,982; Mar. 19.
- Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Adding-sector-restoring mechanism. 1,713,342; May 14.
- Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Contact unit for typewriter-key punches. 1,723,242; Aug. 6.
- Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Printing-punch mechanism. 1,727,471; Sept. 10.
- Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Rack-bar-driving mechanism of printing tabulators. 1,730,512; Oct. 8.
- Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Operating mechanism for tabulating and like machines. 1,730,513; Oct. 8.
- Lasker, William W., Brooklyn, N. Y., and J. Mueller, North Bergen, N. J., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Type sector. 1,705,983; Mar. 19.
- Laskey, Rose D., executrix. (See Laskey, William B.)
- Laskey, William B., deceased, Brooklyn, N. Y.; R. D. Laskey, executrix. Thermostatically-operated mixing valve. 1,715,662; June 4.
- Laskin, Myron, Milwaukee, Wis. Tanning and finishing skins. 1,708,020; Apr. 9.
- Lasky, Melvyn C., Hollywood, Calif. Dental bridge. 1,737,164; Nov. 26.
- La Societe Chimique de la Grande Paroisse, Azole & Produits Chimiques. (See Claude, G., and Gosselin, assignors.)
- La Societe du Film en Couleurs Keller-Dorian. (See Oswald, André, assignor.)
- La Societe l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude. (See Claude, Georges, assignor.)
- Lassen, Frederik, assignor to Aktieselskabet De forenede Bryggerier, Copenhagen, Denmark. Pasteurizing liquids. 1,724,291; Aug. 13.
- Lasseter, Walter L., Enterprise, Ala. Adjustable loop hook for backbands. 1,714,331; May 21.
- Lassey, Walter W., Worcester, Mass., assignor to M. J. Whittall Associates. Picking mechanism for wide-carpet looms. 1,704,860; Mar. 12.
- Lassiter-Bowman-Tyler Syndicate. (See Tyler, Tracy B., assignor.)
- Lassiter, Rush E., et al., trustees. (See Tyler, Tracy B., assignor.)
- Last, James, Wallington, England. Mold-aligning means. 1,717,109; June 11.
- Last, James, Kingston, Pa., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Visible-card-feeding mechanism. 1,725,400; Aug. 20.
- Last, James, Dobbs Ferry, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Sorting machine. 1,736,540; Nov. 19.
- Lasting, Hyman B., assignor to Putt-Well Golf Corporation, Portsmouth, Va. Golf game. 1,736,316; Nov. 19.
- Laterza, Domenico, Indiana, Pa. Punch. 1,730,279; Oct. 1.
- La Tessa, Tully, assignor to The Merit Company, Chicago, Ill. Casket. Des. 80,127; Dec. 17.
- Lateur, Gaston, San Francisco, assignor of one-half to J. Joubert, Healdsburg, Calif. Pump. 1,728,620; Sept. 17.
- Latham Machinery Company. (See Juul, Peter A., assignor.)
- Latham Machinery Company. (See Leschhorn, Ernest, assignor.)
- Latham Machinery Company. (See Metcalf, Irving R., assignor.)
- Latham Machinery Company. (See Richardson, G. L., and Pabich, assignors.)
- Lathrop, Asa, assignor of one-half to H. E. Johnson, B. O. Meadows, W. J. Griffiths, L. C. Wirene, E. F. Marshall, H. F. McCollough, S. L. Williams, E. L. Snyder, and F. H. Doser, Charlton, Iowa. Static eliminator. 1,722,963; July 30.
- Lathrop, Elbert C. (See Munroe, T. B., and Lathrop.)
- Lathrop, Frank H. (See Hartzell, A., and Lathrop.)
- Lathrop, G. F., et al. (See Bright, Seth L., assignor.)
- Lathrop-Hoge Gypsum Construction Company. (See Hoge, Edward C., assignor.)
- Lathrop-Hoge Gypsum Construction Company. (See Lathrop, Jay C., assignor.)
- Lathrop, Jay C., Cincinnati, Ohio. Precast roof slab. 1,726,031; Aug. 27.
- Lathrop, Jay C., assignor to Lathrop-Hoge Gypsum Construction Company, Cincinnati, Ohio. Structural roof and floor. 1,709,028; Apr. 16.
- Lathrop, Willard O., Cincinnati, Ohio. Bracing device for spring-bed structures. 1,714,226; May 21.
- Lathrop, Willard O., Cincinnati, Ohio. Bedspring structure. 1,714,227; May 21.
- Latimer, Charles A., assignor to C. A. Mauk Lumber Company, Toledo, Ohio. Packing shingles. 1,716,783; June 11.
- Latimer, Henry W., San Pedro, Calif. Shears. 1,710,456; Apr. 23.
- Latour Corporation. (See Latour, Marius, assignor.)
- Latour, Marius, Paris, France, assignor to Latour Corporation, Jersey City, N. J. Radiosignaling. 1,710,170; Apr. 23.
- Latrobe Electric Steel Company. (See Giles, David J., assignor.)
- Latsch, Paul, Zurich, Switzerland. Apparatus for making test samples of slivers and the like. 1,719,061; July 2.
- Latshaw, Elmer, assignor to The J. G. Brill Company, Philadelphia, Pa. Articulated car. 1,740,358; Dec. 17.
- Latta, John S. (See Renwick, Frederick W., assignor.)
- Latta, John S., et al. (See Renwick, Frederick W., assignor.)
- Lattemann, Emil, Bremen, Germany. Shoe. 1,729,393; Sept. 24.
- Lau, Dook H., Paris, France. Advertising apparatus. 1,730,286; Oct. 1.
- Lau, Edwin F., Melrose Park, assignor to Consolidated Steel Strapping Company, Chicago, Ill. Crating. 1,741,241; Dec. 31.
- Lau, Frederick J., sr., Waterbury, Conn. Combination shoe stretcher and tree. 1,700,724; Jan. 29.
- Laub, Adolf, Basel, Switzerland. Variable-speed apparatus. 1,733,024; Oct. 22.
- Laub, George M., Brooklyn, assignor to Excella Pattern Company, Inc., New York, N. Y. Pattern and making the same. 1,717,983; June 18.
- Laubenstein, Albert R., Ashland, Pa. Ventilator. 1,708,841; Apr. 9.
- Lauber, Emil A., Eugene, Oreg. Egg testing and labeling machine. 1,708,548; Apr. 9.
- Lauber, William, Meadowbrook, Pa. Stocking. Des. 79,560; Oct. 8.
- Laubscher, Carl W., et al. (See Weisbarth, John, assignor.)
- Laucks, I. F., Inc. (See Cone, C. N., Davidson, and Laucks, assignors.)
- Laucks, I. F., Inc. (See Davidson, Glenn, assignor.)
- Laucks, Irving F. (See Cone, C. N., Davidson, and Laucks.)
- Laucks, Irving F. (See Greene, F. C., and Laucks.)
- Laucks, Irving F. (See Rippey, H. F., Davidson, Cone, Laucks, and Banks.)
- Laucks, Irving F., Seattle, Wash., assignor to Old Ben Coal Corporation, Chicago, Ill. Method of and apparatus for carbonizing coal and like material. 1,713,840; May 21.
- Laucks, Irving F., H. P. Banks, and H. F. Rippey, assignors to Laucks Laboratories, Inc., Seattle, Wash. Cleansing and preparing for storage and market, fruit after harvesting. 1,732,316; Oct. 22.
- Laucks Laboratories, Inc. (See Laucks, I. F., Banks, and Rippey, assignors.)



- Laucks Laboratories Inc. (See Rippey, Hugh F., assignor.)  
 Laucks, S. Porry. (See Katz, John A., assignor.)  
 Laud, William H., et al. (See Roehrich, Frank N., assignor.)  
 Lauda, Henry J., et al. (See Roehrich, Frank N., assignor.)  
 Lauderdale, Chapin F., deceased, Portland, Oreg. F. R. McBride, administrator. Electric sterilizer. 1,699,001; Jan. 15.  
 Lauer, Anna A., administratrix. (See Adams, Julius F.)  
 Lauer, Stewart E., Los Angeles, Calif., assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Can group for ice manufacture. 1,700,359; Jan. 29.  
 Lauer, Stewart E., assignor to York Ice Machinery Corporation, York, Pa. Air cooler. 1,736,408; Nov. 19.  
 Lauer, William E. (See Rumble, Alex C., assignor.)  
 Läuffer, August, Vienna, Austria. Spike point. 1,711,393; Apr. 30.  
 Laufer, Robert. (See Bartholomew, R. J., and Laufer.)  
 Laufer, Andreas, assignor to the firm Friedrich Mauthe G. m. b. H., Schwenningen, Germany. Device for escapement regulation of pendulum clocks. 1,718,653; June 25.  
 Laugel, Charles R., Berkeley, Calif. Apparatus for decorating mirrors. 1,719,554; July 2.  
 Läger, Paul, assignor to the firm of J. R. Geigy, S. A., Basel, Switzerland. Manufacture of alkylisrosinduline-sulphonic acids. 1,703,772; Feb. 26.  
 Laughinghouse, Richard M. (See Horne, B. S., and Laughinghouse.)  
 Laughlin, Alexander, jr., deceased, Edgeworth; M. M. Laughlin and The Union Trust Co., executors, assignors to Central Tube Company, Pittsburgh, Pa. Method and article for the manufacture of tubes. 1,732,519; Oct. 22.  
 Laughlin, Elmyr A., Oregon, Ill., and E. R. Packer, New Rochelle, said Packer assignor to Q. & C. Company, New York, N. Y. Side bearing. 1,737,594; Dec. 3.  
 Laughlin Filter Corporation. (See Laughlin, William C., assignor.)  
 Laughlin, John, sr., Crookston, and L. M. Swisdal, Taconite, Minn. Tamping machine. 1,706,121; Mar. 19.  
 Laughlin, John, assignor of one-fourth to W. Echart, Philadelphia, Pa. Container. 1,733,889; Oct. 29.  
 Laughlin, Margaret M., et al., executors. (See Laughlin, Alexander, jr.)  
 Laughlin, Roy F., Elwood, Ind. Bean snipper. 1,726,032; Aug. 27.  
 Laughlin, Samuel L., and H. F. Braun, assignors to The Cleveland Universal Parts Company, Cleveland, Ohio. Oil-burner unit. 1,716,449; June 11.  
 Laughlin, William C., Glendale, Calif., assignor to Laughlin Filter Corporation, New York, N. Y. Centrifugal separator. 1,699,471; Jan. 15.  
 Laughlin, William C., Glendale, Calif., assignor to Laughlin Filter Corporation, New York, N. Y. Centrifugal separators. 1,710,315; Apr. 23.  
 Laughlin, William C., Glendale, Calif., assignor to Laughlin Filter Corporation, New York, N. Y. Centrifugal machine. 1,710,316; Apr. 23.  
 Laughon, Eugene A., Roanoke, Va. Bag holder. 1,713,185; May 14.  
 Laughter, Victor H., Memphis, Tenn., assignor to Valley Electric Company, St. Louis, Mo. Radiofrequency amplification system. 1,731,012; Oct. 8.  
 Laughter, Victor H., assignor to Valley Electric Company, St. Louis, Mo. Radiofrequency amplification system. 1,731,013; Oct. 8.  
 Laukamp, Bernhard, Berlin-Pankow, Germany. Mold for manufacturing hair clamps. 1,733,739; Oct. 29.  
 Laukhuf, Alfred, Milwaukee, Wis. Clutch. 1,701,327; Feb. 5.  
 Laupot, Louis, New York, N. Y., assignor to Universal Metal Chain Co. Inc. Fixture chain. 1,713,363; June 25.  
 Lauppi, Werner, and L. Bertanyi, Portland, Oreg. Advertising device. 1,720,556; July 9.  
 Laurello, Mike, and J. Sorbs, Ashtabula, Ohio. Railway-track rail. 1,728,798; Sept. 17.  
 Laurence, Thomas J., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Heat-treating furnace. 1,705,621; Mar. 19.  
 Laurence, Thomas J., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Heat-treating furnace. 1,712,831; May 14.  
 Laurent de la Ville le Roux, René L. J. (See Conti, James T. F., assignor.)  
 Laurent, Emile A., Denver, Colo. Automobile signal lamp. (Des. 80,237; Dec. 31.)  
 Laurent, Louis C., Denver, Colo. Reflector for automobile headlights. 1,738,304; Dec. 3.  
 Lauria, Carmelo, New York, N. Y. Lamp stand. Des. 79,090; July 30.  
 Laussucq, Henri P. L., Reading, Pa. Bending machine. 1,720,335; July 9.  
 Lauster, Franz. (See Brückel, W., and Lauster.)  
 Lautenschlager, William F., Cincinnati, Ohio, assignor to The Peerless Machinery Company, Boston, Mass. Automatic paper feed for perforating machines. 1,721,486; July 16.  
 Lautenschlager, William F., Cincinnati, Ohio, assignor to The Peerless Machinery Company, Boston, Mass. Perforating machine. 1,739,681; Dec. 17.  
 Lauter, Felix, Flushing, N. Y., assignor to Lignel Corporation. Treating wood. 1,697,248; Jan. 1.  
 Lauter, Felix, Flushing, N. Y., assignor to Lignel Corporation. Aggregating particles of wood. 1,702,013; Feb. 12.  
 Lauter, Leon. (See Sundel, Samuel, assignor.)  
 Lauterbur, Edward J. (See Lauterbur, Frank X., and E. J.)  
 Lauterbur, Frank X., Sidney, Ohio. Bearing. 1,700,321; Jan. 29.  
 Lauterbur, Frank X., Sidney, Ohio. Dough mixer. 1,716,701; June 11.  
 Lauterbur, Frank X. and E. J., Sidney, Ohio. Dough mixer. 1,722,475; July 30.  
 Lauterbur, Frank X. and E. J., Sidney, Ohio. Dough mixer. 1,726,033; Aug. 27.  
 Lauterbur, Frank X. and E. J., Sidney, Ohio. Dough-molding machine. 1,729,674; Oct. 1.  
 Lauton, Sidney M. (See Wolfe, E. S., and Lauton.)  
 Lautrup, George W. (See Larson, D. C., Lautrup, and Waite.)  
 Lautrup, George W. (See Lindquist, D. L., and Lautrup.)  
 Lautrup, George W. (See Waite, R. A., and Lautrup.)  
 Lautrup, George W., Yonkers, N. Y., and G. N. Crabbe, Cresskill, assignor to Otis Elevator Company, Jersey City, N. J. Control system for elevators. 1,704,331; Mar. 5.  
 Laux, Richard, Fort Wayne, Ind. Eraser knife for fountain pens. 1,738,496; Dec. 3.  
 Lavan, Hercules D., Roslyn, N. Y. Dispensing container. 1,712,442; May 7.  
 Lavan, Thomas J., Cleveland, Ohio. Track ballasting. 1,731,014; Oct. 8.  
 Lavarack, Frederick C., Montclair, N. J. Pipe-carrier foundation top. 1,699,148; Jan. 15.  
 Lavarack, William H. B. (See Deems, E. M., and Lavarack.)  
 Lavaud, Jean P., Clivray, France. Double fingers for mowing machines. 1,737,504; Nov. 26.  
 Lavedan, Lucien, New Orleans, La. Manufacturing yeast. 1,718,910; June 25.  
 Lavelle Foundry Company. (See Stanley, James F., assignor.)  
 Laver, Arthur, Caldwell, and G. Davidson, Montclair, N. J. Attachment for lawn mowers. 1,722,381; July 30.  
 Laverty, Fred V., Alta Vista, Kans. Automobile cuspidor. 1,733,995; Oct. 29.  
 Lavick, Samuel B., Chicago, Ill. Cigar lighter. 1,728,292; Sept. 17.  
 La Vietes, George E. (See Dimick, Lewis O., assignor.)  
 La Vigna, William. (See Dreese, E. E., and La Vigna.)  
 La Vigna, William, University Heights, and F. Malner, assignors to The Lincoln Electric Company, Cleveland, Ohio. End bracket for dynamo-electric machines. 1,725,806; Aug. 27.  
 La Vigne, Jerome R., assignor to The Waterbury Buckle Co., Waterbury, Conn. Buckle. Des. 79,521; Oct. 1.  
 La Vigne, Jerome R., assignor to The Waterbury Buckle Co., Waterbury, Conn. Buckle. Des. 79,522; Oct. 1.  
 La Vigne, Jerome R., assignor to The Waterbury Buckle Co., Waterbury, Conn. Buckle. Des. 79,523; Oct. 1.  
 La Vigne, Jerome R., assignor to The Waterbury Buckle Co., Waterbury, Conn. Garter clasp. 1,725,714; Aug. 20.  
 Lavinthal, Hyman, Trenton, N. J. Heel-blank sheet. 1,713,135; May 14.  
 Lavley, John E., deceased, by R. B. Lavley, administratrix, Colorado Springs, Colo. Evergreen-wreath-making machine. 1,729,171; Sept. 24.  
 Lavley, Ruth E., administratrix. (See Lavley, John E.)  
 Lavoie, Joseph, assignor to E. H. Frye, trustee, Detroit, Mich. Combined sadiron and heater. 1,723,561; Aug. 6.  
 Law, Albert, Jackson Heights, N. Y. Tubular rack. 1,737,971; Dec. 3.  
 Law, Charles R., assignor to The Law Company, Incorporated, Mansfield, La. Valve mechanism. 1,734,866; Nov. 5.  
 Law Company, The. (See Law, Charles R., assignor.)  
 Law, Harold W., San Francisco, Calif. Necktie rack. 1,701,783; Feb. 12.  
 Lawaczek, Franz, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Rotary machine, particularly in centrifugal pump. 1,704,481; Mar. 5.  
 Lawaczek, Franz, Munich, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Compressor or vacuum air pump. 1,712,625; May 14.  
 Lawaczek, Franz, Pocking, Germany, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Utilization of hydraulic energy. 1,730,578; Oct. 8.  
 Lawhorn, William H., Dallas, Tex. Double-service envelope and stationery combined. 1,717,698; June 18.  
 Lawley, Henry V., London, England. Photographic printing apparatus. 1,730,939; Oct. 8.  
 Lawley, William H., Penzance, England. Spring wire clip. 1,733,415; Oct. 29.  
 Lawlor, James, et al. (See Dwelle, Walter K., assignor.)  
 Lawlor, Joseph P., and J. I. Seay, Memphis, Tenn. Well casing and strainer. 1,709,222; Apr. 16.  
 Lawrence, Albert L., Cleveland, Ohio. Separable electrical connector. 1,736,269; Nov. 19.  
 Lawrence, Benjamin E., Chicago, Ill. Loose-leaf holder. 1,711,894; May 7.  
 Lawrence, Benjamin E., Chicago, Ill. Loose-leaf holder. 1,736,409; Nov. 19.



- Lawrence, Cecil H., Attleboro, assignor to Evans Case Company, North Attleboro, Mass. Combination pocket lighter and cigarette holder. Des. 80,179; Dec. 24.
- Lawrence, Charles B., and E. F. Martinet, assignors to The P. A. Geier Company, Cleveland, Ohio. Casing for air-treating mechanism. Des. 79,295; Aug. 27.
- Lawrence, Charles L. (See Shoemaker, R. B., and Lawrence.)
- Lawrence, Edward G. (See McClintock, O. B., Lawrence, Hanson, and Soderholm.)
- Lawrence, Edward H., Fortson, assignor of one-half to W. H. Loat, King County, Wash. Vehicle wheel. 1,733,308; Oct. 29.
- Lawrence, E. V., Safety Brake Company. (See Lawrence, Edward V., assignor.)
- Lawrence, Edward V., Dumont, N. J., assignor to E. V. Lawrence Safety Brake Company, Inc. Brake. 1,724,292; Aug. 13.
- Lawrence, Frank E., assignor to Morrison Stitcher Corporation, Niagara Falls, N. Y. Stapling machine. 1,708,274; Apr. 9.
- Lawrence, Franklin, assignor to Portland Stove Foundry Co., Portland, Me. Draft regulator for fireplaces and the like. 1,698,234; Jan. 8.
- Lawrence, George L. (See Piper, W. E., and Lawrence.)
- Lawrence, George L., Melrose, Mass. Overshoe. 1,701,573; Feb. 12.
- Lawrence, George L., Melrose, Mass. Manufacturing overshoes. 1,701,891; Feb. 12.
- Lawrence, John D., San Diego, Calif. Steel interlocked, asbestos-sheathed stucco or brick veneer wall. 1,740,898; Dec. 24.
- Lawrence, John H. (See Murray, T. E., and Lawrence.)
- Lawrence, Joseph L., London, assignor to Stanley Delapena, Clements Inn, England. Apparatus for use in the practice of ball games. 1,708,796; Apr. 9.
- Lawrence, M. G. (See Lawrence, Samuel C., assignor.)
- Lawrence, Rolland J., assignor to The Pure Oil Company, Chicago, Ill. Knock detector for internal-combustion engines. 1,725,872; Aug. 27.
- Lawrence, Samuel C., assignor to M. G. Lawrence, Savannah, Ga. Two-way hinge. 1,698,136; Jan. 8.
- Lawrence, William J., Toronto, Ontario, Canada. Core for use in the manufacture of wicker and reed baskets. 1,724,293; Aug. 13.
- Lawrence, Winthrop S., Brooklyn, assignor to Kaumagraph Company, New York, N. Y. Decorating leather and improved decorated leather. 1,703,675; Feb. 26.
- Lawrence, Winthrop S., Brooklyn, assignor to Kaumagraph Company, New York, N. Y. Marking composition. 1,718,966; July 2.
- Lawrenz, Carl O., Chicago, Ill. Check protector. 1,701,328; Feb. 5.
- Lawrenz, Henry J., Brooklyn, N. Y. Multiple face and pointer construction for gauging instruments and weighing machines. 1,701,412; Feb. 5.
- Lawrie, Alexander, Ipswich, Queensland, Australia. Multiblade fan. 1,730,372; Oct. 8.
- Lawrie, John. (See Fritsch, Rockel A., assignor.)
- Lawson, Avon G., Brockton, Mass. Two-piece chain link. 1,699,793; Jan. 22.
- Lawson, E. E., et al. (See Smith, Anthony, assignor.)
- Lawson, Edward W., West Palm Beach, Fla. Wheeled toy. Des. 77,781; Feb. 19.
- Lawson, Edward W., West Palm Beach, Fla. Shovel. Des. 77,900; Mar. 5.
- Lawson, Ernest S., Los Angeles, Calif. Welding tongs. 1,726,624; Sept. 3.
- Lawson, Gottfried C., Cleveland, Ohio. Wrench. 1,734,734; Nov. 5.
- Lawson, John and R. H., assignors to Hemphill Company, Pawtucket, R. I. Mechanism for producing knitted fabrics having lap stripes and yarn variation. 1,702,608; Feb. 19.
- Lawson, John and R. H., Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Mechanism for controlling knitting needles in plating operations. 1,720,649; July 9.
- Lawson, John F., Toronto, Ontario, Canada. Electric tube-welding machine. 1,709,587; Apr. 16.
- Lawson, John F., Brooklyn, N. Y., assignor, by mesne assignments, to Steel & Tubes, Inc. Welding pipes. 1,712,507; May 14.
- Lawson, Lindley S., assignor to Lawson Manufacturing Company, Pittsburgh, Pa. Heater. Des. 78,469; May 7.
- Lawson, Lindley S., assignor to Lawson Manufacturing Company, Pittsburgh, Pa. Heater. Des. 78,637; May 28.
- Lawson, Lionel H., Leeds, England. Machine for winding threads, twine, cords, or the like. 1,716,784; June 11.
- Lawson, Manufacturing Company. (See Lawson, Lindley S., assignor.)
- Lawson, Marion W. (See Lyon, Robert N., assignor.)
- Lawson, Robert H. (See Lawson, John and R. H.)
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for and method of making shoes. 1,706,619; Mar. 26.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machines. 1,706,620; Mar. 26.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,722,502; July 30.
- Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Reverse plaiting mechanism and method. 1,716,450; June 11.
- Lawson, Robert H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Reverse plating mechanism. 1,735,970; Nov. 19.
- Lawson, Robert S. O., Jersey City, N. J. Rope marker. 1,721,564; July 23.
- Lawson, William L., Billings, Mont. Producing alkali-earth metal oxides. 1,729,428; Sept. 24.
- Lawton, Alfred V., assignor to A. Mueller, trustee, Decatur, Ill. Closet tank and cover. 1,701,682; Feb. 12.
- Lawton, C. A., Co. (See Marshall, Francis C., assignor.)
- Lawton, Joseph M., Florence, S. C. Hollow-block wall construction. 1,703,155; Feb. 26.
- Lawton, Thomas A. (See Hedges, Frank B., assignor.)
- Lawyers Co-Operative Publishing Co. (See White, Richard W., assignor.)
- Lax, Charles B., New York, N. Y. Radio schedule indicator. 1,707,865; Apr. 2.
- Laxo, Ed, Seattle, Wash., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Automatic stop mechanism. 1,698,888; Jan. 15.
- Laxo, Ed, and N. J. Schaal, Seattle, Wash., assignors, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Auxiliary feed mechanism. 1,739,153; Dec. 10.
- Lay, Charles H., South Pasadena, Calif., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling and train-stopping system. 1,718,568; June 25.
- Lay, Emil, Frankfurt-on-the-Main-Eschersheim, Germany. Production of diffused layers on metals. 1,711,603; May 7.
- Lay, Emil, and C. Mattick, Frankfurt-on-the-Main, Germany, assignors to American Luigi Corporation, New York, N. Y. Hard solder, particularly for grey pig iron, cast steel, iron, and the like. 1,736,654; Nov. 19.
- Lay, Frank B. (See Fassett, Howard S., assignor.)
- Lay, Giles A., Draper, N. C. Tension device for spinning machines. 1,728,066; Sept. 10.
- Laycock, Edwin W., Chattanooga, Tenn. Work-holding machine. 1,729,076; Sept. 24.
- Layer, Hugo. (See Sproul, W. R., and Layer.)
- Layman, Jackson W., Marionville, Mo. Heat-controlled electric switch. 1,735,614; Nov. 12.
- Layne & Bowler Corporation. (See Layne, Mahlon E., assignor.)
- Layne & Bowler Corporation. (See Layne, M. E., and Hall, assignors.)
- Layne & Bowler Corporation. (See Whann, Jesse P., assignor.)
- Layne, Mahlon E., Houston, Tex. Thrust bearing and aligning method. 1,701,078; Feb. 5.
- Layne, Mahlon E., Houston, Tex., assignor to Layne & Bowler Corporation, Los Angeles, Calif. Centrifugal pump. 1,709,478; Apr. 16.
- Layne, Mahlon E., Houston, Tex., assignor to Layne & Bowler Corporation, Los Angeles, Calif. Rotary pump mechanism. 1,728,685; Sept. 17.
- Layne, Mahlon E., South Pasadena, assignor to Layne & Bowler Corporation, Los Angeles, Calif. Rotary well pumping mechanism. 1,701,079; Feb. 5.
- Layne, Mahlon E., South Pasadena, assignor to Layne & Bowler Corporation, Los Angeles, Calif. Driving mechanism. 1,725,401; Aug. 20.
- Layne, Mahlon E., and S. N. Hall, South Pasadena, assignors to Layne & Bowler Corporation, Los Angeles, Calif. Driving mechanism. 1,721,701; July 23.
- Layne, William R. (See Frickey, R. E., and Layne.)
- Lazar, Emil, Milwaukee, Wis. Bolt-controlling fixture. 1,740,182; Dec. 17.
- Lazar Holding Corporation. (See Lazar, Leon, assignor.)
- Lazar, Leon, assignor to Lazar Holding Corporation, New York, N. Y. Lighting fixture. 1,700,590; Jan. 29.
- Lazare, René E., Paris, and W. Clapham, Chantilly, Oise, France. Musical instrument. 1,722,249; July 23.
- Lazarus, Meyer, Brooklyn, N. Y. Electric rectifying device. 1,741,319; Dec. 31.
- Lazear, Leroy C., Chicago, Ill., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Steering wheel. 1,714,914; May 28.
- Lazenby, Francis A., Baltimore, Md. Bobbin-winding machine. 1,700,371; Jan. 29.
- Lazenby, Francis A., Baltimore, Md. Bobbin holder. 1,702,906; Feb. 19.
- Lazerson, Abraham, Chicago, Ill. Multifluted lighting fixture. Des. 79,375; Sept. 10.
- Lazote, Inc. (See Beckley, John S., assignor.)
- Lazote Inc. (See Blake, Frank C., assignor.)
- Lazote Inc. (See Claude, Georges, assignor.)
- Lazow, Mendel, New York, N. Y. Method and machine for treating fur. 1,699,977; Jan. 22.
- Lea, Henry I., Santa Monica, and C. W. Humphrey, Glendale, Calif. Aluminum-chloride process. 1,713,968; May 21.
- Lea, James E., Manchester, England. Apparatus for measuring volumetrically granular powdered material. 1,697,072; Jan. 1.
- Lea, James E., Manchester, England. Fuel-feed indicator. 1,706,928; Mar. 26.
- Lea, John M. (See Replogle, J. B., and Lea.)
- Lea, John M., Detroit, Mich. Electric-circuit-controlling device. 1,701,757; Feb. 12.



- Lea, John M., Detroit, Mich. Storage battery. 1,705,021; Mar. 12.
- Lea, John M., Detroit, Mich. Fuel-injection system. 1,735,439; Nov. 12.
- Lea, Langdon, Wynnewood, and J. A. Hawthorne, jr., Moore, Pa. Cabinet for toilet articles. 1,707,021; Mar. 26.
- Leach, Charles, Kansas City, Kans. Combined mixer and auxiliary air-inlet device. 1,703,493; Feb. 26.
- Leach Company. (See Appleton, Joseph H., assignor.)
- Leach, Edgar J., Janesville, Wis. Liquid pump. 1,739,318; Dec. 10.
- Leach, Edward E., Franklin, Pa. Floor furnace. 1,725,988; Aug. 27.
- Leach, Elden E. (See Myers, N. H., and Leach.)
- Leach, Francis L., Tyron, N. Mex. Device for carrying radium or radium-containing compounds. 1,733,159; Oct. 29.
- Leach, George, Buhl, Idaho. Cushion wheel. 1,733,081; Oct. 22.
- Leach, Guy M. (See Letourneau, Orville L., assignor.)
- Leach, Ross O., Highland Park, Mich. Combination roost, litter carrier, and window. 1,741,159; Dec. 31.
- Leach, William J., Burlington, Wis. Twisting device. 1,705,369; Mar. 12.
- Leach, William J., Burlington, Wis. Twisting device. 1,705,411; Mar. 12.
- Leader Iron Works. (See Maier, Charles J., assignor.)
- Leader Iron Works. (See Summers, Louis D., assignor.)
- League, Charles R., Los Angeles, Calif. Concrete-form system. 1,704,898; Mar. 12.
- Leahy, James F. (See Vreeland, R., and Leahy.)
- Leahy, James F., Brooklyn, N. Y. Motive-power device. 1,713,343; May 14.
- Leahy Manufacturing Co. (See Gladish, Charles H. and E. B., assignors.)
- Leahy, Richard A. (See Flanagan, Victor E., assignor.)
- Leak, William, assignor of one-fourth to W. V. Hatten, one-eighth to J. M. Endsley, and one-eighth to J. E. Zinn, Carthage, Mo. Rail clamp and brace. 1,740,359; Dec. 17.
- Leake, Richard C., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,703,826; Feb. 26.
- Leake, Richard C., assignor to General Railway Signal Company, Rochester, N. Y. Train-control system for railroads. 1,706,856; Mar. 26.
- Leake, Richard C., and C. F. Estwick, assignors to General Railway Signal Company, Rochester, N. Y. Train control. 1,700,703; Jan. 29.
- Leal, Francisco, San Diego, Calif. Advertising device. 1,733,890; Oct. 29.
- Leamon, William G. (See Parsons, Ralph M., assignor.)
- Leap, Charles H., Indianapolis, Ind. Flag holder. 1,707,557; Apr. 2.
- Leaper, Joseph M. F. (See Hess, R. W., and Leaper.)
- Leary, Charles B., Greencastle, Pa. Automobile heater. 1,705,576; Mar. 19.
- Leary, Frederick H., South Amboy, N. J. Life-saving device for submarines. 1,740,948; Dec. 24.
- Leard, Jones R., Hartwell, Ga. Lawn mower and weed cutter. 1,725,655; Aug. 20.
- Leary, James W. (See Bronander, W. B., and Leary.)
- Leary, James W., Bloomfield, N. J., assignor to American Machine & Foundry Company. Conveyor. 1,740,607; Dec. 24.
- Leary, John C., San Francisco, Calif. Connecting rod. 1,794,393; Mar. 5.
- Leary, William J., Chicago, Ill. Conduit. 1,718,463; June 25.
- Leary, William J., Chicago, Ill. Conduit. 1,725,088; Aug. 20.
- Leas, Warren R., assignor of one-half to F. S. Hopper, Wyoming, Pa. Swing hanger. 1,701,683; Feb. 12.
- Leask, James A., Cranbrook, British Columbia, Canada. Rim breaker. 1,720,281; July 9.
- Leather, Felix J., London, England. Hood for automobiles and other vehicles. 1,697,014; Jan. 1.
- Leather, Felix J., London, England. Hood for automobiles and other vehicles. 1,725,961; Aug. 27.
- Leather, Felix J., London, England. Hood for automobiles and other vehicles. 1,740,025; Dec. 17.
- Leather, Felix J., Wandsworth, London, England. Hood for automobiles and other vehicles. 1,697,073; Jan. 1.
- Leather Makers' Process Company. (See De Graff, Ellis A., assignor.)
- Leatherbury, Robert E., jr., St. Louis, Mo., assignor to Peters Brothers Rubber Company, Inc., Brooklyn, N. Y. Adhesive-taping attachment. 1,721,252; July 16.
- Leathman, Ocle A., assignor of one-third to H. Stons, Moorfield, W. Va. Automobile lunch table. 1,732,520; Oct. 22.
- Leavenworth, Harold T., Bridgeport, Conn. Process and agent for carotting furs. 1,738,189; Dec. 3.
- Leaver, Charles, Toronto, Ontario, Canada. Mixing apparatus for oil refining. 1,733,545; Oct. 29.
- Leavin, Samuel B. (See Leavin, William H. and S. B.)
- Leavin, William H. and S. B., assignors, by mesne assignments, to Gotham Knit-Bach Machine Corporation, New York, N. Y. Method of and apparatus for repairing fabrics. 1,708,675; Apr. 9.
- Leavitt, Elmer B. (See Leavitt, Harry W. and E. B.)
- Leavitt, Harry W. and E. B., Hammond, Ill. Mud lug. 1,727,652; Sept. 10.
- Leavy, Oscar, New York, N. Y. Apparatus for washing tumblers. 1,706,302; Mar. 19.
- Lebanon Iron Company. (See Donley, C. A., and Etter, assignors.)
- Lebby, States L., assignor to Corning Glass Works, Corning, N. Y. Projector. 1,740,608; Dec. 24.
- Lebby, States L., assignor to Corning Glass Works, Corning, N. Y. Light projector. 1,740,609; Dec. 24.
- Lebensart, Salomon, Vienna, Austria. Explosive projectile. 1,709,798; Apr. 16.
- Lebesnerois, Henri, Vincennes, France, assignor to The B. F. Goodrich Company, New York, N. Y. Sealing device for shafts. 1,733,416; Oct. 29.
- Lebherz, Harry J., assignor to The Everedy Company, Frederick, Md. Bottle-capping tool. 1,707,201; Mar. 26.
- Lebherz, Harry J., and R. W., assignors, to The Everedy Company, Frederick, Md. Bottle-capping tool. 1,704,295; Mar. 5.
- Lebherz, Harry J., assignor to The Everedy Company, Frederick, Md. Bottle capper. 1,734,630; Nov. 5.
- Lebherz, Robert W. (See Lebherz, Harry J. and R. W.)
- Le Blanc, Pierre E., assignor to Filature De Coton Th. Barrois, Société Anonyme, Lille, France. Opener. 1,721,077; July 16.
- Leblanc, Charles L. A. M., assignor to Societe Anonyme pour l'Exploitation des Procédés Maurice Leblanc Vickers, Paris, France. Electric bulb of the three-electrode type. 1,702,785; Feb. 19.
- Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
- Le Blond, R. K., Machine Tool Company, The. (See Strauss, W. O., and Groene, assignors.)
- Le Boeuf, Frank, Springfield, Mass. Dispensing device. 1,714,030; May 21.
- Le Boutilier, Austin, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Heat treating articles. 1,706,725; Mar. 26.
- Le Boutilier, Austin, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,720,738; July 16.
- Lebovitz, Edward, Brooklyn, N. Y. Cloth clamp. 1,706,670; Mar. 26.
- Lebovitz, Edward, Brooklyn, N. Y. Cloth cutter. 1,714,382; May 21.
- Le Breton, Eliane. (See Kahn, M., Le Breton, and Schaeffer.)
- Lebrun, Paul F. J., Paris, France. Preparing luminescent tubes. 1,704,981; Mar. 12.
- Lebrun, Paul F. J., Paris, France. Luminescent tube. 1,709,858; Apr. 23.
- Le Bus, George F., Electra, Tex. Rotary underreamer. 1,710,580; Apr. 23.
- Le Bus, George F., Electra, Tex. Sand-tester pump. 1,710,581; Apr. 23.
- Lecar Carbon Company. (See Mathewson, S. B., and Jamison.)
- Lechler, Wilhelm, Munich, Germany. Apparatus for disinfecting and extirpating vermin by means of a steam boiler. 1,727,995; Sept. 10.
- Lechner, Grete. (See Müller-Cunrad, M., and Lechner.)
- Leck, Walter W., Webster Groves, assignor, by mesne assignments, to Scullin Steel Co., St. Louis, Mo. Apparatus for heat treating metallic articles. 1,713,136; May 14.
- Leck, Walter W., Webster Groves, assignor, by mesne assignments, to Scullin Steel Co., St. Louis, Mo. Heat treating metallic articles. 1,713,137; May 14.
- Leck, Walter W., assignor to Scullin Steel Company, St. Louis, Mo. Rod-straightening machine. 1,713,138; May 14.
- Leck, Walter W., assignor to Scullin Steel Company, St. Louis, Mo. Making sucker rods. 1,724,032; Aug. 13.
- Le Clair, Titus G., Chicago, Ill. Bus construction. 1,726,077; Aug. 27.
- Le Claire, Eugene J., assignor of one-half to C. J. Mullan, St. Paul, Minn. Pop-corn machine. 1,704,133; Mar. 5.
- Le Claire, Eugene J., assignor of one-half to C. J. Mullan, St. Paul, Minn. Pop-corn humidor. 1,713,539; May 21.
- Lecocq, Maurice C. H. O., Cambrai, Nord, France. Tunnel drier. 1,729,675; Oct. 1.
- Lecroy, Thomas T., Phoenix, Ariz. Shading fountain pen. 1,727,110; Sept. 3.
- Ledbetter, Elmer E. (See Shuell, F. W., and Ledbetter.)
- Ledbetter, Elmer E. (See Shuell, F. W., Ledbetter, and Tobey.)
- Ledbetter, Elmer E., assignor to Everhot Heater Company, Detroit, Mich. Device for controlling fuel supply to gas-burner pilots. 1,699,297; Jan. 15.
- Ledbetter, James C., assignor to United States Hoffman Machinery Corporation, New York, N. Y. Pressing machine. 1,697,124; Jan. 1.
- Ledbetter, James C., Brooklyn, assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Garment press. 1,741,996; Dec. 31.
- Ledbetter, John M., San Saba, Tex. Agricultural machine. 1,714,915; May 28.
- Ledeboer, Adrian L. H., San Francisco, Calif., assignor to C. H. Smith, Pawtucket, R. I. Fiber spool and process. 1,699,704; Jan. 22.
- Lederer, Alphonse J., assignor to Henry Lederer & Bro., Inc., Providence, R. I. Pocket lighter. Des. 80,180; Dec. 24.
- Lederer, Anton, Vienna, Austria. Manufacturing carbon filaments. 1,700,901; Feb. 5.



- Lederer, Anton, Vienna, Austria. Apparatus for the manufacture of carbon. 1,700,942; Feb. 5.
- Lederer, Anton, Vienna, Austria. Manufacturing carbon. 1,725,359; Aug. 20.
- Lederer, Ernest A., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Evacuating audion tube. 1,699,597; Jan. 22.
- Lederer, Ernest A., East Orange, N. J., assignor to Westinghouse Lamp Company. Gettering electrical discharge devices. 1,733,809; Oct. 29.
- Lederer, Henry, & Bro. Inc. (See Butler, William J., assignor.)
- Lederer, Henry, & Bro., Inc. (See Lederer, Alphonse J., assignor.)
- Lederer, Henry, & Bro., Inc. (See Rosenthal, Jack, assignor.)
- Lederer, Irving R., Providence, R. I. Closure bar for open bail members. 1,709,179; Apr. 16.
- Lederer, Robert, Berlin-Wilmersdorf, Germany. Folding seat. 1,706,790; Mar. 26.
- Lederer, Sigmund L., Providence, R. I. Bracelet. Des. 78,036; Mar. 19.
- Lederer, Sigmund L., assignor to Providence Stock Company, Providence, R. I. Chain. 1,700,293; Jan. 29.
- Ledig, Willy. (See Loebe, W. W., and Ledig.)
- Le Doux, Louis A., Mount Angel, Oreg. Automatic grease cup. 1,793,888; Mar. 5.
- Ledwinka, Hans, Koprivnice, Czechoslovakia. Motor vehicle. 1,704,296; Mar. 5.
- Ledwinka, Hans, Koprivnice, Czechoslovakia. Motor vehicle. 1,733,688; Oct. 29.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile door. 1,701,574; Feb. 12.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Dovetail construction for vehicle doors. 1,701,623; Feb. 12.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. 1,703,114; Feb. 26.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Extensible door for vehicles. 1,709,941; Apr. 23.
- Ledwinka, Joseph, assignor to Edward C. Budd Manufacturing Company, Philadelphia, Pa. Closed-body vehicle construction. 1,720,336; July 9.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Metallic delivery body for motor vehicles. 1,724,719; Aug. 13.
- Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Metal-body structure for automobiles. 1,725,761; Aug. 27.
- Ledwinka, Joseph, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism. 1,731,581; Oct. 15.
- Ledwinka, Joseph, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism. 1,731,625; Oct. 15.
- Ledwinka, Joseph, assignor to E. G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body window construction. 1,731,629; Oct. 15.
- Lee, Albert P., Plymouth, Ind., assignor to Lee Trailer & Body Co., Chicago, Ill. Fifth-wheel structure. 1,737,724; Dec. 3.
- Lee, Albert W., assignor of forty-nine per cent to A. W. Hamby, Columbia, S. C. Joint. 1,722,003; July 23.
- Lee, Alfred, Bellingham, Wash. Auto signal. 1,723,429; Aug. 6.
- Lee, Aubrey M., assignor to Simplex Ice and Manufacturing Company, Dallas, Tex. Ice-retaining clip. 1,702,014; Feb. 12.
- Lee, Aubrey M., assignor to Simplex Ice and Manufacturing Company, Dallas, Tex. Delivery apparatus. 1,703,773; Feb. 26.
- Lee, Charles L., and T. C. Van Degriest, assignors to General Motors Research Corporation, Dayton, Ohio. Casting apparatus. 1,709,317; Apr. 16.
- Lee, Charles W., Lock Haven, Pa. Rail fastener. 1,708,765; Apr. 9.
- Lee, Chris W. (See Elliott, Ralph M., assignor.)
- Lee, Clarence S., Hamilton, Ontario, Canada. Key and card container. 1,701,209; Feb. 5.
- Lee, Daniel H., East St. Louis, Ill. Float-controlled valve. 1,700,360; Jan. 29.
- Lee, Daniel W., Seattle, Wash. Dispensing cap. 1,721,666; July 23.
- Lee, Dwight B., Detroit, Mich. Combined automobile body and hood. Des. 79,032; July 23.
- Lee, Edwin C., Augusta, Me. Chair for use in canoes and the like. 1,701,684; Feb. 12.
- Lee, Edwin M., assignor of one-half to G. O. Richardson, Fargo, N. Dak. Stand. 1,714,880; May 28.
- Lee Engineering Research Corporation. (See Lee, Royal, assignor.)
- Lee, Francis E., assignor of one-half to W. F. Bailey, Jersey City, N. J. Float valve. 1,729,484; Sept. 24.
- Lee, Garnett O., Lynchburg, Va. Reversible plow. 1,721,456; July 16.
- Lee, George E., Wilkes-Barre, Pa. Conveying apparatus. 1,720,843; July 16.
- Lee, George P., North Chicago, Ill., and W. T. Lewis, assignors to Western Coil & Electrical Co., Racine, Wis. Suspension parts. 1,704,570; Mar. 5.
- Lee, Gustav A., Reardan, Wash. Latch fastener. 1,719,272; July 2.
- Lee, Harry S., Plymouth, Mich. Mold coating. 1,735,120; Nov. 12.
- Lee, Horace W., assignor to Kapella Limited, Leicester, England. Photographic objective. 1,739,512; Dec. 17.
- Lee, John H. (See Martin, William C., assignor.)
- Lee, John J., Carrington, N. Dak. Threshing machine. 1,731,142; Oct. 8.
- Lee, K. O., & Son Company, The. (See Furnis, Theodore S., assignor.)
- Lee, Leif, Youngstown, Ohio. Heating furnace. 1,703,676; Feb. 26.
- Lee, Leif, Youngstown, Ohio. Pickling machine. 1,716,068; June 4.
- Lee, Nixon. (See Cunniff, B., and Lee.)
- Lee, Nixon, and A. P. Stiansen, assignors to National Seal Company, Inc., Brooklyn, N. Y. Bottle-sealing machine. 1,706,174; Mar. 19.
- Lee, Ralph E., assignor to The E. V. Benjamin Company, Inc., trading as Maginnis Cotton Mills, New Orleans, La. Overall garment. 1,718,051; June 18.
- Lee, Ralph L., assignor to Delco-Light Company, Dayton, Ohio. Endless belt for roller wringers. 1,698,100; Jan. 8.
- Lee, Ralph L., assignor to Delco-Light Company, Dayton, Ohio. Domestic appliance. 1,699,598; Jan. 22.
- Lee, Ralph L., assignor to Delco-Light Company, Dayton, Ohio. Domestic appliance. 1,699,599; Jan. 22.
- Lee, Ralph L., assignor to Delco-Light Company, Dayton, Ohio. Domestic appliance. 1,721,565; July 23.
- Lee, Ralph L., assignor to Delco-Light Company, Dayton, Ohio. Domestic appliance. 1,725,762; Aug. 27.
- Lee, Robert E., Cincinnati, Ohio. Gravity-feed bottle cooling and dispensing cabinet. 1,717,984; June 18.
- Lee, Robert Y. H. (See Rogers, A., and Lee.)
- Lee, Roger K., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Motor mounting. 1,717,711; June 18.
- Lee, Roger K., assignor to General Motors Research Corporation, Detroit, Mich. Synchronous motor mounting. 1,723,430; Aug. 6.
- Lee, Roger K., assignor to General Motors Corporation, Detroit, Mich. Motor mounting. 1,729,394; Sept. 24.
- Lee, Royal, assignor to Lee Engineering Research Corporation, Milwaukee, Wis. Communication system. 1,725,533; Aug. 20.
- Lee, Thomas F. E., Goshen, N. Y. Fuel-combustion chamber for gas burners. 1,703,115; Feb. 26.
- Lee, Thomas J., Detroit, Mich. Heater for aeroplanes. 1,705,126; Mar. 12.
- Lee, Thomas W. (See Gearhart, Roy E., assignor.)
- Lee Trailer & Body Co. (See Lee, Albert P., assignor.)
- Lee, U. G., & Co. (See Lee, Ulysses G., assignor.)
- Lee, Ulysses G., assignor to U. G. Lee & Co., Inc., Chicago, Ill. Water-closet installation. 1,732,192; Oct. 15.
- Lee, Walter H., et al. (See Bradley, James, assignor.)
- Lee, William P., Northfield, Minn. Humidifier. 1,732,055; Oct. 15.
- Lee, William S., R. Pfahler, and D. Nabow, Charlotte, N. C. Hydraulic gate-operating mechanism. 1,741,320; Dec. 31.
- Lee, William S. (See Chase, T. P., and Lee.)
- Leece, Bennett M., assignor to The Leece-Neville Company, Cleveland, Ohio. Generator. 1,701,047; Feb. 5.
- Leece-Neville Company, The. (See Leece, Bennett M., assignor.)
- Leech, Aubrey B., Los Angeles, Calif. Apparatus for producing motion-picture effects. 1,714,717; May 28.
- Leech, Aubrey B., Los Angeles, Calif. Apparatus for producing motion-picture effects. 1,719,939; July 9.
- Leech, Hilton, East Haven, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 79,376; Sept. 10.
- Leech, Jacob T., Beaver, assignor to Union Drawn Steel Company, Beaver Falls, Pa. Apparatus for straightening metal bars and shapes. 1,736,976; Nov. 26.
- Leech, John, Bridgeport, assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 78,981; July 16.
- Leeds, Henry. (See White, John R., assignor.)
- Leeds & Northrup Company. (See Baylis, John R., assignor.)
- Leeds & Northrup Company. (See Parker, Henry C., assignor.)
- Leeds & Northrup Company. (See Smith, Irving B., assignor.)
- Leedy Manufacturing Company. (See Strupe, Cecil H., assignor.)
- Leedy Manufacturing Company of Indianapolis, Ind. (See Strupe, Cecil H., assignor.)
- Leege, Karl, Cologne, Germany. Laying-over device for reaping and binding machines. 1,725,873; Aug. 27.
- Leeper, John B., Glenfield, Pa. Cross-arm attachment for poles. 1,716,702; June 11.
- Lees-Bradner Company, The. (See Bayton, Edward A., assignor.)
- Lees-Bradner Company, The. (See Schurr, Charles H., assignor.)
- Lees, Henry, and Company. (See Biles, Andrew W., assignor.)
- Leeson, Bruce H., Tynemouth, and R. W. Biles, Balcombe, assignors to A. Reyrolle & Company Limited, Hibburn-on-Tyne, England. Electric protective system. 1,698,337; Jan. 8.
- Leeson, Stanley R. (See McCarty, Madison P., assignor.)



- Leet, Charles N., Chicago, Ill. Locking device. 1,711,535; May 7.
- Leete, Murray B., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 77,645; Feb. 5.
- Leeman, Stephen E., Wilmette, Ill. Tailor's adjustable pre-try-on garment. 1,732,369; Oct. 22.
- Lefebvre Corporation. (See Dunbar, Charles J., assignor.)
- Le Febure Ledger Company. (See Le Febure, Leo T., assignor.)
- Le Febure, Leo T., assignor to Le Febure Ledger Company, Cedar Rapids, Iowa. Binder tray. 1,736,925; Nov. 26.
- Le Febure, Leo T., assignor to Le Febure Ledger Company, Cedar Rapids, Iowa. Binder tray. 1,736,926; Nov. 26.
- Lefebvre, Albert, Pre-St.-Gervais, France. Lubricating apparatus with multiple pumps. 1,707,915; Apr. 2.
- Lefebvre, George, Lawrence, Mass. Detachable holder. 1,710,457; Apr. 23.
- Lefevre, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Liquid gun. 1,706,532; Mar. 26.
- Le Fever, Daniel M., Solvay Station, assignor to Pass & Seymour, Inc., Solvay, N. Y. Canopy switch. 1,711,417; Apr. 30.
- Le Fever, Daniel M., assignor to Pass & Seymour, Incorporated, Syracuse, N. Y. Sign receptacle. 1,741,723; Dec. 31.
- Leffer, Louis G., Kapellen, near Neuss Rhineland, assignor to H. Bachstein, Berlin, Germany. Manufacture of soft soap. 1,710,799; Apr. 30.
- Leffert, Charles B., assignor to United States Tent & Awning Company, Chicago, Ill. Tent-door arrangement. 1,704,945; Mar. 12.
- Leffert, Charles B., assignor to United States Tent & Awning Company, Chicago, Ill. Tent pole. 1,734,170; Nov. 5.
- Left, Ruby, New York, N. Y. Stocking. Des. 78,524; May 14.
- Left, Ruby, New York, N. Y. Stocking. Des. 78,639; May 28.
- Left, Ruby, New York, N. Y. Stocking. Des. 79,876; Nov. 5.
- Lefell, Alfred E., San Francisco, Calif. Automatic spacer for smokehouse trolleys. 1,717,233; June 11.
- Lefland, Paul W., Dallas, Tex. Composition of matter. 1,728,906; Sept. 3.
- Leffler, Arthur. (See Cassel, Gunnar E., assignor.)
- Lefler, Melvin N. (See Lundelius, D. F., and Lefler.)
- Le Flore, Joseph, Garden Grove, Calif. Casing-shoe nozzle. 1,715,767; June 4.
- Legard, Victor. (See Dufau, H., and Legard.)
- Legat, Robert C., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn. Key case. 1,796,175; Mar. 19.
- Legeler, Eberhard, and P. Esselmann, Premnitz, Westhavelland, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-main, Germany. Continuous purification of crude carbon disulphide. 1,728,686; Sept. 17.
- Legendre, René A., Paris, France. Preservation of flour, grain, grain by-products, or the like. 1,702,735; Feb. 19.
- Legendre, Georges F., assignor to the firm Société des Etablissements Barbet, Paris, France. Rectification of acetic acid. 1,698,798; Jan. 15.
- Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oscillograph galvanometer. 1,697,191; Jan. 1.
- Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oscillograph galvanometer. 1,712,570; May 14.
- Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Galvanometer. 1,728,555; Sept. 17.
- Legg, Joseph W., Wilkinsburg, Pa., assignor to Western Electric & Manufacturing Company. Oscillograph. 1,734,217; Nov. 5.
- Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for controlling vibratory systems. 1,736,500; Nov. 19.
- Legg, Victor E., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Treatment of magnetic materials. 1,715,713; June 4.
- Legg, Victor E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Composite conductor. 1,719,479; July 2.
- Legg, Victor E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Composite conductor. 1,727,550; Sept. 10.
- Legge, Alfred G., Brockton, and M. L. Alger, Easton, assignors to C. S. Pierce Company, Brockton, Mass. Method of and apparatus for the manufacture of hollow shoe forms. 1,706,303; Mar. 19.
- Legge, Alfred G., assignor to C. S. Pierce Company, Brockton, Mass. Shoe form. 1,725,589; Aug. 20.
- Legge, Peter S., Somerville, Mass. Sawing machine. 1,706,406; Mar. 26.
- Legge, Peter S., Somerville, Mass. Saw. 1,736,607; Nov. 19.
- Legge, Peter S., Somerville, Mass. Saw. 1,736,608; Nov. 19.
- Legge, Peter S., Somerville, Mass. Edging machine. 1,741,321; Dec. 31.
- Legge, Peter S., Pompton Lakes, N. J. Stone-working machine. 1,741,322; Dec. 31.
- Le Gore, Roy, Churdan, Iowa. Knife handle. 1,737,656; Dec. 3.
- Leguillon, Charles W. (See Goodwin, J. O., and Leguillon.)
- Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tube-stripping method and apparatus. 1,709,942; Apr. 23.
- Lehman, Arthur J., Cannelton, Ind. Nursery chair. Des. 77,605; Jan. 29.
- Lehman, Arthur J., Cannelton, Ind. Swing or similar article. Des. 77,606; Jan. 29.
- Lehman, Ernst P. (See Schmidt, Hermann, assignor.)
- Lehman, Ernst Paul, Patentwerk. (See Richter, Johannes, assignor.)
- Lehman, George E., and J. Pensak, Brooklyn, N. Y. Reference card. 1,711,895; May 7.
- Lehman, Joseph H., Hasbrouck Heights, N. J., assignor to Lehman Rotary Valve Co., Inc., New York, N. Y. Rotary valve. 1,731,015; Oct. 8.
- Lehman, Joseph H., Hasbrouck Heights, N. J., assignor to Lehman Rotary Valve Co., Inc., New York, N. Y. Rotary valve. 1,731,016; Oct. 8.
- Lehman, Louis H., Philadelphia, Pa. Shower-stall door. 1,708,545; Apr. 9.
- Lehman, Max R., Quincy, assignor to Orbon Stove Co., Belleville, Ill. Stove casing. Des. 78,397; Apr. 30.
- Lehman, Max R., Quincy, assignor to Orbon Stove Co., Belleville, Ill. Stove casing. Des. 79,235; Aug. 20.
- Lehman, Max R., Quincy, assignor to Orbon Stove Co., Belleville, Ill. Stove casing. Des. 80,238; Dec. 31.
- Lehman, Max R., Quincy, assignor to Orbon Stove Co., Belleville, Ill. Stove top. 1,705,577; Mar. 19.
- Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Applying treads to tire casings. 1,706,697; Mar. 26.
- Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tread-applying mechanism. 1,706,698; Mar. 26.
- Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bead setter. 1,711,057; Apr. 30.
- Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of inner tubes. 1,711,058; Apr. 30.
- Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of pneumatic tire casings. 1,723,562; Aug. 6.
- Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Manufacture of pneumatic tire casings. 1,723,563; Aug. 6.
- Lehman, Paul W., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,737,116; Nov. 26.
- Lehman Rotary Valve Co. (See Lehman, Joseph H., assignor.)
- Lehman, Werner, assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Excavator or the like. 1,724,207; Aug. 13.
- Lehmann, August J., Philadelphia, Pa. Cap remover. 1,721,823; July 23.
- Lehmann, Carlissa, San Francisco, Calif. Multibead sewing machine. 1,704,009; Mar. 5.
- Lehmann, Emil, assignor of one-half to R. A. Riek, Rhineland, Wis. Hood cover. 1,738,438; Dec. 3.
- Lehmann, Ernst P., Brandenburg-on-the-Havel, Germany. Toy figure. 1,714,031; May 21.
- Lehmann, Ernst P., assignor to the firm Ernst Paul Lehmann, Patentwerk, Brandenburg-on-the-Havel, Germany. Gyrostatic toy. 1,710,219; Apr. 23.
- Lehmann, Ernst P., Patentwerk. (See Richter, Johannes, assignor.)
- Lehmann, Ernst Paul, Patentwerk. (See Lehmann, Ernst P., assignor.)
- Lehmann, J. M., Company. (See Hollstein, Paul G., assignor.)
- Lehmann Machine Company. (See Seward, Ernest R., assignor.)
- Lehmann, Otto P. R., Newark, N. J. Oven. 1,734,138; Nov. 5.
- Lehmann, Otto, Bienne, Switzerland. Device for removing foreign bodies from the gullet of animals, especially of ruminants. 1,735,287; Nov. 12.
- Lehmann, Wesley G., and D. T. Owen, assignors to The Owen Automatic Spring Machinery Company, Cleveland, Ohio. Machine for fabricating wire-spring structures. 1,705,821; Mar. 19.
- Lehnen, Edward C., Chicago, Ill. Gas washer. 1,732,533; Oct. 22.
- Lehnert, Henry W. A., Brooklyn, N. Y. Mixing and distributing valve. 1,732,608; Oct. 22.
- Lehnert, Henry W. A., New York, N. Y. Valve handle. 1,730,579; Oct. 8.
- Lehnhoff, Heinrich. (See Schlesinger, A., and Lehnhoff.)
- Lehon Company, The. (See Moone, Albert E. F., assignor.)
- Lehr, Arthur, Hamburg, Germany. Marine life-saving apparatus. 1,741,851; Dec. 31.
- Lehr, Charles E., Bethlehem, Pa., assignor to Bethlehem Steel Company. Straightening press. 1,720,083; July 9.
- Lehr, Edward H., Conemaugh, Pa. Air-pressure valve. 1,734,298; Nov. 5.



- Leib, August, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Apparatus for varying electrical values. 1,708,546; Apr. 9.
- Leib, Frank A., Santa Clara County, Calif. Releasing attachment for electric starting motors. 1,714,793; May 28.
- Leibing, William E., San Francisco, Calif. Building. Des. 78,638; May 28.
- Leibing, William E., Oakland, Calif. Carburetor. 1,733,668; Oct. 29.
- Leibing, William E., Oakland, assignor to Magnus Fruit Products Co., San Francisco, Calif. Refrigerating apparatus. 1,708,390; Apr. 9.
- Leiboff, Samuel L., New York, N. Y. Apparatus for extracting cholesterol from blood. 1,722,435; July 30.
- Leibold, Jacob G., San Francisco, Calif. Sleeping bag. 1,699,002; Jan. 15.
- Leibowitz, Isaac, Brooklyn, N. Y. Calendar panel. Des. 77,697; Feb. 12.
- Leibowitz, Isaac, Brooklyn, N. Y. Ash sifter. 1,717,514; June 18.
- Leibowitz, Meyer N., et al. (See Nakken, Theodorus H., assignor.)
- Leibowitz, Meyer N., et al. (See Ruttenberg, S., and Mierendorff, assignors.)
- Leicht, John, jr., Burlington, Iowa. Bag holder. 1,723,794; Aug. 6.
- Leidecker Tool Company, The. (See Harralson, Charles L., assignor.)
- Leidgen, Nicholas C., Detroit, Mich. Mop. 1,700,136; Jan. 29.
- Leigh Banana Case Company. (See Leigh, Carl G., assignor.)
- Leigh, Carl G., assignor to Leigh Banana Case Company, Chicago, Ill. Shipping container. 1,720,337; July 9.
- Leigh, Maurice, Chicago, Ill. Display frame. Des. 78,470; May 7.
- Leigh Potters, Inc. (See Turnbull, Daniel G., assignor.)
- Leightman, Alex. (See Urbanek, John A., assignor.)
- Leighton, John M., Belfast, Ireland. Apparatus for lining walls of shafts, caissons, and the like. 1,727,996; Sept. 10.
- Leighton, Herbert J., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Providing so-called gear blanks with internal clutch faces. 1,706,791; Mar. 26.
- Leighton, John M., Belfast, Northern Ireland. Cavity wall hot and cool air circulation. 1,706,893; Mar. 26.
- Lellich, Wilhelm. (See Nobst, G., and Ulbricht, assignors.)
- Leimer, Eugene E., Pender, Nebr. Toothpick dispenser. 1,713,441; May 14.
- Leinbach, Edward L., Chicago, Ill. Container closure. 1,715,136; May 28.
- Leinert, Charles H., assignor to Leinert Valve Company, Chicago, Ill. Valve for compressors. 1,700,372; Jan. 29.
- Leinert, Charles H., assignor to Leinert Valve Company, Chicago, Ill. Valve for compressors. 1,735,205; Nov. 12.
- Leinert Valve Company. (See Leinert, Charles H., assignor.)
- Leipert, August H. (See Masury, A. F., and Leipert.)
- Leipert, August H., College Point, assignor to International Motor Company, New York, N. Y. Eductor for ventilating internal-combustion engines. 1,704,297; Mar. 5.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Resilient coupling. 1,707,309; Apr. 2.
- Leipert, August H., New York, N. Y., assignor to The Rubber Shock Insulator Corporation, Wilmington, Del. Mounting for electric conductors. 1,717,885; June 18.
- Leipert, August H., College Point, assignor to International Motor Company, New York, N. Y. Seat for vehicles. 1,720,485; July 9.
- Leipert, August H., College Point, assignor to International Motor Company, New York, N. Y. Making valve seats. 1,720,486; July 9.
- Leipert, August H., College Point, New York, N. Y., assignor, by mesne assignments, to The Rubber Shock Insulator Corporation, Wilmington, Del. Nonmetallic paving block and manufacturing the same. 1,733,610; Oct. 29.
- Leisy, Clifford J., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Airplane. 1,698,849; Jan. 15.
- Leitch, Frank E., assignor to Stamford Wall Paper Company, Incorporated, Stamford, Conn. Wall paper or the like. Des. 78,871; June 25.
- Leitch, Frank E., assignor to Stamford Wall Paper Company, Incorporated, Stamford, Conn. Wall paper or the like. Des. 79,091; July 30.
- Leiter, Friedrich F., Vienna, Austria. Endoscope. 1,741,575; Dec. 31.
- Leiter, Winifred D. (See Foulke, Roy D., assignor.)
- Leitner, Grant H., Toledo, Ohio. Signal means for automobiles. 1,711,269; Apr. 30.
- Leipziger Schnellpressenfabrik Akt.-Ges. Schmiere, Werner & Stein. (See Dexheimer, Christian, assignor.)
- Le Jeune, Frank H. (See Jacobi, E. R., and Le Jeune.)
- Le Jeune, Frank H., and E. R. Jacobi, Jackson, assignor, by mesne assignments, to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Disk wheel. 1,714,512; May 28.
- Lejeune, Sydney M., and H. S. Petch, London, England, assignors to General Electric Company. Protective arrangement. 1,723,870; Aug. 6.
- Leka, Theodor, New York, N. Y. Manually-driven aeroplane. 1,736,541; Nov. 19.
- Leland Electric Company, The. (See Leland, George H., assignor.)
- Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Electric motor. 1,737,595; Dec. 3.
- Leland, George H., assignor to Leland Electric Company, Dayton, Ohio. Brush-lifting mechanism for electric motors or the like. 1,698,799; Jan. 15.
- Leland, George H., assignor of one-half to The Leland Electric Company, Dayton, Ohio. Brush-lifting device. 1,706,068; Mar. 19.
- Leland, George H., assignor to The Leland Electric Company, Dayton, Ohio. Short-circuiting device for motors. 1,713,610; May 21.
- Leland, Warren S. D. (See Vaughan, R. E., Redman, and Leland.)
- Lelivelt, Joseph W., jr. (See Arndt, J. P., and Lelivelt, assignors.)
- Lelong, Louis, South Orange, N. J. Lingual bar. 1,732,021; Oct. 15.
- Lemann, William J. (See Robinson, F. W., and Lemann.)
- Lemasson, Roger P. F., and E. H. Martin, Paris, France. Valve gear for piston engines. 1,721,457; July 16.
- Lemaster, Charles A. (See Strader, Earl M., assignor.)
- Le May, John, assignor to Aurora Metal Company, Aurora, Ill. Packing. 1,735,466; Nov. 12.
- Lemay, Sylvio, Manchester, N. H. Curtain stretcher. 1,717,985; June 18.
- Lemberger, Fritz. (See Erhart, J., Lemberger, and Hehle.)
- Lemcke, Heinrich, Hilden, Germany. Apparatus for casting hollow ingots. 1,698,308; Jan. 8.
- Lemery, Charles H., Sacramento, Calif. Air cleaner and collector. 1,715,298; May 28.
- Lemétais, Julien A., Paris, France. Tap for washstands for cold and hot water and for mixing them. 1,732,097; Oct. 15.
- Lemex, John D., Tulsa, Okla. Casing-head appliance for oil wells. 1,715,846; June 4.
- Lemex, John D., Tulsa, Okla., assignor to Oil Well Supply Company, Pittsburgh, Pa. Tubing hanger. 1,722,053; July 23.
- Lemieux, David, Lewiston, Me. Feeler or filling detector. 1,734,525; Nov. 5.
- Lemieux, Frank J., Central Falls, R. I. Piston. 1,723,187; Aug. 6.
- Lemm, Gotthard J., Tacoma, Wash. Sink strainer. 1,741,242; Dec. 31.
- Lemmer, William F., Kootenai, Idaho, assignor to Union Iron Works, Spokane, Wash. Saw guide. 1,725,089; Aug. 20.
- Lemmerhart, Robert C. (See Jannenga, R. L., and Lemmerhart.)
- Lemmon, George N., Birmingham, Ala. Electric switch. 1,700,268; Jan. 29.
- Lemmon, Geo. N. (See Ferrill, Richard M., assignor.)
- Lemmon, Rees H. (See Yerkes, J. A., and Lemmon.)
- Lemmon, Rees H., Los Angeles, Calif. Pump barrel. 1,707,667; Apr. 2.
- Lemmon, Walter S., New York, N. Y. Electrical condenser. 1,702,833; Feb. 19.
- Lemoine, Renée M.-L., née Trouillet, La Buissonniere par Perriers-sur-Andelle, France. Atomizer. 1,714,129; May 21.
- Lemon, Harvey B., Chicago, Ill. Increasing the adsorptive power of charcoal. 1,699,243; Jan. 15.
- Lemont, Clarence J., assignor to Line Material Company, South Milwaukee, Wis. Conveyor and tumbler for article-coating apparatus. 1,720,131; July 9.
- Le Mout, Eugène H., Paris, France. Article decorated by means of the wings of insects. 1,721,741; July 23.
- Lemp, Raymond A., Syracuse, N. Y. Lavatory drying device. 1,704,136; Mar. 5.
- Lempereur, Sébastien, Seine, and G. Regelsperger, Oise, France. Reproducing apparatus. 1,706,238; Mar. 19.
- Le Mur Company, The. (See Lewis, W. S., and Murray, assignors.)
- Lenart, Paul, Cologne, Germany. Mixing apparatus. 1,706,176; Mar. 19.
- Lencke, John K., Kingston, N. Y. Mail or express car. 1,719,985; July 9.
- Lenehan, Bernard E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Frequency meter. 1,697,192; Jan. 1.
- Lenehan, Bernard E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,715,663; June 4.
- Lenehan, Bernard E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reactive volt-ampere meter. 1,732,687; Oct. 22.
- Lenehan, Bernard E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and apparatus for measuring volt amperes. 1,732,726; Oct. 22.
- Lenderking, William R., Baltimore, Md. Seam for paper cans. 1,716,965; June 11.
- L'Enfant, Charles, assignor of one-half to M. Ecker, New York, N. Y. Picture frame. 1,702,263; Feb. 19.
- L'Enfant, Charles, New York, N. Y. Container. 1,705,284; Mar. 12.
- L'Enfant, Charles, New York, N. Y. Container. 1,735,323; Nov. 12.
- L'Enfant, Charles, New York, N. Y. Container. 1,735,324; Nov. 12.
- L'Enfant, Charles, New York, N. Y. Container. 1,735,325; Nov. 12.



- L'Enfant, Charles, New York, N. Y. Bill fold. 1,737,972; Dec. 3.
- L'Enfant, Charles, New York, N. Y. Assembling device. 1,739,762; Dec. 17.
- Leng, John H., assignor to National Biscuit Company, New York, N. Y. Collapsible display rack. 1,713,667; May 21.
- Lengel, William L., assignor to The Nolde and Horst Company, Reading, Pa. Take-up mechanism for knitting machines. 1,697,193; Jan. 1.
- Lengsfeld Brothers. (See Lengsfeld, Byron H., assignor.)
- Lengsfeld, Byron H., assignor to Lengsfeld Brothers, New Orleans, La. Garment carton. Re17,177; Jan. 1.
- Lenhard, Wolfgang. (See Rosenthal, L., and Lenhard.)
- Lenhart, Elenious D., Howard, S. Dak. Moving-machine construction. 1,723,976; Aug. 6.
- Lenk, Gus F., Dallas, Tex. Charging apparatus for incinerators. 1,740,610; Dec. 24.
- Lennard, Thomas C. (See Rankine, D., Ross, and Lennard.)
- Lenney, Clarence B. and G. P., assignors to The Youngstown Pressed Steel Company, Warren, Ohio. Ironing table. 1,740,183; Dec. 17.
- Lenney, George P. (See Lenney, Clarence B. and G. P.)
- Lenning, Alvar, Newburg, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,709,588; Apr. 16.
- Lennon, Henry E., Milford, N. H. Turf cutter. 1,732,941; Oct. 22.
- Lennon, Howard, Coshocton, Ohio. Spraying device. 1,727,294; Sept. 3.
- Lennon, Patrick T., assignor to The Kelly Reamer Company, Cleveland, Ohio. Universal radial grinding machine. 1,734,735; Nov. 5.
- Lennox, John S., Pittsfield, Mass., assignor to General Electric Company. Protective arrangement. 1,701,379; Feb. 5.
- Lenouvel, Jules L., and P. Chapsal, Paris, France, assignors to Magnetyp S. A., Cologne, Switzerland. Machine for setting up and printing music. 1,726,110; Aug. 27.
- Lenox, Inc. (See Holmes, Frank G., assignor.)
- Lenox, William, Russell, N. Y. Bedstead. 1,734,218; Nov. 5.
- Lent, Alvah D. (See Lent, Alvah F. and A. D.)
- Lent, Alvah F., deceased, by I. Hawkins-Lent, East Orange, administratrix, and A. D. Lent, Newark, N. J. Toy parachute. 1,723,793; Aug. 6.
- Lentheric, Incorporated. (See de Wagner, Maggy B., assignor.)
- Lentini, Joseph, Kenner, La. Protection of films against fire. 1,717,234; June 11.
- Lents, John M., and F. R. Miller, Evansville, Ind., assignors to The Owens Bottle Company, Toledo, Ohio. Apparatus for fire finishing glass articles. 1,718,654; June 25.
- Lentz, George W., assignor, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio. Sheet-stacking machine. 1,727,209; Sept. 3.
- Lentz, George W., assignor to The Bonnot Company, Canton, Ohio. Sheet stacker. 1,739,319; Dec. 10.
- Lentz, Harry R., assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Clamp for positioning and holding beams for welding. 1,706,670; Mar. 19.
- Lentz, John A., Phoenix, Ariz. Casting machine. 1,698,197; Jan. 8.
- Lentz, Laurence E., Harrisburg, Pa., assignor to Elliott-Fisher Company. Carbon set or pile. 1,702,834; Feb. 19.
- Lenz, Charles S., and G. E. Jupp, assignors to American Marine Device Corporation, New York, N. Y. Oil separator. 1,708,021; Apr. 9.
- Lenz, William A., Lebanon, Mo. Photoprint washer. 1,720,557; July 9.
- Leo, Jack G., assignor to Fox Film Corporation, New York, N. Y. Film-splicing machine. 1,714,605; May 28.
- Leo, Stephen J., Jersey City, N. J. Carton for holding vacuum tubes an the like. 1,710,543; Apr. 23.
- Leon, Harry H. (See Richman, M., and Leon.)
- Leon, Lewicki J., assignor to State Bank of Chicago, trustee, Chicago, Ill. Stand. 1,706,239; Mar. 19.
- Leon, Ricardo, assignor to Compania Agricola Miraflores, S. A., Moron, Cuba. Truck. 1,714,333; May 21.
- Leon, Lewicki J., West Chicago, Ill., assignor, by mesne assignments, to The Andrew B. Hendryx Company. Metal band. 1,729,661; Oct. 1.
- Leon, Peter, Bridgeport, Conn. Internal-combustion engine. 1,730,079; Oct. 1.
- Leonhardt, Andrew W., Cleveland, Ohio. Disappearing support. 1,741,703; Dec. 31.
- Leonard-Rooke Co. (See Leonard, Frederick C., assignor.)
- Leonard, Caleb E., Miami, Fla. Air-cooled spark plug. 1,721,158; July 16.
- Leonard, Charles E., assignor of one-half to D. Rolli, Anselmo, Nebr. Adjustable windshield sunshade. 1,700,171; Jan. 29.
- Leonard, Charles W., Richmond, Va. Valve mechanism. 1,733,309; Oct. 29.
- Leonard, Edwin D., assignor to Interstate Iron and Steel Company, Chicago, Ill. Strip-feeding machine. 1,735,288; Nov. 12.
- Leonard, Francis H. (See Reid, Robert and A. S., and Leonard.)
- Leonard, Foster A., et al. (See Thomas, William M., assignor.)
- Leonard, Frederick C., assignor to Leonard-Rooke Co., Providence, R. I. Welding apparatus. 1,738,592; Dec. 10.
- Leonard, Harry A., assignor to Draper Corporation, Hopedale, Mass. Warper-driving mechanism. 1,725,736; Aug. 20.
- Leonard, Harry A., assignor to Draper Corporation, Hopedale, Mass. Builder mechanism for spinning or winding machines. 1,734,947; Nov. 5.
- Leonard, Herman H., assignor to Davis & Furber Machine Company, North Andover, Mass. Drive for spinning frames or similar machines. 1,707,916; Apr. 2.
- Leonard, Howard M., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,699,539; Jan. 22.
- Leonard, Howard M., South Bend, Ind., assignor to Germandt Motor Corporation, Chicago, Ill. Fuel-feeding means. 1,710,365; Apr. 23.
- Leonard, Jean, Los Angeles, Calif. Demountable-rim attachment. 1,708,676; Apr. 9.
- Leonard, Nestor, Feignies, France. Cast frame for railway rolling stock. 1,735,971; Nov. 19.
- Leonard, Peter G., West Tulsa, Okla. Tubing catcher. 1,705,192; Mar. 12.
- Leonard, Roy E., Los Angeles, Calif., assignor of one-half to D. G. Lorraine, Dallas, Tex. Long-stroke pump-operating mechanism. 1,705,930; Mar. 19.
- Leong, Quan J. (See Miller, T. S., and Leong.)
- Leong, Silvester V., Chicago, Ill. Spraying or atomizing device. 1,716,525; June 11.
- Leonhauser, Henry A. (See Clark, A. T., Leonhauser and Jester.)
- Leopold Automobile Products Corporation. (See Pilblad, Eric J., assignor.)
- Le Page, Charles E., Brooklyn, N. Y. Refuse vehicle. 1,721,400; July 16.
- Lepere, Eugene M. G., Paris, France. Arrangement for mounting radiators in aeroplane wings. 1,730,978; Oct. 8.
- Lepley, Daniel F. (See Allen, A., and Lepley.)
- Lepley, Paul V., executor. (See Allen, A., and Lepley.)
- Le Prieur, Yves, P. G., assignor to Société Anonyme la Precision Moderne, Paris, France. Carriage for anti-aircraft guns. 1,700,902; Feb. 5.
- Le Quornik, Eugene. (See Williams, J. A., and Le Quornik.)
- Lerner, Arthur, Toronto, Ontario, Canada. Marker. 1,723,046; Aug. 6.
- Lerner, Samuel M., Los Angeles, Calif. Sash holder. 1,732,479; Oct. 22.
- Lepsoe, Robert, Trail, British Columbia, Canada. Production of zinc. 1,738,910; Dec. 10.
- Lerch, William G., Akron, assignor to The India Tire & Rubber Company, Mogadore, Ohio. Marking tires. 1,741,997; Dec. 31.
- Lerchen, Edward H. (See Coombes, W. E., and Lerchen.)
- Lerciu, Achille. (See Lozai, A., and Lerciu.)
- Leriche, Willis. (See Collier, B. C., Leriche, and Evans.)
- Lerner, Harry, Brooklyn, and A. Ginsburg, New York, N. Y. Sweetmeats frame. Des. 78,471; May 7.
- Lerner, Morris, Newark, N. J. Knitting machine. 1,721,824; July 23.
- Le Roi Company. (See Pendock, Charles W., assignor.)
- Le Roy, Bernard L., Massillon, Ohio. Bending and clinching machine. 1,720,133; July 9.
- Le Roy, Walter E., Cincinnati, Ohio, assignor to Union Special Machine Company, Chicago, Ill. One-piece shirt-plait folder. 1,712,962; May 14.
- Le Roy, Walter E., and W. B. Foster, Cincinnati, Ohio, assignors to Union Special Machine Company, Chicago, Ill. Machine for making and applying waistbands to trousers. 1,712,305; May 7.
- Le Rud, Gustav, Argusville, N. Dak. Belt guide. 1,741,852; Dec. 31.
- Lesage, Aaron D. (See Shreffler, E. O., and Lesage.)
- Le Sauvage, George R., assignor to The Republic Metalware Co., Buffalo, N. Y. Ash can and cover. 1,714,384; May 21.
- Leschen, A., & Sons Rope Company. (See Leschen, Harry J., assignor.)
- Leschen, Harry J., Webster Groves, assignor to A. Leschen & Sons Rope Company, St. Louis, Mo. Gauge. 1,721,600; July 23.
- Lescher, George W., Little Rock, Ark. Golf-bag-supporting device. 1,727,612; Sept. 10.
- Leschhorn, Ernest, Chicago, Ill., assignor to Latham Machinery Company. Wire-stitching machine. 1,708,314; Apr. 9.
- Leschke, August H., Pittsburgh, Pa. Cleaning device for railway cars. 1,740,546; Dec. 24.
- Lesh, Frank, assignor of one-half to J. D. Richie, Casper, Wyo. Bomb. 1,724,294; Aug. 13.
- Leshar, Earl W., Lakewood, Ohio. Roof or wall covering. 1,702,609; Feb. 19.
- Leshar, Earl W., Lakewood, Ohio. Wall construction and sections therefor. 1,732,056; Oct. 15.
- Leshar, Robert F. (See Leshar, Stephen R. and R. F.)
- Leshar, Stephen R. and R. F., assignors to Leshar Whitman & Co., Inc., New York, N. Y. Textile fabric. Des. 78,112; Mar. 26.
- Leshar, Stephen R. and R. F., assignors to Leshar Whitman & Co., Inc., New York, N. Y. Textile fabric. Des. 78,113; Mar. 26.
- Leshar, Whitman & Co. (See Castro, Jean and E., assignors.)
- Leshar, Whitman & Co. (See Karasz, Ilonke, assignor.)



- Leshner Whitman & Co. (See Leshner, Stephen R. and R. F., assignors.)
- Lesiak, Leonard L., Fullerton, Nebr. Pencil holder, 1,730,774; Oct. 8.
- Leskawa, Sigmund J., Youngstown, Ohio. Conveyer for a continuous normalizing furnace. 1,734,814; Nov. 5.
- Leslie, Bernard S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-handling apparatus. 1,733,351; Oct. 29.
- Leslie Company. (See Soderberg, Sten E. B., assignor.)
- Leslie, R. & W., Hawthorn & Company Limited. (See Armstrong, Robert B., assignor.)
- Leslie, Eugene H., Ann Arbor, Mich. Distillation. 1,730,892; Oct. 8.
- Leslie, Eugene H., and E. M. Baker, Ann Arbor, Mich. Process of and apparatus for distilling petroleum. 1,730,891; Oct. 8.
- Lespinat, Georges, and E. Kalbauf, Paris, France. Pivoting headlight. 1,704,046; Mar. 5.
- Lessard, George J., Santa Monica, Calif. Hasp. 1,725,657; Aug. 20.
- Lessard, George N., New York, N. Y. Electric shoe drier. 1,733,611; Oct. 29.
- Lessenhof, Carl W. (See Lessenhof, George F., J. H., C. W., and P. W.)
- Lessenhof, George F., Lincoln, Nebr. Ice-cream-can shipping case. 1,732,098; Oct. 15.
- Lessenhof, George F., J. H., C. W., and P. W., Lincoln, Nebr. Ice-cream-can shipping case. 1,732,099; Oct. 15.
- Lessenhof, John H. (See Lessenhof, George F., J. H., C. W., and P. W.)
- Lessenhof, Paul W. (See Lessenhof, George F., J. H., C. W., and P. W.)
- Lesser, Fischel P., Toronto, Ontario, Canada. Window advertising display. 1,700,943; Feb. 5.
- Lessing, Hans, Berlin-Charlottenburg, Germany. Fountain pen. 1,738,835; Dec. 10.
- Lessing, Rudolf, London, England. Treatment of materials with binders in the briquetting of said materials. 1,741,193; Dec. 31.
- Lessler, Lew W., Johnson City, and C. A. Bornmann, assignors to Agfa Ansco Corporation, Binghamton, N. Y. Camera front. 1,707,022; Mar. 26.
- Lessler, Lew W., Johnson City, and C. A. Bornmann, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Focusing device for cameras. 1,720,224; July 9.
- Lessler, Lew W., Johnson City, and C. A. Bornmann, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic camera. 1,725,460; Aug. 20.
- Lessman, Paul, Wakefield, Nebr. Harrow pole. 1,729,883; Oct. 1.
- Lessmann, Herbert F., Des Moines, Iowa. Scoop latching and controlling mechanism. 1,703,275; Feb. 26.
- Lessmann, Herbert F., Des Moines, Iowa. Loading attachment for tractors. 1,725,201; Aug. 20.
- Lessmann, Herbert F., Des Moines, Iowa. Portable and adjustable light. 1,739,641; Dec. 17.
- Lester, Burton, London, England. Amusement apparatus. 1,713,703; May 21.
- Lester, Nathan, assignor to P. & R. Tool Company, Inc., Worcester, Mass. Casting apparatus for laminated rotors. 1,735,049; Nov. 12.
- Leterme, Clovis, Ypres, Belgium, and M. Leterme, Briisous-Forges, France. Automatic machine for flax dressing. 1,715,768; June 4.
- Leterme, Maurice. (See Leterme, Clovis and M.)
- Letourneau, Orville L., assignor to G. M. Leach, Detroit, Mich. Foot attachment. 1,736,609; Nov. 19.
- Le Tourneau, Robert G., Stockton, Calif. Road scraper. 1,709,081; Apr. 16.
- Le Tourneau, Robert G., Upland, Calif. Operating structure for clamshell buckets. 1,737,252; Nov. 26.
- Letrillart, Pierre, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Paris, France. Cascade-connected asynchronous electrical machine. 1,733,810; Oct. 29.
- Letzinger, Johans W., La Grange, Tex. Insecticide distributor. 1,732,849; Oct. 22.
- Letz Manufacturing Company, The. (See Holland-Letz, Ludwig, assignor.)
- Leubuscher, Frederic C., et al., executors. (See Ingersoll, Robert H.)
- Leutz, Ferdinand, Hebron, N. Dak. Automobile combined seat and bed structure. 1,725,807; Aug. 27.
- Levan, John F., Elkhart, Ind., assignor to The Adams & Westlake Company, Chicago, Ill. Ventilating eaves. 1,700,501; Jan. 29.
- Levan, John F., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Sash construction. 1,700,502; Jan. 29.
- Levan, John F., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Sash guide. 1,732,850; Oct. 22.
- Levandoski, John. (See Marshall, W., and Levandoski.)
- Levandowski, Louis, Milwaukee, assignor to Olsen Manufacturing Company, Kenosha, Wis. Hydraulic jack. 1,699,897; Jan. 22.
- Lévy, Charles, Cannes, France. Automatic gun. 1,738,439; Dec. 3.
- Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Spindle lock. 1,708,183; Apr. 9.
- Levenson, Adolph, Long Island City, N. Y. Garment weight. 1,741,060; Dec. 24.
- Leventhal, Jacob F., New York, N. Y. Color photography. 1,697,194; Jan. 1.
- Leventhal, Mitchell, Brooklyn, assignor to Sosy, Inc., New York, N. Y. Lock frame. Des. 78,472; May 7.
- Leventhal, Mitchell, Brooklyn, assignor to Sosy, Inc., New York, N. Y. Lock. 1,717,930; June 18.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device. 1,702,351; Feb. 19.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,705,193; Mar. 12.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cast-off mechanism for sewing machines. 1,713,186; May 14.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,738,778; Dec. 10.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,739,241; Dec. 10.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving mechanism. 1,739,242; Dec. 10.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,739,243; Dec. 10.
- Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism for sewing machines. 1,739,244; Dec. 10.
- Le Veque, Florence L., Los Angeles, Calif. Woman's sock. Des. 80,128; Dec. 17.
- Le Veque, Florence L., Los Angeles, Calif. Woman's sock. Des. 80,129; Dec. 17.
- Le Veque, Florence L., Los Angeles, Calif. Woman's sock. Des. 80,130; Dec. 17.
- Lever, Eugene H., deceased, St. Louis, Mo.; T. Lever, executrix. Safe. 1,726,845; Sept. 3.
- Lever, John, and H. Hill, assignors to Dobson & Barlow Limited, Bolton, England. Washing, bleaching, and like machine. 1,728,767; Sept. 17.
- Lever, Tillie, executrix. (See Lever, Eugene H.)
- Levering, Floyd D., Detroit, Mich. Steam engine. 1,721,225; July 16.
- Levermore, Charles L., Rockville Center, Long Island, assignor to General Chemical Company, New York, N. Y. Roasting fines ore. 1,730,738; Oct. 8.
- Leyers, Roland E., Rocky Ford, Colo. Screening machine. 1,709,180; Apr. 16.
- Le Vesconte, Harold J. (See Christensen, N. V., and Le Vesconte.)
- Le Vesconte, Harold J., assignor to Union Special Machine Company, Chicago, Ill. Glove-sewing machine. 1,697,984; Jan. 8.
- Levesque, Alphee E. (See Clavette, Belonie, assignor.)
- Levi, Isaia, Turin, Italy. Fountain pen. 1,737,463; Nov. 26.
- Levi, S., et al. (See Athey, Richard H., assignor.)
- Levien, Louis, New York, N. Y. Ice bucket or similar receptacle. 1,711,536; May 7.
- Levien, Louis, New York, assignor to C. Michelbacher, Seagate, Long Island, N. Y. Serving tray. 1,711,502; May 7.
- Levin, Abraham S. (See Stein, M., and Levin.)
- Levin, Allan, Redditch, England, assignor to Svenska Akkumulator Aktiebolaget Jungner, Stockholm, Sweden. Electrode for alkaline accumulators. 1,708,889; Apr. 9.
- Levin, Axel L., deceased; K. P. Thomsen and E. Ronneberg, executors, assignors to Aktieselskabet Maskinkompagniet, Copenhagen, Denmark. Lasting machine for shoe wear. 1,724,295; Aug. 13.
- Levin, Harold L., Nutley, N. J., to The Flintkote Company, Boston, Mass. Manufacture of waterproof fibrous products. 1,723,361; Aug. 6.
- Levin, Harold L., Nutley, N. J., assignor to The Flintkote Company, Boston, Mass. Tree surgery. 1,726,708; Sept. 3.
- Levin, Harris, Freeport, N. Y. Producing finger-ring guards. 1,712,276; May 7.
- Levin, Louis, Galveston, Tex. Hat attachment. 1,715,201; May 28.
- Levin, Max, and J. R. Lopez, Miami Beach, Fla. Toy batsman. 1,728,799; Sept. 17.
- Levin, Michael, Brooklyn, N. Y. Closure for receptacles. 1,740,184; Dec. 17.
- Levin, Morris, Providence, R. I. Display device. 1,712,571; May 14.
- Levin, Nils D., assignor to Jeffrey Manufacturing Company, Columbus, Ohio. Coal-mining apparatus. Re17,305; May 28.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading machine. 1,700,294; Jan. 29.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading apparatus. 1,709,082; Apr. 16.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Equalizing mechanism. 1,726,034; Aug. 27.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. 1,726,846; Sept. 3.
- Levine, Abraham, Elizabeth, N. J., assignor to Presto Lock Corporation, New York, N. Y. Hanger-supporting device. 1,722,757; July 30.



- Levine, David I., assignor to Heywood-Wakefield Company, Wakefield, Mass. Car-seat back. 1,713,542; May 21.
- Levine, Harold, Newark, N. J. Rodent or the like diet cup. 1,741,194; Dec. 31.
- Levine, Hyman, assignor to The Falk Corporation, Milwaukee, Wis. Gear set. 1,704,298; Mar. 5.
- Levine, Joseph, assignor to Met-L-Wood Corporation, Chicago, Ill. Connection for veneered panels. 1,730,464; Oct. 8.
- Leyinger, David. (See Hosford, W. F., and Leyinger.)
- Levinson, David, assignor to Wilson-Western Sporting Goods Company, Chicago, Ill. Athletic shirt. 1,707,441; Apr. 2.
- Levinson, David, assignor to Wilson-Western Sporting Goods Company, Chicago, Ill. Protective pad for athletes. 1,733,160; Oct. 29.
- Levinson, Joseph H., New York, N. Y. Latch attachment. 1,721,345; July 16.
- Levinson, Marcus M., Altadena, Calif. Switch. 1,714,680; May 28.
- Levinson, Samuel I., Jersey City, N. J. Chair or similar article. Des. 79,973; Nov. 26.
- Levis, Charles U., Philadelphia, Pa. Water heater. 1,719,015; July 2.
- Levis, John H., jr., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,701,575; Feb. 12.
- Levis, John H., jr., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,701,576; Feb. 12.
- Levitt, Arthur F., Los Angeles, Calif. Combined grizzly and ball mill. 1,697,531; Jan. 1.
- Levitt, Max, Brooklyn, N. Y. Lady's garment. Des. 77,901; Mar. 5.
- Levitt, Max, Brooklyn, N. Y. Lady's garment. Des. 78,037; Mar. 19.
- Levitt, Max, Brooklyn, N. Y. Lady's coat. Des. 79,140; Aug. 6.
- Levitt, Max, Brooklyn, N. Y. Lady's coat. Des. 79,141; Aug. 6.
- Levitt, Max, Brooklyn, N. Y. Lady's coat. Des. 79,142; Aug. 6.
- Levitt, Max, Brooklyn, N. Y. Lady's coat. Des. 79,143; Aug. 6.
- Levitt, Max, Brooklyn, N. Y. Lady's coat. Des. 79,144; Aug. 6.
- Levitt, Max, Brooklyn, N. Y. Lady's coat. Des. 79,145; Aug. 6.
- Levitt, Max, Brooklyn, N. Y. Lady's coat. Des. 79,146; Aug. 6.
- Leykoff, Evelyn G., Rockaway Park, N. Y. Candy box. Des. 80,035; Dec. 3.
- Lewow, David, New York, N. Y. Leader strap. Des. 77,646; Feb. 5.
- Levy, Abraham. (See Castro, Frank L., assignor.)
- Levy, Abraham, New York, N. Y. Clock case. Des. 78,114; Mar. 26.
- Levy, Abraham, assignor to Ybry, Inc., New York, N. Y. Bottle. Des. 78,826; June 25.
- Levy, Arthur, M., assignor to Superlold Manufacturing Company, Inc., Brooklyn, N. Y. Ophthalmic mounting. 1,742,163; Dec. 31.
- Levy, Arthur S., Chicago, Ill. Process and apparatus for the standardized finishing of interchangeable artificial teeth. 1,706,980; Mar. 26.
- Levy, Barnett, Waverly, assignor to Penn Metal Company, Cambridge, Mass. Knockdown door frame. 1,723,281; Aug. 6.
- Levy, Cyril C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,726,908; Sept. 3.
- Levy, Cyril C., Pittsburgh, and C. Kragh, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Knife-blade switch. 1,740,547; Dec. 24.
- Levy, Edward J., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Thermostat. Re17,228; Mar. 5.
- Levy, Florian, Lake Charles, La. Garment supporter. 1,740,026; Dec. 17.
- Levy, George A., East St. Louis, Ill. Electric sign. 1,715,091; May 28.
- Levy, Isaac C., Jackson, Mich. Tie hanger. 1,722,669; July 30.
- Lévy, Jack R., assignor to Société en Commandite par Actions Oscar Lévy, ses Fils & Cie. (Société des Chaussures Cecil), Paris, France. Distributing device. 1,735,504; Nov. 12.
- Levy, Joseph. (See Marks, Albert J., assignor.)
- Levy, Joseph B. (See Post, Remsen F., assignor.)
- Levy, Lucien, Paris, France. Radio receiving system. 1,705,412; Mar. 12.
- Levy, Lucien, Paris, France. Loud-speaker. 1,738,588; Dec. 10.
- Levy, Lucien, Paris, France, assignor, by mesne assignments, to American Telephone and Telegraph Company. Electrical transmission of energy. 1,734,038; Nov. 5.
- Levy, M. S., & Sons, Inc. (See Ephraim, Ellis R., assignor.)
- Lévy, Marcel, assignor to "Prodor" Fabrique de Produits Organiques S. A., Geneva, Canton of Geneva, Switzerland. Manufacture of concrete. 1,699,705; Jan. 22.
- Levy, Stanley I., London, England. Treatment of iron pyrite. 1,730,514; Oct. 8.
- Lewallen, Alonzo H. (See Lewallen, James D. and A. H.)
- Lewallen, James D., Oneida, and A. H. Lewallen, Chattanooga, Tenn. Safety device for aeroplanes. 1,713,473; May 14.
- Lewellen, Albert R. (See Wilson, J. F., and Lewellen.)
- Lewellen, Albert R., assignor to General Motors Corporation, Detroit, Mich. Instrument mounting. 1,701,413; Feb. 5.
- Lewellen, Albert R., assignor to General Motors Corporation, Detroit, Mich. Connector for electric headlights and the like. 1,705,022; Mar. 12.
- Lewensohn, Henry P., New York, N. Y. Lighting device. 1,726,907; Sept. 3.
- Lewers, Edward, and P. A. Rickles, New York, N. Y. Telephone cabinet. 1,698,409; Jan. 8.
- Lewers, Robert J., New York, N. Y. Necktie retainer. 1,719,434; July 2.
- Lewin, Adolph M. (See Voightlander, Maximilian G., assignor.)
- Lewin, Nathan S. (See Hudspeth, Joseph G., assignor.)
- Lewin, Samuel, Philadelphia, Pa. Milk-bottle pouring cap. 1,698,338; Jan. 8.
- Lewin, Samuel, assignor of one-half to R. A. Boswell, Philadelphia, Pa. Griddle heater or stove. 1,711,472; Apr. 30.
- Lewin, Tannie, University City, Mo. Metal-sweating furnace. 1,701,722; Feb. 12.
- Lewin, Tannie, assignor of one-half to W. Lewin, St. Louis, Mo. Mold. 1,701,721; Feb. 12.
- Lewin, William. (See Lewin, Tannie, assignor.)
- Lewis, Albert B., McAlester, Okla. Door locking, opening, and closing mechanism. 1,701,784; Feb. 12.
- Lewis, Alfred, and H. A. Widmer, assignors to The Tuck-Tite Lock & Fastener Company Limited, London, England. Fastening. 1,732,408; Oct. 22.
- Lewis, Alfred J., Pocahontas, Ark. Combined automobile jack and tire pump. 1,713,344; May 14.
- Lewis, Alvin, assignor to Embosograf Corporation of America, New York, N. Y. Embossing press. 1,725,461; Aug. 20.
- Lewis, Anson F., deceased, by E. Lewis, administratrix, assignor to Mortarless Tile Machine Company, Santa Barbara, Calif. Building construction and plastic block for making the same. 1,704,255; Mar. 5.
- Lewis, Archelaus, Cumberland Mills, Me. Suction-box cover. 1,696,917; Jan. 1.
- Lewis, Arthur J., and W. S. Reynolds, Stratford, Conn., assignors to John Chatillon & Sons, New York, N. Y. Method and apparatus for wiring coil springs. 1,719,894; July 9.
- Lewis, Arthur P., assignor to The Miller Rubber Company, Akron, Ohio. Conveying system. 1,699,489; Jan. 15.
- Lewis, Arthur P., assignor to The Miller Rubber Company, Akron, Ohio. Trimming selvage edges of rubberized fabrics. 1,724,208; Aug. 13.
- Lewis, Arthur P., and J. L. Wilson, assignors to The Miller Rubber Co., Akron, Ohio. Conveying and elevating mechanism. 1,711,356; Apr. 30.
- Lewis, Benjamin F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Impedance-modifying device. 1,702,305; Feb. 19.
- Lewis, Benjamin F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Signaling circuits. 1,733,127; Oct. 29.
- Lewis, Carl P., Burlingame, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y. Froth-Fotation concentration of ores. 1,723,243; Aug. 6.
- Lewis, Charles B., and F. W. Vogel, Los Angeles, Calif., assignors to L. S. Jones. Detachable siphon device. 1,711,537; May 7.
- Lewis, Charles H., et al. (See Freer, Phelps M., assignor.)
- Lewis, Claude A., Houston, Tex. Theater seat. 1,701,577; Feb. 12.
- Lewis, Claude A., Houston, Tex., assignor to American Window Company. Slidable-window-sash support. 1,713,841; May 21.
- Lewis, Dudley G., Cleveland, N. Y. Finishing candles and its product. 1,726,304; Aug. 27.
- Lewis, Edward D., Elmira, N. Y. Sewage-disposal means. 1,705,869; Mar. 19.
- Lewis, Edward H., Bridgeport, Conn., assignor to General Electric Company. Outlet-box device. 1,723,047; Aug. 6.
- Lewis, Edward Z., Chicago, Ill. Typewriter-feeding device. 1,697,794; Jan. 22.
- Lewis, Edward Z., Evanston, Ill., assignor to Remington Typewriter Company, New York, N. Y. Billing sheet. 1,731,017; Oct. 8.
- Lewis, Elizabeth, administratrix. (See Lewis, Anson F.)
- Lewis, Eric C., Teddington, assignor to The Automotive Engineering Company, Limited, Twickenham, England. Permanent metal foundry mold. 1,734,974; Nov. 12.
- Lewis, Everett C., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Cop or cone holder. 1,728,417; Sept. 17.
- Lewis Foundry & Machine Company. (See Lucas, John, assignor.)
- Lewis Foundry & Machine Company. (See Schraishuhn, Theodore A., assignor.)
- Lewis, Frank E., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,725,090; Aug. 20.
- Lewis, Frank M., Chicago, Ill. Differential mechanism. 1,704,861.
- Lewis, Frank W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Side frame for car trucks. 1,699,298; Jan. 15.



- Lewis, Frank W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Side frame for car trucks. 1,699,299; Jan. 15.
- Lewis, Frank W., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Bolster mounting. 1,735,830; Nov. 12.
- Lewis, G. B., Company. (See Erdmann, Otto G., assignor.)
- Lewis, George A., Cleveland, Ohio. Foldable table. 1,741,576; Dec. 31.
- Lewis, George C., New Dorp, N. Y. Purification of liquids. 1,723,564; Aug. 6.
- Lewis, George H. (See Benson, F. J., and Lewis.)
- Lewis, George I., Cincinnati, Ohio, assignor to The K-D Lamp Company, Lamp. 1,714,429; May 21.
- Lewis, George M., Detroit, Mich. Airplane. 1,737,596; Dec. 3.
- Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 1,707,357; Apr. 2.
- Lewis, Goodrich Q., Wheaton, assignor to W. H. Miner, Inc., Chicago, Ill. Cushioning wear plate for buffer stems. 1,716,859; June 11.
- Lewis, Harold S., Indianapolis, Ind. Self-propelled corn popper. 1,730,515; Oct. 8.
- Lewis, Harry F., Mount Vernon, Iowa, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Purifying anthraquinone. 1,701,186; Feb. 5.
- Lewis, Henry, McKenzie, N. Dak. Stand for supporting an electric light or similar article. Des. 78,357; Apr. 23.
- Lewis, Herbert R. (See Dowell, Chester M., assignor.)
- Lewis, Hiram M., Ashland, Ky. Flush tank. 1,720,558; July 9.
- Lewis, Howard B. (See Hughes, H. R., Lewis, and Burns.)
- Lewis, Howard S., and C. Kachel, assignors to Parish Pressed Steel Company, Reading, Pa. Gear wheel. 1,705,930; Mar. 19.
- Lewis, Howard S., and C. Kachel, assignors to Parish Pressed Steel Company, Reading, Pa. Gear wheel. 1,705,931; Mar. 19.
- Lewis, Howard S., and C. Kachel, assignors to Parish Pressed Steel Company, Reading, Pa. Gear wheel. 1,705,933; Mar. 19.
- Lewis Invisible Stitch Machine Company. (See Mueller, Charles W., assignor.)
- Lewis Invisible Stitch Machine Company. (See Tate, Samuel G., assignor.)
- Lewis, Isabel L., and H. C. Myers, Oneida, N. Y. Fountain washing device. 1,715,933; June 4.
- Lewis, Jacob D., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator. 1,709,134; Apr. 16.
- Lewis, James A., Lexington, Mass. Sliding door. 1,697,772; Jan. 1.
- Lewis, James E., Fort Smith, Ark. Annunciating switch device. 1,740,107; Dec. 17.
- Lewis, James M., Downers Grove, assignor to Bru-Shoe-Matic Company, Chicago, Ill. Casing for a shoe-brushing machine. Des. 780,333; Mar. 19.
- Lewis, James N., New York, N. Y., assignor to V. P. Randall, trustee, Detroit, Mich. Airship. 1,721,631; July 23.
- Lewis, James O. (See Dunn, I. L., Lewis, and Pierce.)
- Lewis, James O., Tulsa, Okla. Apparatus for extinguishing fires in flow lines. 1,699,244; Jan. 15.
- Lewis, James O., assignor, by mesne assignments, to Dunn & Lewis, Tulsa, Okla. Repressuring oil sands. 1,735,646; Nov. 12.
- Lewis, John, St. Louis, Mo. Heating system. 1,715,202; May 28.
- Lewis, John E., Pasadena, Calif. Shock absorber. 1,731,386; Oct. 15.
- Lewis, John M. B., Lynchburg, Va. Headlight. 1,703,494; Feb. 26.
- Lewis, John O., Wesleyville, Pa., assignor to General Electric Company, Resilient wheel. 1,698,309; Jan. 8.
- Lewis, John W., Youngstown, Ohio. Baves-trough hanger. 1,725,809; Aug. 27.
- Lewis, Leo L., Plainfield, assignor, by mesne assignments, to Auditorium Ventilating Corporation, Jersey City, N. J. Air diffuser for auditoriums and the like. 1,737,661; Dec. 3.
- Lewis, Lee P., Hallsville, Mo. Muzzle ring for hogs. 1,736,927; Nov. 26.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,710,497; Apr. 23.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,710,498; Apr. 23.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,710,499; Apr. 23.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,720,225; July 9.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,721,961; July 23.
- Lewis Manufacturing Company. (See Rodier, Edward J., assignor.)
- Lewis, Morgan J., Massillon, assignor to E. F. Duquette, Hartsville, Ohio. Garage-door opener. 1,722,670; July 30.
- Lewis, Nathan E. (See Jacobus, D. S., and Lewis.)
- Lewis, Owen L., assignor, by mesne assignments, to The Alliance Toy & Specialty Company, Alliance, Ohio. Toy vehicle. 1,719,062; July 2.
- Lewis, Richard C., assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Machine for treating rubber and like material. 1,713,969; May 21.
- Lewis, Richard C., assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Machine for treating rubber and similar material. 1,721,962; July 23.
- Lewis, Robert B. (See Farrell, William J., assignor.)
- Lewis, Roy, Plymouth, Pa. Awning. 1,724,606; Aug. 13.
- Lewis, Roy A., and D. L. Eynon, Bethlehem, Pa., assignors to Bethlehem Steel Company. Producing open-work structures. 1,736,317; Nov. 19.
- Lewis, Samuel J., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Cutting laminated glass. 1,731,820; Oct. 15.
- Lewis-Shepard Company. (See Hennessy, Daniel E., assignor.)
- Lewis-Shepard Company. (See Lovejoy, Ralph M., assignor.)
- Lewis-Shepard Company. (See Shepard, Frederick J., jr., assignor.)
- Lewis-Shepard Company. (See Shepard, F. J., and Warshaw, assignors.)
- Lewis-Shepard Company. (See Shepard, F. J., jr., Warshaw, and Hennessy, assignors.)
- Lewis-Shepard Company. (See Warshaw, Nathaniel, assignor.)
- Lewis-Shepard Company. (See Warshaw, N., and Hennessy, assignors.)
- Lewis, Stanley T., Regina, Saskatchewan, Canada. Recording device for meters. 1,707,061; Mar. 26.
- Lewis, Thomas J., New York, N. Y. Hand bag with cosmetic folders. 1,723,740; Aug. 6.
- Lewis, Tony N., et al. (See Butler, Thomas H., assignor.)
- Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Temperature control for liquid containers. 1,714,228; May 21.
- Lewis, Warren K., Newton, Mass., assignor to Standard Oil Development Company. Obtaining gasoline hydrocarbons. 1,730,152; Oct. 1.
- Lewis, Warren K., Newton, Mass., and N. E. Loomis, Westfield, N. J., assignors to Standard Oil Development Company. Distillation. 1,697,195; Jan. 1.
- Lewis, Wilbur S., assignor to The Nestle-Le Mur Company, Cleveland, Ohio. Apparatus for forming permanent waves. 1,733,612; Oct. 29.
- Lewis, Wilbur S., assignor to The Nestle-Le Mur Company, Cleveland, Ohio. Permanent-waving hair curler. 1,742,177; Dec. 31.
- Lewis, Wilbur S., Cleveland, and J. C. Murray, Lakewood, assignors to The Le Mur Company, Cleveland, Ohio. Pad for hair-waving processes. 1,719,555; July 2.
- Lewis, Wilbur S., Lakewood, assignor to The Nestle Le Mur Company, Cleveland, Ohio. Hair curler. 1,735,254; Nov. 12.
- Lewis, Wilbur S., Lakewood, assignor to The Nestle Le Mur Company, Cleveland, Ohio. Hair curler. 1,735,255; Nov. 12.
- Lewis, Wilfred, Haverford, assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Pneumatic jar ramming molding machines. 1,730,328; Oct. 1.
- Lewis, William, Utica, N. Y. Spring cushion. 1,698,638; Jan. 8.
- Lewis, William, Utica, N. Y. Spring cushion. 1,727,653; Sept. 10.
- Lewis, William, Utica, N. Y. Spring mattress. 1,727,654; Sept. 10.
- Lewis, William, Vancouver, British Columbia, Canada. Drinking solution. 1,727,722; Sept. 10.
- Lewis, William, & Son. (See Meyers, William A., assignor.)
- Lewis, William T. (See Lee, G. P., and Lewis.)
- Lewy, Daniel. (See Butusov, Emil P., assignor.)
- Leybold, Paul, Geisslingen, Germany. Winding works. 1,717,935; June 18.
- Leydecker, Frederick J., Marengo, Ill. Ditching and leveling machine. 1,707,062; Mar. 26.
- Leyland, Percy N., New York, N. Y. Plate or similar article. Des. 77,844; Feb. 26.
- Leyland, Thomas & Co. (See Isherwood, Arthur, assignor.)
- Leysieffer, Gustav, Troisdorf, Germany. Manufacturing sheets, slabs, or molded articles from celluloidlike materials. 1,716,379; June 11.
- Leyst, Carl, Berlin, Germany, assignor of one-half to A. H. Lynn, London, England. Production of cellulosic materials. 1,726,078; Aug. 27.
- Leyvraz, André, Lausanne, Switzerland, assignor to W. Maas, London, and F. Grinstead, Durrington, England. Electric writing machine. 1,732,370; Oct. 22.
- Lezius, Rosalie, Euclid, Ohio. Culinary mold. 1,711,686; May 7.
- L'Hollier, Leslie H., and F. Wray, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Slide-fastener overshoe. 1,717,790; June 18.
- Liacci, Angelo, Newark, N. J. Toy. 1,724,488; Aug. 13.
- Liamin, Dimitri. (See Schilling, A., Sachse, Liamin, and Callaert.)
- Lias, Earl M. (See Hays, J. R., and Lias.)
- Libani, Romolo, Genoa, Italy. Lowering gear for lifeboats. 1,701,007; Feb. 5.



- Libani, Romolo, Genoa, Italy. Brake device for lifeboats. 1,740,027; Dec. 17.
- Libbey Glass Manufacturing Company, The. (See Parker, Alvah C., assignor.)
- Libbey-Owens Glass Company. (See Allen, H. E., and Brown, assignors.)
- Libbey-Owens Glass Company, The. (See Blair, James C., assignor.)
- Libbey-Owens Glass Company. (See Crowley, Joseph P., assignor.)
- Libbey-Owens Glass Company. (See Henderson, John C., assignor.)
- Libbey-Owens Glass Company, The. (See Lewis, Samuel J., assignor.)
- Libbey-Owens Glass Company, The. (See Louviaux, Alfred E., assignor.)
- Libbey-Owens Glass Company, The. (See Mambourg, Luke C., assignor.)
- Libbey-Owens Glass Company, The. (See Mambourg, Nestor, assignor.)
- Libbey-Owens Glass Company. (See Membourg, Leopold, assignor.)
- Libbey-Owens Glass Company, The. (See Moller, John H., assignor.)
- Libbey-Owens Glass Company, The. (See Nobbe, William E., assignor.)
- Libbey-Owens Glass Company, The. (See Reece, Joseph A., assignor.)
- Libbey-Owens Glass Company, The. (See Snodgrass, George M., assignor.)
- Libbey-Owens Glass Company. (See Stable, Erik G., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Allen, Horace B., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Brasseur, E. J., and Geddes, assignors.)
- Libbey-Owens Sheet Glass Company, The. (See Callard, Robert P., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Drake, John L., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Ferngren, Enoch T., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Fowle, Arthur E., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Fraser, Frank, assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Gipe, John C., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Mambourg, Leopold, assignor.)
- Libbey-Owens Sheet Glass Company, The. (See McKinley, Thomas C., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Neenan, J. M., and Weaver, assignors.)
- Libbey-Owens Sheet Glass Company, The. (See Norcross, Carl E., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Randall, James W. H., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Rowley, Clifford A., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Swope, Charles W., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Wildermuth, Jesse W., assignor.)
- Libby, A. D. T., et al. (See Norwood, Harry G., assignor.)
- Libby, Peter, Waterville, Me. Liquid delivery and pumping apparatus. 1,737,929; Dec. 3.
- Liberman, Herman P., et al. (See Loewy, Aaron E., assignor.)
- Liberman, Herman P., et al. (See Schütz, Conrad, assignor.)
- Liberman, Rose, et al. (See Loewy, Aaron E., assignor.)
- Liberman, Rose, et al. (See Schütz, Conrad, assignor.)
- Libert, Alfred, Forest-Brussels, Belgium. Gin for cotton and all fibrous materials. 1,717,569; June 18.
- Liberthson, Leo. (See Mednikoff N., and Liberthson.)
- Liberty, Alexander M., deceased; L. La Porte, administrator, Faust, N. Y. Valve grinder. 1,702,736; Feb. 19.
- Liberty Cherry & Fruit Co., The. (See Groniger, Walter E., assignor.)
- Liberty Machine Tool Company, The. (See Johannesmeyer, Charles G., assignor.)
- Libicz, Gaston F., Highland Park, Mich. Bell attachment for accordions. 1,696,960; Jan. 1.
- Lichte, Hugo. (See Hahnemann, W., Adelman, and Lichte.)
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Adjustable gauge multiplane. 1,705,578; Mar. 19.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Water-measuring device. 1,712,832; May 14.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Boom-hoist safety means. 1,715,664; June 4.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Safety hoist mechanism for loading skips. 1,720,048; July 9.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Concrete mixing and spreading machine. 1,724,033; Aug. 13.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Method of and apparatus for determining the consistency of concrete. 1,730,893; Oct. 8.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Concrete-road-finishing machine. 1,736,412; Nov. 19.
- Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Concrete-road-finishing machine. 1,736,413; Nov. 19.
- Lichtenberg, Erich H., and E. E. Brey, assignors to Koehring Company, Milwaukee, Wis. Dipper-dumping control for shovels. 1,731,673; Oct. 15.
- Lichtenberg, Fred, and M. M. McCarthy, Yonkers, N. Y. Wall construction. 1,714,174; May 21.
- Lichtenberg, Frederik B., Milwaukee, Wis. Tent accessory for automobiles. 1,707,270; Apr. 2.
- Lichtenstern, Richard, Vienna, Austria. Making infusible asphalt masses of high elasticity. 1,720,487; July 9.
- Lichtenthaler, Frank E., Newton Highlands, Mass. Cooling worts during fermentation. 1,731,073; Oct. 8.
- Lichter, Malvin, New York, N. Y., assignor to Malvin Lichter Inc. Mechanical memorandum and making the same. 1,734,496; Nov. 5.
- Lichter, Malvin, Inc. (See Lichter, Malvin, assignor.)
- Lichty, Luther D., New York, N. Y., assignor to J. G. Noll, Leonia, N. J. Fumigated furniture. 1,719,940; July 9.
- Lickteig, Albert E., assignor, by mesne assignments, to National Brass Company, Grand Rapids, Mich. Automobile door latch. 1,739,154; Dec. 10.
- Liddell, Alvan R., et al. (See Wakeman, John E., assignor.)
- Liddell, Leslie R., Chippewa Falls, Wis. Snowplow. 1,703,740; Feb. 26.
- Liddell, Robert P. F. (See Greenhalgh, G. H., and Liddell.)
- Liddell, Robert P. F., New York, N. Y., assignor to Motor Improvements, Inc., Newark, N. J. Filter. 1,741,705; Dec. 31.
- Liddle, James, Garfield, N. J. Liquid dispenser. 1,722,907; July 30.
- Lide, Martin J., Birmingham, Ala. Pulsating jig. Re17,272; Apr. 16.
- Lide, Martin J., Birmingham, Ala. Concentrating table. 1,696,918; Jan. 1.
- Lide, Martin J., Birmingham, Ala. Dry separator. 1,701,624; Feb. 12.
- Lide, Martin J., Birmingham, Ala. Concentrating table. 1,723,795; Aug. 6.
- Lide, Martin J., Birmingham, Ala. Jigging mechanism. 1,736,008; Nov. 19.
- Lidgerwood Manufacturing Company. (See Dickinson, Joseph H., assignor.)
- Lidseen, Gustave, Chicago, Ill. Power manicure device. 1,719,063; July 2.
- Lidseen, Gustave, Chicago, Ill. Mechanical manicuring machine. 1,719,064; July 2.
- Lidseen, Gustave, Chicago, Ill. Meat press. 1,720,367; July 9.
- Lidsky, Louis, et al. (See Lidsky, Louis, assignor.)
- Lidsky, Louis, assignor to L. Lidsky, J. Pernick, and G. P. Morse, Brooklyn, N. Y. Monorail trolley system. 1,715,092; May 28.
- Liebau, Gustav C. A., Berlin-Weissensee, Germany. Apparatus for cleaning sewers and pipes. 1,717,986; June 18.
- Liebchen, Friederich W., assignor to B. Goldberg, Cleveland, Ohio. Drapery-holding device. 1,730,979; Oct. 8.
- Liebel, John G. H., Cincinnati, Ohio, and T. H. Cherry, New York, N. Y., assignors to The Liebel-Flarsheim Company, Cincinnati, Ohio. Electrode. 1,703,827; Feb. 26.
- Liebel-Flarsheim Company, The. (See Liebel, J. G. H., and Cherry, assignors.)
- Liebenson, David. (See Plotkin, Hyman, assignor.)
- Lieber, John M., Hartford City, Ind. Forced circulation for hot-air furnaces. 1,724,209; Aug. 13.
- Lieber, William H., Wauwatosa, assignor to Allis Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. 1,706,359; Mar. 19.
- Lieberknecht, Paul, Chemnitz, assignor to Maschinenfabrik Einsiedel Gesellschaft m. b. H., Einsiedel, near Chemnitz, Germany. Thread-guide-operating device for straight-bar knitting machines. 1,715,338; May 28.
- Lieberman, Stanley S., New York, N. Y. Newspaper-vending machine. 1,707,986; Apr. 9.
- Liebert, Emil, Los Angeles, Calif. Casting articles of precious material. 1,731,169; Oct. 8.
- Liebert, Herman R., and E. Schoettel, assignors to Good-year-Zeppelin Corporation, Akron, Ohio. Gas cell for rigid airships. 1,700,096; Jan. 22.
- Liebknecht, Otto, Berlin-Grunewald, Germany. Composition of matter and destroying noxious creatures. 1,736,448; Nov. 19.
- Liebl, Franz, Vienna, Austria. Rounding off or beveling edges of glass or like articles. 1,736,977; Nov. 26.
- Liebman, Louis, New York, N. Y. Soldering machine. 1,712,443; May 7.
- Liebman, Louis, New York, N. Y. Joint reinforcement for metal doors or the like. 1,729,536; Sept. 24.
- Liebschner, Ferd., & Sohn. (See Liebschner, Moritz, assignor.)
- Liebschner, Moritz, Gunnersdorf, near Frankenberg, assignor to the firm Ferd. Liebschner & Sohn, Frankenberg, Germany. Picker for looms. 1,726,514; Aug. 27.
- Lientz, B. P., Oil Furnace Company, et al. (See von Pagenhardt, M. H., and Barker, assignors.)
- Lienzén, David L., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Multiple-contact field for selectors. 1,726,156; Aug. 27.



- Lienzén, David L., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Selector switch. 1,728,348; Sept. 17.
- Lienzén, David L., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Group selector. 1,728,349; Sept. 17.
- Lier, Fred B., Brooklyn, assignor of forty per cent to A. Seyfert, New York, N. Y. Toboggan coaster. 1,720,488; July 9.
- Liese, Paul, Berlin-Tempelhof, Germany. Structure comprising glass tiles. 1,725,808; Aug. 27.
- Lietz, Felix E., Buffalo, N. Y., assignor to The Flintkote Company, Boston, Mass. Shingle lock. 1,703,156; Feb. 26.
- Lietzke, Henry R., assignor to The Warner Corporation, Syracuse, N. Y. Transmission-case cap. 1,735,826; Nov. 12.
- Life, Harold G. (See Griffith, F., Birkmeyer, and Life.)
- Lifton, Samuel H., Brooklyn, N. Y. Brief bag or case. 1,710,582; Apr. 23.
- Liggett, William K., assignor to Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizing machine. Re17,334; June 25.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Belt tripper. 1,714,032; May 21.
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Remotely-controlled reversing mechanism. 1,718,160; June 18.
- Light, Leslie F., Binghamton, assignor to Doughnut Machine Corporation, New York, N. Y. Coating machine. 1,789,642; Dec. 17.
- Light, Ralph A., and J. W. Price, jr., assignors to the United States Metallic Packing Company, Philadelphia, Pa. Segmental metallic packing ring. 1,718,242; June 25.
- Light, William I., Brooklyn, N. Y. Fountain pen. 1,720,559; July 9.
- Lightfoot, Edwin N., Wauwatosa, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. 1,699,898; Jan. 22.
- Lightfoot, Edwin N., Wauwatosa, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Electric heater and making the same. 1,735,831; Nov. 12.
- Lightfoot, Isaac C. (See Combs, W. F., and Lightfoot.)
- Lighting Appliance Co. (See Einhorn, Marcus, assignor.)
- Lignel Corporation. (See Lauter, Felix, assignor.)
- Lignite Products Corporation of America. (See Newberry, Ivor B., assignor.)
- Ligon, Arthur L., Fort Stockton, Tex. Coupling connection for pump rods. 1,719,664; July 2.
- Likas, Frank C., Chicago, Ill. Liquid applicator for vehicle brakes. 1,707,987; Apr. 9.
- Like, Ernest E., assignor to The Selby Shoe Company, Portsmouth, Ohio. Constructing shank irons for shoes. 1,706,792; Mar. 26.
- Likely, Alva C. (See Ainsworth, H. W., Likely, and Boardman.)
- Likes, Jasper, Venice, Calif. Toy. 1,711,150; Apr. 30.
- Lildal, Jakob J., Copenhagen, Denmark. Gear-shifting apparatus. 1,740,823; Dec. 24.
- Lile, Clarence, Granite City, Ill. Milk-bottle-cap remover. 1,729,620; Oct. 1.
- Liley, James A., Marble Hill, Mo. Display cabinet. 1,706,240; Mar. 19.
- Lilienfeld, Julius E., Springfield, Mass. Method of and apparatus for reproducing sound. 1,723,244; Aug. 6.
- Lilienfeld, Leon, Vienna, Austria. Cellulose derivative and producing same. 1,722,927; July 30.
- Lilienfeld, Leon, Vienna, Austria. Artificial material and making same. 1,722,928; July 30.
- Lilienfeld, Leon, Vienna, Austria. Improving artificial fibrous materials. 1,724,670; Aug. 13.
- Lilienfeld, Leon, Vienna, Austria. Improving cotton. 1,736,712; Nov. 19.
- Lilienfeld, Leon, Vienna, Austria. Improving cotton. 1,736,713; Nov. 19.
- Lilienfeld, Leon, Vienna, Austria. Vegetable textile material and producing same. 1,736,714; Nov. 19.
- Lilienfeld, Leon, Vienna, Austria. Improving cotton. 1,738,190; Dec. 3.
- Lilienfeld, Leon, Vienna, Austria. Vegetable textile material and producing same. 1,741,637; Dec. 31.
- Lilienfeld Bros. & Company. (See Lilienfeld, Walter E., assignor.)
- Lilienfeld, Walter E., assignor to Lilienfeld Bros. & Company, Chicago, Ill. Curing tobacco. 1,731,018; Oct. 8.
- Liljah, Harry W., Nichols, Iowa. Bearing. 1,719,665; July 2.
- Liljenroth, Frans G., Stockholm, Sweden. Oxidizing ammonia. 1,725,462; Aug. 20.
- Lilleberg, Tideman M., assignor to The Nye Tool & Machine Works, Chicago, Ill. Pipe machine. 1,697,532; Jan. 1.
- Lillesö-Petersen, Jens P., Copenhagen, Denmark. Combined tent top and hand bag. 1,710,675; Apr. 23.
- Lilley, Daniel G., Denver, Colo. Gear-shift mechanism. 1,712,708; May 14.
- Lilley, Daniel G., Denver, Colo. Aeroplane control. 1,720,960; July 16.
- Lillford, Harry J., New York, N. Y. Collapsible irrigation bag. 1,718,369; June 25.
- Lillich, Henry R., and C. Smith, Boring, Oreg. Umbrella. 1,737,464; Nov. 26.
- Lilligren, Jonathan M., Enid, Okla. Sampling apparatus. 1,721,126; July 16.
- Lilly, Eli, and Company. (See Scott, Jasper P., assignor.)
- Lilly, Eli, and Company. (See Stuart, Elmer H., assignor.)
- Lilly, Marcine C., Decatur, Ill. Pump. 1,721,127; July 16.
- Lilly, William J., Tacoma, Wash., and H. H. Logan, Chicago, Ill. Hoist control. Re17,374; July 16.
- Lima, Milford, Fresno, and M. Eitmoed, Hanford, Calif. Sanitary display cover. 1,703,157; Feb. 26.
- Limbarth, Charles C., Brooklyn, N. Y. Treating teeth and artificial dentures with color films. 1,712,043; May 7.
- Limbarth, Charles C., Brooklyn, N. Y. Artificial denture. 1,722,054; July 23.
- Limbocker, Fred C., Jaffray, British Columbia, Canada. Tool carrier. 1,726,398; Aug. 27.
- Limpach, Otto. (See Schmidt, M. F., and Limpach.)
- Limpert, Alexander S., Bay Shore, N. Y. Method of and apparatus for refrigeration. 1,706,621; Mar. 26.
- Limpert, Alexander S., Bay Shore, N. Y. Sealing means for refrigerating machines. 1,734,497; Nov. 5.
- Linaker, Frederick W., and T. M. Bruback, Du Bois, Pa. Soot-cleaner-operating mechanism. 1,715,137; May 28.
- Linar, Robert, Chicago, Ill. Shoe. 1,721,912; July 23.
- Linares, Manuel, Washington, D. C. Pie holder. 1,723,551; Aug. 6.
- Linberg, Andrew C. (See Crom, J. M., and Linberg.)
- Lincoln, Carl E., Glencoe, Ill., assignor, by mesne assignments, to Geo. W. Wheelwright Paper Company, Leominster, Mass. Imprinting. 1,725,534; Aug. 20.
- Lincoln Electric Company, The. (See Chapman, Everett, assignor.)
- Lincoln Electric Company, The. (See Dreese, E. E., and La Vigna, assignors.)
- Lincoln Electric Company, The. (See La Vigna, W., and Malner, assignors.)
- Lincoln Electrical Supply Co. (See Weinstein, Morris, assignor.)
- Lincoln, Elmer W. (See Stryker, C. E., and Lincoln.)
- Lincoln, Elmer W., assignor to Fansteel Products Company, Inc., Chicago, Ill. Rectifier circuits. 1,724,607; Aug. 13.
- Lincoln Furniture Company. (See Lincoln, William H., assignor.)
- Lincoln, John C., East Cleveland, Ohio. Electric-arc welding. 1,117,151; Apr. 30.
- Lincoln, John C., East Cleveland, assignor to The Citizens Savings and Trust Company, Cleveland, Ohio. Flux holder. 1,722,929; July 30.
- Lincoln Manufacturing Company. (See Baumheckel, William M., assignor.)
- Lincoln Manufacturing Company. (See McFadden, Glenn E., assignor.)
- Lincoln Manufacturing Company. (See Moore, John C., assignor.)
- Lincoln, Neil S., Detroit, Mich. Oil gauge. Des. 77,782; Feb. 19.
- Lincoln Oil Burner Company. (See Collins, Harold P., assignor.)
- Lincoln, Rollo B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric toaster. 1,739,155; Dec. 10.
- Lincoln-Schluter Floor Machinery Co. (See Wadhams, Frederick E., assignor.)
- Lincoln Stres, Inc. (See Brown, Leo, assignor.)
- Lincoln, William H., Philadelphia, assignor to Lincoln Furniture Company, Philadelphia, Pa. Support for beds. 1,705,297; Mar. 12.
- Lincrusta-Walton Company. (See Abolin, Harry T., assignor.)
- Lind, Charles A., Honolulu, Hawaii. Rigger's vise. 1,731,468; Oct. 15.
- Lind, John E., Washington, D. C., assignor to J. W. Woolley, Columbus, Ohio. Interviewer. 1,700,413; Jan. 29.
- Lind, Otto. (See Riehl, E., and Lind.)
- Lind, Theodore, Taylorville, Ill. Automobile top. Des. 80,181; Dec. 24.
- Lindahl, John, Quinault, Wash. Detachable pail funnel. 1,732,130; Oct. 15.
- Lindahl, Peter, and L. Duncan, Rawlins, Wyo. Internal-combustion engine. 1,739,008; Dec. 10.
- Lindars, Herman. (See Vanderhorst, Nicholas, assignor.)
- Lindberg, Bernhard, Chicago, Ill. Dry-cleaning washer. 1,720,961; July 16.
- Lindberg, Hans, Los Angeles, Calif. Locking device for camera shutters. 1,708,547; Apr. 9.
- Lindberg, John F., Chicago, Ill., assignor, by mesne assignments, to The Yoder Pencil Company, Cleveland, Ohio. Pencil. 1,729,786; Oct. 1.
- Lindberg, Le Roy, Langford, S. Dak. Rotary switch. 1,720,134; July 9.
- Lindblad, Axel R., Djursholm, Sweden. Treating arsenious ore. 1,729,351; Sept. 24.
- Lindburg, Joseph, Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,700,322; Jan. 29.
- Lindburg, Joseph, Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriter word counter. 1,710,777; Apr. 30.
- Lindburg, Joseph, Fort Hamilton, Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,735,121; Nov. 12.
- Linde Air Products Company, The. (See Bucknam, Worthy C., assignor.)



- Linde Air Products Company, The. (See Dawson, Joseph R., assignor.)
- Linde, Andrew H., Philadelphia, Pa. Ball-bearing cage. 1,712,222; May 7.
- Linde, Andrew H., Philadelphia, Pa. Cage for ball bearings. 1,715,848; June 4.
- Linde, Carl A. P., Sundbyberg, Sweden. Machine for cutting meat. 1,726,356; Aug. 27.
- Linde, Knud W. (See Voigt, A. P. J., and Linde.)
- Lindeblad, I. L. (See Hughes, Vincent L., assignor.)
- Lindeman, James E., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator-door-operating mechanism. 1,707,358; Apr. 2.
- Lindeman, Otto C., administrator. (See Lindeman, Teddy O.)
- Lindeman, Teddy O., deceased, Winona, Mich.; O. C. Lindeman, administrator. Article containing and dispensing case. 1,706,304; Mar. 19.
- Lindemann, Adolph, Pittsburgh, Pa., assignor to E. J. Conway, Cleveland, Ohio. Machine for welding lamp wires. 1,702,835; Feb. 19.
- Lindemann, Henry O., Tompkinsville, N. Y. Bird cage. Des. 77,845; Feb. 26.
- Lindemann, Max. (See Andrews, E. C., and Lindemann.)
- Linden, Arvid I., Brooklyn, N. Y. Child's vehicle. 1,711,418; Apr. 30.
- Linden, Carl E., and G. H. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Clapper box for planers. 1,707,558; Apr. 2.
- Linden, Carl E., and G. H. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Metal planer. 1,740,185; Dec. 17.
- Linden, Paul P., Yonkers, N. Y. Identification seal. 1,701,267; Feb. 5.
- Linden, Paul P., Yonkers, N. Y. Machine for attaching identification seals on skins. 1,719,480; July 2.
- Lindenberg, Matthew, New York, N. Y. Article of ornamentation and preparing same. 1,730,665; Oct. 8.
- Lindenberg, Theodore, Columbus, Ohio. Sound-generating apparatus. 1,727,437; Sept. 10.
- Linder, Friedrich. (See Schuler, H., and Linder.)
- Linder, Gustave E., assignor of one-fourth to F. A. Renstrom and one-fourth to H. Christopherson, Omaha, Neb. Fastening device. 1,726,673; Sept. 3.
- Linder, Oscar B., New York, N. Y. Automobile seat back. 1,711,320; Apr. 30.
- Linderblad, Alfonz L. (See Viberg, E. R., and Linderblad.)
- Linderson, Alfred, Norwich, Conn., assignor to Draper Corporation, Hopedale, Mass. Slub catcher for spoolers. 1,700,704; Jan. 29.
- Lindgren, Bror J., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Barrel-seaming machine. 1,715,847; June 4.
- Lindgren, Frank O. (See Anderson, H., and Lindgren.)
- Lindgren, Hans O., Stockholm, Sweden, assignor to the De Laval Separator Company, New York, N. Y. Conserving centrifugal liquids. 1,705,934; Mar. 19.
- Lindgren, Knute H., Chicago, Ill. Selective latching device. 1,704,946; Mar. 12.
- Lindgren, Stanley H., Maywood, Ill., assignor to American Can Company, New York, N. Y. Dredging can. 1,737,014; Nov. 26.
- Lindgren, Waldemar L., Waukegan, assignor to A. A. Norton, trustee, Chicago, Ill. Vacuum cleaner. 1,712,922; May 14.
- Lindgren, Waldemar L., Waukegan, assignor to A. A. Norton, trustee, Chicago, Ill. Brush mounting for vacuum cleaners, etc. 1,712,923; May 14.
- Lindgren, Waldemar L., Waukegan, assignor to A. A. Norton, trustee, Chicago, Ill. Brush mounting for vacuum cleaners, etc. 1,712,924; May 14.
- Lindgren, Waldemar L., assignor to A. A. Norton, Chicago, Ill., trustee. Clothes hanger. 1,716,894; June 11.
- Lindgren, Walter R., New York, N. Y., assignor to International Cigar Machinery Company. Wrapper-carrier suction control. 1,710,739; Apr. 30.
- Lindh, Charles F., Brooklyn, N. Y., assignor to Standard Tobacco Stemmer Company. Leaf-stemming device. 1,740,611; Dec. 24.
- Lindhard, Povel T., Brooklyn, assignor to F. L. Smidth & Co., New York, N. Y. Drier. 1,718,243; June 25.
- Lindhard, Povel T., Brooklyn, assignor to F. L. Smidth & Co., New York, N. Y. Cement-grinding mill. 1,728,495; Sept. 17.
- Lindhard, Povel T., Brooklyn, assignor to F. L. Smidth & Co., New York, N. Y. Manufacture of Portland cement. 1,728,496; Sept. 17.
- Lindholm, Harry W., Holmquist, S. Dak. Vehicle air brake. 1,721,519; July 23.
- Lindholm, John A., Wollaston, Mass. Variable-speed mechanism. 1,739,554; Dec. 17.
- Lindley, Adelbert H., et al., executor. (See Chace, William M.)
- Lindley, Alva A., Spokane, Wash. Fitting. 1,709,624; Apr. 16.
- Lindley, George W., Philadelphia, Pa. Knitting machine. 1,725,150; Aug. 20.
- Lindley, Lowell F., Chicago, Ill. Highway marker. 1,733,161; Oct. 29.
- Lindley, Walter, Stone, England, assignor to Herman C. Kupper, Inc., New York, N. Y. Covered dish or similar article. Des. 77,698; Feb. 12.
- Lindley, Walter, Stone, England, assignor to Geo. Borgfeldt & Co., New York, N. Y. Earthenware teapot or similar article of manufacture. Des. 78,525; May 14.
- Lindmark, Carl J., Warren, Pa. Combined fire hydrant and drinking fount. 1,715,714; June 4.
- Lindner, Arthur. (See Bergstein, S., and Lindner.)
- Lindner, John C., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 1,700,705; Jan. 29.
- Lindner, Theodore, Chicago, Ill. Vehicle extraction device. 1,732,975; Oct. 22.
- Lindon, Ida. (See Wardie, Randolph M., assignor.)
- Lindon, Marjorie D., New York, N. Y. Lip-stick holder or container. 1,710,583; Apr. 23.
- Lindquist, David E. (See Irving, P., Lindquist, Eusey, and Mueller.)
- Lindquist, David L., Hartsdale, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for elevators. 1,702,515; Feb. 19.
- Lindquist, David L., Hartsdale, assignor to Otis Elevator Company, New York, N. Y. Elevator-cable equalizer. 1,725,402; Aug. 20.
- Lindquist, David L., Hartsdale, and G. W. Lantrop, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Electric elevator machine. 1,702,514; Feb. 19.
- Lindquist, David L., Hartsdale, N. Y., E. L. Dunn, East Orange, N. J., and D. C. Larson, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Elevator system. 1,717,046; June 11.
- Lindquist, Harriet A., Minneapolis, Minn. Support for clothes hangers. 1,716,923; June 11.
- Lindquist, John A., Calgary, Alberta, Canada. Weeder. 1,713,474; May 14.
- Lindquist, Otto B., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Four-high mill. 1,739,156; Dec. 10.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Lantern. Des. 77,607; Jan. 29.
- Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Lantern. Des. 77,608; Jan. 29.
- Lindsay, Hamilton, assignor to Lindsay Wire Weaving Company, Cleveland, Ohio. Weaving wire fabric. 1,704,542; Mar. 5.
- Lindsay, Hamilton, assignor to Lindsay Wire Weaving Company, Cleveland, Ohio. Seam for woven-wire belts and making it. 1,716,860; June 11.
- Lindsay, Harvey B., Evanston, Ill., assignor to Dry Zero Corporation, Wilmington, Del. Insulated tank. 1,730,153; Oct. 1.
- Lindsay, Homer J., assignor to Clark-Lindsay Corporation, Rochester, N. Y. Signal tab. 1,697,985; Jan. 8.
- Lindsay, James A., Oakland, Calif. Wire-handling tool. 1,726,746; Sept. 3.
- Lindsay, John, San Francisco, Calif. Casement window. 1,710,171; Apr. 23.
- Lindsay, Lynn G., Minneapolis, Minn., assignor to Trupar Manufacturing Company, Dayton, Ohio. Water-softening apparatus. 1,704,982; Mar. 12.
- Lindsay, Roy W., Huntington, L. I., assignor of one-half to R. B. Jones, Bronxville, N. Y. Flexible hose coupling. 1,735,326; Nov. 12.
- Lindsay, William, assignor, by mesne assignments, to Economy Fuse and Manufacturing Co., Chicago, Ill. Electric switch. 1,706,793; Mar. 26.
- Lindsay, William, assignor, by mesne assignments, to Economy Fuse and Manufacturing Co., Chicago, Ill. Electric switch. 1,733,230; Oct. 29.
- Lindsay, William H., assignor to L and M Manufacturing & Holding Company, Muncie, Ind. Flexible coupling. 1,705,984; Mar. 19.
- Lindsay, William J., Norwood, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for calcining lithopone. 1,704,482; Mar. 5.
- Lindsay, William J., Norwood, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Calcining lithopone. 1,704,483; Mar. 5.
- Lindsay Wire Weaving Company. (See Lindsay, Hamilton, assignor.)
- Linsley, Earle, Taylorsville, Miss. Water swivel for use in well drilling. 1,737,465; Nov. 26.
- Linsley, Ernest E., San Francisco, Calif. Apparatus for treating semisolids and liquids. 1,705,822; Mar. 19.
- Linsley, Frederick C., Milwaukee, Wis. Combined gas generator, carburetor, preheater, and controller. 1,722,304; July 30.
- Linsley, Parren D. (See Bartlett, R. S., Harrison, and Linsley.)
- Linsley, Parren D. (See Harrison, C. D., and Linsley.)
- Linsley, Parren D., Hominy, Okla. Automatic shut-off valve. 1,697,280; Jan. 1.
- Linsley, William M., S. Hot Springs, S. Dak. Nutcracker. 1,710,629; Apr. 23.
- Lindstrand, Swan M., Chicago, Ill. Floating air liner. 1,710,423; Apr. 23.
- Lindstrom, August B. (See Hoagland, F. O., Mueller, and Lindstrom.)
- Lindstrom, Carl, Aktiengesellschaft. (See Goldstein, Carl M., assignor.)
- Lindstrom, Claude B., Coscob, Conn. Water-tube boiler. 1,725,463; Aug. 20.
- Lindstrom, Everard R., Evanston, Ill., assignor to A. L. Read, Covington, Ky. Brush-making machine. 1,736,162; Nov. 19.
- Lindstrom, Gustaf F., assignor of one-half to G. L. Popert, Sacramento, Calif. Horn and sound chamber and sounding boards. 1,715,849; June 4.



- Lindstrom, Nils O., Nutley, N. J., assignor to A. B. See Elevator Company, Inc. Safety device for elevators. 1,700,137; Jan. 29.
- Lindstrom, Nils O., Nutley, and C. F. E. Olofson, West Orange, N. J., assignors to A. B. See Elevator Co. Inc. Motor regulation. 1,702,352; Feb. 19.
- Lindvart, John J. (See Squire, A. J., and Lindvart.)
- Lindy, Aaron D., St. Louis, Mo., assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressing machine (rotating buck). 1,698,954; Jan. 15.
- Line, Arthur J., Edgbaston, England. Aluminum solder. 1,732,727; Oct. 22.
- Line-A-Time Mfg. Co. Inc., The. (See Breitenbach, Roy A., assignor.)
- Line-A-Time Mfg. Co. Inc., The. (See Drake, Charles R., assignor.)
- Line-A-Time Mfg. Co. Inc., The. (See Drake, C. R., and Heberling, assignors.)
- Line Equipment Sales Company, The. (See Arndt, J. P., and Lelivelt, assignors.)
- Line Material Company. (See Hood, Samuel B., assignor.)
- Line Material Company. (See Kyle, William D., assignor.)
- Line Material Company. (See Lemont, Clarence J., assignor.)
- Line Material Company. (See Smythe, Robert L., assignor.)
- Line Material Company. (See Steinmayer, Alwin G., assignor.)
- Linebarger, Iva B., Rockville, and W. F. Blue, Montezuma, Ind. Adjustable back support. 1,706,794; Mar. 26.
- Linebaugh, Edward R., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Slip-sheet mechanism for printing presses. 1,722,806; July 30.
- Linebaugh, Edward R., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Slip-sheet mechanism for printing presses. 1,722,807; July 30.
- Lineberger, Fred B., assignor to Metal Office Furniture Company, Grand Rapids, Mich. File-drawer compressor. 1,734,171; Nov. 5.
- Linehan, Edward E., St. Paul, Minn., assignor to Victor Talking Machine Company, Camden, N. J. Radio attachment for phonographs. Re17,408; Aug. 20.
- Linendoll, Asa E., Norwalk, Ohio. Vehicle heater. 1,706,699; Mar. 26.
- Linendoll, Asa E., Norwalk, Ohio. Cut-out valve. 1,706,700; Mar. 26.
- Lineweaver, William C., St. Louis, Mo. Measuring device. 1,718,052; June 18.
- Ling, Walter H., Paterson, N. J. Door-operating mechanism. 1,697,125; Jan. 1.
- Lingenfelter, Henry J. (See Austin, Clarence G., assignor.)
- Lingg, Timothy L., Philadelphia, Pa. Collapsible umbrella. 1,703,741; Feb. 26.
- Lingham, George N., and H. W. Williams, assignors of one-third to F. L. Walker and two-thirds to O. T. Lingham, Dayton, Ohio. Accounting apparatus. 1,706,622; Mar. 26.
- Lingham, Olive T., et al. (See Lingham, G. N., and Williams, assignors.)
- Lingle, James L., Haxtun, Colo. Blackboard. 1,710,630; Apr. 23.
- Lingo, Archibald E., Collingswood, assignor to John E. Lingo & Son, Inc., Camden, N. J. Making columns. 1,722,671; July 30.
- Lingo, Archibald E., Collingswood, assignor to John E. Lingo & Son, Inc., Camden, N. J. Making columns and the like. 1,741,704; Dec. 31.
- Lingo, John E., & Son, Inc. (See Lingo, Archibald E., assignor.)
- Linhardt, Charles, jr., Baltimore, Md. Marine torch. 1,737,424; Nov. 26.
- Linhardt, John H., St. Francois, Mo., assignor to National Lead Company. Mine car. 1,729,113; Sept. 24.
- Link-Belt Company. (See Brockschmidt, Walter, assignor.)
- Link-Belt Company. (See Erisman, John L., assignor.)
- Link-Belt Company. (See Gayman, Bert A., assignor.)
- Link-Belt Company. (See Hobart, Charles J., assignor.)
- Link-Belt Company. (See Klidder, Elwin H., assignor.)
- Link-Belt Company. (See Petersen, John H. D., assignor.)
- Link-Belt Company. (See Reese, Gomar, assignor.)
- Link-Belt Company. (See Sayers, William W., assignor.)
- Link-Belt Company. (See Sayers, W. W., and Eilersgaard, assignors.)
- Link-Belt Company. (See Tark, Marcus B., assignor.)
- Link-Belt Company. (See Young, Charles M., jr., assignor.)
- Link, Louis. (See Weller, D. R., and Link.)
- Link, Louis, and M. B. Amis, Baton Rouge, La., assignors to Standard Oil Development Company. Purifying hydrocarbon oils. 1,718,714; June 25.
- Link, Oliver L., St. Charles, Mo. Upper buffing mechanism for the diaphragm face plates of vestibule railway coaches. 1,704,394; Mar. 5.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,697,533; Jan. 1.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Engine. 1,699,332; Jan. 15.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,703,828; Feb. 26.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Internal-combustion engine. 1,706,623; Mar. 26.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake-control mechanism. 1,713,842; May 21.
- Linke-Hofmann-Werke A. G. Abteilung Fullnerwerk. (See Grössler, Friedrich, assignor.)
- Linn, Albin T., Port Angeles, Wash. Pin lock. 1,739,847; Dec. 17.
- Linn, George W., Columbus, Ohio. Reversible window. 1,730,222; Oct. 1.
- Linn, Holman H., assignor to The Linn Manufacturing Corporation, Morris, N. Y. Snowplow. 1,701,979; Feb. 12.
- Linn Manufacturing Corporation, The. (See Linn, Holman H., assignor.)
- Linn Motor Devices Company. (See Linn, William J., assignor.)
- Linn, Raymond, Detroit, assignor to The Ford Motor Company, Highland Park, Mich. Hob. 1,724,608; Aug. 13.
- Linn, William J., assignor to Linn Motor Devices Company, Pittsburgh, Pa. Choke control. 1,707,763; Apr. 2.
- Linney, Joseph R., Clinton County, N. Y. Sintering machine. 1,741,943; Dec. 31.
- Linney, Joseph R., Clinton County, N. Y. Sintering machine. 1,741,944; Dec. 31.
- Lino, George D., Denver, Colo. Signature key. 1,701,785; Feb. 12.
- Linotype and Machinery Limited. (See Banks, John N., assignor.)
- Linotype and Machinery Limited. (See Field, Joseph G. W., assignor.)
- Linotype and Machinery Limited. (See Greaves, Wilfred, assignor.)
- Linotype and Machinery Limited. (See Holbourns, J. G., and Bower, assignors.)
- Linsay-McHillan Co. (See Pate, W. R., and Gitzen, assignors.)
- Linsie, Harry J., Ozone Park, N. Y. Ignition plug. 1,713,843; May 21.
- Linsell, Alfred A., Brentwood, England, assignor to Radio Corporation of America. Recording and reproducing sound. 1,737,253; Nov. 26.
- Linsley, Douglas F., Stratford, assignor of one-third to F. J. Linsley, New Haven, Conn., and one-third to G. G. Wyant, Owensmouth, Calif. Vacuum-operated gear-shifter. 1,733,502; Oct. 29.
- Linsley, Frank J., et al. (See Linsley, Douglas F., assignor.)
- Linsley, Lancelot, Pittsburgh, Pa. Shovel. 1,716,785; June 11.
- Lint, Heinrich. (See Woetzel, K., and Lint.)
- Lint, John N., and R. M. Cook, Meyersdale, Pa. Device for refacing brake drums, etc. 1,736,085; Nov. 19.
- Lintern, William, Cleveland, Ohio. Air duct. 1,738,377; Dec. 3.
- Lintner, Charles W., assignor of one-half to H. E. Stetler, Kansas City, Mo. Framing instrument. 1,717,570; June 18.
- Linton, Grant, New York, N. Y. Motor-vehicle top. 1,717,515; June 18.
- Linton, Morris, Swarthmore, Pa. Locomotive truck. 1,731,143; Oct. 8.
- Lintz, Eneas, Rio de Janeiro, Brazil. Life-saver that serves also as a buffer. 1,725,091; Aug. 20.
- Linz, John, Pittsburgh, Pa. Ventilator. 1,704,571; Mar. 5.
- Lion, Charles R., Los Angeles, Calif. Automatic sewer flusher. 1,702,944; Feb. 19.
- Lion Collar & Shirts, Inc. (See Dormandy, Garry J., assignor.)
- Lion Match Company. (See Greenbaum, L., and Van Hoofstadt, assignors.)
- Lion Match Co. (See Greenbaum, L., Van Hoofstadt, and Gustavson, assignors.)
- Lionel Corporation, The. (See Caruso, Louis, assignor.)
- Lionel Corporation, The. (See Caruso, Mario, assignor.)
- Lipcot, Fred L., New York, N. Y., assignor, by mesne assignments, to The Rubber Shock Insulator Corporation, Wilmington, Del. Cushion connection for vehicle construction. 1,714,130; May 21.
- Lipe, Charles W., San Jose, Calif. Pump. 1,721,825; July 23.
- Lipman, Gabriel, Chicago, Ill. Life-insurance-policy table-value printing-in system. 1,738,911; Dec. 10.
- Lipp, Albert E., Philadelphia, Pa. Telephone attachment. 1,735,008; Nov. 12.
- Lipp, John S., Chicago, Ill. Tool holder. 1,736,449; Nov. 19.
- Lippe, Martin, assignor to Hedman Manufacturing Company, Chicago, Ill. Coin-delivery chute. 1,731,783; Oct. 15.
- Lipper, Clarence, assignor to Lipper Manufacturing Co., Inc., Philadelphia, Pa. Textile fabric. 1,698,639; Jan. 8.
- Lipper, Clarence, Philadelphia, Pa., assignor to The Lipper Manufacturing Co., Inc. Making hats and the product thereof. 1,735,467; Nov. 12.
- Lipper, Harry M., Atlantic City, N. J., assignor to Lipper Manufacturing Co., Inc. Headgear and making the same. 1,720,560; July 9.
- Lipper Manufacturing Co. (See Lipper, Clarence, assignor.)
- Lipper Manufacturing Co. (See Lipper, Harry M., assignor.)
- Lippert, Albert C., and J. V. Flagmeier, Canton, Ohio. Holder for boxes. 1,704,047; Mar. 5.



- Lippert, Aloysius C., Kenosha, Wis., assignor to The Norlip Company, Chicago, Ill. Radiator cap. Des. 77,846; Feb. 26.
- Lippert, Richard, New York, N. Y. Ham boiler. 1,727,510; Sept. 10.
- Lippert, Samuel, Garfield Heights, Ohio. Windshield-cleaning apparatus and motor. 1,717,699; June 18.
- Lippert, Samuel, Garfield Heights, assignor to The Outlook Manufacturing Company, Cleveland, Ohio. Valve mechanism. 1,717,700; June 18.
- Lippincott, George A., Philadelphia, Pa. Machine for splitting pearl-button blanks. 1,712,223; May 7.
- Lippincott, Hazel A., Blackwood, N. J., assignor of one-half to B. M. Ross, Germantown, Pa. Permanent-wave comb. 1,700,064; Jan. 22.
- Lippmann, Max. (See Johnson, Colvin L., assignor.)
- Lippold, Adolph J. (See Strandt, G. E., and Lippold.)
- Lippold, Adolph J., Milwaukee, Wis., assignor, by mesne assignments, to Cherry-Burrell Corporation, Cedar Rapids, Iowa. Bottle-decapping apparatus. 1,740,186; Dec. 17.
- Lipschutz, Emanuel W., Brooklyn, N. Y., assignor to Brooklyn Scientific Products Co., Inc. Medicinal preparation. 1,714,430; May 21.
- Lipscomb, Gaston J., Montclair, N. J. Filter element. 1,716,786; June 11.
- Lipsius, Samuel, New York, N. Y. Sheet-powdering machine. 1,710,059; Apr. 23.
- Lipsky, Norman, New York, N. Y., assignor to Halcolite Company, Inc. Lighting-fixture spindle or article of analogous nature. Des. 78,034; Mar. 19.
- Lipson, Edward. (See Billotte, L. C., and Lipson.)
- Liptak, Michael, St. Paul, Minn. Inspection door. 1,729,948; Oct. 1.
- Lipton, Albert, Berkeley, Calif. Floor-waxing device. 1,726,399; Aug. 27.
- Liquid Carbonic Corporation, The. (See Cole, H. W., and McLaren, assignors.)
- Liquid Carbonic Corporation, The. (See Kantor, James, assignor.)
- Liquid Carbonic Corporation, The. (See Miller, Charles H., assignor.)
- Liquid Dispensing Systems, Inc. (See Hawxhurst, John J., assignor.)
- Liquid Dispensing Systems, Inc. (See Stedwell, George W., assignor.)
- Lisby, Tishman H., Tuscarora, Nev. License-plate holder. 1,739,682; Dec. 17.
- Lisenbee, G. W., et al. (See Gregory, Bige, assignor.)
- Lisher, Seth G., and C. Ratto, Napa, Calif. Mounting for combined wall base and floor coverings. 1,739,077; Dec. 10.
- Lisle Manufacturing Company. (See Olson, C. A., Buch, and Brooks, assignors.)
- Lispenard, George, and C. G. Hensley, Brooklyn, assignors to Wallis-Lispenard Cotton Harvester Co. Inc., New York, N. Y. Cotton harvester. 1,728,556; Sept. 17.
- Liss, Joseph J., Chicago, Ill. Indicating device. 1,718,967; July 2.
- Lissen, Olov G., Jersey City, N. J. Safety dashpot. 1,714,431; May 21.
- Lissman, Marcel A., Stanford University, Calif. Tone analyzer. 1,713,844; May 21.
- List, Hermann, Naumburg-on-the-Saale, Germany. Centrifugal apparatus. 1,703,742; Feb. 26.
- Lister & Company. (See Watson, William H., assignor.)
- Lister, R. A., & Company Limited. (See Maw, Wilfred G., assignor.)
- Listing, Friedrich W. O., Milwaukee, Wis. Composition coffin. 1,730,666; Oct. 8.
- Litchfield, Edgar C., and V. Speer, Cedar Falls, Iowa; said Speer assignor to Litchfield Manufacturing Company. Fertilizer distributor. 1,713,389; May 14.
- Litchfield, George A., assignor to Litchfield Shuttle Company, Southbridge, Mass. Self-threading loom shuttle. 1,728,160; Sept. 10.
- Litchfield, Isaac W., Boston, Mass. Bottle opener. 1,728,418; Sept. 17.
- Litchfield Manufacturing Company. (See Litchfield, E. C., and Speer, assignors.)
- Litchfield, Paul W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. Des. 78,579; May 21.
- Litchfield Shuttle Company. (See Litchfield, George A., assignor.)
- Little, Thomas J., Jr., Indianapolis, Ind. Refrigerating system. 1,724,944; Aug. 20.
- Little, Thomas J., Jr., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerating apparatus. 1,703,311; Feb. 26.
- Little, Thomas J., Jr., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerating system. 1,711,270; Apr. 30.
- Little, Thomas J., Jr., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerating apparatus. 1,712,085; May 7.
- Little, Thomas J., Jr., assignor to Copeland Products, Inc., Detroit, Mich. Pumping mechanism. 1,713,234; May 14.
- Little, Thomas J., Jr., assignor to Copeland Products, Inc., Detroit, Mich. Pump for refrigerating apparatus. 1,717,847; June 18.
- Little, Thomas J., Jr., assignor to Copeland Products, Inc., Detroit, Mich. Refrigeration condensing mechanism. 1,731,630; Oct. 15.
- Little, Thomas J., Jr., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerator. 1,741,638; Dec. 31.
- Litmo Adhesive & Products Company. (See Hoche, Adam, assignor.)
- Litsinger, Anthony R. (See Sherman, G. R., and Litsinger.)
- Litt, James A., Stratford, Ontario, Canada. Snowplow. 1,712,891; May 14.
- Littau, Henry G., et al. (See Weiss, Benjamin, assignor.)
- Littell, Nelson. (See Hebig, Henry C., assignor.)
- Littell, Nelson, New York, N. Y. Process of and apparatus for preparing printing cylinders. 1,737,378; Nov. 26.
- Littell, William S. (See Boomer, G. R., and Littell.)
- Litter, Frederick A., Columbus, Ohio. Reaming or boring tool. 1,706,929; Mar. 26.
- Little, Anita G., Gorham, Me. Combined sewing outfit and material holder. Des. 78,035; Mar. 19.
- Little, Arthur D., Incorporated. (See Stevenson, Earl P., assignor.)
- Little, Charles H., East Cleveland, Ohio. Ruler. 1,728,419; Sept. 17.
- Little, Charles H., East Cleveland, Ohio. Ruler. 1,728,420; Sept. 17.
- Little, Charles R. (See Elton, M. S., and Barnhart, assignors.)
- Little, Charles R., Coventry, England. Cover for joints. 1,740,740; Dec. 24.
- Little, Charles R., Coventry, assignor to H. Lord, Earlston, England. Gaiter for suspension springs. 1,713,611; May 21.
- Little, Donald G., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermionic discharge device. 1,709,029; Apr. 16.
- Little, Donald G., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmitting system. 1,712,572; May 14.
- Little, Donald G., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Thermionic device. 1,716,142; June 4.
- Little, Donald G., Edgewood, and N. C. Deffbaugh, Forest Hills, Pa., assignor to Westinghouse Electric and Manufacturing Company. Radio signaling means. 1,707,271; Apr. 2.
- Little, Earl W., Indianapolis, Ind. Bird cage. Des. 80,036; Dec. 3.
- Little, Earl W., Indianapolis, Ind. Bird cage. Des. 80,037; Dec. 3.
- Little, Earl W., Indianapolis, Ind. Heat deflector. 1,699,899; Jan. 22.
- Little, Edwin G., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-switch-operating apparatus. 1,709,859; Apr. 23.
- Little, Frederick B., assignor to J. C. Deagan, Inc., Chicago, Ill. Hanger for object-carrying bails. 1,710,993; Apr. 30.
- Little Giant Manufacturing Co. (See Hessel, Edward L., assignor.)
- Little, H. B., et al. (See Boland, Virgil E., assignor.)
- Little, Harold B., assignor to The Baltimore Enamel & Novelty Company, Baltimore, Md. Sign-supporting stand. 1,704,199; Mar. 5.
- Little, John W., Pawtucket, R. I. End label for tubular cloth rolls. 1,738,378; Dec. 3.
- Little, Marion M. (See Mellen, Marion.)
- Little, Percy F., Lyon Park, Va. Automatic choke-valve control. 1,741,706; Dec. 31.
- Little River Redwood Co., The. (See Barry, James P., assignor.)
- Little, Thomas P., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Collapsible holding device. 1,704,440; Mar. 5.
- Little, Thomas P., Chicopee Falls, and W. F. Irrgang, Chicopee, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Method and apparatus for building band tire carcasses. 1,723,565; Aug. 6.
- Little, Wilber R., Iowa Falls, Iowa. Union coupling. 1,707,087; Mar. 26.
- Little, Wilber R., Iowa Falls, Iowa. Flowerpot. 1,707,559; Apr. 2.
- Little, William, Oak Park, Ill. Wrench. 1,700,323; Jan. 29.
- Little, William F., Chicago, Ill. Razor. 1,712,086; May 7.
- Little, William F., Yonkers, N. Y. Measuring device. 1,722,101; July 23.
- Littlefield, Calvin G., Glencoe, Ill. Game apparatus. 1,704,617; Mar. 5.
- Littlefield, Carl, assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich. Machine for feeding coupons, labels, and the like. 1,718,963; July 2.
- Littlefield, Edgar E., Seattle, Wash. Electric controlling apparatus. 1,709,083; Apr. 16.
- Littlefield, Edgar E., Los Angeles, Calif. Controlling electric currents. 1,717,791; June 18.
- Littlefield, Henry B., Bronxville, N. Y. Building construction. 1,726,400; Aug. 27.
- Littleford, John W. (See Nutter, E. H., and Littleford.)
- Littler, James H., assignor to S. Cheney & Son, Manlius, N. Y. Machine for grinding valves and analogous objects. 1,738,011; Dec. 3.
- Littler, Martha E. (See Littler, Robert, sr., assignor.)



- Littler, Robert, sr., assignor to M. E. Littler, Philadelphia, Pa. Safety device for automobile starters. 1,732,851; Oct. 22.
- Littleton, Jesse T., jr., assignor to Corning Glass Works, Corning, N. Y. Refractory product and making the same. 1,728,350; Sept. 17.
- Littleton, Jesse T., jr., and C. R. Smith, assignors to Corning Glass Works, Corning, N. Y. Method of and apparatus for perforating glass. 1,722,010; July 23.
- Littman, Zeno, New York, N. Y. Detachable wheel rim. 1,718,697; June 25.
- Litton, Clyde T., Inglewood, Calif. Internal-combustion motor. 1,707,737; Apr. 2.
- Litvinas, Zenonas L., Chicago, Ill. Multiple-spindle lathe. 1,717,047; June 11.
- Litzenberger, William H., Norwood, Ill. Cultivator rake. 1,723,486; Aug. 6.
- Lively, Phillip H. (See McNeill, James S., assignor.)
- Liverant, Moses, York, Pa. Steam hat and cap stretcher and shrinker. 1,720,602; July 9.
- Livergood, Gerald R., Houston, Tex. Interior pipe wrench. 1,734,439; Nov. 5.
- Livergood, Gerald R., Houston, Tex. Holder for nursing bottles and the like. 1,739,909; Dec. 17.
- Livergood, Gerald R., Houston, Tex. Combined nipple and bottle holder. 1,739,910; Dec. 17.
- Livemore, Homer F., Brookline, Mass. Making vibrator connectors for looms. 1,697,773; Jan. 1.
- Livesay, Everett G., Dayton, Ohio. Gear puller. 1,715,506; June 4.
- Livesey, Andrew, Manchester, England. Apparatus for stretching textile or other fabrics or materials. 1,728,067; Sept. 10.
- Livezey Surgical Service, Inc. (See Jenkins, Stanley S., assignor.)
- Livingston, Alan V., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration. 1,708,625; Apr. 9.
- Livingston, Alan V., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Refrigeration. 1,708,626; Apr. 9.
- Livingston, Alan V., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Storage-battery-charging system. 1,720,519; July 9.
- Livingston, Alan V., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Storage-battery-charging system. 1,720,521; July 9.
- Livingston, Alan V., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Vehicle driving apparatus and system. 1,723,282; Aug. 6.
- Livingston, Alan V., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Vehicle driving apparatus and system. 1,723,283; Aug. 6.
- Livingston, Alan V., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Vehicle driving apparatus and system. 1,723,284; Aug. 6.
- Livingston, Alan V., Englewood, N. J., assignor to The Safety Car Heating & Lighting Company. Vehicle driving apparatus and system. 1,723,285; Aug. 6.
- Livingston, Charles S., Oakland, Calif. Fire extinguisher. 1,732,274; Oct. 22.
- Livingston, Fremont P., Denver, Colo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle cock. 1,700,847; Feb. 5.
- Livingston, Fremont P., Denver, Colo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle cock. 1,703,889; Mar. 5.
- Livingston, Fremont P., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automotive brake. 1,707,272; Apr. 2.
- Livingston, Ira W., Bridgeport, Ohio. Household reminder. 1,717,048; June 11.
- Livingston, Ivan, Oakland, Calif. Lawn-mower attachment. 1,732,808; Oct. 22.
- Livingston, J., & Co. (See Ansel, Murry L., assignor.)
- Livingston, J., & Co. (See Kelly, John A., assignor.)
- Livingston, Ralph W., Holloway, Ohio. Pipe brace and hanger. 1,701,880; Feb. 5.
- Lizyness, Martin H. (See Roy, L., Jennings, and Lizyness.)
- Ljungkull, Rolf. (See Mitchell, H. L., and Ljungkull.)
- Ljungkull, Rolf, assignor to Harnischfeger Corporation, Milwaukee, Wis. Hitch or clevis for dragline buckets. 1,710,740; Apr. 30.
- Ljunglof, George L., New York, N. Y., assignor to American Optical Company, Southbridge, Mass. Optical instrument. 1,698,057; Jan. 8.
- Ljungström, Fredrik, Lidings-Brevik, and A. Lysholm, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Condenser plant for locomotives. 1,717,457; June 18.
- Ljungström, Fredrik, Lidings-Brevik, I. Broberg, Skarsåtra, Lidings, and E. O. Eriksson, Lidings-Brevik, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Air preheater for locomotives. 1,740,696; Dec. 24.
- Llewellyn, Chandler, Buffalo Township, Butler County, Pa. Pneumatic wheel for vehicles. 1,710,265; Apr. 23.
- Llewellyn Iron Works. (See Thomas, James A., assignor.)
- Llewellyn Iron Works. (See Walker, Cranford P., assignor.)
- Llewellyn, Lee, and C. L. Kenney, Dormont, assignors to Pittsburgh Coal Washer Company, Pittsburgh, Pa. Conveyor. 1,710,883; Apr. 30.
- Lloyd, Burt E., Montclair, N. J. Doll. 1,730,854; Oct. 8.
- Lloyd, Chester H., Richmond, Va. Awning. 1,727,473; Sept. 10.
- Lloyd, Dorothy J. (See Pickard, R. H., Lloyd, and Caunce.)
- Lloyd, E. E., Paper Co. (See Kember, Robert E., assignor.)
- Lloyd, George F., Brighton, Victoria, assignor to Spectrum Dyes Proprietary Limited, Melbourne, S. C. 4, Australia. Dyeing of fabric. 1,717,792; June 18.
- Lloyd, Henry H. (See James, George S., assignor.)
- Lloyd, Herbert D., New York, N. Y. Disappearing picture illuminator. 1,739,320; Dec. 10.
- Lloyd, Herman R. (See Reynolds, J. E., Lloyd, and Gunn.)
- Lloyd, Marshall B., Menominee, Mich., assignor to Heywood-Wakefield Company, Boston, Mass. Reed-weaving machine. 1,703,276; Feb. 26.
- Lloyd, Myron B., Detroit, Mich. Carburetor. 1,707,229; Apr. 2.
- Lloyd, Philip G., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Jar. Des. 79,377; Sept. 10.
- Lloyd, Richard L., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Apparatus for and process of smelting zinc ores. 1,709,135; Apr. 16.
- Lloyd, Samuel F. (See Watters, L. A., and Lloyd.)
- Lloyd, Stewart J., University, and A. M. Kennedy, Montgomery, assignors to Federal Phosphorus Company, Birmingham, Ala. Making carboic acid. 1,735,327; Nov. 12.
- Lloyd, W. H. S., Co. (See Gray, Edwin T., assignor.)
- Lloyd, William F., assignor to The Cooper Corporation, Cincinnati, Ohio. Electric snap switch. 1,705,774; Mar. 19.
- Lloyd, William H., Chicago, Ill. Sanitary device. 1,716,730; June 11.
- Loat, William H. (See Lawrence, Edward H., assignor.)
- Loayza, Thomas A., Los Angeles, Calif. Story game. 1,716,069; June 4.
- Loback, Charles T., Sikeston, Mo. Valve mechanism for internal-combustion engines. 1,720,489; July 9.
- Lobban, Albert, Detroit, Mich. Display stand for doors and similar articles. 1,736,828; Nov. 26.
- Lobdell, George S., Potsdam, and H. J. Kauth, Rome, N. Y. Detection of methyl chloride. 1,710,933; Apr. 30.
- Lobel, Herman, New York, N. Y. Display rack. 1,713,704; May 21.
- Lobley, Alfred G., Chapel-en-le-Frith, assignor to Birmingham Electric Furnaces Limited, Birmingham, England. Electrical switch. 1,728,242; Sept. 17.
- Lo Boves, Michael C., Ridgefield Park, N. J., assignor to United Piano String Company, New York, N. Y. Pipe cleaner. 1,738,836; Dec. 10.
- Locher, Fritz. (See Gams, A., and Locher.)
- Lochhead, Elmer C., Moberly, Mo., assignor to Scott & Williams, Incorporated, New York, N. Y. Attachment for knitting machines. 1,727,171; Sept. 3.
- Lochhead, James S. (See Kernohan, R. B., and Lochhead.)
- Lochhead, James S. (See Kernohan, R. B., Lochhead, and Trinks.)
- Lochman, Emil R., Milwaukee, Wis. Combination headlight. 1,733,613; Oct. 29.
- Lochner, Albert T., Louisville, Ky. Screw driver. 1,708,766; Apr. 9.
- Lochrie, Thomas, assignor to Windber Manufacturing Co., Windber, Pa. Windshield wiper. 1,730,465; Oct. 8.
- Lock, Jack, Greenville, S. C., assignor to J. E. Lock, Charlotte, N. C. Base protector for bobbins and method of assembling. 1,740,253; Dec. 17.
- Lock, Jack, Greenville, S. C., assignor to J. E. Lock, Charlotte, N. C. Base protector and driver for bobbins and the like. 1,740,309; Dec. 17.
- Lock, John E. (See Lock, Jack, assignor.)
- Lock, John H., Hazel Park, Mich. Mechanical gear shift for automobiles. 1,725,151; Aug. 20.
- Lock, Michael, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Voltage regulator. 1,724,846; Aug. 13.
- Lock Steel Chain Company, The. (See Locke, S. D., and Parker, assignors.)
- Lock Steel Chain Company, The. (See Parker, Charles, assignor.)
- Locke, Edward B., Dayton, Ohio, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Computing mechanism. 1,704,200; Mar. 5.
- Locke, George A., Glen Cove, assignor to Western Electric Company, Incorporated, New York, N. Y. Synchronous telegraph system. 1,717,049; June 11.
- Locke, George A., Glen Cove, L. I., assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency changer. 1,738,253; Dec. 3.
- Locke, George N., and C. Hünnicht, Wilmington, Ohio. Device for lifting ears of corn. 1,715,039; May 28.
- Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
- Locke Insulator Corporation. (See Gouverneur, Minor F. H., assignor.)
- Locke Insulator Corporation. (See Gouverneur, M. F. H., and Stevens, assignors.)
- Locke Insulator Corporation. (See Hawley, Kent A., assignor.)
- Locke Insulator Corporation. (See Moore, Stewart L., jr., assignor.)
- Locke Insulator Corporation. (See Osborne, David H., assignor.)
- Locke Insulator Corporation. (See Plimpton, Bentley A., assignor.)



- Locke Insulator Corporation. (See Schoenthaler, George H., assignor.)
- Locke Steel Chain Company, The. (See Parker, Charles, assignor.)
- Locke, Sylvanus D., Bridgeport, Conn. Chain link. 1,699,400; Jan. 15.
- Locke, Sylvanus D. and C. Parker, assignors to The Locke Steel Chain Company, Bridgeport, Conn. Apparatus for making chain. 1,724,847; Aug. 13.
- Locke, William C., assignor to General Railway Signal Company, Rochester, N. Y. Operating means for circuit controllers. 1,713,493; May 14.
- Lockett, A. M., & Company. (See Lockett, Andrew M., assignor.)
- Lockett, Andrew M., assignor to A. M. Lockett & Company, Ltd., New Orleans, La. Gravel washer and separator. 1,698,442; Jan. 8.
- Lockett, Ralph G., Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer Inc. Electrical controller for conveying systems. 1,725,202; Aug. 20.
- Lockett, Ralph G., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Motor controller. 1,726,674; Sept. 3.
- Lockett, William, Philadelphia, Pa. Butter cutter. 1,705,257; Mar. 12.
- Locklear, Norwood, Jones Point, N. Y. Floor lamp. Des. 77,699; Feb. 12.
- Locklite Company, The. (See Clemetson, Selmer A., assignor.)
- Lockwood, Arthur L. (See King, D. W., and Lockwood.)
- Lockwood, Erwin A., Royal Oak, assignor to American Electrical Heater Company, Detroit, Mich. Electric soldering iron. 1,713,845; May 21.
- Lockwood, George D., and J. G. Soderberg, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Center bearing for tube frames. 1,711,604; May 7.
- Lockwood, Harry D., Kansas City, Kans. Baby-chicken brooder. 1,709,136; Apr. 16.
- Lockwood, Lee, Des Moines, Iowa. Oil-burning heater. 1,697,687; Jan. 1.
- Lockwood Manufacturing Company, The. (See Prabell, Albert, assignor.)
- Lockwood, Marquis H., assignor to C. Errett, New York, N. Y. Collapsible paper cup. 1,738,779; Dec. 10.
- Lockwood, Paul M., Irvington, N. J. Tire cover. 1,718,969; July 2.
- Lochlif Company, The. (See Nicholson, Stanley W., assignor.)
- Locomotive Booster Company. (See Farmer, Clyde C., assignor.)
- Locomotive Economizer Corporation. (See Foster, Guy T., assignor.)
- Locomotive Finished Materials Company, The. (See Casey, W. F. J., Cavin, and Brooks, assignors.)
- Locomotive Finished Material Company. (See Jensen, Oluf F., assignor.)
- Locomotive Finished Material Company, The. (See Muchnic, Henry E., assignor.)
- Locomotive Firebox Company. (See Hawley, Charles G., assignor.)
- Locomotive Firebox Company. (See Hinsch, W. H., and Christenson, assignors.)
- Locomotive Firebox Company. (See Nelson, Arthur W., assignor.)
- Locomotive Firebox Company. (See Nicholson, John L., assignor.)
- Locomotive Firebox Co. (See Rogers, Cecil M., assignor.)
- Locomotive Pulverized Fuel Company. (See Caracristi, Virginius Z., assignor.)
- Locomotive Terminal Improvement Company, The. (See Otis, Spencer, assignor.)
- Lodding, Frederick W. (See Berry, E. E., and Lodding.)
- Lodding, Frederick W., assignor to Rice, Barton & Fales, Inc., Worcester, Mass. Slitting machine. 1,731,902; Oct. 15.
- Lodge, Harry, Philadelphia, Pa. Combined outside light, mail box, and house number. Re17,418; Aug. 27.
- Lodge & Shipley Machine Tool Company, The. (See Cockburn, Francis B., assignor.)
- Loeb, James, Murnau, Bavaria, Germany. Cupboard, bookcase, or the like. 1,730,154; Oct. 1.
- Loeb, Joseph H., Morgan City, La. Signal device for pneumatic tires. 1,699,366; Jan. 15.
- Loebe, Walther-Winfried, Waidmannslust-Berlin, and W. Ledig, Berlin, Germany, assignors to General Electric Company. Lamp-making machine. 1,707,675; Apr. 2.
- Loeben, Wilhelm, Dresden-A., Germany. Core holder for artificial flowers. 1,715,461; June 4.
- Loeck, Günther, assignor to the Firm Georg Wolf G. m. b. H., Berlin, Germany. Optical system. 1,706,930; Mar. 26.
- Loeffelholz Company. (See Bernhardt, Paul A., assignor.)
- Loeffelman, Leo J., St. Louis, Mo. Expansion reamer. 1,737,193; Nov. 26.
- Loehr, Charles E., assignor to The Safety Stair Tread Company, Wooster, Ohio. Stair-tread nosing. Re17,205; Feb. 5.
- Loehr, Oskar, Uerdingen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of polyalkylene glycol esters. 1,710,424; Apr. 23.
- Loenneke, Louis J., et al. (See Nemeth, Steffen P., assignor.)
- Loepsinger, Albert J., Providence, R. I. Burning liquid fuel. 1,700,269; Jan. 29.
- Loepsinger, Albert J., Providence, R. I. Liquid fuel burning. 1,700,592; Jan. 29.
- Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Valve. 1,699,706; Jan. 22.
- Loepsinger, Albert J., assignor, by mesne assignments, to General Fire Extinguisher Company, Providence, R. I. Automatic sprinkler. 1,700,591; Jan. 29.
- Loepsinger, Albert J., assignor, by mesne assignments, to General Fire Extinguisher Company, Providence, R. I. Water meter. 1,719,666; July 2.
- Loepsinger, Albert J., assignor to General Fire Extinguisher Company, Providence, R. I. Making quartz tubes. 1,737,662; Dec. 3.
- Loesch, Hugo G. (See Mennicke, Emil M., assignor, and E. K.)
- Loesche, Ernst C., Berlin-Lankwitz, Germany. Pulverizing mill. 1,733,417; Oct. 29.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,827; June 25.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,828; June 25.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,829; June 25.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,830; June 25.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,831; June 25.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,832; June 25.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,833; June 25.
- Loeser, Rudolph C., Louisville, Ky., assignor to Peerless Manufacturing Co., Dover, Del. Radiant gas heater. Des. 78,834; June 25.
- Loetscher, Emil C., Dubuque, Iowa. Removing knots and other defects from lumber. 1,703,890; Mar. 5.
- Loetscher, Emil C., Dubuque, Iowa. Fountain pen, medicine dropper, and the like. 1,713,187; May 14.
- Loetscher, Emil C., Dubuque, Iowa. Window-sash construction. 1,727,613; Sept. 10.
- Loetscher, Emil C., Dubuque, Iowa. Sliding stairway. 1,737,799; Dec. 3.
- Loew, Charles H., deceased, Avon Lake; F. Bomonti, administrator, assignor to The Cleveland Trust Company, Cleveland, Ohio. Bottle-cleaning apparatus. 1,700,944; Feb. 5.
- Loew, Charles H., deceased, Avon Lake; F. Bomonti, administrator, assignor to The Loew Filter Company, Cleveland, Ohio. Filter. 1,726,035; Aug. 27.
- Loew Filter Company, The. (See Loew, Charles H., assignor.)
- Loew, Paul W., Avon Lake, and R. R. McKechnie, assignors, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio. Bottle-cleaning apparatus. 1,719,844; July 9.
- Loewe, Hermann. (See Bergmann, M., Immendorfer, and Loewe.)
- Loewe, Siegmund, Berlin, Germany, assignor to Radio Corporation of America. Variable resistance. 1,702,066; Feb. 12.
- Loewe, Siegmund, Berlin, Friedenau, Germany, assignor to Radio Corporation of America. Resistor and making same. 1,717,712; June 18.
- Loewe, Siegmund, Berlin, Germany. Method and arrangement for obtaining perfect high vacuums. 1,726,111; Aug. 27.
- Loewe, Siegmund, Berlin, Friedenau, Germany, assignor to Radio Corporation of America. Receiver arrangement. 1,740,864; Dec. 24.
- Loewenbach, Hugo. (See Parker, Stanley F., assignor.)
- Loewenthal, Edward D., Chicago, Ill. Cutting apparatus. 1,719,229; July 2.
- Loewer, Alvin C., Parkville, Md., assignor to Westinghouse Electric & Manufacturing Company. Electrical instrument. 1,706,701; Mar. 26.
- Loewy, Aaron E., assignor, by mesne assignments, to R. and H. P. Liberman, Philadelphia, Pa. Controller actuation. 1,715,850; June 4.
- Loewy, Raymond G. F., Jackson Heights, N. Y. Automobile headlight. Des. 78,038; Mar. 19.
- Loewy, Raymond G. F., Jackson Heights, N. Y. Lamp. Des. 78,640; May 28.
- Loewy, Raymond G. F., Jackson Heights, N. Y. Combined automobile body, hood, and fenders. Des. 79,147; Aug. 6.
- Loewy, Raymond G. F., Jackson Heights, N. Y. Radiator for an automobile. Des. 79,974; Nov. 26.
- Loft, Emil, Stockholm, Sweden. Control mechanism. 1,732,651; Oct. 22.
- Löffler, Stephan, Charlottenburg, near Berlin, Germany. High-pressure slide valve. 1,707,125; Mar. 26.
- Löffler, Stephan, Charlottenburg, Germany. Manufacturing high-pressure boilers. 1,736,010; Nov. 19.
- Löffler, Stephan, Charlottenburg, near Berlin, Germany. Method and apparatus for generating steam, especially high-pressure steam. 1,740,254; Dec. 17.



- Lofgren, John, assignor to Ralco Manufacturing Company, Chicago, Ill. Lamp grip socket. 1,721,566; July 23.
- Lofgren, John, assignor to Ralco Manufacturing Company, Chicago, Ill. Electric switch. 1,725,535; Aug. 20.
- Lofgren, John, assignor to Ralco Manufacturing Company, Chicago, Ill. Electric connector. 1,729,949; Oct. 1.
- Lofland, Alfred M., Lebanon, Ind. Dual pneumatic wheel. 1,715,610; June 4.
- Lofman, Charles, Los Angeles, Calif., assignor to Robertl Bros. Adjustable in-a-door bed. 1,729,950; Oct. 1.
- Lofman, Charles, assignor to Los Angeles Spring Bed Company, Los Angeles, Calif. Tie. 1,732,652; Oct. 22.
- Lofman, Charles, Los Angeles, Calif., assignor to Robertl Bros. Nontipping roll-around bed. 1,736,203; Nov. 19.
- Lofthouse, William L., Los Angeles, Calif. Electric soldering iron. 1,714,385; May 21.
- Loffton, Herbert M., Chattanooga, Tenn. Fire hydrant. 1,717,392; June 18.
- Lofthsgaarden, Henry C., Keoma, Alberta, Canada. Animal trap. 1,726,909; Sept. 3.
- Lofy, Cecilia M., et al., executrices. (See Lofy, Peter.)
- Lofy, Magdalena, et al., executrices. (See Lofy, Peter.)
- Lofy, Peter, deceased, Decatur; C. M. Lofy and M. Lofy, executrices, Springfield, Ill. Brazing machine. 1,717,886; June 18.
- Logan, Amanda R., East Chelmsford, Mass. Fountain-syringe water bag. 1,717,458; June 18.
- Logan, Byron E. (See Skaggs, C. E., and Logan.)
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier. Des. 77,609; Jan. 29.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier. Des. 77,610; Jan. 29.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Brace for chandeliers. Des. 77,611; Jan. 29.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Spider for chandeliers. Des. 77,612; Jan. 29.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Spider for chandeliers. Des. 77,613; Jan. 29.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall fixture for electric lights. Des. 77,614; Jan. 29.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier arm. Des. 77,615; Jan. 29.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Chandelier. Des. 77,733; Feb. 19.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 78,164; Apr. 2.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Ring for chandeliers. Des. 78,165; Apr. 2.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Bracket arm for electric-light fixtures. Des. 78,166; Apr. 2.
- Logan, Charles W., Kenmore, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light ceiling fixture. Des. 79,033; July 23.
- Logan, Charles W., Kenmore, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light ceiling fixture. Des. 79,034; July 23.
- Logan, Charles W., Kenmore, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Canopy for electric-light fixtures. Des. 79,035; July 23.
- Logan, Charles W., Kenmore, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Husk for incandescent lamps. Des. 79,036; July 23.
- Logan, Charles W., Kenmore, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light ceiling fixture. Des. 79,037; July 23.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Arm for electric-light fixtures. Des. 79,148; Aug. 6.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Bracket arm for electric-light fixtures. Des. 79,149; Aug. 6.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Tassel for electric-light fixtures. Des. 79,150; Aug. 6.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Tassel for electric-light fixtures. Des. 79,151; Aug. 6.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Loop for electric-light fixtures. Des. 79,152; Aug. 6.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light ceiling fixture. Des. 79,153; Aug. 6.
- Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Tassel for electric-light fixtures. Des. 79,154; Aug. 6.
- Logan Co. (See Crady, Allen E., assignor.)
- Logan Co. (See Gotthardt, Henry R., assignor.)
- Logan Foundry and Machine Company The. (See Miller, William H., assignor.)
- Logan, Henry H. (See Lilly, W. J., and Logan.)
- Logan, James W., Chicago, Ill., assignor to The Vulcan Oil Burner Corporation, New York, N. Y. Oil-burning apparatus. 1,698,760; Jan. 15.
- Logan, Judson C. (See Wheeler, W. H., and Logan.)
- Logan, Lloyd, Baltimore, Md., assignor to The Koppers Company, Pittsburgh, Pa. Aeration apparatus. 1,717,713; June 18.
- Logan, Martin W., Los Angeles, Calif. Electrically-heated hat block. 1,699,073; Jan. 15.
- Logan, William J., Cleveland, Ohio. Machine for powdering plates to be etched. 1,724,671; Aug. 13.
- Logue, Charles H., Syracuse, N. Y. Device for burnishing bevel or hypoid gears. 1,716,924; June 11.
- Lohberg, Louis M., Des Moines, Iowa. Combined casket and vault display rack. 1,721,026; July 16.
- Lohr, Julius J., Chicago, Ill. Multiple switch. 1,707,126; Mar. 26.
- Lohman, Charles, Chula Vista, Calif. Hayrake. 1,710,366; Apr. 23.
- Lohman, Charles G., assignor to The Edwin F. Guth Company, St. Louis, Mo. Canopy lighting fixture. 1,715,769; June 4.
- Lohman, Ralph W., Los Angeles, Calif. Method and apparatus for purifying and charging a gas into vacuum tubes or other containers. 1,732,336; Oct. 22.
- Lohman, Ralph W., Hollywood, Calif. Vacuum tube. 1,739,513; Dec. 17.
- Lohman, Walter C. (See Robbins, W. H., and Lohman.)
- Lohmann, Hugo, Berlin-Wilmersdorf, Germany. Electrical heating body and manufacturing the same. 1,736,745; Nov. 19.
- Lohmann, William H., Wilmington, Del., assignor to General Chemical Company, New York, N. Y. Manufacturing sodium phosphate. 1,727,551; Sept. 10.
- Lohn, Albert W., Jr., Los Angeles, Calif. Auto door sign. 1,706,578; Mar. 26.
- Lohefener, Henry W., assignor of one-half to E. L. Wingblade, Kansas City, Mo. Valve-spring compressor. 1,699,500; Jan. 15.
- Lohrman, Thomas P., Detroit, Mich. Construction of closed vehicle bodies. 1,736,856; Nov. 26.
- Loiselle, Frank P. (See Loiselle, J. H., and Cohen, assignors.)
- Loiselle, Joseph H., and N. B. Cohen, assignors of one-third to F. P. Loiselle, Duluth, Minn. Snap link. 1,739,848; Dec. 17.
- Loiselle, William. (See Coghlan T., and Loiselle.)
- Lomax, Clarence E. (See Voss, J. H., and Lomax.)
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,698,137; Jan. 8.
- Lomax, Clarence E., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,698,138; Jan. 8.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Registration system. 1,698,726; Jan. 15.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. High and low voltage alarm equipment. 1,700,540; Jan. 29.
- Lomax, Clarence E., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,710,934; Apr. 30.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multioffice telephone system. 1,721,226; July 16.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,725,152; Aug. 20.
- Lomax, Clarence E., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,729,745; Oct. 1.
- Lomax, Clarence E., Oak Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Automatic telephone system. 1,735,328; Nov. 12.
- Lomax, Clarence E., Oak Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,737,930; Dec. 3.
- Lomax, Clarence E., Oak Park, assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,739,245; Dec. 10.
- Lomax, Clarence E., Oak Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Secretary service for telephones. 1,741,639; Dec. 31.
- Lombard, Charles E., East Wilton, Me. Heating attachment for stoves. 1,717,987; June 18.
- Lombard, Nathaniel, Worcester, Mass. Rim tool. 1,714,229; May 21.
- Lombardi, Lamberto, Rome, Italy. Flying machine. 1,739,402; Dec. 10.
- Lombardi, Vincent, Brooklyn, N. Y. Knitting. 1,728,293; Sept. 17.
- Lombardi, Vincent, Brooklyn, N. Y. Knitted fabric. 1,728,294; Sept. 17.
- Lombardi, Vincent, Brooklyn, N. Y. Knitting machine. 1,728,295; Sept. 17.
- Lombardi, Vincent, Brooklyn, N. Y. Knitting machine. 1,737,597; Dec. 3.
- Lombardi, Vincent, Brooklyn, N. Y. Knitting machine. 1,737,598; Dec. 3.
- Lombardini, Luigi, Turin, Italy. Card carrier for visible card indexes. 1,707,917; Apr. 2.
- Lombardini, Luigi, Turin, Italy. Visible-card file cabinet. 1,736,655; Nov. 19.
- Lombardini, Luigi, Turin, Italy. Visible card-index file. 1,742,087; Dec. 31.
- Lombardo, Antonio, Brooklyn, N. Y. Automatic bomb-dropping device. 1,741,195; Dec. 31.



- Lomer, Gerald B., Ottawa, Ontario, Canada. Differential pressure gauge and flow meter. 1,700,204; Jan. 29.
- Lommel, Wilhelm, Wiesdorf-on-the-Rhine, and T. Goost, Leverkusen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Hydrogenation of aromatic bases. 1,712,709; May 14.
- Lommel, Wilhelm, and H. Münzel, Wiesdorf, and H. Stötter and B. Wenk, Leverkusen, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Mothproof article and preparing it. 1,734,682; Nov. 5.
- Lomo, Henry, Chicago, Ill. Household appliance. 1,706,795; Mar. 26.
- Lo Monaco, Santo, Cleveland, Ohio. Railroad rail. 1,719,986; July 9.
- Lonaberger, Robert F., and C. F. Sands, Reading, Pa., assignors to L. A. Unger, trustee. Heavy-fuel vaporizer for internal-combustion engines. 1,718,569; June 25.
- Lonaberger, Robert F., and C. F. Sands, Reading, Pa., assignors to L. A. Unger, trustee. Vaporizer. 1,726,847; Sept. 3.
- Lonaberger, Robert F., and C. F. Sands, Reading, Pa., assignors to L. A. Unger, trustee. Heavy-fuel vaporizer for internal-combustion engines. 1,737,379; Nov. 26.
- Lonaberger, Robert F., and C. F. Sands, Reading, Pa., assignors to L. A. Unger, trustee. Vaporizer. 1,738,478; Dec. 3.
- Lonaberger, Robert F., and C. F. Sands, Reading, Pa., assignors to L. A. Unger, trustee. Liquid-fuel vaporizer. 1,738,497; Dec. 3.
- Lonas, Frank E., New York, and H. E. Thompson, Brooklyn, N. Y. Carburetor. 1,713,705; May 21.
- Londino, Joseph, assignor of thirty-nine per cent to M. Londino, ten per cent to J. M. Gambit, Elizabeth, N. J., and fifty-one per cent to E. A. McLarny, Jamaica, N. Y. Windshield cleaner. 1,733,546; Oct. 29.
- Londino, Minnie, et al. (See Londino, Joseph, assignor.)
- Londino, Daniel D., Detroit, Mich., assignor of one-half to M. S. Radetsky, Denver, Colo. Illuminated display device. 1,714,882; May 28.
- London, William J. A., Hartford, Conn., assignors to Peabody Engineering Corporation, New York, N. Y. Apparatus for pulverizing material. 1,737,800; Dec. 3.
- Lonergan, Patrick H., Whiting, Ind. Automobile radiator. 1,728,973; Sept. 24.
- Lonergan, Simon J., assignor to Bastian-Morley Co., La Porte, Ind. Apparatus for positioning parts on bodies. 1,712,925; May 14.
- Lonersan, Simon J., assignor to Bastian-Morley Company, La Porte, Ind. Electric heater for hot-water systems. 1,718,970; July 2.
- Long, Albert E. (See Crook, C. M., and Long.)
- Long, Albert N., jr. (See Turney, W. S., and Long.)
- Long, Albert R., assignor, by mesne assignments, to The F. R. U. Motors Co., Inc., New York, N. Y. Internal-combustion engine. 1,737,599; Dec. 3.
- Long, Allen T., Petersburg, Va. Trunk lock. 1,715,558; June 4.
- Long & Allstatler Company, The. (See Pater, Paul G., assignor.)
- Long, Arch O., Kansas City, Mo. Folding carton. 1,741,196; Dec. 31.
- Long, August, assignor to The Capitol Lighter Company, Inc., New York, N. Y. Pocket lighter. 1,728,866; Sept. 17.
- Long-Bell Lumber Company, The. (See Cone, Howard M., assignor.)
- Long-Bell Lumber Company, The. (See Huffman, Charles A., assignor.)
- Long, Bernard, assignor to Société Anonyme des Manufactures des Glaces & Produits Chimiques de St-Gobain, Chauny & Cirey, Paris, France. Electric furnace. 1,741,469; Dec. 31.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 78,115; Mar. 26.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 78,116; Mar. 26.
- Long, Dorothy, assignor to Franklin Simons & Company, Inc., New York, N. Y. Dress. Des. 78,214; Apr. 9.
- Long, Dorothy, assignor to Franklin Simon & Co., Inc., New York, N. Y. Bathing suit. Des. 78,399; Apr. 30.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 78,767; June 18.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 78,768; June 18.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 78,769; June 18.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 78,770; June 18.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Turban. Des. 78,890; July 2.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 79,730; Oct. 29.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 79,887; Nov. 12.
- Long, Dorothy, assignor to Franklin Simon & Co., New York, N. Y. Dress. Des. 80,131; Dec. 17.
- Long, Dorothy, assignor to Franklin Simon & Co., New York, N. Y. Coat. Des. 80,132; Dec. 17.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,133; Dec. 17.
- Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,134; Dec. 17.
- Long, Dorothy M., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 77,557; Jan. 22.
- Long, Eli M., assignor to Shur-On Standard Optical Company, Geneva, N. Y. Lens grinding and polishing machine. 1,709,943; Apr. 23.
- Long, Elmer C., assignor, by mesne assignments, to Security Trust Company, Detroit, Mich. Piston. 1,741,243; Dec. 31.
- Long, George M., Boston, Mass., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,488; Jan. 15.
- Long, George M., Boston, Mass., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,489; Jan. 15.
- Long, George R. (See Cordley, H. G., and Long.)
- Long, Harry E. (See Kurtz, Charles F., assignor.)
- Long, Herman W., Edna, Kans. Sectional float. 1,725,874; Aug. 27.
- Long, James J., Melvin, Ill. Throat, nose, and lip guard. 1,715,241; May 28.
- Long, John. (See Hazel, James O., assignor.)
- Long, John J. (See Wentworth, Joy V., assignor.)
- Long Manufacturing Company. (See Hawkins, Raymond L., assignor.)
- Long Manufacturing Company. (See Higgins, Harry A., assignor.)
- Long Manufacturing Company. (See Swank, Arthur L., assignor.)
- Long, Maurice B., Glen Ridge, N. J., assignor to Western Electric Company, Inc., New York, N. Y. Transmission of pictures by electricity. 1,706,032; Mar. 19.
- Long, Ralph B., Flint, Mich. Folding stool. 1,715,559; June 4.
- Long, Sidney L., Minneapolis, Minn. Multisection antenna and static modifier. 1,729,485; Sept. 24.
- Long, Thomas, South Bend, Ind. Furnace regulator. 1,698,551; Jan. 8.
- Long, William B. (See Thompson, C. S., and Long.)
- Long, William R. (See McFarland, F. W., and Long.)
- Longauer, Hubert, North Milwaukee, Wis. Exterminator. 1,717,714; June 18.
- Longfellow, Anna C., Larchmont, N. Y. Undergarment. 1,711,172; Apr. 30.
- Longfield, Charles, Islip Terrace, N. Y. Traffic signal. 1,720,420; July 9.
- Longhi, Carlo, Milan, Italy. Treating material in liquid state electrochemically. 1,720,910; July 16.
- Longiaru, Giovanni, assignor of one-half to E. Hopkins, New York, N. Y. Violin mute. 1,721,826; July 23.
- Longoria, Antonio, Lakewood, Ohio. Casing for an air purifier. Des. 80,135; Dec. 17.
- Long's Fixtures Corporation. (See Chapman, Louis A., assignor.)
- Longvall, Raymond C. (See Remington, A. L., and Longvall.)
- Longwell, Joseph T., Pittsburgh, Pa. Snubber for motor-vehicle springs. 1,736,410; Nov. 19.
- Lonsdale, William, Roselle Park, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Plate air-heater construction. 1,727,124; Sept. 3.
- Lontz, Harry R., assignor, by mesne assignments, to The F. & N. Lawn Mower Company of Delaware, Richmond, Ind. Gang lawn mower. 1,708,227; Apr. 9.
- Lontz, Harry R., assignor to F. & N. Lawn Mower Company, Richmond, Ind. Gang mower. 1,729,002; Sept. 24.
- Loock, Carl H. (See Hansen, Lorin L., assignor.)
- Loock, Robert J., Baltimore, Md. Lubricant-retaining washer. 1,740,929; Dec. 24.
- Loofbourrow, Charles F., Oakland, Calif. Shoe-fastening device. 1,711,419; Apr. 30.
- Loomis, Alfred L., Tuxedo Park, N. Y., and R. W. Wood, Baltimore, Md. Method and apparatus for forming emulsions and the like. 1,734,975; Nov. 12.
- Loomis, Allen, Elkhart, Ind. Octave-key mechanism for musical instruments. 1,706,796; Mar. 26.
- Loomis, Chauncey C. (See Jones, L. C., Loomis, and Banks.)
- Loomis, Chauncey C., Yonkers, and A. D. MacDonald, Hastings-on-Hudson, assignors to Colloidal Lime Plaster Corporation, New York, N. Y. Quick-setting lime product and making the same. 1,732,409; Oct. 22.
- Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Rear sight for firearms. 1,715,203; May 28.
- Loomis, Crawford C., Ilion, N. Y., assignor to Remington Arms Company, Inc. Firearm. 1,740,187; Dec. 17.
- Loomis, Harold S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for controlling railway switches. 1,701,080; Feb. 5.
- Loomis, Harold S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for controlling railway switches. 1,711,570; May 7.
- Loomis, Monte C., Mankato, Minn. Small-arm explosive shell. 1,705,870; Mar. 19.
- Loomis, Nathaniel E. (See Lewis, W. K., and Loomis.)
- Loomis, Ralph L., Bedford, Mass., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Laminated pulp board and making the same. 1,737,234; Nov. 26.
- Loomis, Walter A., Long Beach, Calif. Well-cementing method and means. 1,716,925; June 11.
- Loose-Wiles Biscuit Co. (See Rogers, Walter L., assignor.)
- Loots, Bherend R., and W. Elsen, Palmer, Iowa. Tractor wagon hitch for corn huskers. 1,708,922; Apr. 9.
- Loper, George W. (See Loper, Samuel E. and G. W.)



- Loper, Samuel E. and G. W., Oshkosh, Wis. Combination wreath and bouquet holder for graves. 1,720,338; July 9.
- Lopez, Jesus. (See Caballero, J., and Lopez.)
- Lopez, John R. (See Levin, M., and Lopez.)
- Lopez, Juan G., Habana, Cuba. Cigar holder. 1,734,815; Nov. 5.
- Lopez, Nicolas A., Chicago, Ill. Control device. 1,723,871; Aug. 6.
- Lopez, Ranulfo, et al. (See Cantú, Jesus, assignor.)
- Löpmann, Bernhard. (See Glud, W., and Lopmann.)
- Lopp, Frank. (See Hoge, S. A., and Lopp.)
- Loppacker, Albert, Bloomfield, N. J. Plate for radiotubes. 1,700,945; Feb. 5.
- Lopulco Systems, Inc. (See Muhlfeld, J. E., and Caracristi, assignor.)
- Loram, Edward R., London, assignor of one-third to D. S. Alexander and one-third to T. Phillips, Essex, England. Unidirectional driving gear. 1,710,631; Apr. 23.
- Lorance, George T., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Transmission regulation. 1,734,219; Nov. 5.
- Lorang, William J. (See Williams, William G., assignor.)
- L'Orange, Prosper, Mannheim, Germany. Fuel pump for internal-combustion engines. 1,740,360; Dec. 17.
- L'Orange, Prosper, Stuttgart, Germany. Spray-controlling device for road-scavenging machines. 1,740,361; Dec. 17.
- Loranger, Hubert R., Hillsdale, Mich., and D. D. Parshall, Watervliet, N. Y.; said Loranger assignor to Automatic Freezer Corporation, Detroit, Mich. Thermostat. 1,709,944; Apr. 23.
- Lorber, Charles, Louisville, Ky. Identification key plate. 1,705,258; Mar. 12.
- Lorber, Charles, Louisville, Ky. Key case. 1,721,307; July 16.
- Lorber, Charles, Louisville, Ky. Flag holder. 1,739,009; Dec. 10.
- Lorber, Charles, Bloomfield, N. J. Key case. 1,709,532; Apr. 16.
- Lorber, Charles, Bloomfield, N. J. Identification key plate. 1,711,736; May 7.
- Lorber, Charles, Bloomfield, N. J. Key case. 1,723,286; Aug. 6.
- Lorber, Charles, Bloomfield, N. J. Swivel key hook. 1,729,621; Oct. 1.
- Lord & Burnham Company. (See Hart, Stephen H., assignor.)
- Lord & Burnham Company. (See Terhune, Edwin W., assignor.)
- Lord, Frank H., Detroit, Mich. Composite piston. 1,709,316; Apr. 16.
- Lord, Fred W., assignor to The Oakes Manufacturing Company, Tipton, Ind. Drinking fountain for poultry. 1,702,973; Feb. 19.
- Lord, Frederic J., New York, N. Y. Police club. 1,700,440; Jan. 29.
- Lord, Herbert. (See Little, Charles R., assignor.)
- Lord, Hugh C., Erie, Pa. Joint. 1,707,213; Mar. 26.
- Lord, Hugh C., Erie, Pa. Joint. 1,707,214; Mar. 26.
- Lord, Joseph, Taschereau, Quebec, Canada. Hide structure. 1,731,144; Oct. 8.
- Lord, Lyle C., Cincinnati, Ohio. Dog biscuit. Des. 77,616; Jan. 29.
- Lorentz, Adam C. (See Davies, H. K., and Lorentz.)
- Lorentzen, Hans K., New York, N. Y. Receptacle closure. 1,697,074; Jan. 1.
- Lorentzen, Hans K., New York, N. Y. Vending machine. 1,711,271; Apr. 30.
- Lorenz, C., Aktiengesellschaft. (See Gerth, F., and Schumacher, assignors.)
- Lorenz, C., Aktiengesellschaft. (See Korthäuer, Theodor, assignor.)
- Lorenz, C., Aktiengesellschaft. (See Scheller, Otto, assignor.)
- Lorenz, C., Aktiengesellschaft. (See Schepmann, Wilhelm, assignor.)
- Lorenz, C., Aktiengesellschaft. (See Schmidt, Karl, assignor.)
- Lorenz, C., Aktiengesellschaft. (See Schmidt, K., and Hahnemann, assignors.)
- Lorenz, C., Aktiengesellschaft. (See Vopel, Johannes, assignor.)
- Lorenz, C., Aktiengesellschaft. (See v. Wysocki, Bronislaw, assignor.)
- Lorenz, Charles F., East Orange, N. J., assignor to Westinghouse Lamp Company. Refractory article. 1,704,256; Mar. 5.
- Lorenz, Edward H., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Helical differential. 1,708,022; Apr. 9.
- Lorenz, Edward H., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Ware transferring device. 1,715,204; May 28.
- Lorenz, Edward H., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for handling glassware. 1,733,547; Oct. 29.
- Lorenz, Edward H., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Adjustable cam mechanism for glass-feeding mechanism. 1,737,165; Nov. 26.
- Lorenz, Edward H., West Hartford, assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Glass-shaping machine. 1,740,310; Dec. 17.
- Lorenz, Frank D. (See Morin, P., and Lorenz.)
- Lorenz, Herbert N., and L. L. Lorenz, Woodhaven, N. Y. Meat-cutting machine. 1,732,521; Oct. 22.
- Lorenz, Lucas L. (See Lorenz, Herbert N. and L. L.)
- Lorenz, William A., West Hartford, assignor to The Otaka Fabric Company, Hartford, Conn. Apparatus for moistening paper. 1,698,818; Jan. 15.
- Lorenz, William A., West Hartford, assignor to The Otaka Fabric Company, Hartford, Conn. Machine for making elastic paper. 1,701,685; Feb. 12.
- Lorenz, William A., West Hartford, assignor to The Otaka Fabric Company, Hartford, Conn. Paper-crinkling machine. 1,702,166; Feb. 12.
- Lorenz, William A., West Hartford, assignor to The Otaka Fabric Company, Hartford, Conn. Paper-drying machine. 1,702,907; Feb. 19.
- Lorenz-Zeiss-Zugsicherungs G. m. b. H. (See Bäseler, Wolfgang, assignor.)
- Lorenzen, Christian, Berlin-Neukölln, Germany. Gas turbine. 1,702,264; Feb. 19.
- Lorig, Edwin T., and A. R. McArthur, Gary, Ind., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Feeding mechanism. 1,706,533; Mar. 26.
- Lorig, Robert A., assignor to Burgess Battery Company, Madison, Wis. Battery cabinet. Des. 77,422; Jan. 8.
- Lorimer, George W., Troy, Ohio, assignor to Black Products Company, Chicago, Ill. Recoil pad. 1,729,514; Sept. 24.
- Lorimer, John W., Oakland, Calif. Flywheel-braking apparatus. 1,710,425; Apr. 23.
- Lorino, Mike R., Birmingham, Ala. Furnace-roof construction. 1,730,667; Oct. 8.
- Lormor, Henry W., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Counter-balanced cover. 1,721,308; July 16.
- Lorrain, Camille V. (See Joyce, B. P., and Lorrain.)
- Lorraine, David G. (See Crowell, A. B., and Lorraine.)
- Lorraine, David G. (See Leonard, Roy E., assignor.)
- Lorraine Manufacturing Company. (See Ballou, Eugene H., assignor.)
- Losack, John M., Orchard, Tex. Charge former for internal-combustion engines. 1,724,097; Aug. 13.
- Los Angeles Spring Bed Company. (See Gail, Charles H., assignor.)
- Los Angeles Spring Bed Company. (See Lofman, Charles, assignor.)
- Lösel, Franz, Brunn, Czechoslovakia. Steam-generating installation. 1,736,411; Nov. 19.
- Losey, Arthur S., assignor to The Russell Manufacturing Company, Middletown, Conn. Baby holder. 1,697,363; Jan. 1.
- Losey, Arthur S., assignor to The Russell Manufacturing Company, Middletown, Conn. Fabric. 1,715,006; May 28.
- Losey, John B., and W. R. Stone, Syracuse, N. Y. Manufacture of rubber composition flooring. 1,703,312; Feb. 26.
- Losh, George E., Merrick, N. Y. Organ mechanism. 1,723,287; Aug. 6.
- Loshbough, James E., Elkhart, Ind. Nonrepeat mechanism for power presses. 1,710,705; Apr. 30.
- Loshbough, Lyle C., Chicago, Ill. Heating device. 1,708,509; Apr. 9.
- Lossing, Elmer W., Toronto, Ontario, Canada. Apparatus for vinegar making. 1,722,352; July 30.
- Lössl, Carl, Gauting, near Munich, Germany. Traverse sleeper of armored concrete. 1,699,197; Jan. 15.
- Loth, W. J., Stove Company, The. (See Cuffe, Frederick W., assignor.)
- Loth, William A., Paris, France. Apparatus for producing variations of pressure. 1,739,600; Dec. 17.
- Lothrop, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Tube shears. 1,715,138; May 28.
- Lotter, Adolph G., assignor to H. C. Miller Company, Milwaukee, Wis. Sheet inserter. 1,704,862; Mar. 12.
- Lotter, Adolph G., assignor to H. C. Miller Company, Milwaukee, Wis. Ring binder. 1,724,407; Aug. 13.
- Lotter, Adolph G., assignor to H. C. Miller Co., Milwaukee, Wis. Unit for holding the leaves in a visible record system. 1,727,348; Sept. 10.
- Lotter, Adolph G., assignor, by mesne assignments, to Stationers' Loose Leaf Company, Milwaukee, Wis. Loose-leaf binder. 1,727,511; Sept. 10.
- Lotter, Adolph G., assignor to H. C. Miller Company, Milwaukee, Wis. Loose-leaf binder. 1,733,305; Dec. 3.
- Lotter, Carolina, et al. (See Miller, Henry C., assignor.)
- Lotti, Mossimo, North Milwaukee, Wis. Combination lamp and smoker's stand. Des. 77,700; Feb. 12.
- Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Co., Chicago, Ill. Switch. 1,716,646; June 11.
- Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Co., Chicago, Ill. Oil switch. 1,720,844; July 16.
- Lotz, Henry J., McKenna, Wash. Concrete grave box. 1,706,671; Mar. 26.
- Lotz, Leonard C., Newark, N. J. Sign. 1,734,736; Nov. 5.
- Lotz, Mathew, Perth Amboy, N. J. Acid cock. 1,714,606; May 28.
- Loucks, James F., assignor to Holorib Incorporated, Cleveland, Ohio. Building construction. 1,699,074; Jan. 15.
- Loucks, James F., assignor to Holorib, Inc., Cleveland, Ohio. Clamping device. 1,714,681; May 28.
- Loucks, James F., assignor to Holorib, Incorporated, Cleveland, Ohio. Sheet-metal foundation for building construction. 1,714,682; May 28.



- Loud, George A., assignor to Loud Slide Valve Engine Co., Fitchburg, Mass. Internal-combustion engine. 1,719,514; July 2.
- Loud Slide Valve Engine Co. (See Loud, George A., assignor.)
- Louden Machinery Company, The. (See Louden, W., and Neller, assignors.)
- Louden, William, and A. H. Neller, assignors to The Louden Machinery Company, Fairfield, Iowa. Animal stall. 1,699,333; Jan. 15.
- Loudenbeck, Harry C., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Gasket and process of treating. 1,714,033; May 21.
- Louderback, George B., Compton, Calif. Drilling bit. 1,727,655; Sept. 10.
- Loudy, Flavius E., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Airplane. 1,720,421; July 9.
- Loudy, Flavius E., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Airplane generator mount. 1,733,891; Oct. 29.
- Loufek, Charles W., Cedar Rapids, Iowa, assignor to The Corno Mills Company, East St. Louis, Ill. Capping machine. 1,696,961; Jan. 1.
- Lougee, Norman A., Schenectady, N. Y., assignor to General Electric Company. Lightning arrester. 1,723,872; Aug. 6.
- Loughead, Malcolm, assignor to Hydraulic Brake Company, Detroit, Mich. Fluid-operated brake system. 1,703,313; Feb. 26.
- Loughead, Malcolm, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Nonsquealing brake. 1,717,393; June 18.
- Loughead, Malcolm, Detroit, Mich., assignor, by mesne assignments, to Hydraulic Brake Company, Los Angeles, Calif. Hose and fitting. 1,725,286; Aug. 20.
- Loughead, Malcolm, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Fluid-operated brake. 1,732,309; Oct. 22.
- Loughead, Malcolm, Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Braking apparatus. 1,738,750; Dec. 10.
- Loughead, Malcolm, and E. F. Loweke, assignors to Hydraulic Brake Company, Detroit, Mich. Pressure mechanism for braking systems. 1,707,063; Mar. 26.
- Loughead, Malcolm, and D. O. Scott, assignors to Hydraulic Brake Company, Detroit, Mich. Method and apparatus for constructing nonexpansible hose. 1,721,253; July 16.
- Loughead, Oscar L., Racine, Wis. Vacuum feed device. 1,702,265; Feb. 19.
- Lougheed, Overend J. W., Portland, Oreg. Welding band saws. 1,718,746; June 25.
- Loughlin, William D., Boonton, N. J. Radio signaling circuit. 1,736,268; Nov. 19.
- Loughren, Arthur V., Schenectady, N. Y., assignor to General Electric Company. Alternating-current amplifier. 1,699,110; Jan. 15.
- Loughridge, Matthew H., Bogota, N. J. Selective apparatus. 1,724,210; Aug. 13.
- Lougovoy, Boris N., assignor to Ellis-Foster Company, Montclair, N. J. Reducing the viscosity of cellulose esters. 1,726,357; Aug. 27.
- Louis, Martin, Kiel, assignor to Fried. Krupp Germania-werft Aktiengesellschaft, Kiel-Gaarden, Germany. Two-stroke internal-combustion engine. 1,712,963; May 14.
- Louis, Terrence G., Springfield, assignor to Wico Electric Company, West Springfield, Mass. Distributor. 1,722,703; July 30.
- Louis, Terrence G., Springfield, assignor to Wico Electric Company, West Springfield, Mass. Breaker-point mechanism. 1,740,515; Dec. 24.
- Louisiana State Rice Milling Company. (See MacMillan, William B., assignor.)
- Louisville Frog, Switch & Signal Company. (See Delmanhorst, Herman F., assignor.)
- Louisville Frog, Switch & Signal Company. (See Zehnder, Louis R., assignor.)
- Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Buffing mechanism. 1,699,795; Jan. 22.
- Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,700,229; Jan. 29.
- Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,703,277; Feb. 26.
- Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake for railway cars. 1,703,314; Feb. 26.
- Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism for vehicles. 1,730,223; Oct. 1.
- Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Yoke. 1,730,855; Oct. 8.
- Louos, Martin, Kiel, assignor to Fried. Krupp Germania-werft Aktiengesellschaft, Kiel-Gaarden, Germany. Diesel engine. 1,698,161; Jan. 8.
- Louthan, Edward. (See Daniel, J. E. B., and Louthan.)
- Louthan Manufacturing Co. (See Louthan, William B., assignor.)
- Louthan, William B., assignor to The Louthan Manufacturing Co., East Liverpool, Ohio. Fire rack for chinaware. 1,739,037; Dec. 10.
- Louviaux, Alfred E., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Handling device. 1,729,114; Sept. 24.
- Love, Andrew, Paddington, New South Wales, Australia. Shoe fastening. 1,741,640; Dec. 31.
- Love, George S., assignor of one-half to T. Mullender, San Francisco, Calif. Shoe-stretching device. 1,734,014; Oct. 29.
- Love, John F. (See Bell, F. A., and Love.)
- Love, Joseph E., Schenectady, N. Y., assignor to General Electric Company. Generator voltage regulator. 1,714,883; May 28.
- Love, Martin J., Ashland, Oreg. Radio receiving apparatus. 1,708,767; Apr. 9.
- Love, Merlin C., Phoenix, Ariz. Vaporizer. 1,728,421; Sept. 17.
- Love, Michael, Pittsburgh, Pa. Dust trap. 1,739,367; Dec. 10.
- Lovegrove, Francis A., Halifax, Nova Scotia, Canada. Printing machine for spheres and the like. 1,728,351; Sept. 17.
- Lovejoy Development Corporation. (See Lovejoy, Dimmitt R., assignor.)
- Lovejoy, Dimmitt R., New York, N. Y. Time recorder for locks. 1,710,228; Apr. 23.
- Lovejoy, Dimmitt R., deceased, Freneau, N. J.; S. L. Neidlinger, executrix. Marking device for recording apparatus. 1,720,226; July 9.
- Lovejoy, Dimmitt R., assignor to Lovejoy Development Corporation, New York, N. Y. Tuned radio receiving circuits. 1,723,566; Aug. 6.
- Lovejoy, Dimmitt R., assignor to Lovejoy Development Corporation, New York, N. Y. Radio receiving circuit. 1,725,360; Aug. 20.
- Lovejoy, Dimmitt R., assignor to Lovejoy Development Corporation, New York, N. Y. Indicator for radio devices. 1,729,046; Sept. 24.
- Lovejoy, Dimmitt R., assignor to Lovejoy Development Corporation, New York, N. Y. Variable rotary condenser. 1,729,726; Oct. 1.
- Lovejoy, Dimmitt R., assignor to U. S. E. M. Company, New York, N. Y. Contact-making gauge. 1,737,973; Dec. 3.
- Lovejoy, Ralph M., Boston, Mass. Shock absorber. 1,698,640; Jan. 8.
- Lovejoy, Ralph M., Boston, assignor to Lewis-Shepard Company, Watertown, Mass. Transporting mechanism for hoisting machines. 1,702,698; Feb. 19.
- Lovekin, Luther D., New York, N. Y. Rail anchor. 1,708,510; Apr. 9.
- Lovekin, Luther D., Lynnewood, Pa. Emergency plug-shut-off valve. 1,712,116; May 7.
- Lovekin, Luther D., Ardmore, Pa. Emergency water-operated shut-off valve. 1,723,567; Aug. 6.
- Lovekin Water Heater Company. (See Fowler, Philip D., assignor.)
- Lovelace, Edgar S. M., Westmount, Quebec, Canada. Topography level and transit. 1,740,255; Dec. 17.
- Loveland, S. C. (See Kirkbride, Edmund, assignor.)
- Lovell, Harold T., New Castle, Pa. Automobile ventilator. 1,733,025; Oct. 22.
- Lovell, James W., Astoria, Oreg. Net-hauling device. 1,727,071; Sept. 3.
- Lovell Manufacturing Company. (See Gehrlein, Vincent, assignor.)
- Lovell Manufacturing Company. (See Godfrey, Earl V., assignor.)
- Lovell Manufacturing Company. (See Schuda, Ernest J., assignor.)
- Lovell, Stanley P., Brockton, Mass., assignor, by mesne assignments, to The Celastec Corporation, Wilmington, Del. Manufacture of boots and shoes. 1,711,956; May 7.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Fixture for holding ring gears and the like. 1,708,228; Apr. 9.
- Loven, Carl, Portland, Oreg. Sock. 1,726,441; Aug. 27.
- Loveridge, Benjamin C., Detroit, Mich. Pipe-bending tool. 1,712,573; May 14.
- Lovering, Everett W. (See Richter, G. A., and Lovering.)
- Lovering, Reuben W., Los Angeles, Calif. Time-controlled apparatus. 1,705,985; Mar. 19.
- Lovett, Howard W., Midlothian, Tex. Hobble for cultivators. 1,731,631; Oct. 15.
- Lovett, James A. B. (See Collins, C. B., and Lovett.)
- Lovett, John T., Jr., Little Silver, N. J. Potted-plant seal. 1,698,021; Jan. 8.
- Lovett, John T., Jr., Little Silver, N. J. Plant-ball package. 1,709,860; Apr. 23.
- Lovett, William E., Port Clinton, Ohio, assignor to United States Gypsum Company, Chicago, Ill. Method of and machine for making plaster board. 1,733,741; Oct. 29.
- Low, David W., Los Angeles, Calif. Cooling device. 1,711,957; May 7.
- Löw, Eduard, Mainz-Mombach, assignor to Veresin für Chemische Industrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of concentrated acetate liquors from acetic-acid-containing gases. 1,726,401; Aug. 27.
- Low, Frank S., Niagara Falls, N. Y. Tanning. 1,723,568; Aug. 6.



- Low, Frank S., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Chrome-green pigment and its manufacture. 1,738,780; Dec. 10.
- Low, James F., Toronto, Ontario, Canada. Pulp-suction die. 1,714,916; May 28.
- Low, James F., Toronto, Ontario, Canada. Machine for manufacturing pulp articles. 1,717,988; June 18.
- Lowance, C. T., et al. (See Lowance, Samuel A., assignor.)
- Lowance, Samuel A., Rhame, assignor of one-fourth to C. T. Lowance, one-fourth to T. G. Rogers, and one-fourth to J. M. Scott, Decatur, Tex. Portable automatically-operated opening and closing gate. 1,713,235; May 14.
- Lowder, John W., Badin, N. C. Dispensing refrigerator for bottled beverages. 1,710,830; Apr. 30.
- Lowder, Vander B., assignor of one-half to A. G. Odell, Concord, N. C. Napping-machine stop. 1,703,774; Feb. 26.
- Lowe, Earl R., assignor of one-fourth to T. A. Lowe and one-fourth to F. Schroeder, South St. Paul, and one-fourth to A. Highland, St. Paul, Minn. Butcher's glove. 1,736,928; Nov. 26.
- Lowe, Ernest A., Plainfield, N. J., assignor, by mesne assignments, to Automatic Sprinkler Company of America, New York, N. Y. Automatic extinguishing apparatus. 1,718,698; June 25.
- Lowe, Ernest A., and J. R. Hamilton, Cleveland Heights, assignors to Automatic Sprinkler Company of America, Cleveland, Ohio. Automatic thermal signal accelerator for fire-extinguishing systems. 1,738,656; Dec. 10.
- Lowe, James E., Miami, Fla. Airplane safety device. 1,714,084; May 21.
- Lowe, Joseph N. (See Grossman, M. L., and Lowe.)
- Lowe, Joseph N., New York, N. Y. Hand bag. 1,734,587; Nov. 5.
- Lowe, Joseph N., assignor to The Daisy Products, Inc., New York, N. Y. Hand bag. 1,701,953; Feb. 12.
- Lowe, Joseph N., assignor to The Daisy Products, Inc., New York, N. Y. Hand bag. 1,701,954; Feb. 12.
- Lowe-Lile, Tennie, Raymondville, Tex. Cooker. 1,712,926; May 14.
- Lowe Machinery Company, The. (See Lowe, Thomas L., assignor.)
- Lowe, Percival D. (See Willoughby, J. A., and Lowe.)
- Lowe, Russell E. (See Fink, C. G., and Lowe.)
- Lowe, Russell E., New York, N. Y., assignor to Doherty Research Company, New York, N. Y. Porous refractory diaphragm. 1,731,053; Oct. 8.
- Lowe, Sherwin P., assignor to R. H. Channing, agent, Denver, Colo. Flotation concentration. 1,728,352; Sept. 17.
- Lowe, Sherwin P., assignor to R. H. Channing, agent, Denver, Colo. Flotation process. 1,728,353; Sept. 17.
- Lowe, Sherwin P., and H. T. Koenig, Denver, Colo., assignors to R. H. Channing, jr., agent, San Francisco, Calif. Flotation process. 1,741,030; Dec. 24.
- Lowe, Thomas A., et al. (See Lowe, Earl R., assignor.)
- Lowe, Thomas A., Devon, Conn., assignor to The Lowe Machinery Company, Bridgeport, Conn. Laundry receiving and distributing machine. 1,708,948; Apr. 16.
- Lowe, Thomas W., Winnipeg, Manitoba, Canada. Tube and sheet connection. 1,701,268; Feb. 5.
- Lowe, Walter L. (See Klemish, L. E., and Lowe.)
- Lowe, William, Ansonia, assignor to The American Brass Company, Waterbury, Conn. Machine for twisting metal strips. 1,740,612; Dec. 24.
- Lowe, William S., Lawrence, Kans. Egg-shipping package. 1,708,890; Apr. 9.
- Loweke, Erwin F. (See Loughead, M., and Loweke.)
- Lowell, Glenn P. (See Byrne, L., and Lowell.)
- Lowell-Wintsch Automatic Train Control Corp., The. (See Wintsch, Max T., assignor.)
- Lowenstein-Sandler & Siegel, Inc., et al. (See Sandler, Joseph L., assignor.)
- Lowenthal, Harry N., assignor to Beaumont Manufacturing Company, Philadelphia, Pa. Gate for ash hoppers. 1,706,797; Mar. 26.
- Lower, Mary E., Williamsburg, Pa. Canning corn. 1,741,724; Dec. 31.
- Lower, Melvin S., Barberton, Ohio, assignor, by mesne assignments, to M. A. Myers, Scranton, Pa. Bulb for syringes. 1,728,161; Sept. 10.
- Lower, Melvin S., assignor to The Sun Rubber Company, Barberton, Ohio. Sponge cup. 1,741,783; Dec. 31.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Coal moistener for stokers. 1,698,810; Jan. 8.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Coal moistener for stokers. 1,698,811; Jan. 8.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Self-cleaning tank. 1,702,908; Feb. 19.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Locomotive and stoker therefor. 1,707,676; Apr. 2.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y. Locomotive stoker. 1,717,989; June 18.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y. Locomotive stoker. 1,718,054; June 18.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Locomotive boiler-feed apparatus. 1,709,533; Apr. 16.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Rotary engine. 1,729,951; Oct. 1.
- Lower, Nathan M., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Locomotive stoker. 1,738,379; Dec. 3.
- Lower, Nathan M., and P. A. Ketchpel, Pittsburgh, Pa., assignors, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Stoker mechanism. 1,730,616; Oct. 8.
- Lower, Nathan M., W. H. Steele, and L. P. Morris, Pittsburgh, Pa. Centrifugal casting machine. 1,699,848; Jan. 22.
- Lower, Nathan M., and E. A. Turner, Pittsburgh, Pa., assignors by mesne assignments to The Standard Stoker Company, Inc., New York, N. Y. Locomotive and stoker therefor. 1,718,053; June 18.
- Lowery, Louis H., and J. Kramer, assignors to Pullman Couch Company, Chicago, Ill. Cushion-stuffing machine. 1,740,865; Dec. 24.
- Lowery, Theodore J., Washington, D. C. Belt buckle. 1,729,952; Oct. 1.
- Lownsberry, Harry R., Elmira, N. Y. Weaving machine. 1,728,497; Sept. 17.
- Lowrey, Monroe C., Poteau, Okla. Combined mop and wringer. 1,733,418; Oct. 29.
- Lowry, Charles A. L., and W. J. Watling, assignors to The H. M. Kipp Co. Limited, Toronto, Ontario, Canada. Cascade amplifier using transformer coupling between thermionic vacuum tubes. 1,697,923; Jan. 8.
- Lowry, Clara F., Dassel, Minn. Bookholder and table. 1,739,643; Dec. 17.
- Lowry, George A., assignor to Fabrocord Incorporated, trustee, New York, N. Y. Method of and machine for cleaning flax, hemp, and other fibers. 1,716,589; June 11.
- Lowry, Homer H., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical insulation. 1,714,683; May 28.
- Lowry, Homer H., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Preparation of granular carbon. 1,722,055; July 23.
- Lowry, Julius C., Detroit, Mich. Lighting fixture. Des. 78,215; Apr. 9.
- Lowry, Nelson H., and L. F. Megaw, Chicago, Ill. Medical electrode. 1,713,970; May 21.
- Lowry, Nelson H., and L. F. Megaw, Chicago, Ill. Method of and apparatus for dental sterilization. 1,713,971; May 21.
- Lowry, Samuel D., assignor to Automatic Pencil Vending Machine Corporation, Houston, Tex. Pencil-vending machine. 1,742,039; Dec. 31.
- Lowry, William R., Indianapolis, Ind. Glove-turning machine. 1,735,688; Nov. 12.
- Lowther, Leonard W., Audubon, N. J., assignor to Horn & Hardart Baking Co., Philadelphia, Pa. Leveling mechanism. 1,719,435; July 2.
- Lowther, Leonard W., Audubon, N. J., assignor to Horn & Hardart Baking Company. Controlling mechanism for revolving doors. 1,752,902; Oct. 22.
- Lowy, Adolph, New York, N. Y. Automobile trunk. 1,723,652; Aug. 6.
- Lowy, Alexander, Pittsburgh, Pa. Disinfecting and apparatus therefor. 1,719,185; July 2.
- Lowy, Alexander, Pittsburgh, Pa. Garbage can and preventing development of maggots therein. 1,719,186; July 2.
- Lowy, Alexander, Pittsburgh, Pa. Bottle closure. 1,725,092; Aug. 20.
- Lowy, Leo, New York, N. Y. Bed-frame connection. 1,707,230; Apr. 2.
- Lowy, Louis, New York, N. Y., assignor of one-half to I. Grossgold. Automatic plaster-supplying device. 1,716,817; June 4.
- Löwy, Ludwig, Dusseldorf, Germany. Rolling mill. 1,730,012; Oct. 1.
- Löwy, Ludwig, Dusseldorf, Germany. Roller conveyer. 1,733,379; Oct. 29.
- Lowy, Richard, San Francisco, Calif. Tag. 1,723,873; Aug. 6.
- Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)
- Loxley, Walter M., assignor of one-half to G. B. McCann, Dayton, Ohio. 1,709,137; Apr. 16.
- Loyd, Robert W., and B. W. Moye, Metaline Falls, Wash. Separating metallic ores. 1,727,472; Sept. 10.
- Lozai, Amable, and A. Lerciu, Petite Gueville, France. Coal breaker. 1,700,266; Jan. 29.
- Lozoff, Israel, assignor of one-half to Grecha Markovitch, Montreal, Quebec, Canada. Flint lighter. 1,704,091; Mar. 5.
- Luard, William B. (See Addison, H., and Luard.)
- Lubberger, Fritz, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,729,852; Oct. 1.



- Lubberger, Fritz, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Wernerkwerk, Siemensstadt, near Berlin, Germany. Alternate trunking director system. 1,729,855; Oct. 1.
- Lubé, Henry, College Point, N. Y. Projecting machine. 1,703,891; Mar. 5.
- Luber, Michael H., Cedar Rapids, Iowa. Merchandise-display stand. 1,719,708; July 2.
- Lubich, Max, Ebersbach-on-the-Fils, Germany, assignor to the firm L. Schuler A.-G., Goppingen, Wurttemberg, Germany. Eccentric press. 1,733,162; Oct. 29.
- Lubrano, Giuseppe, assignor to Curly Macaroni Mould Co., Incorporated, Brooklyn, N. Y. Macaroni mold. 1,736,611; Nov. 19.
- Luby, Henry E., Johnson City, N. Y. Shoe stiffener. 1,733,811; Oct. 29.
- Lucan, William H., Palmyra, Mo., assignor of one-half to R. M. Wagner, Quincy, Ill. Cream aerator. 1,697,729; Jan. 1.
- Lucarelle, Joseph M., assignor to Dictaphone Corporation, Bridgeport, Conn. Correction device. 1,740,468; Dec. 24.
- Lucarelle, Joseph M., Bridgeport, and J. E. Renholdt, Stratford, assignors to Dictaphone Corporation, Bridgeport, Conn. Phonograph and controlling the same. 1,726,574; Sept. 3.
- Lucarelle, Joseph M., and V. L. Frykman, assignors to Dictaphone Corporation, Bridgeport, Conn. Record-resurfacing machine. 1,723,569; Aug. 6.
- Lucas, Anthony F. G., and E. E. Clement, Washington, D. C.; said Clement, assignor to said Lucas. Lubricator. 1,702,446; Feb. 19.
- Lucas, Anthony F. G., and E. E. Clement, Washington, D. C.; said Clement assignor to said Lucas. Lubricator. 1,702,477; Feb. 19.
- Lucas, Daniel W., Atlanta, Ga. Railroad-crossing signal. 1,735,647; Nov. 12.
- Lucas, John, assignor to Lewis Foundry & Machine Company, Pittsburgh, Pa. Ax and pick machine. 1,708,391; Apr. 9.
- Lucas, John F., Pierce City, Mo. Collapsible rumble-seat canopy. 1,727,438; Sept. 10.
- Lucas, John H., assignor to The Milwaukee Electric Railway & Light Company, Milwaukee, Wis. Car-seat-reversing mechanism. 1,741,784; Dec. 31.
- Lucas, Jonathan, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y. Mechanism for controlling the warp-yarn supply on weaving machines. 1,737,600; Dec. 3.
- Lucas-Lamborn Loom Corporation. (See Lucas, Jonathan, assignor.)
- Lucas, Owen D., Westminster, London, assignor to Vickers Limited, Westminster, England. Treatment of flax. 1,733,742; Oct. 29.
- Lucas, Owen D., assignor to Vickers Limited, Westminster, England. Treatment of fibrous vegetable materials. 1,739,683; Dec. 17.
- Lucas, William B., Oak Park, Ill., assignor to Otis Elevator Company, New York, N. Y. Radioaerial. 1,721,702; July 23.
- Luce Cane Harvester Corporation. (See Luce, George D., assignor.)
- Luce Cane Harvester Corporation. (See Wilkes, F. C. D., and Flynn, assignors.)
- Luce, George D., Watertown, Wis., assignor to Luce Cane Harvester Corporation, New York, N. Y. Cane harvester. 1,714,272; May 21.
- Luce, Grafton E., Chicago, Ill. Brick lifter. 1,710,096; Apr. 23.
- Luce, Grafton E., Chicago, Ill. Kiln-bracing construction. 1,732,239; Oct. 22.
- Luce, Grafton E., Chicago, Ill., assignor to Lancaster Iron Works, Inc., Lancaster, Pa. Brick lifter. 1,709,138; Apr. 16.
- Luce, Grafton E., Chicago, Ill., assignor to Lancaster Iron Works, Inc., Lancaster, Pa. Brick-cutter-synchronizing control. 1,732,238; Oct. 22.
- Luce, Grafton E., New London, Ohio, assignor to Lancaster Iron Works, Inc., Lancaster, Pa. Brick-setting machine. 1,712,773; May 14.
- Luce-Mattson Engine Co. (See Mattson, Leroy, assignor.)
- Luce, Robert B., assignor to Continental Rubber Works, Erie, Pa. Tire patch and making same. 1,701,625; Feb. 12.
- Luce, Wilhelm. (See Hoffa, E., and Luce.)
- Lucey Manufacturing Corporation. (See Harris, Hu M., assignor.)
- Luchsinger, Bernardo. (See Neveu, Gustavo, assignor.)
- Luich, Petar J., New York, N. Y. Flying machine. 1,728,557; Sept. 17.
- Luck, Charles M., Richmond, Va. Dumping vehicle. 1,715,934; June 4.
- Luck, Charles M., Richmond, Va. Tractor trailer. 1,724,489; Aug. 13.
- Luck, Charles M., Richmond, Va. Tractor trailer. 1,736,450; Nov. 19.
- Luck, John. (See Wood, F. J., and Luck.)
- Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Oil-pumping system. 1,697,605; Jan. 1.
- Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condensing apparatus. 1,704,484; Mar. 5.
- Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam condenser. 1,733,996; Oct. 29.
- Lucke, Charles E., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Air heater. 1,734,588; Nov. 5.
- Luckenbach, Royer, Brooklyn, N. Y. Flotation oil. 1,722,528; July 30.
- Lucker, Millard B., Benton Harbor, Mich., assignor to Auto Specialties Manufacturing Company, San Francisco, Calif. Double-lift jack. Re17,527; Dec. 17.
- Luckett, Dinwiddie J., Davenport, Iowa. Endless track for track-laying vehicles. 1,697,874; Jan. 8.
- Luckett, Philip A., Norwalk, Conn. Sleeping garment. 1,740,028; Dec. 17.
- Luckey, George P., Dayton, Ohio. Cloud or fog sounding device. 1,730,080; Oct. 1.
- Luczak, Wladyslaw, Jersey City, N. J. Time switch. 1,710,367; Apr. 23.
- Lüdecke, Karl and N., Berlin-Dahlem, Germany. Production of glycerin. 1,698,800; Jan. 15.
- Lüdecke, Nelly. (See Lüdecke, Karl and N.)
- Ludeman, Edwin H. (See Ludeman, Oscar H., assignor.)
- Ludeman, Oscar H., Glen Ridge, N. J., assignor of one-half to E. H. Ludeman, Brooklyn, N. Y. Boiler-controlling device. 1,717,394; June 18.
- Luden, Wm. H., Inc. (See Weber, Walter S., assignor.)
- Ludlow, George M., Evanston, assignor to Sanitary Scale Company, Chicago, Ill. Weighing-scale translating mechanism. 1,708,275; Apr. 9.
- Ludlow Manufacturing Company, The. (See Hake, Elmer C., assignor.)
- Ludlum Steel Company. (See Armstrong, Percy A. E., assignor.)
- Ludlum Steel Company. (See Batcheller, H. G., and Kelley, assignors.)
- Ludlum Steel Company. (See De Fries, Henry A., assignor.)
- Ludlum Steel Company. (See De Vries, R. P., and De Fries, assignors.)
- Ludwick, Walter N., Harrison, Idaho. Damper regulator. 1,720,522; July 9.
- Ludwig, Abraham, Detroit, Mich. Bathroom fixture. Des. 79,092; July 30.
- Ludwig, Ferdinand, Witkowitz, Czechoslovakia. Automatic copyholder for adding machines. 1,720,282; July 9.
- Ludwig, James E., Port Huron, Mich. Hydraulic lifting jack. 1,734,816; Nov. 5.
- Ludwig, Louis, Brooklyn, N. Y. Tobacco-ash receiver. Des. 79,930; Nov. 19.
- Ludwig, Louis, Brooklyn, N. Y. Electric wire tap. 1,709,357; Apr. 16.
- Ludwig, Louis, Brooklyn, N. Y. Socket for electric lamps. 1,733,743; Oct. 29.
- Ludwig, Louis, Brooklyn, N. Y. Protector for radio sets. 1,736,204; Nov. 19.
- Ludwig, Nicholas M., Racine, Wis. Miter box for corner beads and the like. 1,718,791; June 25.
- Ludwig, Walter M., Melrose, Mass. Appliance for reinforcing and restoring arches of the feet. 1,717,609; June 18.
- Lueck, Walter L., Clintonville, Wis. Steering gear. 1,704,863; Mar. 12.
- Lueders, Edwin W., Wauwatosa, Wis. Oil-supply system for oil burners. 1,711,272; Apr. 30.
- Luedicke, Alex H. (See Kelly, F. W., and Luedicke.)
- Luedtke, Max A. G., Weehawken, N. J., and H. Hoffmann, New York, N. Y. Marking, printing, and embossing device. 1,714,794; May 28.
- Luedtke, Max A. G., Weehawken, N. J., and H. Hoffmann, New York, N. Y. Embossing machine. 1,714,795; May 28.
- Luedtke, Max A. G., Weehawken, N. J., and H. Hoffmann, New York, N. Y. Marking, printing, and embossing device. 1,726,575; Sept. 3.
- Luer, August J., Alton, Ill. Combination heater and mixer. 1,741,160; Dec. 31.
- Luers, John M., Detroit, Mich. Tool holder and blade therefor. 1,701,980; Feb. 12.
- Luers, John M., Detroit, Mich. Blade. 1,733,912; Dec. 10.
- Luery, Michael, Chicago, Ill. Storage receptacle. 1,729,953; Oct. 1.
- Luery, Michael, Chicago, Ill. Baby swing. 1,740,949; Dec. 24.
- Luff, Willard J., Cleveland, Ohio. Plumbing system. 1,700,230; Jan. 29.
- Lufkin, John L., assignor to The Engineering Products Corporation, Inc., New York, N. Y. Hack-saw frame. 1,713,972; May 21.
- Lufkin, John L., assignor to The Engineering Products Corporation, Inc., New York, N. Y. Manhole guard. 1,741,323; Dec. 31.
- Lufkin Rule Co. (See Witchger, Eugene J., assignor.)
- Luftig, Morris, Oak Park, Ill. Belt for personal wear. 1,738,107; Dec. 3.
- Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Brunner, Eugen, assignor.)
- Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Eckener, Hugo, assignor.)
- Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Schnitzer, Beno, assignor.)
- Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Schnitzer, B. and Dörr, assignors.)
- Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Stahl, Karl, assignor.)



- Luftschiffbau Zeppelin G. m. b. H. (See Strobl, Hans, assignor.)
- Luftschiffbau Zeppelin, Gesellschaft mit beschränkter Haftung. (See Trenckmann, Erich and B., assignors.)
- Luginbuhl, Godefroy R., Lausanne, Switzerland. Railway guide. Re17,486; Nov. 12.
- Lugo, Joseph M. (See Fernald, Charles F., assignor.)
- Lugin, Frank G., Moose Jaw, Saskatchewan, Canada. Coal pulverizer. 1,737,931; Dec. 3.
- Lugt, Gerard J., assignor to Naamlooze Vennootschap Nederlandsche Fabriek van Werktuigen en Spoorwegmaterieel Genaamd "Werkspoor," Amsterdam, Netherlands. Double-acting motor. 1,739,644; Dec. 17.
- Luhn, Hans P., New York, N. Y. Raincoat. 1,710,778; Apr. 30.
- Luhr, Charles W., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Machine for shaving sound record tablets. 1,721,913; July 23.
- Luhr, Otto, Chicago, Ill. Automatic refrigerating-liquid feeder and regulator. 1,725,875; Aug. 27.
- Luikart, Roy E. (See Chilson, R. W., Bacon, and Luikart.)
- Lukachovic, Joseph C., Dunellen, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Bucket-operating mechanism for concrete distributors. 1,738,012; Dec. 3.
- Luke, Frederick D. (See Ducker, W., and Luke.)
- Luke, Roscoe. (See Clark, Andrew B., assignor.)
- Lukehart, Glyode E., Garber, Okla. Valve seating and pulling device. 1,736,318; Nov. 19.
- Lukens, Alan R., Wyoming, and J. S. Maynard, Cincinnati, Ohio, assignors, by mesne assignments, to The Flintkote Company, Boston, Mass. Asphalt-surfaced roofing. 1,719,118; July 2.
- Lukens, Hiram S., assignor to Solidon Products, Inc., Philadelphia, Pa. Sorel-cement product and making the same. 1,724,945; Aug. 20.
- Lukens, Hiram S., and R. P. Heuer, Philadelphia, Pa. Removing copper oxide from copper. 1,698,443; Jan. 8.
- Lukens, Hiram S., and R. P. Heuer, Philadelphia, Pa. Freeing copper from copper oxide. 1,730,775; Oct. 8.
- Lukens, Hiram S., and R. P. Heuer, Philadelphia, Pa. Continuous copper-melting furnace. 1,733,419; Oct. 29.
- Lukes, Elmer J., Wagner, S. Dak. Tie. 1,714,386; May 21.
- Lukesh, Fred A., Brooklyn, N. Y. Convertible motor vehicle. 1,722,227; July 23.
- Lukomski, John B., Detroit, Mich. Core box. 1,738,380; Dec. 3.
- Lulek, Ralph N., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vat colors of the 1:9 anthraziazole series. 1,705,023; Mar. 12.
- Lulek, Ralph N., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Intermediate of the 1:9-anthraziazole series. 1,706,981; Mar. 26.
- Lum, George R., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. 1,700,441; Jan. 29.
- Lumby, Lewis, Leeds, assignor to Prince Smith & Son, Limited, Keighley, Yorkshire, England. Spinning and twisting frame. 1,736,656; Nov. 19.
- Luminex Corporation. (See Black, William A., assignor.)
- Lumley, Charles R., assignor to The Derby Company, Seattle, Wash. Lubricating device. 1,706,736; Mar. 26.
- Lumley, Frank E., Chicago, Ill. Switch-controlling device. 1,713,290; May 14.
- Lummerzhelm, Hermann, Dessau-Ziebigk, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Device for measuring the intervals between perforations in regular series thereof. 1,701,048; Feb. 5.
- Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Gas producer. 1,707,811; Apr. 2.
- Lumsden, Edward, et al. (See Cerfvol, Albert, assignor.)
- Lumyuk, John, Honolulu, Hawaii. Paper stripper for multigraphs. 1,715,611; June 4.
- Lund, Alvin B., Claremont, S. Dak. Cow poke. 1,740,256; Dec. 17.
- Lund, Andrew, administrator. (See Lund, Joel.)
- Lund, Arthur A., Susanville, Calif. Lumber-piling bar. 1,698,339; Jan. 8.
- Lund, Carl C. (See Ogden, J. W., Lund, and Wheeler.)
- Lund, Edwin H., assignor of twenty-five per cent to R. E. Crowley, Great Falls, Mont. Safety cut-off for pressure lines of hydraulic brakes. 1,724,881; Aug. 13.
- Lund, Joel, deceased, San Francisco, Calif.: A. Lund, administrator. Bench plane. 1,740,469; Dec. 24.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Transferring device. 1,703,198; Feb. 26.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Randing shoes and trimming the heels thereof. 1,708,973; Apr. 16.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,711,605; May 7.
- Lund, William J. (See Bancroft, W. H., Lund, and Hill.)
- Lund, William J., and L. P. Mellerio, Leicester, England, assignors, by mesne assignments, to The Celastic Corporation, Wilmington, Del. Shoe stiffener and incorporating it in shoes. 1,720,795; July 16.
- Lundahl, Fred A., Moline, Ill. Ladder and adjusting mechanism. 1,711,357; Apr. 30.
- Lundahl, Fred A., Moline, Ill. Ladder and adjusting mechanism. 1,711,358; Apr. 30.
- Lundahl, Frederick A., Moline, Ill. Vehicle toy. 1,723,552; Aug. 6.
- Lundahl, Frederick A., East Moline, Ill. Toy mixing machine. 1,718,911; June 25.
- Lundahl, Frederick A., East Moline, Ill. Velocipede. 1,723,553; Aug. 6.
- Lundberg, Carl A., et al. (See Freese, Claude H., assignor.)
- Lundberg, Gustave E., Kewanee, Ill. Sectional oil-barrel rack. 1,739,403; Dec. 10.
- Lundberg, Henry W. (See Kindel, C. J., and Lundberg.)
- Lundean, Fred H., Bucklin, Mo. Dust scraper for elevating graders. 1,723,048; Aug. 6.
- Lundeen, Ernest F., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Electrolytic rectifier. 1,729,429; Sept. 24.
- Lundelius & Eccleston Motors Corporation. (See Lundelius, O. F., and Leifer, assignors.)
- Lundelius, Oscar F., and M. N. Leifer, Los Angeles, Calif., assignors to Lundelius & Eccleston Motors Corporation, Las Vegas, Nev. Steering mechanism for spring-supported vehicles. 1,737,856; Dec. 3.
- Lundell, Elmer W., assignor to Seyler Manufacturing Company, Pittsburgh, Pa. Insulator supporting bracket. 1,722,672; July 30.
- Lundell, Frederick C., and C. B. Regan, assignors to The Milton Cork Company, Brooklyn, N. Y. Machine for applying seals to cushion inserts. 1,738,781; Dec. 10.
- Lundell, George A. E., deceased, New York, N. Y.; J. D. Lundell, executrix. Electromagnetic relay. 1,711,958; May 7.
- Lundell, Jeannette D., executrix. (See Lundell, George A. E.)
- Lundell, Otto, assignor to Colonial Tool Company, Detroit, Mich. Broach or the like. 1,708,478; Apr. 9.
- Lundell, Otto, assignor to Colonial Tool Company, Detroit, Mich. Broaching tool. 1,713,390; May 14.
- Lundgaard, Ivar, Hartford, Conn., assignor, by mesne assignments, to Devon Manufacturing Company, Boston, Mass. Refrigerator. 1,717,459; June 18.
- Lundgaard, Ivar, Worcester, assignor to Devon Manufacturing Company, Boston, Mass. Refrigerating machine. 1,730,580; Oct. 8.
- Lundgren, Edward A., Providence, R. I., assignor to Revere Rubber Company, Chelsea, Mass. Storage battery. 1,715,935; June 4.
- Lundgren, Edwin, Frederick, Md., assignor to International Combustion Engineering Corporation. Finely-divided-fuel-burning boiler furnace. 1,698,552; Jan. 8.
- Lundgren, Edwin, Frederick, Md., assignor to International Combustion Engineering Corporation, New York, N. Y. Furnace for burning pulverized coal. 1,709,353; Apr. 16.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Furnace. 1,715,139; May 28.
- Lundgren, Edwin, Frederick, Md., assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler furnace. 1,731,428; Oct. 15.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation, New York, N. Y. Steam generation. 1,734,683; Nov. 5.
- Lundgren, Edwin, Frederick, Md., assignor to Combustion Engineering Corporation. Burning finely-divided fuel. 1,736,929; Nov. 26.
- Lundgren, Karl T. R., Lund, Sweden. Apparatus for the precipitation of particles suspended in liquids. 1,730,776; Oct. 8.
- Lundgren, Karl T. R., Lund, Sweden. Centrifugal concentrator. 1,736,792; Nov. 26.
- Lundgren, William E., Auburn, assignor to Commonwealth Finance Corporation, Worcester, Mass. Tension device for automatic loom shuttles. 1,713,706; May 21.
- Lundgren, William E., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread holder for weft replenishing looms. 1,722,930; July 30.
- Lundin, Andreas P., Flushing, N. Y., assignor to Asphalto Concrete Corporation. Making elongated composite units of asphalt and concrete. 1,729,172; Sept. 24.
- Lundsten, Olof. (See Johnson, E. L., and Lundsten.)
- Lundstrom, William C., Spokane, Wash. Automobile bed. 1,728,422; Sept. 17.
- Lundstrom, William C., Spokane, Wash. Automobile dressing room. 1,741,424; Dec. 31.
- Lundy, Beverly A., Larchmont, N. Y. Electrical connectors. 1,726,991; Sept. 3.
- Lundy, Beverly A., Larchmont, N. Y. Trunking support. 1,726,992; Sept. 3.
- Lundy, Fred P., White Plains, N. Y., assignor to National India Rubber Company, Bristol, R. I. Athletic shoe. 1,699,472; Jan. 15.
- Lüneburg, Anton, assignor to Christoph & Unmack Actien-Gesellschaft, Niesky, Germany. Sleeping car with a side passage or corridor. 1,718,699; June 25.
- Lunge, Ernest, assignor to Courtaulds Limited, London, England. Pump and like device for controlling the rate of delivery of fluids. 1,701,239; Feb. 5.
- Lunge, Ernest, assignor to Courtaulds Limited, London, England. Pump and like device for controlling the rate of delivery of fluids. 1,723,875; Aug. 6.
- Lungren, Arthur N., Chicago, Ill. Vanity case. 1,709,990; Apr. 23.
- Lungström, Fredrik, Lidö-Brevik, and A. Lysholm, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Condenser for locomotives. 1,724,357; Aug. 13.



- Lunn, Ernest, assignor to Pullman Car and Manufacturing Corporation, Chicago, Ill. Belt-cleaning device. 1,704,750; Mar. 12.
- Lunn, Ernest, assignor to Pullman Car and Manufacturing Corporation, Chicago, Ill. Electric welding. 1,707,405; Apr. 2.
- Lunn, Ernest, assignor to The Pullman Company, Chicago, Ill. Belt-cleaning device. 1,720,187; July 9.
- Luoma, John W., Stuart, Fla. Combination shock absorber and air compressor. 1,718,700; June 25.
- Lupton, Elmer H., assignor to The Bartgis Brothers Co., Baltimore, Md. Folding box. 1,699,978; Jan. 22.
- Lupton, Elmer H., assignor to The Bartgis Brothers Company, Baltimore, Md. Folding box. 1,718,204; June 18.
- Lupton's, David, Sons Company. (See Brogden, Joah, assignor.)
- Lupton's, David, Sons Company. (See Ferguson, Frank C., assignor.)
- Lupton's, David, Sons Company. (See Sheard, Joseph H., assignor.)
- Lurcott, Winfred N., Elizabeth, N. J., assignor to A. McDougal, New York, N. Y. Receptacle-washing machine. 1,713,973; May 21.
- Lurcott, Winfred N., Elizabeth, N. J., assignor to Moore Bros. Company, New York, N. Y. Dispensing valve. 1,726,402; Aug. 27.
- Lurf, Karl, Frankfurt-on-the-Main, Germany. Wheel lath. 1,720,227; July 9.
- Lurf, Karl, Frankfurt-on-the-Main, Germany. Clamping means for wheel lathes. 1,733,892; Oct. 29.
- Lurie, Benjamin, Chicago, Ill. Gas torch for dental use. 1,721,914; July 23.
- Lurie, Benjamin, Chicago, Ill. Dental impression tray. 1,740,773; Dec. 24.
- Lurie, Erwin M., Oak Park, Ill. Furring device. 1,713,139; May 14.
- Lurie, Sidney J. (See Alsaker A., and Lurie.)
- Lusby, George N. (See Pasquarelli, B., and Lusby.)
- Luscri, Joseph P., Cleveland, Ohio. Computing machine housing. Des. 79,524; Oct. 1.
- Luse, Harry B., Lynwood, Calif. Fruit dispensing device. 1,722,849; July 30.
- Lush, Clifford N., Winnipeg, Manitoba, Canada. Heat economizer. 1,717,715; June 18.
- Lusso, Rodolfo, Habana, Cuba. Pump or hydraulic power-transmission machine. 1,697,924; Jan. 8.
- Lutcb, Anthony F., Hays, Pa. Hammer device. 1,718,161; June 18.
- Lute, Carl, and K. J. Tobin, assignors to Camel Company, Chicago, Ill. Elevating means for car doors. 1,729,954; Oct. 1.
- Luten Engineering Company. (See Herr, Shirl, assignor.)
- Lutes, Arthur M., assignor of one-half to A. C. Flack, Kansas City, Mo. Magnetic hair clipper. 1,708,315; Apr. 9.
- Lutting, Anthony E., Milwaukee, Wis. Dispensing humidifier. 1,698,955; Jan. 15.
- Luthe, Julius K., and R. W. Johnson, Milwaukee, Wis., assignors, by mesne assignments, to Time-O-Stat Controls Company. Safety device for gas water heaters. 1,725,876; Aug. 27.
- Luther, Frederick P., Chicago, Ill. Parapet and fire walls on roofs of buildings and waterproofing same. 1,710,484; Apr. 23.
- Luther, Fritz, assignor to the firm G. Polysius, Dessau, Germany. Device for utilizing the heat radiated from kilns. 1,698,313; Jan. 8.
- Luther, John A., Bayonne, N. J., assignor to Publishers Autocaster Service Company, New York, N. Y. Stereotyping apparatus. 1,736,351; Nov. 19.
- Luther, Martin, Mannheim, and C. Heuck, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of condensation products of methylol compounds of a urea. 1,699,245; Jan. 15.
- Luther, Martin, Mannheim, and H. Jochheim, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Separation of compounds from the mixtures of oxygen-containing organic compounds. 1,704,751; Mar. 12.
- Luther, Martin, and K. Pieroh, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Recovery of dehydrogenation products. 1,723,458; Aug. 6.
- Luther, Martin, and K. Pieroh, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Purifying oil. 1,732,371; Oct. 22.
- Luther, Martin P., assignor to Super Safety Switch Co., Chicago, Ill. Guard for switch boxes. 1,710,172; Apr. 23.
- Luther, Martin P., assignor to Super Safety Switch Co., Chicago, Ill. Electric switch. 1,710,173; Apr. 23.
- Luthy, Charles T., Peoria, Ill. Penholder. 1,713,764; May 21.
- Luthy, Paul J. (See Bernet, F. N., and Luthy.)
- Luthy Research Laboratory. (See Garaca, Frank, assignor.)
- Lütolf, Josef, Lucerne, Switzerland. Machine adapted for the washing of dishes and other tableware. 1,739,404; Dec. 10.
- Luton, James E., Mesa, Ariz. Vehicle signal. 1,718,162; June 18.
- Luton, Thomas C., Evansville, Ind. Preventing aeroplanes from taking nose dives. 1,732,758; Oct. 22.
- Lütschen, Ewald, Munich, Germany. Cooler. 1,734,262; Nov. 5.
- Lutton, William H., Company. (See Pratt, Henry W., assignor.)
- Lüttringhaus, Arthur, Mannheim, H. Neresheimer, Ludwigshafen-on-the-Rhine, and H. Wolff, Mannheim, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dyestuff of the isodibenzanthrone series. 1,704,983; Mar. 12.
- Lüttringhaus, Arthur, Mannheim, H. Neresheimer, Ludwigshafen-on-the-Rhine, and H. J. Emmer, Mannheim, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Production of dipthaloyl anthraquinones. 1,706,493; Mar. 26.
- Lüttringhaus, Arthur, and F. Kačer, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Production of ketones of the anthracene series. 1,730,081; Oct. 1.
- Lüttringhaus, Arthur, and H. Wolff, Mannheim, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Production of isodibenzanthrones. 1,725,590; Aug. 20.
- Lutz, Alfred, Chicago, Ill. Lifting tongs. 1,731,674; Oct. 15.
- Lutz, Friedrich, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Ball crank. 1,711,737; May 7.
- Lutz, Friedrich, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Needle-actuating mechanism for sewing machines. 1,718,427; June 25.
- Lutz, Friedrich, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Looper-actuating mechanism for overedge sewing machines. 1,719,709; July 2.
- Lütz, Johann, Essen-Bredene, Germany. Vertical coking oven. 1,702,699; Feb. 19.
- Lutz, Julius H., assignor of one-fourth to H. Radzinsky, New York, N. Y. Electrical connection clip. 1,705,579; Mar. 19.
- Lutz, Lloyd F. (See Croll, J. L., and Lutz.)
- Lutz, Otto. (See Sauer, G. E., and Lutz.)
- Lutze, Arno. (See Hayd, Lorenz, assignor.)
- Lützenkirchen, Fritz, Hattingen-Ruhr, Germany. Process of and apparatus for producing pressed railway-car axles and similar forgings. 1,738,593; Dec. 10.
- Lux Clock Manufacturing Company. (See Lux, Frederick, assignor.)
- Lux Clock Manufacturing Company. (See Lux, Paul and F., assignors.)
- Lux, Frederick. (See Lux, Paul and F.)
- Lux, Frederick, Waterbury, Conn. Electric clock winding mechanism. 1,733,689; Oct. 29.
- Lux, Frederick, assignor to The Lux Clock Manufacturing Company, Waterbury, Conn. Time switch. 1,735,540; Nov. 12.
- Lux, Gottlob, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Tank lining. 1,730,856; Oct. 8.
- Lux, Paul, and F., assignors to Lux Clock Manufacturing Company, Waterbury, Conn. Pyramid clock case. Des. 79,828; Nov. 5.
- Luzzatti, Emil, Vineland, and H. M. Schloss, Jersey City, N. J. Cinder block and making the same. 1,711,027; Apr. 30.
- Lyback, Peter J., Chicago, Ill. Tractor. 1,735,929; Nov. 19.
- Lybrand, Horace H., Washington, D. C. Aircraft control. 1,723,653; Aug. 6.
- Lybber, Benjamin H., Lavoy, Wyo. Apparatus for pumping oil from wells. 1,698,444; Jan. 8.
- Lyddane, Mortimer C., Yonkers, assignor to D. H. Zell, Brooklyn, N. Y. Vanity case. Des. 79,829; Nov. 5.
- Lyddane, Mortimer C., Yonkers, assignor to D. H. Zell, Brooklyn, N. Y. Vanity case. Des. 79,830; Nov. 5.
- Lyddane, Mortimer C., Yonkers, assignor to D. H. Zell, Brooklyn, N. Y. Vanity case. Des. 79,831; Nov. 5.
- Lyddane, Mortimer C., Yonkers, assignor to D. H. Zell, Brooklyn, N. Y. Vanity case. Des. 79,832; Nov. 5.
- Lydecker, John G., assignor, by mesne assignments, to E. Z. E. Cushion Corporation, New York, N. Y. Coin-controlled and coin-collecting mechanism. 1,732,446; Oct. 22.
- Lye, Walter R., Cleveland, and N. A. Ferrier, Lakewood, Ohio, assignors to Franklin Railway Supply Company. Locomotive booster-motor equipment. 1,727,125; Sept. 3.
- Lyford, Robert E., assignor to Invention Engineering Corporation, Chicago, Ill. Driving mechanism. 1,708,511; Apr. 9.
- Lyford, Robert E., assignor to Invention Engineering Corporation, Chicago, Ill. Driving mechanism for vehicle wheels. 1,709,430; Apr. 16.
- Lyker, A. A., et al. (See Bradley, James, assignor.)
- Lykken, Henry G., Minneapolis, Minn. Pulverizing device and method. 1,699,849; Jan. 22.
- Lykken, Henry G., Minneapolis, Minn. Fuel pulverizer. 1,728,423; Sept. 17.
- Lykken, Henry G., Minneapolis, Minn. Ring-flow reverberatory furnace. 1,734,387; Nov. 5.
- Lyle, James C., Plymouth, Mass. Rotary mixer. 1,740,613; Dec. 24.
- Lyle, John R., Lebanon, Ky. Variable-line-spacing device. 1,737,801; Dec. 3.



- Lyle, Kenneth, assignor to Bayuk Cigars Incorporated, Philadelphia, Pa. Cigar-brushing machine. 1,729,078; Sept. 24.
- Lyles, Ambrose C., Greensboro, Ala. Feeding device. 1,733,066; Oct. 22.
- Lyles, James N., Oakcrest, Va., assignor to Joanna Mercantile Company, Goldville, S. C. Token. Des. 79,195; Aug. 13.
- Lyman, Donald F., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture-film splice. 1,727,349; Sept. 10.
- Lyman, Kenneth E., assignor to Bendix Brake Company, Chicago, Ill. Brake-applying mechanism. 1,711,119; Apr. 30.
- Lyman, Kenneth E., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,730,516; Oct. 8.
- Lyman, Kenneth E., assignor to Bendix Brake Company, Chicago, Ill. Brake control. 1,730,663; Oct. 8.
- Lyman, Kenneth E., Hinsdale, assignor, by mesne assignments to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,853; Dec. 31.
- Lyman, Kenneth E., assignor to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,855; Dec. 31.
- Lyman, Kenneth E., assignor to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,862; Dec. 31.
- Lyman, Kenneth E., assignor to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,863; Dec. 31.
- Lyman, Kenneth E., assignor to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,864; Dec. 31.
- Lyman, Kenneth E., assignor to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,865; Dec. 31.
- Lyman, Kenneth E., and A. M. Lane, assignors to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,856; Dec. 31.
- Lyman, Kenneth E., and A. M. Lane, assignors to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,859; Dec. 31.
- Lyman, Kenneth E., and A. M. Lane, assignors to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,860; Dec. 31.
- Lyman, Kenneth E., and A. M. Lane, assignors to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,861; Dec. 31.
- Lyman, Kenneth E., and M. W. McConkey, assignors to Bendix Brake Company, Chicago, Ill. Brake. 1,741,577; Dec. 31.
- Lyman, Kenneth E., Rockford, and R. B. McMullen, jr., Evanston, assignors to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,857; Dec. 31.
- Lyman, Kenneth E., Rockford, R. B. McMullen, jr., Evanston, and A. M. Lane, assignors to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,854; Dec. 31.
- Lyman, Arthur H. (See Leyst, Carl, assignor.)
- Lynch, Charles A., Pittsburgh, assignor to Fort Pitt Steel Casting Company, McKeesport, Pa. Sign-supporting column. Des. 78,710; June 11.
- Lynch, Charles W., Perry, Okla. Swivel connection. 1,698,162; Jan. 8.
- Lynch, Charles W., Perry, assignor to Williams Iron Works Company, Incorporated, Tonkawa, Okla. Wrench. 1,710,317; Apr. 23.
- Lynch, Charles W., Perry, assignor to Williams Iron Works Company, Incorporated, Tonkawa, Okla. Chain tightener. 1,741,785; Dec. 31.
- Lynch, E. A., trustee. (See Scoggins, Jesse C., assignor.)
- Lynch, Edward, Duluth, Minn. Rail clamp. 1,729,077; Sept. 24.
- Lynch, Frank J., assignor to The Sun Tube Corporation, Hillside, N. J. Slug magazine for extruding machines. 1,699,504; Jan. 15.
- Lynch, Frank J., assignor to The Sun Tube Corporation, Hillside, N. J. Conveyor chain. 1,707,088; Mar. 26.
- Lynch, Frank J., assignor to The Sun Tube Corporation, Hillside, N. J. Apparatus for extruding caps. 1,726,442; Aug. 27.
- Lynch, Frank J., assignor to The Sun Tube Corporation, Hillside, N. J. Painter roller. 1,733,893; Oct. 29.
- Lynch, Frederick. (See Knight, R. F., and Lynch.)
- Lynch, George B., G. L. Carroll, and A. Gumm, Tucson, Ariz. Rivet-removing tool. 1,742,040; Dec. 31.
- Lynch, George G., and L. B. Tillery, Wilmington, N. C., assignors to Kennedy Corporation, Baltimore, Md. Valve. 1,727,295; Sept. 3.
- Lynch, Mattie M. (See Herwig, H. F., and Lynch.)
- Lynch, Michael J., Detroit, Mich. Hot-water heater. 1,707,812; Apr. 2.
- Lynd, Harry J., Parsons, Kans. Noise eliminator for internal-combustion engines. 1,737,466; Nov. 26.
- Lyndon, Alford S., Ann Arbor, Mich. Grip for golf clubs. 1,734,684; Nov. 5.
- Lyndon, Edward, New York, N. Y. Storage-battery container. 1,699,850; Jan. 22.
- Lyndon, Lamar, New York, N. Y. Electrical distribution system. 1,732,609; Oct. 22.
- Lyne, Charles H., Miami, Fla. Metal-molding apparatus. 1,706,305; Mar. 19.
- Lyng, John. (See Bugge, Erling, assignor.)
- Lynn, John P., assignor to Dur-O-Lite Pencil Company, Chicago, Ill. Pencil. 1,715,770; June 4.
- Lynn, Kenneth E., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating means. 1,702,407; Feb. 19.
- Lyon, Fred C., Fayette, Ohio. Sound amplifier. 1,723,570; Aug. 6.
- Lyon, George A., Philadelphia, Pa., assignor, by mesne assignments, to American Chain Company, Inc. Vehicle buffer device. 1,739,849; Dec. 17.
- Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, doing business as Barbour Welting Company, Brockton, Mass. Goodyear welting. 1,699,979; Jan. 22.
- Lyon, Harry, Holbrook, assignor to P. E. Barbour, trading as Barbour Welting Company, Brockton, Mass. Shoe welting. 1,706,624; Mar. 26.
- Lyon, Harry, Holbrook, assignor to P. E. Barbour, trading as Barbour Welting Company, Brockton, Mass. Shoe welting. 1,706,625; Mar. 26.
- Lyon, Harry, Holbrook, assignor to P. E. Barbour, doing business as Barbour Welting Company, Brockton, Mass. Welting for boots and shoes. 1,708,627; Apr. 9.
- Lyon, Harry, Holbrook, assignor to P. E. Barbour, trading as Barbour Welting Company, Brockton, Mass. Welt shoe and two-unit welting. 1,708,629; Apr. 9.
- Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, Mass. Welting. 1,723,049; Aug. 6.
- Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, Mass., doing business as Barbour Welting Company. Two-unit welting. 1,729,727; Oct. 1.
- Lyon, Harry, Holbrook, and L. H. Gilson, assignors to P. E. Barbour, trading as Barbour Welting Company, Brockton, Mass. Shoe welting and making the same. 1,708,628; Apr. 9.
- Lyon, Harry A. (See Whitney, H. L., and Lyon.)
- Lyon & Healy, Inc. (See Gilbert, Charles A., assignor.)
- Lyon, Henry W., Erie, Pa., assignor to General Electric Company. Electric switch. 1,734,912; Nov. 5.
- Lyon Iron Works. (See Raymond, George G., assignor.)
- Lyon Iron Works. (See Van De Mark, W. D., and Raymond, assignors.)
- Lyon, Leonard S. (See Key, James F., assignor.)
- Lyon Metal Products. (See Vance, Walter N., assignor.)
- Lyon Metal Products, Incorporated. (See Gerberich, Clarence E., assignor.)
- Lyon Metal Products, Incorporated. (See Vance, Walter N., assignor.)
- Lyon, Oscar B., Holtville, assignor to A. B. Baust and J. J. Richart, Whittier, Calif. Sucker-rod hanger. 1,732,480; Oct. 22.
- Lyon, Richard W., Bellflower, and C. White, Long Beach, Calif. Cement head. 1,700,503; Jan. 29.
- Lyon, Robert N., assignor of one-half to M. W. Lawson, Coeur d'Alene, Idaho. Trip hook. 1,738,657; Dec. 10.
- Lyon, Tarry, Brockton, assignor to J. A. Barbour, Brookline, and P. E. Barbour, Quincy, Mass., a copartnership doing business as Barbour Welting Company, Brockton, Mass. Seaming machine. 1,698,641; Jan. 8.
- Lyon, William E., San Diego, Calif. Portable electric heater. 1,709,223; Apr. 16.
- Lyons, Arthur E., North Caldwell, N. J. Screen hanger. 1,739,157; Dec. 10.
- Lyons, Arthur W., Baltimore, Md. Oil stove. 1,730,224; Oct. 1.
- Lyons, Charles T., and H. W. Bell, assignors to The Durable Mat Company, Seattle, Wash. Die press. 1,725,287; Aug. 20.
- Lyons, George W., Oak Park, Ill. Vibrator for sound-reproducing apparatus. Des. 77,847; Feb. 26.
- Lyons, James G., Stockton, Calif. Vacuum wing stabilizer for aeroplanes. 1,741,578; Dec. 31.
- Lyons, James W., Oak Park, Ill. Differential power-transmission device. 1,701,723; Feb. 12.
- Lyons, Jess F., Chanute, Kans. Combined guiding and centering device. 1,726,079; Aug. 27.
- Lyons, Jesse H., Spokane, Wash. Internal-combustion engine. 1,699,111; Jan. 15.
- Lyons, Patrick, et al. (See Porter, Thomas J., assignor.)
- Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Clutch and stop mechanism. 1,699,796; Jan. 22.
- Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Sewing-machine guard. 1,711,606; May 7.
- Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Button clamp. 1,711,607; May 7.
- Lysholm, Alf. (See Ljungström, F., and Lysholm.)
- Lysholm, Alf, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Radial gas or steam turbine. 1,718,163; June 18.
- Lysholm, Alf, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Steam turbine. 1,736,612; Nov. 19.
- Lysons, Jay W., assignor to Jiffy Corporation, New York, N. Y. Shaving-brush attachment for tubes containing cream. Des. 77,784; Feb. 19.
- Lysons, Jay W., assignor to Jiffy Corporation, New York, N. Y. Shaving-brush appliance. 1,725,464; Aug. 20.
- Lysons, Jay W., assignor to Jiffy Corporation, New York, N. Y. Shaving appliance. 1,726,305; Aug. 27.
- Lyth, Cyril J. (See Pike, F. J., and Lyth.)
- Lyth, John J., Valleyfield, Quebec, Canada. Cloth-piling machine. 1,710,544; Apr. 23.
- Lyth, John J., Valleyfield, Quebec, Canada. Piling cloth. 1,716,451; June 11.



- Lyth, John J., Valleyfield, Quebec, Canada. Apparatus for and process of piling roped cloth on a circular area. 1,731,429; Oct. 15.
- Lytle, Arthur R., Elmhurst, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Nonferrous welding rod. 1,716,590; June 11.
- Lytle, William O., New Kensington, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making composite glass. 1,698,371; Jan. 8.
- Lytle, William O., New Kensington, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for making composite glass. 1,732,022; Oct. 15.
- Lytle, William O., New Kensington, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for making composite glass. 1,732,023; Oct. 15.
- Lytle, William O., New Kensington, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making composite glass. 1,740,989; Dec. 24.
- Lyttle, Rowland B., Los Angeles, Calif. Piston and piston ring. 1,719,300; July 2.
- Lyttle, William A., and L. C. Haggard, Henryetta, Okla. Mining-machine bit box. 1,725,288; Aug. 20.
- M. & B. Manufacturing Co. (See Mersfelder, F. J., and Balze, assignors.)
- M. J. B. Co. (See Bardet, George A., assignor.)
- M. J. B. Co. (See Burns, Wilford E., assignor.)
- M. F. Manufacturing Company. (See Opie, E. J., and Goldsworthy, assignors.)
- M S Co. (See Nitte, Frederick W., assignor.)
- M. & V. Tank Co. (See McMurray, William G., assignor.)
- Maag Gear Wheel and Machine Company. (See Maag, Max, assignor.)
- Maag, Max, Schwamendingen, assignor to Maag Gear Wheel and Machine Company, Ltd., Zurich, Switzerland. Compensating nut. 1,707,442; Apr. 2.
- Maag, Max, Waldgarte-Schwamendingen, near Zurich, assignor to Maag Gear Wheel and Machine Company, Ltd., Zurich, Switzerland. Device for taking up the play in gears. 1,718,469; June 25.
- Maag, Oscar L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Electroplating. 1,725,877; Aug. 27.
- Maanum, Dedrick A., and A. J. Davis, Minneapolis, Minn. Pasteurizing apparatus. 1,728,424; Sept. 17.
- Maas, Elov F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Band-building machine. 1,706,626; Mar. 26.
- Maas, Elov F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Band-building machine. 1,728,162; Sept. 10.
- Maas, Elov F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cutting machine. 1,728,163; Sept. 10.
- Maas, Elov F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Squeegee applicator. 1,735,689; Nov. 12.
- Maas, Elov F., and E. G. Templeton, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Band-making machine. 1,732,759; Oct. 22.
- Maas, Henry, assignor to The Vollrath Co., Sheboygan, Wis. Pan holder and retainer. 1,710,368; Apr. 23.
- Maas, Julius, and S. W. Shuttleworth, Tampa, Fla. Pocket-lighter-filling station. Des. 78,298; Apr. 16.
- Maas & Waldstein Co. (See Klinkenstein, G., and Magnus, assignors.)
- Maas, Waldo, et al. (See Leyvraz, André, assignor.)
- Maas, Waldo A., and G. B. Sykes, London, England. Binder for loose-leaf books and like articles. 1,733,503; Oct. 29.
- Mabbitt, Thomas T., Sacramento, Calif. Dispensing stand. Des. 79,433; Sept. 17.
- Mabbitt, Albert W., Mohrland, Utah. Safety circuit maker and breaker lock for induction coils. 1,718,747; June 25.
- Mabee, Alexander C. (See Dienner, J. A., and Mabee.)
- Mabee, William R., assignor to Hahne & Company, Newark, N. J. Package-wrapping apparatus. 1,710,779; Apr. 30.
- Mabrey, Mary B., administratrix. (See Mabrey, Phil L.)
- Mabrey, Phil L., deceased, Columbus, Ohio; M. B. Mabrey, administratrix. Rug-cleaning machine. 1,714,273; May 21.
- Macadam, John, Wilmington, assignor to Joseph Bancroft & Sons Co., Rockford, Wilmington, Del. Treating materials incidental to dyeing. 1,712,044; May 7.
- Macallen Company, The. (See McCarthy, Louis, assignor.)
- MacArthur, Angus, Chicago, Ill., assignor to The Koppers Company, Pittsburgh, Pa. Alarm mechanism for regenerative reversal systems. 1,703,116; Feb. 26.
- MacArthur, Angus, Chicago, Ill., assignor to The Koppers Company, Pittsburgh, Pa. Distributor for automatic stokers. 1,716,071; June 4.
- Macartney, John H., assignor to Amerian Dry Concentrator Co., San Francisco, Calif. Dry concentrator. 1,733,380; Oct. 29.
- Macaulay, H. C., Foundry Company. (See Henderson, Clarence M., assignor.)
- Macaulay, John B., Jr., assignor to Chrysler Corporation, Detroit, Mich. Vibration dampener. 1,716,496; June 11.
- MacAuley, Patrick J., Portland, Oreg. Liquid dropper. 1,698,340; Jan. 8.
- Macbeth Bruce Engine Company, The. (See Bassett, Alvin J., assignor.)
- Macbeth, Colin, Birmingham, England. Press. 1,715,851; June 4.
- Macbeth-Evans Glass Company. (See Test, Frances K., assignor.)
- Macbeth-Evans Glass Company. (See Baker, Fred C., assignor.)
- MacBlane, James, assignor of one-third to J. J. Murray and one-third to J. J. Hassett, Elmira, N. Y. Starter for internal-combustion engines. 1,720,962; July 16.
- MacBride, Donald H., Lapeer, Mich., assignor, by mesne assignments, to International Toy Corporation, New Bedford, Mass. Toy or similar article. Des. 79,975; Nov. 26.
- MacCaffray, Paul J., assignor to Francis A. Bruner, Inc., Philadelphia, Pa. Valance for window draperies. Des. 77,647; Feb. 5.
- MacCallum, Alfred E. G., Wandsworth, London, England. Grinding mill. 1,725,715; Aug. 20.
- MacCallum, Alfred E. G., Wandsworth, London, England. Grinding mill. 1,729,515; Sept. 24.
- Maccallum, James, jr. (See Powell, Edward R., assignor.)
- Maccarone Co., Inc. (See Maccarone, F., and Gentile, assignors.)
- Maccarone, Fred, and F. T. Gentile, Brooklyn, N. Y., assignors to Maccarone Co., Inc. Removable top lift for shoe heels. 1,725,810; Aug. 27.
- MacCarthy, Charles F., Salem, Mass. Ground switch. 1,736,794; Nov. 26.
- MacCarthy, James L., Brooklyn, N. Y. Signaling device. 1,735,403; Nov. 12.
- MacChesney, Chester M., assignor to Acme Steel Company, Chicago, Ill. Reinforcing means for containers. 1,702,909; Feb. 19.
- MacChesney, Chester M., and J. E. Ott, assignors to Acme Steel Company, Chicago, Ill. Loading freight cars. 1,703,495; Feb. 26.
- MacChesney, Chester M., and J. E. Ott, assignors to Acme Steel Company, Chicago, Ill. Loading freight cars. 1,726,709; Sept. 3.
- MacChesney, Chester M., and J. E. Ott, assignors to Acme Steel Company, Chicago, Ill. Sealing device. 1,730,669; Oct. 8.
- MacClatchie, John W., Compton, Calif. Blow-out preventer. 1,708,316; Apr. 9.
- MacCordy, Frank E., Fulton, N. Y. Printing machine. 1,706,033; Mar. 19.
- MacCubbin, Alexander A., Philadelphia, Pa., assignor to The Barrett Company. Coating machine. 1,716,072; June 4.
- Macdonald, Alexander. (See Macrae, J. D., Macdonald, and Macrae.)
- MacDonald, Alexander D. (See Loomis, C. C., and MacDonald.)
- MacDonald, Angus S., Great Neck, N. Y., assignor to Sneed & Company, Jersey City, N. J. Bookstack. 1,736,883; Nov. 26.
- MacDonald, Angus S., Great Neck, N. Y., C. C. Waite, Roselle Park, N. J., and E. M. Huggins, New York, N. Y., assignors to Sneed & Company, Jersey City, N. J. Electric heating apparatus. 1,708,512; Apr. 9.
- MacDonald, Chester B. (See Kirschbraun, L., and MacDonald.)
- MacDonald, David B., Leicester, England. Apparatus for making stiffeners for boots and shoes. 1,715,299; May 28.
- MacDonald, Donald J., Cambridge, Mass. Extension plank. 1,737,315; Nov. 26.
- MacDonald, Eleanor, New York, N. Y. Juice extractor. 1,702,737; Feb. 19.
- Macdonald Engineering Company. (See Durham, Robert P., assignor.)
- MacDonald, Graeme, San Francisco, Calif. Berry basket. 1,735,173; Nov. 12.
- Macdonald, John A., Vancouver, British Columbia, Canada. Scaffold supporting device. 1,722,529; July 30.
- Macdonald, Maynard F., Victoria, British Columbia, Canada. Souvenir. 1,708,479; Apr. 9.
- Macdonald, Murdo, Brooklyn, N. Y. Overhead conveyer. 1,726,993; Sept. 3.
- MacDonald, Murdock, Cleveland, Ohio. Autographic register. 1,703,677; Feb. 26.
- MacDonald, Ralph L., Niagara Falls, N. Y. New type of electrolytic cell. 1,740,659; Dec. 24.
- Macdonald, Ronald M., Hambleton, Christchurch, New Zealand. Shock absorber. 1,726,272; Aug. 27.
- Macdonald, Robert C., London, England. Pulley block. 1,730,433; Oct. 8.
- Macdonald, William, Homewood, Ill. Combined insole and arch support. 1,706,455; Mar. 26.
- Macdonald, William, Dennison, Ohio. Inking attachment for color printing. 1,721,458; July 16.
- MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. J. Wave signalling system. 1,721,520; July 23.
- MacDonald, William A., Little Neck, N. Y., assignor to Hazeltine Corporation, Jersey City, N. Y. Vacuum tube. 1,733,504; Oct. 29.
- MacDonald, William W., Chippewa, Mass., assignor to A. G. Snodding & Bros., New York, N. Y. Collapsible valve and making same. 1,702,974; Feb. 19.
- MacDougall, John F., Atlanta, Ga. Tamper. 1,704,202; Mar. 5.
- MacDougall, Harry W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Number-indicating system. 1,709,084; Apr. 16.
- MacDow, George W., Watertown, assignor to Henry F. Miller Piano Company, Boston, Mass. Piano desk. 1,719,016; July 2.



- Mace, Charles V., assignor of fifteen per cent to King Time Bomb Company, five per cent to R. S. Shannon and fifteen per cent to E. F. Randolph, Denver, Colo. Toilet valve. 1,730,374; Oct. 8.
- Mace, Clement, H., Denver, Colo. Smelting furnace. 1,724,490; Aug. 13.
- Mace, Delos A., Eureka, Calif. Direction-signal switch. 1,737,166; Nov. 26.
- Mace, William A. (See Dunn, John J., assignor.)
- MacEachron, Edward I., Brockton, Mass. Tape and plumb-bob target. 1,705,871; Mar. 19.
- MacFadden, Mrs. C. K., publicity chairman, Women's Branch Hoover-for-President, Engineers' National Committee. (See MacFadden, Carl K., assignor.)
- MacFadden, Carl K., Daytona Beach, Fla., assignor to Mrs. C. K. MacFadden, publicity chairman, Women's Branch Hoover-for-President, Engineers' National Committee, New York, N. Y. Emblem or the like. Des. 77,648; Feb. 5.
- MacFarlane, Hector, London, England. Smoke-testing apparatus for pipes, drains, and the like. 1,708,731; Apr. 9.
- MacFarlane, Robert F., London, England. Apparatus for dividing or cutting fruits and the like. 1,735,174; Nov. 12.
- MacFee, William F., New York, N. Y. Hospital bed. 1,723,288; Aug. 6.
- MacGahan, Paul, Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Meter structure. Ref. 7,244; Mar. 26.
- MacGahan, Paul, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wave meter. 1,697,196; Jan. 1.
- MacGahan, Paul, Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,740,548; Dec. 24.
- MacGahan, Paul, Orange, N. J., and L. Stalder, Turtle Creek, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. 1,734,220; Nov. 5.
- Macgill, Charles D. (See Barr, A., Stroud, and Macgill.)
- Macgillivray, Alister D., San Pedro de Macoris, Dominican Republic. Demountable rim. 1,698,022; Jan. 8.
- Macgillivray, Donald A., Dalkeith, Ontario, Canada. Brush-adjusting device for generators. 1,733,129; Oct. 29.
- MacGregor, David R., Marengo, Iowa. Vending machine. 1,724,297; Aug. 13.
- MacGregor, Halbert P., Clayton, assignor to MacGregor Valve Company, St. Louis, Mo. Lubricated plug valve. 1,710,176; Apr. 23.
- MacGregor, Halbert P., Clayton, assignor to MacGregor Valve Company, St. Louis, Mo. Lubricated plug valve. 1,720,523; July 9.
- MacGregor, James, Braintree, Mass. Distributing device. 1,722,306; July 30.
- MacGregor, John, assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe and cartridge therefor. 1,715,771; June 4.
- MacGregor, John, assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. 1,723,362; Aug. 6.
- MacGregor, John, assignor to Cook Laboratories Inc., Chicago, Ill. Hypodermic syringe. 1,737,857; Dec. 3.
- MacGregor, Robert, London, England. Hatch cover. 1,735,329; Nov. 12.
- MacGregor Valve Company. (See MacGregor, Halbert P., assignor.)
- MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,707,310; Apr. 2.
- MacGregor, Wallace F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Combination harvester thrasher. 1,717,931; June 18.
- MacGregor, Wallace F., assignor to J. I. Case Company, Racine, Wis. Combination harvester thrasher. 1,730,225; Oct. 1.
- MacGregor-Morris, John T., Hampstead, London, England. Apparatus for measuring the velocities of fluids. 1,724,296; Aug. 13.
- Mach, Edward, assignor, by mesne assignments, of one-half to Seales Electric Welding Works, Chicago, Ill. Combination bumper, spare-tire carrier, and trunk rack. 1,701,210; Feb. 5.
- Machida, Toshio. (See Nagaoka, H., Asada, and Machida.)
- Machinenfabrik Rütli, vormals Caspar Honegger of Rütli. (See Egli, E., and Derrer, assignors.)
- Machinery Development Company. (See Vogel, Charles P. and A. C., assignors.)
- Machlet, Adolph W., Elizabeth, N. J. Furnace for melting metals. 1,713,543; May 21.
- Machtoff, Josef, assignor to the firm Chr. Hostmann-Steinberg'sche Farbenfabriken G. m. b. H., Celle, Germany. Fluid compressor. 1,729,430; Sept. 24.
- MacHugh, William L., Philadelphia, Pa. Adjustment for inductances of variometers. 1,707,950; Apr. 2.
- MacIlldowie, John C., assignor to Asbestos Wood & Shingle Co., Nashua, N. H. Making thick sheets of bonded asbestos. 1,708,842; Apr. 9.
- MacInerney, James L., Grand Rapids, Mich. Metal trim stick. 1,724,946; Aug. 20.
- MacInerney, James L., Grand Rapids, Mich. Spring containing strip. 1,724,947; Aug. 20.
- MacInnes, Jesse. (See Jones, G. W., and MacInnes.)
- MacInnes, Robert H., assignor to Cribben & Sexton Company, Chicago, Ill. Electric range. 1,706,122; Mar. 19.
- MacInnes, Robert H., assignor to Cribben & Sexton Company, Chicago, Ill. Electric cooking plate. 1,714,175; May 21.
- MacInnes, Robert H., assignor to Cribben & Sexton Company, Chicago, Ill. Electric oven. 1,736,451; Nov. 19.
- MacIntosh, Charles L., Chicago, Ill. Roll-away bed. 1,708,630; Apr. 9.
- MacIntosh, John C., assignor to The General Engineering Company, Salt Lake City, Utah. Fluid distributor. 1,713,046; May 14.
- Mack, Charles B., assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Valve device. 1,740,774; Dec. 24.
- Mack, Edward A., Huntington, W. Va. Guy-wire tension equalizer. 1,720,339; July 9.
- Mack, George W., Atlantic City, N. J., assignor to Mack Machine Company, Inc. Combined tool box and workbench. 1,740,470; Dec. 24.
- Mack, Joseph H., Passaic, N. J. Textile fabric. Des. 77,902; Mar. 5.
- Mack, Joseph H., Passaic, N. J. Textile fabric. Des. 77,903; Mar. 5.
- Mack, Joseph H., Passaic, N. J. Textile fabric. Des. 77,904; Mar. 5.
- Mack Machine Company. (See Mack, George W., assignor.)
- Mack, Margaret, New Brunswick, N. J. Utensil for cooking ranges. 1,716,179; June 4.
- Mack Molding Company. (See Burke, James P., assignor.)
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Letting-in tool for oil and gas well appliances. 1,700,324; Jan. 29.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Gas-control attachment for packers. 1,700,325; Jan. 29.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. 1,722,102; July 23.
- Mackay, Donald, Springfield, Ohio. Golf club. 1,707,677; Apr. 2.
- Mackay, Dudley E., Bloomfield, and F. L. Black, East Orange, N. J. Exercising device. 1,721,346; July 16.
- MacKay, George, Los Angeles, Calif. Direction signal. 1,734,094; Nov. 5.
- MacKay, George M. J., Schenectady, N. Y., assignor to General Electric Company. Thermionic electrode. 1,716,545; June 11.
- MacKay, Henry J. S., Ryde, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. 1,726,112; Aug. 27.
- MacKay, Henry S., London, England. Electrochemical process for the extraction of copper and zinc from ores. 1,737,425; Nov. 26.
- MacKay, John F., Lancaster, Pa. Egg-turning means for incubators. 1,740,516; Dec. 24.
- MacKay, Joseph E., Los Angeles, Calif. Pencil. 1,705,935; Mar. 19.
- MacKaye, Harold S., Yonkers, N. Y., assignor, by mesne assignments, to Dry Fresh Process, Inc. Dehydrating apparatus. 1,701,813; Feb. 12.
- MacKaye, James, Hanover, N. H. assignor to Stone & Webster, Inc., Boston, Mass. Refrigerator. 1,714,176; May 21.
- Mackenzie, Alexander S., assignor to Clayton Gin Compress Company, Houston, Tex. Method of and apparatus for making bales. 1,723,245; Aug. 6.
- Mackenzie, Alexander S., assignor to Clayton Gin Compress Company, Houston, Tex. Cotton condenser. 1,740,990; Dec. 24.
- Mackenzie, Alexander W., Montclair, N. J., assignor to Meakin & Ridgway, Inc., New York, N. Y. Plate or similar article. Des. 79,593; Oct. 15.
- Mackenzie, Donald G., Montreal, Quebec, Canada. Steering mechanism. 1,697,319; Jan. 1.
- Mackenzie, Franklin H., Philadelphia, Pa., assignor of one-half to M. H. Lane, Washington, D. C. Rectifier compound. 1,727,656; Sept. 10.
- Mackenzie, Fred L. (See Goddu, G., and Mackenzie.)
- Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine and gauge therefor. 1,702,389; Feb. 19.
- Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for pulling fastenings. 1,711,608; May 7.
- Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Toplift-attaching mechanism. 1,716,591; June 11.
- Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work support. 1,716,592; June 11.
- Mackenzie, Fred L., Beverly, Mass. Mechanism for controlling the transmission of signals. 1,731,538; Oct. 15.
- Mackenzie, James C., jr. (See Melville, W., and Mackenzie.)
- Mackenzie, John, assignor of one-half to W. Heynacher, Minneapolis, Minn. Gas heating system. 1,699,743; Jan. 22.
- MacKenzie, John D., and R. W. Senger, Garfield, Utah, assignors to American Smelting and Refining Company, New York, N. Y. Furnace-roof construction. 1,724,098; Aug. 13.
- MacKenzie, Kenneth G., Westport, Conn., and R. Haskell, Summit, N. J., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Lubricating oil. 1,705,298; Mar. 12.



- MacKenzie, Leon R., Des Moines, Iowa. Apparatus and method for pavement construction. 1,707,089; Mar. 26.
- MacKenzie, Leon R., Des Moines, Iowa. Wear course for pavements. 1,707,939; Apr. 2.
- MacKenzie, Leon R., Des Moines, Iowa. Impact method of making pavement. 1,718,863; June 25.
- MacKenzie, Leon R., Des Moines, Iowa. Making a wear course for pavements. 1,729,884; Oct. 1.
- MacKenzie, Leon R., Des Moines, Iowa. Making a pavement wearing course. 1,729,885; Oct. 1.
- MacKenzie, William E., London, England. Transporter. 1,716,234; June 4.
- Mackey, Alexander C. (See Brewin, H. E., and Mackey.)
- Mackey, William, Monroe, Wis. Ventilating device. 1,724,801; Aug. 13.
- Mackie, David B. (See Taylor, E. C., and Mackie.)
- Mackie, James, and Sons, Limited. (See Mackie, John P., assignor.)
- Mackie, John P., assignor to James Mackie and Sons, Limited, Belfast, Ireland. Doffing motion for spinning, twisting, and like machines. 1,713,423; June 25.
- Mackie, Mitchell, Waukesha, Wis. Switch. 1,710,884; Apr. 30.
- Mackie, Richard W., Washington, D. C. Physical-development apparatus. 1,720,283; July 9.
- Mackie, Robert J., Kansas City, Mo. Automatic starting switch. 1,729,622; Oct. 1.
- MacKintosh, Charles J., Oakland, Calif. Automobile oil cooler. 1,717,716; June 18.
- MacKintosh, John J., Port Richmond, N. Y. Diving toy submarine. 1,736,270; Nov. 19.
- MacKintosh, William B. (See Weaver, G. E., and MacKintosh.)
- MacLachlan, Angus, Metuchen, N. J., assignor to The American By-Products Machinery Company, New York, N. Y. Producing fertilizer and the resulting product. 1,718,297; June 25.
- Macklanburg, Louis A., Oklahoma City, Okla. Counter display case. 1,702,215; Feb. 12.
- Macklem, John J., Los Angeles, Calif. Supporting device for rails. 1,736,501; Nov. 19.
- Mackloud, Michel E., New York, N. Y., assignor to Elec-tron Corporation, East Orange, N. J. Translating device. 1,727,373; Sept. 10.
- MacLafferty, Taylor H., Tenino, Wash. Controlling float-ing logs and the like. 1,697,774; Jan. 1.
- MacLaren, Fred B. (See Braselton, C. H., and MacLaren.)
- MacLaren, Fred B., Jamaica, assignor to C. H. Braselton, New York, N. Y. Controlling means for fuel-feeding mechanism. 1,711,152; Apr. 30.
- MacLaren, Fred B., Jamaica, assignor to C. H. Braselton, New York, N. Y. Inertia-operated pumping mechanism. 1,737,380; Nov. 26.
- MacLaurin, John, Ware, Mass. Ornamental paper and manufacturing same. 1,724,672; Aug. 13.
- MacLean, Ashley S., Wembley Park, England. Machine for affixing adhesive labels. 1,727,439; Sept. 10.
- MacLean, J. Showles, Toledo, Ohio. Jar receptacle. 1,706,241; Mar. 19.
- MacLean, John H., A. C. Barrows, and G. W. Langford, assignors to Economy Baler Company, Ann Arbor, Mich. High-density attachment for compresses for cotton bales. 1,702,913; Feb. 19.
- Maclean, Leonard A., Reading, Pa. Patch strip for tag-patching machines. 1,701,240; Feb. 5.
- Macleay, Andrew T., Edinburgh, Scotland. Rotary engine, pump, blower, or meter. 1,733,191; Dec. 3.
- MacLellan, Angus D., Owensboro, Ky. Mixing apparatus. 1,738,440; Dec. 3.
- MacLennan, Telford, Hamilton, New Zealand. Furnace. 1,738,254; Dec. 3.
- MacLeod, Cameron, assignor to Baeurle & Morris, Inc., Philadelphia, Pa. Purifying gasoline solvent. 1,720,604; July 9.
- MacMahon, James H. (See Pattillo, D. K., and MacMahon.)
- MacMenigall, William H., Jacobs, Natal, assignor to J. S. Hancock, Johannesburg, South Africa. Manufacture of pipes or tubes from fiber and cementitious material. 1,717,236; June 11.
- MacMichael, Hugh R., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Operating a hearth-type furnace. 1,730,582; Oct. 8.
- MacMichael, Hugh R., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Scotch-hearth rabbling mechanism. 1,733,352; Oct. 29.
- MacMichael, Paul S., Seattle, Wash., assignor to Glad-ding, McBean & Co., San Francisco, Calif. Roofing. 1,725,466; Aug. 20.
- Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Corporation. Electric ship propulsion. 1,701,382; Feb. 5.
- Macmillan, Campbell, Schenectady, N. Y., assignor to General Electric Company. System of ship propulsion. 1,713,188; May 14.
- MacMillan, Daniel J., Brooklyn, N. Y. Pneumatic-dispatch carrier. 1,721,915; July 23.
- MacMillan, William B., assignor to Louisiana State Rice Milling Company, Inc., Abbeville, La. Carton. Des. 79,858; Nov. 12.
- MacMillin, Howard F. (See Ernst, W., and MacMillin.)
- MacMillin, Howard F., Mount Gilead, Ohio. Automatic pressure regulator. 1,731,145; Oct. 8.
- MacMullin, Robert B. (See George, A., and MacMullin.)
- MacMullin, Robert B., La Salle, and A. George, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,713,668; May 21.
- MacMullin, Robert B., La Salle, and A. George, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,713,669; May 21.
- MacMullin, Robert B., La Salle, and A. George, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,718,287; June 25.
- MacNab, Francis A., Granby, Colo. Wagon construction. 1,698,642; Jan. 8.
- Macnab, Joseph, and E. Osbaldiston, Marple, England. Light reflector. 1,718,655; June 25.
- MacNeill, Harris L., assignor to Waltham Watch Company, Waltham, Mass. Resetting mechanism for odometers, etc. 1,703,678; Feb. 26.
- MacNeill, Harris L., assignor to Waltham Watch Company, Waltham, Mass. Counting mechanism. 1,710,229; Apr. 23.
- MacNeill, L. K., et al. (See Hendricks, Riley, assignor.)
- Macnicol, Arnold N., Melbourne, Victoria, Australia. Manu-facturing emulsive preparations. 1,711,503; May 7.
- Macomber, James L., Des Moines, Iowa. Refreshment booth and the like. 1,721,703; July 23.
- Macomber, Lynn W., and C. H. Jarvis, assignors to United Steel & Wire Company, Battle Creek, Mich. Poultry crate. 1,704,947; Mar. 12.
- Macomber, Stanley, Edgfield District, Ohio. Composite wood-metal structural unit. 1,737,601; Dec. 3.
- Macomic, Chester A., assignor to Patent Product Corpora-tion of Chicago, Chicago, Ill. Process of and apparatus for type casting and proof reading. 1,725,153; Aug. 20.
- Macomic, Chester A., assignor to Patent Products Cor-poration of Chicago, Chicago, Ill. Type-casting mechan-ism. 1,736,271; Nov. 19.
- Macourek, Jerry. (See Watling, T. W. B., and Macourek.)
- MacPhaul, William J., New York, N. Y. Paper doily. Des. 77,905; Mar. 5.
- MacQuarrie, John, assignor to C. Walter, San Francisco, Calif. Painting and preserving art glass. 1,724,211; Aug. 13.
- MacRae, Duncan, East Orange, N. J., assignor to Westing-house Lamp Company. Vacuum device and cleaning up residual gases therein. 1,699,112; Jan. 15.
- Macrae, James D., A. Macdonald, and K. A. Macrae, Bonar-Bridge, Scotland. Lamp for vehicles. 1,721,347; July 16.
- Macrae, James N., Stamford, Conn., assignor to Petroleum Heat and Power Company, New York, N. Y. Ignition mechanism. 1,734,299; Nov. 5.
- Macrae, Kenneth A. (See Macrae, J. D., Macdonald, and Macrae.)
- MacRae, Mungo L., Schenectady, N. Y., assignor to General Electric Company. Wire-feeding mechanism for arc welding machines. 1,733,812; Oct. 29.
- Macready, George A., Los Angeles, Calif. Making produc-tion tests in oil wells. 1,697,249; Jan. 1.
- Macready, George A., Los Angeles, and W. B. Hemme, Bakersfield, Calif. Car-cleaning device. 1,697,534; Jan. 1.
- Macshane, James L., New Kensington, Pa. Sterilizing toothbrush holder. 1,708,423; Apr. 9.
- Maetle Machine Co. (See McIntyre, Andrew G., assignor.)
- MacVey, Arthur W., Brooklyn, N. Y. Dental apparatus. 1,729,223; Sept. 24.
- MacVicar, John A., London, England, assignor to Sullivan Machinery Company, Chicago, Ill. Drilling in the earth, particularly in coal, shale, slate, and like formations. 1,738,594; Dec. 10.
- MacWilliams, James F., Cresson, Pa. Safety switch structure. 1,736,452; Nov. 19.
- Macy, Alfred J., Chicago, Ill., assignor, by mesne assign-ments, to The Lake Erie Chemical Company, Clevel-land, Ohio. Automatic safe burglar lock. 1,736,205; Nov. 19.
- Macy, Alfred J., Chicago, Ill., assignor, by mesne assign-ments, to The Lake Erie Chemical Company, Cleveland, Ohio. Vault gas bomb. 1,736,206; Nov. 19.
- Macy, Barnett W., Jacksonville, Fla. Liquid heater. 1,718,865; June 25.
- Macy, Barnett W., Jacksonville, Fla. Liquid heater. 1,718,866; June 25.
- Macy, Barnett W., Jacksonville, Fla. Electric liquid heater. 1,729,587; Sept. 24.
- Macy, Ishmael W., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Bucket-controlled spout. 1,705,986; Mar. 19.
- Macy, Ishmael W., assignor to The Galion Iron Works & Mfg. Co., Galion, Ohio. Bucket-position-indicating means for hoists. 1,712,045; May 7.
- Macy, R. H., & Co. (See Von Kersburg, Harry E., as-signor.)
- Madan, Edward K., Maplewood, N. J. Combination pen cil and letter. Des. 79,889; Nov. 12.
- Madarasz, Julius, East Lansing, Mich. Automatic tire gauge. 1,727,474; Sept. 10.
- Madaschi, Giuseppe, Milan, Italy. Frame with down-turn-able wheels for alternative use as traction carriage for small guns and as platform for placing them in battery. 1,721,275; July 16.
- Madaschi, Giuseppe, Milan, Italy. Apparatus for throw-ing bombs or torpedoes. 1,721,704; July 23.



- Maddaford, Francis S., assignor to Crosse and Blackwell, Inc., Baltimore, Bd. Bottle. Des. 79,296; Aug. 27.
- Madden, Edward J., Detroit, Mich. Brake. 1,735,206; Nov. 12.
- Madden, Edward J., Detroit, Mich. Brake-controlling mechanism. 1,736,046; Nov. 19.
- Madden, Harry D. (See Ulrey, C. T., and Madden.)
- Madden, Harry D., Montclair, N. J., assignor to Westinghouse Lamp Company. Mechanism for conveying and discharging lamp bulbs. 1,712,670; May 14.
- Madden, Harry D., Montclair, and J. Kirby, Newark, N. J., assignors to Westinghouse Lamp Company. Method and machine for making plate electrodes. 1,738,658; Dec. 10.
- Madden, James P., Bethlehem, Pa., assignor to Bethlehem Steel Company. Extrusion press. 1,715,936; June 4.
- Madden, James P., and C. G. Nordstrom, Bethlehem, Pa., assignors to Bethlehem Steel Company. Six-wheel truck. 1,714,796; May 28.
- Madden, Jeremiah E. (See Pomeroy, Timothy C., assignor.)
- Madden, John, Overland Park, assignor to International Shoe Company, St. Louis, Mo. Shoe snug. 1,710,885; Apr. 30.
- Maddox, John W., Marion, Md. Cigarette container. 1,733,163; Oct. 29.
- Maddox, Paul. (See Ellis, E. C., and Maddox.)
- Maddox, Robert E., Elk, Calif. Carpenter's level. 1,736,502; Nov. 19.
- Maddox, William J., Jamestown, N. Y. Edge and spindle sander. 1,701,814; Feb. 12.
- Maddox, William J., Jamestown, N. Y. Spindle-sanding machine. 1,701,815; Feb. 12.
- Mader, Otto, assignor to H. Junkers, Dessau, Germany. Propeller-shaft support. 1,740,362; Dec. 17.
- Madigan, Thomas J., Brooklyn, N. Y. Egg beater. 1,736,542; Nov. 19.
- Madinger, Gottlieb F., St. Joseph, Mo. Arch supporter. 1,710,831; Apr. 30.
- Madison, Harry, Council Bluffs, Iowa. Bath-spray apparatus. 1,728,129; Sept. 10.
- Madison-Kipp Corporation. (See Coles, Wilfred G., assignor.)
- Madison Silo Company. (See Gurney, W. W., and Woody, assignors.)
- Madison, William M., Chicago, Ill. Motion-picture screen. 1,711,897; May 7.
- Madorsky, Samuel L., assignor to Gathmys Research Corporation, Chicago, Ill. Direct reduction of iron from its ores. 1,711,738; May 7.
- Madsen, Abner L., jr., assignor of one-half to R. G. Seelhoff, Chicago, Ill. Puffed-valance retainer. 1,736,086; Nov. 19.
- Madsen, Abner L., jr., assignor of one-half to R. G. Seelhoff, Chicago, Ill. Hanger. 1,736,087; Nov. 19.
- Madsen, Charles P., New York, N. Y., assignor, by mesne assignments, to W. W. Varney, Baltimore, Md. Loud speaker. 1,698,504; Jan. 8.
- Madsen, Charles P., New York, N. Y., assignor, by mesne assignments, to W. W. Varney, Baltimore, Md. Supporting phonograph reproducing systems. 1,729,224; Sept. 24.
- Madsen, Charles P., New York, N. Y., assignor, by mesne assignments, to W. W. Varney, Baltimore, Md. Governor. 1,731,784; Oct. 15.
- Madsen, Charles P., Croton-on-Hudson, N. Y. System of sound generators. 1,705,733; Mar. 19.
- Madsen, Charles P., Harmon, N. Y., assignor, by mesne assignments, to W. W. Varney, Baltimore, Md. Phonograph. 1,734,172; Nov. 5.
- Madsen, H. R., et al. (See Storms, Harold O., assignor.)
- Madsen, Soren, Bergenfield, assignor of one-fourth to J. F. O'Brien, Englewood, N. J. Indicator, display apparatus, or annunciator. 1,728,900; Sept. 17.
- Madsen, Tage, Gottenborg, Sweden. Packing ring for use with pistons and piston rods. 1,725,660; Aug. 20.
- Madsen Iron Works. (See Madsen, Martin, assignor.)
- Madsen Iron Works. (See Madsen, Peter, assignor.)
- Madsen, Martin, Monterey Park, assignor to Madsen Iron Works, Huntington Park, Calif. Material drier. 1,715,852; June 4.
- Madsen, Martin, Monterey Park, assignor to Madsen Iron Works, Huntington Park, Calif. Proportioning apparatus. 1,715,853; June 4.
- Madsen, Peter, Los Angeles, assignor to Madsen Iron Works, Huntington Park, Calif. Range. 1,703,315; Feb. 26.
- Madsen, Sern, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Double-end universal saw. 1,700,683; Jan. 29.
- Madvig, Gunnar, Oakland Calif. Curtain-pole end. Des. 77,363; Jan. 1.
- Madvig, Gunnar, Oakland, Calif. Bracket for drapery pole or rod. Des. 78,358; Apr. 23.
- Maeda, Rinsai, Seattle, Wash. Mop. 1,701,686; Feb. 12.
- Maertins, Albert J., Wollaston, Mass. Windshield cleaner. 1,724,948; Aug. 20.
- Maes, Michael, et al. (See Schulte, John O., assignor.)
- Magalhaes, Frank V. (See Hill, E. E., and Magalhaes.)
- Magat, Israel, assignor to Chemische Fabrik Grünau Landshoff & Meyer Aktiengesellschaft, Berlin, Germany. Preparing medicines. 1,741,786; Dec. 31.
- Magazine Repeating Razor Company. (See Schick, Jacob, assignor.)
- Magazzu, Anthony A., Upper Darby Township, Delaware County, Pa. Method of and apparatus for making spumoni and the like. 1,698,411; Jan. 8.
- Magdeburger, Edward C., Washington, D. C. Internal-combustion engine. 1,702,875; Feb. 19.
- Magee Carpet Co., The. (See McCollum, Alfred F., assignor.)
- Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Motorist's eye shield. 1,706,931; Mar. 26.
- Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Motorist's eye shield. 1,741,061; Dec. 24.
- Magee, William H., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet. Des. 77,785; Feb. 19.
- Ma Gee, Willie N., Haynesville, La. Valve cage. 1,698,163; Jan. 8.
- Mager, Heinrich. (See Dempewolf, C., and Mager.)
- Mager, Herbert, Vienna, Austria. Arrangement for cooling liquids or fluids. 1,717,237; June 11.
- Magerle, Edmund, assignor to the firm Wengraf & Platzer, Vienna, Austria. Air-purifying apparatus. 1,728,425; Sept. 17.
- Magerstadt, E. J. (See Hartwig, William G., assignor.)
- Maggs, Arthur H., Keynsham, near Bristol, England, assignor to General Electric Company. Dynamo-electric machine. 1,738,441; Dec. 3.
- Magidson, Frank, Pittsburgh, Pa., assignor to Star-Service Hanger Company, Detroit, Mich. Wireworking machine. 1,735,580; Nov. 12.
- Magill, Donald G., Evanston, Ill., assignor to American Can Company, New York, N. Y. Self-closing sifter-top container. 1,725,962; Aug. 27.
- Magill, Edward A., Lookout Mountain, assignor to Mountain City Knitting Mills, Chattanooga, Tenn. Cone holder. 1,732,057; Oct. 15.
- Magill, Herbert L. (See Duskin, M. L., and Magill.)
- Magill, Herbert L., Chicago, Ill. Folded paper napkin. 1,713,000; May 14.
- Magnavox Company, The. (See Metcalf, Herbert E., assignor.)
- Magnavox Company, The. (See Whitson, Delmar A., assignor.)
- Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate. (See Bing, Julius, assignor.)
- Magnetic Analysis Corporation. (See Burrows, Charles W., assignor.)
- Magnetic Organ Action Company. (See Waters, Harry F., assignor.)
- Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate. (See Bing, Julius, assignor.)
- Magnet-Werk G. m. b. H. Eisenach Spezialfabrik für Elektromagnet-Apparate. (See Wittkuhns, Bruno, assignor.)
- Magnetyp S. A. (See Lenouvel, J. L., and Chapsal, assignors.)
- Magnoad, Inc. (See Craig, Richard M., assignor.)
- Magnus Fruit Products Co. (See Leibing, William E., assignor.)
- Magnus, Gustave D. (See Klinckenstein, G., and Magnus.)
- Magnus, John, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding machine. 1,699,540; Jan. 22.
- Magnuson, Oscar, Brooklyn, N. Y. Ironing table. 1,723,796; Aug. 6.
- Magosy, Rudolph, Brooklyn, N. Y. Mute for musical instruments. 1,714,513; May 28.
- Magrath, George H., Whitinsville, Mass. Spindle clutch. 1,741,197; Dec. 31.
- Magruder, Willett C., Louisville, Ky. Razor cabinet. 1,741,945; Dec. 31.
- Maguin, Abel, Paris, assignor to Societe Nouvelle des Etablissements Alfred Maguin, Charnes, near La Fere, Aisne, France. Beet slicer of the drum type. 1,707,090; Mar. 26.
- Maguire, Inc. (See Brackelsberg, Carl A., assignor.)
- Magune, Robert B., Rockland, Me. Perforating device. 1,718,164; June 18.
- Maguth, Michael J., Carlstadt, N. J. Work-supporting device for sewing and embroidering machine. 1,725,403; Aug. 20.
- Mahaffey, Benjamin S., Chicago, Ill. Display and dispensing apparatus. 1,732,131; Oct. 15.
- Mahaffey, Paul E., Tulsa, Okla. Belt tightener. 1,737,467; Nov. 26.
- Mahaffy, Norman S., assignor to Houlding and Coleman Limited, Toronto, Ontario, Canada. Knitting neckties. 1,716,647; June 11.
- Mahan, Joseph R., assignor to The National Supply Company, Toledo, Ohio. Valve-seat puller. 1,726,187; Aug. 27.
- Mahan, William O., Shelbyville, Ind. Concrete burial vault. 1,700,504; Jan. 29.
- Mahana, Charles G., Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill. Priming internal-combustion engines. 1,731,430; Oct. 15.
- Mahannah, Everett A., New York, N. Y., assignor to International Paper Company. Electrical-contact mechanism. 1,731,054; Oct. 8.
- Maharg, George A., Moose Jaw, Saskatchewan, Canada. Fly swatter. 1,705,872; Mar. 19.
- Mahan, Harry B., Company. (See Phillips, Charles E., assignor.)



- Mahan, Homer G., Williamsburg, Ky. Dump car. 1,718,165; June 18.
- Mahan, Joseph R., Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio. Wrench. 1,721,963; July 23.
- Maier Bros. Company. (See Bradley, John, assignor.)
- Maier, Sadie J. (See Whiting, H. A., Hughes, and Maier.)
- Mahler, Edgar C., and G. J. Krueger, Wabpeton, N. Dak. Display and slicing device. 1,740,257; Dec. 17.
- Mahler, Fred, New York, N. Y. Bathroom combination set. 1,699,149; Jan. 15.
- Mahler, Johann, assignor to the firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Fuel pump. 1,737,602; Dec. 3.
- Mahler, Marie A., Leipzig, Germany. Educational apparatus. 1,700,946; Feb. 5.
- Mahler, Paul, assignor to Alberene Stone Co., New York, N. Y. Hardening alberene stone. 1,738,956; Dec. 10.
- Mahler, Paul, assignor to Darco Sales Corporation, New York, N. Y. Bleaching beeswax. 1,739,796; Dec. 17.
- Mahlie, Carl C. (See Wehr, E. R., Mahlie, and Cain.)
- Mahlie, Carl C. (See Wehr, E. R., and Mahlie.)
- Mahlmann, Sophy, Baltimore, Md. Folding eyeshade with cap. 1,718,867; June 25.
- Mahon, R. C., Company, The. (See Mahon, Russell C., assignor.)
- Mahon, Russell C., assignor to The R. C. Mahon Company, Detroit, Mich. Fire-door construction. 1,710,741; Apr. 30.
- Mahoney, Joseph N., Brooklyn, N. Y., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electric switch. 1,737,663; Dec. 3.
- Mahoney, Orville P., Joplin, and J. R. Key, Carthage, Mo. Moldboard for road-grading machines. 1,736,352; Nov. 19.
- Mahr Manufacturing Company. (See Hortvet, Richard M., assignor.)
- Mahrer, Harvey J., Kalamazoo, Mich., assignor to Remington Rand, Inc., Wilmington, Del. Stepped-sheet binder index. 1,738,306; Dec. 3.
- Maibrunn, David J. (See Korrol, Irving L., assignor.)
- Maier, August R., et al. (See Dale, Clarence R., assignor.)
- Maier, Charles J., assignor to Leader Iron Works, Decatur, Ill. Bumper. 1,699,473; Jan. 15.
- Maier, Charles J., assignor to Leader Iron Works, Decatur, Ill. Storage compartment. 1,716,703; June 11.
- Maier, Erich R. F., Bremen, Germany. Ship hull. 1,729,446; Sept. 24.
- Maier, Erich R. F., et al. (See Kloess, Hans K., assignor.)
- Maier, Karl, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Germany. Throat plate for sewing machines. 1,717,050; June 11.
- Maier, Karl, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Loop mounting for sewing machines. 1,725,591; Aug. 20.
- Maier, Karl, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Strip-feeding mechanism for sewing machines. 1,731,074; Oct. 8.
- Maier, Karl, assignor to Union Special Maschinenfabrik G. m. b. H., Stuttgart, Germany. Hemmed seam and producing the same. 1,736,453; Nov. 19.
- Maier, Robert, and M. Rall, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Internal-combustion engine. 1,720,561; July 9.
- Maier, Werner K., et al. (See Kloess, Hans K., assignor.)
- Maier, William, St. Louis, Mo. Box construction. 1,708,700; Apr. 9.
- Maier, William, St. Louis, Mo. Cutting machine. 1,718,570; June 25.
- Mallaender, Wilhelm, Cannstatt-on-the-Neckar, Germany. Application of sheets to printing machines. 1,704,618; Mar. 5.
- Malley, Roy D., East Orange, and W. J. Winninghoff, South Orange, assignors to Cooper Hewitt Electric Company, Hoboken, N. J. Glass-working machinery. 1,701,758; Feb. 12.
- Maimone, Francisco A., Los Teques, Venezuela. Corn huller. 1,708,367; Apr. 9.
- Main Belting Company. (See Tobey, Walter H., assignor.)
- Main, Fannie G., Chicago, Ill. Toy. 1,718,792; June 25.
- Main, Frank L., Jackson, Mich. Pressure indicator. 1,731,632; Oct. 15.
- Main, Otha E., and C. C. Waughop, Oskaloosa, Iowa. Combined hay rake, stacker, and loader. 1,710,632; Apr. 23.
- Main, William J., Westport, Conn., assignor to C. Errett, New York, N. Y. Collapsible paper cup. 1,738,782; Dec. 10.
- Mainland, John, assignor to Advance-Rumely Company, La Porte, Ind. Harvester thrasher. 1,713,291; May 14.
- Maino, Albert A., and A. Norlander, New Bedford, Mass. Slub catcher. 1,716,452; June 11.
- Mains, Charles R. (See English, C. C., and Mains.)
- Mains, Charles, and F. Battelger, Columbus, Ohio. Lamp. 1,716,967; June 11.
- Mains, Gerald H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Liquid coating composition. 1,730,857; Oct. 8.
- Mair, James, Newcastle-upon-Tyne, England. Stopping device for electric lifts. 1,703,743; Feb. 26.
- Maise, Herman C., assignor to Briggs Manufacturing Company, Detroit, Mich. Lock board. 1,710,220; Apr. 23.
- Maitland, Charles E. A. (See Snyders, G. C., Gordyn, Van de Kamp, and Maitland.)
- Maitland, Harold T., Sharon Hill, assignor to Sun Oil Company, Philadelphia, Pa. Making filtration and decolorizing adsorbents. 1,711,504; May 7.
- Maluri, Guido, and F. N. Moraschi, Turin, Italy, assignors to A. E. Anderson and R. F. Bossini, London, England. Refrigerating machine. 1,720,603; July 9.
- Maluri, Guido, and R. F. Bossini, London, England. Refrigerating machine of the absorption type. 1,725,658; Aug. 20.
- Maiuri, Guido, and R. F. Bossini, London, England. Refrigerating machine of the absorption type. 1,737,426; Nov. 26.
- Majce, Johann, Vienna, Austria. Manufacturing wire coils. 1,739,246; Dec. 10.
- Majestic Lamp Works. (See Cricchio, Paul, assignor.)
- Majestic Lamp Works. (See Silberhartz, Philip, assignor.)
- Majestic Manufacturing Company. (See Morley, Guilford S., assignor.)
- Majestic Metal Specialties, Inc. (See Kasdan, N., and Landwehr, assignors.)
- Majestic Steel Cabinet Company. (See Starr, F. C., and Waters, assignors.)
- Majuga, Daniil J., Moscow, Russia. Boiler. 1,697,015; Jan. 1.
- Majuskas, Charles J., Chicago, Ill. Ventilating and flushing apparatus for water-closets. 1,734,498; Nov. 5.
- Makart, August, Vienna, Austria, assignor to A. J. Powers, New York, N. Y. Image-projecting strip and producing same. 1,709,318; Apr. 16.
- Makepeace, B. L., Inc. (See Heinrich, Stephen J., assignor.)
- Maker, John A., Duluth, Minn. Reversible waste receiver. 1,737,603; Dec. 3.
- Maki, Julius, Chicago, Ill., assignor to The Whelco Engineering & Manufacturing Company. Door construction for washing machines. 1,700,706; Jan. 29.
- Makinen, Alto A., Cleveland, Ohio. Clothesline reel. 1,728,800; Sept. 17.
- Makita, Soji, Chatsu-Machi, Muroran-Shi, Hokkaido, assignor to Kabushiki Kaisha Nihon Seikoshu, Tokyo, Japan. Heat treatment of steel. 1,733,669; Oct. 29.
- Makowski, John F., assignor to California Cedar Products Company, Stockton, Calif. Plaster lath. 1,705,775; Mar. 19.
- Makowski, John F., Oakland, Calif., assignor to Fireproof Wall Company, Reno, Nev. Lintel construction. 1,739,684; Dec. 17.
- Maksik, Samuel, New York, N. Y. Pocketbook. 1,725,093; Aug. 20.
- Maland, Clarence M. (See Mohn, E. J., and Maland.)
- Malarkey, Huntington, Portland, Oreg. Door-assembling machine. 1,723,050; Aug. 6.
- Malboeuf, Joseph, Woonsocket, R. I. Suspended swinging fatiron. 1,712,150; May 7.
- Malcolm, Elton O., assignor to The Eastern Machine Screw Corporation, New Haven, Conn. Rod-feeding device. 1,714,684; May 28.
- Malcolm, James, Providence, R. I. Can opener. 1,706,894; Mar. 26.
- Malcolm, James A. (See Feuerherd, Ernest, assignor.)
- Malcomb, Charles Y., Akron, Ohio. Tire-repair patch. 1,716,648; June 11.
- Maldonado, Juvencio, New York, N. Y. Automatic station-signal device. 1,710,545; Apr. 23.
- Maley, Archie F., Trail, British Columbia, Canada. Electric steam heater. 1,711,609; May 7.
- Malicki, Joseph. (See Templeton, W. B., and Malicki.)
- Malin, Frank A., Detroit, Mich. Manufacturing hollow wax articles. 1,703,348; Feb. 26.
- Malinson, H. R., & Co. Inc. (See Heinke, Alfred J., assignor.)
- Maliphant, Charles W., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load brake. 1,720,284; July 9.
- Maliszewski, Roman B., Milwaukee, Wis. Aeroplane. 1,721,916; July 23.
- Malke, Sven, Milwaukee, Wis. Valve attaching and infating machine. 1,708,480; Apr. 9.
- Malke, Sven, Milwaukee, Wis. Buffing and cementing. 1,718,793; June 25.
- Malkin, Bernard A., Lachine, Quebec, Canada. Driving mechanism for paper-making machines. 1,730,082; Oct. 1.
- Mall, Arthur W., Chicago, Ill., assignor to The Stratmore Company, Cleveland, Ohio. Surfacing apparatus. 1,725,361; Aug. 20.
- Mall, Ivor O., New Orleans, La. Resilient rail anchorage. 1,739,158; Dec. 10.
- Mallasee, Lewis W., assignor to W. H. Mallasee, Pittsburgh, Pa. Ferrous alloy. 1,714,177; May 21.
- Mallasee, William H. (See Mallasee, Lewis W., assignor.)
- Malleable Iron Fittings Company. (See Pickup, George B., assignor.)
- Malleable Iron Fittings Company. (See Williams, Roland G., assignor.)
- Malleable Iron Range Company. (See Rogers, Frederick W., assignor.)
- Mallet, Richard, Paris, France, assignor to The Ensign Bickford Co., Simsbury, Conn. Adapter for detonating fuses or instantaneous matches. 1,719,065; July 2.
- Mallett, Harry, et al. (See Bradley, James, assignor.)
- Mallette, Cyrus. (See Skaggs, M. C., and Mallette.)



- Mallinckrodt Chemical Works. (See Mallinckrodt, H., jr., and Farr, assignors.)
- Mallinckrodt Chemical Works. (See Westerbeck, Frederick, assignor.)
- Mallinckrodt, Edward, jr., St. Louis, and H. V. Farr, Ferguson, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Method of and apparatus for preserving ether. 1,697,320; Jan. 1.
- Mallinson, H. R., & Co. (See Heinke, Alfred J., assignor.)
- Mallinson, H. R., & Co. Inc. (See Heinke, Alfred J., assignor.)
- Mallison, Edward G., Washington, N. C. Boat. 1,705,413; Mar. 12.
- Mallory, Edward B., Tenafly, N. J., assignor to Westinghouse Electric & Manufacturing Company. Combined signal system. 1,732,638; Oct. 22.
- Mallory, Harry C., deceased, by S. R. Mallory, administratrix, Bellport, N. Y., assignor to American Radiator Company. Expandible collapsible element. Re17,301; May 21.
- Mallory, Harry C., deceased; S. R. Mallory, administratrix, Bellport, N. Y.; said Harry C. Mallory, assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Producing expandible collapsible elements. 1,698,164; Jan. 8.
- Mallory, Harry C., Bellport, N. Y., assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Producing expandible-collapsible elements. 1,705,622; Mar. 19.
- Mallory, Harry C., deceased, by S. R. Mallory administratrix, Bellport, N. Y.; said Harry C. Mallory assignor, by mesne assignments, to American Radiator Company, Chicago, Ill. Expandible-collapsible element. 1,738,913; Dec. 10.
- Mallory, Harry C., deceased, New York, N. Y.; S. R. Mallory, administratrix. Engine-cooling system. 1,702,910; Feb. 19.
- Mallory, Harry C., deceased, New York, N. Y.; S. R. Mallory, administratrix. Internal-combustion engine. 1,731,582; Oct. 15.
- Mallory, Harry C., deceased, New York, N. Y.; S. R. Mallory, administratrix. Vaporizing fuel for internal-combustion engines. 1,731,583; Oct. 15.
- Mallory, Louis V., Lexa, Ark., assignor of one-half to R. F. Best, Kansas City, Mo. Advertising device. 1,704,984; Mar. 12.
- Mallory, Marion, Toledo, Ohio. Ignition system. 1,716,895; June 11.
- Mallory, P. R., & Co. Incorporated. (See Shoemaker, Harry, assignor.)
- Mallory, Sue R., administratrix. (See Mallory, Harry C.)
- Mallott, Herbert H., Grimsargh, near Preston, assignor to Textile Under-Clearers Limited, Preston, England. Underclearer for the rollers of yarn preparing, spinning, and like frames. 1,727,512; Sept. 10.
- Mallott, Joseph A., Seattle, Wash. Insole. 1,730,466; Oct. 8.
- Mallouk, Salim N., Brooklyn, N. Y. Towel or similar article. Des. 77,906; Mar. 5.
- Mallouk, Salim N., Brooklyn, N. Y. Towel or similar article. Des. 78,299; Apr. 16.
- Mallouk, Salim N., Brooklyn, N. Y. Towel or similar article. Des. 78,300; Apr. 16.
- Mallouk, Salim N., Brooklyn, N. Y. Towel or similar article. Des. 78,301; Apr. 16.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered lace-cloth table cover or the like. Des. 79,196; Aug. 13.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered lace-cloth table cover or the like. Des. 79,197; Aug. 13.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered lace scarf or the like. Des. 79,198; Aug. 13.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered bridge-table cover or the like. Des. 79,594; Oct. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered bridge-table cover or the like. Des. 79,595; Oct. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered bridge-table cover or the like. Des. 79,596; Oct. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered bridge-table cover or the like. Des. 79,597; Oct. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered bridge-table cover or the like. Des. 79,598; Oct. 15.
- Mallouk, Salim N., Brooklyn, N. Y. Embroidered table cover or the like. Des. 79,833; Nov. 5.
- Malloy, John E., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. File holder. 1,714,514; May 28.
- Malloy, John J. (See Fagan, J. T., and Malloy.)
- Malloy, John J. (See Fagan, J. T., Rippl, and Malloy.)
- Malloy, William W., and E. M. Toscanini, San Pedro, Calif. Golf game. 1,704,985; Mar. 12.
- Malluk, Assad M., New York, N. Y. Fuel-controlling means for automobiles. 1,727,475; Sept. 10.
- Malluk, Assad M., New York, N. Y. Closure for fuel tanks. 1,727,476; Sept. 10.
- Malluk, Assad M., New York, N. Y., and S. R. Bell, Rowayton, Conn.; said Bell assignor to said Malluk. Lockable closure for tanks. 1,701,816; Feb. 12.
- Malm, Carl J. (See Clarke, H. T., and Malm.)
- Malm, William, New Orleans, La. Electrical transmission of motion pictures and the like. 1,740,930; Dec. 24.
- Malmberg, Otto E., Maywood, Ill. Clothesline clamp. 1,726,306; Aug. 27.
- Malner, Frank. (See La Vigna, W., and Malner.)
- Malone, John E., Oak Park, Ill., assignor to Mojonner Bros. Co. Machine for cutting and delivering ice cream and like plastic materials. 1,706,584; Mar. 26.
- Malone, John F. J., Newcastle-on-Tyne, England. Heat engine operated by the expansion of liquids. 1,717,161; June 11.
- Maloney, Arthur M., Detroit, Mich. Laundry bag. 1,722,931; July 30.
- Maloney, George B. (See Owens, P. J., and Maloney.)
- Maloney, Joe F., and S. P. Farish, Houston, Tex. Well screen. 1,729,115; Sept. 24.
- Malonyay, John, Szekszard, Hungary. Power-operated plow or other agricultural implement. 1,728,209; Sept. 17.
- Maloon, Earl B., Oakland, assignor, by mesne assignments, to H. L. Jackson, Berkeley, Calif. Automatic coat-hanger-making machine. 1,727,513; Sept. 10.
- Maloon, Frederick V., assignor to James Sugden Company, Boston, Mass. Molding apparatus. 1,708,447; Apr. 9.
- Malott, Benjamin F., Greenville, S. C. Toy gun. 1,723,554; Aug. 6.
- Maloy, William A. (See Frissell, N. E., and Maloy.)
- Maltby, Douglas F., Bay Shore, assignor of one-fourth to C. W. Frieman, Bayshore, Islip, N. Y. Power-multiplying mechanism. 1,712,444; May 7.
- Malum, Frank D., Redondo Beach, Calif. Combined flash light and umbrella. 1,720,228; July 9.
- Malvos, Robert, Chartres and Crozemarie, Dreux, France. Furnace. 1,731,901; Oct. 15.
- Mambourg, Leopold, Lancaster, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Cooler. 1,718,372; June 25.
- Mambourg, Leopold, Lancaster, assignor to Libbey-Owens Glass Company, Toledo, Ohio. Nonreversible furnace. 1,739,973; Dec. 17.
- Mambourg, Luke C., Lancaster, assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Sheet-glass apparatus. 1,731,249; Oct. 15.
- Mambourg, Nestor, Lancaster, assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Glass-melting furnace. 1,731,248; Oct. 15.
- Mamet, Claude, Paris, France. Mechanically-operated alarm and signal device. 1,722,333; July 30.
- Mammone, Bernard. (See Villatore, J. E., and Mammone.)
- Mauby, Charles E. C. J., Hawksburn, Victoria, Australia. Amplifier for talking machines and like sound-reproducing apparatus. 1,727,072; Sept. 3.
- Manchester, Theodore C., Kent, Wash. Substitute for mothers' milk. 1,723,188; Aug. 6.
- Manchester, Thomas H. (See Gold, E. H., Manchester, and Russell.)
- Manchester, William J., Desdemona, Tex. Motor-meter casing or similar article. Des. 77,907; Mar. 5.
- Manchester, Robert H., Rochester, and L. W. Ely, Auburn, N. Y. Liquid-testing device. 1,709,139; Apr. 16.
- Mancib, Alvin S., Somerville, assignor to National Electrical Instrument Company, Cambridge, Mass. Thermo-static control system. 1,732,100; Oct. 15.
- Mancib, Alvin S., Somerville, assignor to H. C. Jones, Watertown, and E. W. Manter, Taunton, copartners doing business as Jones & Manter, Boston, Mass. Apparatus for controlling oil-burner pilot flames. 1,734,095; Nov. 5.
- Mand, Louise A., Los Angeles, Calif. Portable crib. 1,702,015; Feb. 12.
- Mandalian, Sabatelli G., North Attleboro, Mass. Coat-of-mail metallic mesh fabric. 1,701,502; Feb. 12.
- Mandel, Jacob A., Woolford, Alberta, assignor of one-half to A. Cope, Woolford, Alberta, Canada. Rock-picking machine. 1,722,932; July 30.
- Mandel, Morris J., Mattapan, Mass. Collapsible costumer. 1,729,395; Sept. 24.
- Mandelbaum, Maurice H. (See Brown, Herbert E., assignor.)
- Mauderson, Harold A., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Can closure. 1,702,786; Feb. 19.
- Mandl, Karl F., and J. Windisch, New Britain, Conn. Curtain and shade-roller supporter. 1,732,101; Oct. 15.
- Mandl, Siegmund, Milwaukee, assignor, by mesne assignments, to Husky Corporation, Kenosha, Wis. Wrench. 1,724,491; Aug. 13.
- Maness, Richard M., Ada, Okla. Canopy support for bedsteads. 1,737,664; Dec. 3.
- Maneval, Charles H., assignor to Standard Novelty Works, Duncannon, Pa. Vehicle guard. 1,721,159; July 16.
- Maney, Thomas, Louisville, Ky. Guard-rail fastening. 1,713,878; May 21.
- Maney, Thomas, Louisville, Ky. Guard-rail fastener. 1,723,797; Aug. 6.
- Manfredi, Frank, Corona, N. Y. Amusement apparatus. 1,705,987; Mar. 19.
- Mangan, John M., Wilkes-Barre, Pa. Toy. 1,731,342; Oct. 15.
- Manganese Patents Corporation. (See Trumbo, Howard and A. J., assignors.)
- Mangels, William F., Brooklyn, N. Y. Amusement apparatus. 1,700,640; Jan. 29.
- Mangione, Gaetano, et al. (See Moore, Samuel, assignor.)
- Mangold, John A., St. Petersburg, Fla. Bottle holder and filter. 1,742,041; Dec. 31.
- Manhattan Bead Chain Co. (See Wolf, Sam T., assignor.)
- Manhattan Electrical Supply Company. (See Baker, Lewis S., assignor.)



- Manhattan Electrical Supply Company. (See Hendry, William F., assignor.)
- Manhattan Electrical Supply Company. (See Phinney, Edward D., assignor.)
- Manhattan Terrazzo Brass Strip Co. Inc. (See Finkelstein, Harry L., assignor.)
- Manhattan Wicker Co. (See Forst, John, assignor.)
- Manheimer, Arthur E., assignor to Manheimer Watch Company, Chicago, Ill. Watchcase. Des. 79,434; Sept. 17.
- Manheimer Watch Company. (See Manheimer, Arthur E., assignor.)
- Manierre, George, Milwaukee, Wis. Heating device. 1,714,607; May 28.
- Manifold Impressions Corporation. (See Armistead, Hubert M., assignor.)
- Manifold Supplies Company. (See Hughes, William J., assignor.)
- Manion, Charles H., Follansbee, W. Va., assignor to Follansbee Brothers Company, Pittsburgh, Pa. Roll-adjusting mechanism. 1,703,349; Feb. 26.
- Manitowoc Ship Building Corporation. (See Moore, Roy S., assignor.)
- Manker, Forrest W., Jackson Heights, assignor to The Surface Combustion, Inc., New York, N. Y. Continuous normalizing furnace. 1,703,943; Mar. 5.
- Manker, Forrest W., Jackson Heights, N. Y., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Soaking-pit furnace. 1,711,273; Apr. 30.
- Manker, Forrest W., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Soaking-pit furnace. 1,711,274; Apr. 30.
- Manker, Frank B., Philadelphia, Pa., assignor to The Barrett Company. Device for applying strips. 1,697,958; Jan. 8.
- Mankin, Arthur J., Philadelphia, Pa., assignor to Triumph Hosiery Mills, Inc., New York, N. Y. Knitting machine. 1,706,306; Mar. 19.
- Manley, Francis N. (See Hayden, R. P., and Manley.)
- Manley, Job R., assignor of one-half to W. T. McGrew, East Liverpool, Ohio. Liquid dispenser. 1,733,310; Oct. 29.
- Manley Manufacturing Company. (See Manley, Robert E., assignor.)
- Manley, Robert E., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating adsorbent materials. 1,702,733; Feb. 19.
- Manley, Robert E., assignor to Manley Manufacturing Company, York, Pa. Grease bucket. 1,715,462; June 4.
- Manley, Robert E., assignor to Manley Manufacturing Company, York, Pa. Brake retainer. 1,721,227; July 16.
- Manley, Robert E., assignor to Manley Manufacturing Company, York, Pa. Double-toggle riveting machine. 1,722,530; July 30.
- Manley, Robert E., assignor to Manley Manufacturing Company, York, Pa. Towing truck. 1,722,585; July 30.
- Manley, Robert E., assignor to Manley Manufacturing Company, York, Pa. Air and gas service station. 1,725,289; Aug. 20.
- Manley, Wallace H. T. (See Whippy, G. F., Hooper, and Manley.)
- Mann, Frederick E., Cherrydale, Va. Crystal detector. 1,702,836; Feb. 19.
- Mann, Guy W., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Fluid-pressure bag. 1,699,600; Jan. 22.
- Mann, James F., Portland, Oreg. Portable merchandise display container. 1,716,557; June 11.
- Mann, James H., jr., Mont Eagle, Tenn., assignor to Southwestern Sales Corporation, New York, N. Y. Spurious-coin segregator. 1,699,300; Jan. 15.
- Mann, James H., jr., St. Petersburg, Fla., assignor to Southwestern Sales Corporation, New York, N. Y. Coin-detecting vending machine. 1,704,752; Mar. 12.
- Mann, John M., Philadelphia, Pa. Transmission. 1,732,760; Oct. 22.
- Mann, Joseph, Philadelphia, Pa., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing machines. 1,712,964; May 14.
- Mann, Joseph, Philadelphia, Pa., assignor to Union Special Machine Company, Chicago, Ill. Pull-off for sewing machines. 1,727,614; Sept. 10.
- Mann, Joseph, Philadelphia, Pa., assignor to Union Special Machine Company, Chicago, Ill. Combined hem folder and strip guide. 1,741,866; Dec. 31.
- Mann, Morris, Brooklyn, N. Y. Shoe buckle or similar article. Des. 79,834; Nov. 5.
- Mann, Morris, Brooklyn, N. Y. Shoe buckle or similar article. Des. 79,835; Nov. 5.
- Mann, Morris, Brooklyn, N. Y. Shoe buckle or similar article. Des. 80,038; Dec. 3.
- Mann, William, Company. (See Prizer, William M., assignor.)
- Mannesmannrohrenwerke. (See Heck, Ferdinand, assignor.)
- Manning, Chauncey P. (See Cave, H., Manning, and Sargent.)
- Manning & Co. (See Morton, Wade, assignor.)
- Manning, Elmer J., Janesville, Wis. Carburetor. 1,726,358; Aug. 27.
- Manning, Fred W., Berkeley, Calif. Apparatus for continuous expelling and clarifying fruit juices. 1,703,535; Feb. 26.
- Manning, Fred W., Berkeley, Calif., assignor to Stewart-Warner Corporation, Chicago, Ill. Magazine filter and still. 1,722,809; July 30.
- Manning, Fred W., Berkeley, Calif., assignor to Stewart-Warner Corporation, Chicago, Ill. Magazine filter. 1,723,741; Aug. 6.
- Manning, Fred W., Berkeley, Calif., assignor to Stewart-Warner Corporation, Chicago, Ill. Magazine-filter-driving mechanism. 1,725,811; Aug. 27.
- Manning, Fred W., Berkeley, Calif., assignor to Stewart-Warner Corporation, Chicago, Ill. Process of and apparatus for the continuous refining of lubricating oils of internal-combustion engines. 1,729,746; Oct. 1.
- Manning, Fred W., Berkeley, and H. L. Hirschler, San Francisco, Calif., assignors to Stewart-Warner Corporation, Chicago, Ill. Magazine filter. 1,722,808; July 30.
- Manning, Landon C., assignor to Pack Shops, Inc., New York, N. Y. Vending machine. 1,705,259; Mar. 12.
- Manning, Timothy C., Omaha, Nebr. Grain washer and drier. 1,697,875; Jan. 8.
- Manning, William. (See Packman, Percival J., assignor.)
- Manning, William F., New York, N. Y. Amusement apparatus. 1,716,235; June 4.
- Manning, William H., Pontiac, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Torsion balancer. 1,718,656; June 25.
- Manning, William H., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Valve mechanism. 1,737,316; Nov. 26.
- Mannington Mills, Inc. (See Campbell, Neil L., assignor.)
- Mannington Mills, Inc. (See Karpf, Charles O., assignor.)
- Manny, Fred L., assignor to F. P. Rosback Company, Benton Harbor, Mich. Stapling machine. 1,718,571; June 25.
- Manny, Joseph, Conoquenessing, Pa. Automobile lift. 1,718,657; June 25.
- Manon, Herve C., and J. A. and J. Z. Bromley, Washington, Pa. Almagamator. 1,704,010; Mar. 5.
- Manrodt, Henry, Newark, N. J., assignor to V. R. Shattuck, Pittsburgh, Pa. Slip-sheeting machine. 1,720,845; July 16.
- Mansell, Charles A., Cincinnati, Ohio. Kedge anchor. 1,731,785; Oct. 15.
- Mansfield, Beech R., Seminole, Okla. Jockey stick. 1,734,817; Nov. 5.
- Mansfield, Horace, assignor of one-half to R. R. Mansfield, Yonkers, N. Y. Orthopedic-shoe arch support. 1,715,165; May 28.
- Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Refuse cutter. 1,715,375; June 4.
- Mansfield, Judson H., and C. A. Wiken, assignors to Greenlee Bros. & Co., Rockford, Ill. Double-end tenoner. 1,711,275; Apr. 30.
- Mansfield, Orrin D., assignor to R. N. Curl, Glendale, Calif. Headlight attachment. 1,716,070; June 4.
- Mansfield, Richard R. (See Mansfield, Horace, assignor.)
- Mansfield, Royal J., New York, N. Y. Joint of plate steel and structural steelwork. 1,731,469; Oct. 15.
- Mansfield, Thomas, Reno, Nev. Irrigation furrow-forming device. 1,716,704; June 11.
- Mansfield, Willis H. (See Langlois, A. J., and Mansfield.)
- Manske, Frederick A. (See Birdsey, C. K., and Manske.)
- Manson, Frederick W., Toronto, Ontario, assignor to Mansons Limited, Hawkesbury, Ontario, Canada. Container. 1,723,246; Aug. 6.
- Manson, George J., Hawkesbury, Ontario, Canada. Suction box. 1,703,010; Feb. 19.
- Manson, George J., Hawkesbury, Ontario, Canada. Method of and apparatus for drying pulp articles. 1,725,465; Aug. 20.
- Manson, Ralph H., Pittsburgh, Pa., assignor to Hubbard and Company. Insulator support. 1,707,668; Apr. 2.
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic stop for phonographs. 1,710,800; Apr. 30.
- Manson, Thomas M., Toronto, Ontario, Canada, assignor to Clear Vision Pump Company, Limited, Toronto, Canada. Gasoline-dispensing device. 1,721,632; July 23.
- Mansons Limited. (See Manson, Frederick W., assignor.)
- Mansure, E. L., Company. (See Shults, Herbert O., assignor.)
- Manter, Everett W., et al. (See Mancib, Alvin S., assignor.)
- Manthei, Walter J., Milwaukee, Wis. Handle construction. 1,709,030; Apr. 16.
- Mantius, Otto. (See Simonson, W. H., and Mantius.)
- Mantius, Otto, New York, N. Y. Making fiber board. 1,723,051; Aug. 6.
- Mantle, David Le R., and G. L. Gordon, Pawhuska, Okla. Moving-picture projector. 1,740,932; Dec. 24.
- Mantle Engineering Company. (See Mantle, Gregory D., assignor.)
- Mantle, Gregory D., Pittsburgh, Pa., assignor to Mantle Engineering Company. Heat-exchange apparatus. 1,712,892; May 14.
- Mantle, Joseph G. C., Leonia, N. J. Rotary charge chamber. 1,705,062; Mar. 12.
- Mantle, Joseph G. C., Leonia, N. J. Automobile hood fastener. 1,705,260; Mar. 12.
- Mantle, Joseph G. C., Leonia, N. J. Automobile hood fastener. 1,705,261; Mar. 12.
- Mantle Lamp Company of America, The. (See Davis, Cortland W., assignor.)



- Mantout, Maurice, Paris, France. Steering-wheel device for automobile vehicles. 1,722,151; July 23.
- Mantson, Frank X., Philadelphia, Pa. Oil burner. 1,715,205; May 28.
- Manufacturers de Corcho S. A. (See Vincke, Enrique, assignor.)
- Manufacturers Brush Company, The. (See Radinse, Rudolph R., assignor.)
- Manufacturers Machinery Company. (See Mudd, Garrett W., assignor.)
- Manufacturers Service Corporation. (See Stoddard, Villette A., assignor.)
- Manus, Moses J., New York, N. Y. Textile fabric. Des. 78,641; May 28.
- Manus, Samuel, New York, N. Y. Combination music-sheet holder and stand. 1,724,492; Aug. 13.
- Manville, E. J., Machine Company, The. (See Bauck, Theodore H., assignor.)
- Manville, E. J., Machine Company. (See Brennan, Charles T., assignor.)
- Manville, E. J., Machine Company, The. (See Pracny, John E., assignor.)
- Manville, Henrietta P., New York, N. Y., assignor to The Goodyear's India Rubber Glove Manufacturing Company, Naugatuck, Conn. Overshoe or similar article. Des. 79,155; Aug. 6.
- Manville-Jenckes Company. (See Cook, K. B., and Gervais, assignors.)
- Manville Jenckes Company. (See Merriman, Isaac B., assignor.)
- Manville, Keith R., Brooklyn, assignor to International Motor Company, New York, N. Y. Shaft coupling. 1,720,422; July 9.
- Many, Frank B., Cleveland, Ohio. Helicopter aeroplane. 1,704,753; Mar. 12.
- Many, Frank B., Cleveland, Ohio. Operating a lighter-than-air dirigible. 1,727,210; Sept. 3.
- Many, Frank B., Cleveland, Ohio. Helicopter. 1,734,263; Nov. 5.
- Manzel, Adolph W. F., assignor to Manzel Bros. Co., Buffalo, N. Y. Shock absorber. 1,711,173; Apr. 30.
- Manzel, Adolph W. F., assignor to Manzel Brothers Co., Buffalo, N. Y. Stabilizer. 1,735,769; Nov. 12.
- Manzel, Adolph W. F., assignor to Manzel Bros. Co., Buffalo, N. Y. Shock absorber. 1,740,429; Dec. 17.
- Manzel Bros. Co. (See Manzel, Adolph W. F., assignor.)
- Manzo, Natale, Detroit, Mich. Vehicle safety bumper. 1,722,004; July 23.
- Mapel, Lewis A., St. Louis, Mo., assignor, by mesne assignments, to Stromberg Motor Devices Company, Chicago, Ill. Method and apparatus for indicating the head of a liquid body or the flow therefrom. 1,711,236; Apr. 30.
- Mapelsden, Harold H., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Flow meter. 1,698,314; Jan. 8.
- Mapes, Charles M., Rutherford, N. J., and E. Brittan, New York, N. Y.; said Brittan assignor to said Mapes. Swimming pool. 1,739,078; Dec. 10.
- Mappes, William L., assignor to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Closure fastener and reflector seal for lamps. 1,731,019; Oct. 8.
- Mara, Anthony J., Boonton, N. J. Light deflector. 1,712,351; May 7.
- Mara, Joseph, Chicago, Ill. Combined cigarette case and lighter. 1,741,867; Dec. 31.
- Marangoni, Mattia, New York, N. Y. Boat-propelling means. 1,701,381; Feb. 5.
- Maranville, Alger G., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Laminated board and making same. 1,712,965; May 14.
- Marathon Paper Mills Company. (See Meyer, Edwin A., assignor.)
- Marble, Edwin H., assignor to Curtis & Marble Machine Company, Worcester, Mass. Needle-felting machine. 1,706,535; Mar. 26.
- Marble, Edwin H., assignor to Curtis & Marble Machine Company, Worcester, Mass. Mantle-steaming and air-cooling machine. 1,738,837; Dec. 10.
- Marble, Louis C., Cleveland, Ohio, assignor to Alvey Manufacturing Company, St. Louis, Mo. Conveyor and chain therefor. 1,725,467; Aug. 20.
- Marble, Wilbur N., assignor of one-half to B. C. Oldham, Shreveport, La. Grapple. 1,739,601; Dec. 17.
- Marburg, Francis, Yonkers, N. Y. Gasifier device and method of installation in internal-combustion engines. 1,700,903; Feb. 5.
- Marburger, Samuel J., Lambertson, Minn. Liquid-dispensing apparatus. 1,705,580; Mar. 19.
- Marbury, Ralph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser terminal. 1,699,744; Jan. 22.
- Marbury, Ralph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser terminal. 1,699,745; Jan. 22.
- Marbury, Ralph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser system. 1,730,858; Oct. 8.
- Marby, Friedrich, Stuttgart, Germany. Apparatus for animated advertisements. 1,734,264; Nov. 5.
- Marcell, Carroll K., New York, N. Y. Vanity case. Des. 78,526; May 14.
- March, Carl, Chicago, Ill. Compound tool. Re17,532; Dec. 17.
- March, Carl, Chicago, Ill. Cup. 1,700,065; Jan. 22.
- March, Carl, Chicago, Ill. Desk pad. 1,712,352; May 7.
- March, Carl, Chicago, Ill. Holder. 1,727,240; Sept. 3.
- March, Carl, Chicago, Ill. Insect trap. 1,734,818; Nov. 5.
- Marchant, Arthur J., Wellington, New Zealand. Support for shelves and the like. 1,712,389; May 7.
- Marchant, Charles, Montigny-le-Tilleul, Belgium. Washing apparatus for separating coil and like materials. 1,729,545; Sept. 24.
- Marchetti-Motor Patents, Incorporated. (See Marchetti, Paul, assignor.)
- Marchetti, Paul, San Francisco, Calif., assignor to Marchetti-Motor Patents, Incorporated. Motor. Re17,428; Sept. 10.
- Marchev, Alfred, assignor to Temple, Inc., Chicago, Ill. Loud-speaker. Des. 78,473; May 7.
- Marchev, Alfred, assignor to Temple, Inc., Chicago, Ill. Stand. 1,735,505; Nov. 12.
- Marchev, Alfred, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Clutch. 1,713,909; May 21.
- Marchev, Alfred, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-handling apparatus. 1,717,793; June 18.
- Marchev, Alfred, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-treating machine. 1,731,055; Oct. 8.
- Marchev, Alfred, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for measuring materials. 1,739,247; Dec. 10.
- Marchiony, Anthony, assignor to I. Marchiony, Inc., Hoboken, N. J. Pastry-cone-making machine. 1,708,143; Apr. 9.
- Marchiony, I., Inc. (See Marchiony, Anthony, assignor.)
- Marchosky, Shulem J., Cristobal, Canal Zone. Signal alarm. 1,711,276; Apr. 30.
- Marchthal, Eduard, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft Siemensstadt, near Berlin, Germany. Railway-ticket-delivering apparatus. 1,737,932; Dec. 3.
- Marchus, Amos S., Oakland, Calif. Combined tire gauge and filling valve. 1,715,463; June 4.
- Marckworth, Otto S. (See Auld, F. H., and Marckworth.)
- Marco, Baruch B., and A. J. Herzig, New York, N. Y. Solitaire bridge-whist game. 1,705,581; Mar. 19.
- Marconi's Wireless Telegraph Company. (See Round, Henry J., assignor.)
- Marcum, Arthur I., Oakland, assignor to E. Winship, San Francisco, Calif. Vehicle drive. 1,703,536; Feb. 26.
- Marcum, Arthur I., Oakland, Calif., assignor to E. Winship, Macon, Ga. Frame construction. 1,720,796; July 16.
- Marcum, Arthur I., Oakland, Calif., assignor to E. Winship, Macon, Ga. Double reduction compensating through drive axles. 1,728,869; Sept. 17.
- Marcus, Benjamin H., Brooklyn, N. Y. Belt buckle. 1,723,742; Aug. 6.
- Marcus, Charles, et al. (See Church, Harold D., assignor.)
- Marcus, Charles, New York, N. Y. Doorcheck and similar device. 1,705,823; Mar. 19.
- Marcus, Charles, New York, assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,730,226; Oct. 1.
- Marcus, Charles L., New York, N. Y. Atomizer. 1,722,011; July 23.
- Marcus, George L., Williamson, W. Va. Construction of billiard tables. 1,719,187; July 2.
- Marcus, Jacob. (See Bricker, Abraham H., assignor.)
- Marcus, Jerome R., Chicago, Ill. Hydraulic-jack-operating pump. 1,706,456; Mar. 26.
- Marcus, Lewis A., New York, N. Y. Sifter. 1,712,306; May 7.
- Marcus, Samuel, Brooklyn, assignor to Markon Mfg. Co., Inc., New York, N. Y. Eye set. 1,698,553; Jan. 8.
- Marcus, Samuel, Brooklyn, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Tool for use in attaching tongues and teeth in doll heads. 1,706,628; Mar. 26.
- Marcus, Samuel, Brooklyn, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Doll eyes. 1,740,660; Dec. 24.
- Marcus, Samuel, Brooklyn, assignor, by mesne assignments, to Markon Manufacturing Co., Inc., New York, N. Y. Tool for attaching eye sets. 1,740,991; Dec. 24.
- Marcus, Samuel, Brooklyn, and A. Konoff, assignors to Markon Manufacturing Co., Inc., New York, N. Y. Rolling eyes for dolls. 1,727,477; Sept. 10.
- Marcus, Samuel, Riverdale, and A. Konoff, assignors to Markon Manufacturing Co., Inc., New York, N. Y. Artificial eye. 1,738,192; Dec. 3.
- Marcuse, Moses M., New York, N. Y. Cigarette package. 1,718,572; June 25.
- Marcussen, Siegfred, assignor to Imperial Knitting Company, Milwaukee, Wis. Knitted cap. Des. 77,967; Mar. 12.
- Marcy, Ernest H., Belmont, Mass., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic instrument. 1,728,260; Sept. 17.
- Marcy, Frank E., San Diego, Calif. Spiked lawn roller. 1,704,986; Mar. 12.
- Marcy, Grosvenor D., Newton Highlands, Mass. Card-sorting machine. 1,719,334; July 2.
- Marden, Graham Y., Marston Magna, England. Plant or fruit protecting means. 1,721,228; July 16.



- Marden, John W. (See Rentschler, H. C., and Marden.)  
Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Activation of refractory metal filaments. 1,698,850; Jan. 15.  
Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Producing uranium and uranium-zinc alloys. 1,728,940; Sept. 24.  
Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Producing uranium and uranium-zinc alloys. 1,728,942; Sept. 24.  
Marden, John W., East Orange, N. J., assignor to Westinghouse Lamp Company. Alloy and its manufacture. 1,731,255; Oct. 15.  
Marden, John W., and H. C. Rentschler, East Orange, N. J., assignors to Westinghouse Lamp Company. Composite body and producing the same. 1,733,813; Oct. 29.  
Marden, John W., and M. N. Rich, East Orange, N. J., assignors to Westinghouse Lamp Company. Production of rare metals. 1,728,941; Sept. 24.  
Marden, John W., East Orange, T. P. Thomas, and J. E. Conley, Bloomfield, N. J., assignors to Westinghouse Lamp Company. Preparing refractory metals. 1,704,257; Mar. 5.  
Marden, John W., C. T. Ulrey, East Orange, and L. F. Ehrke, Newark, N. J., assignors to Westinghouse Lamp Company. Composite X-ray target. 1,733,744; Oct. 29.  
Marden, William L., Elmhurst, assignor to Neptune Meter Company, New York, N. Y. Meter. 1,732,689; Oct. 22.  
Mardick, John R., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Cracking oils. 1,706,629; Mar. 26.  
Mardis, Paul L., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,699,797; Jan. 22.  
Mardis, Paul L., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,705,671; Mar. 19.  
Marek, Rudolph J., Uehling, Nebr. Testing tool. 1,726,157; Aug. 27.  
Marengo, Natalio G., Buenos Aires, Argentina. Sectional barrier. 1,727,779; Sept. 10.  
Marenti, Gus, Detroit, Mich. Battery-charging system. 1,708,102; Apr. 9.  
Maresh, Joseph J., Terrell, Tex. Photographic-printing machine. 1,722,228; July 23.  
Marfaing, Henri L., assignor to Compagnie Electro-Mécanique, Paris, France. Servo-motor-controlled unclutching device for internal-combustion engines. 1,729,173; Sept. 24.  
Margeson, Everett A., San Jose, Calif. Automatic display machine. 1,740,517; Dec. 24.  
Margetson, Oliver. (See Hazlehurst, H. E., and Margetson.)  
Margles, Samuel G., Brooklyn, and A. E. Handy, Lynbrook, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Safety device for conveyers. 1,729,079; Sept. 24.  
Marguerat, Robert, Montrouge, France. Pencil-sharpening machine. 1,732,728; Oct. 22.  
Margwarth, Boliver, Newport Beach, Calif. Printing-press attachment. 1,732,653; Oct. 22.  
Marboff, Chesterfield G., Chicago, Ill. Drip-cup attachment for spigots. 1,702,975; Feb. 19.  
Mariage, Pierre, assignor to Société dite: Société de Construction et d'Entretien de Matériel Industriel et Agricole Scemia, Paris, France. Controlling device for power transmission for vehicles traveling upon tracks. 1,697,730; Jan. 1.  
Mariani, Francesco, New York, N. Y. Dough-kneading machine. 1,731,584; Oct. 15.  
Marichal, André, Brussels, Belgium. Stove. 1,731,311; Oct. 15.  
Marietta, Anthony. (See Seldomridge, Harry, assignor.)  
Maril, Harry A., and P. Marnell, Kansas City, Mo. Pajamas. 1,699,401; Jan. 15.  
Mariman, Frank L., Portland, Oreg. Railway-switch heel block. 1,721,460; July 16.  
Marinello Company. (See Swindell, William E., assignor.)  
Marinsky, Davis, New York, N. Y. Coupling member for attaching devices. 1,702,640; Feb. 19.  
Marinsky, Davis, New York, N. Y. Sanitary napkin. 1,705,194; Mar. 12.  
Marinsky, Davis, New York, N. Y. Sanitary napkin. 1,734,499; Nov. 5.  
Marinsky, Davis, New York, N. Y. Expansion coupling device. 1,739,974; Dec. 17.  
Marinsky, Davis, New York, N. Y. Coupling member. 1,739,975; Dec. 17.  
Marinsky, Davis, New York, N. Y. Multiple-link resilient body. 1,739,976; Dec. 17.  
Marinsky, Davis, assignor to M. Beckerman, New York, N. Y. Strap-attaching and end-finishing device. 1,734,039; Nov. 5.  
Marion, Frank, Brattleboro, assignor of one-third to E. L. Scott, Barre, and one-third to H. G. Barber, Brattleboro, Vt. Heating system and apparatus. 1,741,529; Dec. 31.  
Marion Machine, Foundry & Supply Company. (See Cook, William A., assignor.)  
Marion Steam Shovel Company, The. (See Clutter, C. B., and Russell, assignors.)  
Marion Steam Shovel Company, The. (See Ferguson, Berlin S., assignor.)  
Marion Steam Shovel Company, The. (See Jacoby, B., Shelton, Ferguson, and Jennings, assignors.)  
Marion Steam Shovel Company, The. (See Johnson, Walter W., assignor.)  
Marion Steam Shovel Company. (See Miley, Walter E., assignor.)  
Marion Steam Shovel Company, The. (See Sechrist, Roy H., assignor.)  
Marion Steam Shovel Company, The. (See Shelton, Dwight J., assignor.)  
Marion Steam Shovel Company, The. (See Shelton, D. J., and Weber, assignors.)  
Maris, Fred D., Newberg, Oreg. Door latch. 1,715,300; May 28.  
Mark, Albert J., assignor, by mesne assignments, to J. Levy, Boston, Mass. Hand stamp. 1,710,633; Apr. 23.  
Mark, Hobart, Spencerville, Ohio. Book end. 1,704,011; Mar. 5.  
Markatos, Spiros C., New York, N. Y. Steaming apparatus. 1,717,110; June 11.  
Markee, Reuel T., Philadelphia, Pa. Textile-fabric-making machine. 1,717,990; June 18.  
Markee, Reuel T., Philadelphia, Pa. Automobile roof-lining construction. 1,741,946; Dec. 31.  
Markel Electric Products, Inc. (See Balk, Joseph J., assignor.)  
Markel Electric Products, Inc. (See Ellinger, Albert E., assignor.)  
Markel Electric Products, Inc. (See Hasenstab, Bernhard, assignor.)  
Markel Electric Products, Inc. (See Logan, Charles W., assignor.)  
Markel Electric Products, Inc. (See Villaret, Gustave E., assignor.)  
Markel Electric Products, Inc. (See Yokel, Frank, assignor.)  
Markem Machine Company. (See Brodfuehrer, Bismarck B., assignor.)  
Markey, George T., assignor to James Manufacturing Company, Fort Atkinson, Wis. Stock waterer. 1,711,800; May 7.  
Markey, George T., and J. B. Olson, assignors to James Manufacturing Company, Fort Atkinson, Wis. Grain germinator or hydrosoaker. 1,724,949; Aug. 20.  
Markham, Henry C., assignor of one-half to W. Horwitz, Houston, Tex. Shutter for moving-picture projectors. 1,734,221; Nov. 5.  
Markland, Wyllis H., Altoona, Pa., assignor to W. H. Foster, New York, N. Y. Surfacing machine. 1,716,861; June 11.  
Marklein, Otto, assignor to W. R. Bishop, Brooklyn, N. Y. Vehicle. 1,711,059; Apr. 30.  
Markley, Edward H., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Tube-cleaning apparatus. 1,704,364; Mar. 5.  
Markman, Harvey C., Denver, Colo. Game apparatus. 1,704,619; Mar. 5.  
Markman, John, Forreston, Ill. Weighing machine. 1,703,401; Feb. 26.  
Markman, John, Forreston, Ill. Drainage pump. 1,734,440; Nov. 5.  
Markman, Simeon K., Oak Park, Ill., assignor to R. M. Lackey, Cohoes, N. Y. Handle bag or envelope. 1,718,298; June 25.  
Markoe, James, Harvey, Ill. Gas engine. 1,725,989; Aug. 27.  
Markon Manufacturing Co. Inc. (See Konoff, Alexander, assignor.)  
Markon Manufacturing Co. (See Marcus, Samuel, assignor.)  
Markon Manufacturing Co., Inc. (See Marcus, S., and Konoff, assignors.)  
Markon Manufacturing Co. Inc. (See Wilhelm, John H., assignor.)  
Markovetz, Edward S., Beebe, S. Dak. Intake-manifold heater. 1,706,242; Mar. 19.  
Markovitch, Grecha. (See Lozoff, Israel, assignor.)  
Marks, Donn O., assignor to G. Gartling, Los Angeles, Calif. Electromagnetic valve. 1,708,276; Apr. 9.  
Marks, Elly et al. (See Walker, Horace, assignor.)  
Marks, Herbert E., Sewickley, Pa. Slab-ceiling construction. 1,739,977; Dec. 17.  
Marks, John G. D. (See Hegray, Henri, assignor.)  
Marks, Marvin F., Albany, Ind. Corner-bead tool. 1,740,825; Dec. 24.  
Marks, Shuford B. (See McCormack, George B., assignor.)  
Markstrum, John A., assignor to Continental Tool Works, Detroit, Mich. Rotary cutter. 1,713,847; May 21.  
Markus, Benjamin, assignor to H. P. Watson, Minneapolis, Minn. Drinking-water cooling and dispensing apparatus. 1,708,184; Apr. 9.  
Markwell Manufacturing Co. (See Obstfeld, Lou, assignor.)  
Marland, Arthur, assignor to John Wood Manufacturing Company, Conshohocken, Pa. Manual holder for arc welding electrodes. 1,717,342; June 11.  
Marlatt, Clyde D., Newark, and W. H. Dickerson, deceased, East Orange, N. J., C. H. Dickerson, executrix, New York, N. Y.; said Marlatt assignor to Industrial Waste Products Corporation, New York, N. Y. Chrome tanning material and making same. 1,698,505; Jan. 8.  
Marlatt, George E., Pasadena, Calif. Typographical slug-casting machine. 1,701,578; Feb. 12.  
Marlatt, George E., Pasadena, Calif. Typographical assembler. 1,701,579; Feb. 12.



- Marlatt, Russell M., Port Murray, N. J. Ladder. 1,727,211; Sept. 3.
- Marler, Roy M., Lakeland, Fla. Pruning shears. 1,716,180; June 4.
- Marles, Henry, Detroit, Mich. Bearing. 1,734,222; Nov. 5.
- Marles, Henry, London, England, assignor to The Marles Steering Gear Company of America, Incorporated, New York, N. Y. Steering gear for mechanically-propelled vehicles and the like. 1,720,911; July 16.
- Marles Steering Gear Company of America, The. (See Marles, Henry, assignor.)
- Mailiere, Edmund, La Salle, Ill. Securing device. 1,735,770; Nov. 12.
- Marmet, Robert. (See Wiig, Gustav A., assignor.)
- Marmion, Louis G., Villa Park, Ill., assignor to The Vitrolite Company. Tile. Des. 77,649; Feb. 5.
- Marmonier, Victor, Lyon, France. Apparatus for carrying out table service mechanically. 1,717,235; June 11.
- Marnell, Patrick. (See Maril, H. A., and Marnell.)
- Maronna, Vincenzo, New York, N. Y. Coat and jacket and constructing the same. 1,697,959; Jan. 8.
- Maronna, Vincenzo, New York, N. Y. Constructing the sleeves of garments. 1,739,797; Dec. 17.
- Marosy, Dave, New York, N. Y. Water-operated massaging device. 1,716,143; June 4.
- Marqua, Edward C., and S. J. Callahan, Kansas City, Mo. Ceiling-rud hanger. 1,739,079; Dec. 10.
- Marquardt, Max J., Portland, Oreg. Rug-display rack. 1,706,069; Mar. 19.
- Marquette Manufacturing Company. (See Nilson, Leonard D., assignor.)
- Marquette Manufacturing Company. (See Nordgren, Algot W., assignor.)
- Marquette Manufacturing Company. (See Nordgren, A. W., and Burandt, assignors.)
- Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Mandrel. 1,726,843; Sept. 3.
- Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Building clincher tires. 1,730,583; Oct. 8.
- Marquette Tool & Manufacturing Company. (See Nelson, John, assignor.)
- Marquette Tool & Mfg. Co. (See Rode, Fredrich J., assignor.)
- Marquis, Sydney. (See Bartlett, W. D., and Marquis.)
- Marquist, Andrew, Saugatuck, Mich., assignor of one-half to E. F. Marquist, Chicago, Ill. Raincoat. 1,740,614; Dec. 24.
- Marquist, Edwin F. (See Marquist, Andrew, assignor.)
- Marr, Robert A., Norfolk, Va. Leather substitute and process of making. 1,713,846; May 21.
- Marr, Robert A., Norfolk, Va. Pulp and fiber product and making same. 1,717,794; June 18.
- Marr, Robert A., Norfolk, Va. Digesting cellulosic and ligneous materials. 1,717,795; June 18.
- Marr, Robert A., Norfolk, Va. Making pulp. 1,717,796; June 18.
- Marr, Robert A., Norfolk, Va. Producing pulp. 1,717,797; June 18.
- Marr, Robert A., Norfolk, Va. Making pulp. 1,717,798; June 18.
- Marr, Robert A., Norfolk, Va. Pulp product. 1,717,799; June 18.
- Marr, Robert A., Norfolk, Va. Treating cane material. 1,717,800; June 18.
- Marr, Steven, Trenton, N. J., assignor of one-half to P. Molnar, Cleveland, Ohio. Catamenial bandage. 1,733,997; Oct. 29.
- Marrable, Harry A., Hoboken, N. J. Copyholder. 1,719,667; July 2.
- Marran, Vincent P., Holyoke, Mass. Tractor-driven snowplow. 1,717,571; June 18.
- Marran, Vincent P., Holyoke, Mass. Tractor-driven plow. 1,722,704; July 30.
- Marrec Limited. (See Marrec, Yves, assignor.)
- Marrec, Yves, London, assignor to Marrec Limited, London, E. C., England. Selective and antiparasitic receiving system. 1,718,794; June 25.
- Marrison, Warren A., Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Constant frequency wave source. 1,702,568; Feb. 19.
- Marrison, Warren A., Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Subharmonic frequency producer. 1,733,614; Oct. 29.
- Mars, Ernst P., assignor to Tribune Company, Chicago, Ill. Artificial stone. 1,718,827; June 25.
- Marsal, Paul A., Lakewood, Ohio, assignor to National Carbon Company, Inc. Nitrocellulose lacquer for sealing tops of dry cells. 1,711,739; May 7.
- Marshall, Rudolph. (See Hoppner, Robert, assignor.)
- Marschneider, Karl, and B. Frisch, assignors to A. Borsig G. m. b. H., Berlin-Tegel, Germany. Valve mechanism. 1,705,487; Mar. 19.
- Marschke, Berthold V. (See Marschke, Reinhold B., assignor.)
- Marschke, Paul G. (See Marschke, Reinhold B., assignor.)
- Marschke, Reinhold B., St. Paul, Minn. Folding stair. 1,731,980; Oct. 15.
- Marschke, Reinhold B., St. Paul, Minn. Window. 1,741,998; Dec. 31.
- Marschke, Reinhold B., St. Paul, Minn., assignor to P. G. Marschke, Embden, N. Dak. Folding stair structure. 1,700,904; Feb. 5.
- Marschke, Reinhold B., assignor to B. V. Marschke, St. Paul, Minn. Collapsible and disappearing stair. 1,721,521; July 23.
- Marschner, Martin. (See von Girssewald, C., Siegens, and Marschner.)
- Marsden, Alfred W., Lykens, Pa. Vehicle brake-equalizing system. 1,737,254; Nov. 26.
- Marsden, Fred, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread control for loom thread cutters. 1,741,324; Dec. 31.
- Marsden, James W., San Francisco, Calif. Lock. 1,698,761; Jan. 15.
- Marsden, James W., San Francisco, Calif. Weather strip. 1,731,343; Oct. 15.
- Marsden, Jeremiah, Bellevue, Idaho. Fly-exit screen. 1,699,402; Jan. 15.
- Marsden, John E. (See Milliken, John A., assignor.)
- Marsden, Sam F. (See Place, Charles E. S., assignor.)
- Marsene Products Co. (See Kratz, Edouard M., assignor.)
- Marsh, Charles T., Springfield, Mass. Filling device for lighters. 1,734,388; Nov. 5.
- Marsh, Charles T., Vancouver, British Columbia, Canada. Finger-exercising device. 1,736,930; Nov. 26.
- Marsh, Clarence W., Greenwich, Conn. Electric cell. 1,727,552; Sept. 10.
- Marsh, Clifford M., Glens Falls, N. Y. Front-wheel steer and drive unit for automobiles. 1,724,673; Aug. 13.
- Marsh, Esli A., Chicago, Ill. Bag holder. 1,717,717; June 18.
- Marsh, Frederick L., The Dalles, Oreg. Automobile signal. 1,726,961; Sept. 3.
- Marsh, Hallan N. (See Howard, J. H., and Marsh.)
- Marsh, Hallan N., Los Angeles, Calif. Self-contained gas anchor. 1,697,321; Jan. 1.
- Marsh, Harold, New Bedford, assignor to Draper Corporation, Hopedale, Mass. Thread-tensioning device for automatically-threading loom shuttles. 1,703,513; Apr. 9.
- Marsh, Harry B., Evansville, Ind. Tool handle. 1,724,609; Aug. 13.
- Marsh, Harry M., and R. Stirling, assignors to W. J. Westaway Company Limited, Hamilton, Ontario, Canada. Water-softening filter. 1,718,244; June 25.
- Marsh, Harry V., Chicago, Ill. Box. 1,704,987; Mar. 12.
- Marsh, Henry, assignor to Purity Bakeries Service Corporation, Chicago, Ill. Confectionery holder. 1,723,944; Aug. 6.
- Marsh, Jas. P., & Company. (See Rose, Alexander D., assignor.)
- Marsh, Jay R. (See Smith, R. R., and Marsh.)
- Marsh, John T. (See Foulds, R. P., Marsh, and Wood.)
- Marsh, Louis S. (See Monteith, C. N., and Marsh.)
- Marsh, Malcolm C. (See Jowett, P., and Marsh.)
- Marsh, Miles E., Oklahoma City, Okla. Interchangeable hanging price tag. 1,712,966; May 14.
- Marsh, Peter M., Springfield, and E. B. Ward, Mittineague, Mass. Footwear. 1,704,299; Mar. 5.
- Marsh, Rutherford H., Fairview, Pa. Electric washing machine. 1,739,405; Dec. 10.
- Marsh, Vincent, Dickinson, N. Dak. Protective device for harness. 1,712,774; May 14.
- Marsh, William J. (See Hooker, A. H., and Marsh.)
- Marshak, Isidore, assignor to A. Amittin, Brooklyn, N. Y. Fern stand. Des. 78,527; May 14.
- Marshak, Isidore, assignor to A. Amittin, Brooklyn, N. Y. Fern stand. Des. 78,528; May 14.
- Marshalek, Alois, Milwaukee, Wis. Arch support. 1,723,243; Sept. 17.
- Marshall, Albert E., Baltimore, Md., assignor to Corning Glass Works, Corning, N. Y. Insulator for radio frequency currents. 1,700,066; Jan. 22.
- Marshall, Albert E., assignor to Maryland Pigments Corporation, Baltimore, Md. Making a white-pigment base. 1,728,296; Sept. 17.
- Marshall, Albert T., Petaluma, Calif. Sound-reproducing and picture-exhibiting apparatus. 1,710,994; Apr. 30.
- Marshall, Alfred P., and J. Chesnut, jr., Clearwater, Fla. Changeable indicating device. 1,717,718; June 18.
- Marshall, Alphonse V., Pass Christian, Miss. Water wheel. 1,701,687; Feb. 12.
- Marshall, Andrew J., assignor of one-half to G. W. Mitchell, Harrisburg, Ill. Auto oil-measuring device. 1,698,889; Jan. 15.
- Marshall, Aud R., Yakima, Wash. Swing. 1,707,167; Mar. 26.
- Marshall, Burns H., Brookline, N. H. Decorative wreath for automobile headlights. 1,707,127; Mar. 26.
- Marshall, Charles A. (See Boynton, Jesse L., assignor.)
- Marshall, Clinton E., Brooklyn, N. Y. Clip. 1,719,895; July 9.
- Marshall, Clinton E., Brooklyn, N. Y. Fountain pen. 1,740,189; Dec. 17.
- Marshall, David I., New London, Iowa. Terminal for conductor wires. 1,720,605; July 9.
- Marshall, David O., assignor to Mound City Wood Heel and Mfg. Co., St. Louis, Mo. Heel-grooving machine. 1,727,997; Sept. 10.
- Marshall, David O., assignor to Mound City Wood Heel & Mfg. Co., St. Louis, Mo. Shoe heel. 1,738,715; Dec. 10.
- Marshall, Emma, assignor of one-half to J. Crawford, New Rockford, N. Dak. Cover for shoe heels. 1,730,894; Oct. 8.



- Marshall, Eugene F., et al. (See Lathrop, Asa, assignor.)  
 Marshall Field & Company. (See Dunlop, Isabelle, assignor.)  
 Marshall Field and Company. (See Nelson, Daniel, assignor.)  
 Marshall Field & Company. (See Rau, John W., assignor.)  
 Marshall Field Mills Corporation. (See Clark, Eugene F., assignor.)  
 Marshall, Francis C., Green Bay, assignor to C. A. Lawton Co., De Pere, Wis. Valve mechanism. 1,740,108; Dec. 17.  
 Marshall, Frank O. (See Parke, P., and Marshall.)  
 Marshall, Frederick D., Weybridge, England. Apparatus for the distillation or heat treatment of carbonaceous or other materials. 1,704,092; Mar. 5.  
 Marshall, Frederick D., Weybridge, England. Apparatus for producing coke and gas from solid carbonaceous material. 1,704,093; Mar. 5.  
 Marshall, Frederick D., Weybridge, England. Gas and coke plant apparatus. 1,704,094; Mar. 5.  
 Marshall, Frederick D., Weybridge, England. Producing mixed coal gas and water gas. 1,713,189; May 14.  
 Marshall, Frederick R. H., Thorpe Bay, England. Closure for containers. 1,726,080; Aug. 27.  
 Marshall, George G., and H. S. Booth, Cleveland, Ohio. Alloy. 1,713,766; May 21.  
 Marshall, Harry B., deceased, St. Louis, Mo.; E. W. Terry, administrator, assignor, by mesne assignments, to P. B. Marshall, Chicago, Ill. Gasoline gauge. 1,717,051; June 11.  
 Marshall, Harry W. (See West, Robert, assignor.)  
 Marshall, Henry, Cleveland, Ohio. Saw-sharpening machine. 1,732,132; Oct. 15.  
 Marshall, Holmes, Cleveland Heights, Ohio. Seal lock. 1,700,505; Jan. 29.  
 Marshall, James J., assignor to Canada Machinery Corporation Limited, Galt, Ontario, Canada. Method of and apparatus for forming hook bars. 1,736,715; Nov. 19.  
 Marshall, Joseph P., Cleveland, Ohio. Toy boat. Des. 79,315; Aug. 27.  
 Marshall, Kenneth I., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for sound reproduction. 1,724,099; Aug. 13.  
 Marshall, Laurence K., assignor to Spencer Thermostat Company, Cambridge, Mass. Contact-terminal construction. 1,700,172; Jan. 29.  
 Marshall, Laurence K., assignor to Spencer Thermostat Company, Cambridge, Mass. Metallic thermostat. 1,700,173; Jan. 29.  
 Marshall, Laurence K., West Somerville, assignor to Spencer Thermostat Co., Cambridge, Mass. Temperature regulation. 1,718,748; June 25.  
 Marshall, Laurence K., West Somerville, assignor to Spencer Thermostat Company, Cambridge, Mass. Heat control. 1,718,749; June 25.  
 Marshall, Laurence K., West Somerville, assignor to Spencer Thermostat Company, Cambridge, Mass. Method of Manufacturing bimetallic thermostats. 1,718,750; June 25.  
 Marshall, Leslie H., assignor to The Ohio Brass Company, Mansfield, Ohio. Metallurgical process and product. 1,707,529; Apr. 2.  
 Marshall, Lewis C., Walpole, Mass. Apparatus for slitting piston rings. 1,699,980; Jan. 22.  
 Marshall, Norman, Nashua, N. H., assignor to Remington Arms Company, Inc. Method and apparatus for impregnating paper tubes or other porous articles. 1,711,643; May 7.  
 Marshall, Phoebe B. (See Marshall, Harry B., assignor.)  
 Marshall, Walter C. (See Juneau, C. G., and Marshall.)  
 Marshall-Wells Company. (See Walker, James W., assignor.)  
 Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. All-metal door construction. 1,708,448; Apr. 9.  
 Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Door construction. 1,717,238; June 11.  
 Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Adjustable seat for vehicle bodies. 1,736,503; Nov. 19.  
 Marshall, William, and C. W. Behnke, assignors to Briggs Manufacturing Company, Detroit, Mich. Windshield-regulator mechanism. 1,739,726; Dec. 17.  
 Marshall, William, and E. C. De Smet, assignors to Briggs Manufacturing Company, Detroit, Mich. Door lock. 1,710,231; Apr. 23.  
 Marshall, William, and F. Kiehler, assignors to Briggs Manufacturing Company, Detroit, Mich. Vehicle door latch. 1,700,231; Jan. 29.  
 Marshall, William, and F. Kiehler, deceased, by A. M. Kiehler, executrix, assignors to Briggs Manufacturing Company, Detroit, Mich. Bolt construction. 1,739,685; Dec. 17.  
 Marshall, William, and J. Levandoski, assignors to Briggs Manufacturing Company, Detroit, Mich. Vehicle body construction. 1,710,230; Apr. 23.  
 Marshall, William B. (See Davison, W. F., and Marshall.)  
 Marshalltown Heater Company. (See Williams, Lester, assignor.)  
 Marsik, Albert W., New York, N. Y. Edge-trimming machine. 1,708,768; Apr. 9.  
 Marsilius, Newman M., assignor, by mesne assignments, to The Products Machine Company, Bridgeport, Conn. Die-shearing press. 1,721,276; July 16.  
 Marsland, Roland, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-pressure-developing system. 1,728,277; Sept. 17.  
 Marsland, Roland, Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Packing. 1,732,761; Oct. 22.  
 Marsteller, Lester O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Telephone plug. 1,697,197; Jan. 1.  
 Marsteller, Lester O., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wave filter. 1,725,154; Aug. 20.  
 Marsteller, Lester O., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Antenna support. 1,732,690; Oct. 22.  
 Marsten, Ole J., Bethlehem, Pa., assignor to Bethlehem Steel Company. Bridge falsework tower. 1,733,505; Oct. 29.  
 Marston, Howard, Claremont, N. H., assignor to Sullivan Machinery Company. Attachment for percussive tools. 1,730,822; Oct. 8.  
 Marston, Howard F., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)  
 Marston, Richard E., Fairport, assignor, by mesne assignments, to J. T. Bryan, Garden City, N. Y. Vehicle suspension construction. 1,709,991; Apr. 23.  
 Mart, Leon T., Kansas City, Mo. Nonclogging spray nozzle. 1,710,832; Apr. 30.  
 Mart, Leon T., Kansas City, Mo. Louver post. 1,728,498; Sept. 17.  
 Mart, Leon T., Kansas City, Mo. Steam superheater. 1,729,837; Oct. 1.  
 Martel, Edgar J. (See Caldon, G. E., and Martel.)  
 Martell, Charles, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling conductor. 1,722,436; July 30.  
 Martell, Charles, Cicero, and B. A. Hagen, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for applying material to cores. 1,726,359; Aug. 27.  
 Martens, Alfred D. (See Beekley, W. C., and Martens.)  
 Martens, Frederick J., Milwaukee, and C. O. Thompson, South Milwaukee, Wis. Propeller. 1,715,071; May 28.  
 Martens, Moritz, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Resistance-measuring instrument. 1,740,183; Dec. 17.  
 Marter, Richard G., assignor to National Enameling & Stamping Co., Milwaukee, Wis. Humidifying container for radiators. 1,710,318; Apr. 23.  
 Martha, Oscar W., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Coffeepot or similar article. Des. 77,848; Feb. 26.  
 Marti, Charles L., West Orange, N. J. Panel for radio receiving sets. Des. 78,959; July 9.  
 Marti, Othmar K., Merchantville, assignor to American Brown Boveri Electric Corporation, Camden, N. J. Driving mechanism. 1,728,297; Sept. 17.  
 Marti, Roy, Church, Iowa. Attachment for cultivators. 1,701,414; Feb. 5.  
 Martin, Abraham G., Jeannette, Pa. Nut lock. 1,737,317; Nov. 26.  
 Martin Air Dog Company. (See Ferris, Ervie A., assignor.)  
 Martin Air Dog Company. (See Schnell, George F., assignor.)  
 Martin, Albert, New York, N. Y. Ornamenting foodstuffs. 1,710,369; Apr. 23.  
 Martin, Alexander, Oakland, Calif. Apparatus for operating garage doors. 1,700,848; Feb. 5.  
 Martin, Alfred M., Chicago, Ill. Supporting means for book-type binder. 1,722,810; July 30.  
 Martin, Alfred M., Chicago, Ill. Multiple-unit bookholder. 1,722,811; July 30.  
 Martin, Alfred M., Chicago, Ill. Binder. 1,722,812; July 30.  
 Martin, Alfred M., Chicago, Ill. Latching means for binders. 1,733,548; Oct. 29.  
 Martin, Alfred M., Chicago, Ill. Latch means for loose-leaf binders. 1,733,814; Oct. 29.  
 Martin, Alfred M., Chicago, Ill. Latch means for binders. 1,733,894; Oct. 29.  
 Martin, Alphonse, Ogdensburg, N. Y. Electric water heater. 1,698,801; Jan. 15.  
 Martin, Alphonse, Ogdensburg, and F. H. Finnegan, Wanakena, N. Y. Electric liquid heater. 1,734,335; Nov. 5.  
 Martin, Andrew, and J. Johnston, Jr., Escondido, Calif. Producing fertilizer compound. 1,733,745; Oct. 29.  
 Martin, Arthur D., Frankfort, Ky. Radiocabinet. Des. 77,491; Jan. 15.  
 Martin Automatic Fishing Reel Company. (See Maury, Alfred D., assignor.)  
 Martin, Berdene L., Humeston, Iowa. Railroad mowing machine. 1,711,853; May 7.  
 Martin Brothers Electric Company, The. (See Martin, Wendell L., assignor.)  
 Martin, Bruno, Saginaw, Mich. Blowtorch. 1,709,404; Apr. 16.  
 Martin, Bruno, Saginaw, Mich. Blowtorch. 1,711,571; May 7.  
 Martin, Cal. Lincoln, Ill. Rack. 1,698,762; Jan. 15.  
 Martin, Charles A., Chicago, Ill. Control system. 1,697,432; Jan. 1.  
 Martin, Charles B., Bartlesville, Okla. Pump. 1,697,430; Jan. 1.



- Martin, Charles B., Bartlesville, Okla. Pump. 1,697,431; Jan. 1.
- Martin, Charles R., Wauwatosa, and H. V. Nye, West Allis, assignors to Allis-Chambers Manufacturing Company, Milwaukee, Wis. System of distribution. 1,735,690; Nov. 12.
- Martin, Claire L. (See Martin, Leonard J. and C. L.)
- Martin, Claude J. (See Immel, W. P., and Martin.)
- Martin, Clarence W. (See Dunn, F. E., and Martin.)
- Martin-Copeland Company. (See Jacobson, B. J., and Martin, assignors.)
- Martin, De Loss K. (See Espenschied, L., Bown, and Martin.)
- Martin, De Loss K. (See Espenschied, L., and Martin.)
- Martin, De Loss K., West Orange, N. J., assignor to American Telephone and Telegraph Company. Reduction of fading of radiosignals. 1,719,845; July 9.
- Martin, De Loss K., West Orange, N. J., assignor to American Telephone and Telegraph Company. Reduction of fading of radiosignals. 1,719,896; July 9.
- Martin, De Loss K., West Orange, N. J., assignor to American Telephone and Telegraph Company. Multiplex radio transmitting system. 1,721,567; July 23.
- Martin, Douglas J., assignor to Martin Motors, Inc., New York, N. Y. Internal-combustion engine. 1,734,867; Nov. 5.
- Martin, Earl, Santa Ana, assignor to Ulmer Machinery Corporation, Los Angeles, Calif. Shaft coupling. 1,716,593; June 11.
- Martin, Earl, Los Angeles, Calif. Awning-actuating mechanism. 1,740,190; Dec. 17.
- Martin, Earl L., Santa Ana, Calif. Eye-exercising apparatus. 1,702,700; Feb. 19.
- Martin, Earle E., Cleveland, Ohio. Preparing mats for use in making printing plates. 1,726,747; Sept. 3.
- Martin, Edouard H. (See Lemasson, R. P. F., and Martin.)
- Martin, Edward C., assignor to Sheppard & Meyers, Inc., Hanover, Pa. Arch-supporting sole. 1,739,406; Dec. 10.
- Martin, Ernest, Aix, France. Manufacturing process for aluminous cements. 1,716,527; June 11.
- Martin, Fay H., assignor to Woonsocket Machine & Press Co., Inc., Woonsocket, R. I. Fly frame. 1,717,343; June 11.
- Martin, Fred L., E. F. Hughes, and J. C. McNellis; said McNellis assignor to D. J. Hughes, De Graff, Minn. Grain door. 1,707,064; Mar. 26.
- Martin, Frederic, sr., Columbus, Ohio. Washboards. 1,712,390; May 7.
- Martin, Frederick C., Delphi, Ind. Speed boat. Des. 77,849; Feb. 26.
- Martin, Frederick C., assignor to Eastman Kodak Company, Rochester, N. Y. Package of sensitized material for X-ray purposes. 1,698,058; Jan. 8.
- Martin, Frederick H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stocking protector. 1,708,144; Apr. 9.
- Martin, Frederick W., Brooklyn, N. Y., and M. H. Roberts, Englewood, N. J., assignors to Franklin Railway Supply Company. Flexible connection. 1,727,126; Sept. 3.
- Martin, George, et al. (See Grosskopf, William, assignor.)
- Martin, George C., Los Angeles, Calif. Shock absorber. 1,709,359; Apr. 16.
- Martin, George C., Los Angeles, Calif. Rowing machine. 1,727,657; Sept. 10.
- Martin, George C., Los Angeles, Calif. Pipe-making machine. 1,736,793; Nov. 26.
- Martin, George W., San Francisco, Calif. Bean-cleaning machine. 1,740,933; Dec. 24.
- Martin, Glenn L. Company, The. (See Andrade, Andrew A., assignor.)
- Martin, Glenn L., Company, The. (See Leisy, Clifford J., assignor.)
- Martin, Glenn L., Company, The. (See Loudy, Flavius E., assignor.)
- Martin, Glenn L., Company, The. (See Morton, Charles K., assignor.)
- Martin, Glenn L., Company, The. (See Van Dusen, Charles A., assignor.)
- Martin, Harold, Portsmouth, England. Manometer. 1,719,067; July 2.
- Martin, Harold, Southsea, England. Resistance element. 1,732,275; Oct. 22.
- Martin, Harry, Chicago, Ill. Raincoat. Des. 78,913; July 2.
- Martin, Harry, Brooklyn, N. Y. Sanitary container. 1,709,625; Apr. 16.
- Martin, Herbert E., Cumberland, Md., assignor to Celanese Corporation of America. Extracting acids from solutions. 1,717,719; June 18.
- Martin, Hugh E., Madison, Wis. Window guard. 1,726,188; Aug. 27.
- Martin, James, New York, N. Y. Tire. Des. 78,694; June 4.
- Martin, James, London, England. Frame for traveling goods carriers. 1,729,663; Oct. 1.
- Martin, James S., assignor to Sangamo Electric Company, Springfield, Ill. Correcting temperature errors in electric meters. 1,722,758; July 30.
- Martin, James V., Garden City, N. Y. Commercial auto. 1,712,151; May 7.
- Martin, James V., Garden City, N. Y. Type of seaplane. 1,728,621; Sept. 17.
- Martin, James W., jr., Yonkers, assignor, by mesne assignments, to Dryice Equipment Corporation, New York, N. Y. Refrigerated package and method. 1,735,082; Nov. 12.
- Martin, James W., jr., Yonkers, assignor, by mesne assignments, to Dryice Equipment Corporation, New York, N. Y. Refrigerated package with permeable insulation and method. 1,735,832; Nov. 12.
- Martin, John B., et al., receivers. (See Paden, William L., assignor.)
- Martin, John B., Chicago, Ill. Device for positioning the reinforcement of concrete structures. 1,708,277; Apr. 9.
- Martin, John F. (See Curtis, L. F., and Martin.)
- Martin, John F., assignor to American Bosch Magneto Corporation, Springfield, Mass. Distributor plate. 1,739,555; Dec. 17.
- Martin, John H., Baldwin, N. Y. Shrinking and felting animal fibers. 1,727,374; Sept. 10.
- Martin, John H., Baldwin, N. Y. Shrinking and felting animal fibers. 1,727,375; Sept. 10.
- Martin, John H., Baldwin, N. Y. Preparation of fur for shrinking and felting. 1,736,829; Nov. 26.
- Martin, John I. (See Johnston, C. A., and Martin.)
- Martin, John M., Mesquite, assignor to Dallas Aeroplane Manufacturing Corporation, Dallas, Tex. Propeller for aeroplanes. 1,714,917; May 28.
- Martin, Joseph, assignor to United States Cabinet Bed Co., New York, N. Y. Bedspring-edge-supporting device. 1,699,981; Jan. 22.
- Martin, Joseph, assignor to United States Cabinet Bed Co., New York, N. Y. Control mechanism for head sections. 1,706,579; Mar. 26.
- Martin, Joseph, assignor to United States Cabinet Bed Co., New York, N. Y. Combination single and double couch bed. 1,717,516; June 18.
- Martin, Joseph, assignor to United States Cabinet Bed Co., New York, N. Y. Combination single and double bed. 1,732,522; Oct. 22.
- Martin, Joseph, assignor to United States Cabinet Bed Co., New York, N. Y. Day bed. 1,737,604; Dec. 3.
- Martin, Karl, Rathenow, Germany. Lens. 1,706,177; Mar. 19.
- Martin, Karl, Rathenow, Germany. Color cinematography. 1,728,426; Sept. 17.
- Martin, Kingsley L. (See Danks, Alfred C., assignor.)
- Martin, Kingsley L. (See Danks, A. C., and Martin.)
- Martin, Laurence C. (See Jacobson, B. J., and Martin.)
- Martin, Leonard J. and C. L., Greenfield, Calif. Composite crank shaft. 1,717,572; June 18.
- Martin, Lewis O., assignor of one-half to J. H. Ferris, San Francisco, Calif. Automobile construction. 1,697,198; Jan. 1.
- Martin, Louis, Cincinnati, Ohio. Air and liquid-fuel vaporizing mixing and feeding device. 1,716,074; June 4.
- Martin, Louis L., Toronto, Ontario, Canada. Spraying distributor. 1,715,140; May 28.
- Martin, Madie P., administratrix. (See Martin, Robert E.)
- Martin, Mark H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Truck side-bearing structure. 1,706,494; Mar. 26.
- Martin, Mark H., Baltimore, assignor to The Symington Company, New York, N. Y. Cast-steel side frame. 1,718,470; June 25.
- Martin, Mark H., assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Railway-car-truck bolster. 1,731,470; Oct. 15.
- Martin, Mark H., assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Truck bolster and side bearing. 1,732,102; Oct. 15.
- Martin, Mark H., Reading, Pa., assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Absorption mechanism. 1,732,133; Oct. 15.
- Martin, Mark H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Bolster with shock-absorption mechanism. 1,732,134; Oct. 15.
- Martin, Mervin. (See Bebensee, M., Children, and Martin.)
- Martin, Melvin S. (See Graves, F., and Martin.)
- Martin Motors, Inc. (See Martin, Douglas J., assignor.)
- Martin, Nelson, Bowling Green, Ky. Illuminated name sign for automobiles. 1,737,858; Dec. 3.
- Martin, Orrin A., San Francisco, Calif. Game board. Des. 78,216; Apr. 9.
- Martin-Parry Corporation. (See Callahan, John A., assignor.)
- Martin-Parry Corporation. (See Jeffers, Clarence E., assignor.)
- Martin-Parry Corporation. (See Small, Frederick M., assignor.)
- Martin, Perry S., Harrisonburg, Va. Multiple-deck incubator. 1,708,449; Apr. 9.
- Martin, Philip J., Detroit, Mich. Vehicle for children. 1,698,165; Jan. 8.
- Martin, Philip J., Elizabeth, N. J. Cable grip. 1,730,155; Oct. 1.
- Martin, Philip J., Elizabeth, N. J. Cable grip. 1,732,410; Oct. 22.
- Martin, Robert E., Portersville, Calif. Cultivator. 1,710,232; Apr. 23.
- Martin, Robert E., deceased, by M. P. Martin, Jackson, Miss., administratrix. Expansion joint. 1,737,318; Nov. 26.



- Martin, Robert E. C., Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift pumping system. 1,740,742; Dec. 24.
- Martin-Rockwell Corporation. (See Blomquist, Guy L., assignor.)
- Martin, Stephen M., Bridgeport, Conn., assignor to Holmes Products, Inc., New York, N. Y. Refrigerator box. Des. 78,961; July 9.
- Martin, Traugott, Paterson, N. J. Narrow-ware loom. 1,741,641; Dec. 31.
- Martin, Wallace B., Cleveland Heights, Ohio. Reclaiming railway-car axles. 1,739,248; Dec. 10.
- Martin, Wendell L., assignor to The Martin Brothers Electric Company, Cleveland, Ohio. Drier. Re17,236; Mar. 12.
- Martin, Wendell L., assignor to The Martin Brothers Electric Company, Cleveland, Ohio. Drier. Re17,237; Mar. 12.
- Martin, Wendell L., assignor to The Martin Brothers Electric Company, Cleveland, Ohio. Steamer. 1,723,247; Aug. 6.
- Martin, Wendell L., assignor to The Martin Brothers Electric Company, Cleveland, Ohio. Drier. 1,727,212; Sept. 3.
- Martin, William C., Milwaukee, Wis., assignor of one-fourth to J. H. Lee, Oak Park, Ill. Windshield cleaner. 1,706,125; Mar. 19.
- Martin, William C., Milwaukee, Wis., assignor of one-fourth to J. H. Lee, Oak Park, Ill. Windshield cleaner. 1,723,139; Aug. 6.
- Martin, William H., Chappaqua, N. Y., and M. E. Strieby, Milburn, N. J., assignors to American Telephone and Telegraph Company. Microphone mounting. 1,735,905; Nov. 19.
- Martin, William L., Sanford, Colo. Frying pan. 1,728,354; Sept. 17.
- Martin, William L., assignor to General Motors Corporation, Detroit, Mich. Vehicle brake. 1,721,568; July 23.
- Martin, William M., and C. N. Church, Burlington, N. J. Reconditioning metal molds. 1,717,720; June 18.
- Martin, William P. (See Schwartz, R. L., and Martin.)
- Martincich, Cillo, Philadelphia, Pa. Automatic stoker. 1,733,746; Oct. 29.
- Martindale, Charles A. (See Bradshaw, S. S., and Martindale.)
- Martindell, Frank, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for coating strand material. 1,734,737; Nov. 5.
- Martine, A. R., Company, The. (See Corbett, Carl C., assignor.)
- Martineau, Clarence R., Albany, N. Y. Check-protecting device. Re17,241; Mar. 19.
- Martineau, Edward J., Seattle, Wash. Ice-cream dipper. 1,721,045; July 16.
- Martinelli, Frank, and E. Acker, New York, N. Y. Perspective drawing device. 1,705,330; Mar. 12.
- Martinet, André, Paris, France, assignor to Société Générale des Compteurs de Voitures, La Condamine, Paris, France. Taximeter apparatus. 1,729,174; Sept. 24.
- Martinet, Eugene F. (See Lawrence, C. B., and Martinet.)
- Martinet, Guy M. (See Krell, G., and Martinet.)
- Martinet, Wendell P., San Francisco, Calif. Pliers. 1,714,387; May 21.
- Martinez, Jesus, et al. (See Cantú, Jesus, assignor.)
- Martinez, Miguel P., New York, N. Y. Electric station indicator. 1,741,371; Dec. 31.
- Martinez, Nicolas, Lerida, Spain. Boot cleaning and polishing machine. 1,735,771; Nov. 12.
- Martinez, Roberto H., Habana, Cuba. Tank. 1,721,401; July 16.
- Martini & Hüneke Maschinenbau-Aktiengesellschaft. (See Hurlbrink, Ernst, assignor.)
- Martini, Martin M., New Fairfield, Conn. Guard for gutters. 1,732,058; Oct. 15.
- Martini, Robert, Chicago, Ill. Radio receiver control mechanism. 1,735,972; Nov. 19.
- Martini, Valentine J., Niagara Falls, N. Y. Wire cutter. 1,709,675; Apr. 16.
- Martiniere, Nicholas G. (See Seward, E. A., and Martiniere.)
- Martinkevich, Valentine, New York, N. Y. Gem or stone setting. 1,740,191; Dec. 17.
- Martinsen, Leonard C., Kimballton, Iowa. Motor-vehicle driving mechanism. 1,707,635; Apr. 2.
- Martinson, Ole T., Chicago, and O. J. Martinson, River Forest, Ill. Holding block for scraper excavating buckets. 1,732,942; Oct. 22.
- Martinson, Oscar J. (See Martinson, Ole T., and O. J.)
- Martland, Robert W., Jr., Berkeley, assignor to Pacific Radiator, Oakland, Calif. Leaf holder for books. 1,702,787; Feb. 19.
- Martling, Merrifield G., U. S. Army. Tangential separator. 1,698,101; Jan. 8.
- Martocello, Joseph A., Philadelphia, Pa. Aerating system for ice cans. 1,706,580; Mar. 26.
- Martocello, Joseph A., Philadelphia, Pa. Off-center bracket for ice cans. 1,739,978; Dec. 17.
- Martocello, Joseph A., Philadelphia, Pa. System for aerating ice cans. 1,739,979; Dec. 17.
- Martois, Waldo E., Lynwood, Calif. Mechanical movement. 1,712,927; May 14.
- Marton, Charles T. (See Bareham, Harry J., assignor.)
- Marton, Charles T., Rochester, N. Y. Traffic signal. 1,699,301. Jan. 15.
- Martorell, Joseph, Niagara Falls, N. Y. Valve. 1,728,500; Sept. 17.
- Martus, Martin L., Woodbury, and E. H. Becker and J. G. Ross, Waterbury, Conn. Primary battery. 1,706,895; Mar. 26.
- Martus, Martin L., Woodbury, E. H. Becker, and J. G. Ross, Waterbury, Conn. Primary battery. 1,725,716; Aug. 20.
- Marty, John M., Jr., Cleveland, Ohio. Expansile reamer. 1,697,509; Jan. 1.
- Marty, René H. C. (See Guyon, Y., and Marty.)
- Martyn, Gertrude E., executrix. (See Martyn, Thomas G.)
- Martyn, Isaac, Tulsa, Okla. Violin tuner. 1,726,849; Sept. 3.
- Martyn, Thomas G., deceased; G. E. Martyn, executrix, Fordsburg, Johannesburg, South Africa. Apparatus for separating the constituents of pulp. 1,709,676; Apr. 16.
- Martyn, Thomas G., deceased, by G. E. Martyn, executrix, Fordsburg, Johannesburg, South Africa. Sorting pulp. 1,724,100; Aug. 13.
- Martzloff, Armand, Versailles, assignor to Société Anonyme des Automobiles "Unic," Puteaux, Seine, France. Brake-operating device. 1,740,363; Dec. 17.
- Marvel Carburetor Company. (See Kirby, Charles H., assignor.)
- Marvel Carburetor Company. (See Molony, Donald P., assignor.)
- Marvel Carburetor Company. (See Redmond, Albert G., assignor.)
- Marvel Device Corporation, The. (See Rusak, Alexander J., assignor.)
- Marvin, Harry N., Rye, N. Y. Radio apparatus and operating the same. 1,704,754; Mar. 12.
- Marvin, Peter C., Elmira Heights, N. Y. Cleaner. 1,711,572; May 7.
- Marvin, Richard H., assignor to The R. Thomas & Sons Company, East Liverpool, Ohio. Insulator. 1,733,067; Oct. 22.
- Marvin, W. B., Manufacturing Company. (See Johnson, William M., assignor.)
- Marvin, W. B., Manufacturing Company, The. (See Ritter, John J., assignor.)
- Marvin, W. H., Company, The. (See Johnson, William M., assignor.)
- Marx, Carl, Chicago, Ill., assignor of one-half to R. Weiss, New York, N. Y. Preparation of concentrated onion juice. Re17,324; June 11.
- Marx, Davis H., Brooklyn, N. Y. Mechanically-operated toy. 1,700,232; Jan. 29.
- Marx, Frederick P., St. Louis, Mo. Shank support. 1,717,721; June 18.
- Marx, George G., Detroit, Mich. Grate-bar-shaking and clinker-crushing apparatus. 1,741,062; Dec. 24.
- Marx, Karl, K. Brodersen, and K. Bittner, Dessau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of agents for emulsifying, purifying, wetting, or the like by sulphonation. 1,708,103; Apr. 9.
- Marx, Louis, New York, N. Y. Toy. Des. 78,642; May 28.
- Marx, Louis, New York, N. Y. Amusement device. 1,701,503; Feb. 12.
- Marx, Louis, New York, N. Y. Acrobatic racing toy. 1,703,117; Feb. 26.
- Marx, Louis, New York, N. Y. Parade-simulating toy. 1,704,012; Mar. 5.
- Marx, Louis, New York, N. Y. Acrobatic toy. 1,725,536; Aug. 20.
- Marx, Richard, Philadelphia, Pa. Loom. 1,704,620; Mar. 5.
- Marx, Robert D., Brooklyn, N. Y. Truck. 1,729,667; Oct. 1.
- Marx, Robert J., London, England. Clarification of liquids and the recovery of solids therefrom. 1,717,111; June 11.
- Marx, Stephen J. (See Dodson, H. S., and Marx.)
- Marx, W., & Co. (See Scholz, Richard, assignor.)
- Maryland Baking Company. (See Rolker, Edwin, assignor.)
- Maryland Pigments Corporation. (See Marshall, Albert E., assignor.)
- Marzahn, Heinrich, et al. (See Wagener, Hans, assignor.)
- Marzolf, John A., Seattle, Wash. Door operator. 1,736,931; Nov. 26.
- Mas, George N., Washington, D. C. Bottle. Des. 77,617; Jan. 29.
- Mas, George N., Washington, D. C. Bottle. Des. 77,618; Jan. 29.
- Mas, George N., Washington, D. C. Bottle. Des. 77,619; Jan. 29.
- Mas, George N., Washington, D. C. Bottle. Des. 78,167; Apr. 2.
- Mas, George N., Washington, D. C. Bottle. Des. 78,934; July 9.
- Mas, George N., Washington, D. C., assignor, by mesne assignments, to J. T. Dowling and G. R. Sappington, trustees. Bottle. Des. 77,850; Feb. 26.
- Mascarucci, Giuseppe, Turin, assignor to Safat Società Anonima, Fabbrica Armi-Torino, Torino, Italy. Automatic firearm with recoiling barrel and without movable breech. 1,733,231; Oct. 29.
- Maschinenbau Aktiengesellschaft Balcke. (See Meier, Ernst, assignor.)
- Maschinenfabrik Augsburg-Nuernberg A. G. (See Becher, Theodor, assignor.)



- Maschinenfabrik Augsburg-Nuernberg A. G. (See Bullheimer, Hans, assignor.)
- Maschinenfabrik Augsburg-Nuernberg A. G. (See Duwe, Friedrich, assignor.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Becker, Heinrich, assignor.)
- Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft. (See Geiger, Josef, assignor.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Mahler, Johann, assignor.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Riehm, Wilhelm, assignor.)
- Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Wilhelm, Ottmar, assignor.)
- Maschinenfabrik Benninger A.-G. (See Wagner, Ernst, assignor.)
- Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. (See Notz, Heinrich, assignor.)
- Maschinenfabrik Carl Zangs Aktiengesellschaft. (See Dersen, Heinrich, assignor.)
- Maschinenfabrik Einsiedel Gesellschaft m. b. H. (See Lieberknecht, Paul, assignor.)
- Maschinenfabrik Kiessling A.-G. (See Ruttiman, P., sr., and Holzschelter, assignors.)
- Maschinenfabrik Oerlikon. (See Hildebrandt, Johann, assignor.)
- Maschinenfabrik Oerlikon. (See Vontobel, Ernst R., assignor.)
- Maschinenfabrik "Rheinland" A.-G. (See Selmsch, Otto, assignor.)
- Maschinenfabrik Ruti Vormals Caspar Honegger. (See Egli, Eduard, assignor.)
- Mascuch, Joseph J., East Orange, N. J. Automobile bumper. 1,710,175; Apr. 23.
- Mascuch, Joseph J., East Orange, N. J. Apparatus for heat treating and quenching bar stock. 1,712,833; May 14.
- Mascuch, Joseph J., East Orange, N. J. Apparatus for electroplating metallic bands. 1,717,460; June 18.
- Mascuch, Joseph J., East Orange, N. J. Manufacture of shapes from steel bars. 1,728,622; Sept. 17.
- Masek, James C., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Theater-lighting control apparatus. 1,736,454; Nov. 19.
- Mashak, Frank, Newark, N. J. Bookmark. 1,697,467; Jan. 1.
- Maska, Joseph F., and F. G. Erhart, Cicero, Ill. Window fastener. 1,733,420; Oct. 29.
- Maskin- och Brobyggnads Aktiebolaget. (See Degerth, John, assignor.)
- Maso, Joseph Dal. (See Dal Maso, Joseph.)
- Masolian, Pete M., Granite City, Ill. Traveling temperature plant. 1,726,081; Aug. 27.
- Mason Alfalfa Process Company, The. (See Mason, Arthur J., assignor.)
- Mason, Archibald O., Highland Park, Ill. Apparatus for reclaiming automobile radiators. 1,725,990; Aug. 27.
- Mason, Arthur J., Jr., Taft, Calif. Earth sampler. 1,705,623; Mar. 19.
- Mason, Arthur J., Homewood, Ill. Sand washing. 1,723,190; Aug. 6.
- Mason, Arthur J., Homewood, Ill. Washing granular material. 1,741,063; Dec. 24.
- Mason, Arthur J., Homewood, Ill., assignor to The Mason Alfalfa Process Company, Philadelphia, Pa. Harvesting machine. 1,731,821; Oct. 15.
- Mason, Au & Magenheimer Confectionery Manufacturing Company. (See Cooper, Simon, assignor.)
- Mason Box Company, The. (See Harden, Ralph L., assignor.)
- Mason, Collins, Los Angeles, Calif., and A. W. Bond, New York, N. Y. Measuring dispenser. 1,710,233; Apr. 23.
- Mason Corporation, The. (See Mason, Richard C., assignor.)
- Mason, Erwin S., Norwood, Ohio. Mixer for plastics. 1,705,127; Mar. 12.
- Mason, Francis C., Streator, Ill. Folding chair. 1,716,256; June 11.
- Mason, Frank L., and A. Gagliardi, Brooklyn, N. Y. Shoe counter. 1,699,474; Jan. 15.
- Mason, Frank N., assignor, by mesne assignments, to F. Schaefer, Pittsburgh, Pa. Locking device for stuffing-box nuts. 1,737,543; Nov. 26.
- Mason, George W., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerating system. 1,700,770; Feb. 5.
- Mason, George W., assignor to Copeland Products, Inc., Detroit, Mich. Tray for refrigeration systems. 1,728,210; Sept. 17.
- Mason, George W., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerator. 1,736,884; Nov. 26.
- Mason, Harold L., London, England. Valve for steam or other fluids and liquids. 1,715,665; June 4.
- Mason, Hobart, Westfield, N. J., B. Beardsley and P. J. Birkmeyer, Brooklyn, assignors to The Western Union Telegraph Company, New York, N. Y. Endless-cord conveyor. 1,715,301; May 28.
- Mason, Hubert C., East Croydon, assignor to Anglo-American Pharmaceutical Company Limited, Croydon, England. Collapsible tube. 1,727,241; Sept. 3.
- Mason, John H., Philadelphia, Pa. Substation system. 1,732,135; Oct. 15.
- Mason, Ora, Sandoval, Ill. Barber's apron. 1,710,426; Apr. 23.
- Mason, Richard C., Tulsa, Okla. Pump. 1,741,244; Dec. 31.
- Mason, Richard C., Tulsa, Okla., assignor to E. Joyce, Coffeyville, Kans. Pumping rig. 1,708,584; Apr. 9.
- Mason, Richard C., assignor to The Mason Corporation, Tulsa, Okla. Heater. 1,723,743; Aug. 6.
- Mason, Wesley W., Baltimore, Md. Bottle closure. 1,739,763; Dec. 17.
- Mason, William B., assignor to G. H. and C. M. Calvet, Brooklyn, N. Y. Stay for washable rugs. 1,706,672; Mar. 26.
- Masquelier, Roger, Tirlemont, Belgium. Friction shock absorber for suspending vehicles. 1,717,112; June 11.
- Massa, Felice, Cranford, N. J. Folding apparatus. 1,707,443; Apr. 2.
- Massachusetts Mutual Life Insurance Company. (See Thebaud, Laurence G., assignor.)
- Massachusetts Steel Products, Inc. (See Roberts, Henry P., assignor.)
- Massatsch, Cornelius, Berlin, assignor to Matro G. m. b. H., Heilbronn-on-Neckar, Germany. Manufacture of a therapeutically-active iron preparation having yeast as its basic substance. 1,710,584; Apr. 23.
- Massatsch, Cornelius, Berlin, assignor to Matro G. m. b. H., Heilbronn-on-Neckar, Germany. Manufacturing dry yeast for medical and pharmaceutical purposes. 1,736,657; Nov. 19.
- Massé, Albert, Beauport, assignor of twenty per cent each to J. A. Everett and M. Grenier, Quebec, and E. Plamondon and U. Plourde, Ste. Anne de Beaupre, Canada. Street or station indicator. 1,731,075; Oct. 8.
- Masse, Casimer, assignor to Société Civile des procédés Masse, Paris, France. Treatment of plant fibers. 1,719,066; July 2.
- Massera, Giuseppe. (See Adamtchik, M., and Massera.)
- Masset, Joseph R., Chicago, Ill. Holding device for grounds. 1,711,538; May 7.
- Massey Concrete Products Corporation. (See Gilman, Charles, assignor.)
- Massey Concrete Products Corporation. (See Hobson, J. S., and Huntoon, assignors.)
- Massey, Harold F., Disley, England. Forging press or like machine. 1,713,974; May 21.
- Massey-Harris Company. (See Harris, B. S., and Johnston, assignors.)
- Massey, Henry P., New York, N. Y. Aircraft. 1,698,819; Jan. 15.
- Massey, Henry P., New York, N. Y. Aircraft. 1,714,608; May 28.
- Massey, Henry P., Montclair, N. J. Airplane. 1,714,609; May 28.
- Massey, Wesley F., Ballston Spa, N. Y., assignor to General Electric Company. Anode. 1,717,239; June 11.
- Massie, Noah H., assignor to Apple Vender Company, Yakima, Wash. Fruit-vending machine. 1,705,936; Mar. 19.
- Massie, Noah H., Yakima, assignor to Apple Vender Company, Seattle, Wash. Fruit-vending machine. 1,729,886; Oct. 1.
- Massolle, Joseph. (See Vogt, H., Massolle, and Engl.)
- Massolle, Joseph, Berlin-Wilmersdorf, Germany, assignor to Tri-Ergon A. G., Zurich, Switzerland. Electrostatic telephonic instrument for transmitting or receiving purposes. Re17,256; Apr. 2.
- Massolle, Joseph, Berlin-Wilmersdorf, Germany, assignor to Tri-Ergon A. G., Zurich, Switzerland. Electrostatic telephone. Re17,257; Apr. 2.
- Massolle, Joseph, Berlin-Grunewald, H. Vogt, Berlin-Wilmersdorf, and Josef Engl, Berlin-Grunewald, Germany, assignors, by mesne assignments, to W. Fox, Woodburgh, N. Y. Telephone. Re17,448; Oct. 1.
- Masteller, A. Clyde, et al. (See Porter, Thomas J., assignor.)
- Masten, Anna H., San Diego, Calif. Supporting hook. 1,716,826; June 11.
- Master Electric Company, The. (See Larsh, Everett P., assignor.)
- Master Fan Corporation. (See Ness, William H. C., assignor.)
- Master Lock Company. (See Soref, Harry E., assignor.)
- Master Package Corporation, The. (See Hulbert, Edwin F., assignor.)
- Master Wire Die Corporation. (See Simons, Abraham, assignor.)
- Master Wire Lath Company. (See Hicks, William D., assignor.)
- Masterenck Corporation. (See Mead, Homer A., assignor.)
- Masters, Marion G., Evansville, Ind., assignor of one-half to W. Cox, Vanderburg County, Ind. Air-operated advertising device. 1,704,572; Mar. 5.
- Mastin, Clarence W., Little Rock, Ark. Pants cuff. 1,709,799; Apr. 16.
- Maston, Edward E., Evanston, assignor to Mid-West Box Company, Chicago, Ill. Container. 1,704,948; Mar. 12.
- Mastromonaco, Nicola M., Buffalo, N. Y. Window shade. 1,712,574; May 14.
- Ma-Stud Corporation, The. (See Mays, J. K., and Snively, assignors.)
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Spring suspension. 1,698,851; Jan. 15.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Body for motor vehicles. 1,707,311; Apr. 2.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Distance rod. 1,720,423; July 9.



- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Brake for forward rear axle of six-wheel drives. 1,720,424; July 9.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Flexible connection for motor-vehicle panels. 1,728,870; Sept. 17.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Flexible connection for motor-vehicle panels. 1,728,871; Sept. 17.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Flexible connection for motor-vehicle panels. 1,728,872; Sept. 17.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Flexible connection for motor-vehicle panels. 1,728,873; Sept. 17.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Flexible connection for motor-vehicle panels. 1,728,874; Sept. 17.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Flexible connection for motor-vehicle panels. 1,728,875; Sept. 17.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Flexible connection for motor-vehicle panels. 1,728,876; Sept. 17.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Seat. 1,731,387; Oct. 15.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Wheel mounting. 1,735,404; Nov. 12.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Driving mechanism for six-wheel vehicles. 1,741,425; Dec. 31.
- Masury, Alfred F., and A. H. Leipert, assignors to International Motor Company, New York, N. Y. Tire-protecting device. 1,726,158; Aug. 27.
- Mataresse, Antonio, and E. Centenaro, Buenos Aires, Argentina. Razor sharpener. 1,734,173; Nov. 5.
- Matchette, Frank J., assignor to The Servidor Company, New York, N. Y. Service cabinet. 1,703,944; Mar. 5.
- Matcovich, Joseph, assignor to American Can Company, San Francisco, Calif. Safety device for heating chambers. 1,713,442; May 14.
- Matelchik, Joseph, Weatherly, Pa. Piston-ring expander. 1,711,573; May 7.
- Mateen, Abraham, Cleveland, Ohio. Stand for sadirons. 1,704,988; Mar. 12.
- Mateer, Jesse E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,736,455; Nov. 19.
- Mateffy, Leslie K., Milaca, Minn. Safety attachment for bank vaults. 1,710,546; Apr. 23.
- Matesich, John C., et al. (See Kirk, Fred, assignor.)
- Matesich, John C. (See Kirk, F., and Matesich.)
- Mathauer, Edmund G., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Window fastener. 1,727,723; Sept. 10.
- Mathé, Aime, Paris, France, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for the precise determination of the level of glass in a furnace. 1,706,857; Mar. 26.
- Mathé, Pierre L. A. (See Gentil, E., and Mathé.)
- Mather, Alonzo C., Chicago, Ill. Flying machine. 1,720,846; July 16.
- Mather, George L., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicago Falls, Mass. Manufacture of inner tubes. 1,723,571; Aug. 6.
- Mather Spring Company, The. (See Nilsson, Robert W., assignor.)
- Mathers, William A., South Waverly, Pa., assignor to Unique Steel Block Company, Waverly, N. Y. Block for holding printing plates. 1,716,075; June 4.
- Mathesius, Hans. (See Mathesius, Walther and H.)
- Mathesius, Walther and H., Charlottenburg, Germany. Purifying gases from blast furnaces. 1,728,130; Sept. 10.
- Matheson, Howard W., Montreal West, Quebec, Canada, assignor to Canadian Electro Products Company, Limited, Montreal, Canada. Manufacture of acetic acid. Re17,377; July 16.
- Matheson, Howard W., Montreal, Quebec, Canada, and J. A. Nieuwland, Notre Dame, Ind., assignors to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Phenol-acetylene resin. 1,707,940; Apr. 2.
- Matheson, Howard W., Montreal, Quebec, and F. W. Skirrow, Shawinigan Falls, Quebec, assignors, by mesne assignments, to Canadian Electro Products Company, Limited, Montreal, Canada. Formation of esters of carboxylic acids. 1,720,184; July 9.
- Matheson, Howard W., Montreal, Quebec, and F. W. Skirrow, Shawinigan Falls, Quebec, assignor to Canadian Electro Products Company, Limited, Montreal, Canada. Vinyl-ester resins and making same. 1,725,362; Aug. 20.
- Matheson, William A., assignor to Roll-A-Way Bed Corporation, Chicago, Ill. Frame for an exercising machine. Des. 78,474; May 7.
- Matheson, William A., assignor to Roll-A-Way Bed Corporation, Chicago, Ill. Bed construction. 1,725,404; Aug. 20.
- Matheson, William A., assignor to Roll-A-Way Corporation, Chicago, Ill. Caster. 1,731,312; Oct. 15.
- Mathews, Edward F., Ypsilanti, Mich., assignor to L. B. Evans' Son Company. Shoe. Des. 80,039; Dec. 3.
- Mathews, Fred, assignor to E. P. Smith, Chicago, Ill. Retainer-valve bracket for railway cars. 1,705,488; Mar. 19.
- Mathews Gravity Carrier Company. (See Adams, Charles A., assignor.)
- Mathews, Schelle, Montesano, Wash. Logging tongs. 1,732,976; Oct. 22.
- Mathews, Siesel H., et al. (See Smith, Charles M., assignor.)
- Mathews, William E., Birmingham, Ala. Support for concrete reinforcements. 1,727,478; Sept. 10.
- Mathews, William E., assignor to Hardie-Tynes Mfg. Co., Birmingham, Ala. Feed-regulator for lubricating systems. 1,725,812; Aug. 27.
- Mathewson, Maxwell I. (See Copland, A. W., and Mathewson.)
- Mathewson, Maxwell I., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Machine tool. 1,739,764; Dec. 17.
- Mathewson, (Mrs.) S. B., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)
- Mathewson, Stanley B., et al., trustees. (See Mathewson, S. B., and Jamison, assignors.)
- Mathewson, Stanley B., Springfield, and W. K. Jamison, Dayton, assignors to S. B. Mathewson, W. K. Jamison, H. F. Marston (Mrs.) S. B. Mathewson, and (Mrs.) W. K. Jamison, trustees of the Lecar Carbon Company, a Trust Estate, Springfield, Ohio. Retort. 1,700,684; Jan. 29.
- Mathewson, Wilfred B., North Weymouth, Mass. Grease pump. 1,698,023; Jan. 8.
- Mathey, Edouard D., Cranford, N. J., and A. O. Williams, Brewster, Fla., assignors to Americal Cyanamid Company, New York, N. Y. Phosphoric acid recovery. 1,714,685; May 28.
- Mathey, Gustave S., Elizabeth, assignor to Johnson & Johnson, New Brunswick, N. J. Plaster of paris bandage and method of making it. 1,726,403; Aug. 27.
- Mathias, Maximilian, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerke, Siemenstadt, near Berlin, Germany. Telephone system. 1,730,617; Oct. 8.
- Mathiesen, Marius, Chicago, Ill., assignor, by mesne assignments, to William J. Sandberg. Collapsible loop aerial. 1,705,262; Mar. 12.
- Mathiesen, Marius, Chicago, Ill., assignor, by mesne assignments, to W. J. Sandberg. Portable aerial. 1,716,969; June 11.
- Mathiesen, Marius, assignor to Mathiesen-Sandberg Company, Chicago, Ill. Collapsible loop aerial. 1,721,128; July 16.
- Mathiesen-Sandberg Company. (See Mathiesen, Marius, assignor.)
- Mathieson Alkali Works, Inc., The. (See George, Anthony, assignor.)
- Mathieson Alkali Works, The. (See George, A., and MacMullin, assignors.)
- Mathieson Alkali Works, Inc., The. (See George, A., and Taylor, assignors.)
- Mathieson Alkali Works, Inc., The. (See Guyer, Jesse A., assignor.)
- Mathieson Alkali Works, Inc., The. (See Guyer, J. A., and Taylor, assignors.)
- Mathieson Alkali Works, The. (See Low, Frank S., assignor.)
- Mathieson Alkali Works, Inc., The. (See MacMullin, R. B., and George, assignors.)
- Mathieson Alkali Works, Inc., The. (See Mauran, Max, assignor.)
- Mathieson Alkali Works, Inc., The. (See Pattillo, D. K., and MacMahon, assignors.)
- Mathieson Alkali Works, Inc., The. (See Taylor, Maurice C., assignor.)
- Mathieson, Holger T., assignor to Illinois Pacific Glass Corporation, San Francisco, Calif. Conveyor. 1,715,141; May 28.
- Mathieu, Frederick W., assignor to Robert Phillips Co., Inc., New York, N. Y. Lighting fixture. Des. 80,182; Dec. 24.
- Mathieu, Gaston A., London, England, assignor to Radio Corporation of America. Antenna system. 1,735,083; Nov. 12.
- Mathieu, Joseph X., Pittsfield, Mass., assignor to General Electric Company. Welding machine. 1,708,769; Apr. 9.
- Mathis, Alexander, New Orleans, La., assignor to Mathis R-S Pump Company, Denver, Colo. Rotary pump. 1,698,235; Jan. 8.
- Mathis, Frederick W., Evergreen, Va. Mail box. 1,718,471; June 25.
- Mathis R-S Pump Company. (See Mathis, Alexander, assignor.)
- Mathmah Gesellschaft mit beschränkter Haftung. (See Fritz, Hans, assignor.)
- Matiska, Louis, Evansville, Ind. Barbecuing machine. 1,704,621; Mar. 5.
- Matison Machine Works. (See Medholdt, Louis T., assignor.)
- Matlevish, John J., Christopher, Ill. Chimney cap. 1,719,846; July 9.
- Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Method and apparatus for producing carbon black. 1,738,716; Dec. 10.
- Matlock, Chauncey, Brooklyn, N. Y., assignor to Monroe-Louisiana Carbon Company, Monroe, La. Separator apparatus. 1,738,717; Dec. 10.
- Matlock, John W., St. Louis, Mo., assignor to The Cincinnati Cap Company, Cincinnati, Ohio. Adjustable fastening for headwear. 1,709,181; Apr. 16.



- Matosian, Suren, Los Angeles, Calif. Drapery-rod end. Des. 78,859; Apr. 23.
- Matosian, Suren, Los Angeles, Calif. Drapery-rod end. Des. 78,860; Apr. 23.
- Matosian, Suren, Los Angeles, Calif. Drapery-rod end. Des. 78,861; Apr. 23.
- Matosian, Suren, Los Angeles, Calif. Drapery-rod end. Des. 78,862; Apr. 23.
- Matro, G. m. b. H. (See Massatsch, Cornelius, assignor.)
- Matson, Carl A., Lynnfield, Mass. Automatic reverse brake. 1,713,391; May 14.
- Matson, Carl A., Lynnfield, Mass. Reverse brake. 1,713,392; May 14.
- Matson, Carl A., Lynnfield Center, Mass., assignor, by mesne assignments, to Shoe Lace Company, Ltd., Providence, R. I. Tipping laces. 1,724,212; Aug. 13.
- Matsumiya, Kaoru, and H. Nakata, Kyoto, Japan. Preparing Salvarsan. 1,713,475; May 14.
- Matsumoto, Kosaku, Los Angeles, Calif. Emergency jack device. 1,718,658; June 25.
- Matsuoka, Chokichi, Los Angeles, Calif. Sea-moss harvester. 1,703,402; Feb. 26.
- Matte, Joseph, jr., Detroit, Mich. Anchor. 1,727,296; Sept. 3.
- Mattei, Diego, Genoa, Italy. Plate-rolling mill. 1,708,185; Apr. 9.
- Mattei, Diego, and A. Mazza, assignors to "Eternit" Pietra Artificiale, Societa Anonima, Geona, Italy. Apparatus for the manufacture of tubes of cement asbestos or similar substances. Re17,335; June 25.
- Matteoli, William M. (See Corcoran, T. J., and Matteoli.)
- Matter, Gustave O., Portland, Oreg. Tractor. 1,722,531; July 30.
- Matters, Harold, Brooklyn, N. Y., assignor to Eugene Ltd. Protective device for use in hair waving. 1,703,679; Feb. 26.
- Matteson, B. H. (See Farrar, Werter S., assignor.)
- Matteson, George F. (See Van Veen, A., and Matteson.)
- Matteson, George F., Rockyhill, assignor to The F. B. Shuster Company, New Haven, Conn. Wire-cutting machine. 1,711,277; Apr. 30.
- Matteson, George F., Rockyhill, assignor to The F. B. Shuster Company, New Haven, Conn. Wire straightening and burnishing arbor. 1,714,096; May 21.
- Matteson, George F., Rockyhill, assignor to The F. B. Shuster Company, New Haven, Conn. Wire-straightening machine. 1,735,833; Nov. 12.
- Matteson, Jesse V., jr., Santa Rosa, Calif. Method of and apparatus for use in casting dental models. 1,733,895; Oct. 29.
- Matteson, Jesse W., et al. (See Ackerman, Harold T., assignor.)
- Matteson, John A., Watkins, N. Y. Auxiliary air intake. 1,721,633; July 23.
- Matteson, Ralph D., Eagle, Idaho. Humidifier. 1,711,237; Apr. 30.
- Matteson, Ralph D., Eagle, Idaho. Cooler and humidifier. 1,727,618; Sept. 10.
- Matteson, Ralph D., Eagle, Idaho. Cooler and humidifier. 1,727,998; Sept. 10.
- Matth, Hohner Akt. Ges. (See Glass, Ernst, assignor.)
- Matthaei, Curt, Offenbach-on-the-Main, Germany. Apparatus for unwinding coiled wire, band iron, and the like. 1,729,955; Oct. 1.
- Matthaei, Frederick C. (See Snell, Samuel A., assignor.)
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,702,124; Feb. 12.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,718,751; June 25.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Overhead trolley system. 1,731,170; Oct. 8.
- Matthes, Walter W., Wellington, Wash. Lifting jack. 1,710,935; Apr. 30.
- Matthys, Algernon W., and J. F. Williams, Haverhill, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Welt-treating machine. 1,724,950; Aug. 20.
- Matthews Automatic Traffic Control Co. (See Matthews, Thomas M., assignor.)
- Matthews, Charles R. (See Wrightson, S. S., and Matthews.)
- Matthews, Gerald G., assignor of three-tenths to W. H. Matthews, Minneapolis, Minn. Toasting device. 1,719,710; July 2.
- Matthews, H. A., Mfg. Co., The. (See Cove, William N., assignor.)
- Matthews, H. A., Mfg. Co., The. (See Naylor, Henry R., assignor.)
- Matthews, Harold C., Los Angeles, Calif. 1,738,838; Dec. 10.
- Matthews, Howard D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Adjustable thermostatic control switch. 1,726,748; Sept. 3.
- Matthews, Howard W., assignor to Dexdale Hosiery Mills, Lansdale, Pa. Knitting machine. 1,716,344; June 4.
- Matthews, Joseph P., Mitchellville, Md. Door attachment. 1,738,381; Dec. 3.
- Matthews, Launa, Athens, Ga. Embroidery attachment for sewing machines. 1,704,095; Mar. 5.
- Matthews, Newton W., Fullerton, Calif. Suction-operated signal for automobiles. 1,725,813; Aug. 27.
- Matthews, Thomas M., assignor to Matthews Automatic Traffic Control Co., Tallahassee, Fla. Traffic signal for highways. 1,723,687; Sept. 17.
- Matthews, W. N., Corporation. (See Birkenmaier, Theodore, assignor.)
- Matthews, W. N., Corporation. (See Birkenmaier, T., and Wilson, assignors.)
- Matthews, W. N., Corporation. (See Boll, L. P., and Hansen, assignors.)
- Matthews, W. N., Corporation. (See Heinrich, Walter A., assignor.)
- Matthews, Walter R., Willesden, London, England. Anti-friction shaft and bearing. 1,725,290; Aug. 20.
- Matthews, William E. (See Wallden, Osborne, assignor.)
- Matthews, William G., Brooklyn, N. Y. Oil can. 1,704,573; Mar. 5.
- Matthews, William H. (See Matthews, Gerald G., assignor.)
- Matthias, Adolf, Berlin-Wilmersdorf, Germany. Cathode-ray oscillograph. 1,736,456; Nov. 19.
- Matthias, Gilbert L., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for producing channel rubber. 1,702,123; Feb. 12.
- Matthies, Otto. (See Dieterle, W., Matthies, Mauerhoff, and Reitsstötter.)
- Matthies, Otto, W. Dieterle, Dessau, and J. Reitsstötter, Berlin-Friedenau, Germany, assignors, by mesne assignments, to Agfa Anasco Corporation, Binghamton, N. Y. Photographic silver-halid emulsion. 1,719,711; July 2.
- Matthies, Otto W. Dieterle, and B. Wendt, Dessau in Anhalt, Germany, assignors, by mesne assignments, to Agfa Anasco Corporation, Binghamton, N. Y. Sensitized element, silver halid emulsion therefor, and manufacturing the same. 1,742,042; Dec. 31.
- Matthies, William H., Hackensack, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,708,949; Apr. 16.
- Matthies, William H., assignor of one-half to A. D. Moore, Chicago, Ill. Cap extractor. 1,716,528; June 11.
- Matthiessen, Paul, and A. D. Möller, Hamburg, Germany. Hinged gate for the testing cylinders of submarines. 1,710,585; Apr. 23.
- Mattick, Carl. (See Lay, E., and Mattick.)
- Matti, Jean, Pully, assignor to Augmentine Holding S. A., Lausanne, Switzerland. Manufacture of ordinary bread. 1,701,580; Feb. 12.
- Mattinson, Jesse E., and E. J. Moody, San Francisco, Calif. Excavator. 1,735,122; Nov. 12.
- Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Wood-centering device for wood-turning machines. 1,706,178; Mar. 19.
- Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Machine tool. 1,707,764; Apr. 2.
- Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Knife holder for cutter heads. 1,710,097; Apr. 23.
- Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Wood-turning machine. 1,721,160; July 16.
- Mattison, Carl L. and C. E. La Pointe, assignors to Mattison Machine Works, Rockford, Ill. Wood-turning machine. 1,735,906; Nov. 19.
- Mattison Machine Works. (See Becker, Christian, assignor.)
- Mattison Machine Works. (See Mattison, C. L., and La Pointe, assignors.)
- Mattison Machine Works. (See Mattison, Carl L., assignor.)
- Mattison Machine Works. (See Medholdt, Louis T., assignor.)
- Mattiza, Otto F., et al. (See Davis, Samuel P., assignor.)
- Mattson, Anton, Minneapolis, Minn. Window ventilator for automobiles. 1,702,216; Feb. 12.
- Mattson, Leroy, Oakland, assignor to Luce-Mattson Engine Co., San Francisco, Calif. Engine. 1,703,044; Feb. 19.
- Mattson, Matt, Congress Park, Ill. Garage-door-control mechanism. 1,723,052; Aug. 6.
- Mattson, Richard B., Bessemer, Mich. Cigarette extinguisher and receiver. 1,740,826; Dec. 24.
- Mattson, William J., North Hibling, Minn. Trouble-light outfit. 1,698,643; Jan. 8.
- Matuch, Karol, Warsaw, Poland. Lock. 1,730,375; Oct. 8.
- Matunaga, Yosinobu, Tokyo, Japan, assignor to General Electric Company. Control of vapor electric devices. 1,699,113; Jan. 15.
- Matuszyk, Jozef, Pana, Ill. Drill-hole charger. 1,713,443; May 14.
- Marzel, Conrad, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Producing zinc. 1,705,128; Mar. 12.
- Mau, Edward A., assignor to Landers, Frary & Clark, New Britain, Conn. Thermostat. 1,731,822; Oct. 15.
- Mauborgne, Camille, Montreal, Quebec, Canada. Locking device for automobiles. 1,733,128; Oct. 29.
- Mauchan, Charles B., Glasgow, Scotland. Starting gate for race courses. 1,741,470; Dec. 31.
- Mauck, Victor, Merion, Pa. Combination house-heating and hot-water-dispensing system. 1,715,040; May 28.
- Mauck, Victor, Merion, Pa. Thermostatically-controlled valve. 1,717,052; June 11.
- Maud, Orman H. (See Maud, Walter, assignor.)
- Maud, Walter, assignor of one-half to O. H. Maud, Syracuse, N. Y. Adjustable foot guard. 1,698,140; Jan. 8.



- Maude, Aylmer H. (See Hand, C. N., Bartram, and Maude.)
- Maude, Aylmer H. (See Reid, H. S., and Maude.)
- Maude, Aylmer H. (See Rodman, C. J., and Maude.)
- Maude, Aylmer H., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Manufacturing glacial acetic acid. 1,722,532; July 30.
- Maude, Aylmer H., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Aldehyde manufacture. 1,738,659; Dec. 10.
- Mauer, Louis G., New York, N. Y. Coating composition and making same. 1,704,622; Mar. 5.
- Mauer, Michael M., New York, N. Y. Egg-candling device. 1,740,661; Dec. 24.
- Mauerhoff, Emil. (See Dieterle, W., Matthies, Mauerhoff, and Reitschötter.)
- Mauger, Samuel W., Schenectady, N. Y., assignor to General Electric Company. Electric-switch installation. 1,723,876; Aug. 6.
- Mauk, C. A., Lumber Company. (See Latimer, Charles A., assignor.)
- Mauk, Robert R., and H. A. Mills, Grand Rapids, Mich. Automobile securing means for freight cars. 1,733,269; Oct. 29.
- Maul, Alfred H. C., Dresden, assignor to A. B. Fischl, a firm, Dresden-Leubnitz, Germany. Machine for dressing reeds used for cigarette mouthpieces. 1,700,849; Feb. 5.
- Maulen, Charles F., et al. (See Garrett, Henry, assignor.)
- Maulen, Frederick, East Orange, N. J., S. Myerson, Brookline, Mass., and G. L. Van Allen, Newark, N. J., assignors to Baker & Co. Inc. Artificial teeth. 1,721,080; July 16.
- Mauler, Carl, Vienna, Austria. Ascertaining the resistance to rusting shown by iron, steel, and iron alloys. 1,714,035; May 21.
- Maulsby, John R. (See Maulsby, Zene R. and J. R.)
- Maulsby, Zene R. and J. R. Maulsby, Everett, Wash. Fabric-forming machine. 1,724,493; Aug. 13.
- Maulsby, Zene R. and J. R., Everett, Wash. Fabric-forming machine. 1,733,353; Oct. 29.
- Mauney, Samuel E., Gainesville, Ga. Cultivator. 1,697,775; Jan. 1.
- Maupin, Graves R., assignor to The J. Faessler Manufacturing Company, Moberly, Mo. Apparatus for finishing aligned cylindrical bearing surfaces. 1,699,003; Jan. 15.
- Maupin, Graves R., assignor to The J. Faessler Manufacturing Company, Moberly, Mo. Securing bushings and tool therefor. 1,728,499; Sept. 17.
- Mauquoil, Friedrich, Paterson, N. J. Hydraulic marine propulsion. 1,721,827; July 23.
- Mauquoil, Friedrich, Paterson, N. J. High-pressure hydraulic marine propulsion. 1,738,013; Dec. 3.
- Mauran, Max, Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. High-pressure valve. 1,733,421; Oct. 29.
- Maurer, Donald D., Walnut Creek, Calif. Transmission. 1,731,076; Oct. 8.
- Maurer, Elmer B. (See Bloss, R. R., Pfeil, and Maurer.)
- Maurer, F. W., & Sons Co. (See Rehfuess, Martin O., assignor.)
- Maurer, John F., jr., Woodcliffe, N. J. Bottle crate. 1,735,772; Nov. 12.
- Maurer, Max. (See von Hope, C., and Maurer.)
- Maurer, Rufus H., Brookline, assignor to Spencer Thermostat Company, Cambridge, Mass. Pilot cut-off for gas burners. 1,711,420; Apr. 30.
- Maurer, Rufus H., Brookline, assignor to Spencer Thermostat Company, Cambridge, Mass. Pilot cut-off for gas burners. 1,711,421; Apr. 30.
- Mauron, Francois, Baden, Aargau, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Vibrating contact regulator. 1,699,900; Jan. 22.
- Maury, Alfred D., Iilon, assignor to Martin Automatic Fishing Reel Company, Inc., Mohawk, N. Y. Reel-seat lock. 1,698,341; Jan. 8.
- Maus, Frank, San Francisco, assignor to Johnson Washer Company, Oakland, Calif. Washing machine. 1,701,187; Feb. 5.
- Mausser, Alfons, deceased, Cologne-Marienburg, Germany; R. Eith, and F. Braun, executors, assignors to Mauser Barrel Co., Inc., New York, N. Y. Process and apparatus for removing corrugations from bendable material. 1,711,644; May 7.
- Mausser, Alfons, deceased, Cologne-Marienburg, Germany; R. Eith and F. Braun, executors, assignors to Mauser Barrel Co., Inc., New York, N. Y. Packing container. 1,730,434; Oct. 8.
- Mauser Barrel Co. (See Mauser, Alfons, assignor.)
- Mausser, Rudolf, Cologne-Marienburg, Germany. Bung for iron transport casks. 1,737,605; Dec. 3.
- Mausser, Joseph, Cleveland, Ohio. Sanitary hospital pad. 1,712,391; May 7.
- Maust, Robert, Elkton, S. Dak. Snowplow. 1,724,494; Aug. 13.
- Mauthe, Friedrich, G. m. b. H. (See Lauffer, Andreas, assignor.)
- Mauthe, Gustav. (See Guenther, A., Thaus, and Mauthe.)
- Mauvillier, Bernard, Casablanca, Morocco. Automatic clutch device for motor vehicles and other applications. 1,710,174; Apr. 23.
- Maves, Emil W., Owen, and W. B. Mews, Marshfield, Wis. Switch-point-locking device. 1,740,365; Dec. 17.
- Maves, Stanley E., assignor to Western Newell Manufacturing Company, Freeport, Ill. Curtain rod. Des. 78,771; June 18.
- Mavor, Wilfrid, and C. S. Houpt, Ottawa, Ontario, Canada; said Mavor assignor to said Houpt. Transferring natural-wood-grain designs of a wood panel to another article. 1,741,471; Dec. 31.
- Mavrogenis, Aristote, Milwaukee, Wis. Electron-discharge device. 1,700,373; Jan. 29.
- Maw, Wilfred G., assignor to R. A. Lister & Company Limited, Dursley, England. Comb plate for sheep-shearing-machine handpieces. 1,724,951; Aug. 20.
- Mawdsley, John H. S., Barnwood, near Gloucester, England. Generation of electric current for electric welding. 1,721,348; July 16.
- Max Ams Chemical Engineering Corporation, The. (See Brenzinger, Julius, assignor.)
- Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)
- Maxant Button and Supply Company. (See McDonough, Laurence E., assignor.)
- Maxfield, Charles B. (See Harrington, C. N., May, and Maxfield.)
- Maxfield, Joseph P., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Studio for acoustic purposes. 1,719,481; July 2.
- Maxim, Hiram H., assignor, by mesne assignments, to The Maxim Silencer Company, Hartford, Conn. Adjusting oscillation period of exhausts of internal-combustion engines. 1,713,047; May 14.
- Maxim, Hiram P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. Re17,299; May 21.
- Maxim, Hiram P., Hartford, Conn. Silencer. 1,705,528; Mar. 19.
- Maxim, Hiram P., Hartford, Conn. Silencer. 1,709,992; Apr. 23.
- Maxim, Hiram P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,736,319; Nov. 19.
- Maxim, Hiram P., and R. B. Bourne, assignors, by mesne assignments, to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,732,943; Oct. 22.
- Maxim, Howard F., Locke Mills, Me. Automatic lathe. 1,722,933; July 30.
- Maxim Silencer Company, The. (See Bourne, Roland B., assignor.)
- Maxim Silencer Company, The. (See Maxim, Hiram P., assignor.)
- Maxim Silencer Company, The. (See Maxim, H. P., and Bourne, assignors.)
- Maxmoor Corporation. (See Dumanois, Emile P., assignor.)
- Maxmoor Corporation. (See Moore, Arlington, assignor.)
- Maxner, George E., West End, N. J. Seasoning paper. 1,710,706; Apr. 30.
- Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Percussive motor. 1,703,840; Feb. 26.
- Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,704,672; Mar. 5.
- Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,708,677; Apr. 9.
- Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,742,038; Dec. 31.
- Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,742,178; Dec. 31.
- Maxson, Rolland H. (See Anderson, F. A., and Maxson.)
- Maxson, Rolland H., assignor to The Burdick Copation, Milton, Wis. Therapeutic-lamp element and making same. 1,697,606; Jan. 1.
- Maxson, Rolland H., assignor to The Burdick Corporation, Milton, Wis. Therapeutic-lamp unit. 1,697,607; Jan. 1.
- Maxson, Rolland H., assignor, by mesne assignments, to The Burdick Corporation, Milton, Wis. Rheostat. 1,705,299; Mar. 12.
- Maxson, Rolland H., assignor to The Burdick Corporation, Milton, Wis. Therapeutic lamp. 1,705,300; Mar. 12.
- Maxwell-Burke, Incorporated. (See Burke, Edwin, assignor.)
- Maxwell, Clarence H., and C. C. Himes, Indianapolis, Ind. Domestic boiler. 1,704,916; Mar. 12.
- Maxwell, Emmett B., Bakersfield, Calif. Solar heater. 1,705,988; Mar. 19.
- Maxwell, Harry W. (See Bridgman, Arthur L., assignor.)
- Maxwell, Howard, Schenectady, N. Y., assignor to General Electric Company. Control of induction motors. 1,698,315; Jan. 8.
- Maxwell, Howard, Schenectady, N. Y., assignor to General Electric Company. Induction-motor rotor. 1,699,150; Jan. 15.
- Maxwell, John M., Dunedin, New Zealand. Catchment louvers for cool chambers for preventing the precipitation of moisture on the perishable goods stored therein. 1,709,730; Apr. 16.
- Maxwell, Joseph M., Wichita, Kans. Sectional gas burner. 1,736,207; Nov. 19.
- Maxwell, Joseph P., R. C. Bergvall, Wilkinsburg, and J. H. Ashbaugh, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Regulator system. 1,739,159; Dec. 10.



- Maxwell-Lefroy, Harold, London, England, assignor to The Graesser-Monsanto Chemical Works, Limited, Raubon, North Wales. Treating material to render them undesirable as a habitation for insects. 1,725,656; Aug. 20.
- Maxwell, Ralph E., Modesto, Calif. Automobile oil record. 1,717,848; June 18.
- Maxwell, Robert M., assignor to William Volker & Company, Kansas City, Mo. Window-shade marker. 1,715,419; June 4.
- Maxwell, William H., Los Angeles, assignor of one-half to L. F. Baash, Whittier, Calif. Elevator. 1,730,670; Oct. 8.
- Maxwell, William R., Hicksville, Ohio. Padlock. 1,734,819; Nov. 5.
- May, Adam J., assignor, by mesne assignments, to Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Extensible chair. 1,700,741; Feb. 5.
- May, Adam J., assignor, by mesne assignments, to Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Headrest. 1,704,485; Mar. 5.
- May, Adam J., assignor to Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Article support. 1,705,582; Mar. 19.
- May, Adam J., assignor, by mesne assignments, to Ritter Dental Mfg. Co., Rochester, N. Y. Dental chair. 1,708,450; Apr. 9.
- May, Adam J., assignor to Ritter Dental Mfg. Co. Inc., Rochester, N. Y. Dental chair. 1,737,505; Nov. 26.
- May, Albert J., Houston, Tex. Paintbrush. 1,699,004; Jan. 15.
- May, Henry T. (See Harrington, C. N., May, and Maxwell.)
- May Hosiery Mills. (See Perry, Napoleon J., assignor.)
- May Hosiery Mills. (See Smith, William L., Jr., assignor.)
- May, Janet, assignor to Carlin Comforts, Inc., New York, N. Y. Comforter. Des. 78,117; Mar. 26.
- May, Janet, assignor to Carlin Comforts, Inc., New York, N. Y. Comforter. Des. 78,217; Apr. 9.
- May, John J., and F. J. Shutz, assignors to Zastrow Machine Company Inc., Baltimore, Md. Apparatus for treating shucked oysters. 1,696,962; Jan. 1.
- May, John W., Belmont, Mass. Making shoes. 1,741,999; Dec. 31.
- May, John W., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Boot or shoe and making the same. 1,710,936; Apr. 30.
- May, Joseph, Frankfurt-on-the-Main, Germany. Foot-arch support. 1,701,269; Feb. 5.
- May, Joseph A., Hayward, assignor to Hunt Bros. Packing Co., San Francisco, Calif. Can-feeding machine. 1,716,968; June 11.
- May, Louis B., Pittsburgh, Pa. Boat. 1,726,962; Sept. 3.
- May, Orville E. (See Herrick, H. T., and May.)
- May, William, assignor to G. C. Wilson, Belgium, Wis. Currycomb. 1,715,937; June 4.
- Mayaca Company. (See Hoenshel, Paul M., assignor.)
- Mayall, Harry S., Spokane, Wash. Refrigerant due ice and method. 1,719,987; July 9.
- Maybach, Karl, assignor to Maybach-Motorenbau Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Transmission gear. 1,719,188; July 2.
- Maybach, Karl, assignor to Maybach-Motorenbau Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Diesel engine. 1,720,182; July 9.
- Maybach-Motorenbau Gesellschaft mit beschränkter Haftung. (See Maybach, Karl, assignor.)
- Mayea, Louis T., Fairhaven, Mich. Door lock. 1,740,827; Dec. 24.
- Mayer, Benedict, New Orleans, La. Automobile signal. 1,726,443; Aug. 27.
- Mayer, Bertram, Basel, and J. Würgler, Neuenwelt, near Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Indigoid dyestuffs and making same. 1,707,918; Apr. 2.
- Mayer, Bertram, and H. Siebenbuerger, Basel, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Dye-stuff preparations and making same. 1,715,242; May 28.
- Mayer, Bertram, and H. Siebenbuerger, Basel, assignor to Society of Chemical Industry in Basel, Basel, Switzerland. Vat dyestuff and making same. 1,728,068; Sept. 10.
- Mayer, Clarence S., et al. (See Norwood, Harry G., assignor.)
- Mayer, Clyde E. (See Langren, Arthur, assignor.)
- Mayer, Daniel J., Belleville, assignor to Metal Textile Corporation, West Orange, N. J. Metallic abrasant. 1,699,302; Jan. 15.
- Mayer, Daniel J., Belleville, N. J., assignor to Metal Textile Corporation. Scouring device. 1,713,975; May 21.
- Mayer, Daniel J., Belleville, assignor to Metal Textile Corporation, West Orange, N. J. Releasable friction lock for affixing spools or drums on rotatable spindles. 1,724,034; Aug. 13.
- Mayer, Emil, Berlin, Germany. Oscillating apparatus. 1,697,126; Jan. 1.
- Mayer, Emil, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Circuit arrangement for railroad signaling. 1,696,963; Jan. 1.
- Mayer, Emil, Vienna, Austria, assignor to Drem Products Corporation, New York, N. Y. Cutting device. 1,732,564; Oct. 22.
- Mayer, Emil, Vienna, Austria, assignor to Drem Products Corporation, New York, N. Y. Photometer. 1,733,354; Oct. 29.
- Mayer, Frederick L., Milwaukee, Wis. Spokeshave. 1,738,108; Dec. 3.
- Mayer, Fritz, Frankfurt-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Preparing phthaloyl-2,3-thionaphthenes. 1,713,670; May 21.
- Mayer, George A., Lakewood, Ohio, assignor, by mesne assignments, to United Autographic Register Company, Chicago, Ill. Printing apparatus. 1,717,053; June 11.
- Mayer, Hans. (See Küpfmüller, K., Tuzcek, and Mayer.)
- Mayer, Hans. (See Küpfmüller, K., Mayer, and Thierbach.)
- Mayer, Hans, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Amplifier. 1,709,360; Apr. 16.
- Mayer, Herbert H., and R. G. La Motte, Helena, Mont., assignors of two-thirds to said Mayer and one-third to said La Motte. Recovery of zinc from slags. 1,727,073; Sept. 3.
- Mayer, Herman, Philadelphia, Pa. Electric light reflector. Des. 79,337; Sept. 3.
- Mayer, Herman, Philadelphia, Pa. Apparatus for softening silk, yarn, cotton, and other thread. 1,736,543; Nov. 19.
- Mayer, J., & Sohn. (See Treusch, A., and Württenberger, assignors.)
- Mayer, Jerome, Belle Harbor, assignor to Comflocastic Corporation, New York, N. Y. Elasticized fabric. 1,741,530; Dec. 31.
- Mayer, Josef, Karlsbad, Czechoslovakia. Hair-waving appliance and method. Rel. 7,393; Aug. 6.
- Mayer, Joseph, assignor to Seattle Aerie No. 1, Fraternal Order of Eagles, Inc., Seattle, Wash. Badge. Des. 79,525; Oct. 1.
- Mayer, Leo, assignor to Henry Cole Company, Boston, Mass. Electric-lamp socket. 1,702,655; Feb. 19.
- Mayer, Leo, assignor to Henry Cole Company, Boston, Mass. Electrical connector. 1,714,178; May 21.
- Mayer, Leo, assignor to Henry Cole Company, Boston, Mass. Electric-lamp socket. 1,717,344; June 11.
- Mayer, Lothar W., and P. R. Wetzel, Chicago, Ill. Glaziers point setter. 1,734,820; Nov. 5.
- Mayer, Max, Karlsbad, Czechoslovakia. Separation of phosphorus from phosphorus vapors. 1,721,868; July 23.
- Mayer, Maxime, Le Vesinet, France, assignor to Jay Thorpe Inc., New York, N. Y. Beaded fabric. 1,715,420; June 4.
- Mayer, Milton M. (See Morris, James J., assignor.)
- Mayer, Rudolf, Berlin, Germany, assignor to Radio Corporation of America. High speed regulator and governor. 1,717,722; June 18.
- Mayer, Walter S., Philadelphia, Pa. Electric plug receptacle. 1,728,623; Sept. 17.
- Mayer, William, New York, N. Y. Reflector device for motion-picture projectors. 1,731,104; Oct. 8.
- Mayer, William G., Pittsburgh, Pa. Clamping bracket. 1,730,777; Oct. 8.
- Mayer, William G., Pittsburgh, Pa. Truck body. 1,730,940; Oct. 8.
- Mayer, William H., Jr., New York, N. Y. Fabric. Des. 79,599; Oct. 15.
- Mayhew, Joseph R., assignor to Mueller Co., Decatur, Ill. Drinking fountain. Des. 79,386; Nov. 5.
- Mayhugh, Robert L., Washington, D. C. Flower holder. 1,704,096; Mar. 5.
- Mayle, Albert M., Toledo, Ohio. Motion-picture apparatus. 1,735,468; Nov. 12.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Surfacing machine. 1,697,990; Jan. 8.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Lens-grinding machinery. 1,721,161; July 16.
- Maynard, Albert E., and W. A. Gunning, assignors to American Optical Company, Southbridge, Mass. Surfacing machine. 1,722,586; July 30.
- Maynard, Arthur H., Warwick, R. I., assignor to Boston Wire Stitcher Company, Portland, Me. Staple blank and forming same. 1,733,506; Oct. 29.
- Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Temperature-indicating device for calendar rolls. 1,717,849; June 18.
- Maynard, Joseph S. (See Lukens, A. R., and Maynard.)
- Maynard, Lester, Havre, France. Lock. 1,719,335; July 2.
- Mayne, Robert, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Circuit-control system. 1,723,289; Aug. 6.
- Maynes, Emma C. (See Maynes, Hyla F., assignor.)
- Maynes, Emma C., et al. (See Zebulskie, Edward A., assignor.)
- Maynes, Hyla F., et al. (See Zebulskie, Edward A., assignor.)
- Maynes, Hyla F., assignor of one-half to E. C. Maynes, North Tonawanda, N. Y. Amusement ride. 1,741,245; Dec. 31.
- Maynes, Hyla F., assignor of one-half to E. C. Maynes, North Tonawanda, N. Y. Amusement ride. 1,741,246; Dec. 31.



- Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on sheet materials. 1,729,225; Sept. 24.
- Mayo, Benjamin F., deceased, by E. Mayo, executrix, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for securing together two or more pieces of sheet material. 1,735,350; Nov. 12.
- Mayo, Etta, executrix. (See Mayo, Benjamin F.)
- Mayo, Franklin. (See Armstrong, Walter R., assignor.)
- Mayo, George E., Potsdam, N. Y. Device for controlling the moisture content of pulp. 1,726,749; Sept. 3.
- Mayo, George E., Potsdam, N. Y. Pulp-feed regulator. 1,726,750; Sept. 3.
- Mayo, George W. Laconia, N. H. Machine for attaching latches to latch knitting needles. 1,732,523; Oct. 22.
- Mayo, John, Fairmont, W. Va., assignor to Thermal Engineering Corporation, Long Island City, N. Y. Leer. 1,719,897; July 9.
- Mayo, John W., Wilkesburg, Pa. Electric gas-lighting device. 1,735,834; Nov. 12.
- Mayo, Thomas, Inglewood, Calif. Adjustable shore. 1,730,618; Oct. 8.
- Mayolino, Luis. (See Carles, S., and Mayolino.)
- Mayr, Karl A. (See Page, C. B., Burton, Mayr, and White.)
- Mayr, Leopold. (See Kraft, L., and Mayr.)
- Mayr, Otto, Karlshorst, Germany, assignor to General Electric Company. Circuit protection. 1,732,977; Oct. 22.
- Mays, Alfred L., and T. P. Cromer, Florence, S. C. Combined plug and wrench. 1,733,690; Oct. 29.
- Mays, James K., Fort Thomas, and H. A. Snively, Covington, Ky., assignors to The Ma-Stud Corporation. Plastered-building-partition construction. 1,734,685; Nov. 5.
- Maytag Company, The. (See Snyder, Howard F., assignor.)
- Maza, Juan G., Upland, Calif. Indicating mechanism for typewriters. 1,716,926; June 11.
- Maze, W. H., Company. (See Domagall, John E., assignor.)
- Mazel, Marcus, Philadelphia, Pa. Acoustic panel. 1,703,011; Feb. 19.
- Mazer, Marcus, Philadelphia, Pa. Acoustic panel. 1,721,461; July 16.
- Mazur, Samuel, Buffalo, N. Y., assignor to The Sessions Clock Company, Forestville, Conn. Clock. 1,700,506; Jan. 29.
- Mazur, Samuel, Buffalo, N. Y., assignor to The Sessions Clock Company, Forestville, Conn. Sounding mechanism for clocks. 1,704,864; Mar. 12.
- Mazza, Adolfo. (See Mattei, D., and Mazza.)
- Mazza, Joseph E., Cambridge, Mass. Cement-brick-stamping device. 1,705,331; Mar. 12.
- Mazza, Mario. (See Semenza, M., Mazza, and Bolledi.)
- McAdam, Josiah W., Vancouver, British Columbia, Canada. Drawing board. 1,719,273; July 2.
- McAdams, J. C., Company, The. (See Brummett, Ralph S., assignor.)
- McAdoo & Allen Welting Company. (See Paradise, Frank M., assignor.)
- McAfee, Joseph, Avalon, Calif. Deep-well jet pump. 1,713,848; May 21.
- McAleenan, George R., Pittsburgh, Pa. Method of and apparatus for bending structural shapes. 1,721,964; July 23.
- McAlice, Dennis B., Providence, R. I. Game apparatus. 1,722,986; July 30.
- McAlister, Arthur L. (See Gloschen, Everett C., assignor.)
- McAllister, Andrew W., San Francisco, Calif. Grinding machine. 1,725,155; Aug. 20.
- McAlpine, Walter P., Attleboro Falls, Mass., assignor to The W. N. Fisher Company. Forming fountain-pen clips. 1,702,656; Feb. 19.
- McAnally, Samuel G., Ludwig, Nev. Aging calcined gypsum. 1,713,879; May 21.
- McAnaney, Louis B., New Castle, Pa. Nursing-bottle holder. 1,737,468; Nov. 26.
- McAneny, Michael J., assignor to J. L. Goree, Denver, Colo. Tire-inflating air-pressure controller. 1,698,956; Jan. 15.
- McAneny, Michael J., assignor to J. L. Goree, Denver, Colo. Air-pressure-controlling means. 1,713,849; May 21.
- McArdle, Fred W. (See Slocumb, E. E. and McArdle.)
- McArdle, Fred W., Boston, assignor to F. L. Pigeon, East Boston, Mass. Machine for forming containers from plastic material. 1,705,024; Mar. 12.
- McArdle, Michael W., Chicago, Ill. Electric heater. Des. 77,423; Jan. 8.
- McArdle, Michael W., Chicago, Ill. Fertilizing water sprinkler. Des. 79,663; Oct. 22.
- McArdle, Michael W., Chicago, Ill. Sheep shear. 1,704,201; Mar. 5.
- McArdle, Michael W., Chicago, Ill. Portable stool. 1,723,363; Aug. 6.
- McArdle, Michael W., Chicago, Ill. Sheep shear. 1,723,364; Aug. 6.
- McArdle, Michael W., Chicago, Ill. Rest and portable container for electric irons. 1,727,350; Sept. 10.
- McArthur, Arthur R. (See Lorig, E. T., and McArthur.)
- McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Rolling-mill catcher. 1,702,739; Feb. 19.
- McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Apparatus for changing rolls. 1,712,575; May 14.
- McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Preheater. 1,730,739; Oct. 8.
- McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Matcher. 1,739,556; Dec. 17.
- McArthur, Arthur R., and E. E. Moore, Gary, Ind., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Heating furnace. 1,712,576; May 14.
- McArthur, C. C., Lincoln, and G. R. Hotchkiss, College View, Nebr. Strain insulator. 1,702,911; Feb. 19.
- McArthur, C. E., et al., trustees. (See Rightenour, Asa L., assignor.)
- McArthur, Charles D., Dayton, Ohio. Chain mortising machine. 1,703,941; Mar. 5.
- McArthur, Charles D., Oakwood, Ohio, assignor to McArthur Company, Dayton, Ohio. Dowel for Woodwork and the like. 1,724,610; Aug. 13.
- McArthur, Clarence M., assignor to J. T. McCreary, Detroit, Mich. Spray device. 1,697,834; Jan. 1.
- McArthur Company. (See McArthur, Charles D., assignor.)
- McArthur, Elmer A., Flint, Mich. Furnace using forced draft. 1,709,800; Apr. 16.
- McArthur, Elmer A., Flint, Mich. Furnace utilizing forced draft. 1,714,432; May 21.
- McArthur, Warren, Jr., Phoenix, Ariz. Automobile radiator construction. 1,698,236; Jan. 8.
- McArthur, Warren, Jr., Phoenix, Ariz. Automobile radiator construction. 1,698,237; Jan. 8.
- McAtee, Oscar F., Petersburg, Ind. Cap valve for gasoline tanks and batteries. 1,717,573; June 18.
- McAtee, John L., Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,709,140; Apr. 16.
- McAtee, John L., New York, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Essence dispenser. 1,731,250; Oct. 15.
- McAulay, Duncan. (See Whyte, J. E., and McAulay.)
- McAuliffe, Edward S. (See Ellison, M. and McAuliffe.)
- McBarron, William H., Cincinnati assignor to The Kurzkasch Company, Dayton, Ohio. Hinge and mounting therefor. 1,740,866; Dec. 24.
- McBean, Charles O., Los Angeles, Calif. Determining the normal occlusal plane. 1,706,179; Mar. 19.
- McBee Binder Co., The. (See Baker, Henry A., assignor.)
- McBee Binder Company, The. (See Kline, William R., assignor.)
- McBee Binder Company, The. (See Welk, Nelson S., assignor.)
- McBerty, Ford H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Effecting reaction between liquids tending to form tight emulsions. 1,698,270; Jan. 8.
- McBerty, Ford H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Cleaning fabrics. 1,715,855; June 4.
- McBerty, Fred P., Warren, Ohio. Electric welding machine. 1,731,136; Oct. 15.
- McBrayer, Wesley A., assignor of one-half to W. H. Carel, Cincinnati, Ohio. Locomotive-tank water gauge. 1,702,447; Feb. 19.
- McBride, Andrew D., Toronto, Ontario, Canada. Garage or storage building. 1,725,991; Aug. 27.
- McBride, Clarence O., assignor to Briggs Manufacturing Company, Detroit, Mich. Trim molding. 1,701,415; Feb. 5.
- McBride, F. Reed, administrator. (See Lauderdale, Chapin F.)
- McBride, James, Greenfield, Iowa. Fence post. 1,714,388; May 21.
- McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Conveyor. 1,707,359; Apr. 2.
- McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-car discharge-valve mechanism. 1,706,123; Mar. 19.
- McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Discharge outlet. 1,727,659; Sept. 10.
- McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Placard and holder therefor. 1,727,660; Sept. 10.
- McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Cane car. 1,727,661; Sept. 10.
- McBride, Joseph, Vancouver, British Columbia, Canada. Amusement device. 1,726,444; Aug. 27.
- McBride, Lewis M., Washington, D. C. Gas mask. 1,730,227; Oct. 1.
- McBride, Lewis M., Boston, Mass., assignor to Hercules Powder Company. Firing explosives. 1,738,595; Dec. 10.
- McBride, W. C., Inc. (See Hotchkiss, W. O., Aldrich, Stearn, and Foerst, assignors.)
- McBride, Lewis M., Washington, D. C. Fluid-projecting apparatus. 1,740,471; Dec. 24.
- McCaie, Charles J., Brooklyn, and I. Schoenholz, Cedarhurst, assignors to McCabe and Schoenholz, Inc., New York, N. Y. Pocketbook top. Re17,514; Dec. 3.
- McCabe, Charles J., Brooklyn, and I. Schoenholz, Cedarhurst, assignors to McCabe and Schoenholz, Inc., New York, N. Y. Pocketbook latch. Des. 80,007; Nov. 26.
- McCabe, Charles J., Brooklyn, and I. Schoenholz, Cedarhurst, assignors to McCabe and Schoenholz, Inc., New York, N. Y. Pocketbook latch. Des. 80,008; Nov. 26.



- McCabe, Charles J., Brooklyn, and I. Schoenholz, Cedarhurst, assignors to McCabe and Schoenholz, Inc., New York, N. Y. Pocketbook top. 1,729,599; Sept. 24.
- McCabe, Edward B., and G. C. Chamberlain, assignors to Carbondale Machine Company, Carbondale, Pa. Heat interchanger. 1,720,912; July 16.
- McCabe, Frank E. (See Rosenfeld, M. C., and McCabe.)
- McCabe, Frank E., Chagrin Falls, assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Molding system. 1,734,174; Nov. 5.
- McCabe, Frank E., Chagrin Falls, assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Mold carrier. 1,734,175; Nov. 5.
- McCabe, Frank E., Chagrin Falls, assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Mold shake-out apparatus. 1,734,176; Nov. 5.
- McCabe, Frank E., assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Mold-making machine. 1,734,177; Nov. 5.
- McCabe, Frank E., assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Mold flask. 1,734,300; Nov. 5.
- McCabe, Ira E. (See Armstrong, R. W., and McCabe.)
- McCabe, Ira E., Chicago, Ill. Light-operated apparatus. 1,697,986; Jan. 8.
- McCabe, Ira E., Chicago, Ill. Transmutation of visible light rays to accomplish physical work. 1,733,615; Oct. 29.
- McCabe, Ira E., Chicago, Ill. Pressure-actuated circuit control. 1,734,015; Oct. 29.
- McCabe, Ira E., Chicago, Ill. Pressure-actuated circuit control. 1,734,016; Oct. 29.
- McCabe, Ira E., Chicago, Ill. Circuit controller. 1,734,017; Oct. 29.
- McCabe, Ira E., Chicago, Ill. Safety pressure-actuated switch. 1,737,859; Dec. 3.
- McCabe, Ira E., Chicago, and R. W. Armstrong, Wilmette, Ill.; said Armstrong assignor of his right to The Arcless Contact Company. Hermetically-sealed electric switch. 1,705,989; Mar. 19.
- McCabe, Joseph J., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Machine for producing lens-grinding tools. 1,711,801; May 7.
- McCabe, Joseph J., assignor to Bausch & Lomb Optical Co., Rochester, N. Y. Lens drill. 1,727,888; Sept. 10.
- McCabe, Joseph J., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-blocking device. 1,727,889; Sept. 10.
- McCabe and Schoenholz, Inc. (See McCabe, C. J., and Schoenholz, assignors.)
- McCaddam, Earl D., San Francisco, Calif. Safety discharge valve for motor-operated transporting tanks and means to selectively actuate the valve. 1,737,933; Dec. 3.
- McCaill, Francis T., Minneapolis, Minn. Convertible glare and auxiliary windshield. 1,701,383; Feb. 5.
- McCaig, William J., assignor to The Republic Metalware Company, Buffalo, N. Y. Ventilating fan. Des. 77,558; Jan. 22.
- McCain, Benjamin Z., Oak Park, and H. L. Thompson, Elgin, Ill., assignors to Addressograph Company, Wilmington, Del. Ejector for addressing and other machines. 1,729,116; Sept. 24.
- McCain, Cecil C. (See Hubbard, H. E., McCain, and Thompson.)
- McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,704,799; Mar. 12.
- McCain, Paul H., assignor to Economy Screw Corporation, Chicago, Ill. Machine for feeding nut blanks and the like. 1,718,166; June 18.
- McCain, Wes W., Oak Park, Ill., assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Carton-blank-feeding mechanism. 1,716,380; June 11.
- McCaleb, Albert G., assignor to Pines Winterfront Company, Chicago, Ill. Locking device. 1,741,161; Dec. 31.
- McCaleb, E. Howard, et al., trustee. (See Smith, Blanchard D., assignor.)
- McCall, Baker S., Bartow, Fla. Luggage carrier. 1,723,798; Aug. 6.
- McCall, Clarence O., Brookfield, Ill. Packing-supporting device. 1,708,481; Apr. 9.
- McCall, John O., Larchmont, assignor to Calsodent Company, Inc., New York, N. Y. Detecting and correcting mouth acidity. 1,717,723; June 18.
- McCall, Robert A., Morgantown, W. Va. Drying rack. 1,701,688; Feb. 12.
- McCall, Thaddeus D., Imperial, Calif. Oil barrel. 1,705,157; Mar. 12.
- McCallum Company, The. (See Wagner, Michael, assignor.)
- McCallum, Glasgow, Scotland, and H. P. H. Anderson, Surrey, England. Steam-power installation. 1,704,441; Mar. 5.
- McCallum, William B., Salinas, Calif. Treating and sowing guayule seed. 1,735,835; Nov. 12.
- McCampbell, Theron, Holmdale, N. J. Garment pattern. 1,710,098; Apr. 23.
- McCandless, Harry E., assignor to Kennedy-McCandless Corporation, Rochester, N. Y. Cover for nursery-chair seats. 1,704,915; Mar. 12.
- McCandless, Harry E., Rochester, N. Y. Infant's folding combination bathtub and dressing table. 1,726,159; Aug. 27.
- McCann, Alfred R., Hamilton, Ohio. Clamping device for open-side planers. 1,704,332; Mar. 5.
- McCann, Arthur A., and C. Stotz, assignors to Diamond Wood Heel & Mfg. Company, St. Louis, Mo. Woodheel-turning machine. 1,700,233; Jan. 29.
- McCann, George B. (See Loxley, Walter M., assignor.)
- McCann, George M., New Castle, Del. Breech mechanism for guns. 1,707,444; Apr. 2.
- McCann, Harry P., Cleveland, Ohio. Apparatus for heating and transfer of articles. Re17,289; May 7.
- McCann, Harry P., Cleveland, Ohio. Heat-treatment furnace. 1,697,129; Jan. 1.
- McCann, Harry P., Cleveland, Ohio. Ventilating system for ovens. 1,717,115; June 11.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,714,918; May 28.
- McCann, William J., Sewickley, Pa. Conveyor table. 1,711,740; May 7.
- McCarron, Lewis H., Sierra Madre, assignor to Electric Sign Flasher Corporation, Los Angeles, Calif. Electric-circuit controller. 1,704,300; Mar. 5.
- McCartan, Edward, New York, N. Y., assignor to Packard Motor Car Company, Detroit, Mich. Radiator-cap ornament. Des. 79,561; Oct. 8.
- McCarter, Thomas K., Galveston, Tex. Cotton-topping machine. 1,730,281; Oct. 1.
- McCarthy, Charles J., et al. (See Coleman, George B., assignor.)
- McCarthy, Charles J., Flushing, and M. Watter, New York, assignors to C. M. Vought, Great Neck, N. Y. Airplane. 1,719,797; July 2.
- McCarthy, Charles M., Minneapolis, Minn. Cutting device for wire cloth. 1,708,585; Apr. 9.
- McCarthy, D. A., et al. (See Krödel, Frank J., assignor.)
- McCarthy, Daniel J., Elgin, assignor to Chicago Railway Signal & Supply Company, Carpentersville, Ill. Locating a light at focal point of lenses. 1,701,626; Feb. 12.
- McCarthy, Daniel J., Elgin, assignor to Chicago Railway Signal & Supply Company, Carpentersville, Ill. Lamp-adjusting device. 1,716,529; June 11.
- McCarthy, Daniel J., Carpentersville, Ill., assignor to Chicago Railway Signal and Supply Company. Railway signal system. 1,741,642; Dec. 31.
- McCarthy, John C. (See Humphreys, C. F., and McCarthy.)
- McCarthy, John E., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Laundry-marking tag. 1,732,024; Oct. 15.
- McCarthy, John H., Chicago, Ill. Rotary engine. 1,717,610; June 18.
- McCarthy, John J., San Francisco, Calif. Renewable dental slab. 1,729,292; Sept. 24.
- McCarthy, Joseph A., Jamaica, N. Y. Flue cap. Des. 78,475; May 7.
- McCarthy, Joseph A., Jamaica, N. Y. Flue and back-draft hood for gas ranges. 1,705,937; Mar. 19.
- McCarthy, Joseph A., Jamaica, N. Y. Soot and grease extractor. 1,722,005; July 23.
- McCarthy, Joseph A., Jamaica, N. Y. Flue cap for gas stoves. 1,737,469; Nov. 26.
- McCarthy, Louis, Boston, Mass., assignor to The Macallen Company. Machine for making composite sheets. 1,740,662; Dec. 24.
- McCarthy, Michael M. (See Lichtenberg, F., and McCarthy.)
- McCarthy, Theodore P., New York, N. Y. Bag holder and display rack. 1,706,307; Mar. 19.
- McCartney, Charles E., Red Bluff, Calif. Concrete wall construction. 1,729,293; Sept. 24.
- McCartney, Joseph, Ithaca, N. Y., assignor of one-half to J. M. Davison, Jr., Philadelphia, Pa. Sanitary font for poultry. 1,699,501; Jan. 15.
- McCartney, Will C., Cambridge, Ohio. Vanity tray. Des. 78,772; June 18.
- McCart, Madison P., assignor of one-half to S. R. Leeson, Dallas, Tex. Indicator system. 1,739,010; Dec. 10.
- McCart, Richard J., Jr., Bethlehem, Pa., assignor to Bethlehem Steel Company. Fluid-conveying system. 1,726,625; Sept. 3.
- McCart, Roy A., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic core. 1,702,448; Feb. 19.
- McCart, William, Alhambra, Tex. Pressure lift for oil wells. 1,710,937; Apr. 30.
- McCash, Perry V., Seattle, assignor to R. I. Frederick, King County, Wash. Automatic electric-current-controlling means. 1,725,928; Aug. 27.
- McCaskell, Jasper A., Salt Lake City, Utah. Filter-cake-discharging apparatus. 1,700,772; Feb. 5.
- McCaskell, Jasper A., Salt Lake City, Utah. Shock absorber. 1,716,497; June 11.
- McCaskey Register Company, The. (See Dunning, William E., assignor.)
- McCaskey Register Company, The. (See Dunning, W. E., and Bachofen, assignors.)
- McCathron, Claude B., assignor to Josiah Antistice & Co., Inc., Rochester, N. Y. Vegetable-peeling machine. 1,730,517; Oct. 8.
- McCaughy, Frank E. (See Clark, Ralph C., assignor.)
- McCauley, Francis P., Westbury, N. Y. Pump. 1,724,766; Aug. 13.
- McCauley, James H., Chicago, Ill. Heating and ventilating plant and method. 1,698,763; Jan. 15.



- McCauley, Patrick L., Manitowoc, Wis. Notion cabinet. 1,704,365; Mar. 5.
- McCauley, John E., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electro-pneumatic interlocking. 1,736,353; Nov. 19.
- McCauley, Karl V., Buffalo, N. Y. Teeming ferrous metals. 1,727,514; Sept. 10.
- McChesney, Cuyler S., Kenmore, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Mold-breaking device. 1,701,859; Feb. 12.
- McChesney, Donald S., Syracuse, N. Y. Loose-leaf binder. 1,737,470; Nov. 26.
- McChesney, Donald S., assignor to Hall & McChesney Inc., Syracuse, N. Y. Loose-leaf binder. 1,720,847; July 16.
- McClanahan, James A., Newbern, Tenn. Display and vending apparatus. 1,706,536; Mar. 26.
- McClaskey, Riley, Idaho Falls, Idaho. Potato digger. 1,738,074; Dec. 3.
- McClatchie, John M., assignor to The Borden Company, New York, N. Y. Apparatus for filling cans and the like. 1,708,482; Apr. 9.
- McClatchie, John M., assignor to The Borden Company, New York, N. Y. Heat-transmission coil. 1,717,395; June 18.
- McClatchie, John M., assignor to The Borden Company, New York, N. Y. Apparatus for feeding caps for cans and the like. 1,721,254; July 16.
- McClatchie, John M., assignor to The Borden Company, New York, N. Y. Pressure regulator for homogenizing devices. 1,734,389; Nov. 5.
- McClatchie, John M., assignor to The Borden Company, New York, N. Y. Mechanism for placing caps on cans. 1,738,783; Dec. 10.
- McClatchie, Stanley, Stuttgart, Germany, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Vacuum cleaners. 1,721,459; July 16.
- McClatchy, John H. (See Adam, Robert M., assignor.)
- McClave, James M., assignor to The Conservo Company, Denver, Colo. Treating oils for distillation. 1,703,158; Feb. 26.
- McCleary, Henry R., Oak Park, Ill., assignor to Wilson Jones Company. Ring book. 1,699,901; Jan. 22.
- McCleary, Henry R., Oak Park, Ill., assignor to Wilson-Jones Company. Loose-leaf-handling device. 1,737,606; Dec. 3.
- McCleary Hydraulic Brake Company. (See Price, William G., assignor.)
- McClellan, Arthur J., Chicago, Ill. Cooking utensil. 1,728,211; Sept. 17.
- McClellan, Harry S., assignor to Chrysler Corporation, Detroit, Mich. Automobile decking. 1,720,634; July 9.
- McClellan, Joseph J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Container for coating material. 1,734,976; Nov. 12.
- McClellan, William, assignor to Steam Production Corporation, New York, N. Y. Burner and nozzle therefor. 1,708,483; Apr. 9.
- McClelland, Alva R., La Manda Park, Calif. Bermuda-grass cutter. 1,704,333; Mar. 5.
- McClelland, Norman E., London, England. Apparatus for removal of soot from the smoke boxes and fire tubes of marine and like boilers. 1,713,767; May 21.
- McClelland, William J. (See Miner, G. H., and McClelland.)
- McClellon, Harold B., administrator. (See McClellon, James M.)
- McClellon, James M., deceased, Everett, Mass.; H. B. McClellon, administrator. Boiler. 1,708,229; Apr. 9.
- McClellon Locomotive Boiler Company. (See Bean, W. L., and Jones, assignors.)
- McClellon Locomotive Boiler Company. (See Jones, Vincent L., assignor.)
- McClenaghan, Walter R. (See Hauserman, E. F., Mowery, McClenaghan, and Murrell.)
- McClenahan, John, Kimball, S. Dak. Fuel mixer. 1,708,843; Apr. 9.
- McClernon, Paul W., Springfield, Mo. Heating and ventilating system. 1,713,768; May 21.
- McClinch, Charles J., Bridgeport, Conn. Window-screen fastener. 1,730,779; Oct. 8.
- McClintock-Marshall Company, et al. (See Tebyrica, Mario W., assignor.)
- McClintock, Charles N., Flint, Mich. Saw-sharpening gauge. 1,708,549; Apr. 9.
- McClintock, Frank, deceased, Grand Junction, Colo.; M. M. McClintock, administratrix. Dishwashing machine. 1,738,839; Dec. 10.
- McClintock, Herbert R., San Diego, Calif., assignor to Russell Parachute Company, Wilmington, Del. Parachute pack. 1,712,307; May 7.
- McClintock, Louis G., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Radiator connection for transformer tanks. 1,735,289; Nov. 12.
- McClintock, Merle M., administratrix. (See McClintock, Frank.)
- McClintock, O. B., Co. (See McClintock, Oliver B., assignor.)
- McClintock, O. B., Company. (See McClintock, O. B., Lawrence, Hanson, and Soderholm, assignors.)
- McClintock, Oliver B., assignor to O. B. McClintock Co., Minneapolis, Minn. Thermometer. Des. 78,580; May 21.
- McClintock, Oliver B., assignor to O. B. McClintock Co., Minneapolis, Minn. Casing head for a thermometer. Des. 78,581; May 21.
- McClintock, Oliver B., E. G. Lawrence, E. C. Hanson, and J. Soderholm, assignors to O. B. McClintock Company, Minneapolis, Minn. After-hour depository. 1,704,865; Mar. 12.
- McCloud, Edward H., Columbus, assignor to The Central Brass and Fixture Company, Springfield, Ohio. Bumper. 1,701,008; Feb. 5.
- McCloud, Edward H., Columbus, assignor to The Central Brass and Fixture Company, Springfield, Ohio. Bumper. 1,710,177; Apr. 23.
- McCloud, Edward H., Columbus, assignor to The Central Brass and Fixture Company, Springfield, Ohio. Bumper. 1,712,671; May 14.
- McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Shutter-operating device. 1,718,752; June 25.
- McCloud, Edward H., and A. Rush, assignors to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting curtains. 1,709,271; Apr. 16.
- McClung, Shannon W., D. L. Boyd, and H. B. Morris, Huntington, W. Va., assignors to S. F. Nichols, Chicago, Ill. Automatic brake-releasing valve. 1,707,636; Apr. 2.
- McClung, Shannon W., D. L. Boyd, and H. B. Morris, Huntington, W. Va., assignors to S. F. Nichols, Chicago, Ill. Automatic brake-releasing valve. 1,730,778; Oct. 8.
- McClure, Edward, assignor of one-half to F. P. Smith, Chicago, Ill. Metal bench. 1,721,601; July 23.
- McClure, Elmer P., Western Springs, Ill., assignor to Aluminum Products Company. Waterless cooker. 1,724,101; Aug. 13.
- McClure, Floyd, Huntersville, N. C. Vending machine. 1,700,374; Jan. 29.
- McClure, Hugh B., Peoria, Ill. Binder folder. 1,731,720; Oct. 15.
- McClure, Ora D., Ishpeming, Mich. Plunger pump. 1,741,643; Dec. 31.
- McClure, Robert E., Warren, Ohio. Golf club. 1,703,199; Feb. 26.
- McClure, Rodney N., Inglewood, Calif. Drapery-rod support. 1,712,834; May 14.
- McClure, William J., and A. F. Klutz, Maiden, N. C. Motor vehicle. 1,730,282; Oct. 1.
- McClurg, William J., Pittsburgh, Pa. Water heater. 1,727,015; Sept. 3.
- McCollough, Herman F., et al. (See Lathrop, Asa, assignor.)
- McCollough, James H., San Jose, Calif. Tractor. 1,738,784; Dec. 10.
- McCollough, William A., Webster City, Iowa. Hog feeder. 1,718,472; June 25.
- McCollow, Alfred F., assignor to The Magee Carpet Co., Bloomsburg, Pa. Block-printing machine. 1,725,717; Aug. 20.
- McCollow, Benjamin F., and C. E. Thomas, Dallas, Tex. Elevating truck. 1,697,364; Jan. 1.
- McCollow, Beverly B., Los Angeles, Calif. Dental articulator. 1,733,507; Oct. 29.
- McCollow, Burton, Washington, D. C., assignor to McCollow Geological Explorations, Inc. Method and apparatus for determining the contour of subterranean strata. Re17,242; Mar. 19.
- McCollow, Burton, Washington, D. C., assignor to McCollow Geological Explorations, Inc. Method and apparatus for determining the slope of subsurface rock boundaries. 1,724,495; Aug. 13.
- McCollow, Burton, Washington, D. C., assignor to McCollow Geological Explorations, Inc. Method and apparatus for studying subsurface contours. 1,724,720; Aug. 13.
- McCollow, Caleb A., deceased, Clairton, by F. W. McCollow, executrix and J. McIntosh, Pittsburgh, Pa. Bin gate. 1,734,686; Nov. 5.
- McCollow, Fencelon, deceased, Mansfield Depot, Conn.; M. L. McCollow, executrix. Organ-pipe foot. 1,712,152; May 7.
- McCollow, Florence W., executrix. (See McCollow, C. A., and McIntosh.)
- McCollow Geological Explorations, Inc. (See McCollow, Burton, assignor.)
- McCollow, Minnie L., executrix. (See McCollow, Fencelon.)
- McCollow, William R., Fort Worth, Tex. Cabinet clothing roll. 1,728,212; Sept. 17.
- McComas, Mark, Denison, assignor of one-half to C. E. Stanton, Dallas, Tex. Window fastener. 1,726,850; Sept. 3.
- McComb, Edward N., Detroit, Mich. Outlet-control valve. 1,735,050; Nov. 12.
- McComb, John F., assignor to Continental Steel Corporation, Kokomo, Ind. Display rack. Des. 78,711; June 11.
- McConkey, Montgomery W. (See Blackmore, L., and McConkey.)
- McConkey, Montgomery W. (See Jones, F. E., and McConkey.)
- McConkey, Montgomery W. (See Lyman, K. E., and McConkey.)
- McConkey, Montgomery W., Ferndale, Mich., assignor to The Bendix Corporation, Chicago, Ill. Four-wheel brake. 1,726,445; Aug. 27.
- McConkey, Montgomery W., assignor to Bendix Brake Company, Chicago, Ill. Braking system. 1,729,887; Oct. 1.
- McConkey, Walter N., and K. V. Smith, Lima, Ohio. Rotary gas engine. 1,722,057; July 23.
- McConnell, Duncan A., Montclair, N. J. Windshield wiper and the like. 1,725,405; Aug. 20.



- McConnell, Herbert E., Bayonne, N. J., assignor to American Radiator Company, New York, N. Y. Clean-out device. 1,730,467; Oct. 8.
- McConnell, James G., Chicago, Ill. Wall bracket for maps. 1,704,755; Mar. 12.
- McConnell, James G., Goshen, Ind. Support for maps or charts. 1,725,009; Aug. 20.
- McConnell, John R. (See Black, J. C., Rial, and McConnell.)
- McConnell, Lewis E., jr., Montclair, N. J., assignor to The W. F. Powers Company, New York, N. Y. Bill file. 1,707,678; Apr. 2.
- McConnell, Lewis E., jr., Montclair, N. J., assignor to The W. F. Powers Company, New York, N. Y. Advertising device. 1,714,884; May 28.
- McConnell, Samuel F., Bloomfield, Iowa. Window screen. 1,708,770; Apr. 9.
- McConnell, Walter J., Cleveland, Ohio. Tool holder. 1,704,395; Mar. 5.
- McConville, Francis B., Princeton, British Columbia, Canada. Ore classifier. 1,726,404; Aug. 27.
- McConway & Torley Company, The. (See McConway, W. J., and Kelso, assignors.)
- McConway, William, jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Railway draft appliance. 1,712,672; May 14.
- McConway, William, jr., and W. Kelso, assignors to The McConway & Torley Company, Pittsburgh, Pa. Car coupling. 1,712,626; May 14.
- McCord, Claude M., Richmond Heights, Mo. Coil-forming machine. 1,725,992; Aug. 27.
- McCord Radiator & Mfg. Co. (See Bailey, Claude B., assignor.)
- McCord Radiator & Mfg. Co. (See Cooper, James H., assignor.)
- McCord Radiator & Mfg. Co. (See Gould, John H., assignor.)
- McCord Radiator & Mfg. Co. (See Grantier, Leslie V., assignor.)
- McCord Radiator & Mfg. Co. (See Hyde, Rollin M., assignor.)
- McCord Radiator & Mfg. Co. (See McCord, William W., assignor.)
- McCord Radiator & Mfg. Co. (See Painter, William A., assignor.)
- McCord Radiator & Mfg. Co. (See Pearsall, William A., jr., assignor.)
- McCord Radiator & Mfg. Co. (See Sperry, Charles F., assignor.)
- McCord, Washington R., Brookfield, Ill. Folding stake or upright for trucks, cars, and the like. 1,738,109; Dec. 3.
- McCord, William W., Wyandotte, assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Electrodepositing apparatus. 1,736,857; Nov. 26.
- McCormack, Alexander A., Dayton, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Sheet-folding apparatus. 1,709,361; Apr. 16.
- McCormack, Charles E., and T. E. Ulrich, Port Jervis, N. Y. Sled-propeller means. 1,706,932; Mar. 26.
- McCormack, Clinton. (See Britton, C., and McCormack.)
- McCormack, George B., assignor of one-half to S. B. Marks, Chicago, Ill. Eyeglass cleaner. 1,723,555; Aug. 6.
- McCormack, Perry R. (See Landrum, John P., assignor.)
- McCormick Brothers Company. (See Brubaker, Ora H., assignor.)
- McCormick Brothers Company. (See Halvorsen, Axel I. S., assignor.)
- McCormick, Edward J., Washington, D. C. Fuse for projectiles. 1,709,272; Apr. 16.
- McCormick, Edward J., Spencer, N. C. Extracting implement. 1,725,814; Aug. 27.
- McCormick, Fred W., Grand Rapids, Mich. Cupboard latch. 1,697,075; Jan. 1.
- McCormick, Hugh M. (See McCormick, Hugh M. and S. W., assignors.)
- McCormick, Hugh M. (See McCormick, Sara W. and H. M.)
- McCormick, Hugh M. and S. W., assignors, by mesne assignments, to H. C. McCormick. Bibelt. 1,719,068; July 2.
- McCormick, John A., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Railway-truck construction. 1,702,266; Feb. 19.
- McCormick, John A., St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Locomotive spring rigging. 1,729,588; Sept. 24.
- McCormick, Lewis J. (See Fulk, J. A., and McCormick.)
- McCormick, Patrick, assignor of one-half to D. Asch, Montreal, Quebec, Canada. Ladder attachment. 1,710,026; Apr. 23.
- McCormick, Sara W. (See McCormick, Hugh H. and S. W.)
- McCormick, Sara W. and H. M., Morenci, Mich.; said S. W. McCormick assignor to said H. M. McCormick. Uplift belt for use with girdles and corset brassiere combinations. 1,722,759; July 30.
- McCormick, Thomas J. (See Hoggard, Scott, assignor.)
- McCosh, James L., Tulare, Calif. Display device. 1,699,367; Jan. 15.
- McCoshen, Guy, Boonton, N. J. Electric advertising device. 1,736,613; Nov. 19.
- McCoubrie, Robert L., Philadelphia, Pa. Box fastening. 1,730,329; Oct. 1.
- McCoy Electric Incubator Company, The. (See McCoy, Frank H., assignor.)
- McCoy, Frank H., assignor to The McCoy Electric Incubator Company, Cleveland, Ohio. Incubator and hatcher. 1,740,741; Dec. 24.
- McCoy, Frank T. (See Webb, Q. C., and Carlton, assignors.)
- McCoy, Harry E., Beechview, assignor to The McDowell Manufacturing Company, Pittsburgh, Pa. Ball-shooting toy. 1,715,166; May 28.
- McCoy, James A., assignor of one-half to C. Birdwell, Hanover, Mont. Vegetable and fruit slicer. 1,713,769; May 21.
- McCoy, James L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,709,031; Apr. 16.
- McCoy, James L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,715,666; June 4.
- McCoy, John J. (See Fankhauser, E. O., and McCoy.)
- McCoy, John J., Milton, Oreg. Sawdust feeder. 1,731,675; Oct. 15.
- McCoy, Robert H., Salt Lake City, Utah. Internal-combustion engine. 1,720,368; July 9.
- McCoy, Ross, Alameda, Calif. Gasoline service station. Des. 77,559; Jan. 22.
- McCoy, Ross, Oakland, Calif. Vending booth. Des. 78,773; June 18.
- McCoy, William, Zanesville, Ohio, assignor to American Encaustic Tiling Company, Ltd., New York, N. Y. Wall and floor tile. 1,702,912; Feb. 19.
- McCoy, William C., Cleveland, assignor to The W. G. Nagel Electric Company, Toledo, Ohio. Electrical indicating instrument. 1,705,158; Mar. 12.
- McCoy, William C., assignor to The Cleveland Trust Company, Cleveland, Ohio. Electrical indicating instrument and system of control therefor. 1,713,850; May 21.
- McCoy, William C., assignor to The Cleveland Trust Company, Cleveland, Ohio. Electrical indicating instrument. 1,719,556; July 2.
- McCoy, William W., Cincinnati, Ohio. Shoe structure. 1,730,228; Oct. 1.
- McCracken, Arnold. (See Parrish L. A., Erickson, and McCracken.)
- McCracken, Harry S., Chicago, Ill. Paper file. 1,737,053; Nov. 26.
- McCracken, Lollie, Santa Ana, Calif. Connector. 1,737,506; Nov. 26.
- McCracken, Robert C., St. Louis, assignor of one-half to N. Stewart, Webster Groves, Mo. Tube cleaner. 1,712,835; May 14.
- McCracken, William H., Birmingham, Ala. Soft hammer. 1,711,505; May 7.
- McCracken-Ripley Co. (See McManamna, Gerald P., assignor.)
- McCraw, William S., assignor of one-half to W. E. Broer, Toledo, Ohio. Automatic heat regulator. 1,732,565; Oct. 22.
- McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Internal-combustion engine. 1,697,987; Jan. 8.
- McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Internal-combustion engine. 1,717,162; June 11.
- McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Selective-speed-transmission mechanism. 1,717,163; June 11.
- McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Making tractor-wheel lugs. 1,721,602; July 23.
- McCray, Harold E., assignor to John Deere Tractor Company, Waterloo, Iowa. Internal-combustion engine. 1,727,016; Sept. 3.
- McCrea, George E., San Francisco, Calif. Airplane. 1,739,798; Dec. 17.
- McCrea, Robin D., San Francisco, Calif. Traffic button. 1,698,957; Jan. 15.
- McCready, Paul C., Tulsa, Okla. Fishing tool. 1,727,074; Sept. 3.
- McCready, Robert W., Ingersoll, Ontario, Canada. Restaurant. Des. 80,136; Dec. 17.
- McCready, William W., Tampa, Fla. Cutter tool. 1,700,205; Jan. 29.
- McCreary, John T. (See McArthur, Clarence M., assignor.)
- McCreery, Thomas R., Brooklyn, N. Y. Safety razor. 1,724,496; Aug. 13.
- McCrery, Harold E., assignor to Apollo Holding Corporation, Apollo, Pa. Roll heater. 1,699,902; Jan. 22.
- McCrery, Harold E., Apollo, assignor to Pittsburgh Steel Drum Company, Pittsburgh, Pa. Metal shipping drum. 1,713,612; May 21.
- McCretton, George, assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Chain attachment. 1,740,992; Dec. 24.
- McCrink, Joseph, West Orange, N. J. Demountable-rim tool. 1,728,943; Sept. 24.
- McCrory, Lee, et al. (See Baker, George, assignor.)
- McCrory Stores Corporation. (See McCrory, Van C., assignor.)
- McCrory, Van C., Leonia, N. J., assignor to McCrory Stores Corporation, New York, N. Y. Display counter. 1,702,408; Feb. 19.



- McCrory, Van C., Leonia, N. J., assignor to McCrory Stores Corporation, New York, N. Y. Griddle. 1,710,586; Apr. 23.
- McCrosky, Bynum B., Oakland, Calif. Doll eyes. 1,729,729; Oct. 1.
- McCrosky, Fred B., Los Angeles, Calif. Check valve. 1,700,234; Jan. 29.
- McCue, Chrystal C., Goodells, Mich. Fountain pen. 1,720,369; July 9.
- McCue, Edwin J., Brooklyn, N. Y. Electrical soldering device. 1,701,894; Feb. 12.
- McCuen, Charles L., assignor to Perfection Engineering Company, Detroit, Mich. Apparatus for purifying lubricating oil. 1,720,084; July 9.
- McCuen, Charles L., Chicago, Ill., assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,720,797; July 16.
- McCuen, Charles L., Lansing, assignor to General Motors Corporation, Detroit, Mich. Oil pump and distributor drive. 1,731,823; Oct. 15.
- McCulley, Claude, and L. E. Ruehlmann, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body construction. 1,703,118; Feb. 26.
- McCulloch, James E., Kensington, Md. Eyeshade. 1,715,612; June 4.
- McCulloch, Leon, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Getter for vacuum devices. 1,729,888; Oct. 1.
- McCullough, Elzadore S., and A. B. Smith, Fairmont, W. Va. Drilling tool and detachable bit. 1,733,382; Dec. 3.
- McCullough, Ervin W., and T. Nolen, Indianapolis, Ind. Dewatering vehicle. 1,704,917; Mar. 12.
- McCullough, Frederick S., Wilkinsburg, Pa. Method of and apparatus for coating cathodes. 1,733,082; Oct. 22.
- McCullough, Ira J., Walnut Park, Calif. Outside drill-pipe cutter. 1,709,141; Apr. 16.
- McCullough, Ira J., Walnut Park, Calif. Pipe cutter. 1,731,388; Oct. 15.
- McCullough, Ira J., and M. S. Black, Huntington Park, Calif. Apparatus for perforating pipe or the like. 1,697,960; Jan. 8.
- McCullough, Ira J., and M. S. Black, Huntington Park, Calif. Perforating pipe or the like. 1,731,930; Oct. 15.
- McCullough, Paul J., assignor to Scullin Steel Co., St. Louis, Mo. Lifting magnet. 1,727,553; Sept. 10.
- McCune, Joseph C. (See Farmer, C. C., and McCune.)
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,074,892; Mar. 5.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,703,893; Mar. 5.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,707,273; Apr. 2.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. 1,711,645; May 7.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load valve device. 1,723,191; Aug. 6.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car-door interlock. 1,723,192; Aug. 6.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,727,404; Sept. 10.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric coupling. 1,733,196; Oct. 29.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Split reduction device. 1,739,602; Dec. 17.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor valve. 1,739,603; Dec. 17.
- McCurdy, Clifford H. (See McCurdy, Raymond V. and C. H.)
- McCurdy, Raymond V. and C. H., Lincoln, Nebr. Floor polisher. 1,716,453; June 11.
- McCurdy, Sanford M., Ada, Ohio. Smoker's utensil. 1,727,351; Sept. 10.
- McCurdy, Sanford M., Ada, Ohio. Chick-raising coop. 1,733,382; Oct. 29.
- McCurdy, William A., Virginia, Minn. Safety car coupler. 1,704,050; Mar. 5.
- McCurley, Thomas T., Kansas City, Mo. Fishing appliance. 1,729,646; Oct. 1.
- McCutchen, John E., assignor to The Coleman Lamp and Stove Company, Wichita, Kans. Oil-burning device. 1,718,473; June 25.
- McCutchen, John H., Memphis, Tenn. Vending machine for stationary. 1,698,644; Jan. 8.
- McCutcheon, Eva., Brooklyn, N. Y. Aluminum wardrobe trunk. 1,702,052; Feb. 12.
- McCutcheon, James D., Pittsburgh, Pa. Cutting torch. 1,721,569; July 23.
- McCutcheon, John T., Gainesville, Tex. Oil filter. 1,723,945; Aug. 6.
- McCutcheon, Labanna T. (See Hackstaff, J. D., and McCutcheon.)
- McCutcheon, Margaret M., New Rochelle, N. Y. Shredder. 1,728,801; Sept. 17.
- McDaniel, Charles W., Portsmouth, N. H. Lathe-tool holder. 1,730,156; Oct. 1.
- McDaniel, George, Seminole, Okla. Child's vehicle. 1,728,427; Sept. 17.
- McDaniel, Hillery A., Mexia, Tex. Pipe joint. 1,707,312; Apr. 2.
- McDermet, John R., Jeannette, assignor to Elliott Company, Pittsburgh, Pa. Method and apparatus for the treatment and utilization of superheated steam. 1,714,179; May 21.
- McDermott, Aloysius L. and G. E., Maywood, Ill. Chain for automobiles and means for applying the same. 1,697,776; Jan. 1.
- McDermott, Charles J., et al., executors. (See Scott, R. W., and Page.)
- McDermott, Frank A., Claymont, assignor to Eastern Alcohol Corporation, Wilmington, Del. Producing fusel oil by fermentation. 1,725,084; Aug. 20.
- McDermott, Frank A., Claymont, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of glycerin by fermentation. 1,725,363; Aug. 20.
- McDermott, Gertrude E. (See McDermott, Aloysius L. and G. E.)
- McDermott, Harold R., Waterloo, Iowa. Unstepped frequency audiometer. 1,697,076; Jan. 1.
- McDermott, Harry H., Chicago, Ill., assignor to The Prosperity Company Inc., Syracuse, N. Y. Operative mechanism for steam presses. 1,722,638; July 30.
- McDermott, Thomas S., assignor to Clark-Cutler-McDermott Company, Franklin, Mass. Needed felt fabric. 1,737,807; Dec. 3.
- McDonald, Alexander, Pittsburgh, and W. O. Smith, Wilkinsburg, assignors of seventy per cent to J. C. Young, Pittsburgh, Pa. Chimney ventilator. 1,700,905; Feb. 5.
- McDonald, Charles D., Los Angeles, Calif. Applicator cabinet. 1,701,955; Feb. 12.
- McDonald, Charles D., Los Angeles, Calif. Flesh-reducing machine. 1,701,956; Feb. 12.
- McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Thread-rolling machine. 1,719,230; July 2.
- McDonald, Clarence T., and H. R. Cook, assignors to Chicago Jefferson Fuse & Electric Company, Chicago, Ill. Cartridge fuse. 1,702,353; Feb. 19.
- McDonald, Clarence T., and H. R. Cook, assignors to Chicago Jefferson Fuse & Electric Co., Chicago, Ill. Cartridge fuse. 1,702,355; Feb. 19.
- McDonald, Donald, Davenport, Iowa. Dry hand mop. 1,710,099; Apr. 23.
- McDonald, Frank M., New York, N. Y. Vehicular life and property safety device. 1,720,660; July 16.
- McDonald, George A., Pasadena, Calif. Composing stick. 1,732,762; Oct. 22.
- McDonald, Gordon R., Schenectady, N. Y., assignor to General Electric Company. Differential frequency relay. 1,698,316; Jan. 8.
- McDonald, James, assignor to Todd Dry Dock Engineering & Repair Corporation, Brooklyn, N. Y. Oil-burning furnace. 1,710,370; Apr. 23.
- McDonald, James J., San Jose, Calif. Radio wave trap. 1,736,614; Nov. 19.
- McDonald, John H., Mamberg, N. Dak. Ticket-issuing machine. 1,716,381; June 11.
- McDonald, Leslie R., Montreal, Quebec, Canada. Airplane-launching appliance. 1,732,524; Oct. 22.
- McDonald, Louis N., Youngstown, Ohio. Furnace-port construction. 1,735,256; Nov. 12.
- McDonald Machine Co. (See McDonald, Charles D., assignor.)
- McDonald, Malcolm, Orenco, Oreg. Card index and file. 1,735,581; Nov. 12.
- McDonald, Marshall T. (See Zagarino, W. C., and McDonald.)
- McDonald, Patrick, Westville, Ill. Acetylene-gas generator. 1,712,392; May 7.
- McDonald, Richard A., assignor to Western Waxed Paper Company, Oakland, Calif. Air-tight liner for egg crates. 1,737,319; Nov. 26.
- McDonald, Roland G., East Rochester, N. Y. Measuring and mixing device. 1,741,325; Dec. 31.
- McDonald, Ruby, et al. (See Faulhaber, Charles, assignor.)
- McDonald Securities Co. (See Bessee, Frank E., assignor.)
- McDonald Securities Company. (See McDonald, William H., assignor.)
- McDonald, Theodore V., Detroit, Mich. Bulkhead-door arrangement. 1,725,094; Aug. 20.
- McDonald, Thomas J., Philadelphia, Pa. Washing machine. 1,719,336; July 2.
- McDonald, William, River Forest, assignor to Swift & Company, Chicago, Ill. Egg-cleaning machine. 1,730,157; Oct. 1.
- McDonald, William H., Overton, Nev., assignor to McDonald Securities Company, Ltd. Advertising apparatus. 1,713,140; May 14.
- McDonnell, Allan J., Vancouver, British Columbia, Canada, assignor, by mesne assignments, to Hydrojax Incorporated, Seattle, Wash. Hydraulic jack. Re17,270; Apr. 16.
- McDonnell, William E. (See Stickel, C. W., and McDonnell.)
- McDonnell, Anthony F., Dunmore, Pa. Collar. 1,710,371; Apr. 23.
- McDonnell, Anthony F., Dunmore, Pa. Bottle and bottle cap. 1,714,686; May 28.



- McDonnell, Anthony F., Dunmore, Pa. Double-lock bottle cap. 1,722,587; July 30.
- McDonnell, Anthony F., Dunmore, Pa. Double-lock crown cap. 1,724,213; Aug. 13.
- McDonnell, Clement J., Titusville, Pa. Wrist pin. 1,712,627; May 14.
- McDonnell, Frank W., Brooklyn, N. Y., assignor to Aluminum Screw Machine Products Company, Edgewater, N. J. Electrical condenser. 1,734,178; Nov. 5.
- McDonnell, George A., Everett, Mass. Bedclothes holder. 1,732,852; Oct. 22.
- McDonnell, William R., Seattle, Wash. Vehicle brake. 1,740,993; Dec. 24.
- McDonough, Alexander J. (See Garlius, Bernt, assignor.)
- McDonough, Francis T., assignor to Gisholt Machine Company, Madison, Wis. Recording amplitude meter for dynamic balancing machines. 1,712,508; May 14.
- McDonough, Henry, Elgin, Ill. Mechanism for boring connecting-rod bearings. 1,712,628; May 14.
- McDonough, John H., Dallas, Tex., and O. Mitchell, Brookline, Mass., assignors to The Murray Company, Dallas, Tex. Cotton cleaner. 1,728,501; Sept. 17.
- McDonough, Joseph G., New Orleans, La. Lumber-grade-marking machine. 1,715,167; May 28.
- McDonough, Joseph G., New Orleans, La. Lumber marker. 1,715,207; May 28.
- McDonough, Joseph G., Eau Claire, Wis. Lumber and timber marking machine. 1,715,206; May 28.
- McDonough, Laurence E., assignor to Maxant Button and Supply Company, Chicago, Ill. Pedal-operated press. 1,721,917; July 23.
- McDonough, Victor S., Richmond, Ind. Grease cups. 1,707,128; Mar. 26.
- McDougal, Albert. (See Lurcott, Winfred N., assignor.)
- McDougal, Floyd R., Lacona, N. Y. Animal trap. 1,712,893; May 14.
- McDougal, Taine G., assignor to A C Spark Plug Company, Flint, Mich. Continuous tunnel kiln. 1,710,995; Apr. 30.
- McDougal, Taine G., assignor to A C Spark Plug Company, Flint, Mich. Heat treatment and apparatus therefor. 1,713,851; May 21.
- McDougal, Taine G., assignor to A C Spark Plug Company, Flint, Mich. Tunnel-kiln construction. 1,713,852; May 21.
- McDougall, Allan J., Denver, Colo. Automobile trunk. 1,716,827; June 11.
- McDougall, Charles, Allentown, Pa. Nut lock. 1,701,488; Feb. 5.
- McDougall Company. (See Coulter, John M., assignor.)
- McDougall, Edward S., Montreal, Quebec, Canada. Receptacle top. 1,723,799; Aug. 6.
- McDougall, Shirley A., assignor to Dextora Company, Indianapolis, Ind. Making food product. 1,705,332; Mar. 12.
- McDowell, David W. (See Mottinger, B. T., and McDowell.)
- McDowell, George, Franklin Square, assignor to one-half to F. Grozinger, Brooklyn, N. Y. Internal-combustion engine. 1,707,679; Apr. 2.
- McDowell, George, Franklin Square, assignor to one-half to F. Grozinger, Brooklyn, N. Y. Manifold for internal-combustion engines. 1,720,683; July 16.
- McDowell, Lamont A., assignor to Hupp Motor Car Corporation, Detroit, Mich. Door construction. 1,720,913; July 16.
- McDowell Manufacturing Company, The. (See McCoy, Harry E., assignor.)
- McDowell, Marie. (See McDowell, Thomas J., assignor.)
- McDowell, Thomas J., assignor to one-half to M. McDowell, Sidell, Ill. Score indicator. 1,706,308; Mar. 19.
- McEachern, Malcolm, Springvale, Me. Dredging apparatus. 1,719,668; July 2.
- McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Candlestick holder or similar article. Des. 77,971; Mar. 12.
- McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Compote or similar article. Des. 78,835; June 25.
- McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Powder-puff box or similar article. Des. 79,236; Aug. 20.
- McElhannon, Houston. (See Gilliland, R. L., and McElhannon.)
- McElroy, Frank C., Columbus, Ohio. Switch device for vehicle direction signals. 1,716,595; June 11.
- McElroy, John H. (See Brown, Reinhardt H., assignor.)
- McElroy, John H., Chicago, Ill. Making hangers. 1,698,139; Jan. 8.
- McElroy, John H., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Sheet-caliper mechanism. 1,731,633; Oct. 15.
- McElroy, Robert L., et al. (See Walker, Charles M., assignor.)
- McElroy, William A., San Francisco, Calif. Roller-bearing ankle joint for artificial limbs. 1,698,372; Jan. 8.
- McElvain, Samuel M., Madison, Wis. Piperidine derivative and producing the same. 1,714,180; May 21.
- McEnery, Frank C., assignor to one-third to L. Bernhard and one-third to H. E. Richter, Columbus, Ohio. Removable wedge bolt. 1,711,099; Apr. 30.
- McEntire, George P., Topeka, Kans. Display stand for mattresses. 1,716,862; June 11.
- McEntyre, Kent K., Calhoun, assignor to one-half to M. L. Upshaw, Rydal, Ga. Knockdown crate. 1,697,466; Jan. 1.
- McEvoy, Joseph H., jr. (See McEvoy, Joseph H. and J. H., jr.)
- McEvoy, Joseph H., jr., Houston, Tex. Plug for strainer pipes. 1,715,508; June 4.
- McEvoy, Joseph H., jr., Houston, Tex. Well screen. 1,715,856; June 4.
- McEvoy, Joseph H., Houston, Tex. Packer for wells. 1,734,040; Nov. 5.
- McEvoy, Joseph H. and J. H., jr., Houston, Tex. Making strainer buttons. 1,699,798; Jan. 22.
- McEwan, Andrew J., Tulsa, Okla. Pressure-regulating valve. 1,707,866; Apr. 2.
- McEwan, Andrew J., Tulsa, Okla. Pressure-regulating valve. 1,716,705; June 11.
- McEwan, Andrew J., Tulsa, Okla. Automatic stop cock. 1,734,687; Nov. 5.
- McEwan, William W., Detroit, assignor to The J. B. Ford Company, Wyandotte, Mich. Washing machine. 1,717,724; June 18.
- McEwen, Alva. (See McEwen, Robert M. and A.)
- McEwen, Robert M. and A., McComb, Miss. Hinge construction. 1,700,638; Jan. 29.
- McEwen, Samuel, London, England, assignor, by mesne assignments, to International Coal Carbonization Company. Carbonization of coal. Re17,181; Jan. 1.
- McEwen, Samuel, London, England, assignor, by mesne assignments, to International Coal Carbonization Company. Carbonization or destructive distillation. Re17,182; Jan. 1.
- McEwen, Samuel M., University, Va. Subsoiler and aerator. 1,739,765; Dec. 17.
- McFadden, Emerson C., Short Hills, N. J. Drafting instrument. 1,723,517; Aug. 6.
- McFadden, Eura P., Kennett, Mo. Rake attachment. 1,715,613; June 4.
- McFadden, Glenn E., Kansas City, Mo. Decorative metal panel for an electric-lighting fixture or similar article. Des. 77,972; Mar. 12.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture chandelier. Des. 78,218; Apr. 9.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 78,219; Apr. 9.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 78,302; Apr. 16.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture chandelier. Des. 78,476; May 7.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket. Des. 78,477; May 7.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket. Des. 78,774; June 18.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture chandelier. Des. 79,039; July 23.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,040; July 23.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture chandelier. Des. 79,041; July 23.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,042; July 23.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Chandelier or analogous lighting fixture. Des. 79,731; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,732; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Chandelier or analogous lighting fixture. Des. 79,733; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,734; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Chandelier or analogous lighting fixture. Des. 79,735; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Chandelier or analogous lighting fixture. Des. 79,736; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,737; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,738; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Chandelier or analogous lighting fixture. Des. 79,739; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,740; Oct. 29.
- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Chandelier or analogous lighting fixture. Des. 79,890; Nov. 12.



- McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 79,891; Nov. 12.
- McFadden, Guy D., Pittsburgh, Pa. Light fixture. Des. 77,701; Feb. 12.
- McFadden, Samuel R., Moundsville, W. Va. Chain tightener. 1,709,534; Apr. 16.
- McFall, Thurlow E., assignor to Sparta Foundry Company, Sparta, Mich. Molding machine. 1,740,775; Dec. 24.
- McFarland, Randall, assignor to The Wm. Powell Co., Cincinnati, Ohio. Air gun and method of making it. 1,722,056; July 23.
- McFarland, Charles P., et al. (See Culbreath, David C., assignor.)
- McFarland, Ernest H., assignor of one-third to J. A. Hodges, Louisville, N. C., one-sixth to F. M. Hodges, Richmond, Va., and one-sixth to J. M. Hodges, Fayetteville, N. C. Air-testing device. 1,711,238; Apr. 30.
- McFarland, Francis W., Martinez, and W. R. Long, Bay Point, Calif. Signal for railroad crossings. 1,698,410; Jan. 8.
- McFarland, John A., Ladonia, Tex. Grass-root exterminator. 1,708,732; Apr. 9.
- McFarland, John H., Merrill, assignor of one-fourth to F. B. Walcott, Wheeler, Mich. Conditioning beans. 1,707,360; Apr. 2.
- McFarland, Numan H., Lubbock, Tex. Vegetable-slicing machine. 1,740,472; Dec. 24.
- McFarland, Robert E., Malmo, Nebr. Tank heater. 1,736,658; Nov. 19.
- McFarland, Ross, Portland, Oreg. Nail file. 1,706,581; Mar. 26.
- McFarlane, Hugh, Scottsville, Va. Differential gearing for four-wheel-drive constructions. 1,716,073; June 4.
- McFarlane, Maynard D., New York, N. Y., and H. G. Bartholomew, London, England. Method of and tape for reproducing pictures or the like. 1,731,345; Oct. 15.
- McFarlane, Maynard L. D. (See Bartholomew, H. G., and McFarlane.)
- McFarlin, John R., assignor to Electric Service Supplies Company, Philadelphia, Pa. Latching mechanism. 1,723,290; Aug. 6.
- McFayden, James W. (See Woodling, J. W., and McFayden.)
- McGahey, Robert E., Alexandria, Va. Dump-car door lock. 1,714,797; May 28.
- McGain, John, Marrickville, near Sydney, New South Wales, Australia. Line marker for tennis courts and the like. 1,700,639; Jan. 29.
- McGall, Philip K., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,711,646; May 7.
- McGann, George J., Warwick, R. I., assignor to Slasher Rolls Co., Boston, Mass. Rinsing machine. 1,722,813; July 30.
- McGarrity, Joseph R., Irvington, N. J. Inkstand or similar article. Des. 77,620; Jan. 29.
- McGarry, John T., Cincinnati, Ohio. Railway water column. 1,718,245; June 25.
- McGarry, John T., Cincinnati, Ohio. Railway water column. 1,718,246; June 25.
- McGarty, James, New York, N. Y., assignor to Craftsmen Products Co. Inc. Film-reel holder. 1,728,244; Sept. 17.
- McGarvey, William J., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Cooking vessel. 1,701,384; Feb. 5.
- McGarvey, William J., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Cooking vessel. 1,727,075; Sept. 3.
- McGavack, John, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating rubber dispersions and products obtained thereby. 1,730,518; Oct. 8.
- McGavack, John, Jackson Heights, assignor to General Rubber Company, New York, N. Y. Treating rubber latex. 1,740,994; Dec. 24.
- McGavack, John, Jackson Heights, N. Y., and R. A. Shive, Wilmington, Del., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Preserving rubber latex and product thereof. 1,699,368; Jan. 15.
- McGavack, John, Jackson Heights, N. Y., and R. A. Shive, Bellemoor, Del., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Preserving rubber latex. 1,699,369; Jan. 15.
- McGee, Cecil. (See Durbin, F. A., and McGee.)
- McGee, Daniel W., Fort Worth, Tex., assignor of seventy-six one-hundredths to F. J. Hart, Tarrant County, Tex. Sash attachment. 1,707,867; Apr. 2.
- McGee, Donald W., Chicago, Ill. Lubricator. 1,714,181; May 21.
- McGee, Earl, Catonsville, Md., assignor to Standard Gas Equipment Corporation. Stopcock or valve. 1,715,168; May 28.
- McGee, Edgar L., Scottdale, assignor to Boyts, Porter & Co., Connellsville, Pa. Valve. 1,742,043; Dec. 31.
- McGee, Frank R., Steubenville, Ohio. Jack. 1,702,356; Feb. 19.
- McGee, Frank R., Steubenville, Ohio. Hot-blast stove. 1,724,848; Aug. 13.
- McGee, Mary E., et al. (See Eldridge, Hillary, assignor.)
- McGee, Roland L., St. Paul, Minn. Boxing figure toy. 1,736,163; Nov. 19.
- McGee, William C., Gastonia, assignor to B. A. Smith, Kings Mountain, N. C. Multiple lubricating means for spinning frames and the like. 1,727,311; Sept. 3.
- McGee, William L., Media, Pa. Combined casing for a floor-polishing brush and handle therefor. Des. 77,492; Jan. 15.
- McGehee, Charles T., assignor of one-half to The Standard Rice Company, Inc., Houston, Tex. Polishing machine. 1,707,198; Mar. 26.
- McGeorge, John. (See Lang, H. O., and McGeorge.)
- McGhee, James F., Moorestown, N. J., assignor to American Machinery Corporation, Philadelphia, Pa. Fruit-cleaning machine. 1,718,056; June 18.
- McGhee, Thurman, Hayward, and P. Woodhead, Oakland, Calif., assignors, by direct and mesne assignments, to Sprague-Sells Corporation, Hoopeston, Ill. Filling valve. 1,731,585; Oct. 15.
- McGhie, Charles G. (See Connors, Thomas F., assignor.)
- McGibbon, Albert D., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 1,706,627; Mar. 26.
- McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Gasoline locomotive. 1,719,515; July 2.
- McGill, Allen L. (See Schroeder, William G., assignor.)
- McGill, Andrew D. (See Wright, S. M., and McGill.)
- McGill, Arthur A., Wisner, Nebr. Wrench. 1,697,535; Jan. 1.
- McGill, Arthur A., Wisner, Nebr. Sliding-jaw tool. 1,717,725; June 18.
- McGill, Arthur A., Wisner, Nebr. Wrench. 1,717,726; June 18.
- McGill, Chester T., assignor to Reiter Company, Elgin, Ill. Base-exchange filter and softener. 1,697,835; Jan. 1.
- McGill, Chester T., assignor to Reiter Company, Elgin, Ill. Hot and cold water single-line supply system. 1,698,342; Jan. 8.
- McGill, Chester T., assignor to Reiter Company, Elgin, Ill. Chemical filter and base-exchange softener. 1,698,890; Jan. 15.
- McGill, Chester T., assignor to Elgin Softener Corporation, Elgin, Ill. Base-exchange water softener and filter. 1,703,451; Feb. 26.
- McGill, Chester T., assignor to Elgin Softener Corporation, Elgin, Ill. Sanitary base-exchange water softener. 1,704,051; Mar. 5.
- McGill, Chester T., assignor to Elgin Softener Corporation, Elgin, Ill. Deconcentrator. 1,704,989; Mar. 12.
- McGill, Elizabeth, Wellsville, Kans. Copyholder for typewriters. 1,738,718; Dec. 10.
- McGill Manufacturing Company. (See Despard, V. R., and Popp, assignors.)
- McGill, William J. (See Sullivan, F. W., jr., McGill, and Walker.)
- McGillivray, Hugh S., Charleston, S. C. Door knocker. Des. 78,401; Apr. 30.
- McGilveray, William, Duluth, Minn. Camp table. 1,702,876; Feb. 19.
- McGinley, Frederick D., and W. K. Zinsmeister, Syracuse, N. Y. Antiskid device for vehicle wheels. 1,716,927; June 11.
- McGinley, James M., Fort Worth, assignor of twenty-seven and one-half per cent to W. L. McGinley, San Antonio, and seventy-two and one-half per cent to Tray Service Company, Dallas, Tex. Service tray for soda fountains and the like. 1,738,535; Dec. 10.
- McGinley, W. L., et al. (See McGinley, James M., assignor.)
- McGinness, Joseph E., Pittsburgh, Pa. Golf-ball marker. 1,701,981; Feb. 12.
- McGinness, Joseph E., Pittsburgh, Pa. Golf-ball marker. 1,721,965; July 23.
- McGinnis, John A. (See Davis, W. T., and McGinnis.)
- McGinnis, Lucy, and E. I. Pearce, Kansas City, Mo. Hose protector and cover for chair seats. 1,729,352; Sept. 24.
- McGlynn, John M., Jackson Heights, N. Y., and T. F. V. McGlynn, Philadelphia, Pa. Nut lock. 1,719,069; July 2.
- McGlynn, Thomas F. V. (See McGlynn, John M. and T. F. V.)
- McGoogan, Lee L., St. Pauls, N. C. Storage rack. 1,705,129; Mar. 12.
- McGowan, Edward M., Toledo, Ohio. Dispensing container. 1,731,721; Oct. 15.
- McGowan, Joseph M. (See Durning, M. J., and McGowan.)
- McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. Des. 178,643; May 28.
- McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper bracket. 1,716,318; June 4.
- McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Shock-absorbing device. 1,741,162; Dec. 31.
- McGrane, James L., Buffalo, N. Y. Direction-indicating signal for automobiles. 1,703,775; Feb. 26.
- McGranigan, John R., Philadelphia, Pa. Fireproof door. 1,711,239; Apr. 30.
- McGrath, Jeremiah J., Springfield, Mass. Electric saw for cutting plaster casts. 1,719,557; July 2.
- McGrath, William, et al. (See Alexander, Arthur S., assignor.)



- McGrath, William C., Brooklyn, N. Y. Mirror support. Des. 78,529; May 14.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,705,938; Mar. 19.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,705,939; Mar. 19.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,707,488; Apr. 2.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,718,424; June 25.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,723,291; Aug. 6.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,737,802; Dec. 3.
- McGraw, Charles R. (See McGraw, James E., sr., C. R., and T. J.)
- McGraw, James E., sr., C. R., and T. J., Brea, Calif. Center iron. 1,727,890; Sept. 10.
- McGraw, Thomas J. (See McGraw, James E., sr., C. R., and T. J.)
- McGregor, Carl, et al. (See Purdy, Benjamin H., assignor.)
- McGregor, Eunice. (See Harrison, Annie, assignor.)
- McGregor, James A., assignor to The Vitreous Enameling Company, Cleveland, Ohio. Drain board. 1,728,502; Sept. 17.
- McGrew, Earl E., assignor to McGrew Machine Company, Lincoln, Nebr. Awning support. Re17,253; Apr. 2.
- McGrew, Earl E., assignor to McGrew Machine Company, Lincoln, Nebr. Automobile awning. 1,731,634; Oct. 15.
- McGrew, Edna. (See Ritchie, B., and McGrew.)
- McGrew, John A. (See Dougherty, R. S. A., and McGrew.)
- McGrew, John A., Albany, N. Y. Mechanism for operating valves and the like. 1,708,145; Apr. 9.
- McGrew, John A., Albany, N. Y. Tie plate and rail fastener. 1,709,731; Apr. 16.
- McGrew, John A., Albany, N. Y. Entrainment mechanism. 1,710,427; Apr. 23.
- McGrew, John A., Albany, N. Y. Tie plate and rail fastener. 1,710,587; Apr. 23.
- McGrew, John A., Albany, N. Y. Rail joint. 1,721,784; July 23.
- McGrew, John A., Albany, N. Y. Rail joint. 1,738,075; Dec. 3.
- McGrew, John A., Albany, N. Y., assignor to Bethlehem Steel Company. Engine-frame construction. 1,702,478; Feb. 19.
- McGrew, John A., Albany, N. Y., assignor to Bethlehem Steel Company. Gearing. 1,703,942; Mar. 5.
- McGrew, John A., Albany, N. Y., assignor to Bethlehem Steel Company. Tractor-truck gearing. 1,710,372; Apr. 23.
- McGrew, John A., Albany, N. Y., assignor to Bethlehem Steel Company. Tractor-truck gearing. 1,717,054; June 11.
- McGrew Machine Company. (See McGrew, Earl E., assignor.)
- McGrew, William T. (See Manley, Job R., assignor.)
- McGuign, Dan E., trustees, et al. (See Brown, Charles S., assignor.)
- McGuinness, William V., Flushing, and J. M. Chulstrom, Elmhurst, assignors to The Western Union Telegraph Company, New York, N. Y. Automatic selective pneumatic-tube-carrier relay. 1,733,026; Oct. 22.
- McGuire, Bernard H., Los Angeles, Calif. Stuffing-box gland. 1,740,997; Dec. 24.
- McGuire, Donald D. (See Hansard, O. H., and McGuire.)
- McGunnigle, Harold A., assignor to Artilite, Inc., New York, N. Y. Apparatus for altering the shape and size of a projected beam of light. 1,709,626; Apr. 16.
- McHarry, William, Chelsea, England. Internal-combustion engine. 1,697,876; Jan. 8.
- McHenry, Dwight T., Topeka, Kans. Steering-wheel brake for vehicles. 1,701,504; Feb. 12.
- McHenry, Irving, River Forest, assignor to Mid-States Gummed Paper Co., Chicago, Ill. Package and dispenser for gummed tape. 1,708,701; Apr. 9.
- McHenry, Samuel B., Bloomsburg, Pa. Current motor. 1,726,405; Aug. 27.
- McHugh, Austin G., Youngstown, Ohio. Mandrel changing and cooling machine. 1,714,131; May 21.
- McHugh, William P., St. Louis, Mo. Combined amplifying and television device. Des. 78,775; June 18.
- McIlhenney, Horace R., Rahway, assignor to Vulcan De-ninning Company, Sewaren, N. J. Production of sodium stannate. 1,708,392; Apr. 9.
- McIlhenney, James S., Washington, D. C. Gas-shut-off valve. 1,734,631; Nov. 5.
- McIlvaine, John H., Lake Forest, Ill. Liquid-fuel-feeding apparatus. 1,705,263; Mar. 12.
- McIlvaine, William P., Yakima, Wash. Saw table. 1,735,773; Nov. 12.
- McIlveney, Patrick, Auckland, New Zealand. Safety device for electrical heating apparatus. 1,706,798; Mar. 26.
- McIlwaine, Henry A., et al. (See Schnek, Herman, assignor.)
- McIlvried, Edwin J., Bay Village, Ohio. Insulator cap. 1,707,489; Apr. 2.
- McInerney, Peter J., Dallas, Tex., assignor, by mesne assignments, to J. N. Heltzel, Warren, Ohio. Building concrete-surfacing structures. Re17,361; July 2.
- McInerney, Peter J., Dallas, Tex., assignor, by mesne assignments, to J. N. Heltzel, Warren, Ohio. Concrete joint form. Re17,465; Oct. 22.
- McInnes, J. T. (See Brammer, Anthony C., assignor.)
- McInnes, J. T., et al. (See Brammer, Anthony C., assignor.)
- McIntire, Charles V., East Orange, N. J., assignor to Consolidation Coal Products Company, Wilmington, Del. Oredust treatment. 1,711,153; Apr. 30.
- McIntire, Charles V., East Orange, N. J., assignor to Consolidation Coal Products Company, Wilmington, Del. Distillation apparatus. 1,733,747; Oct. 29.
- McIntosh, Burnett, Floral Park, assignor to Frank A. Hall & Sons, New York, N. Y. Table for hospital beds. 1,719,614; July 2.
- McIntosh, Burnett, Floral Park, assignor to Frank A. Hall & Sons, New York, N. Y. Hospital bed. 1,731,251; Oct. 15.
- McIntosh, Burnett, Floral Park, assignor to Frank A. Hall & Sons, New York, N. Y. Bed. 1,731,252; Oct. 15.
- McIntosh, Donald H., Salt Lake City, Utah, assignor of one-half to G. L. Oldright. Treatment of ores. 1,737,888; Dec. 3.
- McIntosh, Frank E. (See Booth, Alba C., assignor.)
- McIntosh, Frederick B., Alexandria, near Sydney, assignor to Heel Covering Machines Limited, Sydney, Australia. Method of and apparatus for attaching covers to heels of boots and shoes. 1,709,224; Apr. 16.
- McIntosh, Frederick F., Glen Osborne, Pa., assignor to Crucible Steel Company of America. Alloy steel. 1,730,780; Oct. 8.
- McIntosh, Harry E., Big Rapids, Mich. Device for resurfacing valve seats. 1,701,329; Feb. 5.
- McIntosh, James. (See McCollum, C. A., and McIntosh.)
- McIntosh, James, Norristown, assignor to Diamond State Fibre Company, Bridgeport, Pa. Treating fibrous material. 1,697,077; Jan. 1.
- McIntosh, Peter E., assignor of one-eighth to C. R. Allen, Kalamazoo, Mich. Boiler plug. 1,713,345; May 14.
- McIntosh, Robert D. (See Dorsey, P., and McIntosh.)
- McIntosh, Robert D., River Forest, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Welding torch. 1,699,851; Jan. 22.
- McIntosh, Robert D., River Forest, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Cutting and welding torch. 1,734,589; Nov. 5.
- McIntosh & Seymour Corporation. (See Ritter, Paul A., assignor.)
- McIntyre, Alexander B., assignor to A. E. Monell, Pasadena, Calif. Price-tag supporting strip. 1,736,123; Nov. 19.
- McIntyre, Andrew G., Walden, assignor to Mactile Machine Co., Inc., Elmont, N. Y. Block or tile making machine or the like. 1,711,359; Apr. 30.
- McIntyre, Brouwer D., Monroe, Mich. Heater for motor vehicles. 1,712,673; May 14.
- McIntyre, Brouwer D., Monroe, Mich. Auto heater. 1,725,878; Aug. 27.
- McIntyre, Brouwer D., Monroe, Mich. Automobile heater. 1,732,103; Oct. 15.
- McIntyre, James K., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Thrust bearing. 1,712,277; May 7.
- McIntyre, Malcolm, Cranford, N. J., assignor, by mesne assignments, to Carnegie Steel Company. Bin-gate-operating mechanism for distributing lorries. 1,727,172; Sept. 3.
- McIntyre, Thomas A., San Francisco, Calif. Automobile mechanism. 1,719,274; July 2.
- McIsaac, John T., East Weymouth, Mass. Shoe and insole therefor. 1,693,599; Jan. 8.
- McJury, John G., Batavia, N. Y. Tilttable steering wheel. 1,709,085; Apr. 16.
- McKaig-Hatch, Inc. (See Friedl, Hugh J., assignor.)
- McKain, Edward, Los Angeles, Calif. Separator. 1,719,119; July 2.
- McKain, Edward, Los Angeles, Calif. Grain cutter. 1,721,183; July 16.
- McKash, A. T., et al. (See Harris, George R., assignor.)
- McKay, Augusta P., assignor to Towers & Sullivan Manufacturing Co., Rome, Ga. One-way plowing harrow. 1,713,476; May 14.
- McKay, Augusta P., assignor to Towers & Sullivan Manufacturing Co., Rome, Ga. Disk plow and frame for same. 1,722,850; July 30.
- McKay, Charles H., assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Saw construction. 1,699,746; Jan. 22.
- McKay, Charles H., assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Saw tooth construction. 1,699,747; Jan. 22.
- McKay, Donald H., Orange, assignor of one-fourth to T. Ahlborn and one-fourth to J. H. Shively, Houston, Tex. Drill. 1,727,297; Sept. 3.
- McKay, Frank R., et al. (See Fowler, Daniel E., assignor.)
- McKay, H. V., Proprietary Limited. (See McKay, Hugh V., assignor.)
- McKay, H. V., Proprietary Limited. (See Taylor, H. S., and McKay, assignors.)
- McKay, H. V., Proprietary, Limited. (See Taylor, Headlie S., assignor.)
- McKay, Hugh V. (See Taylor, H. S., and McKay.)



- McKay, Hugh V., Sunshine, assignor to H. V. McKay Proprietary Limited, Sunshine, Australia. Straw-cutting attachment for harvesters. 1,697,925; Jan. 8.
- McKay, Joseph, assignor to Hall, Hartwell & Co., Inc., Troy, N. Y. Fold-over collar and making the same. 1,720,848; July 16.
- McKeag, Charles E., Los Angeles, Calif. Fire-department hand tool. 1,703,856; Feb. 26.
- McKeag, Charles E., Los Angeles, Calif. Rubber-sponge body-rubber device. 1,714,687; May 28.
- McKeag, Charles E., Los Angeles, Calif. Crutch cushion. 1,732,763; Oct. 22.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Yarn-tension device. 1,708,514; Apr. 9.
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Slub catcher. 1,734,690; Nov. 5.
- McKechnie, Robert R. (See Loew, P. W. and McKechnie.)
- McKee, Arthur G., & Company. (See Baker, Robert E., assignor.)
- McKee, Arthur G., & Company. (See Holmquist, Carl W., assignor.)
- McKee, Arthur G., & Company. (See Siebert, C. T., and Walter, assignors.)
- McKee, Garnet W., Rockford, Ill. Control device. 1,713,707; May 21.
- McKee, Garnet W., Rockford, Ill. Cooling well for burners. 1,729,447; Sept. 24.
- McKee, Garnet W., Rockford, Ill. Multistage fuel mixer. 1,739,161; Dec. 10.
- McKee, Harold B., Springfield, Ill. Burial vault. 1,727,242; Sept. 3.
- McKee, James A., Belfast, Ireland. Track for dog racing and the like. 1,730,519; Oct. 8.
- McKee, James H., Harvey, Ill. Overhead garage door. 1,721,501; July 23.
- McKee, James H., Harvey, Ill. Overhead garage door. 1,722,250; July 23.
- McKee, Neal T., Bronxville, assignor to American Throttle Company, Inc., New York, N. Y. Locomotive arrangement. 1,712,928; May 14.
- McKee, Neal T., Bronxville, N. Y. Locomotive smoke-box arrangement. 1,729,838; Oct. 1.
- McKee, Neal T., Bronxville, assignor to American Throttle Company, Inc., New York, N. Y. Locomotive. 1,739,160; Dec. 10.
- McKee, Philip L., Chicago, Ill. Building construction. 1,728,688; Sept. 17.
- McKee, Philip L., Chicago, Ill. Splicing for rafter draining members. 1,728,689; Sept. 17.
- McKee, Philip L., Chicago, Ill. Greenhouse construction. 1,728,690; Sept. 17.
- McKee, Ralph H., Leonia, N. J., assignor to Southern Electro-Chemical Company, New York, N. Y. Nitric-acid concentration. 1,740,549; Dec. 24.
- McKee, Ralph H., Jersey City, N. J., and S. P. Burke, New York, N. Y. Making alkyl halides. 1,738,193; Dec. 3.
- McKee, Ralph H., and S. P. Burke, New York, assignors of one-half to R. L. Brown, Syracuse, N. Y., and one-half to W. W. Odell, Pittsburgh, Pa. Making higher alcohols. 1,738,785; Dec. 10.
- McKee, Ralph J., assignor to Chicago Manufacturing & Distributing Company, Chicago, Ill. Transporting device. 1,736,795; Nov. 26.
- McKee, Ralph J., and W. F. Scheffler, assignors to Chicago Manufacturing & Distributing Company, Chicago, Ill. Traffic marker. 1,736,830; Nov. 26.
- McKee, Robert, Philadelphia, Pa. Closure for cans and like receptacles. 1,715,169; May 28.
- McKee, Robert G., Indianapolis, Ind. Clear-vision device for windshields. 1,702,877; Feb. 19.
- McKee, Willis, Cleveland, Ohio, assignor to Central National Bank of Cleveland. Reversing valve. 1,729,623; Oct. 1.
- McKeefe, Edward P. (See Bradley, L., and McKeefe.)
- McKeehan, Louis W., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Metallic element. 1,738,307; Dec. 3.
- McKeen, Richard T., Chicago, Ill. Apparatus for loading and transporting bulk material. 1,697,322; Jan. 1.
- McKellip, Spencer W., Philadelphia, assignor to Wirt Company, Germantown, Pa. Adjustable electromagnetic unit. 1,697,323; Jan. 1.
- McKelvey, Carlton A. (See Bucknell, H., jr., Chapin, and McKelvey.)
- McKelvey, Frank G., Easton, Pa., and J. E. Bell, deceased, Brooklyn, N. Y.; L. R. Bell, executrix. Waste-heat-boiler plant. 1,707,964; Apr. 2.
- McKendrick, William D., South Pasadena, Calif. Powder insufflator. 1,732,566; Oct. 22.
- McKenna Brass & Manufacturing Company. (See Enz, Henry M., assignor.)
- McKenna Brass & Manufacturing Company. (See Shields, Patrick W., assignor.)
- McKenna, Charles B., New York, N. Y. Valve. 1,741,198; Dec. 31.
- McKenna, Harvey E., River Rouge, Mich. Key locking device. 1,718,299; June 25.
- McKenna, Michael J., Jersey City, N. J. Mechanical automobile instructor. 1,723,744; Aug. 6.
- McKenna, Philip M., assignor to Vanadium Alloys Steel Company, Latrobe, Pa. Hard alloy and manufacturing the same. 1,737,255; Nov. 26.
- McKenna Process Company of Illinois. (See Langford, George, assignor.)
- McKenna, William, Cincinnati, Ohio, assignor to Albert Pick & Company, Chicago, Ill. Steam cooker. Re17,336; June 25.
- McKenzie, Henry J., Cleveland, Ohio. Automatic grid-pasting machine. 1,706,799; Mar. 26.
- McKenzie, Lewis J., Minneapolis, Minn. Buck anchor. 1,725,406; Aug. 20.
- McKenzie-Marty, Edward C., Short Hills, N. J., assignor to Standard Oil Development Company. Protective device. 1,697,199; Jan. 1.
- McKenzie-Marty, Edward C., Short Hills, N. J., assignor to Standard Development Company. Fluid-tight joint. 1,715,854; June 4.
- McKenzie Mortar Company. (See Harrison, Douglas M., assignor.)
- McKeon, John J., assignor, by mesne assignments, to Tolhurst Machine Works, Inc., Troy, N. Y. Treating floatant materials. 1,739,162; Dec. 10.
- McKeown, William C., Baltimore, Md. Apparatus for utilizing fluid fuels. 1,741,725; Dec. 31.
- McKesson, Elmer I., Toledo, Ohio. Respirator. Re17,512; Dec. 3.
- McKesson & Robbins, Incorporated. (See Coster, Frank D., assignor.)
- McKesson & Robbins, Incorporated. (See Danco, Leon A., assignor.)
- McKesson, William C., Chicago, Ill. Oil-burning apparatus. 1,741,868; Dec. 31.
- McKibbin, Joe S., Culleoka, Tenn. Wrench. 1,709,589; Apr. 16.
- McKibbin, Joe S., Columbia, Tenn. Wrench. 1,730,671; Oct. 8.
- McKinlay, Edward S., assignor to McKinlay Mining and Loading Machine Company, Denver, Colo. Mining and loading machine. 1,726,963; Sept. 3.
- McKinlay Mining and Loading Machine Company. (See McKinlay, Edward S., assignor.)
- McKinley, Benjamin H. (See Reardon, Edwin M., assignor.)
- McKinney, Charles W., assignor of one-half to T. E. Johnson, Amarillo, Tex. Clothespin. 1,700,069; Jan. 22.
- McKinley, Charles W., assignor to A C Spark Plug Company, Flint, Mich. Filter. 1,723,053; Aug. 6.
- McKinley, Charles W., assignor to A C Spark Plug Company, Flint, Mich. Oil filter. 1,723,054; Aug. 6.
- McKinley, Charles W., assignor to A C Spark Plug Company, Flint, Mich. Fuel pump. 1,738,786; Dec. 10.
- McKinley, Melvin, assignor to The Coshocton Glove Company, Coshocton, Ohio. Die placing and shifting. 1,733,463; Oct. 29.
- McKinley, Oscar L., Demopolis, Ala. Glare shield. 1,737,934; Dec. 3.
- McKinley, Thomas C., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing and flattening sheet glass. 1,731,253; Oct. 15.
- McKinney, Anna M., Purgettstown, Pa. Clothes prop. 1,726,446; Aug. 27.
- McKinney, Francis B., Baldwin Township, Allegheny County, and C. H. Allen, Pittsburgh, assignors to Auto Brakeometer Corporation, Pittsburgh, Pa. Automobile brake tester. 1,719,516; July 2.
- McKinney, Harold F. (See Steinmetz, C. R. and McKinney.)
- McKinney, Jesse, Dunkirk, Ind. Heating apparatus. 1,736,796; Nov. 26.
- McKinney, John C., Minneapolis, Minn. Hotel clerk's room and information rack. 1,739,850; Dec. 17.
- McKinney Manufacturing Company. (See Horton, Clement E., assignor.)
- McKinney Manufacturing Company. (See Woernle, Harry E., assignor.)
- McKinney Manufacturing Company. (See Wread, William E., assignor.)
- McKinney, Samuel L., Peoria, Ill. Safety appliance for elevators. 1,732,193; Oct. 15.
- McKinney, William H., jr., Memphis, Tenn. Toilet appliance. 1,701,115; Feb. 5.
- McKinney, William H., jr., Memphis, Tenn., assignor to Cotton Buckle & Tag Co., Inc. Toilet appliance. 1,701,114; Feb. 5.
- McKinstry, Arthur L. (See Simonds, R. H., Bernheim, and McKinstry.)
- McKissen, Basil, Crawford, Colo. Plow. 1,727,243; Sept. 3.
- McKissick, Frank, Tupman, Calif. Oil-well pump. 1,733,896; Oct. 29.
- McKissick, William H., Tulsa, Okla. Safety sheave block. Re17,211; Feb. 12.
- McKissick, William H., Tulsa, Okla. Becket. 1,702,218; Feb. 12.
- McKissick, William H., Tulsa, Okla. Safety-sheave block. 1,707,560; Apr. 2.
- McKlusky, John, New Haven, Conn. Internal-combustion engine. 1,705,130; Mar. 12.
- McKnight, Charles, jr., Montclair, T. H. Wickenden, Roselle, N. J., and P. D. Mercia, assignors to The International Nickel Company, New York, N. Y. Nickel manganese steel alloy and treating the same. 1,697,130; Jan. 1.
- McKnight, Charles C., La Marida, and F. H. Koch, Los Angeles, Calif. Pipe-cutting apparatus and method. 1,737,889; Dec. 3.
- McKnight, Robert I., and P. A. Reutter, assignors to Scovill Manufacturing Company, Waterbury, Conn. Vent. 1,709,182; Apr. 16.



- McKone, Leo J., Detroit, Mich. Connecting-rod structure. Re17,265; Apr. 9.
- McKone, Leo J., Minneapolis, Minn. Piston ring. 1,710,485; Apr. 23.
- McKown, Frederick W. (See Hanson, O. B., Crisson, and McKown.)
- McKown, George W. (See Miller, E. S., Stambaugh, and McKown.)
- McLachlan, Norman W., assignor to Wireless Music Limited, London, England. Loud speaker. 1,699,903; Jan. 22.
- McLanahan-Stone Machine Company. (See Krider, George E., assignor.)
- McLane, Joseph A., Washington, D. C., assignor, by mesne assignments, to Peoples Natural Gas Company. Burner for heating furnaces. 1,704,508; Mar. 5.
- McLaren-Consolidated Cone Corporation. (See Roberts, Webster M., assignor.)
- McLaren, David B. (See Furnivall, W. H. G., McLaren, and Laschinger.)
- McLaren, Malcolm W. (See Cole, H. W., and McLaren.)
- McLaren, Malcolm W., Jackson Heights, N. Y., assignor, by mesne assignments, to Fyre Freez Corporation. High-pressure valve. 1,713,671; May 21.
- McLaren, William W., Birmingham, Ala. Thermostatic control. 1,715,464; June 4.
- McLaren, William W., Birmingham, Ala. Tube system. 1,719,231; July 2.
- McLaren, William W., Birmingham, Ala. Making master records. 1,734,139; Nov. 5.
- McLarney, E. A., et al. (See Londino, Joseph, assignor.)
- McLaughlan, Leonard R., Los Angeles, Calif. Vacuum brake for airplanes. 1,710,938; Apr. 30.
- McLaughlin, D. J., et al. (See Stebler, William J., assignor.)
- McLaughlin, Eugene B., Newark, N. J. Signaling letter-slot device for doors. 1,716,558; June 11.
- McLaughlin, Frank, assignor to Marion Fredenberg, Toronto, Ontario, Canada. Fishing bait. 1,723,193; Aug. 6.
- McLaughlin, Frank, assignor to M. Fredenberg, Toronto, Ontario, Canada. Dispensing container. 1,728,298; Sept. 17.
- McLaughlin, Herrold L. (See McLaughlin, Wilson L. and H. L.)
- McLaughlin, James E., assignor to Brown Company, Berlin, N. H. Electrode installation for electric furnaces. 1,715,376; June 4.
- McLaughlin, Mack F., Effingham, S. C. Supporting attachment for jacks. 1,700,295; Jan. 29.
- McLaughlin, Milton P., Wakefield, assignor of one-fourth to W. S. Lake, Melrose, Mass. Locking nuts. 1,720,799; July 16.
- McLaughlin, Philip S., Forty Fort, Pa. Amusement apparatus. 1,718,167; June 18.
- McLaughlin, William E., assignor to The Barkelew Electric Manufacturing Co., Middletown, Ohio. Dimming apparatus for automobiles. 1,714,389; May 21.
- McLaughlin, William E., assignor to The Barkelew Electric Manufacturing Company, Middletown, Ohio. Dimming apparatus. 1,723,745; Aug. 6.
- McLaughlin, William F., and A. J. Swing, Bloomfield, N. J., assignors to Automatic Film Machine Corporation, New York, N. Y. Arcuate film splice. 1,728,974; Sept. 24.
- McLaughlin, William F., and A. J. Swing, Bloomfield, N. J., assignors to Automatic Film Machine Corporation, New York, N. Y. Film-splicing machine. 1,734,140; Nov. 5.
- McLaughlin, William F., and A. J. Swing, Bloomfield, N. J., assignors to Automatic Film Machine Corporation, New York, N. Y. Film splicer. 1,734,141; Nov. 5.
- McLaughlin, William F., and A. J. Swing, Bloomfield, N. J., assignors to Automatic Film Machine Corporation, New York, N. Y. Film splicer and rewinder. 1,734,142; Nov. 5.
- McLaughlin, William I., assignor to Standard Oil Company, San Francisco, Calif. Core barrel. 1,701,724; Feb. 12.
- McLaughlin, Wilson L. and H. L., Des Moines, Iowa. Water-softener machine. 1,726,083; Aug. 27.
- McLaughlin, Wilson L. and H. L., assignors to A. J. Miller, Des Moines, Iowa. Water-softener device. 1,726,082; Aug. 27.
- McLaurin, William W., Brookfield, Mass. Testing machine. 1,715,093; May 28.
- McLaurin, William W., Brookfield, Mass. Gummed paper and manufacturing the same. 1,719,712; July 2.
- McLauthlin, George T., Company. (See Dodd, John W., assignor.)
- McLavy, John R. (See Potter, T. W., McNamara, Lambers, and McLavy.)
- McLean, Annie E., Sarasota, Fla. Making rugs from cabbage-palmetto fiber. 1,732,372; Oct. 22.
- McLean, Augustus L., Asheville, N. C. Air cleaner. 1,713,880; May 21.
- McLean, David W., Los Angeles, Calif. Dental apparatus. 1,705,223; Mar. 12.
- McLean, George, Los Angeles, Calif. Holder for wire. 1,699,005; Jan. 15.
- McLean, George A., New York, N. Y. Portable washing machine. 1,709,142; Apr. 16.
- McLean, George E., New York, N. Y. Fabric for hats. 1,697,877; Jan. 8.
- McLean, Harry L. (See Blatch, F. H., McLean, and Menzies.)
- McLean, John H., assignor to Economy Baler Company, Ann Arbor, Mich. Baling press. 1,737,194; Nov. 26.
- McLean, Leland O., Pittsburgh, Pa. Control mechanism for power shovels, hoists, cranes, and the like. 1,711,896; May 7.
- McLean, Marie, Los Angeles, Calif. Cleaning composition. 1,735,774; Nov. 12.
- McLean, William A., Pine Grove, Ontario, Canada. Attachment for metal vises. 1,718,864; June 25.
- McLendon, Thomas O., and J. H. Irving, Valdosta, Ga. Piston ring. 1,732,978; Oct. 22.
- McLeod, Clifford J., Quincy, Mass. Shock-absorbing device for valves. 1,731,344; Oct. 15.
- McLeod, Earl H., Rutherford, N. J., assignor to The Ault & Wiborg Company of New York, New York, N. Y. Making inorganic oxides. 1,726,851; Sept. 3.
- McLeod, Earl H., Rutherford, N. J., assignor to The Ault & Wiborg Company of New York, New York, N. Y. Making inorganic oxides. 1,726,852; Sept. 3.
- McLeod, Lorne M., et al., executors. (See Arbon, Paul.)
- McLeod, Warren H., Boulder, Colo. Golf tee. Des. 78,530; May 14.
- McLeod, Warren H., Boulder, Colo. Golf tee. 1,738,596; Dec. 10.
- McLeskey, Ada H., Anderson, S. C. Attachment for stoves. 1,708,424; Apr. 9.
- McLimans, John P., and H. S. Cress, Duluth, Minn. Method and apparatus for coating surfaces. 1,729,728; Oct. 1.
- McMachen, Marion F. (See McMachen, William H. and M. F.)
- McMachen, William H. and M. F., Superior, Wis. Oil purifier. 1,698,600; Jan. 8.
- McMachen, William H. and M. F., Superior, Wis. Oil purifier. 1,730,581; Oct. 8.
- McMahan, Emmet H., deceased, Ventura, Calif.; M. McMahan, executrix. Oil-well-sealing device. 1,735,330; Nov. 12.
- McMahan, Mabel, executrix. (See McMahan, Emmet H.)
- McMahan, Mion. (See Connell, N. H., and McMahan.)
- McMahan, Wm. H., Company. (See Stanert, Rowland, assignor.)
- McMahon, John F., assignor to Yellow Taxi Corp., New York, N. Y. Automobile body lamp. Des. 79,298; Aug. 27.
- McMahon, William F., Riverside, Calif. Pump piston. 1,740,931; Dec. 24.
- McManaman, Patrick. (See Namet, J., and McManaman.)
- McManamay, Charles A., Beckwith, W. Va. Roof. 1,715,243; May 28.
- McManamna, Gerald P., assignor to McCracken-Ripley Co., Portland, Ore. Refractory gun. 1,704,623; Mar. 5.
- McManis, Fred, assignor to W-K-M Company, Houston, Tex. Tractor attachment for pipe cleaners. 1,740,663; Dec. 24.
- McManus, Charles E., assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Channel for automobile windows and windshields. 1,699,490; Jan. 15.
- McManus, Charles E., assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Tin-plate-spotting machine. 1,740,697; Dec. 24.
- McMenimen, H. N. (See De Felice, Carlo, assignor.)
- McMillan Book Company. (See McMillan, John L., assignor.)
- McMillan, Duncan, Gibbs, Saskatchewan, Canada. Tilting headlight. 1,705,624; Mar. 19.
- McMillan, Herbert W., Lachine, Quebec, Canada. Angle-spacing attachment for multiple-punching machines. 1,702,740; Feb. 19.
- McMillan, Herbert W., Lachine, Quebec, Canada. Drilling and reaming machine. 1,712,894; May 14.
- McMillan, Herbert W., Lachine, Quebec, Canada. Spacing attachment for angle-punching machines. 1,715,244; May 28.
- McMillan, Howard O., Minneapolis, Minn. Wire-cutting device. 1,700,174; Jan. 29.
- McMillan, John L., assignor to McMillan Book Company, Syracuse, N. Y. Transferring device. 1,736,164; Nov. 19.
- McMillan, John L., assignor to McMillan Book Company, Syracuse, N. Y. Index leaf. 1,736,165; Nov. 19.
- McMillan, Wesley K., San Francisco, Calif., assignor to American Tractor Equipment Company, Oakland, Calif. Wheeled lifting scraper. 1,713,048; May 14.
- McMinn, Ira F., Daytona Beach, Fla. Register. 1,699,006; Jan. 15.
- McMinn, Preston K., Little Rock Ark. Ventilating and heating attachment for stoves. 1,700,414; Jan. 29.
- McMullan, Samuel, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand-working mechanism. 1,706,702; Mar. 26.
- McMullan, Samuel, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-spooling apparatus. 1,720,739; July 16.
- McMullen, Frederick L., Milwaukee, Wis. Pants or trousers construction. 1,701,049; Feb. 5.
- McMullen, Gertrude S. (See Johnson, I. P., and McMullen.)
- McMullen, John, Buffalo, N. Y. Safety brake-beam support for railway trucks. 1,727,835; Sept. 10.
- McMullen, John, Buffalo, N. Y., assignor to E. P. Smith, Springfield, Ill. Support for brake hangers. 1,701,536; Feb. 12.
- McMullen, John, Buffalo, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,725,659; Aug. 20.



- McMullen, Ralph W., Detroit, Mich. Fire-extinguisher safety holder. 1,727,213; Sept. 3.
- McMullen, Roger B., Jr. (See Lyman, K. E., and McMullen.)
- McMullen, Roger B., Jr. (See Lyman, K. E., McMullen, and Lane.)
- McMullen, Roger B., Jr., Evanston, assignor to Automatic Transmission Company, Rockford, Ill. Automatic transmission. 1,741,858; Dec. 31.
- McMurphy, Harry L., Brampton, Ontario, Canada. Hockey boot. 1,707,129; Mar. 26.
- McMurray, Eugene V., Taft, Calif. Pipe tap. 1,701,786; Feb. 12.
- McMurray, Joseph, Hawthorne, N. J. Button-breaker roll. 1,730,520; Oct. 8.
- McMurray, William G., assignor to M. & V. Tank Company, Wichita Falls, Tex. Gas trap and flow tank. 1,710,178; Apr. 23.
- McMurray, William G., assignor to M. & V. Tank Co., Wichita Falls, Tex. Combination clean-out and man-hole cover. 1,720,370; July 9.
- McMurray, William G., assignor to M & V Tank Company, Wichita Falls, Tex. Thief-hole cover. 1,739,911; Dec. 17.
- McMurry, Fred R. (See Weaver, A., and McMurry.)
- McMurtry, Edward A., Chicago, Ill. Radio crystal detector. 1,711,174; Apr. 30.
- McMurtry Manufacturing Company, The. (See Scheide-man, Henry A., assignor.)
- McMyler Interstate Company, The. (See Kaltenbach, Robert W., assignor.)
- McNab Absorbolift, Inc. (See McNab, Alexander, as signor.)
- McNab, Alexander, Bridgeport, Conn. Reversing rudder. 1,704,996; Mar. 5.
- McNab, Alexander, assignor to McNab Absorbolift, Inc., New York, N. Y. Jack. 1,731,254; Oct. 15.
- McNabb, Joseph H., Winnetka, assignor to The Bell & Howell Company, Chicago, Ill. Optical device. 1,723,701; Aug. 6.
- McNabb, Roy V., Rardin, Ill. Hog ringer. 1,710,742; Apr. 30.
- McNair, George H. S., Essex Fells, N. J. Projecting images and apparatus therefor. 1,704,756; Mar. 12.
- McNairy, Jacob W., Schenectady, N. Y., assignor to General Electric Company. Circuit controller. 1,706,124; Mar. 19.
- McNairy, Jacob W., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,710,939; Apr. 30.
- McNally, Charles S., Philadelphia, Pa. Dispenser. 1,724,721; Aug. 13.
- McNally, Charles S., Philadelphia, Pa. Dispenser. 1,741,326; Dec. 31.
- McNamara, Denis, New York, N. Y. Punching bag. 1,703,012; Feb. 19.
- McNamara, John S., assignor to Van Vlaanderen Machine Company, Paterson, N. J. Spray nozzle. 1,725,993; Aug. 27.
- McNamara, Leo C. (See Potter, T. W., McNamara, Lam-mers, and McLavy.)
- McNamara, Michael W. P., Chicago, Ill. Fishplate. 1,700,507; Jan. 29.
- McNamara, Michael W. P., Chicago, Ill. Fishplate. 1,717,727; June 13.
- McNamara, Patrick J., assignor of one-half to T. B. Torkelson, Bowman, N. Dak. Scraper. 1,697,988; Jan. 8.
- McNamer, Harry C. (See Tefft, Henry B., assignor.)
- McNaughton, Lawrence M. (See Bell, John A., assignor.)
- McNaughton, Orin J., Mulliken, Mich. Method of stack-ing vines. 1,717,611; June 18.
- McNeal, Daniel R., et al. (See Harris, Edward M., as-signor.)
- McNear, Egerton B., Needham, assignor to G. W. McNear, Inc., Boston, Mass. Automobile trunk rack. 1,718,205; June 18.
- McNear, George W., Inc. (See McNear, Egerton B., as-signor.)
- McNear, John A. (See Roe, Alpheus E., assignor.)
- McNee, George, Belwood, Ontario, Canada. Bottle stop-per. 1,728,355; Sept. 17.
- McNeil, Charles, Glasgow, Scotland. Heat-exchanging de-vise. 1,740,192; Dec. 17.
- McNeil, Everett A., Kenosha, Wis. Weight-operated switch. 1,737,471; Nov. 26.
- McNeil, Robert L., Oakland, assignor to General Motors Corporation, Detroit, Mich. Trimming die. 1,717,612; June 18.
- McNeil, Ronald S., Newark, N. J., assignor to General Electric Company. Method of and apparatus for pro-ducing a fuel mixture of predetermined calorific value. 1,719,898; July 9.
- McNeill, Frederic, Forest Park, assignor to Boiler Room Improvement Co., Chicago, Ill. Liquid-level indicator. 1,699,075; Jan. 15.
- McNeill, Frederic, assignor to Boiler Room Improvement Co., Chicago, Ill. Liquid-level indicator. 1,733,616; Oct. 29.
- McNeill, Henry W., Sinton, Tex. Four-way valve for cotton gins. 1,733,897; Oct. 29.
- McNeill, James S., assignor of one-half to P. H. Lively, Wewoka, Okla. Drill bit. 1,733,311; Oct. 29.
- McNeill, Robert J., Hopkinton, Iowa. Dropping plate for corn planters. 1,730,672; Oct. 8.
- McNelles, Philip H., Detroit, Mich. Automobile brake. 1,711,321; Apr. 30.
- McNellis, John C. (See Martin, F. L., Hughes, and Mc-Nellis.)
- McNerney, Barnard L., Minneapolis, Minn. Electric motor. 1,725,203; Aug. 20.
- McNiff, Louise A. (See McNiff, Michael F., assignor.)
- McNiff, Michael F., deceased, Chicago, Ill.; L. A. McNiff, administratrix, assignor to L. A. McNiff. Shoe con-struction. 1,727,244; Sept. 3.
- McNinch, William T., Chicago Heights, assignor to Ameri-can Manganese Steel Company, Chicago, Ill. Wedge-fit tooth point. 1,729,889; Oct. 1.
- McNulty, Frank P., Los Angeles, Calif. Scraping device for footwear. 1,718,428; June 25.
- McNulty, Richard J., Boston, Mass. Regulator valve for pipe lines. 1,714,182; May 21.
- McNulty, Thomas J., Brookhaven, Miss. Packing for re-ciprocating pistons. 1,717,114; June 11.
- McNutt, Joseph D. (See Schuricht, A. G., and McNutt.)
- McNutt, Joseph D., assignor, by mesne assignments, to Winchester Repeating Arms Company, New Haven, Conn. Mercury fulminate and treating same. 1,718,371; June 25.
- McNutt, Joseph D., New Haven, Conn., assignor, by mesne assignments, to Winchester Repeating Arms Company. Noncorrosive priming mixture. 1,718,370; June 25.
- McPartland, Hugh V., New York, assignor of one-half to O. C. Moll, Brooklyn, N. Y. Ozonator. 1,725,661; Aug. 20.
- McPhail, G. R. (See Buckle, Carl H., assignor.)
- McPhee, Donald A., Victoria, British Columbia, Canada. Aerial transportation system. 1,714,183; May 21.
- McPhee, James W. (See Hooper, A. C., and McPhee.)
- McQuaid, John W., Fillmore, Calif. Piston. 1,718,474; June 25.
- McQuay-Norris Manufacturing Company. (See Mummert, Arden J., assignor.)
- McQuay-Norris Manufacturing Company, et al. (See Schmitt, Henry, assignor.)
- McQuay Radiator Corporation. (See Scott, Clifford E., assignor.)
- McQuistan, Duncan A., Walthill, Nebr. Automatic venti-lator. 1,737,054; Nov. 26.
- McQuiston, Arnel F., Taft, Calif., assignor to Elliott Core Drilling Company. Plug for core drills. 1,737,256; Nov. 26.
- McQuiston, Frederick. (See Richey, F. M., and McQuis-ton.)
- McRae, Philip. (See Buck, F. H., and McRae.)
- McRea, John S., Bayside, Long Island, assignor to Portable Light Company, Inc., New York, N. Y. Portable search-light. 1,736,203; Nov. 19.
- McRedmond, Gordon C. (See Graves, J. H., and McRed-mond.)
- McRell, Harry F., Pittsfield, Mass., assignor to General Electric Company. Magnetic core. 1,731,861; Oct. 15.
- McReynolds, Rarrel B., et al. (See Soss, Peter H., as-signor.)
- McShaffrey, Thomas E., Akron, Ohio. Expansion joint. 1,702,788; Feb. 19.
- McShane Bell Foundry Company. (See Cary, Wilson M., Jr., assignor.)
- McShane, Phelan, Pittsburgh, Pa., assignor to Westing-house Electric & Manufacturing Company. Control system. 1,730,283; Oct. 1.
- McShane, Phelan, Pittsburgh, Pa., assignor to Westing-house Electric & Manufacturing Company. Pendant switch. 1,736,746; Nov. 19.
- McShane, Phelan, Pittsburgh, Pa., assignor to Westing-house Electric & Manufacturing Company. Motor-control system. 1,739,174; Dec. 10.
- McSwain, Melvin E., Fort Smith, Ark. Golry-hole furnace. 1,735,775; Nov. 12.
- McTerney, Percival A., Schenectady, N. Y. Fowl-pluck-ing machine. 1,727,352; Sept. 10.
- McTigue, Francis H., assignor to The Coburn Trolley Track Mfg. Co., Holyoke, Mass. Door hanger. 1,739,557; Dec. 17.
- McVay, Alexander, Seattle, Wash. Steam-boiler furnace. 1,709,535; Apr. 16.
- McVay, Alexander, Seattle, Wash. Furnace. 1,731,931; Oct. 15.
- McVeety, Charles, Cheltenham, Pa., Weather strip. 1,726,576; Sept. 3.
- McVeigh, Joseph E., Fort Worth, Tex. Display apparatus. 1,729,956; Oct. 1.
- McVey, Julia G., Lancaster, Pa. Attachment for tables. 1,715,715; June 4.
- McWane, Arthur T., Birmingham, Ala. Canopy for gon-dola cars. 1,722,533; July 30.
- McWane Cast Iron Pipe Company. (See McWane, James R., assignor.)
- McWane, James R., assignor to McWane Cast Iron Pipe Company, Birmingham, Ala. Supporting core bars in flasks. Re17,362; July 2.
- McWane, James R., assignor to McWane Cast Iron Pipe Company, Birmingham, Ala. Supporting core bars in flasks. Re17,363; July 2.
- McWane, James R., assignor to McWane Cast Iron Pipe Company, Birmingham, Ala. Core guide. 1,702,657; Feb. 19.
- McWane, James R., assignor to McWane Cast Iron Pipe Company, Birmingham, Ala. Handling and mechanical-ly ramming flasks. 1,713,770; May 21.



- McWane, Robert C., Ridgewood, N. J. Automatic shut-off valve. 1,697,989; Jan. 8.
- McWethy, George E., assignor to The Wright Tool & Forge Company, Barborton, Ohio. Socket set. 1,712,473; May 7.
- McWhinnie, Cunningham S., Vancouver, British Columbia, Canada. Running-board bracket. 1,701,581; Feb. 12.
- McWhirter, George, Bethlehem, Pa. Automatic tension device for looms. 1,714,390; May 21.
- McWhirter, Ira C., Greenville, Tex. Toy pistol. 1,718,247; June 25.
- McWhirter, John S., Southport Conn. Lathe chuck. 1,703,200; Feb. 26.
- McWhirter, John S., Westport, Conn. Securing device for axle bearings. 1,719,436; July 2.
- McWhirter, Robert B., Point Pleasant, W. Va. Exercise bar. 1,714,391; May 21.
- McWhirter, William C. (See Thorn, C., and McWhirter.)
- McWhirter, William C., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-switch-operating apparatus. 1,716,787; June 11.
- McWhorter, William H. (See Treiber, Theodore R., assignor.)
- McWilliams, Robert. (See Giles, R., and McWilliams.)
- McWilliams, Thomas A., O. C. Parman, and A. R. Overall, assignors to F. M. Farris, Nashville, Tenn. Attachment for grain purifiers. 1,706,800; Mar. 26.
- McWilliams, William W., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Feed or supply device. 1,733,464; Oct. 29.
- Mead, Albert A., assignor to Mead, McLean & Company Limited, London, England. Ventilator for railway and other vehicles. 1,727,931; Sept. 10.
- Mead, Carl F., Cleveland, Ohio. Wire-drawing mechanism. 1,721,184; July 16.
- Mead, Ezra B., assignor to Ottumwa Iron Works, Ottumwa, Iowa. Internal-Combustion engines. 1,718,475; June 25.
- Mead, Fred J., East Orange, N. J. Concrete mold. 1,724,035; Aug. 13.
- Mead, Herbert E., Detroit, Mich., assignor to S. T. Jessop Co., Inc., Chicago, Ill. Cigar lighter. 1,736,544; Nov. 19.
- Mead, Homer A., assignor to Masterenich Corporation, Turlock, Calif. Wrench. 1,735,257; Nov. 12.
- Mead, John, Jr., Detroit, Mich. Pulverizing mill. 1,704,757; Mar. 12.
- Mead, Larkin J., assignor to Aurora Corset Company, Aurora, Ill. Combination corset and brassiere. 1,724,479; Sept. 10.
- Mead, Louis A., Reliance, S. Dak. Piston ring. 1,711,610; May 7.
- Mead, McLean & Company Limited. (See Mead, Albert A., assignor.)
- Mead-Morrison Manufacturing Company. (See Snow, Frederick O., Jr., assignor.)
- Mead Pulp & Paper Company, The. (See Traquair, John, assignor.)
- Mead, William A., Los Angeles, Calif. Rat guard. 1,709,225; Apr. 16.
- Meade, H. R., et al. (See Wilson, James R., assignor.)
- Meade, Luella P., Champaign, Ill. Iron for forming ringlet curls. 1,719,232; July 2.
- Meade, Roy B. (See Streid, John R., assignor.)
- Meador, Clarence H., St. Paul, Minn. Stormproof roller curtain. 1,738,442; Dec. 3.
- Meadoff, Abraham S. (See Bauer, W. J., Wierth, and Meadoff.)
- Meadoff, Abraham S., New York, N. Y. Toothbrush. 1,735,582; Nov. 12.
- Meadors, Thomas O., assignor of one-half to L. F. Powers, Spokane, Wash. Bottle cap and ticket holder. 1,721,185; July 16.
- Meadowcroft, Joseph W., assignor to Budd Wheel Company, Philadelphia, Pa. Machine for welding wheels to rims. 1,703,588; Feb. 26.
- Meadowcroft, William, Blackburn, England. Bottle-syruping and crown-corking machine. 1,711,175; Apr. 30.
- Meadows, Ben O., et al. (See Lathrop, Asa, assignor.)
- Meadows, Clyde L., Portsmouth, Ohio. Car air-brake release. 1,718,168; June 18.
- Meadows, James E., San Francisco, Calif. Dental appliance. 1,718,868; June 25.
- Meadville, Peter R., Lawton, Okla. Derrick elevator. 1,708,317; Apr. 9.
- Meagher, Stephen M., New York, N. Y. Sling. 1,699,114; Jan. 15.
- Meaker, John W., Evanston, Ill. Road-guard fence. 1,711,898; May 7.
- Meakers Limited. (See Rogers, Adam C., assignor.)
- Meakin, Edgar T., Berkeley, Calif. Press cylinder. 1,722,814; July 30.
- Meakin, Edgar T., Berkeley, Calif. Valve structure. 1,722,815; July 30.
- Meakin, Edgar T., Berkeley, Calif. Press for the extraction of liquids. 1,733,381; Oct. 29.
- Meakin & Ridgway, Inc. (See Mackenzie, Alexander W., assignor.)
- Meakin & Ridgway, Inc. (See Woodman, Walter S., assignor.)
- Meals, Charles A., Peoria, Ill. Faucet. 1,737,427; Nov. 26.
- Mealy, Charles A., assignor to The Hadley Company, Providence, R. I. Fastener for cord bracelets, etc. 1,717,574; June 18.
- Means, Winthrop J. (See Pierce, P. H., and Means.)
- Mears, Frederick W. (See Taylor, J. A., Sheesley, and Mears.)
- Measuregraph Company, The. (See Wheeler, John L., assignor.)
- Measure-Rite Coffee Company. (See Pauly, John P., assignor.)
- Meathers, Harry V., Tulsa, Okla. Apparatus for reclaiming crude oil. 1,705,370; Mar. 12.
- Meaux, Robert L., Eunice, La. Cylinder-bore polishing and finishing attachment. 1,738,443; Dec. 3.
- Mechanical Appliances Company, The. (See Brown, Ray W., assignor.)
- Mechanical Devices Corporation of America. (See Van Auker, Charles M., assignor.)
- Mechanical Handling System, Inc. (See Preble, Norman H., assignor.)
- Mechanical Manufacturing Company. (See O'Meara, Richard L., assignor.)
- Mechanical Rubber Company. (See Curtiss, Nathaniel H., assignor.)
- Mechanical Rubber Company, The. (See Keys, Walter C., assignor.)
- Mechlin, Robert S., assignor to The Bauer Brothers Company, Springfield, Ohio. Attrition mill. 1,723,055; Aug. 6.
- Mechlin, William H., assignor to The Bauer Brothers Company, Springfield, Ohio. Grinding plate for attrition mills. 1,715,772; June 4.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,424; Jan. 8.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,968; Mar. 12.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,969; Mar. 12.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,973; Mar. 12.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 78,039; Mar. 19.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 78,478; May 7.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 78,582; May 21.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 79,156; Aug. 6.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 80,137; Dec. 17.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 80,138; Dec. 17.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 80,139; Dec. 17.
- Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 80,183; Dec. 24.
- Meckstroth, Arthur H., Cheviot, Ohio. Window-shade-mounting means. 1,726,273; Aug. 27.
- Mecom, Harvey, Liberty, Tex. Drilling apparatus. 1,697,570; Jan. 1.
- Medal Brick and Tile Company, The. (See Duty, Spencer M., assignor.)
- Medart, Fred, Manufacturing Company. (See Albach, Frank, assignor.)
- Medart, Gustav, New York, N. Y. Steam massage machine. 1,705,776; Mar. 19.
- Medenwald, Arthur L. (See Schmidt, A. G., and Medenwald.)
- Meder, Carl J., Philadelphia, Pa. Extension plug for electric sockets. 1,714,610; May 28.
- Medernach, Walter K., assignor to Southern Asbestos Company, Incorporated, Charlotte, N. C. Insulating tape. 1,715,072; May 28.
- Medholdt, Louis T., assignor to Mattison Machine Works, Rockford, Ill. Molder. 1,698,412; Jan. 8.
- Medholdt, Louis T., assignor to Mattison Machine Works, Rockford, Ill. Cutter head. 1,712,087; May 7.
- Mediavilla, Leopoldo, New York, N. Y. Electrical permanent-waving device. 1,707,561; Apr. 2.
- Medlenka, Joseph G., Crowley, La. Trousers hanger. 1,723,292; Aug. 6.
- Medler, Frederick. (See Kurasch, C. H., and Medler.)
- Medley, Herbert E., Vallejo, Calif. Carburetor. 1,722,934; July 30.
- Medlock, Jack, Grandfield, Okla. Bag holder. 1,700,641; Jan. 29.
- Mednikoff, Nicolai, New York, N. Y. and L. Liberthson, Belleville, N. J. Lighting attachment for cigarettes. 1,723,877; Aug. 6.
- Medoff, Samuel, et al. (See Freedman, Bernard, assignor.)
- Medofsky, Nathan, et al. (See Wyss, Emil A., assignor.)
- Medrano, Aurelio M., and G. Chiossone, Buenos Aires, Argentina. Device for flushing water-closet pans. 1,739,408; Dec. 10.
- Medved, Nicholas, Canton, Ohio. Adjustable radiocoils. 1,701,330; Feb. 5.
- Medved, Nicholas, Canton, Ohio. Radiocoil. 1,727,932; Sept. 10.
- Medved, Walter, Canton, Ohio. Radiocircuits. 1,697,397; Jan. 1.
- Mee, Charles G. (See Rebenschied, O. H., and Mee.)
- Mée, Marcel, Paris, France. Autographic machine. 1,732,104; Oct. 15.
- Meehan, Albert. (See Campa, Abelardo F., assignor.)
- Meehan, Augustus F., assignor to Meehanite Metal Corporation, Chattanooga, Tenn. Heat treating iron. 1,731,346; Oct. 15.



- Meehan, Ellen F., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Waffle iron. Des. 79,157; Aug. 6.
- Meehan, Paul A., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Sheet-steel annealing. 1,703,630; Feb. 26.
- Meehan, Paul A., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Continuous-tunnel kiln. 1,738,597; Dec. 10.
- Meehanite Metal Corporation. (See Meehan, Augustus F., assignor.)
- Meek, Eugene T., assignor to Ward Manufacturing Co., Chicago, Ill. Electrically heated curling iron. 1,696,919; Jan. 1.
- Meek, George A., Leon, Iowa. Tire valve. 1,714,392; May 21.
- Meek, Sterner St. P., Philadelphia, Pa. Tracer composition. 1,708,186; Apr. 9.
- Meek, Sterner St. P., Philadelphia, Pa. Combustible composition. 1,708,187; Apr. 9.
- Meekins, Thomas S., White Haven, Pa. Conveyer chain. 1,715,094; May 28.
- Meell, George A., Bywood, Pa. Ring. Des. 77,384; Jan. 1.
- Meell, George A., Bywood, Pa. Ring. Des. 77,908; Mar. 5.
- Megathlin, Ralph S., Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe heel and assembling and attaching the same. 1,738,598; Dec. 10.
- Megaw, Lloyd F. (See Lowry, N. H., and Megaw.)
- Megitt, William S., Omaha, Nebr. Sealing means for liquid containers. 1,729,839; Oct. 1.
- Meginiss, Francis R., Albany, N. Y. Combination reading table and lamp. Des. 79,562; Oct. 8.
- Megraw, Albert B. (See Doane, L. C., and Megraw.)
- Meharg, Virgil E. (See Weith, A. J., Meharg, and Ahlbeck.)
- Mehl, George M., assignor to Williams Tool Corporation, Erie, Pa. Adjusting means for threading dies. 1,721,129; July 16.
- Mehl, George M., assignor to Williams Tool Corporation, Erie, Pa. Threading die. 1,724,497; Aug. 13.
- Mehler, Ludwig. (See Doerinkel, F., and Mehler.)
- Mehler, Carl J. (See Rigby, Albert V., assignor.)
- Mehlin, Charles, Fort Lee, N. J. Piano construction. 1,705,195; Mar. 12.
- Mehlin, Charles, Fort Lee, N. J. Piano construction. 1,705,196; Mar. 12.
- Mehlman, Ralph E., Philadelphia, Pa. Nail. 1,705,371; Mar. 12.
- Mehserle, Henry, Rochester, N. Y. Spit for apple-paring machines. 1,704,366; Mar. 5.
- Mehserle, Henry, assignor to K. Mehserle, Rochester, N. Y. Spit. 1,727,376; Sept. 10.
- Mehserle, Katie. (See Mehserle, Henry, assignor.)
- Meier, Charles, Valparaiso, Ind. Die casting cast iron. 1,731,676; Oct. 15.
- Meier, Earl C., Wichita, Kans. Sucker-rod guide. 1,729,175; Sept. 24.
- Meier, Ernst, assignor to Maschinenbau-Aktiengesellschaft Balcke, Bochum, Germany. Gas burner. 1,731,722; Oct. 15.
- Meier, Frederick H., Sheffield, Ill. Segmental clay block structure. 1,701,817; Feb. 12.
- Meier, George F., Wethersfield Conn. Lubricator. 1,713,292; May 12.
- Meier, George M., Parma, Mo. Feeder. 1,717,164; June 11.
- Meier, Gustav, New York, N. Y. Can opener. 1,709,861; Apr. 23.
- Meier, Karl H., Zurich, Switzerland. Overwinding preventer. 1,699,617; Jan. 22.
- Meier, William, Newark, N. J. Slicing device. 1,729,624; Oct. 1.
- Meighan, William A., Portland, Oreg. Sawing device. 1,714,798; May 28.
- Meigs, Bassett & Slaughter, Inc. (See Bassett, H. P., and Banigan, assignors.)
- Meigs, Robert H., Muskogee, Okla. Handle for kitchen utensils. 1,700,613; Jan. 29.
- Meijer, Johan H., Rotterdam, Netherlands. Machine for spreading granular material. 1,736,124; Nov. 19.
- Meijer, Reinier, Voorschoten, assignor to Naamloze Venootschap: De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Cutting pipes in wellholes. 1,728,069; Sept. 10.
- Meijer, Willem J. (See Mortelmans, F. G., and Meijer.)
- Mellicke, Carl A., Chicago, Ill. Index book. 1,702,357; Feb. 19.
- Mellink, Charles F., Toledo, Ohio. Safe interior. 1,721,705; July 23.
- Meindersma, Wigger, Wassenaar, Netherlands. Apparatus for indicating and determining the point of entrance of fluids in boreholes. 1,700,642; Jan. 29.
- Meindersma, Wigger, Wassenaar, assignor to Findriven Syndicat, The Hague, Netherlands. Device for driving a fin-shaped propeller. 1,729,676; Oct. 1.
- Meinecke & Company. (See Johnson, Edward, assignor.)
- Meinecke, Otto J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,727,377; Sept. 10.
- Meiners, Frank X. (See Gilbert, I. B., assignor, and Meiners.)
- Meiners, Gustav, Plotzensee, Germany, assignor to General Electric Company. Rectifying system. 1,722,152; July 23.
- Meiners, William G. (See Gilbert, I. B., and Meiners.)
- Meinhardt, Henry B., Chicago, Ill. Refrigerator-car partition. 1,704,758; Mar. 12.
- Meinhardt, Hermann A., Bad Godesberg, Germany. Soldering stick. 1,699,438; Jan. 15.
- Meinig Co. (See Hamel, Otto C., assignor.)
- Meinig Hosiery Co. (See Hamel, Otto C., assignor.)
- Meise, Phillip H., New York, N. Y. Mount for telescopic ride sights. 1,710,547; Apr. 23.
- Meiselbach, August D., assignor of one-half to W. J. Sandberg, Chicago, Ill. Sales board. 1,713,293; May 14.
- Melsenburg, Kurt, Leverkusen-on-the-Rhine, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of crotyl bromide. 1,725,159; Aug. 20.
- Meisenheimer, Allen H., Spokane, Wash. Control switch. 1,704,949; Mar. 12.
- Meisenheimer, Allen H., Spokane, Wash. Direction indicator. 1,726,910; Sept. 3.
- Meiser, Jesse V., Pacific Palisades, Calif. Picture-exhibiting machine. 1,733,815; Oct. 29.
- Meiser, Josef, Dortmund, Germany. Corrugated sheet piling. 1,733,816; Oct. 29.
- Meiser, Wilhelm, Ludwigshafen-on-the-Rhine, W. Schubardt, Mannheim, and O. Kramer, Oppau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Pure iron of small-grain size. 1,735,405; Nov. 12.
- Meisler, Benjamin, New York, N. Y. Apparatus for automatically peeling and washing fruits and vegetables. 1,714,313; May 21.
- Meisner, Callie F., Kansas City, Kans. Self-locking fruit box. 1,702,945; Feb. 19.
- Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Reduction of vacuum-tube capacitance. 1,697,961; Jan. 8.
- Meissner, Alexander, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna. 1,708,515; Apr. 9.
- Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Frequency multiplier. 1,712,046; May 7.
- Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Directional antenna system. 1,740,950; Dec. 24.
- Meissner, Alvin R., assignor of one-half to H. H. Byrne, Washington, D. C. Shadow-projecting apparatus. 1,703,945; Mar. 5.
- Meissner, Charles, San Diego, and W. H. Hunt, National City, Calif. Fish-slicing machine. 1,709,362; Apr. 16.
- Meissner, Charles R., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 1,733,617; Oct. 29.
- Meissner, Hans. (See Hehmsoth, Heinrich, assignor.)
- Meitzler, Charles R., assignor of one-half to O. H. Pieper and one-half to A. F. Pieper, Rochester, N. Y. Surgical instrument. 1,704,397; Mar. 5.
- Meixell, John W., Lewisburg, Pa. Ventilator. 1,701,385; Feb. 5.
- Melamid, Meilach, Freiburg, Germany, assignor to Canadian Electric Products Company, Limited, Montreal, Canada. Preparation of resins. 1,710,266; Apr. 23.
- Melamid, Michael, Berlin-Zehlendorf, Germany. Obtaining liquid products from coal and the like. 1,723,431; Aug. 6.
- Melamid, Michael, Berlin-Zehlendorf, Germany. Obtaining aldehyde condensation products. 1,727,076; Sept. 3.
- Melat, Henry A., Fort Worth, Te. Polish-rod grip. 1,703,201; Feb. 26.
- Melaun, Herman H., Indianapolis, Ind. Electrical lighting fixture. Des. 79,158; Aug. 6.
- Melaun, Oscar, Lanke, near Berlin, Germany. Producing clamping plates. 1,735,776; Nov. 12.
- Melby, Charles J., Everett, Wash. Shingle. Des. 77,786; Feb. 19.
- Melcher, Lee W., West De Pere, Wis. Car-axle bearing. 1,699,007; Jan. 15.
- Melcher, Lee W., West De Pere, Wis. Car-axle bearing for trucks. 1,704,052; Mar. 5.
- Melcher, Lee W., West De Pere, Wis. Motor-controlling mechanism. 1,731,389; Oct. 15.
- Melching, August F. (See Borland, C. A., and Melching.)
- Melching, August F., Forest Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Control apparatus. 1,713,771; May 21.
- Melchor, L. C., et al. (See Tucker, Pinkney R., assignor.)
- Melchor, Warren C., Fayetteville, N. C. Gear-shifting mechanism for motor vehicles. 1,736,320; Nov. 19.
- Meldrum, Alexander, assignor to Meldrum-Gabrielson Corporation, Syracuse, N. Y. Vehicle wheel. 1,718,169; June 18.
- Meldrum, Alexander, assignor, by mesne assignments, to H. W. and W. L. Smith, Syracuse, N. Y. Spoke for vehicle wheels. 1,728,428; Sept. 17.
- Meldrum, Alexander, assignor, by mesne assignments, to H. W. and W. L. Smith, Syracuse, N. Y. Vehicle wheel. 1,737,935; Dec. 3.
- Meldrum, Alexander, assignor, by mesne assignments, to H. W. and W. L. Smith, Syracuse, N. Y. Vehicle wheel. 1,742,044; Dec. 31.
- Meldrum-Gabrielson Corporation. (See Meldrum, Alexander, assignor.)



- Melendy, Jesse G., Tarrytown, assignor to General Chemical Company, New York, N. Y. Conversion of  $\text{SO}_2$  to  $\text{SO}_3$ . 1,716,498; June 11.
- Melfi, John, Nashville, Tenn. Sink strainer. 1,730,083; Oct. 1.
- Melhuish, Lawrence E., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Public-address system. 1,717,055; June 11.
- Meliana Corporation of America. (See Meliland, Marcel, assignor.)
- Meling, Gustave, Flushing, N. Y. Necktie and attaching means therefor. 1,705,414; Mar. 12.
- Meling, Gustave, Flushing, N. Y. Amusement apparatus. 1,712,353; May 7.
- Melish, Thomas G., Cincinnati, Ohio. Dishwasher. 1,703,946; Mar. 5.
- Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for producing a variegated plastic sheet. 1,730,673; Oct. 8.
- Mell, Tod J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for assembling units of sheet material. 1,734,336; Nov. 5.
- Mellen, Marion, now, by marriage, M. M. Little, New York, N. Y. Game-table surface. 1,708,318; Apr. 9.
- Mellerio, Lucien P. (See Lund, W. J., and Mellerio.)
- Melley, John J. (See Chapman, J. W., and Melley.)
- Melley, John J., and J. W. Chapman, Parsons, Kans., assignors of one-third to W. H. Heckman, Chicago, Ill. Railway-journal-box assembly. 1,735,258; Nov. 12.
- Melland, Marcel, Mannheim, Germany, assignor to Meliana Corporation of America. Treating vegetable fibers and fabrics. 1,717,991; June 18.
- Melland, Marcel, Mannheim, Germany, assignor to Meliana Corporation of America. Increasing the strength and elasticity of cotton fibers. 1,717,992; June 18.
- Melliger, Otto, Bern, Switzerland. Apparatus for the printing of colored designs on walls or other large surfaces. 1,705,415; Mar. 12.
- Mellin, Gustaf A. E., Los Angeles, Calif. Certificate holder. 1,712,088; May 7.
- Mellinger, Brainerd L., Kansas City, Mo. Combination merchandise-display case and panel. Des. 79,931; Nov. 19.
- Mellott, Harry B., Toledo, Ohio. Furnace. 1,726,036; Aug. 27.
- Meloon, Jonathan C., assignor to General Fire Extinguisher Company, Providence, R. I. Valve. 1,726,274; Aug. 27.
- Melott, Fred. (See Warren, R. E., and Melott.)
- Melott, John M., Los Angeles, Calif. Balance thrust bearing. 1,734,223; Nov. 5.
- Meloy, Thomas K. (See Remy, J. T., and Meloy.)
- Melrose, Elizabeth. (See Melrose, William A., assignor.)
- Melrose Slipper Co. Inc. (See Berman, Israel, assignor.)
- Melrose, William A., Chicago, Ill., assignor to E. Melrose, Detroit, Mich. Combination table and ironing board. 1,710,179; Apr. 23.
- Melton, Max E., Washington, D. C., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,716,454; June 11.
- Melucci, Angelo, et al. (See Raso, Dante, assignor.)
- Melville, Phillips. (See Samiran, David, assignor.)
- Melville Shoe Corporation. (See Melville, W., and Mackenzie, assignors.)
- Melville, Ward, Old Field, and J. C. Mackenzie, jr., New York, N. Y., assignors to Melville Shoe Corporation. Store front. Des. 78,982; July 16.
- Melvin, Loring B. (See Bickford, A. H., Melvin, and Thomas.)
- Melzer, Otto. (See Wahl, J. and Melzer.)
- Memmler, Arthur H., Sacramento, Calif. File case. 1,702,789; Feb. 19.
- Mendel, Michael, Brooklyn, N. Y. Tool handle. 1,708,278; Apr. 9.
- Mendelsohn, Charles M., Waltham, Mass. Implement displaying and storing device. 1,732,764; Oct. 22.
- Mendelsohn, Louis H., Paterson, N. J. Stocking. Des. 79,297; Aug. 27.
- Mendelsohn, Louis H., Paterson, N. J. Stocking. Des. 79,470; Sept. 24.
- Mendelsohn, Louis H., Paterson, N. J. Stocking. Des. 79,892; Nov. 12.
- Mendelson, Charles, et al. (See Hamilton, Charles E., assignor.)
- Mendelson, Percy, et al. (See Hamilton, Charles E., assignor.)
- Mendenhall, Everett, Santa Ana, Calif. Skid chain. 1,731,077; Oct. 8.
- Mendez & Jimenez. (See Fernandez, J. J., and Peñate, assignors.)
- Mendle, Milton D., assignor to American Fixture & Showcase Manufacturing Company, St. Louis, Mo. Display-Rack Base. Des. 77,702; Feb. 12.
- Mendle, Milton D., assignor to American Fixture & Showcase Mfg. Co., St. Louis, Mo. Rotary display rack. 1,727,515; Sept. 10.
- Meneghetti, Victor, Los Angeles, Calif. Accordion-strap attachment. 1,739,011; Dec. 10.
- Meneray, Roscoe C., Council Bluffs, Iowa. Radiator-sealing composition. 1,722,437; July 30.
- Menes, Norman C., trustee. (See Young, Willis H., assignor.)
- Menes, Raymond, Brooklyn, N. Y. Building brace. 1,742,045; Dec. 31.
- Mengden, Georges, Melz-sur-Seine, France. Road or course indicator for motor vehicles, vessels, aircraft or the like. 1,701,582; Feb. 12.
- Mengel Company, The. (See Turner, Joseph O., assignor.)
- Menges, Albert C., Greenville, Miss., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Lubricating system for motor vehicles. 1,735,175; Nov. 12.
- Mengin, Pierre E. J., Montargis, France. Double-acting hydraulically-controlled pump. 1,731,862; Oct. 15.
- Menk, William F., Pittsburgh, Pa. Route indicator. 1,701,957; Feb. 12.
- Menkel, Berthold, Cologne, Germany. Display case. 1,711,322; Apr. 30.
- Menkens, Cyril, Teddington, England. Diaphragm for use in acoustic instruments. 1,720,524; July 9.
- Menne, Fritz, Weidenau-on-the-Sieg, Germany, assignor to H. F. Hoevel, New York, N. Y. Machine for folding sheet metal. 1,739,249; Dec. 10.
- Menne, Fritz, Weidenau-on-the-Sieg, Germany, assignor to H. F. Hoevel, New York, N. Y. Furnace. 1,739,250; Dec. 10.
- Mennicke, Emil K. (See Mennicke, Emil M. and E. K.)
- Mennicke, Emil M. and E. K., Raschau, Erzgebirge, Germany, said Emil M. Mennicke assignor of one-third to H. G. Loesch, Rochester, N. Y. Coffee filter. 1,699,303; Jan. 15.
- Mennings, Adolph C. assignor to Koehring Company, Milwaukee, Wis. Traction control and driving mechanism. 1,720,849; July 16.
- Menon, Vadakkath R., Singapore, Straits Settlements. Mechanical aid for reading and writing. 1,711,360; Apr. 30.
- Menon, Vadakkath R., Singapore, Straits Settlements. Photographic cabinet. 1,725,010; Aug. 20.
- Mensing, Clarence W., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Casing for a lubricant dispenser. Des. 79,893; Nov. 12.
- Menut, Leroy E., Mount Vernon, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,715,560; June 4.
- Menz, Emil, Berlin-Friedenau, Germany. Automatic acetylene generator. 1,698,645; Jan. 8.
- Menz, Gustav, Wilhelmshaven, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Steam-control device. 1,725,011; Aug. 20.
- Menzel, Edmund R., assignor to The Yale and Towne Manufacturing Company, Stamford, Conn. Lock. 1,699,370; Jan. 15.
- Menzer, Frederick W., Hawthorne, N. J. Forming stencils. 1,698,166; Jan. 8.
- Menzies, Alan W. C., Princeton, N. J. Insecticidal solution. 1,732,240; Oct. 22.
- Menzies, Thomas, Pratt, Manitoba, Canada. Addressing and wrapping machine. 1,700,804; Feb. 5.
- Menzies, William C. (See Blatch, F. H., McLean, and Menzies.)
- Menzies, William E., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,705,672; Mar. 19.
- Menzies, William E., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Battery-charging system. 1,705,673; Mar. 19.
- Menzin, Abraham L., San Francisco, Calif., assignor to Blaw-Knox Company, Blawnox, Pa. Steam trap. 1,708,655; Apr. 9.
- Mercadante, Joseph. (See Thomson, Alfred M., assignor.)
- Mercantile Trust Company, The, et al, executors. (See Schwartz, Jacob C.)
- Mercedes Büro-Maschinen-Werke Aktiengesellschaft. (See Kaemmel, Ernst H., assignor.)
- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,731,471; Oct. 15.
- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,737,507; Nov. 26.
- Mercer, Henry H., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling apparatus. 1,737,508; Nov. 26.
- Mercer, Ivan H., assignor of one-tenth to E. L. Pound, Denver, Colo. Grade meter. 1,737,936; Dec. 3.
- Mercer, Richard, Harrow, and F. Tench, West Norwood, London, England, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,705,834; Mar. 19.
- Mercer, Robert A., Philadelphia, Pa. Dental water heater. 1,724,767; Aug. 13.
- Merchant & Kilgore. (See Foss, Thomas M., assignor.)
- Merchants Advertising Company. (See Mott, Judson L., assignor.)
- Merchen, Glen G., Spokane, Wash. Automatic weighing machine. 1,728,429; Sept. 17.
- Mercier, René, assignor to Compagnie Continentale pour la Fabrication des Compteurs & Autres Appareils, Paris, France. Casing for electric meters. 1,706,537; Mar. 26.
- Mercil, Elmer J. (See Nicholson, Robert J., assignor.)
- Mercil, Elmer J. (See O'Neill, William J., assignor.)
- Merck & Co. (See Cone, Alfred I., assignor.)
- Merck & Co. (See Engels, William H., assignor.)
- Merco Nordstrom Valve Company. (See Nordstrom, Sven J., assignor.)
- Mercur, Nathan L., McKeesport, assignor to C. H. Hook, Pittsburgh, Pa. Pressure valve. 1,737,428; Nov. 26.



- Mercury Manufacturing Company. (See Henkle, John R., assignor.)
- Meredieu, Damien, Angoulême, France. Universal press. 1,730,284; Oct. 1.
- Meredith, Harry B., Des Moines, Iowa. Chick fountain. 1,734,390; Nov. 5.
- Meredith, Harry R., et al. (See Murphy, Robert N., assignor.)
- Meredith, James M., Lewis, Iowa. Clothesline tightener. 1,737,195; Nov. 26.
- Mergenthaler Linotype Company. (See Best, Gordon, assignor.)
- Mergenthaler Linotype Company. (See Burt, Harold A., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
- Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
- Mergenthaler Linotype Company. (See Walsh, John B., assignor.)
- Mergott, J. E., Co. (See Hering, William C., assignor.)
- Merica, Paul D. (See McKnight, C., jr., Wickenden, and Merica.)
- Merida, James D., et al. (See Moore, Samuel, assignor.)
- Merit Company, The. (See La Tessa, Tully, assignor.)
- Merk, Friedrich, Munich, Germany. Selector. 1,712,393; May 7.
- Merk, Friedrich, Munich, Germany. Interchangeable set of relays for telephone purposes. 1,714,611; May 28.
- Merk, Friedrich, Munich, Germany. Desk telephone station. 1,721,402; July 16.
- Merk, Henry, deceased, Binghamton, N. Y.; C. Cohen administrator de bonis non. Combination spring hanger for brooms and dustpans. 1,722,383; July 30.
- Merkel, William J., Shorewood and E. C. Shaw; said Shaw assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Chipper. 1,736,858; Nov. 26.
- Merkle, Edward J., Columbus, Ohio. Apparatus for making coffee. 1,718,170; Jan. 18.
- Merkle, Gustav, Jenkintown, Pa. Lighting fixture. Des. 79,199; Aug. 13.
- Merkle, Harry A. (See Roberts, H. P., and Merkle.)
- Merklein, William A., Brooklyn, N. Y., and A. I. Dunn, Cedar Rapids, Iowa. Feed mechanism for meat slicers. 1,718,057; Jan. 18.
- Merklinger, Frank E. (See Vauclain, C. P., and Merklinger.)
- Merlán, Angel S. (See Cardoso, R. A., Merlan, and Mir.)
- Merle, André N., Vincennes, assignor to Pathé Cinéma, Anciens Établissements Pathé Frères, Paris, France. Protecting screen for cinematographic apparatus. 1,727,891; Sept. 10.
- Merle, George, sr., Brooklyn, N. Y. Variable condenser. 1,699,304; Jan. 15.
- Merle, George, sr., Brooklyn, N. Y. Variable condenser. 1,701,928; Feb. 12.
- Merley, Sylvan R., Dover, N. J., assignor to Doherty Research Company, New York, N. Y. Separation of polymers from crude-alcohol mixtures. 1,713,346; May 14.
- Merley, Sylvan R., Dover, N. J., assignor to Doherty Research Company, New York, N. Y. Separation of heavy alcohols from polymers. 1,732,903; Oct. 22.
- Merlino, Nicholas, Mattapan, Mass. Protector for hair-dressing use and the like. 1,741,327; Dec. 31.
- Merola, Gaetano, assignor of one-half to P. Paris, Bayonne, N. J. Garment or coat. 1,729,787; Oct. 1.
- Merrell, William S., Company, The. (See Bye, Mortimer, assignor.)
- Merriam, Edward P. (See Merriam, Robert C., assor.)
- Merriam, Edward P., Lexington, Mass. Binding for shoe uppers and attaching same. 1,712,394; May 7.
- Merriam, Henry F., West Orange, N. J., assignor to General Chemical Company, New York, N. Y. Manufacture of sulphuric acid. 1,728,213; Sept. 17.
- Merriam, Henry F., West Orange, N. J., assignor to General Chemical Company, New York, N. Y. Contact process for manufacturing sulphuric acid. 1,737,320; Nov. 26.
- Merriam, Robert C., assignor to E. P. Merriam, Lexington, Mass. Fabric binding. 1,700,067; Jan. 22.
- Merrick, Frank W., Boston, Mass. Device for use in lasing. 1,707,168; Mar. 26.
- Merrick, Frank W., Dorchester, assignor to American Stay Company, Boston, Mass. Lacing and like article and making the same. 1,734,738; Nov. 5.
- Merrick, Herbert L., Passaic, N. J. Proportional-material-feeding means. 1,727,353; Sept. 10.
- Merrick & Longbottom, Inc. (See Merrick, Sumner B., assignor.)
- Merrick, Sumner B., Hanover, Mass., assignor to Merrick & Longbottom, Inc., Philadelphia, Pa. Sucker-rod guide. 1,730,158; Oct. 1.
- Merrihew, Leland A. H., Cambridge, Mass. Steam trap. 1,704,398; Mar. 5.
- Merrill, Albert D., Watertown, N. Y., assignor, by mesne assignments, to The International Bleaching Corporation. Method and apparatus for bleaching pulp. 1,734,632; Nov. 5.
- Merrill, Carle J., Portland, Me. Machine for drying coated webs. 1,737,015; Nov. 26.
- Merrill Company, The. (See Mills, L. D., and Crowe, assignors.)
- Merrill, David R., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Soluble oil containing ether derivatives of polyhydroxy alcohols. 1,739,686; Dec. 17.
- Merrill, Frank W., Fort Wayne, Ind., assignor to General Electric Company. Synchronous inductor frequency changer. 1,725,662; Aug. 20.
- Merrill, George F., Ware, Mass. Repacking valves. 1,737,472; Nov. 26.
- Merrill, John, Brownsville, Tex. Baby carrier for automobiles. 1,698,601; Jan. 8.
- Merrill, John C., Los Angeles, and H. S. Montgomery, Pasadena, Calif. Producing clarifying reagents. 1,716,828; June 11.
- Merrill, John J., Ipswich, Mass., assignor, by mesne assignments, to Electric Outlet Company, Inc., New York, N. Y. Outlet box. 1,735,331; Nov. 12.
- Merrill, Josiah L., Media, Pa. Condenser. 1,716,731; June 11.
- Merrill, Oliver J., Glendale, Calif. Measuring cup. 1,706,582; Mar. 26.
- Merrill, Whitney, Brooklyn, N. Y. Scaffolding clamp. 1,706,801; Mar. 26.
- Merrill, Wilbur L., Schenectady, N. Y., assignor to General Electric Company. Consistency meter. 1,701,331; Feb. 5.
- Merrimac Chemical Company. (See Barrett, Gerald R., assignor.)
- Merriman, Henry H., Deckerville, Mich. Automobile jack. 1,714,464; May 21.
- Merriman, Isaac B., Providence, assignor to Manville Jenckes Company, Pawtucket, R. I. Manufacture of rayon. 1,702,837; Feb. 19.
- Merritt, Arthur A., Edgewood, R. I., and J. F. Getler, New Hartford, assignors to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Sewing-machine presser foot. 1,697,571; Jan. 1.
- Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine presser foot. 1,729,117; Sept. 24.
- Merritt, Benjamin C., Schrewsbury, Mass. Aeroplane toy. 1,728,245; Sept. 17.
- Merritt, Clarence E. (See Grover, W. H., Merritt, and Pooley.)
- Merritt, Glenn W., assignor to Mining Safety Device Company, Bowerston, Ohio. Car cager. 1,735,777; Nov. 12.
- Merritt, Glenn W., assignor to Mining Safety Device Company, Bowerston, Ohio. Rotary car dump. 1,735,778; Nov. 12.
- Merritt, Louis G., assignor to Merritt Manufacturing Co., Lockport, N. Y. Power-transmission unit. 1,730,859; Oct. 8.
- Merritt Manufacturing Co. (See Merritt, Louis G., assignor.)
- Merritt, Matthew M., South Middleton, Mass., assignor by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Treating hides and skins. 1,724,954; Aug. 20.
- Merry, Ambrose A., et al. (See Robinson, James W., assignor.)
- Merry, Seward B. (See Kerlaouezo, R. C., Evans, and Merry.)
- Merryweather, James, Greencastle, Ind. Hanger for down spouts and the like. 1,711,240; Apr. 30.
- Mersese, Henry R., Bronxville, N. Y., assignor, by mesne assignments, to Hobart Manufacturing Company, Troy, Ohio. Washing machine. 1,724,674; Aug. 13.
- Mersese, Henry R., Bronxville, N. Y., assignor, by mesne assignments, to Hobart Manufacturing Company, Troy, Ohio. Distributor for washing machines. 1,737,257; Nov. 26.
- Merser, Richard, Harrow, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,714,718; May 28.
- Mersfelder, Frederick J., and P. Balze, assignors to M. & B. Manufacturing Co., Inc., Leonia, N. J. Clean-out plug. Ref. 1,7528; Dec. 17.
- Mersfelder, Frederick J., and P. Balze, assignors to M. & B. Manufacturing Co., Inc., Leonia, N. J. Clean-out plug. 1,702,878; Feb. 19.
- Mershon, Ralph D., New York, N. Y. Electrolytic rectifier. 1,728,691; Sept. 17.
- Merske, Lawrence J., Milwaukee, Wis. Merchandise container. 1,736,763; Nov. 19.
- Merté, Willy, Jena, assignor to the firm of Carl Zeiss, Jena, Germany. Photographic objective. 1,713,703; May 21.
- Merté, Willy, assignor to the firm Carl Zeiss, Jena, Germany. Photographic lens, corrected spherically, chromatically, astigmatically and for coma. 1,741,947; Dec. 31.
- Merté, Willy. (See Wandersleb, E., and Merté.)
- Merten, William J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Carburizing container. 1,705,674; Mar. 19.
- Merten, William J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cyanide pot. 1,707,313; Apr. 2.
- Merten, William J., Pittsburgh, and C. T. Gayley, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Composition of matter for and method of purifying fused salt baths. 1,736,457; Nov. 19.



- Mertes, Clarence N., Berea, assignor to General Dry Batteries Incorporated, Cleveland, Ohio. Container for dry cells and forming same. 1,725,592; Aug. 20.
- Mertinz, Franz, Vienna, Austria. Die for stamping out blanks, more particularly for leather goods. 1,738,599; Dec. 10.
- Mertz, Albert, Coronado, Calif. Piston. 1,733,422; Oct. 29.
- Mertz, Charles C., assignor of one-half to A. W. Gill, Baltimore, Md. Control for gunfire. 1,737,937; Dec. 3.
- Mertz, Fritz, Magdeburg, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buchu, Germany. Machine for decorticating fibrous parts of agaves and other plants. 1,725,815; Aug. 27.
- Mertz, Fritz, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Cleaning plant fibers. 1,729,396; Sept. 24.
- Mertz, Pierre. (See Clark, A. B., and Mertz.)
- Mertz, Pierre. (See Nyquist, H. and Mertz.)
- Mertz, Pierre, Bellerose Manor, N. Y., assignor to American Telephone and Telegraph Company. Testing television and like system. 1,706,538; Mar. 26.
- Mertz, Pierre, Bellerose Manor, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,729,645; Oct. 1.
- Mertzanoft, André M., assignor to American Radiator Company, New York, N. Y. Water-heating apparatus. 1,710,665; Apr. 23.
- Mertzanoft, André M., assignor to American Radiator Company, New York, N. Y. Controlling the rate of combustion in heating apparatus. 1,717,993; June 18.
- Mertzanoft, André M., assignor to American Radiator Company, New York, N. Y. Hot-air stove or furnace. 1,725,468; Aug. 20.
- Merwarth, William C., assignor to Pennsylvania Pump & Compressor Company, Easton, Pa. Valve-lifting device. 1,741,426; Dec. 31.
- Merwin, George M. (See Johnston, E. A., Benjamin, and Merwin.)
- Merwin, John C., assignor to Chain Belt Company, Milwaukee, Wis. Drag chain. 1,720,285; July 9.
- Merwin, John C., Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis. Tempering water for concrete mixers and for cooling the motor therefor. 1,735,615; Nov. 12.
- Merz, Christian J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building tool. 1,734,337; Nov. 5.
- Merz, Friedrich, Frankfort-on-the-Main, Germany. Manufacture of ointments, and particularly water ointments. 1,732,105; Oct. 15.
- Merzinger, Eduard, Visovic, near Prague, Czechoslovakia. Securing means for male parts of press buttons. 1,707,169; Mar. 26.
- Merzinger, Eduard, Dresden, Germany. Press stud. 1,733,691; Oct. 29.
- Mescher, Henry J., Dayton, Ohio. Radiator cap. 1,697,991; Jan. 8.
- Meseroll, Augustus S., Highland Park, N. J. Universal coupling. 1,707,530; Apr. 2.
- Meserve, Forrest C., Salem, N. H., assignor to Underwood Meserve Company, Boston, Mass. Gasoline pump. 1,730,330; Oct. 1.
- Mesi, Arvi, Chicago, Ill. Windshield wiper. 1,737,473; Nov. 26.
- Mesinger, Henry, Mount Vernon, N. Y. Tandem attachment for motor vehicles. 1,717,056; June 11.
- Mesker Brothers Iron Company. (See Mesker, Frank, assignor.)
- Mesker, Frank, assignor to Mesker Brothers Iron Company, St. Louis, Mo. Combined window and coal hopper. 1,739,514; Dec. 17.
- Mesny, René M. (See David, P. B., and Mesny.)
- Mesplé, John L., San Francisco, Calif. Mechanical figure for teaching golf. 1,703,403; Feb. 26.
- Messenger, Jack E., Des Moines, Iowa, assignor to W. P. Hammond, Scarsdale, N. Y. Shutter for automobile radiators. Rel. 1,727; Apr. 23.
- Messer, Adolf, Frankfort-on-the-Main, Germany. Burner for cutting and welding. 1,731,020; Oct. 8.
- Messer, Ernest G. (See Baney, L. W., and Messer.)
- Messer, Julius, Hempstead, N. Y. System of airplane transportation. 1,733,270; Oct. 29.
- Messer, Vladimir V., Douglaston, N. Y., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Slug-cutting machine. 1,724,358; Aug. 13.
- Messgeräte Boykow, G. m. b. H. (See Boykow, Johann M., assignor.)
- Messinger, George S., Tatamy, Pa. Method and apparatus for dusting insecticide and fungicide powders upon plants. 1,716,970; June 11.
- Messinger, Lester H., jr. (See Hammond, G. L., and Messinger.)
- Messler, Aloyus J., Cleveland, Ohio. Ladle. 1,726,911; Sept. 3.
- Messler, Eugene L., Pittsburgh, Pa. Refractory plug for ingot molds. 1,702,790; Feb. 19.
- Messler, Eugene L., Pittsburgh, Pa. Refractory composition for hot tops. 1,717,575; June 18.
- Messler, Eugene L., Pittsburgh, Pa., assignor to The Gathmann Engineering Company, Baltimore, Md. Shrink-head casing for ingot molds. 1,737,665; Dec. 3.
- Messler, Eugene L., and J. M. Guthrie, Pittsburgh; said Guthrie assignor to J. Thomas, Sharpsville, Pa. Hot top. 1,738,600; Dec. 10.
- Messlin, Louis, Cadillac, Mich. Snowplow. 1,701,787; Feb. 12.
- Messmer Brass Company. (See Messmer, Joseph, assignor.)
- Messmer, Charles A., jr., St. Louis, Mo. Die. 1,718,476; June 25.
- Messmer, Joseph, Kirkwood, assignor to Messmer Brass Company, St. Louis, Mo. Valve. 1,716,277; June 4.
- Messter, Oskar, Berlin, Germany. Target-practice apparatus. 1,722,935; July 30.
- Mesta, Lewis W. (See Niedringhaus, C. I., and Mesta.)
- Mesta Machine Company. (See Iversen, Lorenz, assignor.)
- Mesta Machine Company. (See Niedringhaus, C. I., and Mesta, assignors.)
- Mestel, Nathan, and J. Berman, Brooklyn, N. Y. Bracket for display fixtures. 1,714,719; May 28.
- Metallier, René L. (See Adam, E. P., and Metallier.)
- Metallastic Inc. (See Rautenstrauch, Walter, assignor.)
- Metallastic Inc. (See Stewart, Hugh T., assignor.)
- Metal Castings Holding Company, The. (See Myers, Hubert A., assignor.)
- Metal Forming Process, Inc. (See Rosenberg, James, assignor.)
- Metal Forms Corporation. (See Miller, George H., assignor.)
- Metal Hose & Tubing Co. (See Wallace, Archibald L., assignor.)
- Metal Lamp Corporation. (See Kornblum, Morris, assignor.)
- Metallgesellschaft Aktiengesellschaft. (See Haedrich, P., and Kippe, assignors.)
- Metallgesellschaft Aktiengesellschaft. (See Kaiser, Karl, assignor.)
- Metallgesellschaft Aktiengesellschaft. (See von Girsewald C., Siegens, and Marschner, assignors.)
- Metallogen Gesellschaft mit beschränkter Haftung. (See Meurer, Nicolaus, assignor.)
- Metal Office Furniture Company. (See Lineberger, Fred B., assignor.)
- Metal Package Corporation of New York. (See Rantsch, Edward J., assignor.)
- Metal Products Company. (See Cocks, Harry J., assignor.)
- Metal Products and Engineering Corporation. (See Schmitt, George F., assignor.)
- Metal Specialties Manufacturing Company. (See Hermann, Wolfgang, assignor.)
- Metal Stamping Company. (See Stokes, Harlow T., assignor.)
- Metal Stamping Corporation. (See Chubbuck, Paul R., assignor.)
- Metal Textile Corporation. (See Kingman, Russel B., assignor.)
- Metal Textile Corporation. (See Mayer, Daniel J., assignor.)
- Metal & Thermit Corporation. (See Paul, Ira M., assignor.)
- Metal Toy Company. (See Beck, August W., assignor.)
- Metal Ware Corporation. (See Kasten, Otto, assignor.)
- Metal Ware Corporation. (See Koenig, Remus, assignor.)
- Metals Disintegrating Company. (See Hall, Everett J., assignor.)
- Metals Recovery Company. (See Sayre, Ralph E., assignor.)
- Metalweld, Incorporated. (See Oechsle, Joseph S., assignor.)
- Metalweld Service Corporation. (See Oechsle, Joseph S., assignor.)
- Metcalf, Alpha H., Attleboro, Mass., assignor to Saart Brothers Company. Folding case. 1,717,801; June 18.
- Metcalf, Frank G., Sandy Hook, Conn. Insulating rail connection for metal ties. 1,697,398; Jan. 1.
- Metcalf, George R., et al. (See Cox, John W., assignor.)
- Metcalf, George R., et al. (See Taylor, Harry S., assignor.)
- Metcalf, George R., jr., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,710,060; Apr. 23.
- Metcalf, George R., jr., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit construction. 1,712,895; May 14.
- Metcalf, George R., jr., assignor to Erie Malleable Iron Company, Erie, Pa. Cover. 1,719,301; July 2.
- Metcalf, Herbert E., San Leandro, Calif., assignor to The Magnavox Co., Oakland, Calif. Exhausting vacuum tubes. 1,719,773; July 2.
- Metcalf, Herbert E., San Leandro, Calif., assignor to The Magnavox Company, San Francisco, Calif. Tube grid and making same. 1,719,774; July 2.
- Metcalf, Herbert E., San Leandro, assignor to The Magnavox Company, San Francisco, Calif. Point-to-plate gas-filled rectifier. 1,722,588; July 30.
- Metcalf, Herbert E., San Leandro, assignor to The Magnavox Company, Oakland, Calif. Photo-electric tube. 1,738,957; Dec. 10.
- Metcalf, Howard H., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich. Wrapping and sealing machine. 1,703,855; Feb. 26.
- Metcalf, Irving R. (See Pearne, F. D., Metcalf, and Howey.)
- Metcalf, Irving R., Glen Ellyn, Ill., assignor to Latham Machinery Company. Clutch mechanism. 1,716,594; June 11.
- Metcalf, John R., Erie, Pa. Compass course finder. 1,720,963; July 16.
- Metcalf, John R., Erie, Pa. Compass card. 1,720,964; July 16.



- Metcalf, Lee A., Fairgrove, Mich. Picking machine. 1,704,203; Mar. 5.
- Metcalf, James C. (See Metcalf, Richard D. and J. C.)
- Metcalf, Richard D. and J. C., Romiley, near Manchester, England. Injector. 1,713,772; May 21.
- Metcalf, Robert F., assignor to Skinner Patent Holding Company, Erie, Pa. Steam engine. 1,698,317; Jan. 8.
- Metcalf, Robert F., assignor to Socony Burner Corporation, Brooklyn, N. Y. Heating system and control therefor. 1,703,537; Feb. 26.
- Metcalf, Robert F., Brooklyn, assignor to Socony Burner Corporation, New York, N. Y. Automatic safety switch. 1,713,773; May 21.
- Metheany, Richard R., Wilmington, Del. Combined tie plate and rail brace. 1,706,354; Mar. 19.
- Metherell, Alex. (See Pfaff, Harry E., assignor.)
- Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Muzzle cover for guns. 1,698,646; Jan. 8.
- Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Piece of ordnance more particularly adapted for firing upon aircraft. 1,702,167; Feb. 12.
- Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Igniting the bursting charge of projectiles. 1,706,802; Mar. 26.
- Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Wheeled split-trail gun carriage. 1,713,190; May 14.
- Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Automatic breech opening and closing mechanism for guns. 1,731,863; Oct. 15.
- Methudy Automatic Lighter Company. (See Methudy, Carl E., assignor.)
- Methudy, Carl E., St. Louis, Mo., assignor to Methudy Automatic Lighter Company, East St. Louis, Ill. Ignition device for gas burners. 1,705,777; Mar. 19.
- Methudy, Carl E., St. Louis, Mo., assignor to Methudy Automatic Lighter Company, East St. Louis, Ill. Gas burner. 1,706,070; Mar. 19.
- Methudy, Carl E., St. Louis, Mo., assignor to Methudy Enamel Range Co., East St. Louis, Ill. Ignition device for gas burners. 1,739,851; Dec. 17.
- Methudy Enamel Range Co. (See Methudy, Carl E., assignor.)
- Met-L-Wood Corporation. (See Levine, Joseph, assignor.)
- Metric, Solomon, and W. Avstreich, New York, N. Y. Automatic burr holder. 1,715,667; June 4.
- Metropolitan-Columbia Mfg. Co. (See Villaret, Gustave E., assignor.)
- Metropolitan Device Corporation. (See Baum, Fred W., assignor.)
- Metropolitan Device Corporation. (See Williams, Ernest, assignor.)
- Metropolitan Edison Co. (See Spangler, Charles H., assignor.)
- Metropolitan Electric Mfg. Co. (See Vermilye, Claude I., assignor.)
- Metropolitan Electric Manufacturing Company. (See Winklehaus, Frederick O., assignor.)
- Metropolitan Engineering Company. (See Murray, Thomas E., assignor.)
- Metropolitan Lamp Co. Inc. (See Kiwad, M., and Thau, assignors.)
- Metropolitan Lamp Co. Inc. (See Zweig, Joseph, assignor.)
- Metropolitan Sewing Machine Corporation. (See Weis, John P., assignor.)
- Metropolitan-Vickers Electrical Company Limited. (See Hinton, Norman P., assignor.)
- Metropolitan-Vickers Electrical Company Limited. (See Robinson, Ernest Y., assignor.)
- Metropolitan-Vickers Electrical Company Limited. (See Robinson, E. Y., and Hubbard, assignors.)
- Mett, Frederick A., Woodlawn, Md., assignor to Powhatan Mining Corporation. Refining asbestos ore. 1,741,869; Dec. 31.
- Mettam, Lavinia, Grand Rapids, Mich. Sleeping bag. 1,701,929; Feb. 12.
- Meters, Gordon J., and K. W. Nolan, Wayville, South Australia, Australia. Grease container for grease guns. 1,701,788; Feb. 12.
- Mettler, John W., East Millstone, N. J., and J. Haas and R. Evans, Martinsburg, W. Va., assignors to The Interwoven Mills, Inc., New Brunswick, N. J. Hosiery. 1,722,639; July 30.
- Mettler, Josef, Zug, Switzerland. Device on winding mechanism. 1,730,674; Oct. 8.
- Metz, Heinrich, Frommershausen, near Kassel, Germany. Two-share plow. 1,721,562; July 16.
- Metzger, Claude W., Houston, Tex. Core Bit. 1,701,895; Feb. 12.
- Metzger, Merritt B., Alvada, Ohio. Gun cleaner. 1,738,601; Dec. 10.
- Metzger, Richard, Heidelberg, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyeing cellulose acetate silk. 1,738,660; Dec. 10.
- Metzger, Sylvester G., Delphos, Ohio. Gate. 1,705,990; Mar. 19.
- Metzinger, Myron M., Blair, Nebr. Cap for tire-valve tubes. 1,709,677; Apr. 16.
- Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
- Metzner, Albert W., Dayton, Ohio, assignor, by mesne assignments, to The Standard Register Company. Manufacturing machine. 1,737,509; Nov. 26.
- Meuche, Walter, Leipzig, Germany. Device for stopping railroad trains independently of the driver. 1,729,397; Sept. 24.
- Meuer, George J. (See Stevens, W. C., and Meuer.)
- Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Current tap for installations on electric supply cords. 1,698,820; Jan. 15.
- Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lighting fixture of the electric candle type. 1,703,279; Feb. 26.
- Meuer, George J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Separable attachment plug. 1,703,631; Feb. 26.
- Meuer, George J., Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Electric switch. 1,717,057; June 11.
- Meuer, George J., Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Electric switch. 1,731,932; Oct. 15.
- Meuer, George J., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Socket or mounting for vacuum tubes. 1,741,372; Dec. 31.
- Meuer, George J., and A. H. Fleet, Milwaukee, Wis., assignors, by mesne assignments, to Cutler-Hammer, Inc. Electric switch. 1,724,675; Aug. 13.
- Meuller, Dixon M., Port Washington, N. Y. Acoustic device. 1,719,437; July 2.
- Meunier, Leon F. (See Hamilton, P. J., and Meunier.)
- Meunier, Leon F., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Throttle-control device. 1,704,399; Mar. 5.
- Meunier, Leon F., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Cable connection for portable tools. 1,722,816; July 30.
- Meunier, Leon F., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Brake apparatus. 1,738,303; Dec. 3.
- Meunier, Leon F., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Transmission apparatus. 1,739,980; Dec. 17.
- Meurer, Hans, Cologne, and S. Silbermann, Cologne-Forz, assignors to Felton and Guillaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. High-tension cable. 1,722,153; July 23.
- Meurer, Nicolaus, assignor to Metallogen Gesellschaft mit beschränkter Haftung, Berlin-Neukolln, Germany. Nozzle for atomizing wire-shaped materials. 1,725,012; Aug. 20.
- Meurin, Henri, assignor to Societe H. Trentelivres & Co., Levallois, Perret, France. Signaling device for machines. 1,700,068; Jan. 22.
- Meuser, Ludwig. (See Adams, H. S., and Meuser.)
- Mevi, George G., New York, N. Y. Binder. 1,728,430; Sept. 17.
- Mevi, George G., New York, N. Y. Book support. 1,728,431; Sept. 17.
- Mewborne, Robert G., assignor to Consumers Tobacco Company, Albuquerque, N. Mex. Insecticide and making the same. 1,731,677; Oct. 15.
- Mewborne, Robert G., assignor to Consumers Tobacco Company, Albuquerque, N. Mex. Parasiticide and making the same. 1,731,678; Oct. 15.
- Mews, Walter B. (See Maves, E. W., and Mews.)
- Mexco Limited. (See Scott, Alexander C., assignor.)
- Mey, Karl. (See Müller, Carl, assignor.)
- Mey, Karl, Berlin, Germany, assignor to General Electric Company. Method and machine for manufacturing incandescent lamps and similar articles. 1,710,428; Apr. 23.
- Meyer, Adolf, Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Protection of the thrust bearing of steam turbines. 1,697,399; Jan. 1.
- Meyer, Adolph F., St. Paul, Minn. Relay mechanism. 1,713,853; May 21.
- Meyer, Albert O., Niagara Falls, N. Y., assignor to Wm. A. Rogers, Limited, Toronto, Canada. Spoon or similar article. Des. 77,364; Jan. 1.
- Meyer, Anne W., administratrix. (See Meyer, William C.)
- Meyer, Arnold W., assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Hook rule. 1,739,485; Dec. 10.
- Meyer, Arthur L., Chihuahua, Mexico, assignor to E. Hallett, San Francisco, Calif. Typewriter. 1,697,992; Jan. 8.
- Meyer, Carl T., Birmingham, Ala. Automobile tag. Des. 77,621; Jan. 29.
- Meyer, Charles, Miami, Fla. Juice extractor. 1,742,089; Dec. 31.
- Meyer, Charles L., assignor to Concrete Engineering Company, Omaha, Nebr. Adjustable shore. 1,710,886; Apr. 30.
- Meyer, Daniel H., Elkville, Ill. Dipper tooth. 1,722,154; July 23.
- Meyer, Eberhard. (See Goltstein, E., and Meyer.)
- Meyer, Edwin A., Menasha, assignor, by mesne assignments, to Marathon Paper Mills Company, Rothschild, Wis. Rolled-material-dispensing carton. 1,717,613; June 18.
- Meyer, Ejnar A., Clifton, Bristol, England, assignor to The Fleischmann Company, New York, N. Y. Manufacture of yeast. 1,724,952; Aug. 20.
- Meyer Electric Manufacturing Co. (See Meyer, Emil A., assignor.)
- Meyer, Emil A., assignor to Meyer Electric Manufacturing Co., Houston, Tex. Electric self-winding master time clock. 1,705,025; Mar. 12.



- Meyer, Emil A., assignor, by mesne assignments, to Robbins & Myers, Inc., Springfield, Ohio. Circuit maker and breaker. 1,719,302; July 2.
- Meyer, Felix, Aachen, Germany. Making glass vessels. 1,699,305; Jan. 15.
- Meyer, Felix, Air-la-Chappelle, Germany. Article of glass and producing the same. 1,713,854; May 21.
- Meyer, Ferd H., Oakland, Calif. Machine for rolling up strip material. 1,730,675; Oct. 8.
- Meyer, Ferd H., Oakland, assignor of one-half to G. H. Roberts and one-half to J. Schor, San Francisco, Calif. Food container. 1,715,857; June 4.
- Meyer, Francis E., assignor to Theo. Alteneder & Sons, Philadelphia, Pa. Drafting instrument. 1,738,498; Dec. 3.
- Meyer, Frank H. (See Klaus, F. R., and Meyer.)
- Meyer, Frank H., and F. R. Klaus, Warren, assignors, by mesne assignments, to The Goodyear Tire & Rubber Company, Akron, Ohio. Dual-tire-wheel structure. 1,735,290; Nov. 12.
- Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Wardrobe trunk. 1,738,058; Dec. 3.
- Meyer, Franz, assignor to the firm Carl Zeiss, Jena, Germany. Regulating device for arc lamps. 1,721,081; July 16.
- Meyer, Franz, assignor to the firm of Carl Zeiss, Jena, Germany. Regulating device for arc lamps. 1,723,627; Aug. 6.
- Meyer, Fred. (See Riehl, Harry S., assignor.)
- Meyer, Frederick S., Minneapolis, Minn. Apparatus for forming molds for inlays and crowns. 1,715,465; June 4.
- Meyer, Friedrich W., assignor to The Cutler-Hamer Mfg. Co., Milwaukee, Wis. Electroionic arc discharge apparatus. 1,697,281; Jan. 1.
- Meyer, Friedrich W., Braunschweig, Germany, assignor to General Electric Company. Synchronizing system. 1,718,477; June 25.
- Meyer, Fritz, Hildesheim, Germany. Method of and device for testing blood. 1,724,953; Aug. 20.
- Meyer-Gaus, Karl, Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Winding machine. 1,711,279; Apr. 30.
- Meyer, Georg A., Potsdam, Germany. First-aid case. 1,713,477; May 14.
- Meyer, George, Quincy, Ill. Combined tire rim and chains therefor. 1,714,720; May 28.
- Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)
- Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Automatic pressure cooker. 1,741,579; Dec. 31.
- Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Valve mechanism for bottle-cleaning machines. 1,736,978; Nov. 26.
- Meyer, George J., Milwaukee, Wis. Filter. 1,708,146; Apr. 9.
- Meyer, Gustave E., New Meadows, Idaho. Music holder. 1,699,982; Jan. 22.
- Meyer, Harry C., Buffalo, N. Y. Boy scout signaling device. 1,729,890; Oct. 1.
- Meyer, Hattie C., Granite City, Ill. Kettle-stirring device. 1,723,194; Aug. 6.
- Meyer, Harry, Anderson, Ind. Perpetual calendar. 1,727,440; Sept. 10.
- Meyer, Henry C. A., assignor to The Bartlett Hayward Company, Baltimore, Md. Valve-operating mechanism. 1,741,064; Dec. 24.
- Meyer, Herbert, Berlin-Treptow, Germany, assignor, by mesne assignments, to Agfa Anso Corporation, Binghamton, N. Y. Combined desensitizer and developer and desensitizing and developing. 1,713,613; May 21.
- Meyer, Herman B., Chicago, Ill. Lamp base. Des. 78,644; May 28.
- Meyer-Jagenberg, Günther Dusseldorf, Germany. Manufacturing paper boxes and the like. 1,699,799; Jan. 22.
- Meyer-Jagenberg, Günther, Dusseldorf, Germany. Paper-box machine and the like. 1,700,893; Feb. 5.
- Meyer, Jesse, Jersey City, N. J. Treating felt hats. 1,702,658; Feb. 19.
- Meyer, John F. (See Kotrba, Frank, assignor.)
- Meyer, John F. (See Rosenblatt, Max, assignor.)
- Meyer, John F. (See Schlak, August, assignor.)
- Meyer, John F. (See Smith, Percy C., assignor.)
- Meyer, John F., Berkeley, Calif. Mortise gauge. 1,740,473; Dec. 24.
- Meyer, John F., Chicago, Ill. Amusement machine. 1,709,862; Apr. 23.
- Meyer, John F., Chicago, Ill. Amusement-target cabinet. Des. 79,600; Oct. 15.
- Meyer, Jos. H., Bros., Inc. (See Meyer, Maximilian C., assignor.)
- Meyer, Julius A. (See Hagen, Russell W., assignor.)
- Meyer, Justizrat Dr. Moritz, administrator. (See Wagner, Albert.)
- Meyer, Kurt H., Mannheim, J. Müller, Eppstein, and U. Hoffmann, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Softening paper. 1,731,679; Oct. 15.
- Meyer, Kurt H., and H. Krzikalla, Mannheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Production of green hydrated chromium oxide. 1,723,556; Aug. 6.
- Meyer, Lizzie E., Minong, Wis. Winding machine. 1,737,258; Nov. 26.
- Meyer, Maximilian C., Brooklyn, assignor to Jos. H. Meyer Bros., Inc., New York, N. Y. Iridescent products and making the same. 1,740,615; Dec. 24.
- Meyer, Milton, Newark, N. J. Deodorant holder. 1,731,431; Oct. 15.
- Meyer Mineral Separation Company. (See Meyer, Ralph F., assignor.)
- Meyer, Oswald, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Salt-like compound derived from dyestuff bases of the triarylmethane series and making same. 1,729,003; Sept. 24.
- Meyer, Peter, Newark, N. J., assignor to King Valve Attachment Corporation, Brooklyn, N. Y. Valve. 1,699,668; Jan. 22.
- Meyer, Ralph F., Freeport, assignor to Meyer Mineral Separation Company, Pittsburgh, Pa. Treating ores. 1,730,584; Oct. 8.
- Meyer, Richard M. (See Broome, C. C., and Meyer.)
- Meyer, Rudolph, Bamberg, Germany. Reversing gear. 1,726,037; Aug. 27.
- Meyer-Sniffen Company, The. (See Granmore, Frank H., assignor.)
- Meyer, Stephen E., Hayden, Ariz. Flotation machine. 1,722,705; July 30.
- Meyer, Svend M., Woodhaven, assignor of one-half to H. L. Ringelmann, Merrick, N. Y. Heating utensil. 1,697,962; Jan. 8.
- Meyer, Ulfilas, Cologne-Mulheim, Germany. Electric conductor with artificially-increased self inductance. 1,721,785; July 23.
- Meyer, Ulfilas, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Electric conductor for signaling purposes. 1,741,644; Dec. 31.
- Meyer & Wenthe. (See Wenthe, Herman H., assignor.)
- Meyer, Wilfried. (See Friederich, E., and Meyer.)
- Meyer, William, Chicago, Ill. Scalp-treatment device. 1,706,583; Mar. 26.
- Meyer, William, Chicago, Ill. Beauty-parlor chair. 1,721,027; July 16.
- Meyer, William C., assignor to Buffalo Weaving and Belting Company, Buffalo, N. Y. Antisqueak strip. 1,721,706; July 23.
- Meyer, William C., deceased; A. W. Meyer, administratrix, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lip-turning machine. 1,712,929; May 14.
- Meyer, William C., deceased, by A. W. Meyer, administratrix, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Seam-pressing machine. 1,736,272; Nov. 19.
- Meyer, William J. (See Buday, J., and Meyer.)
- Meyercord, George R., Chicago, Ill., and F. M. Curran, Grand Rapids, Mich., assignors to Haskellite Manufacturing Corporation. Base for refrigerator cabinets. 1,724,882; Aug. 13.
- Meyercord, Herman A., New York, N. Y. Poster-display board. 1,721,918; July 23.
- Meyerhofer, Albert F. (See Buchner, Max, assignor.)
- Meyerhuber, William, assignor to General Spring Bumper Corporation, Detroit, Mich. Clamp plate. Des. 80,242; Dec. 31.
- Meyering, J. V., Trunk Company. (See Hamlin, Ben M., assignor.)
- Meyers, Cornelius W., Portland, Oreg. Selective-delivery pneumatic-dispatch apparatus. 1,713,672; May 21.
- Meyers, Edward G., Passaic, N. J., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 77,425; Jan. 8.
- Meyers, Edward G., Passaic, N. J., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 77,426; Jan. 8.
- Meyers, Edward G., Passaic, N. J., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 77,427; Jan. 8.
- Meyers, James C., assignor to The Gendron Wheel Company, Toledo, Ohio. Child's vehicle. 1,738,110; Dec. 3.
- Meyers, James R. (See Garraway, Lee O., assignor.)
- Meyers, Louis, & Son, Inc. (See Aaron, A., and Benjamin, assignors.)
- Meyers, Louis & Son, Inc. (See Benjamin, S. E., and Murray, assignors.)
- Meyers, Louis, & Son, Inc. (See Meyers, Wallace E., assignor.)
- Meyers, Max B., Chicago, Ill. Indicator. 1,720,085; July 9.
- Meyers, Roy L., Janesville, Wis. Warm-air furnace. 1,719,990; July 9.
- Meyers, Samuel A., San Francisco, Calif., assignor to Paramount Electric Mfg. Co. Snap switch. Re17,493; Nov. 19.
- Meyers, Samuel A., San Francisco, Calif. Outlet bushing and washer. 1,726,038; Aug. 27.
- Meyers, Sidney E., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Safety valve. 1,701,305; Feb. 5.
- Meyers, Sidney E., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Conveying apparatus. 1,737,090; Nov. 26.
- Meyers, Wallace E., assignor to Louis Meyers & Son, Inc., New York, N. Y. Glove or the like. Des. 78,836; June 25.
- Meyers, Wallace E., assignor to Louis Meyers & Son, Inc., New York, N. Y. Glove or the like. Des. 78,837; June 25.



- Meyers, William A., assignor to William Lewis & Son, Chicago, Ill. Shoulder-pad attachment for musical instruments. 1,721,919; July 23.
- Meyerson, Louis, Brooklyn, N. Y. Combination cigarette holder and ash receptacle. 1,706,244; Mar. 19.
- Meyerson, Max, New York, N. Y. Telephone muffler. 1,704,899; Mar. 12.
- Meyerson, Max, New York, N. Y. Container. 1,731,747; Oct. 15.
- Meyerson, Max, New York, N. Y. Container. 1,731,748; Oct. 15.
- Meyfarth, Gottlieb, assignors of one-half to Société Anonyme des Ateliers de Secheron, Geneva, Switzerland. Pneumatically-operated electric switch. 1,711,278; Apr. 30.
- Meyneken, Frederik A. W., Rotterdam, Netherlands. Apparatus for separating the fibers of twisted ropes of crin végétal and the like material. 1,719,438; July 2.
- Meynier, Jacques M. J. F., Troyes, France. Progressive clutch and change-speed gear. 1,736,932; Nov. 26.
- Meyrowitz, E. B., Inc. (See Meyrowitz, Emil B., assignor.)
- Meyrowitz, Emil B., New York, N. Y., assignor to E. B. Meyrowitz, Inc. Goggles. 1,741,427; Dec. 31.
- Mezger, Charles A. (See Weiland, A., and Mezger.)
- Miadowicz, Frank, assignor of one-half to J. E. Morrow, Detroit, Mich. Display fixture. 1,729,004; Sept. 24.
- Miami Manufacturing Company, The. (See Cowan, C. M., and Minniear, assignors.)
- Mica Insulator Company. (See Coffey, Joseph M., assignor.)
- Micamold Radio Corporation. (See Gluck, E. V., and Hirsch, assignors.)
- Michael, Edward, et al. (See Fuller, George P., assignor.)
- Michael, Frederick R., Philadelphia, assignor to J. Abraham, Millbourne, Pa. Machine for backing mirrors and similar articles. 1,717,113; June 11.
- Michael, Gus F., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating mechanism. 1,708,023; Apr. 9.
- Michael, J., & Co. (See Uhlmann, F., and Trewendt, assignors.)
- Michael, Wilhelm, Oppau, and A. Palm, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Utilization of sulphite cellulose waste liquor. 1,723,800; Aug. 6.
- Michaels, John I. (See Stevens, C. A., Baldwin, and Michaels.)
- Michailovsky, Nicholas M., New York, N. Y. Road illumination. 1,713,294; May 14.
- Michailovsky, Nicholas M., Bronx, assignor of thirty-seven and one-half per cent to P. N. Ritter, Douglas Manor, Long Island, and twenty-five per cent to H. W. Boettger, New York, N. Y. Actuating unit for speakers. 1,732,204; Oct. 15.
- Michailovsky, Nicholas M., Bronx, assignor of thirty-seven and one-half per cent to P. N. Ritter, Douglas Manor, Long Island, and twenty-five per cent to H. W. Boettger, New York, N. Y. Driving unit for loud-speakers. 1,732,205; Oct. 15.
- Michal, Jaroslav A., New York, N. Y., assignor to The Turbinator Company, Inc., Ridgewood, N. J. Mixing and grinding device. 1,711,154; Apr. 30.
- Michalk, Otto, Freital, near Dresden, Germany. Pressure-applying air pad. 1,718,300; June 25.
- Michaud, Joseph J., and G. Sosia, Island Falls, Me. Buck-saw-frame tightener. 1,706,673; Mar. 26.
- Michel, Alfred. (See Teichmann, Lina, assignor.)
- Michel, Clarence A., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Combined tail lamp, stop signal, and reverse light. 1,699,800; Jan. 22.
- Michel, Clarence A., Cleveland, assignor to Delco Remy Corporation, Dayton, Ohio. Glass for tail-lamp stop signals and reverse lights. 1,726,447; Aug. 27.
- Michel, Frederick L., Kogarah, New South Wales, Australia. Adjustable back for chairs and operating same. 1,702,016; Feb. 12.
- Michel, Gilbert, Bagneux, France. Protection of the surface of baths of easily-oxidizable metals such as magnesium. 1,720,286; July 9.
- Michel, Gilbert, Bagneux, assignor to H. O. Berg, Paris, France. Purification of magnesium and its alloys. 1,698,647; Jan. 8.
- Michel, Max, New York, N. Y. Removable filtering and washer plate for presses. 1,713,478; May 14.
- Michel, Richard, Uerdingen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Condensation products from olefines and hydrocarbons of the naphthalene series, and making same. Re. 17,548; Dec. 31.
- Michel, Richard, Uerdingen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of ethylated naphthalenes. 1,741,472; Dec. 31.
- Michel, Richard, Uerdingen, Niederrhein, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of condensation products. 1,741,473; Dec. 31.
- Michelbacher, Charlotte. (See Levien, Louis, assignor.)
- Micheletti, A. A. (See Wolcott, Frank C., assignor.)
- Michelin, André J., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Air-pump casing. Des. 77,851; Feb. 26.
- Michelin, André J., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Garage inflater. Des. 79,093; July 30.
- Michelin, André J., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Multiple-wire reinforce for automobile tires. 1,715,302; May 28.
- Michelin et Cie. (See Bourdon, Pierre M., assignor.)
- Michelin et Cie. (See Michelin, André J., assignor.)
- Michelin, Marcel M., Staten Island, assignor to Pinaud Incorporated, New York, N. Y. Container or carton. 1,740,550; Dec. 24.
- Micell, Anthony G. M., Melbourne, Australia, assignor, by mesne assignments, to Micell-Crankless Engines Corporation, New York, N. Y. Crankless mechanism. Re. 17,273; Apr. 16.
- Micell, Anthony G. M., Melbourne, Victoria, Australia, assignor, by mesne assignments, to Micell-Crankless Engines Corporation, New York, N. Y. Cooling system. Re. 17,401; Aug. 13.
- Micell, Anthony G. M., Melbourne, Australia, assignor, by mesne assignments, to Micell-Crankless Engines Corporation, New York, N. Y. Construction and operating crankless internal-combustion and explosion engines. 1,698,102; Jan. 8.
- Micell, Anthony G. M., Melbourne, Victoria, Australia, assignor to Micell-Crankless Engines Corporation, New York, N. Y. Crankless engine. 1,729,448; Sept. 24.
- Micell-Crankless Engines Corporation. (See Micell, Anthony G. M., assignor.)
- Michels, Johann M., Baak, Holland. Mowing machine. 1,738,661; Dec. 10.
- Michelsen, William O., Woodhaven, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,736,125; Nov. 19.
- Michelsen, William O., Woodhaven, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,741,328; Dec. 31.
- Michiels, Eugene J. D., La Varenne-St. Hilaire, France. Hand-driven propulsion rudder for crafts and the like. 1,704,400; Mar. 5.
- Michigan Steel Tube Products Co. (See Berg, Richard O., assignor.)
- Michilli, Fausto, Camden, N. J. Sled. 1,722,012; July 23.
- Michl, Robert, Kosice, Czechoslovakia. Electric clock drive. 1,728,692; Sept. 17.
- Mickelsen, Canute H., Tetonia, Idaho. Restraining device. 1,724,768; Aug. 13.
- Mickelsson, Frans, Helsingfors, Finland. Portable impact tool. 1,736,716; Nov. 19.
- Micklin, Maurice D., Omaha, Nebr. Extensible grille. 1,715,208; May 28.
- Mickulecky, Mark J., Racine, Wis. Clutch or brake construction. 1,718,058; June 18.
- Micro Machine Company. (See Baumberger, William J., assignor.)
- Micro Machine Company. (See Yerk, H. H., and Baumberger, assignors.)
- Middelboe, Kristian, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Indicating the level of pulverulent materials. 1,714,515; May 28.
- Middendorf, Karl H., Kansas City, Mo. Sleeping-car berth. 1,739,321; Dec. 10.
- Middleton, Edmund B. (See Stine, C. M. A., Coolidge, and Middleton.)
- Middleton, John R., Boise, Idaho. Attachment for tanks. 1,739,852; Dec. 17.
- Middleton, Washington I., Watertown, assignor to Simplex Wire and Cable Company Boston, Mass. Telephone plug cord. 1,739,012; Dec. 10.
- Middleton, Washington I., Watertown, and C. R. Boggs, Waban, assignors to Simplex Wire & Cable Company, Boston, Mass. Portable electric cable. 1,698,704; Jan. 8.
- Middour, Kenneth G., Des Moines, Iowa. Ash pit. 1,706,803; Mar. 26.
- Midence, Adolph, Paris, France. Portable talking machine. 1,707,868; Apr. 2.
- Midgett, Penelton G., et al. (See Lang, Charles E., assignor.)
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method and apparatus for simultaneously cutting and winding bias strips. 1,714,799; May 28.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Band stitching and stretching device. 1,716,596; June 11.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Expanding device for tire casings. 1,723,572; Aug. 6.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,727,405; Sept. 10.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method and apparatus for cutting bias strips. 1,730,585; Oct. 8.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Non-skid tire. 1,740,616; Dec. 24.
- Midgley, Thomas, Jr., Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Cracking hydrocarbons. 1,721,523; July 23.
- Midgley, Thomas, Jr., assignor to General Motors Research Corporation, Dayton, Ohio. Liquid-dispensing apparatus. 1,733,423; Oct. 29.



- Midgley, Thomas, jr., and C. A. Hochwalt and C. A. Thomas, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Polymerization of dienes. 1,713,236; May 14.
- Midgley, William, San Francisco, Calif. Street-car construction. 1,740,995; Dec. 24.
- Midland Bank, trustee, The. (See Golrick, Albert R., assignor.)
- Midland Engineering Company, The. (See Crist, Robert W., assignor.)
- Midland Steel Products Company, The. (See Sneed, John, assignor.)
- Midland Steel Products Company, The. (See Wallace, Robert H., assignor.)
- Midlo, Joseph, Oakland, Calif. Cabinet. 1,725,407; Aug. 20.
- Mid-States Gummed Paper Co. (See McHenry, Irving, assignor.)
- Mid-West Box Company. (See Fairchild, Walter H., assignor.)
- Mid-West Box Company. (See Maston, Edward E., assignor.)
- Mid-West Incinerator Corporation. (See Howle, Ernest O., assignor.)
- Midwest Metallurgical Corporation. (See Williams, D., and Grossmann, assignors.)
- Midwest Refining Company, The. (See Sanders, Clyde S., assignor.)
- Midwest Refining Company, The. (See Sinclair, Ewart G., assignor.)
- Midwest Steel & Supply Co., Inc. (See Jordahl, A., and Runback, assignors.)
- Midwood, George A., jr. (See Whiton, L. E., and Midwood.)
- Mieg, Walter, Vohwinkel, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of vat dyestuffs of the anthraquinone series. 1,706,933; Mar. 26.
- Mieg, Walter, and A. Job, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Mononitrated dipthaloyl acridones and preparing the same. 1,709,945; Apr. 23.
- Mieg, Walter, and A. Job, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Aroylamino-dipthaloyl-acridones and preparing the same. 1,709,993; Apr. 23.
- Mieg, Walter, Vohwinkel, and H. Raeder, Leverkusen, near Cologne, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dianthraquinonylamine sulphonic acid dyestuff. 1,735,123; Nov. 12.
- Miehle Printing Press & Manufacturing Company, The. (See Blaine, Joseph R., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Zimniewicz, Anthony, assignor.)
- Miehle, Robert, Chicago, Ill. Mechanism for adjusting lifts of paper upon feed boards. 1,736,414; Nov. 19.
- Mielke, Edward J., et al. (See Tweet, John B., assignor.)
- Mielke, William J., New Hampton, Iowa. Power-transmitting device. 1,708,230; Apr. 9.
- Mielziner, William J., Franklin Square, assignor to American Can Company, New York, N. Y. Collapsible case. 1,723,293; Aug. 6.
- Mierendorff, William C. (See Ruttenberg, S., and Mierendorff.)
- Mierkey, Henry, Orient, S. Dak. Fence post. 1,709,732; Apr. 16.
- Miesse, Richard E., Jersey City, assignor to New Process Metals Corporation, Newark, N. J. Producing metallic cesium. 1,707,637; Apr. 2.
- Miessner, Benjamin F., South Orange, N. J. Electron-discharge device. 1,718,059; June 18.
- Miessner, Benjamin F., South Orange, N. J. Electrical signal amplifying and repeating system. 1,719,189; July 2.
- Miessner, Benjamin F., South Orange, N. J. Electrical signal-amplifying system. 1,720,914; July 16.
- Miessner, Benjamin F., South Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Microphone. 1,722,851; July 30.
- Miessner, Benjamin F., South Orange, N. J. Electromagnetic translating device. 1,723,278; Sept. 17.
- Miessner, Benjamin F., South Orange, N. J. Signal-lamp mounting. 1,729,080; Sept. 24.
- Miessner, Benjamin F., Short Hills, N. J. Electrodynamic sound-reproducing system. 1,733,232; Oct. 29.
- Miessner, William O., Milwaukee, Wis. Musical instrument. 1,698,958; Jan. 15.
- Mietzsch, Fritz. (See Schulemann, W., Schönhöfer, and Mietzsch.)
- Mietzsch, Fritz, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. New dialkylamino-alkyl derivatives of the 3,6-dihydroxy-acridine. 1,727,480; Sept. 10.
- Mieville, Arthur L., Southport, England. Roller-bearing assembly. 1,702,125; Feb. 12.
- Mieville, Charles, Paris, France. Thermoelectric couple. 1,741,870; Dec. 31.
- Miguet, Paul L. J., assignor to Société Electrometallurgique de Montricher, St-Julien-de-Maurienne, France. Furnace electrode. 1,707,406; Apr. 2.
- Miguet, Paul L. J., assignor to Societe Electrometallurgique de Montricher, St-Julien-de-Maurienne, France. Electric furnace. 1,728,070; Sept. 10.
- Miguet, Paul L. J., assignor to Societe Electrometallurgique de Montricher, St-Julien-de-Maurienne, France. Electrode for electric furnaces. 1,728,071; Sept. 10.
- Mihaly, Joseph, assignor to M. Eger, New York, N. Y. Exhaust fan. 1,721,634; July 23.
- Mihle, Robert, Chicago, Ill. Make-ready for plural printing and making the same. 1,730,229; Oct. 1.
- Mikelson, Nardal, Yankton, S. Dak. Cylinder hone. 1,708,988; Apr. 9.
- Mikesh, Martin A., Jersey City, N. J. Reverse brake. Re17,458; Oct. 15.
- Mikesh, Martin A., Milwaukee, Wis. Reverse brake for automobiles. 1,735,332; Nov. 12.
- Mikesh, Martin A., Jersey City, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Mold for multiple rings. 1,727,312; Sept. 3.
- Miki, Sampei, Tokyo, Japan, assignor to General Electric Company. Protective arrangement. 1,717,240; June 11.
- Mikkelsen, Aage A., Schenectady, N. Y. Wrapper for photographs and the like. 1,714,688; May 28.
- Mikle, Clinton O., Portland, Oreg. Weed-burning device. 1,712,153; May 7.
- Milano Furniture Company. (See Heyman, Joseph J., assignor.)
- Milbery, Claude A. (See Rockwood, A. W., and Milbery.)
- Milbourn, Frank W., assignor to The Coe Manufacturing Company, Painesville, Ohio. Operating mechanism for veneer-cutting lathes. 1,729,957; Oct. 1.
- Mildren, Lory J., Ponca City, Okla. Oil-well combination casing and packing head. 1,728,432; Sept. 17.
- Milecz, Rudolph, Hoboken, N. J. Sound reproduction. 1,714,516; May 28.
- Miles, Carroll C., assignor to R. D. Miles, Lancaster, Mass., doing business as Miles Kedex Company. Separable fastener. 1,714,230; May 21.
- Miles, Carroll C., Leominster, assignor to R. D. Miles, Lancaster, Mass., doing business as Miles Kedex Company. Wallet for key. 1,719,120; July 2.
- Miles, Clarence B., Omaha, Nebr. Locomotive headlight. 1,700,235; Jan. 29.
- Miles, Frank M., Tacoma, Wash. Measuring device. 1,721,635; July 23.
- Miles, Grace B. (See Miles, Milo T., and G. B.)
- Miles, Harry B., Coburg, Victoria, Australia. Sound box for talking machines. 1,720,425; July 9.
- Miles, Henry D., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Drying apparatus. 1,726,751; Sept. 3.
- Miles, James C., Cleveland, Ohio. Furnace attachment. 1,707,531; Apr. 2.
- Miles, John W., Duquesne, Pa. Wall-building form. 1,702,659; Feb. 19.
- Miles Kedex Company. (See Miles, Carroll C.)
- Miles, Lester H., Los Angeles, Calif. Automatic dirigible spotlight. 1,730,465; Oct. 8.
- Miles, Lester H., Los Angeles, Calif. Electric siren. 1,739,727; Dec. 17.
- Miles, Milo T. and G. B., Oakland near San Leandro, Calif. Pie cutter. 1,706,934; Mar. 26.
- Miles, Ruth D. (See Miles, Carroll C., assignor.)
- Miles, William C., Brooklyn, N. Y. Fish lure. 1,707,407; Apr. 2.
- Miles, William C., Brooklyn, N. Y., assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator-door-actuating mechanism. 1,712,089; May 7.
- Milestone, Walter E., Lakewood, Ohio. Liquid-dispensing unit. 1,715,939; June 4.
- Milewski, Constanty, Detroit, Mich. Insect trap. 1,737,429; Nov. 26.
- Miley, Walter E., assignor to Marion Steam Shovel Company, Marion, Ohio. Dipper tooth. 1,697,536; Jan. 1.
- Miley, Walter E., assignor to The Marion Steam Shovel Company, Marion, Ohio. Tooth for excavating dippers and the like. 1,719,775; July 2.
- Miley, Walter E., assignor to The Marion Steam Shovel Company, Marion, Ohio. Teeth for excavating dippers and the like. 1,736,045; Nov. 19.
- Milkutat, Ernst, Tilsit, Germany. Auditorium. 1,737,666; Dec. 3.
- Mill Devices Company. (See Byrd, Britton E., assignor.)
- Millar, George A., Ridgefield Park, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Glass-working machine for switches. 1,701,759; Feb. 12.
- Millar, George A., Ridgefield Park, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Glass-working machinery. 1,721,570; July 23.
- Millar, Preston S., Brooklyn, N. Y. Street illumination. 1,738,383; Dec. 3.
- Millar, Stephen P., El Centro, Calif. Vehicle bumper. 1,729,274; Sept. 24.
- Millar, Thomas H., jr. (See Hunt, J. H., and Millar.)
- Millard, Irwin W., assignor to Industrial Gloves Corporation, Chicago, Ill. Hand pad. 1,736,209; Nov. 19.
- Millard, Raymond B., Tulsa, Okla. Filter. 1,727,554; Sept. 10.
- Millay, Frederick W., Haverhill, Mass. Making shoe soles. 1,732,765; Oct. 22.
- Millé, Julien, Paris, France. Apparatus for insuring complete combustion in industrial furnaces. 1,728,571; Sept. 17.
- Millen, Edward L., Brookline, Mass. Gripping screw driver. 1,699,306; Jan. 15.
- Millen, James, Malden, Mass. Escutcheon plate for a dial mechanism. Des. 79,378; Sept. 19.



- Millen, James R., Deerfield, Mich. Vehicle. 1,706,245; Mar. 19.
- Miller, A. J. (See McLaughlin, Wilson, L. and H. L., assignors.)
- Miller, Abraham H. (See Miller, Jane R. and A. H.)
- Miller, Albert A. (See Paull, J., and Miller.)
- Miller, Albert B. (See Bennett, W. C., and Miller.)
- Miller, Albert C., Elyria, assignor to The Willys-Overland Company, Toledo, Ohio. Engine construction. 1,727,298; Sept. 3.
- Miller, Albert E., Westfield, N. J., assignor to Sinclair Refining Company, New York, N. Y. Distillation of oil. 1,714,097; May 21.
- Miller, Alexander M., Riverside, Calif. Signal. 1,712,395; May 7.
- Miller, Alfred B. (See Gilson, R. M., and Miller.)
- Miller, Allen O., Seattle, Wash. Air-circulating means for heating systems. 1,708,550; Apr. 9.
- Miller, Allen O., Seattle, Wash. Bearing. 1,734,591; Nov. 5.
- Miller, Annie E., Newton Hamilton, Pa. Miner's shirt and garment protector. 1,725,718; Aug. 20.
- Miller, Archibald S., St. Paul, Minn. Battery-terminal cleaner. 1,741,531; Dec. 31.
- Miller, Arthur, Chicago, Ill. Car tank. 1,720,399; July 9.
- Miller, Arthur E. (See Salisbury, H. M., and Miller.)
- Miller, Arthur F. (See Forbes, Robert A., assignor.)
- Miller, Augustus, East Orange, N. J. Weather strip. 1,702,217; Feb. 12.
- Miller, Benjamin, Baltimore, Md. Photograph case. 1,737,725; Dec. 3.
- Miller, Carl, San Francisco, Calif. Bathtub pad. 1,721,571; July 23.
- Miller, Carl D., Winnipeg, Manitoba, Canada. Viscometer. 1,727,836; Sept. 10.
- Miller, Charles, New York, N. Y. Spring shank. 1,717,994; June 18.
- Miller, Charles, Brooklyn, N. Y. File receptacle. 1,724,408; Aug. 13.
- Miller, Charles, Long Island City, N. Y. Shoe last. 1,736,545; Nov. 19.
- Miller, Charles C., Fort Wayne, Ind. Box. 1,699,008; Jan. 15.
- Miller, Charles D., Berkeley, Calif. Pyrotechnic device. 1,709,033; Apr. 16.
- Miller, Charles E., Anderson, Ind. Barbecuing machine. 1,719,713; July 2.
- Miller, Charles E., assignor of one-half to C. Green, Laurel, Miss. Operating railway-crossing gates. 1,714,393; May 21.
- Miller, Charles F., Cedar Rapids, Iowa, assignor by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Butter-cutter frame. 1,704,509; Mar. 5.
- Miller, Charles F., Moores, Pa., assignor to Westinghouse Electric and Manufacturing Company. Industrial stoker. 1,708,393; Apr. 9.
- Miller, Charles F., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Closure apparatus. 1,712,509; May 14.
- Miller, Charles H., assignor, by mesne assignments, to The Liquid Carbonic Corporation, Chicago, Ill. Sirup-charging apparatus. 1,711,361; Apr. 30.
- Miller, Charles J., Passaic, N. J., assignor to The Superheater Company, New York, N. Y. Automatic control valve. 1,719,070; July 2.
- Miller, Charlie Z., Fort Scott, Kans. Railway signal. 1,714,612; May 28.
- Miller, Christian, New York, N. Y., assignor to Edwards and Company, Inc. Push-button-switch construction. 1,699,491; Jan. 15.
- Miller, Clifford C., and J. B. East, Long Beach, Calif.; said Miller assignor to said East. Sliding-beam counter-balance. 1,706,407; Mar. 26.
- Miller Company, The. (See Allworth, Arthur B., assignor.)
- Miller Company, The. (See Doane, Leroy C., assignor.)
- Miller Company, The. (See Doane, L. C., and Megraw, assignors.)
- Miller Company, The. (See Wolter, Herman H., assignor.)
- Miller, David A., Campbelltown, Pa. Soldering iron. 1,741,707; Dec. 31.
- Miller, Donald W. (See Parks, P. B., and Miller.)
- Miller, Dorr, and B. S. Floraday, assignors, by mesne assignments, to The Dura Company, Toledo, Ohio. Lock for window regulators. 1,732,411; Oct. 22.
- Miller, Earl C., Hastings, Nebr. Riding-stick toy. 1,726,626; Sept. 3.
- Miller, Edgar S., Kansas City, Kans., assignor to Carrier Engineering Corporation, Newark, N. J. Method and apparatus for conditioning grain. 1,711,574; May 7.
- Miller, Edward, Adrian, Mich., assignor to Evans Auto Loading Company, Inc., Detroit, Mich. Riving machine. 1,730,376; Oct. 8.
- Miller, Edward C., Detroit, Mich. Weather strip. 1,721,707; July 23.
- Miller, Edward E., et al. (See Behrens, Henry A., assignor.)
- Miller, Edward E., Paris, France, assignor to Sullivan Machinery Company. Drilling mechanism. 1,704,053; Mar. 5.
- Miller, Edward F. (See Miller, Jeanne P. and E. F.)
- Miller, Edward H., Longmeadow, Mass. Connection for Water-closet bowls. 1,699,983; Jan. 22.
- Miller, Edward S., Roanoke, Va. Battery connector. 1,724,214; Aug. 13.
- Miller, Edwin F., Merchantville, N. J. Operating valve. 1,704,759; Mar. 12.
- Miller, Elbert C., and V. E. Showalter, Dayton, Ohio. Instrument-board clock lock. 1,720,740; July 16.
- Miller, Elmer B., Millersburg, Pa. Single-trigger fire mechanism for double-barrel guns. 1,725,663; Aug. 20.
- Miller, Emmet S., R. W. Stambaugh, and G. W. McKown; said Miller and said Stambaugh assignors to Milwaukee Corrugating Company, Milwaukee, Wis. Building material. 1,735,259; Nov. 12.
- Miller, Ernest B., assignor to The Silica Gel Corporation, Baltimore, Md. Refrigeration. 1,729,081; Sept. 24.
- Miller, Ernest B., assignor to The Silica Gel Corporation, Baltimore, Md. Alkaline storage battery. 1,740,518; Dec. 24.
- Miller, Ernest B., and W. L. Edel, assignor to The Silica Gel Corporation, Baltimore, Md. Refrigerating apparatus. 1,729,082; Sept. 24.
- Miller, Ernest B., and W. L. Edel, assignor to The Silica Gel Corporation, Baltimore, Md. Refrigeration process and apparatus. 1,729,083; Sept. 24.
- Miller, Ernest F., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Manufacturing turbine blades. 1,718,061; June 18.
- Miller, Erwin E., Fullerton, Calif. Valve grinder. 1,699,475; Jan. 15.
- Miller, Erwin E., Fullerton, Calif. Mud-pump valve. 1,716,896; June 11.
- Miller, Eusek C., Newark, N. J. Machine for making annular pieces of candy. 1,726,113; Aug. 27.
- Miller, Felix B., assignor to Fillwik Company, Attleboro, Mass. Container. 1,710,780; Apr. 30.
- Miller, Felix B., Attleboro, Mass., assignor to American Perfumers' Laboratories, Inc., New York, N. Y. Container. 1,712,354; May 7.
- Miller, Frank, Elmhurst, N. Y. Harmonica music holder. 1,722,852; July 30.
- Miller, Frank, assignor of one-half to T. A. Barber, Los Angeles, Calif. Sound reproducer. 1,724,611; Aug. 13.
- Miller, Frank A., assignor of one-third to self, one-third to H. A. Mitchell, Oakland, and one-third to W. A. Arnstein, San Francisco, Calif. Railroad signal. 1,721,229; July 16.
- Miller, Frank E., New York, N. Y. Hearing device for the deaf. 1,737,430; Nov. 26.
- Miller, Frank J., et al. (See Bridler, John J., assignor.)
- Miller, Frank P., Meadville, Pa. Rotary cutter. 1,714,036; May 21.
- Miller, Frank P., Meadville, Pa. Rotary cutter. 1,714,098; May 21.
- Miller, Frank P., Meadville, Pa. Rotary cutter. 1,716,455; June 11.
- Miller, Frank P., Meadville, Pa. Rotary cutter. 1,719,337; July 2.
- Miller, Frank P., Meadville, Pa. Rotary cutter. 1,729,047; Sept. 24.
- Miller, Frank P., Meadville, Pa. Tool holder. 1,736,210; Nov. 19.
- Miller, Frank P., Meadville, Pa. Inserted-blade cutter. 1,736,273; Nov. 19.
- Miller, Frank R. (See Lents, J. M., and Miller.)
- Miller, Frank R., assignor to The Graham Glass Company, Evansville, Ind. Bottle. Des. 78,479; May 7.
- Miller, Fred G., Washington, Ill. Boot latch. 1,732,904; Oct. 22.
- Miller, Fred J., Appleton, Wis. Hand truck. 1,701,183; Feb. 5.
- Miller, Fred J., Appleton, Wis. Brake for hand trucks. 1,730,676; Oct. 8.
- Miller, Frederick E., assignor to Northern Corrugating Co., Green Bay, Wis. Box or drawer for filing cards. 1,699,904; Jan. 22.
- Miller, Frederick R., Jersey City, N. J. Cooking apparatus. 1,738,255; Dec. 3.
- Miller, George A. (See Morgana, C., Miller, and Willet.)
- Miller, George E., Boston, assignor to The Carter's Ink Company, Cambridge, Mass. Paste brush. 1,706,408; Mar. 5.
- Miller, George F. (See Tubbs, Ira I., assignor.)
- Miller, George H., assignor to Metal Forms Corporation, Milwaukee, Wis. Road form or rail. 1,727,516; Sept. 10.
- Miller, George H., assignor to Metal Forms Corporation, Milwaukee, Wis. Road-rail stake box. 1,734,041; Nov. 5.
- Miller, George J., Doon, Iowa. Barrel lift. 1,704,054; Mar. 26.
- Miller, George L., assignor to Farles Manufacturing Company, Decatur, Ill. Lamp base. Des. 80,239; Dec. 31.
- Miller, George P., Dover-Foxcroft, Me. Gas-saving attachment. 1,707,170; Mar. 26.
- Miller, George W. (See Groff, F., and Miller.)
- Miller, George W., Chicago, Ill., assignor to Bakelite Corporation, New York, N. Y. Phenolic resin and making the same. 1,717,614; June 18.
- Miller, George W., Kansas City, Mo. Brake-beam hanger. 1,739,409; Dec. 10.
- Miller, Gervase E., assignor to Ideal Baby Shoe Company, Inc., Danvers, Mass. Seam-pressing machine. 1,170,097; Jan. 22.
- Miller, H. C., Company. (See Lotter, Adolph G., assignor.)



- Miller, H. C., Company. (See Miller, Henry C., assignor.)
- Miller, H. H., Industries Company, The. (See Miller, Harvey H., assignor.)
- Miller, H. H., Industries Company, The. (See Pfouts, Leroy S., assignor.)
- Miller, Harold W., Waverly, Iowa. Flower holder for cemeteries. 1,717,576; June 18.
- Miller, Harry, et al. (See Miller, Harry, assignor.)
- Miller, Harry, Okmulgee, Okla. Liquid-clarifying apparatus. 1,720,185; July 9.
- Miller, Harry, New York, N. Y. Stock indicator. 1,725,364; Aug. 20.
- Miller, Harry, assignor of forty per cent to J. J. Stecher and sixty per cent to H. Miller, St. Louis, Mo. Heating furnace. 1,716,319; June 4.
- Miller, Harry A. (See Steinberger, H. J., and Miller.)
- Miller, Harry G., Denver, Colo. Valve-seat-facing apparatus. 1,721,310; July 16.
- Miller, Harry G., Denver, Colo., assignor to Miller Service Tool Co., Milwaukee, Wis. Grinding machine. 1,702,267; Feb. 19.
- Miller, Harry G., Denver, Colo., assignor to Miller Service Tool Co., Milwaukee, Wis. Grinding machine. 1,721,309; July 16.
- Miller, Harry L., Chester, Pa. Washer. 1,737,938; Dec. 3.
- Miller, Harry N., Chicago, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Electrolytic condenser. 1,703,680; Feb. 26.
- Miller, Harry N., Chicago, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Semisolid electric conductor. 1,720,371; July 9.
- Miller, Harry N., Chicago, and E. W. Eagle, Lake Forest, assignors to Fansteel Products Company, Inc., North Chicago, Ill. Alternating-current rectifier. 1,717,517; June 18.
- Miller, Harvey H. (See Doster, Jonathan F., assignor.)
- Miller, Harvey H. assignor to The H. H. Miller Industries Company, Canton, Ohio. Churn. 1,714,099; May 21.
- Miller, Henry, Chicago, Ill. Policeman's billy. 1,717,932; June 18.
- Miller, Henry, Lincoln, Nebr. Shirt. 1,721,403; July 16.
- Miller, Henry C., deceased, by A. Giljohann and C. Lotter, assignees, Milwaukee, Wis. Loose-leaf binder. Re17,192; Jan. 15.
- Miller, Henry C., assignor to H. C. Miller Company, Milwaukee, Wis. Loose-leaf binder. 1,713,544; May 21.
- Miller, Henry C., and G. P. Sumner, deceased, London, by M. Sumner, executrix, Acton, England; said M. Sumner assignor to said Henry C. Miller. Hydraulic and other fluid pressure lifting jack. 1,706,309; Mar. 19.
- Miller, Henry F., Piano Company. (See MacDow, George W., assignor.)
- Miller, Herman. (See Horne, William T., assignor.)
- Miller, Hilmar J., St. Louis, Mo. Light holder for Christmas trees. 1,737,381; Nov. 26.
- Miller Industrial Oil Burner Co. (See Novak, Charles G., assignor.)
- Miller, Isaac, Cleveland, Ohio. Bottle. Des. 78,712; June 11.
- Miller, Mrs. J. G. (See Miller, Joseph G., assignor.)
- Miller, J. W., Co. (See Miller, Roy G., assignor.)
- Miller, James A., San Jose, assignor of one-fourth to J. Flam, Los Angeles, and three-eighths to H. F. Elliott, Palo Alto, Calif. Oscillation generator. 1,714,689; May 28.
- Miller, James B., St. Louis, Mo. Furnace. 1,711,802; May 7.
- Miller, James E., and J. A. Cash, assignors to Fred Franke & Co., Louisville, Ky. Automatic feeder for pickers, willows, etc. 1,697,127; Jan. 1.
- Miller, James R., Des Moines, Iowa. Key holder. 1,704,137; Mar. 5.
- Miller, James S., assignor to The Dravo Contracting Company, Pittsburgh, Pa. Building piers. 1,706,246; Mar. 19.
- Miller, Jane R. and A. H., Los Angeles, Calif. Balloon advertising sign. Des. 79,200; Aug. 13.
- Miller, Jean A., Blue Island, Ill. Bathtub and similar structure. 1,738,256; Dec. 3.
- Miller, Jeanne P. and E. F., New York, N. Y. Eye lash comb. 1,727,837; Sept. 10.
- Miller, Jerome J., Chadron, Nebr. Pencil sharpener. 1,719,714; July 2.
- Miller, Jesse P., assignor of one-half to J. H. Thatcher Houma, La. Drill stem. 1,731,171; Oct. 8.
- Miller, John, jr., Beloit, Wis., assignor to Charles H. Besly and Company Chicago, Ill. Work-feeding device for vertical disk grinders. 1,722,589; July 30.
- Miller, John A., Chicago, Ill. Oil-well heater. 1,736,211; Nov. 19.
- Miller, John E., Huntington, W. Va. Dental forceps. 1,730,230; Oct. 1.
- Miller, John H., Oak Park, assignor to Jewell Electrical Instrument Co., Chicago, Ill. Electrical measuring instrument. 1,705,301; Mar. 12.
- Miller, John M., Washington, D. C. Amplifier. 1,724,498; Aug. 13.
- Miller, John M., Washington, D. C. Electrical condenser. 1,724,499; Aug. 13.
- Miller, John R., West Palm Beach, Fla. Stud-aligning tool. 1,735,124; Nov. 12.
- Miller, John W., East Cleveland, Ohio. Water heater. 1,716,649; June 11.
- Miller, John W., Brownwood, Tex. Fishing tool. 1,727,245; Sept. 3.
- Miller, John W., and E. R. Spiegel, Dallas, Tex. Paper weight. 1,731,749; Oct. 15.
- Miller, Joseph E., Havelock, Nebr. Steam-gauge bracket. 1,717,803; June 18.
- Miller, Joseph G., assignor, by mesne assignments, to Mrs. J. G. Miller, Omaha, Nebr. Safety socket. 1,701,476; Feb. 5.
- Miller, Joseph H., Harrisburg, Tex. Bottle-crown remover. 1,696,920; Jan. 1.
- Miller, Kenneth W. (See Halperin, H., and Miller.)
- Miller, Kenneth W., Chicago, assignor of one-half to J. A. Dienner, Evanston, Ill. Surface lamp. 1,724,298; Aug. 13.
- Miller, Kinney I., Lancaster, Mo. Reenforced and ventilated shipping box. 1,706,804; Mar. 26.
- Miller, Larrel C. (See Elard, R. W., and Miller.)
- Miller, Lawrence E., Cowen, W. Va. Reamer. 1,737,510; Nov. 26.
- Miller, Leonard B., Cleveland, Ohio, and W. G. Rinehart, Batesville, Ark., assignors to said Miller. Beneficiating manganese ores. 1,736,615; Nov. 19.
- Miller, Levi B., Lynn, Mass., assignor to General Electric Company. Gas burner. 1,729,677; Oct. 1.
- Miller, Lewis N., Elyria, Ohio. Journal-bearing protector. 1,739,407; Dec. 10.
- Miller, Louis E., Berkeley, assignor of forty per cent to W. J. Glover, San Francisco, Calif. Method and apparatus for forming pipe. 1,718,753; June 25.
- Miller, Louis G., assignor to Bethlehem Steel Company, Bethlehem, Pa. Closure for receptacles. 1,705,131; Mar. 12.
- Miller, Louis R., Norwalk, Wis. Moldboard attachment. 1,740,519; Dec. 24.
- Miller, Martha. (See Crismor, F., and Miller.)
- Miller, Max, New York, N. Y. Building unit. 1,711,241; Apr. 30.
- Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Knitting machine. 1,710,027; Apr. 23.
- Miller, Max C., Cumberland, R. I. Knitting machine. 1,719,121; July 2.
- Miller, Max C., Cumberland, R. I. Method and machine for knitting tubular fabric having closed ends. 1,738,787; Dec. 10.
- Miller, Max C., Cumberland, and F. L. Jenckes, North Kingston, R. I. Match receptacle. 1,734,224; Nov. 5.
- Miller, Max P., Waban, assignor to W. D. Cashin Co., Boston, Mass. Steam trap and valve. 1,705,642; Mar. 19.
- Miller, Max P., Waban, assignor to W. D. Cashin Co., Boston, Mass. Boiler feeder. 1,709,678; Apr. 16.
- Miller, Milton H., Stratford, Ontario, Canada. Rotary engine. 1,699,009; Jan. 15.
- Miller, Milton P., Dubuque, Iowa, assignor to G. D. Wanner, Dayton, Ohio. Kite. 1,704,800; Mar. 12.
- Miller, Monroe E. (See Causey, C. M., and Miller.)
- Miller, Monroe E. (See Fitz Gerald, W. T., and Miller.)
- Miller, Morrow C. (See Harman, M. L., and Miller.)
- Miller, Ned O., Borger, Tex. Paraffin scraper. 1,720,049; July 9.
- Miller, Nicholas, Peckville, Pa. Translating rotary reciprocating motion. 1,716,788; June 11.
- Miller, Nickoli, and W. Bistram, New York, N. Y. Traffic-direction signal. 1,700,296; Jan. 29.
- Miller, Norman B., Brooklyn, N. Y. Packing. 1,709,086; Apr. 16.
- Miller, Oscar, assignor of one-half to F. M. Mitchell, Spokane, Wash. Plant protector. 1,704,801; Mar. 12.
- Miller, Oscar D. (See Koester, Henry A., assignor.)
- Miller, Oscar W., Appleton, Wis. Protector bracket for hand-truck brakes. 1,715,938; June 4.
- Miller, Oscar W., Appleton, Wis. Hand truck. 1,735,541; Nov. 12.
- Miller, Philip M., Brooklyn, N. Y. Manual syringe. 1,732,337; Oct. 22.
- Miller, Philip M., Brooklyn, N. Y., assignor to R. E. H. Incorporated. Demountable-rim joint. 1,733,972; Oct. 29.
- Miller, Philip S. (See Van Brunt, C., and Miller.)
- Miller, Ralph, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Starting and stopping apparatus for internal-combustion engines. 1,713,545; May 21.
- Miller, Ralph P. (See Smith, John C. W., assignor.)
- Miller, Robert E., Bronxville, N. Y. Frame shelf. 1,713,295; May 14.
- Miller, Robert M., Montgomery, Pa. Desk. 1,725,816; Aug. 27.
- Miller, Robert O., New Britain, Conn. Power-transmission mechanism. 1,716,971; June 11.
- Miller, Robert P. (See Hamm, H. A., and Miller.)
- Miller, Robert P. (See Wilson, W. H., and Westberg, assignors.)
- Miller, Robert W., Waterloo, Iowa. Measuring hopper. 1,700,773; Feb. 5.
- Miller, Roy F. (See Mumford, L. M., and Miller.)
- Miller, Roy G., assignor to J. W. Miller Co., Rockford, Ill. Incubator lamp box. 1,719,233; July 2.
- Miller, Roy W. (See White, J. C., and Miller.)
- Miller, Royal E., Chicago, Ill., assignor to The Adlake Company. Damper for ventilators. 1,722,590; July 30.
- Miller Rubber Co. (See Gould, Louis P., assignor.)
- Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)



- Miller Rubber Company, The. (See Lewis, Arthur P., assignor.)
- Miller Rubber Co. (See Lewis, A. P., and Wilson, assignors.)
- Miller Rubber Company, The. (See Riley, Ralph E., assignor.)
- Miller Rubber Company, The. (See Sanderson Phillip W., assignor.)
- Miller Rubber Company, The. (See Smith, Albert G., assignor.)
- Miller Rubber Company, The. (See Steele, Charles W., assignor.)
- Miller, S. Fisher. (See Downes, John R., assignor.)
- Miller, Samuel, New York, N. Y. Textile fabric. Des. 78,303; Apr. 16.
- Miller, Samuel, Philadelphia, Pa. Game. 1,698,271; Jan. 8.
- Miller, Samuel C., Louisville, Ky. Sealed container for bottles. 1,732,059; Oct. 15.
- Miller Saw-Trimmer Company. (See Atzert, Joseph A., assignor.)
- Miller Service Tool Co. (See Miller, Harry G., assignor.)
- Miller, Sherman, Schenectady, N. Y. Electric locomotive. 1,717,058; June 11.
- Miller, Sidney A., Huntington Beach, Calif. Combination carrier and grip. 1,731,078; Oct. 8.
- Miller, Sidney G., Los Angeles, Calif. Ignition device for fuel-supply devices. 1,736,126; Nov. 19.
- Miller, Stephen J., Danbury, Conn. Hat-stretching device. 1,701,160; Feb. 5.
- Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Rotary filter. 1,730,159; Oct. 1.
- Miller, Stuart P., H. E. Hanser, and D. Cooley, Philadelphia, Pa., assignors to The Barrett Company. Compression-producing machine. 1,698,852; Jan. 15.
- Miller, Sven M., Berwyn, Ill. Tappet wrench. 1,708,147; Apr. 9.
- Miller, Swift. (See Van Valkenburg, H. L., and Miller.)
- Miller, Theodore A., assignor to The Akron Standard Mold Company, Akron, Ohio. Collapsible tire-building drum. 1,732,194; Oct. 15.
- Miller, Theodore H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Oil-purifying apparatus for motor-propelled vehicles. 1,731,313; Oct. 15.
- Miller, Thomas S., South Orange, N. J. Engine. 1,738,384; Dec. 3.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Bathing cap. 1,718,060; June 18.
- Miller, Thomas W., assignor to The Faultless Rubber Company, Ashland, Ohio. Production of vulcanized rubber. 1,732,944; Oct. 22.
- Miller, Tony S., and Q. J. Leong, Ryde, Calif. Rotary earth-working element. 1,699,151; Jan. 15.
- Miller, Tony S., and Q. J. Leong, Ryde, Calif. Rotary earth-working element. 1,699,152; Jan. 15.
- Miller, Vernon W., Brice, and J. B. Hoover, Columbus, Ohio. Cabinet furniture. 1,732,481; Oct. 22.
- Miller, Victor F., Queens Village, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone calling dial. 1,711,687; May 7.
- Miller, Walter R., Mansfield, Ohio. Head for steel containers. 1,733,549; Oct. 29.
- Miller, Warren C., Sterling, assignor to Thermatomic Carbon Company, Monroe, La. Fastener for dust-collector bags. 1,703,681; Feb. 26.
- Miller, Warren J., Atlantic City, N. J. Salt and pepper dispenser. 1,734,821; Nov. 5.
- Miller, Wilber B., Flushing, N. Y., assignor to Oxweld Acetylene Company. Welding flux. 1,741,031; Dec. 24.
- Miller, Wilbert E. (See Patterson, Thomas A., assignor.)
- Miller, William, Dunston-on-Tyne, England. Ball or roller clutch. 1,735,125; Nov. 12.
- Miller, William et al. (See Churchill, Adoniram J., assignor.)
- Miller, William A., Lorain, Ohio. Dumping gate for dumping trucks. 1,735,930; Nov. 19.
- Miller, William F., assignor to Rellim Investment Company, Inc., Miami, Fla. Septic tank. 1,715,466; June 4.
- Miller, William G., Highland Park, Mich. Door opener and closer. 1,732,025; Oct. 15.
- Miller, William H., assignor to The Logan Foundry and Machine Company, Logan, Ohio. Cleaning-out machine. 1,730,084; Oct. 1.
- Miller, William H., assignor of one-half to C. J. Reitz, Sunbury, Pa. Parking and guide lights for automobiles. 1,736,616; Nov. 19.
- Miller, William J., Inc. (See Miller, William J., assignor.)
- Miller, William J., Swissvale, Pa. Mold-conveying and pottery-fabricating mechanism. 1,697,993; Jan. 8.
- Miller, William J., Swissvale, Pa. Method and mechanism for feeding plastic material to molds. 1,703,316; Feb. 26.
- Miller, William J., Swissvale, Pa. Process and apparatus for drying ceramic ware. 1,737,259; Nov. 26.
- Miller, William J., Swissvale, Pa. Feeding plastic material to molds. 1,739,981; Dec. 17.
- Miller, William J., Swissvale Borough, assignor, by mesne assignments, to William J. Miller, Inc., Swissvale, Pa. Glass-fabricating machine. 1,700,326 Jan. 29.
- Miller, William J., Swissvale Borough, Pa., assignor to Hartford Empire Company, Hartford, Conn. Process and apparatus for feeding glass. 1,717,802; June 18.
- Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for producing mold charges. 1,738,479; Dec. 3.
- Miller, William J., Swissvale, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for producing mold charges of molten glass. 1,738,499; Dec. 3.
- Millerlei, Arthur G. (See Laine, Clarence G., assignor.)
- Millers Falls Company. (See Miller, Harry G., assignor.)
- Millers Falls Company. (See Parsons, William J., assignor.)
- Milles, Thomas E., McKees Rocks, Pa. Antiskid device. 1,741,065; Dec. 24.
- Millhiser Bag Co. Inc. (See Sorg, Joseph E., assignor.)
- Millican, James A., Detroit, Mich. Apparatus for treating leather. 1,716,076; June 4.
- Milligan, Albert J., San Francisco, Calif. Gas appliance. 1,705,530; Mar. 19.
- Milligan, Frank H., Windsor, Vt. Pusher for screw machines. 1,737,667; Dec. 3.
- Milligan, John F. (See Schauman, B. M., and Milligan.)
- Milligan, Williams G., Akron, Ohio. Hood clamp and the like. 1,698,959; Jan. 15.
- Millikan, Chase C., Kansas City, Kans. Rotary swing. 1,709,273; Apr. 16.
- Milliken, Foster, Lawrence, N. Y., assignor to Milliken Valve Corporation. Lubricated valve. Re17,337; June 25.
- Milliken, John A., Ambler, Pa. Theft-alarm device. 1,708,279; Apr. 9.
- Milliken, John A., Ambler, assignor to J. E. Marsden, Philadelphia, Pa. Apparatus for blowing glass. 1,741,708; Dec. 31.
- Milliken Valve Corporation. (See Milliken, Foster, assignor.)
- Millingar, Harry E., and T. T. Pope, Houston, Tex. Automatic stop. 1,725,469; Aug. 20.
- Millington, Arthur E., Chicago, Ill. Treatment of fibres. 1,708,586; Apr. 9.
- Milliron, Raymond C., Dewey, Okla. Lawn mower. 1,701,416; Feb. 5.
- Millmather, Ernest, Providence, R. I. Aerating apparatus. 1,699,198; Jan. 15.
- Mills, Albert W. (See Bryce, J. W., and Mills.)
- Mills Alloys Inc. (See Mills, Oscar L., assignor.)
- Mills, Arthur, Chicago, Ill. Paint. 1,720,135; July 9.
- Mills, August, Seattle, Wash. Combination bed and tent. 1,712,836; May 14.
- Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Individual expression device for mechanically-played musical instruments. 1,724,140; Aug. 13.
- Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Switch mechanism for electrically-operated musical instruments. 1,727,127; Sept. 3.
- Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Bow-control device for automatic cellos or the like. 1,738,257; Dec. 3.
- Mills, Bert E., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Harmonic device for stringed instruments. 1,739,799; Dec. 17.
- Mills, Brindley J., administrator. (See Mills, Charles B.)
- Mills, Charles B., deceased, B. J. Mills, administrator, Fredericksburg, Va. Ice-cream mold. 1,703,243; Feb. 26.
- Mills, Charles P., assignor to The Duraloy Company, Pittsburgh, Pa. Baffle for boilers, stills, and the like. 1,715,614; June 4.
- Mills, Chester B., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Direct-current gyrocompass. 1,728,185; Sept. 17.
- Mills, Chester B., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Supporting means for gyroscopic compasses. 1,739,251; Dec. 10.
- Mills, David J., Passaic, N. J. Weighing machine. 1,719,482; July 2.
- Mills, Edgar O., Hamburg, Iowa. Heating plant. 1,731,256; Oct. 15.
- Mills, Fred L., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Coin-controlled machine. 1,697,537; Jan. 1.
- Mills, Fred L., assignor to Mills Novelty Company, Chicago, Ill. Combined vending machine and game. 1,700,541; Jan. 29.
- Mills, Fred L., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Coin-controlled machine. 1,706,896; Mar. 26.
- Mills, George W., Jr., Cincinnati, Ohio., assignor to The Philip Carey Manufacturing Company. Expansion joint. 1,720,229; July 9.
- Mills, Harry, Philadelphia, Pa. Loose-leaf binder. 1,718,171; June 18.
- Mills, Harry A. (See Mauk, R. R., and Mills.)
- Mills, Harry P., Toronto, Ontario, Canada, assignor to Bakelite Corporation, New York, N. Y. Laminated product. 1,730,586; Oct. 8.
- Mills, Herbert S., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Rosin-applying device. 1,741,373; Dec. 31.
- Mills, John, Jr., Auburn, Wash. Air brake. 1,711,899; May 7.
- Mills, Louis D., and T. B. Crowe, Palo Alto, assignors to The Merrill Company, San Francisco, Calif. Recovering cyanide from solutions. 1,701,818; Feb. 12.
- Mills, Morgan R. (See Harting, Harry K., assignor.)
- Mills, Mortimer B., assignor to Mills Novelty Company, Chicago, Ill. Weighing scale. 1,702,791; Feb. 19.
- Mills Novelty Company. (See Mills, Bert E., assignor.)
- Mills Novelty Company. (See Mills, Fred L., assignor.)
- Mills Novelty Company. (See Mills, Herbert S., assignor.)



- Mills Novelty Company. (See Mills, Mortimer B., as assignor.)
- Mills Novelty Company. (See Radtke, Bruno, assignor.)
- Mills, Oscar L., Los Angeles, Calif. Making tungsten alloys. 1,721,966; July 23.
- Mills, Oscar L., assignor to Mills Alloys Inc., Los Angeles, Calif. Electric-arc furnace. 1,719,558; July 2.
- Mills, Ronald V. A., Sandy Spring, Md., assignor to P. Q. Nyce, Washington, D. C. Electrochemical means for protecting the interior of pipes against corrosion. 1,705,197; Mar. 12.
- Mills, Russell, Majorville, Alberta, Canada. Weed extractor. 1,710,781; Apr. 30.
- Mills, W. S., Company, The. (See Arnold, Satterlee T., assignor.)
- Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Display reel for holding electric-fixture cord. Des. 79,201; Aug. 13.
- Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Spool or reel. 1,712,278; May 7.
- Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Spool head. 1,712,279; May 7.
- Mills, Wallace C., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Closure. 1,737,860; Dec. 3.
- Mills, William L., Whitman, Mass., assignor to Improved Shoe Methods Corporation, Portland, Me. Welt shoe. 1,727,555; Sept. 10.
- Mills, William P., assignor to Moore Push-Pin Company, Philadelphia, Pa. Card mount or package. 1,697,878; Jan. 8.
- Millson, Elizabeth, Melrose, N. Y. Bath pillow. 1,713,049; May 14.
- Millspaugh, William H., Sandusky, Ohio. Suction roll. 1,700,442; Jan. 29.
- Millspaugh, William H., Sandusky, Ohio. Paper-making machine. 1,715,615; June 4.
- Millspaugh, William H., Sandusky, Ohio. Paper-making method and machine. 1,718,574; June 25.
- Millspaugh, William H., Sandusky, Ohio. Paper-making method and machine. 1,722,503; July 30.
- Millspaugh, William H., assignor to The Paper and Textile Machinery Company, Sandusky, Ohio. Cast-iron pipe and process for making pipe. 1,717,615; June 18.
- Millspaugh, William H., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Paper-making method and machine. 1,718,573; June 25.
- Millspaugh, William H., assignor to The Paper & Textile Machinery Co., Sandusky, Ohio. Mold-forming apparatus. 1,720,741; July 16.
- Millspaugh, William H., assignor to The Paper and Textile Machinery Company, Sandusky, Ohio. Apparatus for making pipes. 1,730,469; Oct. 8.
- Millspaugh, William H., assignor to The Paper and Textile Machinery Company, Sandusky, Ohio. Paper-making method and machine. 1,739,038; Dec. 10.
- Milmo, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Feeding mechanism. 1,711,647; May 7.
- Milmo, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Paper-feeding mechanism for wrapping machines. 1,737,016; Nov. 26.
- Milne, David, assignor, by mesne assignments, to Farrell-Birmingham Company, Incorporated, Ansonia, Conn. Roll for cane mills, crushers and the like. 1,700,571; Jan. 29.
- Milne, David E., Chattanooga, Tenn. Stock-feeding means. 1,734,868; Nov. 5.
- Milne, Samuel, Edinburgh, Scotland. Apparatus for cutting grass in connection with paper making. 1,706,935; Mar. 26.
- Milne, William G., Toronto, Ontario, Canada. Necktie. 1,702,544; Feb. 19.
- Milner, Pleasant, Crowley, La. Tire-tube-testing device. 1,707,130; Mar. 26.
- Milnes, George D. (See Abbot, C. C. and Milnes.)
- Milnor, Joseph W. (See Sindeband, M. L., Tidd, and Milnor.)
- Milnor, Joseph W., Maplewood, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Neutralizing interfering disturbances in electric circuits. 1,714,476; May 21.
- Milnor, Joseph W., Maplewood, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Correcting circuit for ocean-cable relays. 1,717,116; June 11.
- Milosewicz, Kasimir, London, England. Multiple string-holding device. 1,731,347; Oct. 15.
- Miltenberger, Alexander. (See Chance, Lawrence E., assignor.)
- Milton Cork Company, The. (See Lundell, F. C., and Regan, assignors.)
- Milton, Thomas W., et al. (See Fisher, Carl G., assignor.)
- Milvat Manufacturing Co., The. (See Fix, Lewis E., assignor.)
- Milwaukee Corrugating Company. (See Miller, E. S., Stambaugh, and McKown, assignors.)
- Milwaukee Corrugating Company. (See Rose, Leo W., assignor.)
- Milwaukee Die Casting Co. (See Schroeder, Henry F., assignor.)
- Milwaukee Electric Railway & Light Company. (See Lucas, John H., assignor.)
- Milwaukee Flush Valve Company, The. (See Judell, Julius S., assignor.)
- Milwaukee Flush Valve Company, The. (See Judell, J. S., and Bittel, assignors.)
- Milwaukee Gas Specialty Company. (See Johnson, Roy W., assignor.)
- Milwaukee Ignition Company. (See Dearmann, James, assignor.)
- Milwaukee Lace Paper Company. (See Hamilton, Raymond N., assignor.)
- Milwaukee Paper Box Company. (See Carlson, Walter C., assignor.)
- Milwaukee Printing Company. (See Lasher, Charles W., Jr., assignor.)
- Milwaukee Stamping Company. (See Bartlett, Edwin B., assignor.)
- Mimaki, Hironobu, C. Andow, and M. Mutaguchi, El Paso, Tex. Retaining wall for embankments. 1,702,610; Feb. 19.
- Minahan, Jeremiah T., Audubon, N. J. Safety razor. 1,710,548; Apr. 23.
- Minchenberg, David, New York, N. Y. Dress. Des. 77,974; Mar. 12.
- Minck, Paul, Petersdorf, Germany. Elastic coupling. 1,737,321; Nov. 26.
- Minck, Paul H., Berlin-Wilmersdorf, Germany. Machine for treating cottonseed hulls. 1,725,013; Aug. 20.
- Mine Safety Appliances Company. (See Davies, John B., assignor.)
- Mine Safety Appliance Company. (See Yablick, Max, assignor.)
- Minelli, Giuseppe, Dawson, N. Mex. Motor-vehicle seat. 1,701,417; Feb. 5.
- Miner, Carl S. (See Nash, C. A., Trickey, and Miner.)
- Miner, Carl S. (See Trickey, J. P., and Miner.)
- Miner, Carl S., Chicago, Ill., and H. J. Brownlee, Cedar Rapids, Iowa, assignors to Quaker Oats Company, Chicago, Ill. Manufacturing furfural. 1,735,084; Nov. 12.
- Miner, Claude G., Berkeley, Calif. Producing aluminum chloride. 1,698,238; Jan. 8.
- Miner, Claude G., Berkeley, Calif. Making phosphorus nitride. 1,715,041; May 28.
- Miner, Claude G., Berkeley, Calif. Producing phosphorus chloride from phosphate rock. 1,730,521; Oct. 8.
- Miner, Ellsworth F., Litchfield, Conn. Electric switch. 1,704,401; Mar. 5.
- Miner, George H., and W. J. McClelland, San Francisco, Calif., assignors by mesne assignments to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. 1,707,361; Apr. 2.
- Miner, Robert C., Wilkes-Barre, Pa. Whipper. 1,722,104; July 23.
- Miner, W. H., Inc. (See Brenne, Arild M., assignor.)
- Miner, W. H., Inc. (See Fuchs, Henry, assignor.)
- Miner, W. H., Inc. (See Geiger, William A., assignor.)
- Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
- Miner, W. H., Inc. (See Johnson, George A., assignor.)
- Miner, W. H., Inc. (See Lewis, Goodrich Q., assignor.)
- Miner, W. H., Inc. (See Lindeman, James E., assignor.)
- Miner, W. H., Inc. (See Lounsbury, Harvey J., assignor.)
- Miner, W. H., Inc. (See McMullen, John, assignor.)
- Miner, W. H., Inc. (See Miner, William H., assignor.)
- Miner, W. H., Inc. (See O'Connor, John F., assignor.)
- Miner, W. H., Inc. (See Strid, Sven J., assignor.)
- Miner, W. H., Inc. (See Wear, Tandy R., assignor.)
- Miner, William H., Chazy, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,698,727; Jan. 15.
- Miner, William H., Chazy, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,730,522; Oct. 8.
- Miner, William H., Chazy, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,730,860; Oct. 8.
- Mineral A. G. Brig. (See Plauson, Hermann, assignor.)
- Minerals Separation North American Corporation. (See Keller, Cornelius H., assignor.)
- Minerals Separation North American Corporation. (See Lewis, Carl P., assignor.)
- Minerals Separation North American Corporation. (See Nutter, E. H., and Littleford, assignors.)
- Mines Brothers. (See Mines, Herman, assignor.)
- Mines, Henry M., Liverpool, assignor to F. Curd, London, England. Phosphorescent or luminous mass or compound. 1,716,972; June 11.
- Mines, Herman, assignor to Mines Brothers, New York, N. Y. Leg band for trousers. 1,739,687; Dec. 17.
- Minetty, George A., Davenport, Iowa. Dumping car. 1,725,994; Aug. 27.
- Mingo, Walter G., Southboro, and W. B. Rich, Brookline, Mass. Windshield heater. 1,712,154; May 7.
- Mingus, Leslie C. (See Dunn, I. L., and Mingus.)
- Minich, Verne E. (See Graf, Fred, assignor.)
- Minich, Verne E. (See Wilhelm, Harold F., assignor.)
- Miniere, Salvatore, Pittsburgh, Pa. Receptacle. 1,714,394; May 21.
- Mining Safety Device Company. (See Merritt, Glenn W., assignor.)
- Minkewicz, August, Plymouth, Pa. Combination bench. 1,726,406; Aug. 27.
- Minneapolis Bedding Company. (See Dobbs, Loyal D., assignor.)
- Minneapolis Bedding Company. (See Way, Charles M., assignor.)
- Minneapolis-Honeywell Regulator Company. (See Denison, Frederick S., assignor.)
- Minneapolis-Honeywell Regulator Company. (See Denison, F. S., and Cunningham, assignors.)
- Minneapolis-Honeywell Regulator Company. (See Shivers, Paul F., assignor.)



- Minneapolis-Honeywell Regulator Company. (See Sweatt, Harold W., assignor.)
- Minneapolis Honeywell Regulator Company. (See Taylor, Daniel G., assignor.)
- Minnece, John M., Berwyn, Ill. Shingle. 1,714,800; May 28.
- Minnesota Mining and Manufacturing Company. (See Carlton, Richard P., assignor.)
- Minnesota Mining & Manufacturing Company. (See Power, Henry R., assignor.)
- Minnear, David S. (See Cowan, C. M., and Minnear.)
- Minogue Engineering Company. (See Minogue, Roland E., assignor.)
- Minogue, Roland E., assignor of one-third to H. Vanderworp, Manitowoc, Wis. Agitator. 1,704,013; Mar. 5.
- Minogue, Roland E., assignor to Minogue Engineering Company, Manitowoc, Wis. Rotary-kiln feed. 1,707,191; Mar. 26.
- Minor, Burt S., assignor to Regan Forge and Engineering Company, San Pedro, Calif. Antiswiveling device for suspension hooks. 1,733,508; Oct. 29.
- Minor, Burt S., San Pedro, and J. J. Regan, Los Angeles, assignors to Regan Forge and Engineering Company, San Pedro, Calif. Hook for handling oil-well casings and the like. 1,733,509; Oct. 29.
- Minor, Herbert H. (See Coon, C. C., and Minor.)
- Minorsky, Nicolai, Belmar, N. J. Directional stabilizer. 1,703,280; Feb. 26.
- Minorsky, Nicolai, Lansdowne, Pa. Automatic steering device. 1,703,317; Feb. 26.
- Minshall, Robert J. (See Monteith, C. N., Arnold, and Minshall.)
- Minter, Clarke C., Bloomfield, N. J. Internal-combustion engine. 1,741,032; Dec. 24.
- Minton, David C., Norfolk, Va. Four-in-hand tie structure. 1,737,322; Nov. 26.
- Minton, Gustave M., jr. New York, N. Y. Atomizer holder. Des. 77,560; Jan. 22.
- Minton, John S., Greeley, Colo. Road drag. 1,701,689; Feb. 12.
- Minton Vacuum Dryer Corporation. (See Alexander, John E., assignor.)
- Mintz, Harry, Boston, Mass. Couch hammock. 1,716,650; June 11.
- Mintz, Morris. (See Kaufman, D., and Mintz.)
- Minunno, Saverio, Brooklyn, N. Y. Combination hand fan. 1,713,976; May 21.
- Minuth, Gustave W., assignor to Electric Rotary Machine Co., Chicago, Ill. Floor-surfacing machine. 1,698,554; Jan. 8.
- Minyard, William M., Los Angeles, Calif. Milk-bottle carrier. 1,716,236; June 4.
- Minzoff, Jack, Sugar Pine, Calif. Fire tongs. 1,717,396; June 13.
- Miozza, Umberto, Washington, D. C. Wedge attachment for shoes. 1,703,045; Feb. 19.
- Mir, Jorge C. (See Cardoso, R. A., Merlán, and Mir.)
- Mirabella, Colombo, New York, N. Y., S. Tornadore and L. Pantani, Genoa, Italy. Concrete brick and building therewith. 1,710,833; Apr. 30.
- Miracle, Forest H., assignor to L. G. Owen, Tulsa, Okla. Swab. 1,726,407; Aug. 27.
- Miret, Ricardo, New York, N. Y. Imitation linen and making it. 1,721,082; July 16.
- Mirfield, George E., assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Manufacturing well points. 1,709,998; Apr. 23.
- Mirick, Carlos B., Washington, D. C. Remote control device. 1,703,350; Feb. 26.
- Mirizio, Vincent C., New York, N. Y. Arch support. 1,709,183; Apr. 16.
- Mirkin, Max, New York, N. Y. Clamp. 1,716,928; June 11.
- Mirkin, Max, assignor to H. Rudman, New York, N. Y. Bathtub. 1,726,752; Sept. 3.
- Mirkin, Max, assignor to H. Rudman, New York, N. Y. Bathtub. 1,726,753; Sept. 3.
- Mirrey, James. (See Coates, F., and Mirrey.)
- Mishawaka Rubber & Woolen Manufacturing Company. (See Blair, George W., assignor.)
- Mishawaka Rubber and Woolen Manufacturing Company. (See Bush, Paul L., assignor.)
- Mishawaka Rubber and Woolen Manufacturing Company. (See Ferrettie, Conrad, assignor.)
- Mishawaka Rubber and Woolen Manufacturing Company. (See Kennedy, John B., assignor.)
- Mishawaka Rubber and Woolen Manufacturing Company. (See Kennedy, J. B., and De Groote, assignors.)
- Mishawaka Rubber and Woolen Manufacturing Company. (See Saunders, Emmett A., assignor.)
- Mishawaka Rubber and Woolen Manufacturing Company. (See Van Dinter, G. L., and Ferrettie, assignors.)
- Mishima, Tsunejiro. (See Aoyama, Kichizayemon, assignor.)
- Missien, Edward J., Pittsburgh, Pa., assignor to Central Electric Tool Company. Controlling reciprocating motors. 1,716,789; June 11.
- Mission Hosiery Mills. (See Tluka, Louis, assignor.)
- Mississippi Glass Company. (See Franzen, Nicklas, assignor.)
- Mississippi Glass Company. (See Humphreys, Richard D., assignor.)
- Mistral, Paul H., Boulogne-sur-Seine, France. Live axle having driving wheels. 1,712,155; May 7.
- Mistretta, Antonio, New York, N. Y. Trimming device for sewing-machine attachments. 1,713,296; May 14.
- Misuraca, William N., Brooklyn, assignor to American Can Company, New York, N. Y. Photographing machine. 1,729,176; Sept. 24.
- Mitcham, Edward H., New York, N. Y. Fruit squeezer. 1,734,265; Nov. 5.
- Mitchell, Albert R., Lincoln, Nebr. Antislipping device. 1,716,790; June 11.
- Mitchell, Albert W., assignor to The Whirldry Corporation, New Haven, Conn. Laundry-machine clutch. 1,727,933; Sept. 10.
- Mitchell, Algie R., Fort Thomas, Ky. Automatic shade roller. 1,741,871; Dec. 31.
- Mitchell, Allister S., assignor to California Cotton Mills Company, Oakland, Calif. Batt-inserting tool. 1,705,063; Mar. 12.
- Mitchell, Allister S., Detroit, Mich., assignor to California Cotton Mills Company, Oakland, Calif. Batt-inserting tool. 1,705,064; Mar. 12.
- Mitchell, Benjamin A., Tompkinsville, N. Y. Impeller for vibrators. 1,719,122; July 2.
- Mitchell, Benjamin A., Tompkinsville, N. Y. Impeller for vibrators for crushers, etc. 1,719,123; July 2.
- Mitchell, Bernard E. (See Morris, J. L., and Mitchell.)
- Mitchell Camera Co. (See Mitchell, George A., assignor.)
- Mitchell, Charles G., Montreal, Quebec, Canada. Adjustable frame. 1,702,358; Feb. 19.
- Mitchell, Chauncey L., Winchester, assignor to Refrigeration Corporation of America, Boston, Mass. Refrigerator construction. 1,734,771; Nov. 5.
- Mitchell, Clyde C., Marion, Ohio. Switch lock. 1,714,274; May 21.
- Mitchell & Company Proprietary Limited. (See Essex, Albert, assignor.)
- Mitchell, Courtney N., Cleveland, Ohio. Shock absorber. 1,699,707; Jan. 22.
- Mitchell, Courtney N., Cleveland, Ohio. Method of and apparatus for welding tubes. 1,731,390; Oct. 15.
- Mitchell, Dale I., Talbot, Ind. Corn harvester. 1,729,648; Oct. 1.
- Mitchell, Doren, New York, N. Y., assignor to American Telephone and Telegraph Company. Echo suppressor. 1,728,247; Sept. 17.
- Mitchell, Doren, New York, and H. C. Silent, Larchmont, N. Y., assignors to American Telephone and Telegraph Company. Echo suppressor. 1,738,536; Dec. 10.
- Mitchell, Edward C., Phillips, Me. Saw. 1,724,802; Aug. 13.
- Mitchell, Edward T., Sacramento, Calif., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,697,433; Jan. 1.
- Mitchell, F. M. (See Miller, Oscar, assignor.)
- Mitchell, Frank A., London, England, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Talking machine and the like. 1,722,105; July 23.
- Mitchell, Frank B., Hove, England. Sound-reproducing machine. 1,731,750; Oct. 15.
- Mitchell, George A., Huntington Park, Calif. Constant-speed drive. 1,701,189; Feb. 5.
- Mitchell, George A., assignor to Mitchell Camera Co., Los Angeles, Calif. Tilting head for camera tripods. 1,723,294; Aug. 6.
- Mitchell, George W. (See Marshall, Andrew J., assignor.)
- Mitchell, Harry A., et al. (See Miller, Frank A., assignor.)
- Mitchell, Harry D., Hermosa Beach, Calif. Brush. 1,700,947; Feb. 5.
- Mitchell, Harry D., Hermosa Beach, Calif. Shear-blade corrugator. 1,704,334; Mar. 5.
- Mitchell, Henry T., assignor to T. G. Johnson, Kansas City, Mo. Fire alarm. 1,735,907; Nov. 19.
- Mitchell, Holger L., assignor to Harnischfeger Corporation, Milwaukee, Wis. Tripping device for the bucket door of power shovels. 1,699,371; Jan. 15.
- Mitchell, Holger L., assignor to Harnischfeger Corporation, Milwaukee, Wis. Flexible-tread truck. 1,725,817; Aug. 27.
- Mitchell, Holger L., and R. Ljungkull, assignors to Harnischfeger Corporation, Milwaukee, Wis. Power shovel. 1,739,175; Dec. 10.
- Mitchell, Jeanne, Hollywood, Calif. Toy. Des. 77,365; Jan. 1.
- Mitchell, John B., St. Louis, Mo. Combined cotton recleaner and gin. 1,707,131; Mar. 26.
- Mitchell, John E., St. Louis, Mo. Cotton gin. 1,724,500; Aug. 13.
- Mitchell, John E., St. Louis, Mo. Cotton separating and cleaning machine. 1,734,592; Nov. 5.
- Mitchell, John E. and O. St. Louis, Mo. Combined cotton recleaner and gin. 1,710,061; Apr. 23.
- Mitchell, John E. and O., St. Louis, Mo. Cotton gin. 1,734,593; Nov. 5.
- Mitchell, John R., Trenton, N. J. Arrangement for handling porcelain ware. 1,709,733; Apr. 16.
- Mitchell, John R., Trenton, N. J. Cleaning machine. 1,717,577; June 18.
- Mitchell, John R., Trenton, N. J. Guide for textile machines. 1,740,311; Dec. 17.
- Mitchell, John S., Windfall, Ind. Apparatus for grading livestock. 1,703,244; Feb. 26.
- Mitchell, Joseph E., Eastport, Me. Fish-tray-cleaning apparatus. 1,698,059; Jan. 8.
- Mitchell, Joseph I. (See Adams, E. H., and Mitchell.)
- Mitchell, Oliver. (See McDonough, J. H., and Mitchell.)
- Mitchell, Orville. (See Mitchell, J. E. and O.)
- Mitchell, Orville. (See Mitchell, John E. and O.)



- Mitchell, Orville, St. Louis, Mo. Roll construction and frame member therefor. 1,727,128; Sept. 3.
- Mitchell, P. R., Co., The. (See Brewer, Warren, assignor.)
- Mitchell, Percival H., Toronto, Ontario, Canada. Tooth-brush. 1,724,955; Aug. 20.
- Mitchell, Peter, Winnipeg, Manitoba, Canada. Safety device for engine cylinders. 1,715,245; May 28.
- Mitchell, Portis H., Dallas, Tex. Gauge. 1,733,550; Oct. 29.
- Mitchell, Raymond J., Taplow, and A. T. Hawkins, London, England, assignors to Frigidaire Corporation, Dayton, Ohio. Preventing condensation on transparent partitions between regions of different temperatures. 1,725,664; Aug. 20.
- Mitchell, Robert, et al. (See Copeland, Harry A., assignor.)
- Mitchell, Robert J., assignor to A. G. Spalding & Bros., New York, N. Y. Boxing glove. 1,739,013; Dec. 10.
- Mitchell, Robert M., Chicago, Ill., assignor to International Harvester Company. Corn picker. 1,734,391; Nov. 5.
- Mitchell, Singleton R., Long Beach, Calif. Method and apparatus for protection against cold. 1,727,481; Sept. 10.
- Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Treating ores. 1,736,659; Nov. 19.
- Mitchell, Thomas A., assignor to L. M. Hughes, Denver, Colo. Chlorinating ores. 1,736,660; Nov. 19.
- Mitchell, Thomas W., Indianapolis, Ind. Bath attachment. 1,739,163; Dec. 10.
- Mitchell, Tom W., Lake Creek, Tex. Cotton-sack protector. 1,707,869; Apr. 2.
- Mitchell, Walter M., Philadelphia, Pa., assignor, by mesne assignments, to Electro Metallurgical Company. Casting having chromium-alloy surface. 1,724,299; Aug. 13.
- Mitchell, Walter T., assignor of one-third to W. S. Fornay, Detroit, Mich. Coin-control and change-making device. 1,737,511; Nov. 26.
- Mitchell, William J., Spokane, Wash. Drill-rod clamp. 1,730,619; Oct. 8.
- Mitchell, William K., Yonkers, N. Y. Tea ball. 1,723,702; Aug. 6.
- Mitchell, William L., Brooklyn, N. Y., assignor to Battle Creek Surgical Supply & Supporter Corporation, Battle Creek, Mich. Extensible rod. 1,705,625; Mar. 19.
- Mitkoff, Gabriel G., New York, N. Y. Ironing board. 1,729,353; Sept. 24.
- Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,699,153; Jan. 15.
- Mittasch, Alwin, and G. Wietzel, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Catalytically manufacturing phosphoric acid and hydrogen. 1,732,373; Oct. 22.
- Mittasch, Alwin, C. Müller, Mannheim, L. Schlecht, and W. Schubardt, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of hydrocarbons. 1,698,602; Jan. 8.
- Mittell, Branchley E. G. (See Reddie, L. N., and Mittell.)
- Mittell, Branchley E. G., Iver, England, assignor to Victor Talking Machine Company, Camden, N. J. Control for wireless receiving sets. 1,704,802; Mar. 12.
- Mittell, Branchley E. G., Iver, England, assignor to Victor Talking Machine Company. Control for wireless receiving sets and other electrical apparatus. 1,709,274; Apr. 16.
- Mittendorf, William R., Cincinnati, Ohio, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Computing scale. 1,713,774; May 21.
- Mittendorf, William R., Cincinnati, Ohio, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Computing scale. 1,729,788; Oct. 1.
- Mittendorf, William R., Cincinnati, Ohio, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Scale. 1,729,789; Oct. 1.
- Mittendorf, William R., Cincinnati, Ohio, assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Calculating device. 1,731,536; Oct. 15.
- Mittermeir, Hermann. (See Williams, N. H., and Mittermeir.)
- Mitton, Robert E., Salt Lake City, Utah. Fluid valve. 1,721,349; July 16.
- Mitton, Robert E., Salt Lake City, Utah, assignor, by mesne assignments, to International Air Brake Company. Air valve. Re17,402; Aug. 13.
- Mitton, William E., New London, Wis., assignor to The Borden Company, New York, N. Y. Can-inverting device for can-washing machines. 1,721,255; July 16.
- Mitton, William E., New London, Wis., assignor to The Borden Company, New York, N. Y. Cover-replacing device for can-washing machines. 1,721,256; July 16.
- Mitzenius, Charles W., Jersey City, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-securing means. 1,706,071; Mar. 19.
- Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt Buckle. Des. 80,140; Dec. 17.
- Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt for personal wear. 1,707,562; Apr. 2.
- Miyahara, Nasayasu, Kobe, Japan. Mercuric cyanide tartrate and making it. 1,732,106; Oct. 15.
- Miyaoka, Yataro, Spokane, Wash. Car-door signal. 1,727,838; Sept. 10.
- Mizer, Joseph J. (See Walker, W. H., Mizer, and Dearsley.)
- Mizner, Addison, assignor to Addison Mizner, Inc., Palm Beach, Fla. Chair or similar article. Des. 78,304; Apr. 16.
- Mizner, Addison, Inc. (See Mizner, Addison, assignor.)
- Mizoguchi, Takisaburo, and T. Kawahara, Kanagawa-Ken, Japan. Fuel-saving device. 1,709,032; Apr. 16.
- Mjolsness, Haakon, Minneapolis, Minn. Grain separator and recleaning device. 1,705,302; Mar. 12.
- Mjolsness, Haakon, Minneapolis, Minn. Scalper and aspirator. 1,737,260; Nov. 26.
- Mladinich, Frank, New York, N. Y. Helicopter-type flying machine. 1,705,489; Mar. 19.
- Mlinko, János, Heves, Hungary. Differential gear for motor vehicles. 1,704,803; Mar. 12.
- Moan, William E., Evanston, Ill. Milk-can holder. 1,725,014; Aug. 20.
- Mobbs, Herbert, Northampton, England. Top for motor vehicles. 1,715,940; June 4.
- Mobley, Claud S., assignor to General Motors Corporation, Detroit, Mich. Brake equalizer. 1,717,616; June 18.
- Mobley, Henry G., League City, Tex. Plunger-wiping device. 1,725,593; Aug. 20.
- Mobley, William E., Los Angeles, Calif. Sign-cloth holder. 1,710,429; Apr. 23.
- Moche, Spero. (See Naud, J., and Moche.)
- Mocigemba, Emanuel, Essen, Germany. Gear pump or engine. 1,738,602; Dec. 10.
- Mock, George W., Roaring Spring, Pa. Inside trouser seat and pad. 1,711,611; May 7.
- Mockel, Edmund, Dusseldorf, Germany. Device for insuring correct finger position in writing. 1,702,660; Feb. 19.
- Mockley, John E., Oakland, Calif. Radio cabinet. Des. 77,909; Mar. 5.
- Model Brassiere Co. (See Rose, Harold D., assignor.)
- Modern Advertising Machines Limited. (See Armstrong, Henry, assignor.)
- Modern Lighting Fixture Co. (See Di Gaudio, John, assignor.)
- Modern Machine Works, Inc. (See Buday, J., and Meyer, assignor.)
- Modern Office Devices, Inc. (See Glaeser, Ado, assignor.)
- Modern Pouring Device Company. (See Goldberg, Max W., assignor.)
- Modern Utilities Company. (See Frantz, Grover C., assignor.)
- Modine, Arthur B., Racine, Wis. Radiator construction. 1,703,682; Feb. 26.
- Modine, Arthur B., Racine, Wis. Cooling apparatus. 1,709,863; Apr. 23.
- Modine, Arthur B., Racine, Wis. Heat-exchange device. 1,726,361; Aug. 27.
- Modine, Arthur B., Racine, Wis. Heating apparatus. 1,726,275; Aug. 27.
- Modine, Arthur B., Racine, Wis. Radiator construction. 1,726,360; Aug. 27.
- Modine, Arthur B., Racine, Wis. Soldering radiator fins. 1,730,470; Oct. 8.
- Modisette, James C. (See Haynes, Rufus L., assignor.)
- Modolell, Juan O., Barcelona, Spain. Cultivator. 1,715,467; June 4.
- Moe, Andrew O. (See Hall, James H., assignor.)
- Moe, Andrew O., Toppenish, Wash. Fruit and vegetable sizing and grading machine. 1,725,665; Aug. 20.
- Moe-Bridges Company. (See Sutherland, Alexander K., assignor.)
- Moe, Christ, Minneapolis, Minn. Test-bottle holder for creameries. 1,735,051; Nov. 12.
- Moe, Edward E., Omaha, Nebr. Airship. 1,726,754; Sept. 3.
- Moe, Sigurd A. (See Moe, Sivert and S. A.)
- Moe, Sivert and S. A., Chicago, Ill. Dampening device for plate cylinders in offset-process printing presses. 1,719,017; July 2.
- Moecker, Arnold H., Flossmoor, Ill., assignor to American Stove Company, St. Louis, Mo. Range. Des. 79,932; Nov. 19.
- Moecker, Henry, jr., Flossmoor, and O. Hammermeister, Harvey, Ill., assignors to American Stove Company, St. Louis, Mo. Combined gas burner and grate. 1,734,869; Nov. 5.
- Moecker, Henry, jr., Flossmoor, and T. Thompson, Harvey, Ill., assignors to American Stove Company, St. Louis, Mo. Gas range. 1,735,779; Nov. 12.
- Moecker, Henry, jr., Flossmoor, and T. Thompson and O. Hammermeister, Harvey, Ill., assignors to American Stove Company, St. Louis, Mo. Range. 1,699,403; Jan. 15.
- Mochler, Otto J., Newark, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Switch mounting. 1,701,725; Feb. 12.
- Moeller, Adolf, Eberswalde, near Berlin, Germany, assignor to O. Mustad & Son, Oslo, Norway. Manufacture of horseshoe nails. 1,700,685; Jan. 29.
- Moeller, Benjamin A., San Diego, Calif. Bed-cover-holding device. 1,709,275; Apr. 16.
- Moeller, Benjamin A., Los Angeles, Calif. Foam conductor for oil tanks. 1,733,551; Oct. 29.



- Moeller, Benjamin A., San Diego, Calif. Bedcover-holding device. 1,736,212; Nov. 19.
- Moeller, Carl, New York, N. Y. Hat protector. 1,714,100; May 21.
- Moeller, Edward J., and J. J. Hagen, St. Louis, Mo. Nut-castelling machine. 1,699,010; Jan. 15.
- Moeller, Max, M. Schleicher, Berlin-Charlottenburg, and K. Kluge, Berlin-Wilmersdorf, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Arrangement for regulation of steam boilers. 1,732,060; Oct. 15.
- Moeller, Otto L., Moberly, Mo. Awning structure. 1,730,085; Oct. 1.
- Moench, Charles, Terre Haute, Ind. Hot-air furnace. 1,732,061; Oct. 15.
- Moersch, Oliver J., Detroit, Mich. Necktie. 1,703,632; Feb. 26.
- Moeschlin, Fritz, Winterthur, Switzerland. Apparatus for currently marking and simultaneously stamping a number on goods ready for dispatch. 1,701,583; Feb. 12.
- Moesta, Marvin W., Detroit, Mich. Spot-welding machine. 1,703,683; Feb. 26.
- Moesta, Marvin W., Detroit, Mich., assignor to The Murray Corporation of America. Scuff plate and retaining means therefor for vehicle bodies. 1,704,138; Mar. 5.
- Moesta, Marvin W., Detroit, Mich., assignor to The Murray Corporation of America. Joining frame members of vehicle bodies. 1,737,861; Dec. 3.
- Moffa, John J., Ateo, N. J. Portable revolving motor-oil stand. 1,712,577; May 14.
- Moffatt, Frederick W., Weston, Ontario, Canada. Electric heating element. 1,709,438; Apr. 16.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Differential feeding mechanism. Re17,229; Mar. 5.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Loop retainer for sewing machines. 1,702,792; Feb. 19.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Cup-feed machine. 1,708,024; Apr. 9.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Hemming or welting machine. 1,712,047; May 7.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Thread controller for sewing machines. 1,723,195; Aug. 6.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Thread controller for sewing machines. 1,723,196; Aug. 6.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 1,726,853; Sept. 3.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Fur-sewing machine. 1,731,079; Oct. 8.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Reversible feed for sewing machines. 1,731,080; Oct. 8.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing machines. 1,731,105; Oct. 8.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Thread controller for sewing machines. 1,732,979; Oct. 22.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Machine for lapping and stitching fabric sections. 1,741,872; Dec. 31.
- Moffatt, James R., Chicago, and R. S. Kelso, Rockford, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine. 1,736,458; Nov. 19.
- Moffit, Lamont E., Brooklyn, N. Y. Cable grip. 1,706,805; Mar. 26.
- Moffitt, George W., Philadelphia, Pa. Coincidence prism. 1,722,964; July 30.
- Moffitt, Percy R., Pawtucket, R. I. Spindle-retaining device. 1,717,461; June 18.
- Mog, George J., Cleveland, Ohio. Water-tube boiler. 1,726,234; Aug. 27.
- Mogen, Edward A., Watrous, Saskatchewan, Canada. Dirigible headlight for automobiles. 1,701,789; Feb. 12.
- Mogford, Edmund C., assignor to Clark Equipment Company, Buchanan, Mich. Axle for motor vehicles. 1,702,516; Feb. 19.
- Mogford, Edmund C., assignor to Clark Equipment Company, Buchanan, Mich. Vehicle wheel bearing. 1,719,941; July 9.
- Mogk, Henry B., Detroit, Mich. Clothes washer. 1,711,422; Apr. 30.
- Mohatt, Edward F. and L. C. Green River, Wyo. Internal-combustion engine. 1,698,920; Jan. 15.
- Mohatt, Leo C. (See Mohatt, Edward F. and L. C.)
- Mohawk Asphalt Heater Company. (See Van Vorst, J., and Baker, assignors.)
- Mohawk Carpet Mills, Inc. (See Crossland, George, assignor.)
- Mohn, Elmer J., and C. M. Maland, Elmore, Minn. Car-pule refiller. 1,737,512; Nov. 26.
- Mohn, Erwin, Rochester, Minn. Electrically-operated sign. 1,726,912; Sept. 3.
- Mohr, Albert W. T. (See Herman, G. N., and Mohr.)
- Mohr, Anders N. F., Boseman, Mont. Harrow. 1,718,248; June 25.
- Mohr, Arthur B., Steele, N. Dak. Water-heating attachment. 1,721,463; July 16.
- Mohr, Franklin, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,715,561; June 4.
- Mohr, Henry C., Victor, Iowa. Trap construction. 1,725,470; Aug. 20.
- Mohr, Joseph M., assignor to Mohr Manufacturing Co., Inc., Marshalltown, Iowa. Double-acting spring-hinge device. 1,721,967; July 23.
- Mohr Manufacturing Co. (See Mohr, Joseph M., assignor.)
- Mohr, Walter W., Chicago, Ill., assignor to The Edward Valve and Manufacturing Company, East Chicago, Ind. Valve-operating mechanism. 1,731,814; Oct. 15.
- Mohr, Wilhelm, Dolau Bez. Halle-on-the-Saale, Germany. Dough dividing and working machine. 1,721,083; July 16.
- Mohun, John L., Omaha, Nebr. Journal box. 1,728,433; Sept. 17.
- Mohun, John L., Omaha, Nebr., assignor to Franklin Railway Supply Company. Locomotive firing equipment. 1,727,934; Sept. 10.
- Mohun, John L., and H. Piesch, Omaha, Nebr. Railroad-car-window construction. 1,721,828; July 23.
- Mohun, John L. and H. Piesch, Omaha, Nebr., assignor to National Lock Washer Company, Newark, N. J. Railroad-car-window construction. 1,725,365; Aug. 20.
- Moir, Arrol, Kent, England. Skid for raising and stacking bricks. 1,725,471; Aug. 20.
- Moir, William A., Burwood, near Sydney, New South Wales, Australia. Springing system of motor road vehicles. 1,726,189; Aug. 27.
- Moisant, Alfred J., assignor to Stockbridge & Borst, New York, N. Y. Apparatus for dispensing liquids. 1,705,940; Mar. 19.
- Moisant, Alfred J., assignor to Stockbridge & Borst, New York, N. Y. Liquid-dispensing device. 1,711,900; May 7.
- Moisselle, David B., Philadelphia, Pa. Rail joint. 1,720,426; July 9.
- Moisson, George M., Greenville, S. C. Circus toy wagon. Des. 77,366; Jan. 1.
- Moisson, George M., Greenville, S. C. Toy wagon. Des. 77,367; Jan. 1.
- Mojonnier Bros. Co. (See Malone, John E., assignor.)
- Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)
- Mojonnier Bros. Co. (See Mojonnier, Oliver W., assignor.)
- Mojonnier Bros. Co. (See Mojonnier, J. J., Phillips, and Clarke, assignors.)
- Mojonnier Bros. Co. (See Phillips, Harley R., assignor.)
- Mojonnier, Julius J., Oak Park, Ill., assignor to Mojonnier Bros. Co. Conveyor. 1,714,721; May 28.
- Mojonnier, Julius J., H. K. Phillips, Oak Park, and H. J. Clarke, Chicago, Ill., assignors to Mojonnier Bros. Co. Filling machine. 1,739,252; Dec. 10.
- Mojonnier, Oliver W., River Forest, Ill., assignor to Mojonnier Bros. Co. Weighing scale. 1,702,741; Feb. 19.
- Molan, Michael L., assignor to Purity Bakeries Service Corporation, Chicago, Ill. Display stand. 1,723,946; Aug. 6.
- Moland, William G., Philadelphia, Pa. Shoe-tree. 1,705,198; Mar. 12.
- Mölbach, Elias B., Fredrikstad, Norway. Centrifugal separator. 1,721,230; July 16.
- Molden, G. A., administrator. (See Hall, Charles B.)
- Moldenhauer, Otto A., Milwaukee, Wis. Self-locking door-control device. 1,740,951; Dec. 24.
- Moldie Co., The. (See Wills, Charles M., assignor.)
- Moler, Abraham L., Richmond, Va. Bushing. 1,701,819; Feb. 12.
- Moler, Abraham L., Richmond, Va. Apparatus for and system of lubrication circulation for journal brasses. 1,719,071; July 2.
- Moler, Abraham L., assignor of one-half to J. W. Small, Richmond, Va. Grease cellar. 1,710,101; Apr. 23.
- Molesworth, Clyde E., J. Dudman, and C. G. Zokelt, Seattle, Wash. Refrigerating apparatus. 1,703,351; Feb. 26.
- Mollard, Henry E., Hicksville, N. Y. Filing element. 1,714,517; May 28.
- Moline Implement Company. (See Boda, Joseph E., assignor.)
- Mollins Machine Company Limited. (See Ruau, Félix F., assignor.)
- Mollins, Walter E., Deptford, London, England. Wrapping machinery. 1,697,468; Jan. 1.
- Mollins, Walter E., Deptford, London, England. Severing traveling webs of material into strips. 1,700,906; Feb. 5.
- Mollins, Walter E., Deptford, London, England. Cigarette-making machinery. 1,705,224; Mar. 12.
- Mollins, Walter E., Deptford, London, England. Printing machine. 1,716,237; June 4.
- Mollins, Walter E., Deptford, London, England. Apparatus for use in fitting together boxes of the slide and shell type. 1,722,229; July 23.
- Mollins, Walter E., Deptford, London, England. Printing apparatus for cigarette-making machines. 1,723,878; Aug. 6.
- Mollins, Walter E., Deptford, London, England. Cigarette-making machinery. 1,727,299; Sept. 3.
- Mollins, Walter E., Deptford, London, England. Cigarette machinery. 1,731,723; Oct. 15.
- Mollins, Walter E., Deptford, London, England. Cigarette-making machinery. 1,733,027; Oct. 22.



- Molins, Walter E., Deptford, London, England. Moisture-proof envelope or wrapper. 1,737,055; Nov. 26.
- Molins, Walter E., Deptford, London, England. Machine for cutting a moving web into strips. 1,738,076; Dec. 3.
- Moll, Oswin C. (See McPartland, Hugh V., assignor.)
- Moll, William E., Union City, N. J. Slicer. 1,719,018; July 2.
- Möller, Adolf D. (See Matthiessen, P., and Möller.)
- Moller, John H., Charleston, W. Va., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Glass-cutting apparatus. 1,731,257; Oct. 15.
- Möller, Wilhelm, Wentorf-Reinbek B/Hamburg, and W. Kretsch, Hamburg, Germany. Preparation of solutions of hydrofluosilicic acid. 1,720,965; July 16.
- Moller, Wilhelm, Upper Darby, assignor to Front Wheel Control, Inc., Philadelphia, Pa. Antishimmying device. 1,738,147; Dec. 3.
- Möllerström, Axel H. J., Stockholm, Sweden. Device for the paring or grating of root vegetables. 1,711,120; Apr. 30.
- Molloy, James H., assignor to The Railroad Supply Company, Chicago, Ill. Auxiliary base for signal and cable posts. 1,734,594; Nov. 5.
- Molloy, Herbert L., and C. Belisle, Manchester, N. H., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Attachment for multicolor-weft-replenishing looms. 1,739,164; Dec. 10.
- Molmark, Einar, Ambridge, Pa. Electrode holder. 1,702,359; Feb. 19.
- Molnár, Charles V., Braddock, Pa. Game apparatus. 1,714,433; May 21.
- Molner, Herman, Chicago, Ill. Picture frame. Des. 79,601; Oct. 15.
- Molnar, Louis, New York, N. Y. Extension clothes drier. 1,710,468; Apr. 23.
- Molnar, Paul. (See Marr, Steven, assignor.)
- Molony, Donald P., assignor to Marvel Carburetor Company, Flint, Mich. Charge control for internal-combustion engines. 1,720,086; July 9.
- Molybdenum Corporation of America. (See Phillips, William H., assignor.)
- Molyneux, George E., Bayonne, assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for inspecting the interiors of shoes and removing tacks therefrom. 1,707,989; Apr. 9.
- Molz, Joseph, Oberhausen, Germany, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Apparatus for burning finely-divided fuel. 1,698,555; Jan. 8.
- Molz, Joseph, Oberhausen, Germany, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Pulverizer. 1,714,132; May 21.
- Mombach, Gilbert, Cincinnati, Ohio. Molding resinous condensation products. 1,724,501; Aug. 13.
- Monahan, R. H., et al. (See Auger, Joseph T., assignor.)
- Monaghan, William H. (See Callaghan, J. B., and Monaghan.)
- Monar, Fred B., Washington, D. C. Piezo-electric crystal circuits. 1,739,165; Dec. 10.
- Monarch Engineering Company, The. (See De Ville, Edward J., assignor.)
- Monarch Governor Co. (See Moyers, G. L., and Abraham, assignors.)
- Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)
- Monarch Nustbaum Paper Box Co. (See Smelzer, William E., assignor.)
- Monarch Products Company. (See Hentschel, Paul J., assignor.)
- Monckton, Philip H. P., Johannesburg, Transvaal, assignor to W. H. Cross, Johannesburg, Union of South Africa. Muffle, muffle furnace, and the like. 1,724,956; Aug. 20.
- Moncreiffe, Malcolm, Big Horn, Wyo. Mower. 1,724,300; Aug. 13.
- Monday, Tobe, St. Louis, Mo. Clutch-pedal-locking device. 1,720,915; July 16.
- Monday, Tobe, St. Louis, Mo. Gear-shift-locking and throw-out device. 1,735,542; Nov. 12.
- Monell, Arion E. (See McIntyre, Alexander B., assignor.)
- Monescross, Harry. (See Henderson, A. J., and Clifton, assignors.)
- Monette, Roseman J., New York, N. Y. Smoking pipe. 1,725,366; Aug. 20.
- Moneyron, Marcel, Paris, France. Rotary transformer. 1,734,042; Nov. 5.
- Monfraix, Paul. (See Beghin, H., and Monfraix.)
- Monheim, Richard, Berlin-Weissensee, Germany. Transformation box. 1,703,159; Feb. 26.
- Monie, James D., Scranton, Pa. Manhole casing. 1,712,510; May 14.
- Monie, James D., Scranton, Pa. Burial vault. 1,713,479; May 14.
- Monier, Francis, Neuilly-sur-Seine, France. Carburetor for internal-combustion engines. 1,720,916; July 16.
- Monighan Manufacturing Corporation. (See Jacobsen, Arthur J., assignor.)
- Monis, Jacob, assignor to R. R. Monis, New York, N. Y. Combined window sash and screen construction. 1,730,781; Oct. 8.
- Monis, Ruth R. (See Monis, Jacob, assignor.)
- Monitor Controller Company. (See Whittingham, George H., assignor.)
- Monjar, Claude M., and P. C. Monjar, Chicago, Ill. Ladder brace. 1,722,534; July 30.
- Monjar, Percy C. (See Monjar, Claude M. and P. C.)
- Monk, Nora. (See Monk, Sidney J., assignor.)
- Monk, Sidney J., assignor to N. Monk, Washington, D. C. Windshield wiper. 1,698,764; Jan. 15.
- Monk, Sidney J., assignor to N. Monk, Washington, D. C. Christmas light. 1,719,715; July 2.
- Monka, Philip. (See Naman, Nathan, assignor.)
- Monobloc Company, The. (See Turrell, Charles E., assignor.)
- Monoghan, Thomas S., Corinth, Miss., assignor of one-half to G. E. Olmsted, Danville, Ill. Dust separator and collector. 1,723,703; Aug. 6.
- Monogram Lens Corporation. (See Arbuckle, Samuel F., assignor.)
- Monogram Lens Corporation. (See Arbuckle, S. F., and Brockway, assignors.)
- Monogram Lens Corporation. (See Coulter, Guy H., assignor.)
- Monogram Shop. (See Hill, Frederick H., assignor.)
- Monolithic Form Device Company. (See Dougherty, Michael E., assignor.)
- Monorail Engineering Corporation. (See Combs, Presley S., Jr., assignor.)
- Monowatt Corporation. (See Clemence, Elliott, assignor.)
- Monroe Auto Equipment Manufacturing Company. (See Becker, Fred P., assignor.)
- Monroe Calculating Machine Company. (See Chase, George C., assignor.)
- Monroe Calculating Machine Company. (See Crosman, Loring P., assignor.)
- Monroe, Horace, Scipio, Utah. Stovepipe fastener. 1,712,048; May 7.
- Monroe, Kenneth P. (See Daudt, H. W., Parmelee, and Monroe.)
- Monroe, Lewis O., assignor to Clarage Fan Company, Kalamazoo, Mich. Fan. 1,739,604; Dec. 17.
- Monroe-Louisiana Carbon Company. (See Matlock, Chauncey, assignor.)
- Monroe, Theodore W., Brookline, Mass. Tobacco pouch. 1,733,197; Oct. 29.
- Monroe, Verne, Cameron, W. Va. Roller sheave. 1,712,478; May 7.
- Monroe, Verne, Cameron, W. Va. Sheave block and head. 1,739,368; Dec. 10.
- Monroe, William H., Colfax, Iowa. Cooling devices. 1,698,104; Jan. 8.
- Monroe, William S., Chicago, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,707,638; Apr. 2.
- Monroe-Witt Manufacturing Company. (See Witt, William A., assignor.)
- Monson, Jöns, New York, N. Y. Spinning toy. 1,699,984; Jan. 22.
- Monson, Martin B., Wheatridge, assignor to Moro Plow & Manufacturing Company, Arvada, Colo. Plow. 1,717,804; June 18.
- Montage, Charles A., and S. Adgey, Burlington, Ontario, Canada. Arm rest for automobile seats. 1,719,716; July 2.
- Montague, Charles D., New York, N. Y. Combustion method and furnace combustion chamber. 1,732,412; Oct. 22.
- Montague Range and Furnace Co. (See Troiel, Arthur E., assignor.)
- Montan, Inc. (See Coolidge, Joseph R., 3d., assignor.)
- Montania, N. V. (See Schaefer, Hanns, assignor.)
- Monteith, Charles N., and L. S. Marsh, assignors to Boeing Airplane Company, Seattle, Wash. Flare-releasing mechanism for aircraft. 1,721,883; July 23.
- Monteith, Charles N., and F. A. Walloch, assignor to Boeing Airplane Company, Seattle, Wash. Cowling pin. 1,734,526; Nov. 5.
- Monteith, Charles N., F. G. Arnold, and R. J. Minshall, Seattle, Wash., assignors to Boeing Airplane Company. Airplane emergency flotation gear. 1,733,973; Oct. 29.
- Monteith, John C. (See Beaumont, G. H., and Monteith.)
- Monteleone, Joseph, et al. (See Hultman, Edgar W., assignor.)
- Montellus, Carl O. J., Stockholm, Sweden. Device for transferring energy to or from a fluid. 1,698,802; Jan. 15.
- Montelius, Carl O. J., Stockholm, Sweden. Rotary engine for compressible or expansive mediums. 1,708,891; Apr. 9.
- Montgomery, Beauchamp H., Toronto, Ontario, Canada. Hose reel. 1,726,084; Aug. 27.
- Montgomery, Bradley B., Lancaster, Ky. Tonsillotome. 1,699,801; Jan. 22.
- Montgomery, Eben, Waco, Tex. Pest exterminator. 1,721,869; July 23.
- Montgomery, Gustavus A., Titusville, Pa. Bed for vehicles. 1,714,613; May 28.
- Montgomery, Harvey H., Sauk City, Wis. Antifrost device for windshields. 1,740,193; Dec. 17.
- Montgomery, Henry S. (See Merrill, J. C., and Montgomery.)
- Montgomery, John H., Omaha, Nebr. Dishwashing machine. 1,741,329; Dec. 31.
- Montgomery, Ralph S., San Francisco, Calif. Garment. 1,703,744; Feb. 26.
- Montgomery, Robert J., Chicago, Ill. Wire-stripping tool. 1,730,980; Oct. 8.
- Montgomery, Robert L., Irondale, Mo. Cooking stove. 1,719,717; July 2.
- Montgomery, Samuel A. (See Payne, E. H., and Montgomery.)
- Montgomery, Walter H., Lewistown, Pa. Metal-tapering machine. 1,725,594; Aug. 20.



- Montgomery Ward & Co. (See Tedell, John, assignor.)  
 Montgomery, Wellington S., El Dorado, Kans. Adjustable oil outlet. 1,723,197; Aug. 6.  
 Montgomery, William L., San Francisco, Calif. Garment hanger. 1,730,620; Oct. 8.  
 Montigny, Louis, Ghent, Belgium. Belt fastener. 1,737,167; Nov. 26.  
 Montreuil, Frank H., deceased; Straus Trust Company, executor, Chicago, Ill., assignor by mesne assignments, to Strauss National Bank and Trust Company of Chicago, trustee. Thrust bearing. 1,728,434; Sept. 17.  
 Montstream, John H. (See Brown, R. S., and Montstream.)  
 Montuori, Felix C., Washington, D. C. Backing for interchangeable teeth. 1,722,334; July 30.  
 Monument, George A., assignor of one-third to A. E. Wilson and one-third to H. C. Hoops, Toronto, Ontario, Canada. Combined primer and lubricator for gasoline engines. 1,739,728; Dec. 17.  
 Mood, George McF., Charleston, S. C. Poultry carrier. 1,731,824; Oct. 15.  
 Moody, Dwight O. (See Wetzel, William H., assignor.)  
 Moody, Ernest J. (See Mattinson, J. E., and Moody.)  
 Moody, Earnest L., Wichita Falls, Tex. Safety device for submarines. 1,733,385; Dec. 3.  
 Moody, Julius C., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Valve. 1,705,941; Mar. 19.  
 Moody, Julius C., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Valve. 1,705,942; Mar. 19.  
 Moody, Lewis F., Philadelphia, Pa. Impulse turbine. 1,700,725; Jan. 29.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,703,081; Feb. 19.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,709,994; Apr. 23.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic draft tube. 1,713,775; May 21.  
 Moody, Lewis F., Philadelphia, Pa. Impulse turbine. 1,713,977; May 21.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic machine. 1,716,077; June 4.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,716,078; June 4.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic power plant. 1,722,438; July 30.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic valve. 1,727,517; Sept. 10.  
 Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine. 1,728,435; Sept. 17.  
 Moody, Lewis F., Philadelphia, Pa. Runner blading and forming the same. 1,733,671; Oct. 29.  
 Moody, Lewis F., Philadelphia, Pa. Runner for turbines. 1,741,787; Dec. 31.  
 Moody, William O., La Grange, and L. J. Brown, Evanston, assignors to E. P. Smith, Springfield, Ill. Brake-hanger support. 1,739,253; Dec. 10.  
 Moody, Wm. L., III, et al. (See Smith, Harvey S., assignor.)  
 Mooers, Edward P., Watertown, Mass. Valve seat for internal-combustion engines. 1,724,036; Aug. 13.  
 Mooers, Louis P., assignor to The Columbia Axle Company, Cleveland, Ohio. Brake mechanism. 1,705,529; Mar. 19.  
 Mooney, Charles S., Carlisle, Pa. Method of and apparatus for producing inner tubes or other articles. 1,740,029; Dec. 17.  
 Moon, Charles R., assignor to Ontario Silver Company, Muncie, Ind. Feed and discharge mechanism for presses. 1,726,577; Sept. 3.  
 Moon, Clifford G., Anthony, R. I. Feeler mechanism for looms. 1,717,165; June 11.  
 Moon, John W., assignor to Fretz-Moon Tube Company, Butler, Pa. Apparatus for producing continuous tubing. 1,700,508; Jan. 29.  
 Moon, Lewis P., Philadelphia, Pa. Frying pan. 1,707,532; Apr. 2.  
 Moon, Morris R., Portland, Oreg. Compressed-fluid generator. 1,713,709; May 21.  
 Moon, Sampson W., Chicago, Ill. Electric safety razor. 1,707,445; Apr. 2.  
 Moon, Sampson W., Chicago, Ill. Electric safety razor. 1,738,537; Dec. 10.  
 Moon, Sampson W., Chicago, Ill. Electric vibratory device. 1,738,538; Dec. 10.  
 Moone, Albert E. F., Chicago, Ill., assignor to The Lehon Company. Grouping machine. 1,698,765; Jan. 15.  
 Mooney, Althea S., Moscow, Idaho. Educational device. 1,732,980; Oct. 22.  
 Mooney, Daniel A., Philadelphia, and O. Jaeger, Elkins Park, assignors to W. Wright, Jenkintown, Pa. Clothes wringer. 1,706,247; Mar. 19.  
 Mooney, Edward L., assignor to Cosby-Wirth Manifold Book Company, Minneapolis, Minn. Sales-book cover. 1,698,766; Jan. 15.  
 Mooney, Ernest, York, England. Lubricating device for railway-vehicle axles. 1,708,025; Apr. 9.  
 Mooney, Frances J., Philadelphia, Pa. Clothes hanger. 1,740,899; Dec. 24.  
 Mooney, Frank H., Chicago, Ill. Golf bag. 1,715,668; June 4.  
 Mooney, Leonard V., Astoria, N. Y. Display device. 1,718,429; June 25.  
 Mooney, Richard E., Jr., assignor to The American Calendar Co., Inc., Greenville, Tenn. Advertising sign or the like. Des. 79,094; July 30.  
 Mooneyhan, Sam, assignor of sixty per cent to A. L. Burge, Port Arthur, Tex. Heat-dissipating means for electrodes. 1,720,186; July 9.  
 Moore, Alvin, Lancaster, Ohio. Shade hanger. 1,708,733; Apr. 9.  
 Moore, Andrew D. (See Matthies, William H., assignor.)  
 Moore, Arlington, Boston, Mass., assignor to Clarke-Moore Corporation, Wilmington, Del. Paper container. 1,700,742; Feb. 5.  
 Moore, Arlington, assignor to Moore Inventions Corporation, Worcester, Mass. Gasketed side closure for milk bottles, glass jars, and the like. 1,700,743; Feb. 5.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Interior agitator for internal-combustion engines. 1,701,537; Feb. 12.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. High-turbulence power chamber for internal-combustion engines. 1,701,538; Feb. 12.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Interior agitator for internal-combustion engines with removable cylinder heads. 1,703,202; Feb. 26.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Antidetonation combustion chamber for internal-combustion engines. 1,708,425; Apr. 9.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Antidetonating piston head for internal-combustion engine. 1,708,426; Apr. 9.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Antidetonation combustion chamber for internal-combustion engines. 1,708,427; Apr. 9.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Turbulence-producing combustion chamber for internal-combustion engines. 1,798,428; Apr. 9.  
 Moore, Arlington, assignor to Moore Inventions Corporation, Worcester, Mass. Arched gasket closure. 1,711,176; Apr. 30.  
 Moore, Arlington, assignor, by mesne assignments, to Maxmoor Corporation, New York, N. Y. Antidetonation combustion chamber for internal-combustion engines with plural projections. 1,717,578; June 18.  
 Moore, Arlington, assignor to Moore Inventions Corporation, Worcester, Mass. Packing for fragile articles. 1,725,291; Aug. 20.  
 Moore, Austin L., Uniontown, assignor to Eureka Fire Brick Works, Pittsburgh, Pa. Die structure for the manufacture of hot tops. 1,698,603; Jan. 8.  
 Moore, Benjamin S., Detroit, Mich. Rim lock. 1,698,960; Jan. 15.  
 Moore, Benjamin S., Detroit, Mich. Rim lock. 1,701,306; Feb. 5.  
 Moore Brothers Company. (See De Wit, Leonard, assignor.)  
 Moore Bros. Company. (See Lurcott, Winfred N., assignor.)  
 Moore, Carl E., Gary, Ind., assignor to American Sheet and Tin Plate Company. Feed-roller mechanism. 1,740,366; Dec. 17.  
 Moore, Charles A., St. Paul, Minn. Air-conditioning appliance. 1,705,531; Mar. 19.  
 Moore, Charles A., Edina, Minn. Ventilating system for refrigerator cars. 1,712,710; May 14.  
 Moore, Charles A., Edina, Minn. Refrigerating and air-circulating means for storage rooms. 1,713,776; May 21.  
 Moore, Charles A., Edina, Minn. Refrigerating appliance for precooling, cold storage and like rooms. 1,722,817; July 30.  
 Moore, Charles A., Edina, Minn. Air-conditioning appliance. 1,731,432; Oct. 15.  
 Moore, Charles A., Edina, Minn. Heating, humidifying, and ventilating apparatus. 1,735,085; Nov. 12.  
 Moore, Charles A., Edina, Minn. Ventilating and refrigerating apparatus. 1,741,580; Dec. 31.  
 Moore, Charles E., San Francisco, Calif. Feed-screw limit gauge for lathes. 1,721,524; July 23.  
 Moore, Charles R. (See Bennett, A. F., and Moore.)  
 Moore, Charles R., Elmira, N. Y. Vapor or steam generator. 1,725,408; Aug. 20.  
 Moore, Charles W., New York, N. Y. Self-testing seal. 1,702,976; Feb. 19.  
 Moore, Charlie B., and J. H. Sybert, Altoona, Pa. Device for shipping automobiles. 1,708,231; Apr. 9.  
 Moore, Clarence C., Wakarusa, Ind. Combined rack and clothes drier. 1,736,717; Nov. 19.  
 Moore, David P., Avon Park, Fla. Fish lure. 1,710,102; Apr. 23.  
 Moore, Donald L., St. Anthony, Newfoundland. Container for nursing bottles. 1,706,034; Mar. 19.  
 Moore Dry Kiln Company. (See Creighton, F. M., and Gray, assignors.)  
 Moore, Edward H., Villa Park, Ill., assignor to Cutler-Hammer, Inc. Rheostat. 1,728,186; Sept. 17.  
 Moore, Edward J., and R. H., assignors, by mesne assignments, to The Rotor Air Tool Company, Cleveland, Ohio. Fluid-pressure motor. 1,735,176; Nov. 12.  
 Moore, Edwin B. See McArthur, A. R., and Moore.)  
 Moore, Everett L., Los Angeles, Calif. Faucet. Des. 80,084; Dec. 10.  
 Moore Fabric Company. (See Moore, John V., assignor.)



- Moore, Fennel C. J., Bethlehem, Pa., assignor to Bethlehem Shipbuilding Corporation. Method and apparatus for extinguishing fires. 1,727,111; Sept. 3.
- Moore, Frank P., East St. Louis, Ill. Sewing-machine attachment. 1,723,198; Aug. 6.
- Moore, Frank R., Upper Darby, Pa. Grinding head or attachment. 1,717,995; June 18.
- Moore, Frank W. (See Harty, W. A., and Moore.)
- Moore, Fred H., Kansas City, Mo. Surface heater. 1,712,629; May 14.
- Moore, Fred M., Oakland, Calif., assignor to Economy Oil Slot Piston Company, Reno, Nev. Piston. 1,733,618; Oct. 29.
- Moore, Frederick T. (See Pfeiffer, C. and Moore.)
- Moore, Frederick T., East Hartford, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Barrel mounting for firearms. 1,738,500; Dec. 3.
- Moore, Frederick T., East Hartford, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Gas-operated automatic firearm. 1,738,501; Dec. 3.
- Moore, Frederick T., East Hartford, and C. Pfeiffer, assignors to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Gun mount. 1,708,232; Apr. 9.
- Moore, Frederick W., East Orange, N. J. Pile-faced material and making the same. 1,739,322; Dec. 10.
- Moore, George C., Company. (See Moore, Thomas F., assignor.)
- Moore, George E., assignor, by mesne assignments, to Shaw Crane-Putnam Machine Co. Inc., Muskegon, Mich. Turntable crane for electrolytic refineries. 1,697,538; Jan. 1.
- Moore, George E., Muskegon Heights, assignor, by mesne assignments, to Shaw-Crane-Putnam Machine Co., Inc., Muskegon, Mich. Crane. 1,729,891; Oct. 1.
- Moore, George H., Boston, Mass. Temporary binder. 1,721,829; July 23.
- Moore, George L., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Distributing heavy lubricants. 1,714,184; May 21.
- Moore, George L., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Making lubricant nipples. 1,716,500; June 11.
- Moore, George L. and J. R. Steele, Owego, N. Y. Rail anchor. 1,720,087; July 9.
- Moore, George L. and J. R. Steele, Owego, N. Y. Rail anchor. 1,720,088; July 9.
- Moore, Giles S. (See Henry A. L., and Moore.)
- Moore, Harold J., Middletown, Conn. Buffer for cleaning and similar tools. 1,740,474; Dec. 24.
- Moore, Harry E., Smithfield, Nebr. Animal poke. 1,718,062; June 18.
- Moore, Harvie L., Ettricks, Va. Sound regulator. 1,708,844; Apr. 9.
- Moore, Henry A. (See Stuart, T. F., and Moore.)
- Moore, Hildur S., St. Paul, Minn. Candy doll. Des. 79,894; Nov. 12.
- Moore, Homer L., Detroit, Mich. Cushion device for tools and the like. 1,710,180; Apr. 23.
- Moore, Hugh, assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Paper-cup and cup-dispenser shipping package. 1,706,248; Mar. 19.
- Moore, Hugh, assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Cup dispenser. 1,741,474; Dec. 31.
- Moore, Hugh, assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Dispensing device. 1,741,475; Dec. 31.
- Moore, Hugh K. (See Burningham, F. A., and Moore.)
- Moore Inventions Corporation. (See Moore, Arlington, assignor.)
- Moore, James W. (See Moore, W. D., Barr, Moore, and Wilson.)
- Moore, John C., Jr., Caldwell, N. J. Coaster. 1,697,994; Jan. 8.
- Moore, John C., Connersville, Ind. Gasifier. 1,723,056; Aug. 6.
- Moore, John C., assignor to Lincoln Manufacturing Company, Connersville, Ind. Auxiliary transmission. 1,708,368; Apr. 9.
- Moore, John E. (See Wilson, R. E., Moore, and Chenicek.)
- Moore, John E., Reno, Nev. Curtain support. 1,703,013; Feb. 19.
- Moore, John E., Southport, England. Knitting machine. 1,704,804; Mar. 12.
- Moore, John M., New York, N. Y. Day and night license for motor vehicles. 1,697,657; Jan. 1.
- Moore, John T., and J. H. Hollingsworth, Boothpoint, assignors of one-third to J. T. Freeman, Finley, Tenn. Stalk-cutter attachment. 1,709,679; Apr. 16.
- Moore, John V., assignor to Moore-Fabric Company, Pawtucket, R. I. One-piece semisoft collar. 1,721,404; July 16.
- Moore, John V., assignor to Moore Fabric Company, Pawtucket, R. I. Semisoft collar and fabric therefor. 1,739,912; Dec. 17.
- Moore, Joseph C. F., Sioux City, Iowa. Roaster. 1,700,614; Jan. 29.
- Moore, Joseph W., Runcorn, and W. G. Polack, Frodsham, assignors to Imperial Chemical Industries Limited, London, England. Manufacture of ammonium-chloride crystals. 1,725,292; Aug. 20.
- Moore, K. M. (See Baker, Elmer S., assignor.)
- Moore and Kling, Inc. (See Kling, Elmer M., assignor.)
- Moore, Lawrence G., Washington, D. C., and F. D. Pelot, Norfolk, Va., assignors to Hotel Folder Distributing Corporation, Washington, D. C. Advertising rack. 1,737,939; Dec. 3.
- Moore, Lou Q., Kansas City, Mo. Seal. 1,724,359; Aug. 13.
- Moore, Luther M., Walla Walla, Wash. Tug hook. 1,702,087; Feb. 12.
- Moore, MacCormick G., Wyomissing, assignor to Moore & Moore, Inc., Reading, Pa. Track-belt link. 1,713,614; May 21.
- Moore, Matthew S. (See Black, William C., assignor.)
- Moore, Melville M., New Orleans, La. Store system. 1,720,917; July 16.
- Moore, Michael E., assignor, by mesne assignments, to Kewanee Boiler Corporation, Kewanee, Ill. Boiler. 1,702,545; Feb. 19.
- Moore, Milo S. (See Gray, C. W., Burdick, Moore, and Sandifur.)
- Moore, Milton M., Altadena, assignor, by mesne assignments, to M. A. Sherfie, Los Angeles, Calif. Signal. 1,717,617; June 18.
- Moore & Moore, Inc. (See Moore, MacCormick G., assignor.)
- Moore, Montford M., assignor to The M. Moore Shirt Factories Co., Canton, Ohio. Shirt. 1,732,062; Oct. 15.
- Moore, Orville O., Hartley, Iowa. Fishhook carrier and spacer. 1,720,287; July 9.
- Moore, Oscar W., assignor to The Norlipp Company, Chicago, Ill. Combined cigarette dispenser and humidor. Des. 78,305; Apr. 16.
- Moore, Oscar W., assignor to The Norlipp Company, Chicago, Ill. Cigarette dispenser and humidor. 1,703,352; Feb. 26.
- Moore, Patrick J., Butte, Mont. Shears. 1,713,393; May 14.
- Moore, Patrick J., Butte, Mont. Portable electric tool-driving machine. 1,713,444; May 14.
- Moore, Paul, et al., trustees. (See Hartzell, A., and Lathrop, assignors.)
- Moore Press, Inc., The. (See Yadon, Marshall E., assignor.)
- Moore Push-Pin Company. (See Mills, William P., assignor.)
- Moore, Ralph S., Visalia, Calif. Lighting system for vehicles. 1,698,767; Jan. 15.
- Moore, Ralph S., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Protecting furnace brickwork. 1,727,482; Sept. 10.
- Moore, Ralph S., Little Neck, assignor to H. B. Kruger, New York, N. Y. Display device. 1,735,009; Nov. 12.
- Moore, Raymond G., Bridgeport, Conn., assignor to Alemite Manufacturing Corporation Chicago Ill. Lubricating system. 1,700,509; Jan. 29.
- Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Latch. 1,721,162; July 16.
- Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Latch. 1,723,801; Aug. 6.
- Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Latch. 1,723,802; Aug. 6.
- Moore, Raymond G., assignor to The Bassick Company, Bridgeport, Conn. Latch. 1,723,803; Aug. 6.
- Moore, Raymond H. (See Beetham, M. F., and Moore.)
- Moore, Raymond H. (See Moore, Edward J. and R. H.)
- Moore, Raymond H., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y. Sand-blast tank and filling valve. 1,706,737; Mar. 26.
- Moore, Richard D., Birmingham, Ala. Automatic accelerator. 1,719,718; July 2.
- Moore, Robert A., assignor to Multiple Selling Corporation, New York, N. Y. Safety lamp lock. 1,710,373; Apr. 23.
- Moore, Robert H., New York, N. Y. Bookmark. 1,710,062; Apr. 23.
- Moore, Roscoe, assignor to Vulcan Iron Works, Wilkes-Barre, Pa. Floating-lever brake engine. 1,698,604; Jan. 8.
- Moore, Roscoe, assignor to Vulcan Iron Works, Wilkes-Barre, Pa. Braking engine. 1,733,898; Oct. 29.
- Moore, Roy S., Chicago, Ill., assignor, by mesne assignments, to Manitowoc Ship Building Corporation, Manitowoc, Wis. Steering mechanism for locomotive cranes. 1,721,667; July 23.
- Moore, Samuel, assignor of one-half to G. Mangione, twenty per cent to B. T. Wise, eight per cent to B. A. Bailey, and eleven per cent to J. D. Merida, Cleveland, Ohio. Hobbyhorse. 1,705,991; Mar. 19.
- Moore, Stephen A., Roanoke, Va. Gate structure. 1,711,394; Apr. 30.
- Moore, Stewart L., Jr., assignor to Locke Insulator Corporation, Baltimore, Md. Hole-cutting machine. 1,697,434; Jan. 1.
- Moore, Stewart L., Jr., assignor to Locke Insulator Corporation, Baltimore, Md. Hole-cutting machine. 1,697,435; Jan. 1.
- Moore, Stewart L., Jr., Victor, N. Y., assignor to Locke Insulator Corporation, Baltimore, Md. Making insulators. 1,717,996; June 18.
- Moore, Stewart L., Jr., assignor to Locke Insulator Corporation, Baltimore, Md. Method of and apparatus for assembling insulators. 1,719,989; July 9.
- Moore, Stuart B., La Porte, Tex. Road structure. 1,704,900; Mar. 12.
- Moore, Stuart B., Temple, Tex. Concrete culvert. 1,734,392; Nov. 5.
- Moore, Thomas C. (See Coffield, W. M., and Moore.)



- Moore, Thomas C., assignor to Mor-Pak Preserving Corporation, Fresno, Calif. Preserving fruit. 1,704,367; Mar. 5.
- Moore, Thomas C., assignor to Mor-Pak Preserving Corporation, Fresno, Calif. Fruit-perforating machine. 1,735,406; Nov. 12.
- Moore, Thomas F., Morris Plains, N. J. Well point. 1,729,790; Oct. 1.
- Moore, Thomas F., assignor to George C. Moore Company, Westerly, R. I. Elastic woven fabric. 1,707,956; Apr. 2.
- Moore, Thomas O., Solomonville, Ariz. Illuminating device. 1,707,171; Mar. 26.
- Moore, Wallace F., Meriden, and B. J. Storer, New Britain, assignors to The American Hardware Corporation, New Britain, Conn. Holdback device and door closer. 1,728,693; Sept. 17.
- Moore, Walter H., Santa Barbara, Calif. Valve lock. 1,699,905; Jan. 22.
- Moore, Warren, Media, Pa. Fumigant. 1,702,168; Feb. 12.
- Moore, Warren, New Brunswick, and H. E. Buc, Roselle, N. J., assignors to Standard Oil Development Company. Insect repellent. 1,727,305; Sept. 3.
- Moore, Wesley W., Olney, Tex. Self-lubricating rod-line carrier. 1,712,006; May 7.
- Moore, William A. (See Black, C. O., and Moore.)
- Moore, William A., Lakota, Iowa. Ridge-roll ventilator. 1,717,728; June 18.
- Moore, William A., Sauk Center, Minn. Minnow pall. 1,742,046; Dec. 31.
- Moore, William D. (See Barr, C. D., and Moore.)
- Moore, William D., Portsmouth, Ohio. Arch support. 1,731,106; Oct. 8.
- Moore, William D., assignor to American Cast Iron Pipe Co., Birmingham, Ala. Hot-blast cupola. 1,740,900; Dec. 24.
- Moore, William D., C. D. Barr, J. W. Moore, and W. J. Wilson, Birmingham, Ala., assignors to Sand Spun Patents Corporation, Wilmington, Del. Magnetic clutch. 1,735,648; Nov. 12.
- Moore, William E., Pittsburgh, Pa. Electric furnace. 1,718,172; June 18.
- Moore, William M., Philadelphia, Pa. Stand. Des. 80,243; Dec. 31.
- Moore, William O. B., Winnipeg, Manitoba, Canada. Automobile attachment. 1,706,495; Mar. 26.
- Moore, William R., jr., Hagerstown, Md., assignor to Deca-Disc Phonograph Company, Waynesboro, Pa. Automatic circuit breaker. 1,719,517; July 2.
- Moorhead, Albert E., Oakland, Calif. Speed indicating and recording apparatus. 1,725,204; Aug. 20.
- Moorhead, Albert E., assignor of one-fourth to R. Dalziel, jr., Oakland, Calif. Toy. 1,697,995; Jan. 8.
- Moorehead, George F., Des Moines, Iowa. Refrigerator show case. 1,712,896; May 14.
- Morehead, James C., assignor, by mesne assignments, to Inland-Stuart Linings, Inc., Pittsburgh, Pa. Brick shape for building blast-furnace linings and the like. 1,740,258; Dec. 17.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,698,060; Jan. 8.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,701,584; Feb. 12.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle braking mechanism. 1,701,585; Feb. 12.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Brake for transmission. 1,701,586; Feb. 12.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle license holder. 1,708,702; Apr. 9.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,708,703; Apr. 9.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,712,457; May 7.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,712,458; May 7.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,712,459; May 7.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,722,335; July 30.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle brake. 1,722,336; July 30.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,723,947; Aug. 6.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,727,999; Sept. 10.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Instrument board. 1,728,000; Sept. 10.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,734,266; Nov. 5.
- Moorhouse, Alfred, assignor to Packard Motor Car Co., Detroit, Mich. Internal-combustion engine. 1,734,267; Nov. 5.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Propeller shaft and making. 1,734,268; Nov. 5.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,736,718; Nov. 19.
- Moorhouse, Alfred, and S. G. Bowman, Pittsburgh, Pa. Pipe organ. 1,716,651; June 11.
- Morehouse, Eugene. (See Ballou, F. A., jr., and Morehouse.)
- Morehouse, Lyman F., Montclair, N. J., and E. F. Watson, Larchmont, N. Y., assignors to American Telephone and Telegraph Company. Signaling system. 1,737,668; Dec. 3.
- Moorman Mfg. Co. (See Ireland, Joseph W., assignors.)
- Moorsalian, Devlet, Visalia, Calif. Wall construction. 1,727,662; Sept. 10.
- Moorshead, Thomas C., Strand, London, assignor to The United Glass Bottle Manufacturers, Limited, London, England. Glass furnace. 1,716,456; June 11.
- Moos, Paul, Zug, Switzerland, assignor to Landis & Gyr A.-G. Induction meter. 1,739,166; Dec. 10.
- Mooser Lighting Fixture Manufacturing Company. (See Mooser, William, assignor.)
- Mooser, William, assignor to Mooser Lighting Fixture Manufacturing Company, Louisville, Ky. Lighting fixture. 1,718,755; June 25.
- Morael, Georges H., St. Petersburg, Fla. Assembler-chute buffer. 1,697,128; Jan. 1.
- Morales, Raymond, San Francisco, Calif. Automobile ash tray. 1,715,773; June 4.
- Morali, Charles, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 78,402; Apr. 30.
- Morali, Charles, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 78,403; Apr. 30.
- Morali, Charles, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 79,399; Sept. 10.
- Morali, Charles, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 79,400; Sept. 10.
- Moran, Brian T., New York, N. Y. Pocket coin bank. 1,700,986; Feb. 5.
- Moran, Brian T., New York, N. Y., Savings bank. 1,700,987; Feb. 5.
- Moran, Brian T., New York, N. Y. Savings bank. 1,700,988; Feb. 5.
- Moran, Charles B., Swissvale, Pa. Method and apparatus for separating sheets. 1,702,126; Feb. 12.
- Moran, Eugene, Fort Ripley, Minn. Combination quilting, crochet, and handwork frame. 1,724,215; Aug. 13.
- Moran, Henry, Barnes Common, London, England. Power-transmission mechanism comprising variable-speed gearing. 1,706,738; Mar. 26.
- Moran, Henry, London, England. Power-transmission mechanism comprising variable-speed gearing. 1,706,739; Mar. 26.
- Moran, James E., Waterbury, Conn. Bedstead book holder. 1,699,853; Jan. 22.
- Moran, Joseph F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,717,397; June 18.
- Moran, Myles F., Lynn, Mass. Pipe wrench. 1,722,384; July 30.
- Moran, Samuel J., assignor of one-half to R. L. Bell, Los Angeles, Calif. Automobile braking device. 1,720,340; July 9.
- Moran, Stephen F., assignor of one-third to J. C. Hover and one-third to P. S. Hopkins, Binghamton, N. Y. Arch support. 1,702,661; Feb. 19.
- Moranor, Joseph S., Castleton, N. Y. Indicating apparatus. 1,733,817; Oct. 29.
- Moraschi, Fortunato N. (See Maiuri, G., and Moraschi.)
- Moratta, Matthew M., Princeton, Ind. Piston-ring construction. 1,735,291; Nov. 12.
- Moratz, Ernst, Frohnau, near Berlin, Germany. Drawing board. 1,735,292; Nov. 12.
- Morava, Wensel, Chicago, Ill. Cotton-picking machine. 1,731,825; Oct. 15.
- Morava, Wensel, Chicago, Ill. Cotton-picking machine. 1,731,826; Oct. 15.
- Moravec, Joseph E., Cleveland, Ohio. Lubricating mechanism for rotary valves. 1,699,852; Jan. 22.
- Moray, Virgil W., New York, N. Y. Piston ring. 1,737,168; Nov. 26.
- Morch, John, Altoona, Pa. Flexible drive for electric locomotives. 1,733,068; Oct. 22.
- Mordey, William M., London, England. Electromagnetic separation or concentration of minerals. 1,729,589; Sept. 24.
- More, Luther, Seattle, Wash. Measuring device for football games. 1,717,805; June 18.
- Morehead, French H. (See Langenberg, Frederick C., assignor.)
- Morehead, French H., Boston, assignor of one-half to F. C. Langenberg, Watertown, Mass. Machine for making castings. 1,715,421; June 4.
- Morehead, French H., Boston, assignor of one-half to F. C. Langenberg, Watertown, Mass. Vented mold for castings. 1,729,005; Sept. 24.
- Morehouse, Eugene, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Safety catch. 1,737,382; Nov. 26.
- Morel, Cornelis H. (See Bol, C., and Morel.)
- Moreland, Lester A. (See Thropp, P. D., and Moreland.)
- Moreland Motor Truck Company. (See Moreland, Watt L., assignor.)
- Moreland, Stephen T., Alton, Ill. Shearing device. 1,707,408; Apr. 2.



- Moreland, Watt L., Los Angeles, assignor of one-half to Moreland Motor Truck Company, Burbank, Calif. Motor vehicle. 1,704,301; Mar. 5.
- Morelock, Edward W. R. (See Plummer, Bert H., assignor.)
- Moretti, Whitfield, Montague, assignor to Millers Falls Company, Millers Falls, Mass. Electric tool. 1,702,742; Feb. 19.
- Moretto, Bernardino, Westville, Ill. Chest of drawers. Des. 79,095; July 30.
- Moreux, Gustave C., assignor to Société en Nom Collectif G. Moreux & Cie., Levallois-Perret, France. Radiator construction. 1,727,780; Sept. 10.
- Morey, Carl, Big Rapids, Mich. Curvature-control mechanism for metal-forming machines. 1,728,246; Sept. 17.
- Morey, Harry J., assignor to Pass & Seymour, Incorporated, Syracuse, N. Y. Duplex flush receptacle. 1,729,678; Oct. 1.
- Morey, Harry J., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Pull socket. 1,719,559; July 2.
- Morey, Harry J., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Electrical fixture construction. 1,735,260; Nov. 12.
- Morey, Harry J., assignor to Pass & Seymour, Incorporated, Syracuse, N. Y. Single flush receptacle. 1,736,831; Nov. 26.
- Morgan, Andrew J., Framingham, Mass. Sheave. 1,731,587; Oct. 15.
- Morgan, Annette S., executrix. (See Morgan, William H., sr.)
- Morgan, Blodgett, Morgan, Inc. (See Morgan, Porter S., assignor.)
- Morgan, Charles C., Cambridge, Ohio. Bit gauge. 1,730,086; Oct. 1.
- Morgan, Charles L., Pittsburgh, Pa. Detachable sash. 1,734,301; Nov. 5.
- Morgan, Charles W., Chicago, Ill. Game board. Des. 79,976; Nov. 26.
- Morgan, Chester A., San Bernardino, Calif. Garden implement. 1,699,154; Jan. 15.
- Morgan, Chester N., Los Angeles, Calif. Reading rest. 1,719,190; July 2.
- Morgan, Clarence S., Detroit, Mich. Insulation for heating elements. 1,715,941; June 4.
- Morgan, Clarence S., Detroit, Mich. Forming insulating coverings for pipe joints. 1,715,942; June 4.
- Morgan Construction Company. (See Crosby, Fred B., assignor.)
- Morgan Construction Company. (See Dahlstrom, Frank P., assignor.)
- Morgan Construction Company. (See George, Jerome R., assignor.)
- Morgan Construction Company. (See George, J. R., and Quinn, assignors.)
- Morgan Construction Company. (See Isley, George H., assignor.)
- Morgan Construction Company. (See Lummis, Charles W., assignor.)
- Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radial-flow condenser. 1,710,707; Apr. 30.
- Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Scoop condenser. 1,721,277; July 16.
- Morgan, Donald C., Indianapolis, Ind., assignor, by mesne assignments, to F. W. Sommers. Coin-controlled lock. 1,708,319; Apr. 9.
- Morgan, Earl D., Los Angeles, Calif. Tent. 1,728,356; Sept. 17.
- Morgan, Edmund C., deceased, Chicago; Olive E. Morgan, executrix. Apparatus for mining coil. 1,735,583; Nov. 12.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and mining apparatus. 1,704,866; Mar. 12.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading machine. 1,704,918; Mar. 12.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Apparatus for mining coal. 1,706,961; Mar. 26.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining machine. 1,706,962; Mar. 26.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Combined coal mining and loading machine. 1,707,133; Mar. 26.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Coal-mining apparatus. 1,710,486; Apr. 23.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Long-wall mining and loading machine. 1,710,801; Apr. 30.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining machine. 1,710,887; Apr. 30.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Longwall mining and loading machine. 1,711,280; Apr. 30.
- Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining machine. 1,712,511; May 14.
- Morgan, Edmund C., deceased, Richmond Hill, New York, N. Y.; O. E. Morgan, executrix. Mining machine. 1,707,132; Mar. 26.
- Morgan, Edmund C., deceased, Richmond Hill, New York, N. Y.; O. E. Morgan, executrix. Loading machine. 1,729,177; Sept. 24.
- Morgan, Edward M., Festmount, Quebec, Canada. Beater for eggs, cream, and the like. 1,712,156; May 7.
- Morgan-Evans, Mary, Roundup, Mont. Baby garment. 1,730,454; Oct. 8.
- Morgan, Guy. (See Utz, J. G., and Morgan.)
- Morgan, Henry W., Rochester, N. Y. Nailing machine. 1,741,135; Dec. 24.
- Morgan, Hugh D., Youngstown, Ohio. Artificial denture and making the same. 1,714,185; May 21.
- Morgan Hurrycane Company. (See Morgan, William H., sr., assignor.)
- Morgan, James A., Nambour, Queensland, Australia. Exhaust silencer for internal-combustion engines. 1,698,198; Jan. 8.
- Morgan, John D., Maplewood, N. J., assignor to Doherty Research Company, New York, N. Y. Bonded refractory. 1,734,595; Nov. 5.
- Morgan, John J., assignor of one-half to C. Vogel, Columbus, Ohio. Concrete structure. 1,729,118; Sept. 24.
- Morgan, John L., assignor to J. Satenstein, Camden, N. J. Tying device. 1,735,691; Nov. 12.
- Morgan, John R. (See Jandus, H. S., and Morgan.)
- Morgan, Joseph J., W. E. Dickinson, and W. J. Bitterlick, New Haven, Conn. Direct drive for railway axle lighting equipment. 1,724,502; Aug. 13.
- Morgan, Mary, and C. H. Hammer, Lima, Ohio. Device for inserting pillows in slips. 1,712,711; May 14.
- Morgan, Merton W., assignor to Poole Engineering and Machine Company, Baltimore, Md. Flexible coupling. 1,740,617; Dec. 24.
- Morgan, Olive E., executrix. (See Morgan, Edmund C., assignor.)
- Morgan, Olive E., executrix. (See Morgan, Edmund C., assignor.)
- Morgan, Oliver, and J. W. Stark, Wewoka, Okla. Valve for oil-distributing systems. 1,732,107; Oct. 15.
- Morgan, Oliver, and J. W. Stark, Wewoka, Okla. Oil-distributing system. 1,736,933; Nov. 26.
- Morgan, Oren B., assignor to Novo Engine Company, Lansing, Mich. Cover for hopper-cooled engines. 1,723,365; Aug. 6.
- Morgan, Orrville S., Baldwin, Kans. Notebook divider. 1,741,066; Dec. 24.
- Morgan, Philip. (See Holden, A. P., and Morgan.)
- Morgan Porter S., Darien, Conn., assignor to Morgan, Blodgett, Morgan, Inc., New York, N. Y. Shock absorber. 1,704,258; Mar. 5.
- Morgan, Raymond R. (See Wells, G. F., and Morgan.)
- Morgan, S., Smith Company. (See Popp, Harry E., assignor.)
- Morgan, Swiney, assignor to Eureka Steel Range Company, O'Fallon, Ill. Stove or range. 1,723,704; Aug. 6.
- Morgan, William H., jr. (See Morgan, William H., sr., assignor.)
- Morgan, William H., sr., deceased, by A. S. Morgan, executrix, Alliance, Ohio, assignor to Morgan Hurrycane Company, New York, N. Y. Apparatus for disintegrating sugar cane. Re17,513; Dec. 3.
- Morgan, William H., sr., assignor to W. H. Morgan, jr., Alliance, Ohio. Centrifugal pipe mold. 1,726,160; Aug. 27.
- Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
- Morgan & Wright. (See Eger, Ernst, assignor.)
- Morgan & Wright. (See Jury, Alfred E., assignor.)
- Morgan & Wright. (See Otto, Albert, assignor.)
- Morgan & Wright. (See Sloman, Cheri M., assignor.)
- Morgan & Wright. (See Wersen, Oscar, assignor.)
- Morgan, Saxton J., Albany, Wis. Escutcheon. 1,697,282; Jan. 1.
- Morgana, Charles, and H. T. Platz, assignors to Briggs Manufacturing Company, Detroit, Mich. Paint shield. 1,697,200; Jan. 1.
- Morgana, Charles, G. A. Miller, and N. M. Willet, assignors to Briggs Manufacturing Company, Detroit, Mich. Upholstery-button assembly. 1,702,127; Feb. 12.
- Morganmade, Incorporated. (See Davis, Sidney L., assignor.)
- Morgart, John R., York, Pa. Monogram identification for motor vehicles. 1,709,680; Apr. 16.
- Morgen, Ralph A., Oakland, and S. Yard and L. Rosenstein, San Francisco, Calif., assignors, by mesne assignments, to The Koppers Company. Gas purification and regenerating sulphidized alkaline solutions. 1,732,905; Oct. 22.
- Morgenroth, Albert. (See Kleinow, W., Morgenroth, Reinhardt, and Bruer.)
- Morgenstern, Joseph, Cleveland, Ohio. Switch box or receptacle. 1,725,293; Aug. 20.
- Moriarty, Alma P., Los Angeles, Calif. Silhouette corselet ensemble. 1,724,301; Aug. 13.
- Moriarty, John J., assignor of thirty per cent to J. H. S. Kerr, Toronto, Ontario, Canada. Rubber-reclamation process. 1,710,100; Apr. 23.
- Morici, Nazarene G., Chicago, Ill. Power-transmission device. 1,712,512; May 14.
- Morici, Nazarene G., Chicago, Ill. Power transmission apparatus. 1,734,143; Nov. 5.
- Morimoto, Yasaburo, Los Angeles, Calif. Vehicle traffic signal. 1,718,659; June 25.
- Morimura Bros. Inc. (See Tomita, Urasaburo, assignor.)
- Morin, Amos, Danielson, Conn., assignor to Victor Ring Traveler Company, Providence, R. I. Traveler for twisting machines. 1,735,469; Nov. 12.
- Morin, Charles A., Boston, Mass. Insole-trimming machine. 1,697,283; Jan. 1.



- Morin, Edgar G., jr., San Francisco, Calif. Door lock. 1,701,790; Feb. 12.
- Morin, Frank A., Dover, N. H. Ironing-board attachment. 1,736,354; Nov. 19.
- Morin, Louis H., assignor to Ideal Cup Corporation, Brooklyn, N. Y. Dispensing device. 1,698,239; Jan. 8.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Vending machine. 1,697,510; Jan. 1.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Company. Vending machine. 1,699,476; Jan. 15.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Kitchen utensil. 1,707,231; Apr. 2.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Chair. 1,711,959; May 7.
- Morin, Louis H., New York, assignor to Brillo Manufacturing Co., Brooklyn, N. Y. Packaging machine. 1,712,513; May 14.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Company. Vending-machine casing. 1,716,457; June 11.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Securing means for vending machines. 1,718,249; June 25.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Vending machine. 1,722,230; July 23.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Co. Vending machine. 1,723,948; Aug. 6.
- Morin, Louis H., New York, N. Y., assignor, by mesne assignments, to Doehler Vending Machines, Inc. Vending machine. 1,728,901; Sept. 17.
- Morin, Louis H., New York, N. Y., assignor, by mesne assignments, to Doehler Vending Machines, Inc. Unit vender. 1,732,853; Oct. 22.
- Morin, Louis H., New York, N. Y., assignor to Doehler Die-Casting Company. Chair. 1,734,144; Nov. 5.
- Morin, Louis H., New York, N. Y., assignor, by mesne assignments, to Doehler Vending Machines, Inc. Coin-controlled mechanism. 1,734,739; Nov. 5.
- Morin, Louis H., New York, N. Y., assignor, by mesne assignments, to Doehler Vending Machines, Inc. Coin-controlled mechanism. 1,734,740; Nov. 5.
- Morin, Louis H., New York, N. Y., assignor to Cambridge Rubber Company, Cambridge, Mass. Apparatus for making fastening devices. 1,737,261; Nov. 26.
- Morin, Louis H., New York, N. Y., assignor to Cambridge Rubber Company, Cambridge, Mass. Making fastening devices. 1,737,262; Nov. 26.
- Morin, Louis H., New York, N. Y., assignor, by mesne assignments, to Doehler Vending Machines, Inc. Web-dispensing device. 1,738,721; Dec. 10.
- Morin, Louis H., New York, N. Y., assignor, by mesne assignments, to Doehler Vending Machines, Inc. Vending machine. 1,739,982; Dec. 17.
- Morin, Phillice, assignor to Morin Saw Gauge Manufacturing Co., Seattle, Wash. Crosscut-saw jointer. 1,731,933; Oct. 15.
- Morin, Phyrze, and F. D. Lorenz, Burlingame, Calif. Garment support. 1,717,933; June 18.
- Morin Saw Gauge Manufacturing Co. (See Morin, Phillice, assignor.)
- Morin, William T., assignor to Pacific Abrasive Supply Company, Los Angeles, Calif. Drier. 1,713,237; May 14.
- Morinville, Julien, Montreal, Quebec, Canada. Air compressor. 1,718,250; June 25.
- Morioka, Isao, Tokyo, Japan. Photographic method of reproducing original objects. 1,719,483; July 2.
- Morison, George S., assignor to Morison Incorporated, Pittsburgh, Pa. Epicyclic double-reduction transmission. 1,706,180; Mar. 19.
- Morison, George S., assignor to Morison Incorporated, Pittsburgh, Pa. Epicyclic ball transmission. 1,735,616; Nov. 12.
- Morison, George S., assignor to Morison Incorporated, Pittsburgh, Pa. Ball transmission. 1,738,662; Dec. 10.
- Morison, Incorporated. (See Morison, George S., assignor.)
- Morita, Shosaku, Aza, Hodogaya-Machi, Japan. Wearless geared pump. 1,712,157; May 7.
- Morita, Yenjiro, Adzuma-machi, near Tokyo, Japan. Mechanical pencil. 1,698,445; Jan. 8.
- Moritsky, Lena, Brooklyn, N. Y. Die. 1,699,439; Jan. 15.
- Moritsky, Lena, Brooklyn, N. Y. Wrench. 1,717,241; June 11.
- Moritz, Knut L., Umea, Sweden. Machine for scrubbing floors. 1,737,513; Nov. 26.
- Moritz, Louis J., Calgary, Alberta, Canada. Rotary engine. 1,719,378; July 2.
- Moritz, William A., New York, N. Y. Electrical switch. 1,715,422; June 4.
- Mörk, Paul, Suttons Bay, Mich. Tree protector. 1,733,233; Oct. 29.
- Morkrum Company. (See Schmitt, Lawrence R., assignor.)
- Morkrum Kleinschmidt Corporation. (See Kleinschmidt Edward E., assignor.)
- Morland & Impey Limited. (See Power, Richard F., assignor.)
- Morlang, Harry J., Fort Worth, and J. J. Russell, Ranger, Tex., assignors to Oil Well Supply Company, Pittsburgh, Pa. Tubing support. 1,703,160; Feb. 26.
- Morley, Earl M., Delta, assignor to The Air-Scale Company, Toledo, Ohio. Tire-inflating apparatus. 1,736,274; Nov. 19.
- Morley, Guilford S., University City, assignor to Majestic Manufacturing Company, St. Louis, Mo. Oven-door rest. 1,702,517; Feb. 19.
- Morley, Guilford S., University City, assignor to Majestic Manufacturing Company, St. Louis, Mo. Cooking apparatus. 1,702,518; Feb. 19.
- Morley, Guilford S., University City, assignor to Majestic Manufacturing Company, St. Louis, Mo. Burner. 1,703,684; Feb. 26.
- Morley, James P., assignor to Bastian-Morley Company, La Porte, Ind. Water-heater drain. 1,742,000; Dec. 31.
- Moro Plow & Manufacturing Company. (See Monson, Martin B., assignor.)
- Mor-Pak Preserving Corporation. (See Moore, Thomas C., assignor.)
- Morral, Samuel E., (See Morral, William W., assignor.)
- Morral, William W., assignor of one-half to S. E. Morral, Morral, Ohio. Corn-husking machine. Re17,504; Nov. 26.
- Morreall, Herbert W., Pine Grove, Pa. Gang-operated disconnecting switch. 1,717,729; June 18.
- Morrell, Alfred F., (See Gordon, A. A., and Morrell.)
- Morrell, George S., et al., executors. (See Smith, Charles H.)
- Morrell, Jacques C., (See Egloff, G., and Morrell.)
- Morrell, Jacques C., Oak Park, Ill. Activating carbon. 1,712,930; May 14.
- Morrell, Jacques C., Oak Park, Ill. Activating carbon. 1,713,347; May 14.
- Morrell, Jacques C., assignor to Universal Oil Products Company, Chicago, Ill. Treating residual oils. 1,705,199; Mar. 12.
- Morrell, Jacques C., assignor to The Universal Oil Products Company, Chicago, Ill. Treating hydrocarbon oil. 1,710,063; Apr. 23.
- Morrell, Jacques C., assignor to Universal Oil Products Company, Chicago, Ill. Refining of petroleum oils. 1,733,619; Oct. 29.
- Morrell, Jacques C., assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbons. 1,733,620; Oct. 29.
- Morrell, Jacques C., assignor to Universal Oil Products Company, Chicago, Ill. Vapor fractionation. 1,738,356; Dec. 3.
- Morrell, Jacques C., and H. P. Benner, assignors to The Universal Oil Products Company, Chicago, Ill. Prevention of substantial corrosion in hydrocarbon-oil-treating apparatus. 1,715,095; May 28.
- Morrell Mills, Inc. (See Holmes, Benjamin, assignor.)
- Morrill, Alfred R., (See Topham, L. E., and Morrill.)
- Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,702,662; Feb. 19.
- Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam-sewing machine. 1,714,801; May 28.
- Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam-trimming machine. 1,716,079; June 4.
- Morrill, Benjamin B., Stanstead, Quebec, Canada. Golf practice apparatus. 1,697,131; Jan. 1.
- Morrill, Charles H., Swampscott, and S. F. Cushman, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Vulcanized shoe and method of manufacture. 1,699,669; Jan. 22.
- Morrill, Lewis H., assignor to The Buda Company, Harvey, Ill. Turbine construction. 1,701,539; Feb. 12.
- Morrill, Maurine B., Beverly Hills, Calif. Detachable weather strip. 1,736,835; Nov. 26.
- Morrill, William C., New York, N. Y. Dispensing valve. 1,715,774; June 4.
- Morris, Albert W., Springfield, Mass., assignor to G. E. Coblens, New York, N. Y. Making compressed dehydrated cellulose sheets. 1,739,766; Dec. 17.
- Morris, Alfred O., Liverpool, England. Manufacture of meal for use in connection with sausage meat, meat and fish paste, and the like. 1,729,590; Sept. 24.
- Morris, Anna R., (See Morris, Warder E., assignor.)
- Morris, Anthony S., Haverford, assignor to Cresson-Morris Company, Philadelphia, Pa. Treating oils. 1,714,231; May 21.
- Morris, Anthony S., Haverford, assignor to Cresson-Morris Company, Philadelphia, Pa. Spraying device. 1,714,232; May 21.
- Morris, Arthur, Syracuse, N. Y. Vehicle brake. 1,702,449; Feb. 19.
- Morris, Charles E., Leavenworth, Kans. Center pole and support therefor. 1,729,958; Oct. 1.
- Morris, Charles E., Little Rock, Ark. Cotton chopper. 1,736,127; Nov. 19.
- Morris, Daniel, St. Petersburg, Fla. Wing heater for aeroplanes. 1,733,465; Oct. 29.
- Morris, David M., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Spring-tooth mounting. 1,709,536; Apr. 16.
- Morris, Dwight, assignor to R. E. Janes, Dallas, Tex. Brush-ring mechanism for pipe painting. 1,718,757; June 25.
- Morris, Earl H., Uniontown, Ky. Derrick. 1,712,396; May 7.
- Morris, Edmund, Grand Rapids, Mich., assignor, by mesne assignments, to Grand Rapids Store Equipment Corporation. Show case. 1,714,233; May 21.



- Morris, Edmund, and A. Vanderveld, assignors to Grand Rapids Store Equipment Corporation, Grand Rapids, Mich. Disappearing door structure. 1,720,050; July 9.
- Morris, Edward T., London, England, assignor to R. Hoe & Co. Inc., New York, N. Y. Wire-stitching apparatus applicable to rotary printing machines. 1,711,960; May 7.
- Morris, Elmer C., Chicago, Ill., assignor, by mesne assignments, to Servo Paper Corporation. Dispensing device for folded napkins and the like. 1,728,694; Sept. 17.
- Morris, Frank E. (See Bergner, John P., assignor.)
- Morris, Frank L. (See Waite, R. A., and Morris.)
- Morris, Fred C., San Francisco, Calif. Steering-column bushing. Re17,372; July 9.
- Morris, Fred C., San Francisco, Calif. Antirattling bearing bushing. 1,716,499; June 11.
- Morris, George A., assignor of one-half to W. E. Schaper, St. Louis, Mo. Airplane. 1,724,883; Aug. 13.
- Morris, George A., and O. C. Byrd, Webb City, Okla. Sand reamer. 1,727,246; Sept. 3.
- Morris, George D., and G. Klein, assignors to New Castle Refractories Company, New Castle, Pa. Kiln car. 1,739,176; Dec. 10.
- Morris, George E. (See Morris, George J., assignor.)
- Morris, George J., assignor to George E. Morris, Los Angeles, Calif. Faucet fitting. 1,721,786; July 23.
- Morris, Harry B. (See McClung, S. W., Boyd, and Morris.)
- Morris, Harvey F., Rochester, N. Y. Emblem badge or similar article. Des. 79,895; Nov. 12.
- Morris, Herbert C. (See Harper, William, assignor.)
- Morris, Herbert N., Manchester, England. Printing ink for producing designs on rubber or other like materials. 1,715,209; May 28.
- Morris, Howard A. (See Aldrich, J. P., and Morris.)
- Morris, Howard I., assignor to The Cord Tire Machine Company, Cleveland, Ohio. Tire-making machine. 1,702,088; Feb. 12.
- Morris, Howard I., assignor to The Yoder-Morris Company, Cleveland, Ohio. Fuel-burning mechanism and conditioning fuel for burning purposes. 1,722,504; July 30.
- Morris, Howard I., assignor to The Yoder-Morris Company, Cleveland, Ohio. Fuel-burning mechanism. 1,722,505; July 30.
- Morris, Howard I., assignor to The Yoder-Morris Company, Cleveland, Ohio. Electric switch. 1,726,675; Sept. 3.
- Morris, Howard I., assignor to The Cord Tire Machine Company, Cleveland, Ohio. Machine for making tire-forming material. 1,726,755; Sept. 3.
- Morris, Howard I., assignor to The Cord Tire Machine Company, Cleveland, Ohio. Tire-forming material. 1,727,859; Sept. 10.
- Morris, Howard I., assignor to The Yoder-Morris Company, Cleveland, Ohio. Forming and stripping means. 1,730,621; Oct. 8.
- Morris, Howard I., assignor to The Cord Tire Machine Company, Cleveland, Ohio. Machine for fabricating materials and making carcasses. 1,732,525; Oct. 22.
- Morris, Howard I., assignor to The Cord Tire Machine Company, Cleveland, Ohio. Apparatus for and process of making tire casings. 1,735,351; Nov. 12.
- Morris, Howard I., Lakewood, assignor to The Cord Tire Machine Company, Cleveland, Ohio. Tire-making machine. 1,716,652; June 11.
- Morris, Howard I., Lakewood, assignor to The Yoder-Morris Company, Cleveland, Ohio. Switch means. 1,725,963; Aug. 27.
- Morris, Howard I., Lakewood, assignor to The Cord Tire Machine Company, Cleveland, Ohio. Apparatus for fabricating materials. 1,726,497; Aug. 27.
- Morris, Howard I., Lakewood, assignor to The Yoder Pencil Company, Cleveland, Ohio. Writing device. 1,729,791; Oct. 1.
- Morris, Howard I., Lakewood, assignor to The Yoder Pencil Company, Cleveland, Ohio. Writing device. 1,737,862; Dec. 3.
- Morris, Hubert C., Albany, Oreg. Making doors. 1,703,452; Feb. 26.
- Morris, I. P., Corporation. (See Kruse, Otto V., assignor.)
- Morris, I. P., Corporation. (See Larner, Chester W., assignor.)
- Morris, I. P., Corporation. (See Rogers, Frank H., assignor.)
- Morris, I. P., Corporation. (See Sharp, Robert E. B., assignor.)
- Morris, James J., assignor to M. M. Mayer, Chicago, Ill. Display apparatus. 1,704,402; Mar. 5.
- Morris, James J., assignor to Rockford Drilling Machine Company, Rockford, Ill. Spindle-drive transmission mechanism. 1,709,439; Apr. 16.
- Morris, John E., Columbus, Ohio. Door-fastening means. 1,709,915; Apr. 23.
- Morris, John L., and B. E. Mitchell, Woodsdale, N. C. Rotating sign-display device. 1,738,840; Dec. 10.
- Morris, Jolly L. (See Allen, C. H., and Morris.)
- Morris, Jonah W., assignor to Endicott Johnson Corporation, Endicott, N. Y. Dust hood for buffing machines. 1,722,853; July 30.
- Morris, Louis P. (See Lower, N. M., Steele, and Morris.)
- Morris Paper Mills. (See Arneson, Lawrence E., assignor.)
- Morris, Paul L., Pottstown, Pa. Peanut-picking machine. 1,704,805; Mar. 12.
- Morris, Richard H., 3d, Philadelphia, Pa. Plant soil. 1,717,059; June 11.
- Morris, Richard J., and C. E. Cowley, Cleveland, Ohio. Utensil rack. 1,716,863; June 11.
- Morris, Robert B., Newark, and H. Peterson, South Orange, N. J. Condenser. 1,738,194; Dec. 3.
- Morris, Robert W., Roslyn, N. Y., assignor to American Telephone and Telegraph Company. Cone loud speaker. 1,700,805; Feb. 5.
- Morris, Robert W., Roslyn, N. Y., assignor to American Telephone and Telegraph Company. Cone loud speaker. 1,700,806; Feb. 5.
- Morris, Robert W., Roslyn, and S. F. Nelson, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Premature-disconnect signal for telephone circuits. 1,728,975; Sept. 24.
- Morris, Theodore A., Boston, Mass. Mop. 1,711,242; Apr. 30.
- Morris, Wade H., Hampton, and W. C. Tucker, Newport News, Va. Jointer guard. 1,700,206; Jan. 29.
- Morris, Warder E., assignor of one-half to A. R. Morris, Salem, Ind. Bird trap. 1,729,275; Sept. 24.
- Morris, Warren A., Wyoming, assignor to The Richardson Company, Lockland, Ohio. Carton. 1,704,055; Mar. 5.
- Morris, Warren A., Wyoming, assignor to The Richardson Company, Lockland, Ohio. Carton. 1,715,096; May 28.
- Morris, William H., Marshalltown, Iowa. Door holder. 1,709,864; Apr. 23.
- Morris, William J., Denver, Colo. Football score board. 1,733,383; Oct. 29.
- Morrissey, William J., Los Angeles, Calif. Motor ignition shield for automobiles. 1,711,961; May 7.
- Morrison Brushes, Inc. (See Vaughan, Anne B., assignor.)
- Morrison, Charles S., Elkins Park, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Toggle. 1,707,919; Apr. 2.
- Morrison, Clarence E., Albany, N. Y. Rotary duplicator. 1,740,195; Dec. 17.
- Morrison, George O. (See Skirrow, F. W., and Morrison.)
- Morrison, George O., Shawinigan Falls, assignor to Canadian Electro Products Company, Limited, Montreal, Quebec, Canada. Continuous process for the manufacture of vinyl esters. 1,710,181; Apr. 23.
- Morrison, Harry S., Cranston, R. I. Toasting machine. 1,720,800; July 16.
- Morrison, James J., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Electric cable. 1,730,740; Oct. 8.
- Morrison, John A., Spokane, Wash. Alarm apparatus. 1,732,276; Oct. 22.
- Morrison, John H., East Orange, N. J., assignor to Utility Container Corporation. Sanitary moistureproof container. 1,740,828; Dec. 24.
- Morrison, Joseph C., Cincinnati, assignor to The Hamilton Caster & Manufacturing Company, Hamilton, Ohio. Truck. 1,728,436; Sept. 17.
- Morrison, Montford, Chicago, Ill. Transformer device. 1,696,964; Jan. 1.
- Morrison, Montford, Chicago, Ill. Terminal device. 1,716,144; June 4.
- Morrison, Richard, Great Barrington, Mass. Water-feed regulator. 1,726,710; Sept. 3.
- Morrison, Robert F., Yonkers, N. Y., assignor to The International Pavement Company, Hartford, Conn. Press. 1,734,741; Nov. 5.
- Morrison-Skinner Company. (See Foss, Laurence M., assignor.)
- Morrison Stitcher Corporation. (See Lawrence, Frank E., assignor.)
- Morrison, Theodore V., Atlanta, Ga., assignor to Alpha Lambda Tau Fraternity. Badge. Des. 77,493; Jan. 15.
- Morrison, Webster E., Lusk, Wyo. Theatrical appliance. 1,735,352; Nov. 12.
- Morrison, William, assignor to Vesta Battery Corporation, Chicago, Ill. Storage battery. 1,712,897; May 14.
- Morrison, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Safety device for oil-injection engines. 1,740,259; Dec. 17.
- Morris, Benham et al. (See Pettit, James C., assignor.)
- Morris, Edward T., Letchworth, England. Perambulator and the like. 1,712,712; May 14.
- Morrissey, Patrick W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Cotton harvester. 1,705,225; Mar. 12.
- Morrissey, Thomas F., Swissvale, Pa. Safety seat for window cleaners. 1,723,654; Aug. 6.
- Morro, Norman A., Auckland, New Zealand. Housing for electric heating elements. 1,711,423; Apr. 30.
- Morro, Norman A., Auckland, New Zealand. Flushing valve for cisterns. 1,736,719; Nov. 19.
- Morrow, Alfred J., Oakland, Calif. Paper truck. 1,704,139; Mar. 5.
- Morrow, Alfred J., Oakland, Calif. Warehouse truck. 1,725,095; Aug. 20.
- Morrow, Bert H., assignor of one-third to O. B. Harlan, Corsicana, Tex. Tubing or pipe pulling spider. 1,725,666; Aug. 20.
- Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Thermostatic valve mechanism. 1,698,413; Jan. 8.
- Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Thermostat for domestic water boilers. 1,702,053; Feb. 12.



- Morrow, Clarence H., assignor to The Hotstream Heater Company, Cleveland, Ohio. Burner. 1,702,054; Feb. 12.
- Morrow, Forrest L., assignor to Food Display Machine Corporation, Chicago, Ill. Frankfurt-roasting machine. 1,716,653; June 11.
- Morrow, Frank C. (See Jonas, B. G., and Morrow.)
- Morrow, Frank C., Wellston, Ohio. Mechanical movement. 1,698,446; Jan. 8.
- Morrow, James B., Oakland, Calif. Coal-oil burner. 1,698,061; Jan. 8.
- Morrow, James E. (See Miadowicz, Frank, assignor.)
- Morrow, Maud E. (See Bendixen, R. C., and Morrow.)
- Morsa, Angelo S., Camden, N. J. Can raising and discharging mechanism for can-boiling devices. 1,700,443; Jan. 29.
- Morse, Albert W., Long Island City, N. Y. Oil burner. 1,698,103; Jan. 8.
- Morse, Albert W., Long Island City, N. Y. Radiant-heat oven. 1,734,870; Nov. 5.
- Morse, Albert W., Long Island City, N. Y. Heat-treating oven. 1,734,871; Nov. 5.
- Morse, Albert W., Long Island City, N. Y. Combination gas and oil burner. 1,741,532; Dec. 31.
- Morse, Albert W., New York, N. Y. Method and apparatus for heating oil. 1,719,615; July 2.
- Morse, Alonzo C. (See Insko, S. D., and Morse.)
- Morse, Carl K., assignor to E. H. Morse, Greenwich, Conn. Oil-separating apparatus. 1,702,612; Feb. 19.
- Morse, Carl K., assignor E. H. Morse, Greenwich, Conn. Separating oil from water and refuse materials. 1,702,613; Feb. 19.
- Morse, Calvin E., Des Moines, Iowa. Wrench. 1,733,355; Oct. 29.
- Morse Chain Company. (See Morse, Frank L., assignor.)
- Morse, Clark T., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Radiator. 1,704,014; Mar. 5.
- Morse, Clark T., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Forming radiators. 1,719,847; July 9.
- Morse, Clark T., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Heating and ventilating apparatus. 1,738,719; Dec. 10.
- Morse, Clark T., assignor to American Blower Corporation, Detroit, Mich. Stiffening member on sirocco fan casing. 1,705,200; Mar. 12.
- Morse, Edward C. (See Farmer, James T., jr., assignor.)
- Morse, Eleanor H. (See Morse, Carl K., assignor.)
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Tensioning device for drive chains. 1,701,820; Feb. 12.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiplate drive chain. 1,727,129; Sept. 3.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiple-drive chain. 1,734,688; Nov. 5.
- Morse, George P., et al. (See Lidsky, Louis, assignor.)
- Morse, Harold F., Southport, Conn., assignor to General Electric Company. Electric switch. 1,718,478; June 25.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,633; Nov. 5.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,634; Nov. 5.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,635; Nov. 5.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,636; Nov. 5.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,637; Nov. 5.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,638; Nov. 5.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,639; Nov. 5.
- Morse, Henry B., Danvers, assignor, by mesne assignments, to A. C. Burrage, jr., Ipswich, Mass. Vulcanizing rubber and resulting products. 1,734,640; Nov. 5.
- Morse, Herman J., Raymond, Wash. Aeroplane. 1,710,028; Apr. 23.
- Morse, Lawrence H., and C. Chisholm, assignors to The American Multigraph Company, Cleveland, Ohio. Tabulating attachment for keyboard machines. 1,702,611; Feb. 19.
- Morse, Lyman D., Butte City, Calif. Harvester attachment. 1,739,558; Dec. 17.
- Morse, Norman W., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,697,324; Jan. 1.
- Morse, Oliver C. (See Cleveland, A. W., and Morse.)
- Morse, Robert V., Ithaca, N. Y. Airplane. 1,702,506; Feb. 19.
- Morse, Robert V., Ithaca, N. Y. Antiaircraft fire control. 1,707,274; Apr. 2.
- Morse, Sterne, Cleveland Heights, Ohio. Electric heater. 1,738,663; Dec. 10.
- Morse, Waldo G., trustee. (See Proctor, Barton A., assignor.)
- Mortarless Tile Machine Company. (See Lewis, Elizabeth, assignor.)
- Mortelmans, Franciscus G., and W. J. Meijer, The Hague, Netherlands. Apparatus for transferring and multiplying on photographic way images upon printing plates. 1,698,141; Jan. 8.
- Morten, Luis G. (See Weber, J., and Morten.)
- Mortensen, Alfred A., Minneapolis, Minn. Dashboard gasoline indicator. 1,736,797; Nov. 26.
- Mortensen, Niels L., Whitefish Bay, Wis., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor controller. 1,713,777; May 21.
- Mortensen, Niels L., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor controller. 1,715,377; June 4.
- Mortensen, Soren H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Alternating-current motor. 1,698,556; Jan. 8.
- Mortenson, Olaf, and O. De Guire, Silverton, Oreg. Fuel control. 1,737,196; Nov. 26.
- Morterud, Einar, Torderod, near Moss, Norway. Operation of pulp digesters. 1,703,745; Feb. 26.
- Morterud, Einar, Torderod, near Moss, Norway. Apparatus for the evaporation of liquids. 1,731,146; Oct. 8.
- Mortimer, Charles W. (See Ames, C. F., jr., and Mortimer.)
- Mortimer Newman Company, The. (See Frankle, Arthur C., assignor.)
- Mortimer, Samuel E., and W. V. Clampet, Dayton, Ohio. Combined drill and hole cleaner. 1,698,343; Jan. 8.
- Mortka, John, Brooklyn, N. Y. Vehicle brake. 1,729,226; Sept. 24.
- Mortka, John, Brooklyn, N. Y. Rail fastening. 1,731,258; Oct. 15.
- Morton, Alex A., Cincinnati, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Electric meter. 1,702,409; Feb. 19.
- Morton, Alexander, assignor to H. Morton, Glen Ridge, N. J. Pocket lumber rule and marking guide. 1,732,906; Oct. 22.
- Morton, Allen W., assignor to The American Hammered Piston Ring Company, Baltimore, Md. Piston ring. 1,723,432; Aug. 6.
- Morton, Arnold H. (See Burch, J. F., and Morton.)
- Morton, Benjamin A., New York, N. Y. Window construction. 1,730,471; Oct. 8.
- Morton, Charles, Pawtucket, R. I. Spinning frame. 1,721,028; July 16.
- Morton, Charles K., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Airplane. 1,698,853; Jan. 15.
- Morton, Charles K., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Retractable generator mount. 1,718,795; June 25.
- Morton, Dudley J., New Haven, Conn. Staticometer. 1,733,510; Oct. 29.
- Morton, Edmund R. (See Stoller, H. M., and Morton.)
- Morton, Eric A. (See Hazeley, E., and Morton.)
- Morton, Eric A. (See Topham, C. F., Hazeley, and Morton.)
- Morton, Frank M., Phenix City, Ala. Roll-spreading jack. 1,707,870; Apr. 2.
- Morton, Frank M., Phenix City, Ala., assignor of two-thirds to S. W. Jackson and W. P. Sayers, Muscogee County, Ga. Raw-stock-dyeing apparatus. 1,737,940; Dec. 3.
- Morton, Harold A., Akron, Ohio. Protection of aldehydes from oxidation and agents therefor. 1,736,747; Nov. 19.
- Morton, Harry E., assignor to B. F. Sturtevant Company, Hyde Park, Mass. Internal-combustion engine. 1,723,879; Aug. 6.
- Morton, Harry U., assignor to Morton Mfg. Co., Chicago, Ill. Curtain shoe. 1,718,479; June 25.
- Morton, Helen. (See Morton, Alexander, assignor.)
- Morton, Henry H., et al. (See Gotchy, Joseph F., assignor.)
- Morton, James, and J. B. Webster, Carlisle, assignors to Morton Sundour Fabrics Limited, Dentonhill, Carlisle, England. Slackening the weft when weaving fabrics. 1,708,148; Apr. 9.
- Morton Manufacturing Company. (See Schroyer, Harry H., assignor.)
- Morton Mfg. Co. (See Morton, Harry U., assignor.)
- Morton, Robert, Organ Co. (See Carlsted, Paul S., assignor.)
- Morton, Rolla A. (See Henry, E. P., and Morton.)
- Morton Sundour Fabrics Limited. (See Morton, J., and Webster, assignors.)
- Morton, Wade, Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill. Combination automobile body, hood, and radiator. Des. 79,563; Oct. 8.
- Morton, William A., Pittsburgh, Pa. Method and apparatus for drawing sheet glass. 1,726,114; Aug. 27.
- Morton, William A., assignor to Amco, Incorporated, Pittsburgh, Pa. Conveying roll for furnaces and the like. 1,737,117; Nov. 26.
- Mortz, W. Brown. (See Arendt, Morton, assignor.)
- Mörtz, Wilhelm L., Wandsbek, near Hamburg, Germany. Loading plant. 1,741,374; Dec. 31.
- Moru, Walter W., Kenosha, Wis. Spotlight. 1,741,788; Dec. 31.
- Mosaic Tile Company, The. (See Jordan, Roy E., assignor.)
- Mosbacher, Edward D., assignor of one-half to W. H. Mosbacher, Meadville, Pa. Adjustable window screen. 1,722,854; July 30.
- Mosbacher, Walter H. (See Mosbacher, Edward D., assignor.)



- Mosch, Franz J., Berlin-Siemensstadt, and H. Höfler, Berlin-Charlottenburg, Germany, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Remote control system. 1,702,479; Feb. 19.
- Moschel, Wilhelm. (See Jaeger, M., Moschel, and Suchy.)
- Moscicki, Ignacy, Lwow, Poland. Process of and apparatus for dewatering oil emulsions. 1,710,374; Apr. 23.
- Moscini, John, Newark, N. J. Automatic reversing-gear mechanisms. 1,732,610; Oct. 22.
- Mosconi, Enrique, Buenos Aires, Argentina. Optical attachment for liquid pumps. 1,698,768; Jan. 15.
- Mosebach Electric & Supply Company. (See Schenk, Eduard, assignor.)
- Mosel, Joseph H., Lakewood, assignor, by mesne assignments, to The Jaeger Machine Company, Columbus, Ohio. Form for concrete road curbing. 1,739,254; Dec. 10.
- Moseley, Tomlinson I. (See Rudin, Charles F., assignor.)
- Moser, Noah, Long Beach Calif. Airplane drive. 1,706,457; Mar. 26.
- Moser, Wilhelm, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for wireless telegraphy and telephony. 1,734,772; Nov. 5.
- Moses, Amariah J., and F. H. Wright, assignors to The Casey-Hedges Co., Chattanooga, Tenn. Handpole plate. 1,735,126; Nov. 12.
- Moses, Asheleigh S., St. Louis, Mo. Washing machine. 1,699,618; Jan. 22.
- Moses, Frank D., deceased, Trenton, N. J.; T. Watson, executor. Gas apparatus. 1,727,892; Sept. 10.
- Moses, Frederick G., New York, R. W. Hess, Buffalo, and R. L. Perkins, East Aurora, assignors to The Barrett Company, New York, N. Y. Separation of minerals by flotation. 1,739,369; Dec. 10.
- Moses, Harry M., Chicago, Ill., assignor, by mesne assignments, to The Steinau Company, Louisville, Ky. Easel. 1,720,684; July 16.
- Moses, James F., Tanglefoot, British Columbia, Canada. Hitch. 1,717,398; June 18.
- Moses, Kirke L., Springfield, Mass. Treating highly-porous paperlike material. 1,716,654; June 11.
- Mosheim, Albert, New York, N. Y. Cake of soap. Des. 80,240; Dec. 31.
- Mosher, Albert G., Syracuse, N. Y. Abrading wheel. 1,736,355; Nov. 19.
- Mosher, John L., Albany, N. Y. Automatic atmospheric-pressure balancer for buildings. 1,717,399; June 18.
- Mosher, Sherman L., Coffeeville, Miss. Seed-gathering device. 1,724,037; Aug. 13.
- Mosher, Willet H., Buffalo, N. Y. Furnace. 1,708,233; Apr. 9.
- Mosinee Paper Mills Company. (See Kernin, Alfred G., assignor.)
- Moskovitz, Philip. (See Moskovitz, Sophie and P.)
- Moskovitz, Sophie and P., Philadelphia, Pa. Hair waver. 1,701,270; Feb. 5.
- Moskovitz, Meyer. (See Ebert, C., Newkirk, and Moskovitz.)
- Mosler Lock Company, The. (See Benham, Edgar M., assignor.)
- Mosler Safe Company, The. (See Bates, C. J., jr., and Bartels, assignors.)
- Mosley, John, Peoria, Ill. Well-drilling tool. 1,736,504; Nov. 19.
- Mosman, Warren F., et al. (See Aring, W. J., and Adams, assignors.)
- Mosquit, Alex, Clayton, N. J. Ventilated shoe. 1,718,756; June 25.
- Moss, Charles M. (See Hodgkins, C. H., and Moss.)
- Moss, Charles McL., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical distribution system. 1,714,722; May 28.
- Moss, Charles McL., Pittsburgh, and W. R. Farley and A. J. A. Peterson, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Automatic reclosing circuit-breaker system. 1,731,864; Oct. 15.
- Moss, Frank J., Kansas City, Mo. Compartmental service door. 1,738,539; Dec. 10.
- Moss, J. E. (See Gray, William C., assignor.)
- Moss, Jack J., Mount Vernon, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Means to suspend shower-bath curtains. 1,714,885; May 28.
- Moss, Perry M., Huntington Beach, Calif. Well-drilling apparatus. 1,721,029; July 16.
- Moss Rose Manufacturing Company. (See Earnshaw, Joseph C., assignor.)
- Moss, Victor G., and A. C. Taylor, assignors to Automatic Specialties Co., Cleveland, Ohio. Rumble seat. 1,707,065 Mar. 26.
- Moss, Walter L., Waco, Tex. Cloth-cutting machine. 1,742,047; Dec. 31.
- Moss, William H., Detroit, Mich. Stub-axle mount. 1,704,140; Mar. 5.
- Moss, William L. (See Reeson, J. N., and Moss.)
- Mossay & Company. (See Mossay, Paul A. H., assignor.)
- Mossay, Paul A. H., Ipswich, assignor to Mossay & Company, Limited, London, England. Motor-propelled crane. 1,716,732; June 11.
- Mossay, Paul A. H., assignor to Mossay & Company, Limited, London, England. Motor-propelled crane. 1,733,356; Oct. 29.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Spool. 1,697,777; Jan. 1.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Pan. 1,699,372; Jan. 15.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Spool. 1,732,817; Oct. 22.
- Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
- Mosser, Edward B., Trooper, Pa. Stocking. Des. 77,703; Feb. 12.
- Mosser, Edward B., Philadelphia, Pa. Stocking. Des. 78,168; Apr. 2.
- Mosser, Edward B., Philadelphia, Pa. Stocking. Des. 79,379; Sept. 10.
- Mossi, Charles B., Brooklyn, and H. A. Chevola, assignors to L. Barth & Co. Inc., New York, N. Y. Heater plate for ranges, ovens, and the like. 1,726,498; Aug. 27.
- Mossor, A. Homer. (See Weltner, Corliss L., assignor.)
- Mosteller, Dosier H., Folsom, Calif. Double-action pump. 1,730,041; Oct. 1.
- Moszelt, Steve, South Akron, Ohio. Dice box. 1,727,483; Sept. 10.
- Motheral, Harry H., Yonkers, N. Y. Pressure gauge. 1,729,178; Sept. 24.
- Motherwell, Joseph W., Melrose, assignor to The Ashton Valve Company, Cambridge, Mass. Pressure gauge. 1,734,977; Nov. 12.
- Moths, Raymond J., Milwaukee, Wis. Chimney flue. 1,700,850; Feb. 5.
- Motley, Edward P. (See Williams, David C., assignor.)
- Motograph Corporation of America. (See Barker, Harry B., assignor.)
- Motometer Company, The. (See Behnke, Cord H., assignor.)
- Motometer Company, The. (See Chéron, Pierre J., assignor.)
- Moto Meter Co., The. (See Hill, Thomas, assignor.)
- Moto Meter Company. (See Schlaich, Herman, assignor.)
- Moto Meter Company, The. (See Sieper, Otto, assignor.)
- Motometer Company, The. (See Springer, Franklin W., assignor.)
- Motometer Company, The. (See Townsend, George H., assignor.)
- Motor Improvements, Inc. (See Arnold, George A., assignor.)
- Motor Improvements, Inc. (See Greenhalgh, G. H., and Liddell, assignors.)
- Motor Improvements, Inc. (See Liddell, Robert P. F., assignor.)
- Motor Industries, Inc. (See White, D'Orsay M., assignor.)
- Motor Products Corporation. (See Fill, Lynn A., assignor.)
- Motor Products Corporation. (See Kellogg, Homer G., assignor.)
- Motor Products Corporation. (See Parsons, Carl B., assignor.)
- Motor Products Corporation. (See Pritchard, William S., assignor.)
- Motor Pumpen Gesellschaft m. b. H. (See Güttinger, Heinrich, jr., assignor.)
- Motor Research Company. (See Roux, Octave R., assignor.)
- Motor Safety and Free Gear Company Limited. (See Wilson, George, assignor.)
- Motor Wheel Corporation. (See Nelson, Emil A., assignor.)
- Motorenfabrik Deutz Aktiengesellschaft. (See Gaupp, Rudolf, assignor.)
- Motorenfabrik Deutz Aktiengesellschaft. (See Heidelberg, Victor, assignor.)
- Motorenfabrik Deutz Aktiengesellschaft. (See Schmidt, Kurt, assignor.)
- Mott, Abram C., jr., Lansdale, and C. H. Wheawill, Philadelphia, assignors to Abram Cox Stove Company, Lansdale, Pa. Combustion ring for furnaces. 1,702,977; Feb. 19.
- Mott, Everett V. (See Rovere, L. H., Mott, and Ayers.)
- Mott, George T., Pearl River, N. Y. Apparatus for heat exchanging. 1,738,914; Dec. 10.
- Mott, Hans, Hamburg, Germany. Chair or similar seat. 1,698,344; Jan. 8.
- Mott, Hugh F., Katherine, Ariz. Canvas auto cover. 1,728,437; Sept. 17.
- Mott, Judson L., assignor to Merchants Advertising Company, Adrian, Mich. Clock case. Des. 77,428; Jan. 8.
- Mott, Judson L., assignor to Merchants Advertising Company, Adrian, Mich. Clock case. Des. 77,429; Jan. 8.
- Mottaway, Mary C., Mansfield, Ohio. Time chart. 1,717,060; June 11.
- Motter, James S., Milwaukee, Wis. Tire dressing or finish. 1,714,919; May 28.
- Motter, James S., assignor to O'Neal Duro Company, Milwaukee, Wis. Decorating celluloid. 1,702,663; Feb. 19.
- Motteram, Etta, Clapham, London, England. Medical pessary. 1,732,413; Oct. 22.
- Mottet, Emil, Holeyton, Ill. Shoe last. 1,723,949; Aug. 6.
- Mottier, Walter F., El Campo, Tex. Gear-shifting apparatus. 1,727,663; Sept. 10.
- Mottier, Walter F., El Campo, Tex. Gear-shifting mechanism. 1,734,441; Nov. 5.
- Mottinger, Byron T., and D. W. McDowell, Philadelphia, Pa., assignors, by mesne assignments, to H. K. Porter, Inc., Everett, Mass. Metal-cutting tool. 1,712,800; May 14.
- Mottlau, August J., Pittsburgh, Pa. Telefocus camera. 1,729,792; Oct. 1.



- Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,699,802; Jan. 22.
- Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,709,681; Apr. 16.
- Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay and making the same. 1,710,782; Apr. 30.
- Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-speed circuit breaker. 1,731,391; Oct. 15.
- Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermostatic regulator. 1,731,903; Oct. 15.
- Mottlau, August J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,736,979; Nov. 26.
- Mottur, Joseph, Brooklyn, N. Y. Elastic self-supporting hose. 1,697,469; Jan. 1.
- Moudry, Annette, New York, N. Y. Cushion or pillow cover. 1,716,145; June 4.
- Mougey, Harry C., assignor to General Motors Research Corporation, Detroit, Mich. Oil heater and crank-case ventilator. 1,721,525; July 23.
- Mougey, Wilbur E., Aldwyth, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for measuring the inductance of cables and conductors. 1,700,444; Jan. 29.
- Mould, James A., Milwaukee, assignor, by mesne assignments to Pioneer Manufacturing Company, West Allis, Wis. Mechanism for lubricating internal-combustion engines. 1,701,726; Feb. 12.
- Moulton, Edgar S., St. Johns Park, Fla. Tire. 1,739,370; Dec. 10.
- Moulton, Forest R., assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Driving mechanism for motion-picture-projection machines. 1,742,001; Dec. 31.
- Moulton, Lloyd W. (See Kavie, O. C., and Moulton.)
- Moulton, Lloyd W., assignor to Will & Baumer Candle Company, Incorporated, Syracuse, N. Y. Candle-assembling machine. 1,702,229; Feb. 12.
- Mounce, Gordon E., Portland, Oreg. Aeroplane. 1,729,354; Sept. 24.
- Mound City Wood Heel and Mfg. Co. (See Marshall, David O., assignor.)
- Mt. Carmel Manufacturing Company, The. (See Goodman, Joseph, assignor.)
- Mount, William D., Lynchburg, Va. Producing wood pulp. 1,725,818; Aug. 27.
- Mount, William D., Lynchburg, Va. and I. Warner, Wilmington, Del. Kiln. 1,725,763; Aug. 27.
- Mountain City Knitting Mills. (See Magill, Edward A., assignor.)
- Mountain, John R., Warren, Ohio. Speed-control box for steel ladles. 1,725,096; Aug. 20.
- Mounford, Thomas A., Newark, N. J., assignor to Blencard & Co., Inc., New York, N. Y. Making tops for jewel settings. 1,703,685; Feb. 26.
- Mounford, Thomas, assignor to Blencard & Co., Inc., Newark, N. J. Finger ring and constructing and assembling the same. 1,705,992; Mar. 19.
- Mounford, Thomas, assignor to Blencard & Co., Inc., Newark, N. J. Ring construction. 1,731,786; Oct. 15.
- Mourar, Harold W., North Coventry Township, Chester County, Pa. Sound-modifying disk for radio or phonograph receivers. 1,709,276; Apr. 16.
- Mourfield, Carl L., Houston, assignor to The Murray Company, Dallas, Tex. Automatic tramper-control mechanism. 1,728,503; Sept. 17.
- Mourlaque, Gaston A., Paris, France. Method and apparatus for making paper. 1,710,375; Apr. 23.
- Mourontseff, Ila E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube device. 1,707,275; Apr. 2.
- Mourontseff, Ila E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum tube. 1,718,206; June 18.
- Moussong, Andrew. (See Moussong, Paul and A.)
- Moussong, Paul and A., Budapest, Hungary, assignors to L. Turnai, Brooklyn, N. Y. Device for improving the sound effect of violins and like instruments. 1,704,708; Mar. 12.
- Mowat, Alfred L., Scholes, Cleckheaton, and E. Ingham, The Grange, Cleckheaton, England. Metallic clothing for opening, breaking, preparing, or carding fibrous substances. 1,707,738; Apr. 2.
- Mowat, John F., and G. P. Wardley, Joliet, Ill. Insulating walls. 1,701,587; Feb. 12.
- Mowbray, James W., assignor to C. E. Wisner, Detroit, Mich. Oil burner. 1,720,374; July 9.
- Mowery, LeRoy D. (See Hauserman, E. F., Mowery, and Bohnsack.)
- Mowery, Leroy D. (See Hauserman, E. F., Mowery, McClenaghan, and Murrell.)
- Mowl, George M., Monessen, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Pack-opening machine. 1,724,849; Aug. 13.
- Mowrey, Henry M., assignor to The United Chicle Company, Toledo, Ohio. Making gum. 1,711,281; Apr. 30.
- Mowry, Adelbert F., Worcester, Mass. Fabric-clamping clip. 1,738,111; Dec. 3.
- Mowry, Edward, Rock Falls, Ill., assignor to International Harvester Company. Tractor disk harrow. 1,718,796; June 25.
- Mowry, Edward, Rock Falls, Ill., assignor to International Harvester Company. Tractor disk harrow. 1,718,797; June 25.
- Mowry, Edward, Rock Falls, assignor to International Harvester Company, Chicago, Ill. Caster-wheel-controlling device for side-delivery rakes. 1,734,393; Nov. 5.
- Mowry, Edward, Rock Falls, Ill., and J. R. Barker, Fall Brook, Calif., assignors to International Harvester Company. Tractor disk harrow. 1,725,409; Aug. 20.
- Mowry, Edward S., deceased, by M. B. Mowry, executrix, assignor to Wilcox, Crittenden and Company, Incorporated, Middletown, Conn. Ladder. 1,725,367; Aug. 20.
- Mowry, Harold B., Sterling, Conn. Marking materials. 1,710,487; Apr. 23.
- Mowry, Lorenz J., Elyria, assignor of one-half to G. I. Stine, Fremont, Ohio. Awning bracket. 1,699,246; Jan. 15.
- Mowry, Mary B., executrix. (See Mowry, Edward S.)
- Mowczyk, Stella. (See Przybyszewski, Stanley, assignor.)
- Moxham, Arthur J., Odessa, Del., assignor to Electro Company. Producing iron-free potash alum from solutions containing ferric sulphate. 1,732,611; Oct. 22.
- Moxham, Arthur J., Great Neck, N. Y., assignor, by mesne assignments, to J. P. Laffey, trustee, Wilmington, Del. Treating greensand and the like. 1,737,263; Nov. 26.
- Moxley, Claud, Ford City, Pa., assignor to Pittsburgh Plate Glass Company. Heat-exchange roll. 1,724,676; Aug. 13.
- Moxley, William M., Marceline, Mo. Motor for windshield wipers. 1,709,682; Apr. 16.
- Moxley, William M., Marceline, Mo. Automatic control mechanism for motor vehicles. 1,724,503; Aug. 13.
- Moya, Ramon G., Cornell de Liobregat, Spain. Shutterless loom. 1,715,468; June 4.
- Moya, Ramon G., Cornell de Liobregat, Spain. Weft stop motion for shuttleless looms. 1,721,030; July 16.
- Moye, Berth W. (See Loyd, R. W., and Moye.)
- Moyer, Fred W., and F. J. Reninger, assignors to The Aldrich Pump Company, Allentown, Pa. Pump plunger. 1,731,147; Oct. 8.
- Moyer, Fredella H., Canton, Ohio. Steel joists. 1,727,893; Sept. 10.
- Moyer, Fredella H., Canton, Ohio. Bar-web-bending machine. 1,727,894; Sept. 10.
- Moyer, Fredella H., Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y. Forging axles. 1,736,321; Nov. 19.
- Moyer, Harry J., Chicago, Ill. Blow-off valve. 1,728,077; Sept. 10.
- Moyer, James H., assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Carding device for artificial teeth. 1,721,526; July 23.
- Moyer, James M., and H. C. Kofod, Yuma, Colo. Weeding knife. 1,697,016; Jan. 1.
- Moyer, Wendell W. (See Adams, R., and Moyer.)
- Moyers, Glenn L., St. Clair Shores, and E. A. Abraham, assignors to Monarch Governor Co., Detroit, Mich. Governor. 1,733,424; Oct. 29.
- Moynahan and Duchene, Inc. (See Moynahan, Roy D. B., assignor.)
- Moynahan, Roy D. B., Wyandotte, assignor to Moynahan and Duchene, Inc., Detroit, Mich. Drinking fountain. Des. 78,776; June 18.
- Mraz, Joseph L., Waterbury, Conn. Tubular joint and making same. 1,727,895; Sept. 10.
- Mraz, Joseph L., Waterbury, Conn. Apparatus for making tubular joints. 1,727,896; Sept. 10.
- Mrocka, Paul. (See Walasky, L. and Mrocka.)
- Mross, Edward, assignor to Hamilton Beach Mfg. Co., Racine, Wis. Vacuum-cleaner nozzle-adjusting means. 1,733,384; Oct. 29.
- Mross, Edward R. (See Robinson, P. H., Nielsen, and Mross.)
- Mucher, George J., Troy, N. Y. Resistance. 1,701,386; Feb. 5.
- Muchnic, Henry E., Atchison, Kans. Railway crossing. Re17,190; Jan. 8.
- Muchnic, Henry E., Atchison, Kans. Rail joint. 1,709,143; Apr. 16.
- Muchnic, Henry E., Atchison, Kans. Ring. 1,718,758; June 25.
- Muchnic, Henry E., assignor to The Locomotive Finished Material Company, Atchison, Kans. Railway-crossing pavement. 1,703,686; Feb. 26.
- Muchnic, Henry E., assignor to The Locomotive Finished Material Company, Atchison, Kans. Locomotive driving box. 1,717,618; June 18.
- Muchnic, Henry E., assignor to The Locomotive Finished Material Company, Atchison, Kans. Railway-crossing pavement. 1,725,410; Aug. 20.
- Muchnic, Henry E., assignor to Locomotive Finished Material Company, Atchison, Kans. Railway-crossing construction. 1,725,411; Aug. 20.
- Muck, John, assignor of one-half to F. J. Uibel, Milwaukee, Wis. Fountain pen. 1,728,944; Sept. 24.
- Mudd, Garrett W., assignor to Manufacturers Machinery Company, Chicago, Ill. Filling machine. 1,712,775; May 14.
- Mudd, Garrett W., assignor, by mesne assignments, to Manufacturers Machinery Company, Chicago, Ill. Hair-curling machine. 1,719,599; July 9.



- Mudd, Garrett W., assignor to Manufacturers Machinery Company, Chicago, Ill. Tube-cutting machine. 1,740,430; Dec. 17.
- Mudge, William A., Vineland, N. J. Soot-dumping installation for brooder heaters. 1,719,900; July 9.
- Muehlberg, Karl O., Manitowoc, Wis. Tube coupling. 1,740,664; Dec. 24.
- Muehlenbeck, Fred P., assignor to Opalite Corporation, Chicago, Ill. Glass letter plate. 1,701,241; Feb. 5.
- Muehlhof, Henry E. (See Carl, H. H., and Muehlhof.)
- Muelberger, Walter, Maplewood, N. J., assignor to Nathan & Cohen Co. Inc., New York, N. Y. Textile fabric. Des. 77,494; Jan. 15.
- Muelberger, Walter, Maplewood, N. J., assignor to Nathan & Cohen Co. Inc., New York, N. Y. Textile fabric. Des. 77,495; Jan. 15.
- Mueller, Adelbert O., Presheo, S. Dak. Device for supporting branches of trees. 1,718,971; July 2.
- Mueller, Adolph, trustee. (See Lawton, Alfred V., assignor.)
- Mueller, Adolph, trustee. (See Mueller, Lucien W., assignor.)
- Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
- Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
- Mueller, Adolph, trustee. (See Mueller, Robert H., assignor.)
- Mueller, Arthur W., Cincinnati, Ohio. Cutting machine. 1,722,476; July 30.
- Mueller, August, Pittsburgh, Pa. Airship. 1,716,597; June 11.
- Mueller Brass Co. (See Irving, P., Lindquist, Eusey, and Mueller, assignors.)
- Mueller, Bruno A. (See Garankin, Theodore P., assignor.)
- Mueller, Charles L., San Rafael, Calif. Can closure. 1,727,247; Sept. 3.
- Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Sewing-machine frame. Des. 79,780; Oct. 29.
- Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Plunger mechanism for blindstitch sewing machines. 1,715,562; June 4.
- Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Work presenting mechanism for blindstitch sewing machines. 1,726,448; Aug. 27.
- Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Needle-shogging mechanism. 1,734,822; Nov. 5.
- Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Lining-felling machine. 1,739,080; Dec. 10.
- Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blindstitch sewing machine. 1,739,081; Dec. 10.
- Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blindstitch felling machine. 1,740,901; Dec. 24.
- Mueller, Christian R., Highland Park, Mich. Electric plug attachment. 1,716,001; June 4.
- Mueller Co. (See Mayhew, Joseph R., assignor.)
- Mueller Co. (See Mueller, Philip, assignor.)
- Mueller Co. (See Reedy, Emmett M., assignor.)
- Mueller, Emil M., assignor to C. P. Goerz American Optical Company, New York, N. Y. Camera. 1,738,511; Oct. 29.
- Mueller Engineering Works. (See Mueller, Joseph J., assignor.)
- Mueller, Frank, Kankakee, Ill. Piston ring and piston. 1,737,056; Nov. 26.
- Mueller, Frank J., Edgewater, N. J. Film-handling apparatus. 1,723,950; Aug. 6.
- Mueller, Frederick B. (See Bott, G. R., and Mueller.)
- Mueller, Frederick O., assignor to Burroughs Adding Machine Company, Detroit, Mich. Calculating machine. 1,715,170; May 28.
- Mueller, Godfrey A., Point Place, assignor to The De Vilbiss Company, Toledo, Ohio. Spray head. 1,731,497; Oct. 15.
- Mueller, Godfrey A., Point Place, assignor to The De Vilbiss Company, Toledo, Ohio. Spray head. 1,731,498; Oct. 15.
- Mueller, Godfrey A., Point Place, assignor to The De Vilbiss Company, Toledo, Ohio. Spray head. 1,736,356; Nov. 19.
- Mueller, Godfrey A., Point Place, and R. W. Tracy, assignors to The De Vilbiss Company, Toledo, Ohio. Spray head. 1,732,691; Oct. 22.
- Mueller, Henry A., assignor to Aktiebolaget Ferriconcentrat, Stockholm, Sweden. Enriching iron ore, blast-furnace fine dust, burnt pyrite, purple ore, and the like. 1,738,603; Dec. 10.
- Mueller, Herman C., Milwaukee, Wis. Sound-reproducing device. 1,716,458; June 11.
- Mueller, John. (See Lasker, W. W., and Mueller.)
- Mueller, John G., Dayton, Ohio. Rail brace. 1,702,390; Feb. 19.
- Mueller, John G., Dayton, Ohio. Rail brace. 1,732,766; Oct. 22.
- Mueller, John G., Dayton, Ohio. Rail brace. 1,733,009; Oct. 22.
- Mueller, John G., Dayton, Ohio. Rail brace. 1,733,100; Oct. 22.
- Mueller, John H. (See Pender, H., and Mueller.)
- Mueller, Joseph J., assignor to Mueller Engineering Works, Racine, Wis. Gasoline-tank cap. 1,734,527; Nov. 5.
- Mueller, Katherine M., executrix. (See Bott, G. R., and Mueller.)
- Mueller, L. J., Furnace Company. (See Jones, Edwin A., assignor.)
- Mueller, Lucien W., assignor to A. Mueller, trustee, Decatur, Ill. Valve for built-in plumbing fixtures. 1,714,802; May 28.
- Mueller, Max, Newark, and R. M. Blakeley, Highland Park, N. J., assignors, by mesne assignments, to Acetol Products, Inc. Bottle-sealing machine. 1,708,429; Apr. 9.
- Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kiln Company, Portland, Ore. Controlling the temperature of drying chambers. 1,731,315; Oct. 15.
- Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kiln Company, Portland, Ore. Drying lumber. 1,736,213; Nov. 19.
- Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kiln Company, Portland, Ore. Moisture tester. 1,736,505; Nov. 19.
- Mueller, Oscar B. (See Irving, P., Lindquist, Eusey & Mueller.)
- Mueller, Paul M. (See Hoagland, F. O., Mueller, and Lindstrom.)
- Mueller, Paul M., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Relieving mechanism for lathes. 1,700,327; Jan. 29.
- Mueller, Paul M., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Precision threading lathe. 1,718,480; June 25.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Cork-lined gasoline bibb. 1,700,207; Jan. 29.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Porcelain or enamel-iron soap cup. 1,701,690; Feb. 12.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Washtrey fitting. 1,701,692; Feb. 12.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Porcelain soap dish. 1,709,144; Apr. 16.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Service box. 1,714,803; May 28.
- Mueller, Philip, assignor, by mesne assignments, to Mueller Co., Decatur, Ill. Pipe coupling. 1,738,915; Dec. 10.
- Mueller, Philip, and A. C. Schuermann, deceased, H. Schuermann, executrix, assignors to A. Mueller, trustee, Decatur, Ill. Method of and apparatus for inserting corporation cocks. 1,701,691; Feb. 12.
- Mueller, Richard W., assignor, by mesne assignments, to Kerotest Manufacturing Company, Pittsburgh, Pa. Valve and valve gate therefor. 1,703,161; Feb. 26.
- Mueller, Richard W., assignor to Kerotest Manufacturing Company, Pittsburgh, Pa. Fire-protective means for wells. 1,703,162; Feb. 26.
- Mueller, Robert A. (See Gray, E., and Mueller.)
- Mueller, Robert H., assignor to A. Mueller, trustee, Decatur, Ill. Coupling for corporation stops. 1,710,267; Apr. 23.
- Mueller, Robert H., assignor to A. Mueller, trustee, Decatur, Ill. Waste pipe for lavatories and sinks and manufacturing the same. 1,719,019; July 2.
- Mueller, Rudolph, Chicago, Ill. Faucet. 1,698,961; Jan. 15.
- Mueller, Werner. (See Reddelien, G., and Mueller.)
- Mueller, William A., Washington, D. C. Sash and door bolt. 1,731,680; Oct. 15.
- Muench, August A., Camden, N. J. Resilient tire. 1,732,854; Oct. 22.
- Muench, Walter, Brooklyn, N. Y. Protractor. 1,699,619; Jan. 22.
- Muenchen, Peter J., New York, N. Y., assignor to Arctic Refrigeration Manufacturing Corporation, Wilmington, Del. Refrigerating vessel. 1,721,311; July 16.
- Muenchen, Peter J., New York, N. Y., assignor to Arctic Refrigeration Manufacturing Corporation, Wilmington, Del. Refrigerating system. 1,721,312; July 16.
- Muend, Charles J., assignor to Hajoca Corporation, Philadelphia, Pa. Waste and overflow fixtures for bathtubs. 1,704,510; Mar. 5.
- Mueninghaus, George W., St. Louis, Mo. Hairdressing appliance. 1,700,375; Jan. 29.
- Muentener, Christian, Bogota, N. J. Textile fabric or similar article. Des. 79,837; Nov. 5.
- Muentener, Christian, Bogota, N. J. Textile fabric or similar article. Des. 79,838; Nov. 5.
- Muentener, Christian, Bogota, N. J. Textile fabric or similar article. Des. 79,839; Nov. 5.
- Muentener, Christian, Bogota, N. J. Textile fabric or similar article. Des. 79,896; Nov. 12.
- Muentener, Christian, Bogota, N. J. Textile fabric or similar article. Des. 79,897; Nov. 12.
- Muentener, Christian, Bogota, N. J. Textile fabric or similar article. Des. 79,898; Nov. 12.
- Muffett, Robert B., Ridgefield, Wash. Excavating machine. 1,736,661; Nov. 19.
- Muffy, Glenn, Detroit, Mich. Thermostatic switch. 1,704,141; Mar. 5.
- Muffy, Glenn, Detroit, Mich. Control for electric circuits. 1,721,163; July 16.
- Muffy, Glenn, assignor to Copeland Products, Incorporated, Detroit, Mich. Refrigerator cabinet. 1,703,318; Feb. 26.
- Muffy, Glenn, Detroit, Mich., assignor to Copeland Products, Inc. Forming refrigerator elements. 1,709,865; Apr. 23.
- Muffy, Glenn, Detroit, Mich., assignor to Copeland Products, Inc. Regulating mechanism. 1,719,073; July 2.



- Muffy, Glenn, Detroit, Mich., assignor to Copeland Products, Inc. Regulating mechanism. 1,719,074; July 2.
- Muffy, Glenn, and H. S. Pierce, assignors to Copeland Products, Inc., Detroit, Mich. Regulating mechanism. 1,719,075; July 2.
- Mugdan, Martin, and J. Wimmer, Munich, Germany, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Production of butyric aldehyde. 1,730,587; Oct. 8.
- Muggli, Jakob, Zurich, Switzerland, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,739,729; Dec. 17.
- Mugler, Charles M., Los Angeles, Calif. Game. 1,726,115; Aug. 27.
- Mugler, Herman A., Lynbrook, N. Y. Sheet-metal structure. 1,708,394; Apr. 9.
- Mugler, Herman A., Lynbrook, N. Y. Multiple automobile pit. 1,722,818; July 30.
- Muheim, Joseph F., assignor to The Esmond Mills, Esmond, R. I. Loom and process of weaving. 1,728,357; Sept. 17.
- Muhlback, Alfred J., South Pasadena, assignor to The Boyle Manufacturing Company, Inc., Los Angeles, Calif. Making metallic casks. 1,740,196; Dec. 17.
- Muhlberg, Otto F., Coalspur, Alberta, Canada. Spark arrester. 1,709,916; Apr. 23.
- Muhleisen, Henry W., Los Angeles, Calif. Brake construction. 1,699,155; Jan. 15.
- Muhleisen, Karl, assignor to Schutte and Koerting Company, Philadelphia, Pa. Pipe-supporting means. 1,704,097; Mar. 5.
- Muhlestein, Enoch. (See Dunn, E. F., and Muhlestein.)
- Muhlfeld, John E., Scarsdale, N. Y. Baffle wall. Re17,449; Oct. 1.
- Muhlfeld, John E., Scarsdale, N. Y. Steam locomotive. 1,704,142; Mar. 5.
- Muhlfeld, John E., Scarsdale, N. Y. Steam locomotive. 1,704,143; Mar. 5.
- Muhlfeld, John E., Scarsdale, N. Y. Locomotive engine. 1,712,630; May 14.
- Muhlfeld, John E., Scarsdale, and V. Z. Caracristi, Bronxville, assignors, by mesne assignments, to Lopuloc Systems, Inc., New York, N. Y. Furnace. 1,697,688; Jan. 1.
- Muhlfelder, Samuel, et al. (See Phillips, Ross M. G., assignor.)
- Muir, James A., Detroit, Mich., assignor to Thomson Electric Welding Company, Lynn, Mass. Mechanically-operated butt welder. 1,736,617; Nov. 19.
- Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Cooling internal-combustion engines. 1,700,270; Jan. 29.
- Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Cooling system. 1,703,163; Feb. 26.
- Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Cooling system. 1,703,164; Feb. 26.
- Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Automobile radiator. 1,705,026; Mar. 12.
- Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Cooling system for internal-combustion engines. 1,710,268; Apr. 23.
- Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Anchorage for automobile radiators. 1,737,057; Nov. 26.
- Muir, William F., Alameda, Calif. Fireplace. 1,740,996; Dec. 24.
- Muire, Elwin S. (See Raines, Edwin H., assignor.)
- Muirhead, David P. (See Muirhead, James and D. P.)
- Muirhead, James and D. P., Glasgow, Scotland. Air extractor for vehicles or buildings. 1,728,001; Sept. 10.
- Mujica, José L., East Orange, N. J. Electroplating apparatus. 1,712,674; May 14.
- Mulcahy, Philip F., and W. C. Coony, New York, N. Y. Automobile theft-preventing device. 1,739,083; Dec. 10.
- Mulch, William E., Williams, Nebr. Automatic railroad-crossing gate. 1,722,337; July 30.
- Mulder, Jakob, and D. C. Endert, jr., Rotterdam, Netherlands. Apparatus for removing liquid residues from tanks, pipe systems, and the like. 1,713,910; May 21.
- Mulder, Jakob, and D. C. Endert, jr., Rotterdam, Netherlands. Removing liquid residues from tanks and pipe systems. 1,713,911; May 21.
- Mulder, Johannes G. W. (See Dobben, P. W., Mulder, and Oosterhuis.)
- Muldoon, Bernard F., Mountainview, N. J., assignor to H. Hyman, Brooklyn, N. Y. Electric-light socket. Des. 80,102; Dec. 10.
- Muldoon, Bernard F., Mountain View, N. J., assignor to H. Hyman, Brooklyn, N. Y. Electric cigar lighter. 1,719,942; July 9.
- Mulholland, Thomas, assignor to Valley Rubber Company, Wheeling, W. Va. Machine for cross-shearing rubber strips. 1,699,985; Jan. 22.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for annealing glassware. Re17,363; Apr. 9.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for annealing sheet glass. 1,698,479; Jan. 8.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for annealing glassware. 1,698,480; Jan. 8.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for annealing glassware. 1,735,353; Nov. 12.
- Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for annealing glassware. 1,736,322; Nov. 19.
- Mulholland, William J. (See Engles, John F., assignor.)
- Mulkey, Vaughn D., Oakland, Calif. Mattress. 1,709,995; Apr. 23.
- Mullan, Charles J. (See Le Claire, Eugene J., assignor.)
- Mullaney, Dudley A., and J. F. Hendry, Schenectady, N. Y., assignors to General Electric Company. Electrode for vacuum tubes. 1,721,405; July 16.
- Mullen, Albert E., New York, N. Y. Toilet-accessory container. Des. 77,622; Jan. 29.
- Mullen, Albert E., New York, N. Y. Container. 1,700,445; Jan. 29.
- Mullen, Albert E., New York, N. Y. Container. 1,701,860; Feb. 12.
- Mullen, Charles A., Montreal, Quebec, Canada. Apparatus for manufacturing pavement. 1,733,198; Oct. 29.
- Mullen, Charles A., Montreal, Quebec, Canada, assignor, by mesne assignments, to Amiesite Asphalt Company of America, Philadelphia, Pa. Pavement and manufacturing the same. 1,705,333; Mar. 12.
- Mullen, Charles P., Conshohocken, Pa. Eaves-trough support. 1,706,458; Mar. 26.
- Mullen, Clyde A., Asbury Park, N. J. Overload indicator for measuring instruments. 1,732,338; Oct. 22.
- Mullen, Dennis W., Brockton, Mass. Self-feeding bottle for liquid polishes and the like. 1,705,450; Mar. 12.
- Mullen, Edwin J., New Rochelle, assignor to General Chemical Company, New York, N. Y. Burning sulphur and burner therefor. 1,720,742; July 16.
- Mullen, Fred L. (See Klahn, E., and Mullen.)
- Mullen, George W., Flushing, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Apparatus for preserving. 1,709,481; Apr. 16.
- Mullen, Ralph E. (See Sullivan, L. C., and Mullen.)
- Mullenax, Claude et al. (See Pettit, James C., assignor.)
- Mulender, Thomas. (See Love, George S., assignor.)
- Müller, Albert, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,715,716; June 4.
- Müller, August, deceased; E. Wyss, administrator; assignor to the firm Elektro-Hammer A. G., Bern, Switzerland. Percussive tool. 1,708,451; Apr. 9.
- Müller, C. H. F., Röntgen-röhrenfabrik. (See Engels, Rudolf, assignor.)
- Müller, Carl. (See Mittasch, A., Müller, Schlecht, and Schubardt.)
- Müller, Carl, Brooklyn, N. Y. Safety attachment for gas cocks. 1,708,395; Apr. 9.
- Müller, Carl, Charlottenburg, Germany. System for selecting rays of different wave lengths from a source thereof. 1,727,173; Sept. 3.
- Müller, Carl, Charlottenburg, near Berlin, assignor to K. Mey, Berlin, Germany. Manufacture of thin metallic foils. 1,709,801; Apr. 16.
- Müller, Carl, Mannheim, and F. Krägeloh, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of ammonia from its elements. 1,727,174; Sept. 3.
- Müller, Carl E. (See Fischer, E., and Müller.)
- Müller, Carl J. (See Thiess, K., Müller, and Hoffa.)
- Müller, Carl J. (See Thiess, K., Müller, Schirmacher, and Zahn.)
- Muller, Charles A., Brooklyn, N. Y. Internal-combustion engine and supplying it with air. 1,716,278; June 4.
- Müller-Cunradi, Martin, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of iron carbonyl. 1,725,619; Aug. 20.
- Müller-Cunradi, Martin, Ludwigshafen-on-the-Rhine, and A. Kossuth, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Stable iron carbonyl compositions and their manufacture. 1,722,076; July 23.
- Müller-Cunradi, Martin, Ludwigshafen-on-the-Rhine, and G. Lechner, Heidelberg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Esters of silicic acid. 1,725,620; Aug. 20.
- Muller, Emil A., New York, N. Y. Electrical attachment plug handle cap. Des. 79,741; Oct. 29.
- Müller, Fred W., Hoboken, N. J., assignor of one-half to C. H. Whitenack, Sea Cliff, N. Y. Self-lubricating bearing. 1,740,197; Dec. 17.
- Müller, Friedrich, Vienna, Austria. Arrangement for facilitating the starting of internal-combustion engines. 1,739,084; Dec. 10.
- Müller, Friedrich, assignor to The Whitney Manufacturing Company, Hartford, Conn. Chain. 1,709,802; Apr. 16.
- Müller, Fritz. (See Burckhardt, E., Müller, and Rothlin.)
- Müller, Fritz. (See Hoffa, E., Heyna, and Müller.)
- Müller, Fritz. (See Rothlin, E., and Müller.)
- Müller, Fritz. (See Hoffa, E., and Müller.)
- Müller, Fritz. (See Wagner, H., Brune, Hessenland, Hoffa, Müller, and Heyna.)
- Muller, George W., Washington, D. C. Railway-rail-joint bar. 1,723,248; Aug. 6.
- Muller, George W., Washington, D. C., assignor to Muller Railway Track Systems, Incorporated, Wilmington, Del. Bar plate or rail-joint bar. 1,720,372; July 9.
- Müller, Gerhard. (See König, A., and Müller.)



- Muller, Gertrude A., assignor to The Juvenile Wood Products, Inc., Fort Wayne, Ind. Child's stepladder. Des. 78,040; Mar. 19.
- Müller, Heinrich, Nuremberg, Germany. Toy. 1,738,604; Dec. 10.
- Müller, Heinrich, Waidmannslust, Berlin, Germany, assignor to General Electric Company. Inclosed dynamo-electric machine. 1,725,667; Aug. 20.
- Müller, Heinrich J., Schaffhausen, Switzerland. Couch having a divided reclining surface. 1,701,588; Feb. 12.
- Muller, Herman and A. Nafziger, Coraopolis, Pa. Pie or cake pan. 1,708,797; Apr. 9.
- Müller, Hermann, assignor to firm J. R. Geigy, S. A., Basel, Switzerland. Dyeing and printing. 1,717,242; June 11.
- Müller, Hermann A., Schmiedefeld, Germany. Ethyl-chloride tube. 1,697,731; Jan. 1.
- Müller, Jens. (See Hoffa, E., and Müller.)
- Müller, Jens. (See Hoffa, E., Brune, and Müller.)
- Müller, Jens, Hanau-on-the-Main, and M. Schubert, Fechenheim, near Frankfurt-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Manufacturing 1,8-naphthoxypenthiophen compounds. 1,709,277; Apr. 16.
- Müller, Johann C. (See Voight, Robert W., assignor.)
- Müller, Johannes. (See Meyer, K. H., Müller, and Hoffmann.)
- Müller, John P., New Rochelle, N. Y. Balance beam. 1,719,901; July 9.
- Müller, Karl, Frankfurt-on-the-Main-Enkheim, Germany. Photographic spring camera. 1,718,173; June 18.
- Müller, Karl, Essen-on-the-Ruhr, Germany. Electric contact. 1,726,913; Sept. 3.
- Müller, Karl, and W. Sander, Essen, Germany. Bearing-metal alloy. 1,731,021; Oct. 8.
- Müller, Karl J. (See Wilhelm, F., and Müller.)
- Muller, Lewis J., Philadelphia, assignor of one-half to A. L. Rowland, Oak Lane, Pa. Table. 1,701,930; Feb. 12.
- Muller, Martha, Saratoga Springs, N. Y. Figure unit for dancing figure toys. 1,721,186; July 16.
- Muller, Oscar F., Montclair, N. J., assignor to Nyanza Color & Chemical Co. Inc., New York, N. Y. Delustering of artificial-silk fibers or rayon. 1,705,490; Mar. 19.
- Müller, Paul, Solingen, Germany. Razor-stropping means. 1,739,167; Dec. 10.
- Muller Railway Track Systems, Incorporated. (See Muller, George W., assignor.)
- Muller, Robert S., Montreal, Quebec, Canada. Awning. 1,699,670; Jan. 22.
- Muller, Robert S., Montreal, Quebec, Canada, assignor to Airlite Awnings Corporation, New York, N. Y. Awning. 1,702,664; Feb. 19.
- Müller, Rudolf. (See Kalischer, G., and Müller.)
- Müller, Stefan. (See Trippel-Fürst, Alexander, assignor.)
- Muller-Thym, Bernard, Kansas City, Mo. Wick and making same. 1,719,679; July 2.
- Muller, Victor, Strasbourg, France. Receptacle-filling machine. 1,697,201; Jan. 1.
- Müller, Werner. (See Reddelien, G., and Müller.)
- Müller, Wilhelm, and E. Appenzeller, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. 4'-halogen-2-benzoylbenzoic acid intermediates. 1,699,671; Jan. 22.
- Mulligan, James A., assignor to Southern Textile Machinery Company, Paducah, Ky. Sewing machine. 1,725,819; Aug. 27.
- Mulligan, Leonard A., assignor to Joseph N. Smith & Company, Detroit, Mich. Windshield-adjusting device. 1,702,793; Feb. 19.
- Mulligan, Paul C., assignor, by mesne assignments, to Dual Lubricator Co., Seattle, Wash. Regulating valve. 1,719,191; July 2.
- Mullinnix, John C. (See Brown, J. R., and Mullinnix.)
- Mullins, Frank P. (See Gilson, Dayton H., assignor.)
- Mullins Lumber Company. (See Schoolfield, Henry O., assignor.)
- Mullins, Michael, Tulsa, Okla. Weatherproofing for window casings, etc. 1,701,791; Feb. 12.
- Mullins, Robert T., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Football helmet. 1,698,769; Jan. 15.
- Mullins, Robert T., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Shoulder pad. 1,709,184; Apr. 16.
- Mullins, Robert T., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Head guard. 1,714,275; May 21.
- Mulroy, John T., Brooklyn, N. Y. Fire-fighting appliance. 1,720,427; July 9.
- Multer, Hugh J. (See Gard, E. W., Aldridge, and Multer.)
- Multiple Selling Corporation. (See Moore, Robert A., assignor.)
- Multipost Company. (See Gay, Azel, assignor.)
- Mulvany, Harry A., assignor to Electric Sales Service Co., San Francisco, Calif. Electric water heater. 1,712,931; May 14.
- Mulvany, Harry A., assignor to National Appliance Corporation, San Francisco, Calif. Electric cooker. 1,712,932; May 14.
- Mulvany, Harry A., Berkeley, assignor to Electric Sales Service Company, San Francisco, Calif. Wall-insert electric heater. 1,720,373; July 9.
- Mulvany, Harry A., and H. E. Kennedy, Berkeley, Calif. Sand-blasting machine. 1,738,958; Dec. 10.
- Mumford, Albert R., Bogota, N. J., assignor to The New York Steam Corporation, New York, N. Y. Separator. 1,728,877; Sept. 17.
- Mumford, Anson W., St. Petersburg, Fla. Fireplace shutter and screen. 1,726,854; Sept. 3.
- Mumford, Lorenzo M., and R. F. Miller, Bolivar, Pa. Brick-engobing machine. 1,714,186; May 21.
- Mumford, Walter S., Philadelphia, Pa. Spin pot and actuating mechanism therefor. 1,732,526; Oct. 22.
- Mumford, Walter S., Philadelphia, Pa. Spin-pot driving mechanism and motor casing therefor. 1,732,907; Oct. 22.
- Mumm, Bernard J. (See Mumm, Bernard J. and B. J.)
- Mumm, Bernard J. and B. J., St. Paul, Minn.; said Bernard J. Mumm assignor to said B. J. Mumm. Sausage casing and producing the same. 1,699,076 Jan. 15.
- Mumma, Clarence M. (See Mumma, Clark E. and C. M.)
- Mumma, Clark E. and C. M., Haviland, Ohio. Tile-making machine. 1,714,614; May 28.
- Mumma, George R., Dayton, Ohio. Quick-action float valve. 1,725,820; Aug. 27.
- Mummert, Arden J., University City, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Manufacturing split rings. 1,693,481; Jan. 8.
- Mummert, Arden J., University City, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Manufacturing piston rings. 1,710,064; Apr. 23.
- Mummert, Calvin J. (See Rodler, Hilmer F., assignor.)
- Mummert, Harvey C., Hollis, assignor to Curtiss Aeroplane & Motor Co., Inc., Garden City, N. Y. Radiator for aeroplanes. 1,714,804; May 28.
- Münch, Eduard. (See Schumann, C., Münch, Schlichting, and Christ.)
- Münch, Eduard, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Vaporizing formamid. 1,735,407; Nov. 12.
- Munch, Edwin L., Atlanta, Ga. Wardrobe holder. 1,726,627; Sept. 3.
- Münch, Siegmart, Wolfen, Kreis Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt, Germany. Manufacture of articles from molten carbon. 1,736,832; Nov. 26.
- Muncy, John A., et al. (See Lang, Charles E., assignor.)
- Munday, Horace D., Schenectady, N. Y. Truing device. 1,727,112; Sept. 3.
- Munday, Reginald L., Bath, England. Diaphragm pump. 1,711,803; May 7.
- Munden, Isaac W., Tampa, Fla. Wheel-aligning gauge. 1,701,050; Feb. 5.
- Mundstock, Harold C., Highland Park, H. P. Falvey, and W. W. Garrison, Chicago, Ill., assignors to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Pencil. Des. 78,777; June 18.
- Mundwiler, Glen, Toledo, Ohio. Building. Des. 79,977; Nov. 26.
- Mundy, Clinton L., Newark, N. J. Hoisting gear. 1,727,724; Sept. 10.
- Mundy, Frederick J., Penarth, Wales, and C. Solomon, Bath, England. Motor lorry and other road or rail vehicle for conveying goods. 1,722,106; July 23.
- Mundy, James W. (See Bubb, L. P., and Mundy.)
- Munford, Walter F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Wire rope. 1,730,741; Oct. 8.
- Munger, Francis, Minneapolis, Minn. Sustained-tone piano. 1,741,948; Dec. 31.
- Mungo, Peter, Cicero, Ill. Saw for iron. 1,710,549; Apr. 23.
- Munifield, John E., and V. Z. Caracristi, Scarsdale, assignors, by mesne assignments, to Lopulco Systems, Inc., New York, N. Y. Burning fuel in furnaces. 1,697,689; Jan. 1.
- Munnerley, Reuben, Los Angeles, Calif. Mail-bag catching and delivering apparatus. 1,740,109; Dec. 17.
- Munro, Alexander L., assignor to Smith Engineering Works, Milwaukee, Wis. Vibratory screen. 1,730,435; Oct. 8.
- Munro-Spencer, Phyllis M. R., Hove, England. Golf-club head. Des. 79,684; Oct. 22.
- Munroe, Treadway B., and E. C. Lathrop, Chicago, Ill.; said Lathrop assignor to said Munroe. Preservation of fibers for pulp-making purposes. 1,739,645; Dec. 17.
- Munroe, Treadway B., and W. Waterfall, Chicago, Ill.; said Waterfall assignor to said Munroe. Sound-absorbing chamber. 1,705,778; Mar. 19.
- Munsch, Louis F. (See Grube, J. R., and Munsch.)
- Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Metal-working machine. 1,714,566; May 28.
- Munschauer, Frederick E., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Holddown mechanism for shearing machines. 1,722,819; July 30.
- Munsingwear Corporation. (See Chatfield, Franklin, assignor.)
- Munson Auto Lock Tile Company. (See Munson, Luther S., assignor.)
- Munson, Cooper C., Los Angeles, Calif. Fire extinguisher. 1,740,665; Dec. 24.
- Munson, Joseph J., Baton Rouge, La. Centrifugal machine. 1,703,404; Feb. 26.
- Munson, Luther S., assignor to Munson Auto Lock Tile Company, Washington, D. C. Building block. Re17,291; May 7.



- Munson, Sweney, Scammon, Kans. Air regulator and windshield adjuster. 1,708,845; Apr. 9.
- Munson, Willis R., Fort Wayne, and J. Q. Shipley, Warren, assignors to F. C. Zieg, Fort Wayne, Ind. Battery-cell extractor. 1,736,506; Nov. 19.
- Munters, Carl G. (See von Platen, B. C., and Munters.)
- Munters, Carl G. (See von Platen, B. C., Munters, and Bäckström.)
- Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,711,804; May 7.
- Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigerating apparatus of the absorption type. 1,729,355; Sept. 24.
- Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigerator. 1,729,625; Oct. 1.
- Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,736,288; Nov. 19.
- Munters, Carl G., Stockholm, and J. G. Tandberg, Lund, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,738,720; Dec. 10.
- Munz, Elmer G., Detroit, Mich. Apparatus for irrigating golf greens. 1,710,888; Apr. 30.
- Münz, Friedrich, Stuttgart, Germany. Appliance for internal-combustion engines. 1,736,662; Nov. 19.
- Münzel, Heinrich. (See Lommel, W., Münzel, Stötter, and Wenk.)
- Münzner, Otto. (See Stein, B., and Münzner.)
- Murai, Teizo, Kyoto, I. Saeki, Osaka, and H. Sato, Kyoto, Japan. Electric singeing machine. 1,740,776; Dec. 24.
- Murakami, Yoshimichi, Oaza, Hiratsuka-Mura, Ebaragori, Tokyo Prefecture, Japan. Blast furnace. 1,735,293; Nov. 12.
- Murakoshi, Fred, San Leandro, Calif. Portable nail stripper. 1,722,820; July 30.
- Murch, Wilfred M., Hamburg, and W. J. Cauwenberg, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Production of vat dyestuffs. 1,734,442; Nov. 5.
- Murdoch, Alexander, jr., Philadelphia, Pa. Thermostatically-controlled mixing device. 1,724,504; Aug. 13.
- Murdoch, Charles A., New York, N. Y. Pump. 1,740,475; Dec. 24.
- Murdoch, James H. C., Halifax, Nova Scotia, Canada. Lifting jack for automobiles. 1,701,242; Feb. 5.
- Murdoch, Sidney A., assignor, by mesne assignments, of one-half to O. E. Kellum and one-half to M. G. Kellum, Los Angeles, Calif. Synchronous driving device. 1,736,323; Nov. 19.
- Muris, Franz. (See Zitscher, A., and Muris.)
- Murlin Manufacturing Company. (See Lindsay, Donald E., assignor.)
- Murnan, Carl J., Indianapolis, Ind. Valve remover. 1,728,695; Sept. 17.
- Murnan, Frederick C., Princeville, Ill. Adjustable cap. 1,714,037; May 21.
- Murnane, Charles J., Cambridge, Mass. Combination vanity and cigarette case. 1,718,481; June 25.
- Murnane, Daniel J., San Mateo, assignor to Non-Pressure Glazing Company, San Francisco, Calif. Sash. 1,697,400; Jan. 1.
- Muros, Joseph, New York, N. Y. Safety razor. 1,716,897; June 11.
- Muros, Joseph, assignor to F. E. Perry, New York, N. Y. Safety razor. 1,734,394; Nov. 5.
- Murphy, Alfred J., Chicago, Ill. Stair-carpet cushioner. 1,721,187; July 16.
- Murphy, Alphonus F., Zanesville, and W. Jones, assignors to The American Rolling Mill Company, Middletown, Ohio. Treating silicon steel. 1,714,038; May 21.
- Murphy, Arthur C., Haverhill, Mass. Last. 1,722,385; July 30.
- Murphy, Charles, Littleton, W. Va. Lock nut. 1,739,410; Dec. 10.
- Murphy, Charles S. (See Julien, Robert P., assignor.)
- Murphy, Clement M., Milwaukee, Wis. Display device. 1,718,828; June 25.
- Murphy, Dan L., Velva, N. Dak., and C. Fickau, Tess Corners, Wis. Corn-harvesting machine. 1,731,259; Oct. 15.
- Murphy, Daniel F., and L. Cotter, Denver, Colo. Electric signaling device for automobiles. 1,729,591; Sept. 24.
- Murphy, Daniel R., and J. C. Krieg, Newark, Ohio. Cow stanchion. 1,709,087; Apr. 16.
- Murphy, Edmund G., Brooklyn, N. Y. Vacuum tube. 1,699,011; Jan. 15.
- Murphy, Edward A. (See Twiss, D. F., and Murphy.)
- Murphy, Edward D., Seattle, Wash. Universal piston ring compressor. 1,702,914; Feb. 19.
- Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Magneto-mechanical driving system. 1,699,115; Jan. 15.
- Murphy, Finis E., Ridgely, Tenn. Lubricating means. 1,697,017; Jan. 1.
- Murphy, Francis P., Nashua, N. H., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe rack. 1,710,940; Apr. 30.
- Murphy, Frank J., Floral Park, assignor to S. W. Farber, Inc., Brooklyn, N. Y. Candy dish or similar article. Des. 79,299; Aug. 27.
- Murphy, G. W. J., Company. (See Bourque, David, assignor.)
- Murphy, G. W. J., Company. (See Cummings, Edward N., assignor.)
- Murphy, George F., Philadelphia, Pa. Making lined piping. 1,712,090; May 7.
- Murphy, George W., et al. (See Dyess, Henry O., assignor.)
- Murphy, George W., Philadelphia, Pa. Apparatus for cementing shoe soles. 1,729,179; Sept. 24.
- Murphy, Gilbert, assignor to Acme Knitting Machine & Needle Company, Franklin, N. H. Knitting machine. 1,728,299; Sept. 17.
- Murphy, Gilbert, and W. A. Simond, assignors to Acme Knitting Machine & Needle Company, Franklin, N. H. Thread-feeding mechanism for knitting machines. 1,728,300; Sept. 17.
- Murphy, Herschel G., Portland, Oreg., and W. V. Gustison, Walla Walla, Wash., assignors to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rake. 1,728,301; Sept. 17.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,703,281; Feb. 26.
- Murphy, Howard J., Reading, Mass., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,714,465; May 21.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,716,501; June 11.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,716,502; June 11.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating system and apparatus. 1,717,166; June 11.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,717,167; June 11.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,718,575; June 25.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,729,959; Oct. 1.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,729,960; Oct. 1.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,731,635; Oct. 15.
- Murphy, Howard J., Reading, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating apparatus. 1,731,787; Oct. 15.
- Murphy, James, Seattle, Wash. Life preserver. 1,704,363; Mar. 5.
- Murphy, James F., Danbury, Conn. Brush. 1,726,161; Aug. 27.
- Murphy, James F., Danbury, Conn. Making hats. 1,732,767; Oct. 22.
- Murphy, James T., Oak Park, Ill. Pulp-preparing apparatus. 1,716,898; June 11.
- Murphy, John D., Chicago, Ill. Window-sash holder. 1,709,482; Apr. 16.
- Murphy, Lewis S., Marion, Ind., assignor to Chicago Railway Equipment Company, Chicago, Ill. Tool-handle construction. 1,726,190; Aug. 27.
- Murphy, Lloyd T., Franklin, Ohio. Process and apparatus for reducing pulp. 1,702,230; Feb. 12.
- Murphy, Lloyd T., Franklin, Ohio. Process and apparatus for reducing pulp or the like. 1,726,756; Sept. 3.
- Murphy, Louis F., Boston, Mass. Eucharistic lamp. Des. 77,650; Feb. 5.
- Murphy, Michael J., Chicago, Ill. Display device. 1,740,520; Dec. 24.
- Murphy, Morton, Rushville, Ind. Electric-heater-element retaining means. 1,697,284; Jan. 1.
- Murphy, Morton, Rushville, Ind. Oven toaster. 1,726,757; Sept. 3.
- Murphy, P. H., Company. (See Bonsall, Charles D., assignor.)
- Murphy, P. H., Company. (See Bonsall, C. D., and Finger, assignors.)
- Murphy, P. H., Company. (See Small, Arthur E., assignor.)
- Murphy, Paul B., Nyack, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,730,981; Oct. 8.
- Murphy, Peter F., Milwaukee, Wis. Machine for applying pasters to folders and the like. 1,732,908; Oct. 22.
- Murphy, Ralph, assignor, by mesne assignments, to Franklin Development Corporation, Syracuse, N. Y. Cylinder construction for air-cooled engines. 1,721,870; July 23.
- Murphy, Robert C. (See Oberholzer, John H., assignor.)
- Murphy, Robert N., assignor of twenty-eight and three-fourths per cent to the estate of James S. Wilson, deceased, and of eleven and one-fourth per cent to H. R. Meredith, Ottawa, Ontario, Canada. Sanitary-trap fitting. 1,740,902; Dec. 24.
- Murphy, Stephen B., Philadelphia, Pa. Windshield heater and wiper. 1,739,411; Dec. 10.
- Murphy, Thomas F., New York, N. Y. Combined table lamp and telephone cabinet. 1,702,614; Feb. 19.
- Murphy, Thomas F., New York, N. Y. Mail box or receptacle. 1,709,363; Apr. 16.



- Murphy, Thomas J., Stamford, Conn. Electricity rectifier. 1,708,678; Apr. 9.
- Murphy, Thomas M. (See Nitz, G. F., and Murphy.)
- Murphy, Walter M., Co. (See Spring, Frank S., assignor.)
- Murphy, William T., St. Louis, Mo. Tobacco stripper. 1,710,376; Apr. 23.
- Murray, Addie P., Detroit, Mich. Making and fitting artificial dentures and articulator therefor. 1,722,806; July 30.
- Murray Company, The. (See Aren, Thomas W., assignor.)
- Murray Company, The. (See Behle, Joseph, assignor.)
- Murray Company, The. (See Campbell, Leon W., assignor.)
- Murray Company, The. (See Hancock, William L., assignor.)
- Murray Company, The. (See Hancock, W. L., and Blewett, assignors.)
- Murray Company, The. (See McDonough, J. H., and Mitchell, assignors.)
- Murray Company, The. (See Mourfield, Carl L., assignor.)
- Murray Company, The. (See Woodford, Bronson C., assignor.)
- Murray Company, The. (See Woodford, B. C., and Behle, assignors.)
- Murray Corporation, The. (See Moesta, Marvin W., assignor.)
- Murray Corporation of America, The. (See Hill, Lewis C., assignor.)
- Murray Corporation of America, The. (See Moesta, Marvin W., assignor.)
- Murray Corporation of America, The. (See Selje, Frederick A., assignor.)
- Murray Corp. of America, The. (See Widman, Charles H., assignor.)
- Murray, Frank G., Chicago, Ill. Coin-sorting mechanism for fare boxes. 1,718,829; June 25.
- Murray, Harry D., Grove City, Pa. Gas-engine control mechanism. 1,700,825; Feb. 5.
- Murray, Henry A., Garrett, Ind. Cleaning, sorting, and weighing machine. 1,702,219; Feb. 12.
- Murray, Howard J., New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Movable signal device. 1,704,709; Mar. 12.
- Murray, Howard J., New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Universal switch mounting. 1,719,778; July 2.
- Murray, Howard J., New York, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Multiplex burglar alarm. 1,720,230; July 9.
- Murray, Howard J., Brooklyn, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Flexible switch control. 1,710,708; Apr. 30.
- Murray, Howard J., Brooklyn, N. Y. Remote-control system. 1,728,187; Sept. 17.
- Murray, Howard J., Brooklyn, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Vehicle signal device. 1,726,994; Sept. 3.
- Murray, Howard J., Brooklyn, assignor to H. Sieben, Hadley, N. Y. Dual-control gas cut-off. 1,736,289; Nov. 19.
- Murray, Howard J., Brooklyn, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Multiple-disk synchronizer. 1,738,788; Dec. 10.
- Murray, Howard J., Brooklyn, N. Y., assignor to R. M. Company, Inc., East Pittsburgh, Pa. Automobile signaling device. 1,740,777; Dec. 24.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, assignors to R. M. Company, Inc., East Pittsburgh, Pa. Direction indicator for automobiles. 1,704,710; Mar. 12.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, assignors to R. M. Company, Inc., East Pittsburgh, Pa. Direction-indicator attachment. 1,719,776; July 2.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, assignors to R. M. Company, Inc., East Pittsburgh, Pa. Circuit closer. 1,719,777; July 2.
- Murray, John C. (See Lewis, W. S., and Murray.)
- Murray, John C., assignor to The Nestle-Le Mur Company, Cleveland, Ohio. Steam curling iron. 1,738,916; Dec. 10.
- Murray, John F., et al., executors. (See Murray, Thomas E.)
- Murray, John J., et al. (See MacBlane, James, assignor.)
- Murray, John J., Arlington, Mass. Card-separating mechanism. 1,741,067; Dec. 24.
- Murray, Joseph B., et al., executors. (See Murray, Thomas E.)
- Murray, Julia M., St. Louis, Mo. Necklace bracelet. 1,704,919; Mar. 12.
- Murray Radiator Corporation. (See Murray, Thomas E., assignor.)
- Murray, Raymond T., and F. M. Kelly, Indianapolis, Ind. Storage-battery plate. 1,697,078; Jan. 1.
- Murray, Scott E., Denver, Colo. Collapsible steel form. 1,734,773; Nov. 5.
- Murray, Thomas E., jr. (See Eilenberg, Theodore R., assignor.)
- Murray, Thomas E. (See Freiday, Jay A., assignor.)
- Murray, Thomas E., jr. (See Hagist, Emil T., assignor.)
- Murray, Thomas E., jr. (See Hill, E. E., and Magalhaes, assignors.)
- Murray, Thomas E. (See Hoffer, Le Roy H., assignor.)
- Murray, Thomas E. (See Holmes, Henry S., assignor.)
- Murray, Thomas E. (See Keenan, Walter M., assignor.)
- Murray, Thomas E. (See Murray, T. E., jr., and Bennet, assignors.)
- Murray, Thomas E. (See Murray, T. E., jr., and Rypinski, assignors.)
- Murray, Thomas E., jr. (See Murray, Thomas E. and T. E., jr.)
- Murray, Thomas E. (See Pettee, Allen D., assignor.)
- Murray, Thomas E., jr. (See Phelps, G. H., and Murray.)
- Murray, Thomas E. (See Rypinski, Albert B., assignor.)
- Murray, Thomas E., jr., et al., executors. (See Murray, Thomas E.)
- Murray, Thomas E., Brooklyn, N. Y. Heat exchanger. Re-17,185; Jan. 1.
- Murray, Thomas E., Brooklyn, N. Y. Making tubular fittings and the like. 1,699,541; Jan. 22.
- Murray, Thomas E., Brooklyn, N. Y. Radiator. 1,699,542; Jan. 22.
- Murray, Thomas E., jr., Brooklyn, N. Y. Metal shingle and the like. 1,700,133; Jan. 29.
- Murray, Thomas E., jr., Brooklyn, N. Y. Sealing device. 1,700,744; Feb. 5.
- Murray, Thomas E., Brooklyn, N. Y. Pump for refrigerants. 1,702,056; Feb. 12.
- Murray, Thomas E., Brooklyn, N. Y. Flexible shaft coupling. 1,702,057; Feb. 12.
- Murray, Thomas E., Brooklyn, N. Y. Superheater. 1,702,058; Feb. 12.
- Murray, Thomas E., jr., Brooklyn, N. Y. Radiator. 1,705,491; Mar. 19.
- Murray, Thomas E., Brooklyn, N. Y. Production of turbine blades. 1,706,703; Mar. 26.
- Murray, Thomas E., Brooklyn, N. Y. Boiler wall. 1,709,088; Apr. 16.
- Murray, Thomas E., jr., Brooklyn, N. Y. Making blanks. 1,709,185; Apr. 16.
- Murray, Thomas E., Brooklyn, N. Y. Radiator. 1,715,378; June 4.
- Murray, Thomas E., Brooklyn, N. Y. Pump for refrigerants and the like. 1,719,825; July 9.
- Murray, Thomas E., Brooklyn, N. Y. Radiator. 1,723,573; Aug. 6.
- Murray, Thomas E., Brooklyn, N. Y. Radiator. 1,726,235; Aug. 27.
- Murray, Thomas E., Brooklyn, N. Y. Radiator. 1,726,711; Sept. 3.
- Murray, Thomas E., Brooklyn, N. Y. Duct-forming device and method. 1,729,356; Sept. 24.
- Murray, Thomas E., Brooklyn, N. Y. Building floors with ducts. 1,730,472; Oct. 8.
- Murray, Thomas E., jr., Brooklyn, N. Y. Production of valves. 1,732,241; Oct. 22.
- Murray, Thomas E. and T. E., jr., Brooklyn, N. Y. Mounting for switches and other electrical apparatus. 1,726,914; Sept. 3.
- Murray, Thomas E., assignor to Murray Radiator Corporation, Brooklyn, N. Y. Radiator. 1,731,472; Oct. 15.
- Murray, Thomas E., jr., and I. T. Bennett; said Bennett assignor to T. E. Murray, Brooklyn, N. Y. Radiator. 1,706,982; Mar. 26.
- Murray, Thomas E., Brooklyn, N. Y., and J. A. Freiday, East Orange, N. J.; said Freiday assignor to said Murray, Boiler. 1,720,090; July 9.
- Murray, Thomas E., Brooklyn, N. Y., and G. K. Jessup, Greenwich, Conn.; said Jessup assignor to said Murray. Conduit-building apparatus. 1,707,446; Apr. 2.
- Murray, Thomas E., Brooklyn, and J. H. Lawrence, New York, N. Y.; said Lawrence assignor to said Murray. Burner. 1,720,089; July 9.
- Murray, Thomas E., Brooklyn, and J. H. Lawrence, New York, N. Y.; said Lawrence assignor of his entire right to said Murray. Boiler or heater. 1,724,505; Aug. 13.
- Murray, Thomas E., deceased, Brooklyn, N. Y.; J. B. Murray, T. E. Murray, jr., and J. F. Murray, executors. Gate valve. 1,738,014; Dec. 3.
- Murray, Thomas E., deceased, Brooklyn, N. Y.; Joseph B., Thomas E., jr., and John F. Murray, executors. Heater. 1,739,767; Dec. 17.
- Murray, Thomas E., deceased, Brooklyn, N. Y.; J. B., T. E., jr., and J. F. Murray, executors. Electric fuse. 1,740,698; Dec. 24.
- Murray, Thomas E., deceased, Brooklyn, N. Y.; J. B., T. E., jr., and J. F. Murray, executors. Electric fuse. 1,740,699; Dec. 24.
- Murray, Thomas E., deceased, Brooklyn, N. Y.; J. B., T. E., jr., and J. F. Murray, executors. Air-conditioning apparatus. 1,741,726; Dec. 31.
- Murray, Thomas E., jr., Brooklyn, and A. B. Rypinski, Laurelton; said Rypinski assignor to Thomas E. Murray, Brooklyn, N. Y. Switch box. 1,700,745; Feb. 5.
- Murray, Thomas E., New York, N. Y. Apparatus for obtaining pulverized coal. 1,702,055; Feb. 12.
- Murray, Thomas E., jr., New York, N. Y. Manufacture of automobile frames. 1,723,518; Aug. 6.
- Murray, Thomas E., New York, assignor to Metropolitan Engineering Company, Brooklyn, N. Y. Hollow article and making the same. 1,729,180; Sept. 24.
- Murray, Thomas G. (See Perks, C., Shields, and Murray.)
- Murray, Wendell P. (See Benjamin, S. E. and Murray.)
- Murray, William, Ashton-under-Lyne, England. Electric flash-light photographic camera. 1,699,906; Jan. 22.
- Murray, William S. (See Gray, D., Bailey, and Murray.)
- Murrell, Thomas E. (See Hauserman, E. F., Mowery, McClenaghan, and Murrell.)



- Murrill, Paul I., Plainfield, N. J., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Preparation of pickling baths. 1,736,934; Nov. 26.
- Murry, Mary, St. Louis, Mo. Game. 1,701,931; Feb. 12.
- Mursu, Arthur A., Flint, Mich. Ratchet mechanism. 1,737,323; Nov. 26.
- Muscato, Giuseppe, Buffalo, N. Y. Attachment for wash wringers. 1,701,693; Feb. 12.
- Muscillo, Joseph, Waterbury, Conn. Gas blowtorch. 1,701,211; Feb. 5.
- Muscogee Manufacturing Company. (See Swift, Edward W., assignor.)
- Musgrave, Joseph L. (See Crittal, R. G., and Musgrave.)
- Musgrove, Don C., (See Musgrove, Erastus J., and D. C.)
- Musgrove, Erastus J. and D. C., Corsicana, Tex. Sucker rod. 1,700,070; Jan. 22.
- Musheiyko, Emil, Youngstown, Ohio. Operating pouring-muzzle stoppers in molten-metal ladles. 1,716,829; June 11.
- Musher, Albert, et al. (See Richardson, W. D., and Newton, assignors.)
- Musical Accessories Corporation. (See Romao, August, assignor.)
- Muskegon Piston Ring Company. (See Olson, George W., assignor.)
- Muskett, James, Atlantic City, assignor of one-half to J. A. Muskett, Absecon, N. J. Permanently straightening hair. 1,697,132; Jan. 1.
- Muskett, Joseph A. (See Muskett, James, assignor.)
- Muskogee Iron Works. (See Champion, William L., assignor.)
- Mussa, Marcel V., Pasadena, Calif. Gear clutch. 1,717,730; June 18.
- Mussett, Robert T., Waterloo, Iowa. Steam boiler. 1,710,709; Apr. 30.
- Mussey, William H. (See Test, E. W., and Mussey.)
- Mussey, William H., assignor to Pullman Car and Manufacturing Corporation, Chicago, Ill. Car truck. 1,701,271; Feb. 5.
- Mussey, William H., assignor to Pullman Car and Manufacturing Company, Chicago, Ill. Car truck. 1,716,146; June 4.
- Mustad, O., & Son. (See Moeller, Adolf, assignor.)
- Mustee, Joseph A. (See Mustee, Joseph F., assignor.)
- Mustee, Joseph F., assignor of one-half to J. A. Mustee, Cleveland, Ohio. Gas burner. 1,739,515; Dec. 17.
- Mustomatik Specialties, Inc. (See Coffin, Joseph G., assignor.)
- Mustomatik Specialties, Inc. (See Coffin, J. G., and Silverstein, assignors.)
- Mutaguchi, Magoshiro. (See Mimaki, H., Andow, and Mutaguchi.)
- Mutch, George A., Coral Gables, assignor to New-H-Man Corporation, Miami, Fla. Water softener. 1,741,645; Dec. 31.
- Muth, Friedrich. (See Schmelzer, A., Muth, and Glietenberg.)
- Muth, Herbert J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic machine. 1,728,906; Sept. 17.
- Muther Manufacturing Company. (See Smith, Edward R., assignor.)
- Muto, Tomenosuke, and S. Hida, Kobe, assignors to Kane-gafuchi Boseki Kabushiki Kiwaisha, Tokyo-Fu, Japan. Liquidation of natural silk threads. 1,714,039; May 21.
- Mutscheller, Arthur, New York, N. Y. Vacuum-tube discharge device. 1,735,959; Dec. 10.
- Mutscheller, Arthur, New York, N. Y. Vacuum discharge device and using the same. 1,738,960; Dec. 10.
- Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Co. Inc. X-ray apparatus. 1,709,866; Apr. 23.
- Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Company, Inc. Electric machine. 1,738,917; Dec. 10.
- Mutschler Brothers Company. (See Landaw, Oak, assignor.)
- Mutschler, Charles. (See Lamb, David C., assignor.)
- Mutual Electric & Machine Company. (See Frank, Harrison J. L., assignor.)
- Mutual Stores, Inc. (See Trapp, Edwin W., assignor.)
- Mutual-Sunset-Lamp Mfg. Co. (See Collins, Frank, assignor.)
- Mutual Sunset-Lamp Mfg. Co. Inc. (See Collins, Frank, assignor.)
- Muyskens, Harvey. (See Stadt, W. H., and Muyskens.)
- Muzyn, Clemens, Gary, Ind. Engine timing gauge. 1,737,726; Dec. 3.
- Myatt, Jules. (See Campbell, F. N., and Myatt.)
- Myer, Claus D., assignor to Myer Flush Valve Co., Inc., Union City, N. J. Flush valve. 1,722,155; July 23.
- Myer Flush Valve Co. (See Myer, Claus D., assignor.)
- Myer, Otto C., Oakland, Calif. Fireplace heater. 1,728,214; Sept. 17.
- Myers, Alice E. (See Stubblefield, John A., assignor.)
- Myers, Bennett. (See Severud, F., and Myers.)
- Myers, C. Thomas, et al. (See Davis, Charles S., assignor.)
- Myers, Cornelius T., Avenel, N. J. Magazine lubricating system. 1,724,506; Aug. 13.
- Myers, Derbin S., Evansville, Ind. Concealed hinge. 1,718,483; June 25.
- Myers, Don D., assignor to Industrial Research Corporation, Toledo, Ohio. Washing and drying machine. 1,725,995; Aug. 27.
- Myers, Edward C., Portland, Oreg. Mowing machine. 1,739,323; Dec. 10.
- Myers, Edward C., assignor to Wehr Co., Milwaukee, Wis. Frame for tractors. 1,702,915; Feb. 19.
- Myers, Edward C., assignor to Wehr Company, Milwaukee, Wis. Blank for and making gear sectors. 1,724,957; Aug. 20.
- Myers, Edward C., assignor to Wehr Company, Milwaukee, Wis. Power-steering mechanism. 1,731,056; Oct. 8.
- Myers, Eldridge L., Washington, D. C. Automobile braking mechanism. 1,731,499; Oct. 15.
- Myers, George B., Denver, Colo. Internal-combustion engine. 1,699,803; Jan. 22.
- Myers, George F., New York, N. Y. Apparatus for handling mail. 1,724,507; Aug. 13.
- Myers, George F., New York, N. Y. Making talking motion pictures. 1,729,048; Sept. 24.
- Myers, Gilbert, Boise, Idaho. Novelty hat. 1,727,484; Sept. 10.
- Myers, Gus, Fargo, N. Dak. Auto signal. 1,717,934; June 18.
- Myers, Harrison W., Freeport, N. Y. Combined envelope and invoice sheet. 1,711,575; May 7.
- Myers, Harry L., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Brush-retaining device. 1,719,072; July 2.
- Myers, Harry S., Van, Pa. Winch. 1,720,562; July 9.
- Myers, Herbert B., Little Rock, Ark. Flush lever. 1,729,546; Sept. 24.
- Myers, Homer, Oregon City, Oreg. Pan scraper. 1,721,130; July 16.
- Myers, Howard C. (See Lewis, I. L., and Myers.)
- Myers, Hubert A., Toledo, Ohio. Window regulator. 1,719,379; July 2.
- Myers, Hubert A., assignor of one-third to A. S. Hickok, Toledo, Ohio. Crank-pin connection. 1,702,743; Feb. 19.
- Myers, Hubert A., Toledo, assignor to The Metal Castings Holding Company, Cleveland, Ohio. Treating molds for producing soft castings. 1,706,858; Mar. 26.
- Myers, Hubert A., assignor to The Myers Regulator Company, Toledo, Ohio. Window-regulator supporting plate. 1,718,482; June 25.
- Myers, Hubert A., assignor of one-half to A. S. Hickok, Toledo, Ohio. Pavement construction. 1,721,464; July 16.
- Myers, Hubert A., assignor of one-half to A. S. Hickok, Toledo, Ohio. Musical toy. 1,721,465; July 16.
- Myers, Hubert A., assignor of one-half to A. S. Hickok, Toledo, Ohio. Musical toy. 1,725,057; Aug. 6.
- Myers, Hubert A., assignor of one-half to A. S. Hickok, Toledo, Ohio. Confection sound instrument. 1,723,746; Aug. 6.
- Myers, Hubert A., assignor to The Myers Regulator Company, Toledo, Ohio. Automobile window-regulator support. 1,732,981; Oct. 22.
- Myers, Jacob E., Kansas City, Mo. Edge-turning machine. 1,733,199; Oct. 29.
- Myers, John A., Cleveland, Ohio. Coffeepot. 1,722,936; July 30.
- Myers, Joseph R., Chicago, Ill. Box construction. 1,736,720; Nov. 19.
- Myers, L. A., jr., Inc. (See Barker, Erastus B., assignor.)
- Myers, L. A., jr., Inc. (See Myers, William L., assignor.)
- Myers, L. A., jr., Inc. (See Myers, W. L., and Harrison, assignors.)
- Myers, Lee V., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind. Passing lubricants directly through liquid receivers in refrigeration apparatus. 1,736,721; Nov. 19.
- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,722,439; July 30.
- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,722,937; July 30.
- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,737,324; Nov. 26.
- Myers, Margaret L., Sioux Falls, S. Dak. Clothespin bag. 1,700,686; Jan. 29.
- Myers, Marshall R., Afton, Iowa. Airship construction. 1,731,348; Oct. 15.
- Myers, Max A. (See Lower, Melvin S., assignor.)
- Myers, Nelson H. (See Pade, M. H., and Myers.)
- Myers, Nelson H., and E. E. Leach, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Method and apparatus for making bead material. 1,734,018; Oct. 29.
- Myers, Nelson H., Akron, and O. E. Sords, Cuyahoga Falls, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-preparation conveyer. 1,718,660; June 25.
- Myers, Ralph E., East Orange, N. J., assignor to Westinghouse Lamp Company. Electron device and the like adapted for alternating current. 1,719,988; July 9.
- Myers Regulator Company, The. (See Myers, Hubert A., assignor.)
- Myers, Richard O., Leechburg, Pa. Automobile windshield. 1,699,620; Jan. 22.
- Myers, Sara A., Gloversville, N. Y., and J. J. Ash, London, England, assignors to Myers Woolly Animals Co., Gloversville, N. Y. Knee, elbow, or shoulder cap. 1,727,897; Sept. 10.



- Myers, Shierfield G., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Ship stabilizing and rolling apparatus. 1,730,941; Oct. 8.
- Myers, Thomas A., Ventura, Calif. Well-derrick device. 1,716,559; June 11.
- Myers, Thomas B., assignor to Hamilton Beach Manufacturing Company, Racine, Wis. Motor-driven beater. 1,738,112; Dec. 3.
- Myers, Tom B., Marshall, Tex. Torpedo. 1,709,590; Apr. 16.
- Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Automatic embroidering machine. 1,728,910; Sept. 17.
- Myers, Walter S. (See Baker, D., and Myers.)
- Myers-Whaley Company. (See Whaley, William, assignor.)
- Myers, William H., Brooklyn, N. Y. Combination top for gas ranges. 1,712,578; May 14.
- Myers, William H., Brooklyn, N. Y. Combination top for gas ranges. 1,733,899; Oct. 29.
- Myers, William L., Newark, N. J. Buckle. Des. 79,526; Oct. 1.
- Myers, William L., St. Louis County, Mo. Level. 1,703,589; Feb. 26.
- Myers, William L., assignor to L. A. Myers, jr., Inc., Newark, N. J. Buckle. Des. 79,564; Oct. 8.
- Myers, William L., assignor to L. A. Myers, jr., Inc., Newark, N. J. Buckle. Des. 79,602; Oct. 15.
- Myers, William L., assignor to L. A. Myers, jr., Inc., Newark, N. J. Buckle. Des. 79,899; Nov. 12.
- Myers, William L., assignor to L. A. Myers, jr., Inc., Newark, N. J. Buckle. Des. 79,933; Nov. 19.
- Myers, William L., Newark, and G. D. Harrison, Belleville, assignors to L. A. Myers, jr., Inc., Newark, N. J. Attachment for shoe ornaments. 1,738,605; Dec. 10.
- Myers, Winter W., West Shore, Lake Hopatcong, N. Y., assignor to Austral Window Company, New York, N. Y. Door holder. 1,721,257; July 16.
- Myers Woolly Animals Co. (See Myers, S. A., and Ash, assignors.)
- Myerson, Simon. (See Maulen, F., Myerson and Van Allen.)
- Myerson, Simon, Cambridge, Mass. Artificial tooth. 1,699,854; Jan. 22.
- Myklasiewski, Walter. (See Sokol, John, assignor.)
- Mylius, Walter G. (See Rutter, A. R., and Mylius.)
- Mylius, Walter G., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cover for watt-hour meters. 1,699,804; Jan. 22.
- Myrberg, Sven O., East Providence, R. I., assignor to Providence Stock Company, Providence, R. I. Clasp. 1,702,360; Feb. 19.
- Myrberg, Sven O., East Providence, assignor to Providence Stock Company, Providence, R. I. Clasp. 1,729,793; Oct. 1.
- Mytinger, George A. (See Davie, J. M., and Mytinger.)
- N. V. de Bataafsche Petroleum Maatschappij. (See Schönfeld, Johan F. P., assignor.)
- N. V. Nederlandsche Mijnbouw en Handel Maatschappij. (See Wiederhold, Hermann, assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See Bouwers, Albert, assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See Dalheimer, Walther, assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See Dijksterhuis, Popko R., assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See de Boer, Jan H., assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See de Boer, J. H., and van Arkel, assignors.)
- N. V. Philips' Gloeilampenfabrieken. (See Dobben, P. W., Mulder, and Oosterhuis, assignors.)
- N. V. Philips' Gloeilampenfabrieken. (See Hertz, Gustav L., assignor.)
- N. V. Philips' Gloeilampenfabrieken. (See Romp, J., and Brandsma, assignors.)
- N. V. Philips' Gloeilampenfabrieken. (See van Arkel, A. E., and de Boer, assignors.)
- N. V. Philips' Gloeilampenfabrieken. (See van der Poel, Johannes M., assignor.)
- N. V. Union Maatschappij voor Automatische Metaalbewerking. (See Diener, Kurt, assignor.)
- Naamlooze Vennootschap Algemeene Norit Maatschappij. (See Sauer, Johan N. A., assignor.)
- Naamlooze Vennootschap: De Bataafsche Petroleum Maatschappij. (See Meijer, Reinier, assignor.)
- Naamlooze Vennootschap Electricitats-Maatschappij "Electroostoom." (See Jasper, Christiaan H., assignor.)
- Naamlooze Vennootschap Glasfabriek "Leerdaam," voorheen Jeekel, Mijnsen & Co. (See Cochius, Petrus M., assignor.)
- Naamlooze Vennootschap Internationaal Octrooibureau. (See Schoonenberg, Pancras, assignor.)
- Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen. (See De Brouckere, Leon, assignor.)
- Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen. (See Rienks, William, assignor.)
- Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen. (See van Berkel, Cornelis F. M., assignor.)
- Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen. (See van Berkel, Johannes C., assignor.)
- Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen. (See van Duyn, Adrianus, assignor.)
- Naamlooze Vennootschap: Machinefabriek Reineveld. (See Tol, Hermanus F., assignor.)
- Naamlooze Vennootschap Nederlandsche Fabriek van Werktuigen en Spoorwegmaterieel Genaamd "Werkspoor." (See Lugt, Gerard J., assignor.)
- Naamlooze Vennootschap Nederlandsche Kunstzijdefabriek. (See Janssen, Hendrik J. J., assignor.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Bouwers, A., and van de Sande Bakhuyzen, assignors.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Holst, G., and Oosterhuis, assignors.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Hertz, Gustav L., assignor.)
- Naamlooze Vennootschap Philips' Gloeilampenfabrieken. (See Holst, G., Bergmans, and Bol, assignors.)
- Naamlooze Vennootschap: Societeit voor Chemische Industrie "Katwijk." (See Van Dorp, Gerard C. A., assignor.)
- Naamlooze Vennootschap: Technisch Handels-Bureau "Thabur." (See Blik, Joseph, assignor.)
- Naatz, Hermann, Berlin-Wilmersdorf, assignor to Wasser- und Luft-Fahrzeug G. m. b. H., Berlin, Germany. Valve for airships, balloons, and the like. 1,729,516; Sept. 24.
- Nabel, Harry C. (See James, H. D., and Nagel.)
- Nabow, David. (See Lee, W. S., Pfahler, and Nabow.)
- Nacey, James, Milwaukee, Wis. Vessel. 1,706,035; Mar. 19.
- Nachman, Fred A. (See Suekoff, Louis A., assignor.)
- Nachod, Heinz. (See Skaup, F., Nachod, and Gaidies.)
- Nacken, Walther, Gruna, near Chemnitz, Germany. Multiple-wire-drawing machine. 1,727,664; Sept. 10.
- Nacker, Owen M. (See Brush, A. P., and Nacker.)
- Nadeau, Edmund G. (See Buck, E. L., and Nadeau.)
- Naef, M., & Co. (See Ruzicka, Leopold, assignor.)
- Naeher, Paul. (See Jubien, P., and Naeher.)
- Naeher, Paul, Chicago, Ill., assignor to Larrowe Milling Company, Detroit, Mich. Bag-filling machine. 1,719,124; July 2.
- Naess, Hallvard, Moss, Norway. Apparatus for cleaning centrifugal separators. 1,707,232; Apr. 2.
- Næss, Hallvard, Oslo, Norway. Centrifugal separator. 1,738,258; Dec. 3.
- Nafziger Adolph. (See Muller, H., and Nafziger.)
- Nagao, Seturô, Tokyo, Japan. Unloading machine. 1,698,854; Jan. 15.
- Nagaoka, Hantaro, Ueno, Tokyo, T. Asada, Komagome, Tokyo, and T. Machida, Kojimachi-Ku, Tokyo, assignors to Zaidan Hojin Rikagaku Kenkyujo, Komagome, Tokyo, Japan. Mercury lamp. 1,740,030; Dec. 17.
- Nagaoka, Hantaro, and J. Ikebe, assignors to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Electromagnetic chemical balance. 1,717,462; June 18.
- Nagel, August, Stuttgart, Germany. Valve gear for liquid meters on vehicles or the like. 1,699,440; Jan. 15.
- Nagel, George E., Greenville, Ohio. Mold for forming concrete slabs. 1,705,201; Mar. 12.
- Nagel, George E., Greenville, Ohio. Filler for railway crossings. 1,720,187; July 9.
- Nagel, Richard, Spandau, Germany, assignor to F. A. Schroeder, New York, N. Y. Electrostatic telephone. 1,708,846; Apr. 9.
- Nagel, W. G., Electric Company, The. (See McCoy, William C., assignor.)
- Nagel, Wilhelm. (See Panzerbieter, T., and Nagel.)
- Nagem, William E., Lake Charles, La. Automatic circuit closer for electric signal lights and signs. 1,738,444; Dec. 3.
- Naggy, Mitchell, and S. Sikorski, Port Richmond, Va. Tool for removing hub bushings and the like. 1,720,428; July 9.
- Naggy, Mitchell, and S. Sikorski, Port Richmond, Va. Bushing-removing tool. 1,728,248; Sept. 17.
- Nagin, Harry, assignor to Tri-Lok Company, Pittsburgh, Pa. Clip for gratings. 1,707,533; Apr. 2.
- Nagin, Harry, assignor to Tri-Lok Company, Pittsburgh, Pa. Grating edge structure. 1,732,527; Oct. 22.
- Nagle, Claude, Elmira, N. Y., assignor to Hartford-Empire Company, Hartford, Conn. Damper control for leers. 1,697,996; Jan. 8.
- Nagle, Perry L., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Rotary pump for handling solids in suspension. 1,697,202; Jan. 1.
- Nagle, Peter J., Rochester, N. Y. Hat holder. 1,728,249; Sept. 17.
- Nagle, Walter G., assignor to Baker Nagle Company, Belleville, Ill. Heater. Des. 79,742; Oct. 29.
- Nagy, Andrew, Bethlehem, Pa. Strainer stand for liquid-measuring devices. 1,710,588; Apr. 23.
- Nagy, Berthold, New York, N. Y. Machine for molding cork rods. 1,711,962; May 7.
- Nagy, John, New York, N. Y. Rail connector. 1,729,449; Sept. 24.
- Nagy, Louis, Hamilton, Ontario, Canada, assignor of one-fifth to M. Daradics. Nonsinkable ship. 1,705,303; Mar. 12.



- Nagy, Peter M., assignor to T. F. Baily, Alliance, Ohio. Current-control apparatus. 1,697,401; Jan. 1.
- Nagy, Sandor, Mandok, Hungary, assignor of one-half to S. Robb, New York. Water turbine. 1,741,949; Dec. 31.
- Nahikian, Kissag M., Worcester, Mass., R. W. Foster, Burlington, Vt., and E. T. Beldon, New York, N. Y., assignors to Brewer & Company, Inc., Worcester, Mass. Calcining lime. 1,709,226; Apr. 16.
- Nalbert, Frank J., Cedar Rapids, Iowa. Vacuum skin cleanser. 1,732,310; Oct. 22.
- Naida, William, Astoria, N. Y. Speed indicator and signal. 1,727,665; Sept. 10.
- Naimark, Aaron, Freeport, N. Y. Advertising device. 1,702,701; Feb. 19.
- Nair, Archie F. and H. A., Glendale, Calif. Gas bomb adapted to be discharged from aircraft. 1,723,804; Aug. 6.
- Nair, Robert A. (See Nair, Archie F. and H. A.)
- Naismith, Donald M. (See Naismith, George and D. M.)
- Naismith, George and D. M., Pittsburgh, Pa. Furnace. 1,725,879; Aug. 27.
- Naismith, George and D. M., Pittsburgh, Pa. Furnace. 1,727,898; Sept. 10.
- Naismith, George and D. M., Pittsburgh, Pa. Furnace. 1,732,137; Oct. 15.
- Naismith, George and D. M., Pittsburgh, Pa. Furnace. 1,732,138; Oct. 15.
- Najarian, Harry and W. V., New York, N. Y. Plucking device. 1,724,102; Aug. 13.
- Najarian, Walter V. (See Najarian, Harry and W. V.)
- Nakamura, Seishichiro, et al. (See Yoshimoto, Sukesaku, assignor.)
- Nakanishi, Kinjiro, Fukuoka, Japan. Electrically-controlled device for use in shedding motion in looms for weaving figured fabrics and for use in figured-card-cutting machines. 1,721,787; July 23.
- Nakanishi, Kinjiro, Fukuoka, Japan. Electrically-controlled shedding device in looms for weaving figured fabrics. 1,728,438; Sept. 17.
- Nakata, Hisakazu. (See Matsumiya, K., and Nakata.)
- Nakatsu, Chikayoshi, Kumamoto-Shi, Japan. Coal washing and selecting apparatus. 1,701,589; Feb. 12.
- Nakken, Theodor H., Jersey City, N. J., assignor to S. Rutenburg and M. N. Leibowitz, New York, N. Y. Electromagnetic vibrating device. 1,704,511; Mar. 5.
- Nalesnik, John, New York, N. Y. Combined receptacle and table. 1,723,519; Aug. 6.
- Naletko, Peter F., et al. (See Boldireff, W. E., and Korunkin, assignors.)
- Naman, Nathan, New York, N. Y., assignor of one-half to P. Monka. Shade roller. 1,710,065; Apr. 23.
- Namet, Julius, and P. McManaman, Cleveland, Ohio. Signal. 1,728,302; Sept. 17.
- Nand, Jack, and S. Moche, Tampa, Fla. Dog race track. 1,733,069; Oct. 22.
- Nande Corporation. (See Everett, Edward A., assignor.)
- Nanke, Felix, Walthamstow, England. Ornithopter. 1,726,915; Sept. 3.
- Napier Co., The. (See Rettenmeyer, Frederick, assignor.)
- Napier, George R., assignor, by mesne assignments, to The Guardian Trust Company, Cleveland, Ohio. Cutting and apparatus therefor. 1,738,918; Dec. 10.
- Napier, Hugh, Denver, Colo. Illuminated hose-display form. 1,723,058; Aug. 6.
- Napier, Milton F. (See Stelzer, Edwin H., assignor.)
- Napon Rayon Corporation. (See Jessen, Charles C., assignor.)
- Napp, Charles E., Winter Haven, Fla., assignor to S. C. Hirschberg, New York, N. Y. Telephone directory and calendar. 1,701,821; Feb. 12.
- Nardon, Carl J., Los Angeles, Calif. Tissue cabinet. 1,735,931; Nov. 19.
- Nardone, Ugo, Fondi, Italy. Plow tractor. 1,722,440; July 30.
- Narragansett Machine Company. (See Thornley, Albert E., assignor.)
- Narrow Fabric Co., The. (See Huber, Otto E., assignor.)
- Narrow Fabric Co., The. (See Vorck, Theodor G., assignor.)
- Nash, Benjamin S., Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio. Textile fabric or similar article. Des. 80,241; Dec. 31.
- Nash, Charles B., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 79,565; Oct. 8.
- Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Railway brake. 1,723,059; Aug. 6.
- Nash, Charles J., and J. Wilson, Chicago, Ill., assignors to Universal Draft Gear Attachment Co. Drop brake. 1,705,304; Mar. 12.
- Nash, Clarence A., Newark, N. J., assignor to Bakelite Corporation, New York, N. Y. Molding mixture. 1,721,742; July 23.
- Nash, Clarence A., Milwaukee, Wis., J. P. Trickey, Evanston, and C. S. Miner, Glencoe, assignors to The Quaker Oats Company, Chicago, Ill. Synthetic material adapted to the plastic art. 1,736,047; Nov. 19.
- Nash, Douglas E., South Norwalk, Conn. Controlling apparatus for low-pressure steam turbines. 1,704,403; Mar. 5.
- Nash, Frank L., and J. E. Cox., Rosemary, N. C. Humidifier for internal-combustion engines. 1,734,872; Nov. 5.
- Nash, George H., Sidcup, and B. B. Grace, Gravesend, England, assignors to Western Electric Company, Incorporated, New York, N. Y. Wireless receiving set. 1,609,089; Apr. 16.
- Nash, James O., Duke, Okla. Pump. 1,732,855; Oct. 22.
- Nash, John E., Bellingham, Wash. Wrist driving signal lamp. 1,740,778; Dec. 24.
- Nash Motors Company. (See Wahlberg, Nils E., assignor.)
- Nash, Roland L. (See Andersen, F. C., Nash, and Roland.)
- Nashua Gummed & Coated Paper Company. (See Chabot, Ephraim H., assignor.)
- Nashua Gummed and Coated Paper Company. (See Gautier, Trevor R., assignor.)
- Nashua Gummed and Coated Paper Company. (See Gautier, T. R., and Nichols, assignors.)
- Nashua-Youngblood Company. (See Youngblood, Knowles, assignor.)
- Nasmith, John W., Heaton Mersey, Manchester, England. Combing machine. 1,707,134; Mar. 26.
- Nassau Brass Foundry, Inc., et al. (See Alexander, Arthur S., assignor.)
- Natale, Natale, D., Banning, Pa. Rail anchor. 1,728,188; Sept. 17.
- Natalis, Friedrich, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,703,353; Feb. 26.
- Nater, Rudolph, Highbury, London, and W. Brice, Kensington, London, assignors to Road Marks Limited, London, England. Traffic marker. 1,708,369; Apr. 9.
- Nathan & Cohen Co. Inc. (See Muelberger, Walter, assignor.)
- Nathan, Edwin B., Yonkers, N. Y. Winter or weather closure for automobiles. 1,716,830; June 11.
- Nathan, Edwin B., Yonkers, N. Y. Weather or winter closure for automobiles. 1,716,831; June 11.
- Nathan, Edwin B., Yonkers, N. Y. Lubricating device. 1,719,439; July 2.
- Nathan, Edwin B., Yonkers, N. Y. Hammock or crib support. 1,719,440; July 2.
- Nathan, Edwin B., New York, N. Y. Skate scabbard. 1,725,821; Aug. 27.
- Nathan Manufacturing Company. (See Kassander, Leopold, assignor.)
- Nathan Manufacturing Company. (See Pecz, K., and Rejtö, assignors.)
- Nathanson, Isidore. (See Rodstein H., Book, and Nathanson.)
- Nathanson, William, Chicago, Ill. Connection for radiators or the like. 1,707,172; Mar. 26.
- Nation, Daniel L., Denver, Colo. Nut lock. 1,703,947; Mar. 5.
- National Academy of Sciences. (See Cleveland, Lemmie R., assignor.)
- National Acme Company, The. (See Drissner, A. E., and Garey, assignors.)
- National Acme Company, The. (See Furlong, W. G., and Crumrine, assignors.)
- National Acme Company, The. (See Paterson, D. S., and Petsche, assignors.)
- National Air-Lub Products Incorporated. (See Buchet, Conrad R., assignor.)
- National Aluminate Corporation. (See Evans, Wilson, assignor.)
- National Aniline and Chemical Co. (See Davis, Archibald H., jr., assignor.)
- National Aniline & Chemical Company. (See Dieterle, Paul, assignor.)
- National Aniline & Chemical Co. (See Geller, Leon W., assignor.)
- National Aniline & Chemical Company. (See Hillyer, Homer W., assignor.)
- National Aniline & Chemical Co. (See Hoover, Kenneth H., assignor.)
- National Aniline & Chemical Co. (See Kranz, Frederick H., assignor.)
- National Aniline & Chemical Company. (See Kyrides, Lucas P., assignor.)
- National Aniline & Chemical Company. (See Lewis, Harry F., assignor.)
- National Aniline & Chemical Co. (See Meyers, Sidney E., assignor.)
- National Aniline & Chemical Company. (See Murch, W. M., and Cawenberg, assignors.)
- National Aniline & Chemical Company. (See Nelson, Ralph A., assignor.)
- National Aniline and Chemical Co. (See Ogilvie, James, assignor.)
- National Aniline & Chemical Co. (See Rogers, Donald G., assignor.)
- National Aniline & Chemical Company. (See Rogers, D. G., and Stowell, assignors.)
- National Aniline & Chemical Co. (See Wait, Justin F., assignor.)
- National Aniline & Chemical Company. (See Young, John, assignor.)
- National Appliance Corporation. (See Mulvany, Harry A., assignor.)
- National Assorting Company. (See Cox, George W., Jr., assignor.)
- National Auto Tag Seal Corporation. (See Kiger, Luther J., assignor.)
- National Automatic Tool Company, The. (See Galloway, Robert M., assignor.)
- National Automatic Tool Company, The. (See Galloway, R. M., and Schafer, assignors.)
- National Biscuit Company. (See Campbell, George W., assignor.)



- National Biscuit Co. (See Hungerford, Henry H., assignor.)  
 National Biscuit Company. (See Leng, John H., assignor.)  
 National Biscuit Company. (See Taylor, George, A., assignor.)  
 National Blank Book Company. (See Schade, John, assignor.)  
 National Boiler Washing Company. (See Otis, S., and Wichman, assignors.)  
 National Brake Company Inc. (See Brewster, William D., assignor.)  
 National Brake & Electric Company. (See Aikman, Burton S., assignor.)  
 National Brake & Electric Company. (See Davis, Edwin T., assignor.)  
 National Brass Company. (See Lickteig, Albert F., assignor.)  
 National Bread Wrapping Machine Company. (See Sévigné, H. A., and Jacobs, assignors.)  
 National Bread Wrapping Machine Company. (See White, Wallace D., assignor.)  
 National Brick Company. (See Weber, C. J., and Seek, assignors.)  
 National Bus Directory Co. (See Seward, E. A., and Martiniere, assignors.)  
 National Canners Association. (See Bohart, George S., assignor.)  
 National Carbon Company, The. (See Bagley, G. D., and Bowditch, assignors.)  
 National Carbon Company. (See Benner, Raymond C., assignor.)  
 National Carbon Company. (See Bowditch, Fred T., assignor.)  
 National Carbon Company. (See Currie, Lauchlin M., assignor.)  
 National Carbon Company. (See Dexter, Wilbur B., assignor.)  
 National Carbon Company. (See Heise, G. W., and Schumacher, assignors.)  
 National Carbon Company. (See Hendry, William F., assignor.)  
 National Carbon Company. (See Hopkins, Nevil M., assignor.)  
 National Carbon Company. (See Jones, Homer W., assignor.)  
 National Carbon Company. (See Jones, H. W., and Smith, assignors.)  
 National Carbon Company. (See Kalb, Warren C., assignor.)  
 National Carbon Company. (See Marsal, Paul A., assignor.)  
 National Carbon Company. (See Porth, Henry W., assignor.)  
 National Carbon Company. (See Rahm, Frederick W., assignor.)  
 National Carbon Company. (See Reich, Edwin J., assignor.)  
 National Carbon Company. (See Smith, Ralph R., assignor.)  
 National Carbon Company. (See Smith, R. R., and Marsh, assignors.)  
 National Carbon Company. (See Steiger, B. F., Heppner, and Holt, assignors.)  
 National Carbon Company. (See Teague, Walter D., assignor.)  
 National Carbon Company. (See Voorhees, Lee J., assignor.)  
 National Carbon Company. (See Walden, Don O., assignor.)  
 National Cash Register Company, The. (See Arnold, Charles H., assignor.)  
 National Cash Register Company, The. (See Berger, Friedrich, W. F., assignor.)  
 National Cash Register Company, The. (See Brand, Samuel, assignor.)  
 National Cash Register Company, The. (See Brown, William C., assignor.)  
 National Cash Register Company, The. (See Carroll, Thomas, assignor.)  
 National Cash Register Company, The. (See Damuth, E. J., and Roux, assignors.)  
 National Cash Register Company, The. (See Fuller, Frederick L., assignor.)  
 National Cash Register Company, The. (See Fuller, F. L., and Robertson, assignors.)  
 National Cash Register Company, The. (See Goldberg, Maximilian M., assignor.)  
 National Cash Register Company, The. (See Klosterman, Joseph J., assignor.)  
 National Cash Register Company, The. (See Kropff, Wilhelm, assignor.)  
 National Cash Register Company, The. (See Scott, Howard B., assignor.)  
 National Cash Register Company, The. (See Scott, H. B., and Warner, assignors.)  
 National Cash Register Company, The. (See Shipley, Bernis M., assignor.)  
 National Cash Register Company, The. (See Von Pein, E. J., and Kramer, assignors.)  
 National Cash Register Company, The. (See Werner, John A., assignor.)  
 National Cash Register Company, The. (See Wood, Rodney J., assignor.)  
 National Casket Company. (See Falck, Joseph E., assignor.)  
 National Cedarchex Corporation. (See Winchester, Carey C., assignor.)  
 National Coal Distillation Corporation. (See Rohmer, Gabriel B., assignor.)  
 National Electric Corporation. (See De Lorme, Alfred C., assignor.)  
 National Electrical Instrument Company. (See Mancib, Alvin S., assignor.)  
 National Electrical Products Company. (See Adler, Oscar, assignor.)  
 National Electrical Products Company. (See Pfanstiehl, Carl, assignor.)  
 National Electric Products Corporation, The. (See Staples, Horace A., assignor.)  
 National Enameling & Stamping Co. (See Marter, Richard G., assignor.)  
 National Enameling & Stamping Co. (See Sladky, Joseph and A. C., assignors.)  
 National Equipment Company. (See Bausman, Alonzo L., assignor.)  
 National Equipment Company. (See Comber, John, assignor.)  
 National Equipment Company. (See Norman, Horace E., assignor.)  
 National Fabric and Finishing Company. (See Anhalt, Sidney S., assignor.)  
 National Fabric and Finishing Company. (See Ericson, Emile, assignor.)  
 National Fabric and Finishing Company. (See Meyers, Edward G., assignor.)  
 National Fabric and Finishing Company. (See Weaver, Lillian, assignor.)  
 National Fire Proofing Company. (See Shipley, Roy A., assignor.)  
 National Foam System Inc. (See Faber, Leon, assignor.)  
 National Folding Box Company. (See Reichel, Ferdinand, assignor.)  
 National Gas Register Pump Co. (See Hardesty, Ben F., assignor.)  
 National Gauge & Equipment Company. (See Cheney, Moses E., assignor.)  
 National Gauge & Equipment Company. (See Gelatt, Philo M., assignor.)  
 National Gauge & Equipment Company. (See Padesky, John R., assignor.)  
 National Graphite Lubrication Company. (See Watres, Lewis S., assignor.)  
 National Gypsum Company. (See Haggerty, Joseph F., assignor.)  
 National High Pressure Hose Co. (See Atwood, Leonard, assignor.)  
 National India Rubber Company. (See Huestis, Thomas B., assignor.)  
 National India Rubber Company. (See Lundy, Fred P., assignor.)  
 National Kellastone Company. (See Seaton, Max Y., assignor.)  
 National Labeling Machine Company. (See Cereghino, Joseph A., assignor.)  
 National Laundry Machinery Company. (See Reeps, Charles O., assignor.)  
 National Lead Company. (See Brinker, Frederick, assignor.)  
 National Lead Company. (See Brown, Sydney L., assignor.)  
 National Lead Company. (See Linhardt, John H., assignor.)  
 National Lead Company. (See Newnam, William E., assignor.)  
 National Lead Company. (See Thompson, Gustave W., assignor.)  
 National Lead Company. (See Walker, Edward C., assignor.)  
 National Lime Association. (See Underwood, J. E., and Cabell, assignors.)  
 National Lock Co. (See Aldeen, Gedor W., assignor.)  
 National Lock Co. (See Aldeen, Reuben, assignor.)  
 National Lock Co. (See Aldeen, Wilhelm G., assignor.)  
 National Lock Co. (See North, Edwin W., assignor.)  
 National Lock Washer Company, The. (See Bishop, George C., assignor.)  
 National Lock Washer Company, The. (See Cowan, James D., assignor.)  
 National Lock Washer Company. (See Hoyt, Daniel, assignor.)  
 National Lock Washer Company, The. (See Kronauer, Frank C., assignor.)  
 National Lock Washer Company. (See Mohun, J. L., and Piesch, assignors.)  
 National Machinery Co., The. (See Clouse, William L., assignor.)  
 National Machinery Co., The. (See Clouse, W. L., and Jeffries, assignors.)  
 National Malleable and Steel Castings Company. (See Buckius, Albert O., jr., assignor.)  
 National Malleable and Steel Castings Company. (See Campbell, Frank R., assignor.)  
 National Malleable and Steel Castings Company. (See Schmidt, Ernest, assignor.)  
 National Malleable and Steel Castings Company. (See Tilley, Milton, assignor.)  
 National Malleable and Steel Castings Company. (See Wittmer, Russell J., assignor.)



- National Manufacturing Company. (See Bittorf, Louis A., assignor.)
- National Marine Lamp Company, The. (See Armstrong, Henry W., assignor.)
- National Marking Machine Company, The. (See Schramm, Richard, assignor.)
- National Metal and Chemical Bank Limited. (See Stephens, F. G. C., Anderson, and Cash, assignors.)
- National Metal Edge Box Company. (See Escobales, Hilario.)
- National Metal Edge Box Company. (See Irvine, William.)
- National Metal Edge Box Company. (See Wolf, Elias, assignor.)
- National Metal Molding Company. (See Clayton, Martin M., assignor.)
- National Metal Molding Company. (See Felix, Frank C., assignor.)
- National Metal Products Company. (See Bricker, Harry E., assignor.)
- National Oil Lubricating Company. (See Sharp, John C., assignor.)
- National Paper Can Company, The. (See Brooks, Lewis C., assignor.)
- National Paper Process Company. (See Hurley, Albert B., assignor.)
- National Pneumatic Company. (See Casey, Frank E., assignor.)
- National Pneumatic Company. (See Conklin, Roscoe D., assignor.)
- National Pneumatic Company. (See Forman, Paris R., assignor.)
- National Pneumatic Company. (See Johnson, Frank, assignor.)
- National Pneumatic Company. (See Rowntree, Harold, assignor.)
- National Pneumatic Company. (See Rowntree, H., and Vander Vee, assignors.)
- National Products Incorporated. (See Bossard, Theodore, assignor.)
- National Products, Incorporated, The. (See Bossard, Theodore, assignor.)
- National Publishing Company. (See Green, Fred O., assignor.)
- National Pump and Compressor Company. (See Wilson, Edward, assignor.)
- National Radiator Corporation. (See Cowles, H., and Norris, assignors.)
- National Recording Pump Company, The. (See Eickmeyer, Earl E., assignor.)
- National Recording Pump Company. (See Hanna, John P., assignor.)
- National Refining Company, The. (See Fretter, Frank B., assignor.)
- National Refrigerating Company. (See Keyes, Frederick G., assignor.)
- National Refrigeration Corporation. (See Dennison, French E., assignor.)
- National Refrigerator Co. (See Greenburg, Meyer, assignor.)
- National Regulator Co. (See Larson, John M., assignor.)
- National Ring Traveler Co. (See Avery, James H., assignor.)
- National Rubber Machinery Company. (See De Mattia, Barthold, assignor.)
- National Rubber Machinery Company. (See De Mattia, Peter, assignor.)
- National Rubber Machinery Company. (See Kuhlke, Otto J., assignor.)
- National Safety Appliance Company. (See Folker, Howard S., assignor.)
- National Safety Switch Lever Lock Company. (See Cotton, Lee J., assignor.)
- National Seal Company. (See Lee, N., and Stiansen, assignors.)
- National Seal Company. (See Stiansen, Anton P., assignor.)
- National Sewing Machine Company. (See Keeney, Frank H., assignor.)
- National Sewing Machine Company. (See Smith, Walter A., assignor.)
- National Slate Machine Company. (See Gardner, Robert T., assignor.)
- National Sporting Goods Manufacturing Company. (See Stumpe, Walter F., assignor.)
- National Standard Company. (See Alderfer, Sterling W., assignor.)
- National Standard Co. (See Harrah, William F., assignor.)
- National Standard Company. (See Hopkins, Arthur C., assignor.)
- National Standard Company. (See Pierce, Robert C., assignor.)
- National Standard Company. (See Van Lue, William E., assignor.)
- National Steel Construction Co. (See Eisinga, Dirk, assignor.)
- National Supply Company, The. (See Archer, Merton T., assignor.)
- National Supply Company, The. (See Mahan, Joseph R., assignor.)
- National Supply Company, The. (See Picard, John B., assignor.)
- National Supply Company. (See Schwimmer, Frederick J., assignor.)
- National Supply Company, The. (See Williams, Edward H., assignor.)
- National Supply Company. (See Williams, E. H., and Bush, assignors.)
- National Supply Company, The. (See Wright, Dallas E., assignor.)
- National Supply Company, The. (See Young, John A., assignor.)
- National Supply Company of Delaware, The. (See Grau, W. S., and Bishop, assignors.)
- National Supply Company of Delaware, The. (See Timbs, E., and Zerbe, assignors.)
- National Surety Company. (See Kirkegaard, Georg, assignor.)
- National Tile Company, The. (See Jones, L. S., Fisher, and Henriksen, assignors.)
- National Tile Company, The. (See Jones, L. S., Fisher, Henriksen, and Butler, assignors.)
- National Traffic Signal Company. (See Olafson, Alvin O., assignor.)
- National Transit Pump & Machine Co. (See Sharp, Jefferson M., assignor.)
- National Tube Company. (See Baines, Joseph E., assignor.)
- National Tube Company. (See Baines, J. E., and Bosle, assignor.)
- National Tube Company. (See Fell, Charles, assignor.)
- National Tube Company. (See Scholz, Richard, assignor.)
- National Union Radio Corporation. (See Armstrong, Frederick S., assignor.)
- National Vending Machine Company. (See Cole, Cleveland W., assignor.)
- National Vulcanized Fibre Company. (See Shoemaker, William M., Jr., assignor.)
- National Watch & Jewelry Co. (See Ritholz, Benjamin D., assignor.)
- Nattkämper, Paul, Pülkallen, Germany. Paying tile. 1,707,409; Apr. 2.
- Nattress, William E., and C. D. Stout, Statesville, N. C. Spring tie. 1,735,354; Nov. 12.
- Natural Fluid Lift Company, The. (See Foster, Claude W., assignor.)
- Natzel, George H., and F. E. Jackson, Santa Ana, and J. A. Koehl, Los Angeles, Calif.; said Koehl assignor to said Natzel and said Jackson. Ornamental building. 1,713,050; May 14.
- Natzke, Reinol H., assignor to E. Johnson, Chicago, Ill. Screen slide. 1,735,207; Nov. 12.
- Naud, Jack, and S. Moche, Elgin, Ill. Dog race track. 1,703,496; Feb. 26.
- Naugatuck Chemical Company, The. (See Adams, H. S., and Meuser, assignors.)
- Naugatuck Chemical Company, The. (See Bradley, C. E., and Gibbons, assignors.)
- Naugatuck Chemical Company, The. (See Cadwell, Sidney M., assignor.)
- Naugatuck Chemical Company, The. (See McGavack, John, assignor.)
- Naugatuck Chemical Company, The. (See McGavack, J., and Shive, assignors.)
- Naugatuck Chemical Company, The. (See Ostromislensky, Iwan, assignor.)
- Naugatuck Chemical Company, The. (See Owen, Allen F., assignor.)
- Naugatuck Chemical Company, The. (See Reel, J. H., and Cude, assignors.)
- Naugatuck Chemical Company, The. (See Teague, Merwyn C., assignor.)
- Naugle, Girardus G. (See Hoff, C. L., and Naugle.)
- Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors, by mesne assignments, to The Columbia Steel Company, Pittsburgh, Pa. Continuous annealing and cleaning process. 1,704,015; Mar. 5.
- Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors, by mesne assignments, to The Columbia Steel Company, Pittsburgh, Pa. Continuous annealing process. 1,714,040; May 21.
- Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Continuous pickling apparatus. 1,718,063; June 18.
- Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Scale breaker. 1,718,064; June 18.
- Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Continuous annealing apparatus. 1,721,350; July 16.
- Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Continuous annealing and cleaning process. 1,721,351; July 16.
- Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Coil box for rolling mills. 1,721,352; July 16.
- Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Strip-sheet manufacture. 1,736,324; Nov. 19.
- Naugle, Harry M., and A. J. Townsend, Canton, assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Coil holder. 1,740,260; Dec. 17.



- Naugle, John J. (See Ehrhart, Eugene N., assignor.)  
 Naugle, John J., Brooklyn, N. Y. Electric furnace product. 1,701,272; Feb. 5.  
 Naugle, John J., Brooklyn, N. Y. Treating carbonaceous material in an electric furnace or the like. 1,731,473; Oct. 15.  
 Naugle, John J., Brooklyn, N. Y. Treatment of comminuted carbonaceous material and the like in electric furnaces and the like. 1,731,474; Oct. 15.  
 Nauk, Georg, Berlin, Germany, assignor to General Electric Company. Apparatus for winding electric condensers. 1,717,243; June 11.  
 Naum, Harry D., Brooklyn, N. Y. Bottle stopper and applicator. 1,706,249; Mar. 19.  
 Nauman, Anna F., St. Helens, Oreg. Food chopper. 1,707,563; Apr. 2.  
 Naumann, Paul, Dresden-Blasewitz, and K. Weber, Dresden, Germany. Soldering iron. 1,714,615; May 28.  
 Naunton, William J. S. (See Cronshaw, C. J. T., and Naunton.)  
 Nauth, Raymond, Buffalo, N. Y. Electrical apparatus for cauterizing or heating body tissues. 1,724,508; Aug. 13.  
 Nauts, Frank A., assignor to The Gendron Wheel Company, Toledo, Ohio. Scooter. 1,711,121; Apr. 30.  
 Nauwerk, Walter, and E. Walter, Berlin, Germany, assignors to Westinghouse Electric & Manufacturing Company. Antenna system for electric waves. 1,697,133; Jan. 1.  
 Navarre, Paul, Paris, France, assignor to Hobart Manufacturing Co., Troy, Ohio. Automatic basket feeder. 1,736,935; Nov. 26.  
 Nawlasky, Paul. (See Braunsdorf, O., Holzapfel, and Nawlasky.)  
 Nawlasky, Paul, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. 1,4-diamino-2-alkoxy-anthraquinone. 1,736,088; Nov. 19.  
 Nawlasky, Paul, and E. Krauch, Ludwigshafen-on-the-Rhine, assignors to General Aniline Works, Inc., New York, N. Y. New vat dyestuff. 1,729,006; Sept. 24.  
 Naylor, Carl H., et al. (See Harris, Edward M., assignor.)  
 Naylor, Henry R., Derby, assignor to The H. A. Matthews Mfg. Co., Seymour, Conn. Card-table tray. 1,741,136; Dec. 24.  
 Naylor, Jesse R., Portland, Oreg. Spirits-aging apparatus. 1,741,727; Dec. 31.  
 Naylor, Joseph S., Oak Park, Ill. Stock and poultry marker. 1,699,012; Jan. 15.  
 Naylor, Leslie W., Florence, assignor to Continental Oil Company, Denver, Colo. Dewaxing oils. 1,722,307; July 30.  
 Naylor Radio Corporation. (See Sears, Sterling G., assignor.)  
 Naylor, William K., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator structure. 1,725,097; Aug. 20.  
 Naylor, William S., Spokane, Wash. Dispensing and measuring device. 1,741,476; Dec. 31.  
 Neady, Scott H., assignor to Landis Tool Company, Waynesboro, Pa. Reciprocating spindle and automatic wheel feed. 1,707,173; Mar. 26.  
 Neahr, Jacob E., Hartsdale, N. Y. Combined smoker's set. Des. 77,496; Jan. 15.  
 Neahr, Jacob E., Hartsdale, N. Y. Tobacco-users' stand. 1,727,113; Sept. 3.  
 Neahr, Jacob E., Hartsdale, N. Y. Match safe. 1,733,552; Oct. 29.  
 Neahr, Will C., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Steel-condition-determining apparatus. 1,728,358; Sept. 17.  
 Neal, Benjamin F., Council Bluffs, Iowa. Scooter. 1,732,374; Oct. 22.  
 Neal, Clarence A., Rockmart, Ga. Packing. 1,720,563; July 9.  
 Neal, Chester T., Springfield, Mass., assignor, by mesne assignments, to the Stuebing-Cowan Company, Cincinnati, Ohio. Control mechanism for use in electric controllers. 1,727,781; Sept. 10.  
 Neal, Earl S., Dallas, Tex. Liquid warmer. 1,705,835; Mar. 19.  
 Neal, Ernest B., Wollaston, assignor to Kinney Manufacturing Co., Boston, Mass. Distributor for asphalt and the like. 1,725,412; Aug. 20.  
 Neal, Franklin G. (See Welcker, Rudolph, assignor.)  
 Neal, Haldimand W., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Inclosed switch. 1,726,676; Sept. 3.  
 Neal, Harry B., Cleveland, Ohio. Deposit box for newspapers and magazines. 1,733,271; Oct. 29.  
 Neal, Harry W., assignor to Hall-Neal Furnace Company, Indianapolis, Ind. Fin radiator for warm-air furnaces. 1,716,083; June 4.  
 Neal, Harry W., assignor to Hall-Neal Furnace Company, Indianapolis, Ind. Furnace base. 1,728,072; Sept. 10.  
 Neal, James H., Cambridge, Mass. Portable radio receiving apparatus. 1,712,158; May 7.  
 Neal, Robert A., Cape Girardeau, Mo. Suspender loop. 1,701,694; Feb. 12.  
 Neale, Charles C., assignor to Toledo Scale Company, Toledo, Ohio. Advertising scale. 1,706,539; Mar. 26.  
 Neale, John, London, England. Selenium cell. 1,728,073; Sept. 10.  
 Neale, John, London, England. Electrical measuring instrument. 1,729,517; Sept. 24.  
 Nearing, Dudley W., assignor to The New Departure Manufacturing Company, Bristol, Conn. Ball-bouncing apparatus. 1,704,056; Mar. 5.  
 Nebel, Abraham L. (See Elias, Max, assignor.)  
 Nebel, Albin C., Amsterdam, N. Y. Knitting machine. 1,742,048; Dec. 31.  
 Nebel, Berthold, New York, N. Y. Machine for enlarging and reducing forms. 1,714,984; May 28.  
 Nebel, Charles N., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Power-line carrier-current system. 1,733,553; Oct. 29.  
 Nebel, Ernst O., Philadelphia, Pa. Stocking. Des. 77,975; Mar. 12.  
 Nebel, Ernst O., Philadelphia, Pa. Stocking. Des. 78,118; Mar. 26.  
 Nebel, Oscar, Hatboro, assignor to Philadelphia Metal Drying Form Company, Philadelphia, Pa. Hosiery-drying form. 1,707,447; Apr. 2.  
 Nebraska Printing Company. (See Gearing, Harry, assignor.)  
 Necker, Frederick T., Kew Gardens, Long Island, N. Y. Display and decorating device. 1,722,441; July 30.  
 Nedelec, Corentin, Celtic, Saskatchewan, Canada. Safety pole cap. 1,727,615; Sept. 10.  
 Nederlandsche Technische Handel Maatschappij "Giro." (See Otto, Wolfgang, assignor.)  
 Neeb, Samuel, Milwaukee, Wis. Pocket syringe. 1,738,961; Dec. 10.  
 Neebe, Lawrence L. (See Brennan, E. J., and Neebe.)  
 Neebe, Lawrence L., Woodbury, N. J. Locomotive fire box. 1,704,624; Mar. 5.  
 Neebe, Lawrence L., Woodbury, N. J. Valve-motion bearer cross-tie for locomotives. 1,707,174; Mar. 26.  
 Neebe, Lawrence L., Woodbury, N. J. Guide-bearer cross-tie for locomotives. 1,721,466; July 16.  
 Needham, Charles E., Allentown, Pa., assignor to Bethlehem Foundry & Machine Company. Grinding mill. 1,731,788; Oct. 15.  
 Needham, H. (See Porter, Hugh B., assignor.)  
 Needham, John T., North Plainfield, N. J. Carrier for pneumatic-dispatch-tube systems. 1,732,242; Oct. 22.  
 Needham, Oran C., Fort Worth, Tex. Sucker-rod elevator. 1,726,116; Aug. 27.  
 Needham, William H. (See Ham, N. E., and Needham.)  
 Needle, George, Coventry, and F. W. Lancaster, Birmingham, assignors to The Daimler Company, Limited, Coventry, England. Coating internally of hollow articles with metal. 1,730,087; Oct. 1.  
 Needle, Sam L. (See Panalle, Anatole, assignor.)  
 Neel, Earl J. (See Woods, D. B., and Neel.)  
 Neel, James L., Perry, N. Y. Food-dispensing device. 1,735,355; Nov. 12.  
 Neelands, John R., Los Angeles, Calif. Apron. Des. 79,840; Nov. 5.  
 Neeld, Charles M., Pittsburgh, Pa. Safety gate. 1,711,243; Apr. 30.  
 Neeley, George S., Hartford, assignor of one-half to G. Watkins, Alton, Ill. Safety guard for presses. 1,719,125; July 2.  
 Neelmeier, Wilhelm. (See Bergdolt, A., Neelmeier, and Nocken.)  
 Neelmeier, Wilhelm, Leverkusen, and T. Mocken, Wiesdorf, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dyestuff of the naphthophenazine series obtained from 3-arylamino-1-8-naphthsultam compounds. 1,723,199; Aug. 6.  
 Neely, Albert E., assignor to W. C. Ritchie & Company, Chicago, Ill. Box and its manufacture. 1,717,464; June 18.  
 Neely, Americus, Salinas, Calif. Badge. Des. 78,583; May 21.  
 Neely, Frank R. (See Kleinsmith, H. B., Neely, and Doll.)  
 Neely, H. G., et al. (See Jones, Griffith, assignor.)  
 Neely, William H. (See Thoms, L., and Neely.)  
 Neely, William L., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Bakelized armature coil. 1,697,134; Jan. 1.  
 Neenan, Joseph M., and J. P. Weaver, Charleston, W. Va., assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Width-maintaining means for sheet-glass apparatus. 1,701,161; Feb. 5.  
 Neenan, Michael E., New York, N. Y. Elevator apparatus. 1,721,603; July 23.  
 Nees, Alpheus R. (See Shafor, R. W., Nees, and Brown.)  
 Neff, Andrew, Pittsburgh, Pa., assignor to Charles B. Knox Gelatine Company, Incorporated. Communiting gelatine. 1,735,356; Nov. 12.  
 Neff, Frank. (See Bloom, N., and Neff.)  
 Neff, Frank H., South Euclid, assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail bond. 1,713,912; May 21.  
 Neff, Joseph. (See Bloom, N., and Neff.)  
 Neff, Russell M., assignor to Detroit Steel Products Company, Detroit, Mich. Spring suspension for vehicles. 1,714,101; May 21.  
 Negrini, Bruno, Bologna, Italy. Roller shutter for ship fronts, doors, windows, and the like. 1,720,850; July 16.  
 Negro, Luigi, Bucharest, Rumania. Apparatus for the treatment of wheat. 1,699,441; Jan. 15.  
 Neher, Chas. R. (See Roatan, James T., assignor.)  
 Nehls, Charles H., Indianapolis, Ind., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Tire carrier. 1,733,357; Oct. 29.



- Nehls, Walter, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Device for cleaning the cathode mercury in large rectifiers. 1,729,450; Sept. 24.
- Nehrke, Charles F., New York, N. Y. Radioindicator. 1,713,001; May 14.
- Neiberger, Edwin A., Elmhurst, Ill. Screen-wire binder. 1,698,145; Jan. 8.
- Neidich, George G. (See Neidich, Samuel A. and G. G.)
- Neidich, George G., Nutley, N. J. Carbon-sheet carton. 1,714,314; May 21.
- Neidich, Samuel A., Edgewater Park, N. J. Transfer web. 1,700,415; Jan. 29.
- Neidich, Samuel A., Edgewater Park, N. J. Textile fabric. 1,717,117; June 11.
- Neidich, Samuel A., Edgewater Park, N. J. Apparatus for dehydrating viscose products. 1,717,118; June 11.
- Neidich, Samuel A. and G. G., Edgewater Park, N. J. Carbon-paper-roll-trimming mechanism. 1,714,395; May 21.
- Neidlinger, George H., assignor to Peerless Tube Company, Bloomfield, N. J. Feed mechanism. 1,741,033; Dec. 24.
- Neidlinger, Susan L., executrix. (See Lovejoy, Dimmitt R.)
- Neighbour, Arthur G. L., Brighton, Victoria, Australia. Magneto ignition machine. 1,709,996; Apr. 23.
- Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Manure spreader. 1,697,285; Jan. 1.
- Neikirk, John O. (See Hindahl, D. and Neikirk.)
- Neikirk, John O., and D. Hindahl, Chicago, Ill. Brake-release mechanism for railway cars. 1,736,048; Nov. 19.
- Neikirk, John O., Lombard, assignor to Rodger Ballast Car Company, Chicago, Ill. Dump car. 1,710,889; Apr. 30.
- Neil, Edmund B., Philadelphia, Pa. Lamp. 1,705,065; Mar. 12.
- Neil, George H., assignor to Wm. Neil & Co., Chicago, Ill. Pouring spout. 1,714,102; May 21.
- Neil, Richard J., Dalston, London, assignor of one-half to C. W. Rettig, London, England. Cinematograph apparatus. 1,725,595; Aug. 20.
- Neil, Wm., & Co. (See Neil, George H., assignor.)
- Neill, Charles W., Washington, D. C. Traffic-signal-control mechanism. 1,723,062; Aug. 6.
- Neill, Charles W. and T. T. Washington, D. C. Traffic-signal system. 1,723,060; Aug. 6.
- Neill, Charles W. and T. T. Washington, D. C. Traffic-signal-operating mechanism. 1,723,061; Aug. 6.
- Neill, Frank D. (See Binns, W., and Neill.)
- Neill, Thomas T. (See Neill, Charles W. and T. T.)
- Neilsen, Karl P., Long Beach, Calif. Well heating and pumping system. 1,703,428; Feb. 26.
- Neilsen, Karl P., and D. E. Byers, Long Beach, Calif. Multiple-tube inserted pump. 1,717,619; June 18.
- Neilsen, Karl P., Long Beach, assignor of 95 per cent to A. E. Sedgwick, Los Angeles, Calif. Oil-well slip and actuating same. 1,704,057; Mar. 5.
- Neilson, Albert H., Tulsa, Okla. Sucker-rod socket. 1,723,433; Aug. 6.
- Neilson, Albert H., Tulsa, Okla. Sucker-rod rack. 1,729,181; Sept. 24.
- Neilson, Albert H., Tulsa, Okla. Slip socket. 1,734,338; Nov. 5.
- Neilson, Mary D., Minneapolis, Minn. Union suit for men. 1,711,362; Apr. 30.
- Neilson, Robert A., and A. H. Watson, Chicago, Ill.; said Watson, assignor to said Neilson. Self-adjusting collar button. 1,700,446; Jan. 29.
- Nein, Charles L., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Double-acting tail gate for dump trucks. 1,720,429; July 9.
- Nein, Charles L., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Double-acting tail gate for dump trucks. 1,735,408; Nov. 12.
- Neiser, Joseph, Charlotte, N. C. Window-sash fastener. 1,724,216; Aug. 13.
- Neissl, William M., Charleston, Ark. Toothbrush. 1,731,751; Oct. 15.
- Neissl, William M., Charleston, Ark. Shaving brush. 1,734,873; Nov. 5.
- Neissl, William M., Charleston, Ark. Toothbrush. 1,739,324; Dec. 10.
- Neklutin, Constantine N., St. Louis, Mo., assignor, by mesne assignments, to Universal Match Corporation. Match-making machine. 1,739,516; Dec. 17.
- Neldner, Stephen W., assignor to T. M. Neldner, Milwaukee, Wis. Electrical time switch. 1,703,590; Feb. 26.
- Neldner, Therese M. (See Neldner, Stephen W., assignor.)
- Neller, Albert H. (See Louden, W., and Neller.)
- Nell, James A., New Britain, Conn. Instrument for drafting. 1,708,551; Apr. 9.
- Nelsen, John H. (See Parr, S. W., and Nelsen.)
- Nelson, John, assignor, by mesne assignments, to Automatic Washer Company, Newton, Iowa. Reversible water board. 1,699,203; Jan. 15.
- Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Furnace. 1,710,234; Apr. 23.
- Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Positioning fixture. 1,713,778; May 21.
- Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Molding apparatus. 1,716,792; June 11.
- Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 1,731,904; Oct. 15.
- Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 1,732,414; Oct. 22.
- Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Piston. 1,739,605; Dec. 17.
- Nelson, Adolph O., Chicago, Ill. Thermostatic valve control. 1,711,901; May 7.
- Nelson, Andrew S., Maple Plain, Minn. Plow. 1,732,482; Oct. 22.
- Nelson, Anton R., San Francisco, Calif., assignor to The Wahl Company, Chicago, Ill. Autocontrolled continuously-fed magazine pencil. 1,716,354; June 4.
- Nelson, Arne T., Highland Park, Mich. Window regulator. 1,718,484; June 25.
- Nelson, Arthur W., Williamsport, Pa. Window sash. 1,699,013; Jan. 15.
- Nelson, Arthur W., Park Ridge, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,732,768; Oct. 22.
- Nelson, Arthur W., Park Ridge, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,732,769; Oct. 22.
- Nelson, Arvid, assignor to Hamilton Aero Manufacturing Company, Milwaukee, Wis. Cowl for propeller hubs. 1,730,742; Oct. 8.
- Nelson, Carl B., San Pedro, Calif. Gas saver. 1,729,398; Sept. 24.
- Nelson, Carl E., Niagara, Wis. Hydraulic flexible coupling. 1,734,043; Nov. 5.
- Nelson, Carl J., Berkeley, Mich. Guard for shaper heads. 1,721,708; July 23.
- Nelson, Claude A. (See Thomas, T. H., and Nelson.)
- Nelson, Claude A., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train-control device. 1,720,288; July 9.
- Nelson, Charles E. (See Knuuti, C. O., and Nelson.)
- Nelson, Charles I., Marysville, Wash., assignor of one-half to J. G. Groves, Brooder. 1,702,665; Feb. 19.
- Nelson, Charles P., Santa Monica, Calif. Hose clamp. 1,735,932; Nov. 19.
- Nelson, Christ B., Cleveland, Ohio. Turning toaster. 1,724,217; Aug. 13.
- Nelson, Clifford, Sheffield, England. Furnace. 1,718,798; June 25.
- Nelson, Crescent F., New Dorp, assignor to The Western Union Telegraph Company, New York, N. Y. Cable telegraphy. 1,724,803; Aug. 13.
- Nelson, Daniel, Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Packaging merchandise and knockdown box therefor. 1,713,087; May 14.
- Nelson, Daniel, Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Folding box. 1,739,853; Dec. 17.
- Nelson, Edward L. (See Oswald, A. A., and Nelson.)
- Nelson, Edward L., and A. A. Oswald, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Radio transmitting circuit. 1,710,235; Apr. 23.
- Nelson, Emil A. (See Pierce, Hodgson S., assignor.)
- Nelson, Emil A., Detroit, Mich. Making blind nuts. 1,715,142; May 28.
- Nelson, Emil A., Detroit, Mich. Connecting rod. 1,724,302; Aug. 13.
- Nelson, Emil A., Detroit, assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Forming wheel disks. 1,698,373; Jan. 8.
- Nelson, Emil A., Detroit, Mich., assignor to Motor Wheel Corporation, Lansing, Mich. Forming wheel-hub shells. 1,704,369; Mar. 5.
- Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Multiple-wheel structure. 1,721,278; July 16.
- Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Demountable disk wheel. 1,721,313; July 16.
- Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Blank-serving apparatus for rolling mills. 1,739,854; Dec. 17.
- Nelson, Ernest G., Jr., assignor to Hartford-Empire Company, Hartford, Conn. Pneumatic glass circulator. 1,721,968; July 23.
- Nelson, Ernest L., assignor to Belden Manufacturing Company, Chicago, Ill. Broom. 1,730,677; Oct. 8.
- Nelson, Frederick M., Los Angeles, Calif. Door latch. 1,723,063; Aug. 6.
- Nelson, Frederick M., Los Angeles, Calif. Door lock. 1,723,064; Aug. 6.
- Nelson, Frithiof, Rockford, Ill. Knitting machine and the like. 1,740,618; Dec. 24.
- Nelson, George, Toronto, Ontario, Canada. Twisted-wire-looped brush. 1,711,741; May 7.
- Nelson, George F., Berkeley, Calif. Pump. 1,701,792; Feb. 12.
- Nelson, George W., Cleveland, assignor to The Stewart Machine Company, Elyria, Ohio; A. J. Curren, trustee of said The Stewart Machine Company, defunct. Vending machine. 1,708,234; Apr. 9.
- Nelson, Gordon W., Philadelphia, Pa. Reclaiming mats for newspaper or other printing. 1,713,913; May 21.
- Nelson, Gus H., and A. R. Thatcher, Omaha, Nebr. Waxing machine. 1,739,983; Dec. 17.
- Nelson, Gustavus E., Springfield, Ill. Artificial bait. 1,740,521; Dec. 24.



- Nelson, Harmon O., assignor to Whitin Machine Works, Whitinsville, Mass. Reverse-spindle driving mechanism for spinning frame. 1,709,145; Apr. 16.
- Nelson, Harry T., Dallas, Tex. Aerial projecting device. 1,711,122; Apr. 30.
- Nelson, Harry T., Dallas, Tex. Helicopter or flying toy. 1,729,007; Sept. 24.
- Nelson, Henry M., Minneapolis, Minn., assignor to G. B. Shaw, Eau Claire, Wis. Lens. 1,735,208; Nov. 12.
- Nelson, Henry M., Minneapolis, Minn., assignor to G. B. Shaw, Eau Claire, Wis. Lens. 1,735,209; Nov. 12.
- Nelson, Herman, Corporation. (See Otis, G. E., and Shurtleff, assignors.)
- Nelson, James C., Schenectady, N. Y., assignor to The S O & C Company, Ansonia, Conn. Package. 1,709,034; Apr. 16.
- Nelson, Jabez C., and P. E. Geldhof, assignors to Syracuse Washing Machine Corporation, Syracuse, N. Y. Combined clothes washer and drier. 1,720,851; July 16.
- Nelson, Jessie M., New York, N. Y. Toy bank. Des. 80,040; Dec. 3.
- Nelson, John, Boston, Mass. Making sign hooks. 1,714,805; May 28.
- Nelson, John, Ericson, Nebr. Automatic transmission mechanism. 1,736,663; Nov. 19.
- Nelson, John, assignor, by mesne assignments, to Automatic Washer Company, Newton, Iowa. Combination washing and drying machine. 1,705,779; Mar. 19.
- Nelson, John, assignor to Marquette Tool & Manufacturing Company, Chicago, Ill. Blank-holding means for sheet-metal presses. 1,714,315; May 21.
- Nelson, John C., assignor to Nelson Spreader Tie Company, Minneapolis, Minn. Combination tie and spreader for concrete molds. 1,712,631; May 14.
- Nelson, John C., Erie, Pa., assignor to The O. K. Garage, Inc., Paterson, N. J. Tool. 1,724,509; Aug. 13.
- Nelson, John F., Forest Park, Ill. String-instrument tuning peg. 1,725,098; Aug. 20.
- Nelson, John N. (See Beatty, E. J. R., and Nelson.)
- Nelson, John N., assignor to Universal Optical Corporation, Providence, R. I. Spectacle temple. Des. 78,778; June 18.
- Nelson, John N., assignor to Universal Optical Corporation, Providence, R. I. Bridge member for an ophthalmic mounting. Des. 79,527; Oct. 1.
- Nelson, John N., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,701,332; Feb. 5.
- Nelson, John N., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,713,546; May 21.
- Nelson, John N., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,741,199; Dec. 31.
- Nelson, John O., Topeka, Kans. Clock setting mechanism. 1,720,685; July 16.
- Nelson, Joseph, Salt Lake City, Utah. Cutting pipe. 1,727,406; Sept. 10.
- Nelson, Lewen R., Peoria, Ill. Lawn sprinkler. 1,697,203; Jan. 1.
- Nelson, Lewen R., Peoria, Ill. Lawn sprinkler. 1,716,733; June 11.
- Nelson, Lewis D., Coldwater, Mich., assignor to Bates Valve Bag Corporation, Chicago, Ill. Filling machine. Re17,316; June 4.
- Nelson, Martin L. (See Richardson, R. G., and Nelson.)
- Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multi-office telephone system. 1,705,833; Mar. 19.
- Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,710,182; Apr. 23.
- Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,711,205; Apr. 30.
- Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multi-office telephone system. 1,729,854; Oct. 1.
- Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Trouble-indicating system. 1,733,466; Oct. 29.
- Nelson, Martin L., Park Ridge, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Testing apparatus. 1,734,948; Nov. 5.
- Nelson, Nels, Spokane, Wash. Salvaging equipment. 1,710,103; Apr. 23.
- Nelson, Nels A., assignor, by mesne assignments, to Simplicity Engine & Manufacturing Company, Port Washington, Wis. Portable boring and grinding machine. 1,708,798; Apr. 9.
- Nelson, Nels B., Elgin, Ill. Necktie. 1,721,871; July 23.
- Nelson, Nels H., Des Moines, Iowa. Awning. 1,701,793; Feb. 12.
- Nelson, Nels H., Des Moines, assignor to The Rolcreen Company, Pella, Iowa. Rolling screen. 1,715,853; June 4.
- Nelson, Nels H., Des Moines, Iowa. Awning. 1,719,303; July 2.
- Nelson, Nels T., Attleboro, assignor to J. F. Sturdy's Sons Company, Attleboro Falls, Mass. Extension device. 1,739,688; Dec. 17.
- Nelson, Oliver J., assignor to Bryte-Nelson Refining Company, St. Louis, Mo. Reclaiming lubricating oils. 1,735,440; Nov. 12.
- Nelson, Oscar E., Ada, Kans. Wagon box. 1,704,574; Mar. 5.
- Nelson, Oscar V., Racine, Wis. Combination screen and storm door. 1,714,920; May 28.
- Nelson, Pear, Akron, Ohio. Dumping vehicle. 1,709,364; Apr. 16.
- Nelson, Ralph A., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Production of benzidine and derivatives. 1,718,373; June 25.
- Nelson, Reynold G., assignor to The Spun Steel Corporation, Canton, Ohio. Pulley. 1,700,416; Jan. 29.
- Nelson, Reynold G., assignor to The Spun Steel Corporation, Steel Corporation, Canton, Ohio. Metal-spinning apparatus. 1,728,002; Sept. 10.
- Nelson, Robert A., assignor to The Standard Envelope Manufacturing Company, Cleveland, Ohio. Window attachment for envelope-folding machines. 1,737,608; Dec. 3.
- Nelson, Roy A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Door-latch structure. 1,701,932; Feb. 12.
- Nelson Spreader Tie Company. (See Nelson, John C., assignor.)
- Nelson, Stanley F. (See Morris, R. W., and Nelson.)
- Nelson, Stanley F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Operator's telephone circuit. 1,718,301; June 25.
- Nelson, Sven T., Chicago, Ill., assignor to Sullivan Machinery Company, Furnace. 1,703,776; Feb. 26.
- Nelson, Swan P., Minneapolis, Minn. Clothes-drying rack. 1,713,673; May 21.
- Nelson, Theodore J., assignor to Colonial Lamp & Fixture Works, Inc., Chicago, Ill. Lighting fixture. 1,737,018; Nov. 26.
- Nelson, Theodore J., and E. H. Joseph, assignors to Colonial Lamp & Fixture Works, Inc., Chicago, Ill. Lighting fixture. 1,737,017; Nov. 26.
- Nelson, Victor E., Pontiac, Mich. Packing for shafts. 1,706,181; Mar. 19.
- Nelson, Victor E., Detroit, Mich. Grease retainer. 1,708,484; Apr. 9.
- Nelson, Victor E., assignor to Universal Oil Seal Company, Pontiac, Mich. Packing ring. 1,722,473; July 30.
- Nelson, William, Minneapolis, Minn. Pump. 1,738,309; Dec. 3.
- Nelson, William K., Chicago, Ill. Heat and sound insulated construction. 1,732,243; Oct. 22.
- Nelson, William N., Amarillo, Tex. Ash tray. Des. 79,300; Aug. 27.
- Nelson, William S. (See Cunningham, J. C., and Nelson.)
- Nelson, William W., Brookline, Mass. Banjo. 1,705,202; Mar. 12.
- Nelsson, Otto F., Poughkeepsie, N. Y. Water heater. 1,706,036; Mar. 19.
- Nembak Building Appliances Co. (See Ballenger, Richard A., assignor.)
- Nemes, Mike J., assignor of one-third to W. A. Hamilton, Steubenville, Ohio. Skull-removing apparatus. 1,712,837; May 14.
- Nemeth, Steffen P., assignor to L. J. Leonneke and H. Bock, copartners doing business as Edmanson-Bock Catering Company, Chicago, Ill. Package-vending machine. 1,741,728; Dec. 31.
- Nennich, Gus, assignor of one-fifth to F. Frederick, New York, N. Y. Sound-reproducing device. 1,731,905; Oct. 15.
- Nenninger, Lester F. (See Ernst, H., and Nenninger.)
- Nenzel Manufacturing Company. (See Nenzel, Joseph F., assignor.)
- Nenzel, Joseph F., Los Angeles, Calif., assignor to Nenzel Manufacturing Company, Wilmington, Del. Lamp. Re17,545; Dec. 31.
- Nepper, Fernand, Brussels, Belgium. Typewriting machine. 1,712,514; May 14.
- Neptune, Femma W., administratrix. (See Neptune, Richard C.)
- Neptune, Herman P., San Diego, Calif. Catch. 1,729,840; Oct. 1.
- Neptune, Richard C., deceased, Mitchell, Ind.; F. W. Neptune, administratrix. Sheet roofing. 1,710,104; Apr. 23.
- Neptune, Richard C., deceased, Mitchell, Ind.; F. W. Neptune, administratrix. Roofing. 1,722,760; July 30.
- Neptune Meter Company. (See Marden, William L., assignor.)
- Neresheimer, Heinrich. (See Lüttringhaus, A., Neresheimer, and Emmer.)
- Neresheimer, Heinrich. (See Lüttringhaus, A., Neresheimer, and Wolff.)
- Neresheimer, Heinrich, Ludwigshafen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuff. 1,703,948; Mar. 5.
- Nernass, Gustav, Hop, near Bergen, Norway. Valve for resilient tubes. 1,710,783; Apr. 30.
- Nerney, Edwin D., assignor to Bay State Optical Company, Attleboro, Mass. Eyeglass construction. 1,701,009; Feb. 5.
- Nero, Arvid H., West Hartford, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,702,220; Feb. 12.
- Nero, Arvid H., West Hartford, assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. 1,704,625; Mar. 5.



- Nero, Arvid H., West Hartford, assignor to The Arrow Electric Company, Hartford, Conn. Strain-relief fitting. 1,704,626; Mar. 5.
- Nero, Arvid H., West Hartford, assignor, by mesne assignments, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Electric-lamp socket. 1,719,779; July 2.
- Neroni, Spartaco, and E. Valoppi, Pittston, Pa. Electric motor. 1,701,051; Feb. 5.
- Nertney, Edward L., North Side Cohoes, N. Y. Ball-game apparatus. 1,715,563; June 4.
- Nesbitt, Arthur E. (See Buckley, J. P., and Nesbitt.)
- Nesbitt, Harold H., Belair, Md. Cooling tank. 1,720,918; July 16.
- Nesbitt, Harold H., Belair, Md. Float mechanism for cooling tanks. 1,720,919; July 16.
- Nesbitt, Harold H., Belair, Md. Shaft seal. 1,720,920; July 16.
- Nesbitt, John J., Inc. (See Henshall, Percival P., assignor.)
- Nesbitt, Oliver T., Kalispell, Mont. Vapor moistener. 1,728,916; Sept. 3.
- Nesbitt, William E. (See Best, H. S., and Nesbitt.)
- Ness, Carl, Chicago, Ill. Collapsible high chair. 1,730,895; Oct. 8.
- Ness, Harold J., Jersey City, N. J., assignor, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio. Engine piston. 1,699,621; Jan. 22.
- Ness, Harold J., Jersey City, N. J., assignor, by mesne assignments, to The Cleveland Trust Company, Cleveland, Ohio. Engine piston. 1,699,622; Jan. 22.
- Ness, William H. C., assignor to Master Fan Corporation, Los Angeles, Calif. Electrical air conditioning and circulating device. 1,716,791; June 11.
- Nessler, Charles G., assignor to The Nestle-Le Mur Company, New York, N. Y. Heater for waving hair. Re17,536; Dec. 24.
- Nessler, Charles, Palisades, N. Y. Combined filament stretching and timing article. Des. 80,041; Dec. 3.
- Nessler, Charles, assignor to The Nestle-Le Mur Company, New York, N. Y. Means pertaining to permanent waving of hair. 1,712,225; May 7.
- Nessler, Charles, assignor to The Nestle-Le Mur Company, New York, N. Y. Method pertaining to permanent waving of hair. 1,724,303; Aug. 13.
- Nestle-Le Mur Company, The. (See Lewis, Wilbur S., assignor.)
- Nestle-Le Mur Company, The. (See Murray, John C., assignor.)
- Nestle-Le Mur Company, The. (See Nessler, Charles, assignor.)
- Nestle-Le Mur Company, The. (See Nessler, Charles G., assignor.)
- Nestor, Joseph P., Lykens, Pa. Expansible reamer. 1,730,231; Oct. 1.
- Neth, George J., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,699,708; Jan. 22.
- Neth, George J., assignor to The Egly Register Company, Dayton, Ohio. Autographic registers. 1,716,560; June 11.
- Neth, George J., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,722,477; July 30.
- Nethercut, Edgar S. (See Colman, H. D., and Peterson, assignors.)
- Nethercut, Edgar S. (See Colman, Howard D., assignor.)
- Nettleton, Lewis L., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Microphone. 1,704,098; Mar. 5.
- Nettleton, Lewis L., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train signal device. 1,714,041; May 21.
- Netzhammer, Etta, St. Louis, Mo. Dishwashing machine. 1,710,834; Apr. 30.
- Neubacher, Emil. (See Schmidt, M., and Neubacher.)
- Neubecker, William, Buffalo, N. Y. Foldable window sash. 1,735,649; Nov. 12.
- Neubert, Oskar, Leverkusen, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Water soluble substance containing colloidal silver chloride. 1,734,269; Nov. 5.
- Neuberth, George E., assignor to Pipe & Tube Bending Corporation of America, Newark, N. J. Making rings from tubing. 1,728,897; Sept. 17.
- Neuerburg'sche Verwaltungsgesellschaft m. b. H., Gereons-haus. (See Schünemann, Heinrich, assignor.)
- Neufeldt & Kuhnke Betriebsgesellschaft m. b. H. (See Rother, Erich, assignor.)
- Neugass, Miriam N., New York, N. Y. Doll. Des. 78,957; July 9.
- Neugebauer, Wilhelm. (See Schmidt, M. P., and Neugebauer.)
- Neubaus, Karl, assignor to A. Krah, Gleiwitz, Germany. Ingot-heating furnace. 1,738,841; Dec. 10.
- Neunkirchen, Peter, Butternut, Wis. Target. 1,709,186; Apr. 16.
- Neuland, Alfons H., Irvington, N. J. Power-control system. 1,741,428; Dec. 31.
- Neumaier, Eugene, New York, N. Y. Curtain. Des. 77,368; Jan. 1.
- Neumaier, Eugene, New York, N. Y. Curtain. Des. 77,369; Jan. 1.
- Neumair, Joseph A., St. Albans, and H. H. Wheeler, Brooklyn, N. Y., assignors to International Cigar Machinery Company. Package-end-folding device. 1,721,527; July 23.
- Neuman, Jacob J. (See Andrews, N. R., and Neuman.)
- Neuman, Nathan, Philadelphia, Pa. Sweater. 1,705,092; Mar. 12.
- Neuman, Nathan, Philadelphia, Pa. Sweater. 1,715,943; June 4.
- Neuman, Porter. (See Camden, Andrew B., assignor.)
- Neumann, Fritz, Nuremberg, Germany. Water-ring pump. 1,711,902; May 7.
- Neumann, Herbert, Elgin, assignor of one-third to P. A. Reiche, Dundee, and one-third to H. R. Baldwin, Carpentersville, Ill. Cluster basket. 1,715,423; June 4.
- Neumann, Josef, Milwaukee, Wis. Trolley wheel. 1,740,619; Dec. 24.
- Neumann, R., & Company. (See Wurm, Henry G., assignor.)
- Neumann, Theodore L., assignor to The Dayton Paper Novelty Company, Dayton, Ohio. Terrace display means for paper boxes. 1,720,136; July 9.
- Neumann, Werner, Rappen, Germany. Filter apparatus. 1,708,704; Apr. 9.
- Neumark, Bernard, Joliet, Ill. Clothes-dipping apparatus for dyeing and cleaning. 1,727,725; Sept. 10.
- Neumark, Hans, Frankfort-on-the-Main, Germany. Working up solutions obtained by leaching ores having been subjected to a chlorination roasting process. 1,720,138; July 9.
- Neumerkel, Max, Madison, Conn. Adjustable wrench. 1,723,574; Aug. 6.
- Neuner, Fred W. C., assignor to Indiana Lamp Corporation, Connersville, Ind. Lamp mounting. 1,706,459; Mar. 26.
- Neuner, Frederick W. C., assignor to Indiana Lamp Corporation, Connersville, Ind. Reflector-supported light-socket mounting. 1,696,965; Jan. 1.
- Neuner, Frederick W. C., assignor to Indiana Lamp Corporation, Connersville, Ind. Lamp body and door fastening. 1,720,892; Oct. 1.
- Neureuther, Andrew H., Peru, Ill. assignor to Western Clock Company. Machine for manufacturing and mounting pinions and wheels. 1,709,146; Apr. 16.
- Neusis, William, Yorkville, Ill. Harrow attachment for tractors. 1,707,410; Apr. 2.
- Neustadter Brothers. (See Davis, Simon E., assignor.)
- Neutype Instrument Company. (See Hein, George N., assignor.)
- Nevala, August E., Sebek, Minn. Manure conveyer for barns. 1,722,673; July 30.
- Neverbreak Trunk Company. (See Langmuir, Frank H., assignor.)
- Neven, Gustavo, assignor of forty per cent to B. Luchsinger, Santiago, Chile. Magneto coupling. 1,738,962; Dec. 10.
- Nevill, Frank I., Houston, Tex. Working valve and plunger for deep-well pumps. 1,703,354; Feb. 26.
- Nevill, Gale E., Houston, Tex. Device for recording deviation from the vertical in wells. 1,704,543; Mar. 5.
- Neville Chemical Company. (See Emery, Ralph L., assignor.)
- Neville, George W., assignor of one-half to G. Royle, jr., Philadelphia, Pa. Jacquard-card-punching machine. 1,732,982; Oct. 22.
- Nevin, Donald A., assignor to Autodex Co., Waynesboro, Pa. Card-indexing device. 1,739,168; Dec. 10.
- Nevin, William L., assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Chair. Des. 80,085; Dec. 10.
- Nevins, Charles A., assignor to Doherty Research Company, New York, N. Y. Valve. 1,714,690; May 28.
- Newark Concrete Pipe Co. (See Sherrerd, Francis H., assignor.)
- New Beeman Tractor Company, The. (See Peters, Cornelius A., assignor.)
- Newbery, Ivor B., Buffalo, assignor to Lignite Products Corporation of America, Castile, N. Y. Retort. 1,734,774; Nov. 5.
- Newberry, James F. (See Oakley, H., and Newberry.)
- Newbold, Harry, London, England. Spectacles or the like. 1,738,606; Dec. 10.
- Newbound, Percy S., London, England. Manicuring appliance. 1,709,591; Apr. 16.
- Newbound, Reginald. (See Warren, H. W. H., and Newbound.)
- New Britain Machine Company, The. (See Brown, Robert S., assignor.)
- New Britain Machine Company. (See Brown, R. S., and Montstream, assignors.)
- New Britain Machine Company, The. (See Costello, William F., assignor.)
- New Castle Refractories Company. (See Morris, G. D., and Klein, assignors.)
- New Century Spring Corporation. (See Doty, William W., assignor.)
- Newcomb, Edward C., and E. O. Reynolds, South Bend, Ind., assignors to The Studebaker Corporation, Detroit, Mich. Brake. 1,726,712; Sept. 3.
- Newcomb, Everett S., Cleveland, Ohio, assignor to Charles Engelhard, Inc. Temperature-regulating system. 1,719,441; July 2.
- Newcomb, Harry E., et al. (See Savage, Basil H., assignor.)
- Newcomb, Mattie M. (See Phipps, John T., assignor.)



- Newcomb, Ralph W., Green Village, N. J., assignor to Charles Engelhard, Inc. Temperature-controlling system. 1,720,231; July 9.
- Newcomb, Richard, Denver, Colo. Portable form for concrete stairs. 1,703,633; Feb. 26.
- Newcombe, Fred, Providence, R. I. Loose-reed-adjusting mechanism for looms. 1,709,867; Apr. 23.
- Newcombe-Hawley, Inc. (See Andres, Paul G., assignor.)
- Newcomer, Ernest J., et al. (See Gillis, Lyle N., assignor.)
- New Departure Manufacturing Company, The. (See De-laval-Crow, Thomas C., assignor.)
- New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignor.)
- New Departure Manufacturing Company, The. (See Nearing, Dudley W., assignor.)
- New Departure Manufacturing Company. (See Vuilleumier, Albert, assignor.)
- Newdick, Norton A., assignor to The Coloder Company, Columbus, Ohio. Loading machine. 1,702,519; Feb. 19.
- Newdick, Norton A., Columbus, Ohio. Loading machine. 1,706,313; Mar. 19.
- Newdick, Norton A., assignor to The Coloder Company, Columbus, Ohio. Loading machine. 1,715,469; June 4.
- Newell, Floyd B., assignor to Taylor Instrument Companies, Rochester, N. Y. Instrument for testing the capacity of the lungs. 1,729,294; Sept. 24.
- Newell, Fred, Montreal, Quebec, Canada. Regulating head and sluice gate. 1,719,076; July 2.
- Newell, John Q., and F. Redpath, McAlester, Okla. Folding chair. 1,721,164; July 16.
- New Engineering Construction Company. (See Williams, G. B., and Porter, assignors.)
- New England Mica Co. (See Cooper, Henry W., assignor.)
- New England Trust Company, The, trustee. (See Parks, Edward F., assignor.)
- New England Wood Heel Co. (See Shaw, Wesley J., assignor.)
- New England Wood Heel Co. (See Taylor, Archie R., assignor.)
- New Era Iron and Steel Corporation. (See Simpson, Leo L., assignor.)
- Newe, Robert A., et al. (See Taylor, Dewey L., assignor.)
- Newhall, Henry B., Corporation. (See Pleister, Henry W., assignor.)
- Newhall, Henry B., Corporation. (See Pleister, H. W., and Karitzky, assignors.)
- Newhall, Henry B., Plainfield, N. J. Method and inclinable apparatus for coating metal articles. 1,727,354; Sept. 10.
- New Haven Clock Co., The. (See Porter, Wilson E., assignor.)
- New Haven Sand Blast Company, The. (See Billings, Clarence E., assignor.)
- New Haven Sand Blast Company, The. (See Fatscher, George C., assignor.)
- New Haven Sand-Blast Company, The. (See Fatscher, G. C., and Billings, assignors.)
- New Haven Sherardizing Company, The. (See Johnson, John E., assignor.)
- New-H-Man Corporation. (See Mutch, George A., assignor.)
- Newhouse, Jack, Buffalo, N. Y. Chambered photo gravestone. 1,737,474; Nov. 26.
- Newhouse, Milford J., Oneida, N. Y., assignor, by mesne assignments, to Animal Trap Company of America, Lititz, Pa. Animal trap. 1,708,149; Apr. 9.
- Newhouse, R. H., et al. (See Boland, Virgil E., assignor.)
- Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gyrotory comminutor. 1,704,335; Mar. 5.
- Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and apparatus for burning pulverized fuel. 1,706,360; Mar. 19.
- Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting mill. 1,710,666; Apr. 23.
- Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting mill. 1,739,855; Dec. 17.
- New Idea Spreader Co., The. (See Oppenheim, T. H., and Selhorst, assignors.)
- New Idea Spreader Company, The. (See Synck, Henry, assignor.)
- Newill, Edward B., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-control system. 1,728,302; Sept. 17.
- Newill, Edward B., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator structure. 1,730,232; Oct. 1.
- Newitt, Frank T., Plattville, and S. H. La Plant and L. I. Turner, Salida, assignors to The L. T. N. Manufacturing & Development System, Plattville, Colo. System for the production of oil gas. 1,701,892; Feb. 12.
- Newitt, Frank T., Plattville, S. H. La Plant, and L. I. Turner, Salida, assignors to The L. T. N. Manufacturing & Development System, Plattville, Colo. Apparatus for producing oil gas. 1,715,775; June 4.
- Newitt, Frank T., Plattville, S. H. La Plant, and L. I. Turner, Salida, assignors to The L. T. N. Manufacturing & Development System, Plattville, Colo. Apparatus for the production of gaseous fuel. 1,715,776; June 4.
- New Jersey Machine Corporation. (See Fleischer, P. W., and Lambelet, assignors.)
- New Jersey Sand and Gravel Company. (See Hause, F. E., and Zollinger, assignors.)
- New Jersey Zinc Company, The. (See Breyer, Frank G., assignor.)
- New Jersey Zinc Company, The. (See Breyer, F. G., and Bunce, assignors.)
- New Jersey Zinc Company, The. (See Farber, Clayton W., assignor.)
- New Jersey Zinc Company, The. (See Peirce, W. M., and Anderson, assignors.)
- Newkirk, Edgar D., Syracuse, N. Y. Can opener. 1,698,605; Jan. 8.
- Newkirk, Edgar H., Oklahoma City, Okla. Inside fishing tool. 1,712,898; May 14.
- Newkirk, Edgar H., Oklahoma City, Okla. Outside fishing tool for use in deep wells. 1,738,789; Dec. 10.
- Newkirk, Harry E., Wilmington, N. C. Lifting jack. 1,706,361; Mar. 19.
- Newkirk, William B. (See Ebert, C., Newkirk, and Moskowitz.)
- Newkirk, William B., Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del. Manufacture of dextrose. 1,722,761; July 30.
- Newland, Wilfred Y., Small Heath, Birmingham, England. Electrical heating apparatus for liquids. 1,697,732; Jan. 1.
- Newlander, Alfred, Milwaukee, Wis., assignor, by mesne assignments, to E. J. Brach & Sons, Chicago, Ill. Display device. 1,738,259; Dec. 3.
- New Life Preserver Company. (See Petersen, Christen H. A., assignor.)
- Newlin, James C., jr., Bryn Mawr, Haverford Township, Pa. Mailing box. 1,713,547; May 21.
- Newman, A. L., Company. (See Newman, Almyr L., assignor.)
- Newman, Almyr L., Warwick, R. I. Flexible band, chain, or linkage. 1,739,689; Dec. 17.
- Newman, Almyr L., Warwick, assignor to A. L. Newman Company, Providence, R. I. Expandible band, chain, or linkage. 1,701,982; Feb. 12.
- Newman, Arthur S., London, England. Mechanism for operating electrical contacts and other devices. 1,737,264; Nov. 26.
- Newman, Augustus L., Cranston, R. I., assignor, by mesne assignments, to Northern Engraving Company, La Crosse, Wis. Attaching name plates and other articles. 1,736,722; Nov. 19.
- Newman, Charles, New York, N. Y., and E. G. Appleton, assignors to Roach-Appleton Mfg. Company, Chicago, Ill. Box-supporting ear. Re17,222; Feb. 26.
- Newman, Charles, New York, N. Y., and E. G. Appleton, Chicago, Ill., assignors to Roach-Appleton Manufacturing Company, Chicago, Ill. Knock-outs for switch boxes and the like. 1,709,187; Apr. 16.
- Newman, Charles N. (See Caminetti, Anthony, jr., assignor.)
- Newman, Claude M., Chicago, Ill. Invalid's table. 1,729,679; Oct. 1.
- Newman, Clemerd C., Arcanum, Ohio. Cultivator attachment for tractors. 1,727,175; Sept. 3.
- Newman, E. E., et al. (See Nye, Sherman G., assignor.)
- Newman, George W., Chicago, Ill., assignor to Wilson-Jones Company. Record binder. 1,699,907; Jan. 22.
- Newman, George W., Chicago, Ill., assignor to Wilson-Jones Company. Loose-leaf binder. 1,732,584; Oct. 22.
- Newman, H. A., et al. (See Williams, Frank A., assignor.)
- Newman, H. Fred, et al. (See Williams, Frank A., assignor.)
- Newman, Harry C. (See Crooker, E. R., and Newman.)
- Newman, I., & Sons, Inc. (See Kispert, Joseph J., assignor.)
- Newman, Irwin E., Chicago, Ill. Curtain holdback. 1,719,380; July 2.
- Newman, Joseph S., Cleveland, Ohio. Educational device. 1,729,518; Sept. 24.
- Newman, Mortimer Company, The. (See Frankle, Arthur C., assignor.)
- Newman, S. F., and J. G. Harper, assignors to Landis Machine Company, Waynesboro, Pa. Die head. 1,699,373; Jan. 15.
- Newman, Samuel F., assignor to Landis Machine Company, Waynesboro, Pa. Trip for die heads. 1,697,997; Jan. 8.
- Newman, Samuel F., assignor to Landis Machine Company, Waynesboro, Pa. Chaser and holding the same. 1,739,646; Dec. 17.
- Newmann, Herman, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method for use in the manufacture of turned shoes. 1,737,727; Dec. 3.
- Newmann, John, Glendale, N. Y. Gas engine. 1,723,065; Aug. 6.
- New Martinsville Glass Mfg. Co. (See McEldowney, Robert E., assignor.)
- New-Matix Equipment Co., The. (See Dilks, James J., jr., assignor.)
- New Method Stove Company, The. (See Hoffman, George A., assignor.)
- Newnam, William E., Collinsville, Ill., assignor to National Lead Company, St. Louis, Mo. Pig-lead-stacking machine. 1,724,304; Aug. 13.
- New Nap System, Inc. (See Flynn, Mortimer F., assignor.)
- Newnam, Frank, and H. C. Turnham, Los Angeles, Calif. Injector pump. 1,729,794; Oct. 1.



- Newport, Charles F., Chicago, Ill. Sectional boiler. 1,703,894; Mar. 5.
- Newport Company, The. (See Adams, Roger, assignor.)
- Newport Company, The. (See Adams, R., and Moyer, assignors.)
- Newport Company, The. (See Gubelmann, I., and Tinker, assignors.)
- Newport Company, The. (See Gubelmann, I., Weiland, and Stallmann, assignors.)
- Newport Company, The. (See Palmer, Robert C., assignor.)
- Newport Company, The. (See Tinker, J. M., and Gubelmann, assignors.)
- Newport Company, The. (See Weiland, H. J., and Gubelmann, assignors.)
- Newport, Jesse H., Chicago, Ill. Water heater. 1,708,485; Apr. 9.
- Newport Manufacturing Company. (See Schrauth, Walter, assignor.)
- Newport Manufacturing Company. (See Schroeter, G., and Schrauth, assignors.)
- Newport News Shipbuilding and Dry Dock Company. (See Christiansen, Niels, assignor.)
- New Process Metals Corporation. (See Miesse, Richard E., assignor.)
- New Process Multi-Castings Company. (See Harmes, Edward, assignor.)
- New Process Multi-Castings Company. (See Wood, John R., assignor.)
- New River Company, The. (See Graff, Edward, assignor.)
- Newsom, Benjamin F., Kerens, Tex. Cotton-chopper attachment for cultivators. 1,701,893; Feb. 12.
- Newsom, Edward L., New York, N. Y. Bracket for adjustable window ventilators. 1,740,198; Dec. 17.
- Newsom, John B., executor. (See Newsom, John F.)
- Newsom, John F., Palo Alto, Calif. Heat control for cooking devices. 1,702,480; Feb. 19.
- Newsom, John F., Palo Alto, Calif. Process and apparatus for concentrating ores. 1,709,365; Apr. 16.
- Newsom, John F., Palo Alto, Calif. Heat control for gas cookstove. 1,719,991; July 9.
- Newsom, John F., deceased, Palo Alto, Calif.; J. B. Newsom, executor. Ore dredging. 1,719,442; July 2.
- Newsom, Willard, Montgomery, Ala. Sawmill dog. 1,706,310; Mar. 19.
- Newsom, Willard, Montgomery, Ala. Moth eliminator. 1,741,068; Dec. 24.
- Newspaper Stuffing Machine Company, The. (See Halvorsen, Severin, assignor.)
- News Projection Corporation. (See Decker, James W., assignor.)
- News Projection Corporation. (See Proctor, Barton A., assignor.)
- Newton, Albert S., Providence, R. I. Floor drain trap. 1,721,084; July 16.
- Newton, Caleb W. (See Trencham, H., Heath, and Newton.)
- Newton, Charles W., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,725,929; Aug. 27.
- Newton, Dannie E., Jacksonville, Fla. Dispensing device. 1,700,807; Feb. 5.
- Newton, Dudley, and F. A. Holdener, Sacramento, Calif. Fishing tackle. 1,741,034; Dec. 24.
- Newton, Earle R., assignor to Curtis Gas Engine Corporation, New York, N. Y. Power plant. 1,741,729; Dec. 31.
- Newton, Earle R., assignor to Curtis Gas Engine Corporation, New York, N. Y. Power plant. 1,741,730; Dec. 31.
- Newton, Edward C., Los Angeles, Calif. Piston ring. 1,711,244; Apr. 30.
- Newton, Edward G., Pittsfield, Mass., assignor to General Electric Company. Terminal connection for electric apparatus. 1,740,367; Dec. 17.
- Newton, Frank E. (See Crosby, R. S., and Newton.)
- Newton, George F., assignor of one-half to S. Patti, Kansas City, Mo. Key-column clamp. 1,702,307; Feb. 19.
- Newton, James E., Canton, assignor to Central Alloy Steel Corporation, Massillon, Ohio. Apparatus for opening tap holes of open-hearth furnaces and the like. 1,730,678; Oct. 8.
- Newton, James F., assignor to Primrose Tapestry Co. Inc., Philadelphia, Pa. Textile fabric. Des. 79,841; Nov. 5.
- Newton, Milo C., and J. A. Gremling, assignors to The E. & N. Manufacturing Company, Delphos, Ohio. Wringer mop. 1,717,997; June 18.
- Newton Process Manufacturing Co. (See Kobernik, Julius E., assignor.)
- Newton, Roy C. (See Richardson, W. D., and Newton.)
- Newton, William G., New Haven, Conn., assignor to The Peck Brothers & Company. Regulating valve. 1,706,630; Mar. 26.
- New Traction Company Limited, The. (See Roberts, John, assignor.)
- New York Air Brake Company. (See Campbell, Charles A., assignor.)
- New York Air Brake Company, The. (See Campbell, Charles A., assignor.)
- New York Belting & Packing Company. (See Hughes, William W., assignor.)
- New York Brick Handling Corporation. (See Fuller, Claud E., assignor.)
- New York Brick Handling Corporation. (See Wallace, William W., assignor.)
- New York Clock Corporation. (See Goldfield, Abraham T., assignor.)
- New York Rubber Corporation. (See Anderson, Arvid E., assignor.)
- New York Steam Corporation, The. (See Mumford, Albert R., assignor.)
- Ney, Adolphe H., New York, N. Y. Flotation of ores. 1,723,295; Aug. 6.
- Ney, Eugene J., New York, N. Y. Window ventilator. 1,734,641; Nov. 5.
- Ney, Eugene J., and M. Hartanyi, New York, N. Y.; said Hartanyi, assignor to said Ney. Hydraulic power-transmitting apparatus. 1,700,417; Jan. 29.
- Niacet Chemicals Corporation. (See Schaefer, Joseph J., Jr., assignor.)
- Niagara Blower Company. (See Bulkeley, C. A., and Child, assignors.)
- Niagara Fold, Inc. (See Fleming, John S., assignor.)
- Niagara Machine and Tool Works. (See Hahnemann, Paul R., assignor.)
- Niagara Machine & Tool Works. (See Lindgren, Bror J., assignor.)
- Niagara Machine & Tool Works. (See Munschauer, Frederick E., assignor.)
- Niagara Mixer Company, The. (See Parker, F. H., and Kolpein, assignors.)
- Niagara Sprayer and Chemical Co. (See Helenbolt, George S., assignor.)
- Nias, Frederick S., Brighton, England. Windmill accelerator. 1,718,869; June 25.
- Niblack, Emmett A., U. S. Army, Fort Sill, Okla. Automatic spark-retarding attachment for internal-combustion engines. 1,711,123; Apr. 30.
- Niblack, Hobart Co., Rochester, N. Y., assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Sheet detector. 1,701,861; Feb. 12.
- Niecum, Boyd S., Liberty, Ind. Network. 1,727,214; Sept. 3.
- Nice Ball Bearing Company. (See Beemer, Frank, assignor.)
- Nichol, Arthur M., Cleveland, Ohio. Razor-blade holder. 1,714,396; May 21.
- Nicholas, George F., St. Paul, Minn. Automobile construction. 1,715,379; June 4.
- Nicholas, Grant W. (See Boomershine, Adams, assignor.)
- Nicholas, James S., Akron, Ohio. Game. 1,730,523; Oct. 8.
- Nicholas, Robert G., Lincoln, Nebr. Light shield. 1,739,177; Dec. 10.
- Nicholas, William C., Wilkes-Barre, Pa. Skylight-curtain mounting and adjusting means. 1,728,074; Sept. 10.
- Nicholson, Celtic, Leominster, Mass. Dipping machine. 1,703,687; Feb. 26.
- Nicholay, Paul, assignor to Deceleco, Inc., Detroit, Mich. Supporting detachable electric barriers. 1,704,920; Mar. 12.
- Nicholls, William H., Brooklyn, N. Y. Automatically-operating mold-making machine. 1,707,411; Apr. 2.
- Nichols, Arthur. (See Nichols, Rees, assignor.)
- Nichols, Charles S. (See Jordon, W., and Nichols.)
- Nichols, Clyde L., Louisville, Ky. Automatic steam shut-off. 1,699,908; Jan. 22.
- Nichols Copper Company. (See Connolly, George E., assignor.)
- Nichols, Edgar B. (See Elmendorf, M. W., and Nichols.)
- Nichols, Edgar B., Moorestown, N. J. Drive chain. 1,720,852; July 16.
- Nichols, Edgar B., Rochester, N. Y. Writing instrument. 1,730,679; Oct. 8.
- Nichols, Edgar B., assignor to The Pfandler Co., Rochester, N. Y. Fluid meter. 1,709,247; Apr. 16.
- Nichols, Harold E. (See Gautier, T. R., and Nichols.)
- Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wireless signaling system. 1,706,311; Mar. 19.
- Nichols, Harold W., Maplewood, N. J., assignor to Western Electrical Company, Incorporated, New York, N. Y. Electrical energy radiator. 1,709,090; Apr. 16.
- Nichols, Harvey, and Company Limited. (See Salkind, Sonia, assignor.)
- Nichols, Jesse V., Dallas, Tex. Puzzle. 1,707,813; Apr. 2.
- Nichols, Norton B., San Francisco, Calif. Wheel-aligning device. 1,702,794; Feb. 19.
- Nichols, Ode C., U. S. Army, Fort D. A. Russell, Wyo. Road-charting apparatus. 1,712,736; May 14.
- Nichols, Rees, assignor of one-half to A. Nichols, Philadelphia, Pa. Window-cleaner appliance. 1,712,579; May 14.
- Nichols, Royal B., and G. E. Grant, Derry, N. H. Toy house. 1,716,238; June 4.
- Nichols, Royal B., and G. E. Grant, Derry, N. H. Pot attachment. 1,730,285; Oct. 1.
- Nichols, Samuel F. (See McClung, S. W., Boyd, and Morris, assignors.)
- Nichols, William B., Graham, Tex. Underreamer. 1,740,829; Dec. 24.
- Nichols, William H., Bennington, Vt. Electrical receptacle. 1,716,834; June 11.
- Nichols, William H., Wilkesburg, Pa. Apparatus for casting chill rolls and the like. 1,721,969; July 23.
- Nicholson, Albert D., Toronto, Ontario, Canada. Spray head. 1,723,296; Aug. 6.
- Nicholson, Emil A., Turlock, Calif. Rocking-chair. 1,696,966; Jan. 1.
- Nicholson, Griffith C. (See Ackerman, E. W., and Nicholson.)



- Nicholson, Henry A., La Mesa, Calif. Vehicle spring mechanism. 1,710,236; Apr. 23.
- Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Repairing siphons. 1,704,144; Mar. 5.
- Nicholson, John L., assignor to Locomotive Firebox Company, Chicago, Ill. Repairing siphons. 1,704,145; Mar. 5.
- Nicholson, Lance, et al. (See Burkhardt, Gottlob, assignor.)
- Nicholson, Leonard I., Tisdale, Saskatchewan, Canada. Harrow lift. 1,730,088; Oct. 1.
- Nicholson, Lisle H., Centralia, Wash. Tire-rim tool. 1,717,806; June 18.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 78,779; June 18.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 79,900; Nov. 12.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 79,901; Nov. 12.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 79,902; Nov. 12.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 79,903; Nov. 12.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 79,904; Nov. 12.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 79,905; Nov. 12.
- Nicholson, Robert H., assignor to Hookless Fastener Company, Meadville, Pa. Pull for a slide fastener. Des. 79,906; Nov. 12.
- Nicholson, Robert J., Wheaton, assignor to E. J. Merell, Oak Park, Ill. Insulated electric conductor. 1,718,194; June 18.
- Nicholson, Samuel J. (See Lange, E. C., and Nicholson.)
- Nicholson, Stanley W., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Window regulator. 1,696,921; Jan. 1.
- Nicholson, Stanley W., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Window regulator. 1,699,204; Jan. 15.
- Nicholson, Stanley W., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Window construction. 1,713,088; May 14.
- Nicholson, Stanley W., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Window-control mechanism. 1,714,723; May 28.
- Nicholson, Stanley W., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Window regulator. 1,734,225; Nov. 5.
- Nicholson, Stanley W., assignor to The Loclif Company, Toledo, Ohio. Window and lock actuating device for automobiles. 1,737,118; Nov. 26.
- Nicholson, Stanley W., assignor to The Loclif Company, Toledo, Ohio. Latch-retracting attachment for window-operating devices. 1,737,119; Nov. 26.
- Nicholson, Stanley W., assignor to The Loclif Company, Toledo, Ohio. Window-operating device. 1,737,120; Nov. 26.
- Nicholson, William C., assignor to Beauty Parlor Designator Manufacturing Corporation, San Francisco, Calif. Display device. 1,700,328; Jan. 29.
- Nicholson, William R., Pangbourne, England. Bottle. Des. 79,842; Nov. 5.
- Nichterlein, Paul, assignor to the firm: Carl Zeiss, Jena, Germany. Reversing prism affording parallel vision. 1,719,443; July 2.
- Niön, Vasa, Dresden, Germany. Motor vehicle. 1,698,482; Jan. 8.
- Nickel, Albert P. H.-G., Charlottenburg, and J. J. Spanner, Berlin, Germany. Electrical vacuum discharge device. 1,740,700; Dec. 24.
- Nickell, Arthur C., jr., Waukesha, Wis. Gear shift. 1,698,199; Jan. 8.
- Nickell, Elmo L., et al. (See Abel, Joseph C., assignor.)
- Nickell, Malco A., et al. (See Abel, Joseph C., assignor.)
- Nickels, Ellen, administratrix? (See Nickels, Harry.)
- Nickels, Harry, deceased; E. Nickels, administratrix, Middlesbrough, England. Brush. 1,722,479; July 30.
- Nickelson, Charles N., jr. (See Alderman, E. J., and Nickelson.)
- Nickerson, Alma N., assignor, by mesne assignments, to Highway Service, Incorporated, New Bedford, Mass. Road spreading machine. 1,702,666; Feb. 19.
- Nickerson, Alma N., assignor, by mesne assignments, to Highway Service, Incorporated, New Bedford, Mass. Sanding machine. 1,723,805; Aug. 6.
- Nickerson, Cassius W., Joliet, Ill. Adjustable garment hanger. 1,712,899; May 14.
- Nickerson, Elmer, assignor of one-third to A. Johnson, Outlook, Mont. Wrench. 1,716,382; June 11.
- Nickerson, Franklin P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Screening apparatus. 1,737,383; Nov. 26.
- Nickerson, Henry B., New Rochelle, assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Record-sheet-clamping arrangement. 1,716,899; June 11.
- Nickerson, William H., Brookline, Mass. Shoe-shank stiffener. 1,700,297; Jan. 29.
- Nickerson, William H., Newton, Mass. Punching attachment for presses. 1,735,780; Nov. 12.
- Nickerson, William H., Newton, Mass. Forming shank stiffeners. 1,735,781; Nov. 12.
- Nickerson, Winfield S., Faribault, Minn. Sleigh attachment for motor vehicles. 1,701,212; Feb. 5.
- Nickey Brothers, Inc. (See Ashley, Earl G., assignor.)
- Nickle, Clifford A., Schenectady, N. Y., assignor to General Electric Company. Stroboscope. 1,728,003; Sept. 10.
- Nickle, Clifford A., Schenectady, N. Y., assignor to General Electric Company. Regulation of dynamo-electric machines. 1,736,618; Nov. 19.
- Nickle, Frank H., Saginaw, Mich. Sorting machine. 1,712,838; May 14.
- Nickles, J. M., et al. (See Jones, Labron P., assignor.)
- Nickolas, Irene N. (See Theoharis, T., and Fotakis, assignors.)
- Nicks, John H., and R. S. Crain, San Saba, Tex. Rat and mouse trap. 1,727,666; Sept. 10.
- Nicoletti, Michael, North Attleboro, Mass. Ornamental metal fabric. 1,728,867; Sept. 17.
- Nicoll, Homer K., Oak Park, Ill., assignor of one-half to C. C. Quale. Capsule for hypodermic syringes. 1,704,921; Mar. 12.
- Nicolson, Alexander M., assignor to Wired Radio, Inc., New York, N. Y. Direct-acting sound-reproducing device. 1,717,463; June 18.
- Nicolson, Alexander M., assignor to Wired Radio, Inc., New York, N. Y. Composite piezo-electric torsion device. 1,737,019; Nov. 26.
- Nicolson, Alexander M., assignor to Wired Radio, Inc., New York, N. Y. Noncircular cone loud-speaker. 1,741,533; Dec. 31.
- Nicolson, Alexander M., assignor to Wired Radio, Inc., New York, N. Y. Eccentric cone loud-speaker. 1,742,002; Dec. 31.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 77,852; Feb. 26.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 77,853; Feb. 26.
- Niebel, Godfrey, New York, N. Y. Electric bulb. Des. 77,910; Mar. 5.
- Niebel, Godfrey, New York, N. Y. Electric bulb. Des. 78,041; Mar. 19.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 78,120; Mar. 26.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 78,713; June 11.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,303; Aug. 27.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,304; Aug. 27.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,305; Aug. 27.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,471; Sept. 24.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,472; Sept. 24.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,473; Sept. 24.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,474; Sept. 24.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,475; Sept. 24.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,476; Sept. 24.
- Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 79,477; Sept. 24.
- Niederbayerische Cellulosewerke Aktiengesellschaft. (See Schneider, Adolf, assignor.)
- Niedergaess, Wilhelm J., Seattle, Wash. Rail-joint support. 1,721,314; July 16.
- Niederhauser, Jack G., et al. (See Burgen, Fred F., assignor.)
- Niederhauser, Sallie K., et al. (See Burgen, Fred F., assignor.)
- Niedringhaus, Charles I., and L. W. Mesta, assignors to Mesta Machine Company, Pittsburgh, Pa. Chilled cast-iron roll. 1,702,128; Feb. 12.
- Nielsen, Andreas C. (See Brown, C. A., and Nielsen.)
- Nielsen, Andreas C., East Cleveland, Ohio. Toothbrush. 1,731,500; Oct. 15.
- Nielsen, Bernhard. (See Hahnemann, W., Hecht, and Nielsen.)
- Nielsen, Claudius, Detroit, Mich. Ice casing for refrigerators. 1,730,680; Oct. 8.
- Nielsen, Claudius, Detroit, Mich. Mixing machine. 1,737,609; Dec. 3.
- Nielsen, Claudius, Detroit, Mich. Mixing machine. 1,741,646; Dec. 31.
- Nielsen, Emanuel. (See Robinson, P. H., Nielsen, and Moss.)
- Nielsen, Frantz, Afton, Wyo. Mail receptacle. 1,699,156; Jan. 15.
- Nielsen, Frederik, Epping, near Sydney, New South Wales, Australia. Vulcanizer for rubber soles to uppers. 1,718,174; June 18.
- Nielsen, George P. (See Pedersen, J. C., and Nielsen.)
- Nielsen, Harald, Bromley, and B. Laing, Petty France, assignors to Sensible Heat Distillation Limited, Westminster, England. Apparatus for manufacturing water gas. 1,718,830; June 25.



- Nielsen, Jens L., Ferndale, Mich. Ventilator opener. 1,696,922; Jan. 1.
- Nielsen, Jens P., assignor to Argus Manufacturing Company, Chicago, Ill. Package holder for rolls. Re17,260; Apr. 9.
- Nielsen, John. (See Gardner, Edward B. and R. D., and Nielsen.)
- Nielsen, John F. (See Clement, L. M., and Nielsen.)
- Nielsen, Karl K., assignor to Alcor Manufacturing Company, Chicago, Ill. Candle socket. 1,703,538; Feb. 26.
- Nielsen, Niels, Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Feeding cement slurry to rotary kilns. 1,708,705; Apr. 9.
- Nielsen, Niels K., Wichita, Kans. Garage-door-opening device. 1,732,585; Oct. 22.
- Nielsen, Victor, New York, N. Y. Bearing remover or extractor. 1,710,835; Apr. 30.
- Nielsen, William, Fort Dodge, Iowa. Double windshield. 1,703,355; Feb. 26.
- Nielson, Lester C., et al. (See Dale, Clarence R., assignor.)
- Niemann, Carl, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Method and system for taking X-ray photographs. 1,703,688; Feb. 26.
- Niemann, Georg. (See Schmidt, O., Grosskinsky, and Niemann.)
- Niemczyk, Jan, and W. Wawrzynski, Irvington, N. J. Multiple display apparatus. Des. 73,584; May 21.
- Niemkoff, Gregoire, assignor to Societe Anonyme des Appareils de Manutention et Fours Stein, Paris. Oil-burning furnace. 1,736,415; Nov. 15.
- Nienstadt, August E., Hawthorne, N. J., assignor, by mesne assignments, to A. F. Stoeger, Inc., New York, N. Y. Malt and maltose preparation. 1,709,366; Apr. 16.
- Nies, John D., St. Charles, assignor to Kimble Electric Company, Chicago, Ill. Single-phase-motor system. 1,728,439; Sept. 17.
- Niessen, Hubert W. (See Niessen, John H. and H. W.)
- Niessen, John H. and H. W., Fair Oaks, Calif. Double-acting catch. 1,738,387; Dec. 3.
- Nieuwald, Julius A., Notre Dame, Ind., assignor, by mesne assignments, to Canadian Electro Products Company, Limited, Montreal, Canada. Phenolic condensation products and manufacture thereof. 1,707,941; Apr. 2.
- Nieuwland, Julius A. (See Matheson, H. W., and Nieuwland.)
- Niffenegger, Albert. (See Krogel, Henry C., assignor.)
- Nifot, Adolph, New York, N. Y. Sun protector. 1,710,377; Apr. 23.
- Nightingale, Edward A., Minto, New Brunswick, Canada. Securer for window sashes. 1,718,661; June 25.
- Nightingale, Frank W., Quincy, Mass. Mallet. 1,707,534; Apr. 2.
- Nigrin, Rudolf, Nachod, Czechoslovakia, assignor to Firm Vereenigde Textiel Maatschappijen Mautner N. V., Rotterdam, Netherlands. Drawing frame. 1,721,528; July 23.
- Nigrin, Rudolf, and R. Horsak, Nachod, Czechoslovakia. Draft apparatus for cotton spinning. 1,722,006; July 23.
- Nigro, Gaetano, Thompsonville, Conn. Bumper for automobiles. 1,702,744; Feb. 19.
- Nigro, Michel, assignor to Sleeper & Hartley Inc., Worcester, Mass. Armor or tube forming machine. 1,703,252; Feb. 26.
- Nihlros, Andrew B., Murray, Utah. Boat. 1,725,822; Aug. 27.
- Nikander, August W., Detroit, Mich. Molding. 1,701,794; Feb. 12.
- Nikolais, John R., assignor to The Wallace Barnes Co., Bristol, Conn. Strip-metal-finishing machine. 1,710,941; Apr. 30.
- Nikolish, Mike, Williamson, Iowa. Signal for mines. 1,737,514; Nov. 26.
- Nikolish, Mike, Williamson, assignor to American Mining Tool Company, Ottumwa, Iowa. Drill structure. 1,720,341; July 9.
- Nikolopoulos, George L., Pittsburgh, Pa. Tie fastener. 1,724,769; Aug. 13.
- Nikonow, John P., et al. (See Fisher, Carl G., assignor.)
- Nikonow, John P., New York, N. Y. Fountain pen. 1,717,731; June 18.
- Niles-Bement-Pond Company. (See Cole, Lyndon C., assignor.)
- Niles-Bement-Pond Company. (See Deale, Robert C., assignor.)
- Niles-Bement-Pond Company. (See Pabst, O., and Seibert, assignors.)
- Niles, Eliot W., Bloomfield, N. J., and W. H. Edwards, Flushing, N. Y., assignors to American Telephone and Telegraph Company. Intercommunicating system. 1,702,308; Feb. 19.
- Niles, Eliot W., Bloomfield, N. J., and W. H. Edwards, Bay-side, N. Y., assignors to American Telephone and Telegraph Company. Telephone signaling circuits. 1,733,130; Oct. 29.
- Niles, Eliot W., Bloomfield, N. J., and W. H. Edwards, Bayside, N. Y., assignors to American Telephone and Telegraph Company. Current-equalizing device. 1,741,375; Dec. 31.
- Niles Machine Company. (See Delmanhorst, Herman F., assignor.)
- Niles Steel Products Company, The. (See Fitzgerald, James E., assignor.)
- Niles Steel Products Company, The. (See Thomas, David W., assignor.)
- Niles, Walter L. C., Saugus, assignor to Excel Shoe Form Company, Lynn, Mass. Shoe form. 1,706,312; Mar. 19.
- Nilson, Arthur N. (See Warner, C. E., and Nilson.)
- Nilson, Lars G., Hoboken, N. J. Dynamometer. 1,718,175; June 18.
- Nilson, Leonard D., Wayzata, assignor to Marquette Manufacturing Company, St. Paul, Minn. Press. 1,705,461; Mar. 12.
- Nilsson, Martin, Peekskill, assignor to The Fleischmann Company, New York, N. Y. Food products. 1,701,081; Feb. 5.
- Nilsson, Robert W., assignor to The Mather Spring Company, Toledo, Ohio. Bumper. 1,732,166; Oct. 15.
- Nimrick, Oral, and G. W. Hinton, Danville, Ill., assignors to The Dynamic Fuelizer Company. Water vaporizer for internal-combustion engines. 1,730,089; Oct. 1.
- Nims, Fayette, Montour Falls, N. Y. Hand tool. 1,735,210; Nov. 12.
- Nims, Joe B. (See Pierce, E. F., and Nims.)
- Nippert, Tessie M., Sturgeon Bay, Wis. Egg beater. 1,710,836; Apr. 30.
- Niquette, Joseph H., Los Angeles, Calif., and E. G. Sanders, Galveston, Tex. Combined food and beverage vending station. Des. 78,404; Apr. 30.
- Nisenson, Joseph, assignor to Eagle Metallic Bed Corporation, Brooklyn, N. Y. Bed end or similar article. Des. 78,645; May 28.
- Nissen, Andreas P. (See Nissen, Einar and A. P.)
- Nissen, Einar and A. P., London, England. Advertising device. 1,719,518; July 2.
- Nissen, John P., jr., Philadelphia, Pa. Printing press. 1,699,505; Jan. 15.
- Nishio, Keijiro, Tokyo, Japan. Geological sampler. 1,733,312; Oct. 29.
- Nissy, Walter S., Florin, Pa. Road-marking machine. 1,709,091; Apr. 16.
- Nissy, Walter S., Florin, Pa. Brush for road-marking machines. 1,714,397; May 21.
- Nistri, Umberto, Rome, Italy. Film photographic camera. 1,733,234; Oct. 29.
- Nitardy, Ferdinand W., Brooklyn, assignor to E. R. Squibb and Sons, New York, N. Y. Production of oils. 1,725,964; Aug. 27.
- Nitardy, Otto J., Minneapolis, Minn. Wind motor. 1,741,247; Dec. 31.
- Nitardy, Otto J., Minneapolis, Minn. Wind motor. 1,741,248; Dec. 31.
- Niterday Signal Co. (See Bergen, W. V., and Shute, assignors.)
- Nitralloy Corporation, The. (See Fry, Adolf, assignor.)
- Nitrogen Engineering Corporation. (See Richardson, Ralph S., assignor.)
- Nittel, Frederick W., Attleboro Falls, assignor to M. S. Co., Attleboro, Mass. Mesh bracelet. 1,736,166; Nov. 19.
- Nitz, George F., and T. M. Murphy, Kansas City, Mo., said Nitz assignor to H. L. Thompson. Combination applicator and tank construction. 1,719,616; July 2.
- Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Forming sleeve actuators. 1,720,139; July 9.
- Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Sleeve-valve engine. 1,734,395; Nov. 5.
- Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,739,255; Dec. 10.
- Nivison-Weiskopf Company. (See Edwards, Frank K., assignor.)
- Nix, Randolph R., and W. F. Davis, Shelby, N. C. Thread-cutting device for looms. 1,699,442; Jan. 15.
- Nix, William H., Greensboro, N. C., assignor to Draper Corporation, Hopedale, Mass. Harness stop motion for looms. 1,725,668; Aug. 20.
- Nixon, Andrew M., Lynn, Mass. Valve gear. 1,727,782; Sept. 10.
- Nixon, Clark, et al. (See Behrens, Henry A., assignor.)
- Nixon, Frederick A., Easton, Pa. Train-controlling system. 1,727,407; Sept. 10.
- Nixon, Jedd D., assignor to Texas Iron Works Sales Corporation, Houston, Tex. Rod hanger. 1,705,583; Mar. 19.
- Nixon, Jedd D., assignor to Texas Iron Works Sales Corporation, Houston, Tex. Joint-breaking apparatus. 1,736,009; Nov. 19.
- Nixon, John B., Butler, Pa. Card holder. 1,708,026; Apr. 9.
- Nixon, John S., Harvey, Ill. Clothesrack. 1,724,218; Aug. 13.
- Nixon, Joseph, Wavertree, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic switch. 1,715,143; May 28.
- Nixon, Moses C., Chicago, Ill. Apparatus for baling presses. 1,710,942; Apr. 30.
- Nixon Vending and Change Making Machines, Inc. (See Fonda, D. C., and Hatfield, assignors.)
- Noack, Carl O., Stamford, Conn. Power-controlling mechanism. 1,699,116; Jan. 15.
- Noack, Walter G., Stockton, Calif. Sprinkler. 1,717,887; June 18.



- Noack, Walter G., assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Steam-power plant. 1,709,997; Apr. 23.
- Noah, Leroy H., Ogallah, Kans. Motion-transmitting device. 1,703,497; Feb. 26.
- Noar, Reginald J., Pendleton, England. Manufacture of sponge rubber. 1,717,168; June 11.
- Nobbe, William E., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Producing sheet glass. 1,731,260; Oct. 15.
- Nobis, Harry M., East Cleveland, Ohio. Apparatus for pulverizing coal. 1,728,976; Sept. 24.
- Noble, Bion E. G., Portland, Me. Automatic cheese slicer. 1,708,771; Apr. 9.
- Noble, Charles G., and J. T. King, Eugene, Oreg. Cable car. 1,700,808; Feb. 5.
- Noble, F. H., & Company. (See Shields, John M., assignor.)
- Noble, Leslie D., Detroit, Mich. Foot support. 1,703,895; Mar. 5.
- Noble, Mark, Incline, Calif. Shoe displayer. 1,720,564; July 9.
- Noble, Paul O., Schenectady, N. Y., assignor to General Electric Company. Electric welding apparatus. 1,731,934; Oct. 15.
- Noble, Warren, Detroit, Mich. Engine mount. 1,705,492; Mar. 19.
- Noble, Warren, Detroit, Mich. Steering gear. 1,725,737; Aug. 20.
- Noble, Warren, Detroit, Mich. Steering gear. 1,725,738; Aug. 20.
- Noble, Warren, Detroit, Mich. Crank shaft. 1,731,215; Oct. 8.
- Noble, Warren, et al., trustees. (See Noble, Warren, assignor.)
- Noble, Warren, assignor to W. H. Thornley and W. Noble, Providence, R. I., trustees. Steering-wheel brake. 1,729,841; Oct. 1.
- Noble, William, assignor, by mesne assignments, to Prophy-lactic Brush Company, Northampton, Mass. Drilling machine. 1,723,249; Aug. 6.
- Noble & Wood Machine Co., The. (See Weir, Harry N., assignor.)
- Noble & Wood Machine Co., The. (See Werner, Walter, assignor.)
- Noblitt, Quintin G., L. A. Reeves, and Frank H. Sparks, assignors to Indianapolis Pump & Tube Company, Indianapolis, Ind. Combination heater and muffler construction. 1,732,909; Oct. 22.
- Nobst, Georg, and E. Ulbricht, Mittweida, assignors to W. Leilich, Chemnitz, Germany. Knitting machine. 1,720,606; July 9.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Plate or analogous article. Des. 78,119; Mar. 26.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Computor or analogous article. Des. 78,585; May 21.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Computor or analogous article. Des. 79,096; July 30.
- Nock, John R., and K. Prodis, Brooklyn, N. Y. Automatic starting and stopping device for phonographs. 1,713,141; May 14.
- Nocken, Theodor. (See Bérgrdolt, A., Neelmeier, and Nocken.)
- Nocken, Theodor. (See Neelmeier, W., and Nocken.)
- Noden, Tom J., London, England. Rotary scrubber and washer. 1,704,663; Mar. 5.
- Noe, Roy H., Memphis, Tenn. Exerciser. 1,729,399; Sept. 24.
- Noecker, Joseph F., Bloomfield, Nebr. Scraper device for conveyors. 1,728,131; Sept. 10.
- Noel, Ernest J., Wauregan, Conn. Bunch builder. 1,731,501; Oct. 15.
- Noel, Henry M., Elizabeth, N. J., assignor to Standard Oil Development Company. Automatic regulation of reflux in fractionating towers. 1,735,470; Nov. 12.
- Noell, Albert, Duisburg, Germany. Cooling bed. 1,718,870; June 25.
- Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Socket and caster. 1,710,105; Apr. 23.
- Noerenberg, Mina W., Minneapolis, Minn. Etched article and producing same. 1,719,719; July 2.
- Noeth, John J. (See Hummel, F. E., and Noeth.)
- Noftzger, Charles F. (See Etten, Nicholas L., assignor.)
- Noguchi, Tadashi, Saga, assignor to G. Yamada, Kobe, Japan. Fan motor. 1,704,575; Mar. 5.
- Nohr, Chris, Pasadena, and P. Nohr, Los Angeles, Calif. Machine for rolling soles. 1,697,511; Jan. 1.
- Nohr, Peter. (See Nohr, Chris and P.)
- Noichl, Franz X., and E. Schmidt, Burghausen in Oberbayern, assignors to Dr. Alexander Wacker Gesellschaft für Electrochemische Industrie, Munich, Bavaria, Germany. Apparatus and method of controlling electrodes in electric furnaces. 1,737,890; Dec. 3.
- Noishiki, Yoshitoshi, Tokyo, Japan. Induction-current-generating apparatus for medical treatment. 1,721,031; July 16.
- Nolan, John R., New York, N. Y. Clothespin. 1,697,250; Jan. 1.
- Nolan, Kenneth W. (See Metters, G. J., and Nolan.)
- Noland, Barton H., Brooklyn, N. Y. System of regulated air supply for liquid-fuel furnaces. 1,713,111; May 14.
- Nolde and Horst Company, The. (See Lengel, William L., assignor.)
- Nolde and Horst Company, The. (See Vogt, John H., assignor.)
- No-Leak-O Piston Ring Company, et al. (See Schmitt, Henry, assignor.)
- Nolen, Truly. (See McCullough, E. W., and Nolen.)
- Nolen, Truly, and R. T. Perine, Indianapolis, Ind., assignors to Highway Trailer Company, Edgerton, Wis. Dumping vehicle. 1,740,779; Dec. 24.
- Noll, Henry J., Milwaukee, Wis. Cultivator tooth. 1,733,358; Oct. 29.
- Noll, John G. (See Lichty, Luther D., assignor.)
- Nollau, Edgar H. (See Bradshaw, H., Nollau, and Woodbridge.)
- Nomicos, James A., Chicago, Ill. Bumper-supporting mechanism. 1,697,204; Jan. 1.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Die stock. 1,697,690; Jan. 1.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Centering device for pipe-working tools. 1,720,743; July 16.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe cutter. 1,728,504; Sept. 17.
- Non-Pressure Glazing Company. (See Murnane, Daniel J., assignor.)
- Non-Refillable Container, Inc. (See Hunt, C. L., and Hill, assignors.)
- Noonan, John J., St. Louis, Mo. Bill-producing apparatus for meters. 1,737,863; Dec. 3.
- Noonan, Mary A. (See O'Sullivan, Otho, assignor.)
- Norberg, Bror G., Seattle, Wash. Combination curtain pole, curtain-rod bracket, and suspending means. Des. 80,184; Dec. 24.
- Norberg, Sven, Valhalla, Vasteras, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Selective ground-detecting relay. 1,734,874; Nov. 5.
- Norco Mfg. Co. (See Roginger, John, assignor.)
- Norcross, Carl E., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Glass-cutting table. 1,698,506; Jan. 8.
- Nord, Axel, assignor of one-half to E. Person, Tacoma, Wash. Combination adjustable belt-sanding machine. 1,729,357; Sept. 24.
- Nord, Swan E., Seattle, Wash. Self-draining oil can. 1,718,972; July 2.
- Nordberg, Bruno V. E., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Blast-air regulation for Diesel engines. 1,721,032; July 16.
- Nordberg Manufacturing Company. (See Grieshaber, Emil, assignor.)
- Nordberg Manufacturing Company. (See Nordberg, Bruno V. E., assignor.)
- Nordberg Manufacturing Company. (See Talboys, Henry H., assignor.)
- Nordell, Carl, Gilbertville, Mass. Accelerator. 1,700,643; Jan. 29.
- Nordell, Carl H., Chicago, Ill. Separating comminuted matter from the liquid in which it is immersed. 1,718,871; June 25.
- Nordell, Carl H., assignor to Folding Products Corporation, Chicago, Ill. Foldable curtain. 1,698,996; Jan. 15.
- Nordell, Carl H., Fort Wayne, Ind., assignor to The Permutit Company. Automatic water-softening apparatus. 1,722,938; July 30.
- Nordell, Carl H., Fort Wayne, Ind., assignor to The Permutit Company. Method of and apparatus for the continuous softening of water. 1,740,199; Dec. 17.
- Norden, Carl L., Brooklyn, N. Y. Ship stabilizer. 1,708,679; Apr. 9.
- Nordendale, Harry W., assignor to Nordendale Manufacturing Company, Chicago, Ill. Die-punching method. 1,718,176; June 18.
- Nordendale, Harry W., assignor to Nordendale Manufacturing Company, Chicago, Ill. Die-punching apparatus. 1,736,049; Nov. 19.
- Nordendale Manufacturing Company. (See Nordendale, Harry W., assignor.)
- Nordensson, Tom K. A., Glasgow, Scotland. Compressor driven by internal-combustion engines. 1,741,731; Dec. 31.
- Nordgren, Algot W., assignor to Marquette Manufacturing Company, St. Paul, Minn. Bumper support. 1,699,492; Jan. 15.
- Nordgren, Algot W., assignor to Marquette Manufacturing Company, St. Paul, Minn. Bumper and bumper support. 1,706,806; Mar. 26.
- Nordgren, Algot W., assignor to Marquette Manufacturing Company, St. Paul, Minn. Bumper fitting. 1,715,042; May 28.
- Nordgren, Algot W., assignor to Marquette Manufacturing Company, St. Paul, Minn. Bumper fitting. 1,716,345; June 4.
- Nordgren, Algot W., and G. A. Burandt, assignors to Marquette Manufacturing Company, St. Paul, Minn. Bumper fastening. 1,698,648; Jan. 8.
- Nordgren, Algot W., and G. A. Burandt, assignors to Marquette Manufacturing Company, St. Paul, Minn. Bumper construction. 1,704,146; Mar. 5.
- Nordgren, Arvid. (See Strite, C. P., and Nordgren.)
- Nordin, Erick A., Chicago, Ill. Ironing board. 1,741,581; Dec. 31.
- Nordine, Axel O., Seattle, Wash. Trailer-frame construction. 1,741,873; Dec. 31.



- Nordlander, Birger W., Schenectady, N. Y., assignor to General Electric Company. Mercury-vapor detector. 1,711,742; May 7.
- Nordlum, John C., Middle River, Minn. Scrubber, washer, and drier for floors. 1,710,550; Apr. 23.
- Nordquist, Anton G. E., Denver, Colo. Automatic tire pump. 1,728,977; Sept. 24.
- Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company. New York, N. Y. Safety device for presses. 1,701,822; Feb. 12.
- Nordrum, George H., assignor of one-third to H. G. Nordrum and one-third to J. W. Hamilton, St. Paul, Minn. Attachment for writing instruments. 1,718,831; June 25.
- Nordrum, Henry G., et al. (See Nordrum, George H., assignor.)
- Nordstrom, Carl G. (See Madden, J. P., and Nordstrom.)
- Nordstrom, Carl J., Lake George, N. Y. Insect trap. 1,733,818; Oct. 29.
- Nordstrom, Sven J., Oakland, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. Re17,338; June 25.
- Nordstrom, Sven J., Oakland, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. Re17,375; July 16.
- Norelius, Emil F., Davenport, Iowa. Tracklaying adapter. 1,708,104; Apr. 9.
- Norgaard, Hal W., assignor of one-third to B. B. Palmer, Burbank, Calif. Combined level and angle-measuring instrument. 7,709,227; Apr. 16.
- Norge Corporation. (See Reindel, Ira H., assignor.)
- Norgren, Carl A., Denver, Colo. Air chuck. 1,701,162; Feb. 5.
- Norgren, Carl A., Denver, Colo. Spray gun. 1,736,357; Nov. 19.
- Norin, Carl E. (See Kurowski, A. G. F., and Norin.)
- Norlander, Albert. (See Maino, A. A., and Norlander.)
- Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Chisel retainer for chipping hammers. 1,706,460; Mar. 26.
- Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Portable power-driven tapping tool. 1,737,431; Nov. 26.
- Norlipp Company, The. (See Lippert, Aloysius C., assignor.)
- Norlipp Company, The. (See Moore, Oscar W., assignor.)
- Norma-Hoffmann Bearings Corporation. (See Bott, George R., assignor.)
- Norma-Hoffmann Bearings Corporation. (See Bott, G. R., and Mueller, assignors.)
- Norma-Hoffmann Bearings Corporation. (See Perkins, Edwin A., assignor.)
- Norman, Ernest B., et al. (See Reilly, Clarence J., assignor.)
- Norman, Ernest B. (See Sutter, C., Pettit, and Norman.)
- Norman, George M., assignor to Hercules Powder Company, Wilmington, Del. Refining rosin. 1,715,087; May 28.
- Norman, Hallett O., Couch, Oreg. Flying machine. 1,716,734; June 11.
- Norman, Horace E., assignor to National Equipment Company, Springfield, Mass. Method and apparatus for electrically heating articles. 1,734,913; Nov. 5.
- Norman, Joseph T., Frederick, Md. Drive unit for coal separators. 1,727,215; Sept. 3.
- Norman, Moses J., sr., Newport News, Va. Chock beam. 1,702,169; Feb. 12.
- Norquist, Glenn H. and R. A., Jamestown, N. Y. Window screen. 1,705,132; Mar. 12.
- Norquist, Ralph A. (See Norquist, Glenn H. and R. A.)
- Norquist, Victor C., Kansas City, Mo. Metal-plane-hanging machine. 1,733,385; Oct. 29.
- Norre, Charles. (See Roline, C. G., and Norre.)
- Norrell, Louis, Minneapolis, Minn. Combined ash tray and lighter. Des. 78,935; July 9.
- Norris, Chester C., Lagrange, Ga. Lens strap. 1,706,314; Mar. 19.
- Norris, Clarence G. (See Baum, F. T., and Norris.)
- Norris, Gerald C. (See Stevens, R. H., Norris, and Watson.)
- Norris, Harry. (See Fulenwider, Jesse and H., Robinson, and Norris.)
- Norris, Harry S. (See Fulenwider, James and H., Robinson, and Norris.)
- Norris, Henry M. (See Klausmeyer, D. C., and Norris.)
- Norris, James K. (See Cowles, H., and Norris.)
- Norris, Marvin L., Fort Wayne, Ind., assignor to General Electric Company. Rheostat. 1,728,004; Sept. 10.
- Norris, Ralph E., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Acoustimeter. 1,712,515; May 14.
- Norris, Ralph E., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Electrical measuring device. 1,712,516; May 14.
- Norris, Ralph E., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Acoustical study and correction of auditoriums. 1,726,499; Aug. 27.
- Norris, Ralph E., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Sound-deadening construction. 1,726,500; Aug. 27.
- Norris, Ralph E., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Acoustical study and correction of rooms. 1,726,501; Aug. 27.
- Norris, Robert R. (See Cummings, J. D., and Norris.)
- Norsk Hydro-Elektrisk Kvaestofaktieselskab. (See Halvorsen, Birger F., assignor.)
- Norstrom, Reidar M., Audubon, N. J. Flexible coupling. 1,723,655; Aug. 6.
- North American Chemical Company. (See Avery, Alfred H., assignor.)
- North American Chemical Company. (See Thoma, Andrew, assignor.)
- North American Service Company. (See Braumbaugh, Denford A., assignor.)
- North, Charles E., Montclair, N. J., assignor to Dairy Drink Company, Chicago, Ill. Making mixtures of cocoa or chocolate and milk and product thereof. 1,710,504; Apr. 23.
- North, Charles E., Montclair, N. J., assignor to Dairy Drink Company, Chicago, Ill. Making mixtures of cocoa or chocolate and milk and product thereof. 1,710,505; Apr. 23.
- North, Charles E., Montclair, N. J., assignor to Dairy Drink Company, Chicago, Ill. Making mixtures of cocoa or chocolate and milk and product thereof. 1,710,506; Apr. 23.
- North, Charles E., Montclair, N. J., assignor to Dairy Drink Company, Chicago, Ill. Making mixtures of cocoa or chocolate and milk and product thereof. 1,710,507; Apr. 23.
- North, Charles E., Montclair, N. J., assignor to Dairy Drink Company, Chicago, Ill. Making mixtures of cocoa or chocolate and milk. 1,710,508; Apr. 23.
- North, Charles H., San Francisco, Calif. Brake. 1,699,307; Jan. 15.
- North, Clayton O., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Higher-aldehyde derivative of reaction products of aldehydes and amines and making same. Re17,511; Dec. 3.
- North, Clayton O., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Rubber-vulcanization accelerator. 1,732,770; Oct. 22.
- North, Clayton O., Tallmadge Township, and C. W. Christensen, assignors to The Rubber Service Laboratories Co., Akron, Ohio. Vulcanizing rubber. 1,726,713; Sept. 3.
- North, Clayton O., and W. Scott, assignors to The Rubber Service Laboratories Co., Akron, Ohio. Manufacture of aldehyde-amine reaction products. 1,737,334; Nov. 26.
- North East Electric Company. (See Connolly, William B., assignor.)
- North East Electric Company. (See Dewar, James R., assignor.)
- North East Electric Company. (See Dorsey, Farnum F., assignor.)
- North East Electric Company. (See Fowler, Herbert E., assignor.)
- North East Electric Company. (See Sullivan, Raymond H., assignor.)
- North East Electric Company. (See Terbusch, Floyd, assignor.)
- North East Electric Company. (See Wallis, Cyril T., assignor.)
- North, Edwin W., assignor to National Lock Co., Rockford, Ill. Pulley and making the same. 1,710,710; Apr. 30.
- North, Harold D., Cleveland, Ohio. Light-reflecting screen and making the same. 1,720,232; July 9.
- North & Judd Manufacturing Company. (See Carpmill, John F., assignor.)
- North & Judd Manufacturing Company. (See Freysinger, John B., assignor.)
- North & Judd Manufacturing Company. (See Wardner, Oel E., assignor.)
- North, Norman E., Sales, England, assignor to Westinghouse Electric & Manufacturing Company. Railway control system. 1,699,748; Jan. 22.
- North, Oliver D., assignor to Scammell Lorries Limited, London, England. Multiple-wheel drive for vehicles. 1,707,535; Apr. 2.
- North, Ray A., Green Bay, Wis. Rod-mill inlet and outlet control. 1,726,917; Sept. 3.
- North, Stanley C., Syracuse, N. Y. Wrench. 1,729,795; Oct. 1.
- North, Stanley C., Eastwood, N. Y. Wrench. 1,729,796; Oct. 1.
- Northam-Warren Corporation. (See Halk, Louis, assignor.)
- Northern Conveyor & Mfg. Co. (See Whitnall, George R., assignor.)
- Northern Corrugating Co. (See Miller, Frederick E., assignor.)
- Northern Engraving Company. (See Newman, Augustus L., assignor.)
- Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
- Northern Equipment and Supply Company. (See Ulrich, Carl J., assignor.)
- Northern Malleable Iron Company. (See Cummins, Thomas K., assignor.)
- Northern Trust Company, The, et al., trustees. (See Carlson, Artie C., assignor.)
- Northey, John P., Toronto, Ontario, Canada. Rail joint. 1,737,669; Dec. 3.
- Northey, Rodney V., Toronto, Ontario, Canada. Tool for removing wedge keys from key bolts. 1,733,164; Oct. 29.
- Northey, Rodney V., Toronto, Ontario, Canada. Gib and wedge key for key bolts. 1,737,091; Nov. 26.
- Northfield, Glenn H. (See Northfield, Luke W., W. A., and G. H.)
- Northfield, Luke W., W. A., and G. H., Minneapolis, Minn. Scale construction. 1,735,973; Nov. 19.



- Northfield, Wesley A. (See Northfield, Luke W., W. A., and G. H.)
- Northrop, John K., West Los Angeles, Calif. Sprinkler. 1,705,305; Mar. 12.
- Northrup, Homer M. (See Fekete, S. I., and Northrup.)
- Northrup, Homer M. (See Fekete, S. I., Baits, and Northrup.)
- Northrup, Homer M., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Cylindrical plug and method of making. 1,730,377; Oct. 8.
- Northrup, Joshua K., Ellicottville, N. Y. Rail joint. 1,714,616; May 28.
- Northrup, Joshua K., Ellicottville, N. Y. Shoe last. 1,738,664; Dec. 10.
- North Wayne Tool Company. (See Allen, Percy, assignor.)
- Northwest Blower Kiln Company. (See Mueller, Moritz L., assignor.)
- North Western Art Shade Co. (See Klopstein, Ernest, assignor.)
- Northwestern Expanded Metal Company. (See Baker, G. W., and Dean, assignors.)
- Northwestern Expanded Metal Company. (See Browne, Edith D., assignor.)
- Northwestern Terra Cotta Company, The. (See Hottinger, Adolph F., assignor.)
- Northwestern Yeast Company. (See Hill, C. B., and Givens, assignors.)
- Norton, Alfred A., trustee. (See Lindgren, Waldemar L., assignor.)
- Norton, Allen B., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Multipart core. 1,697,842; Jan. 1.
- Norton, Allen B., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold. 1,703,082; Feb. 19.
- Norton, Arthur G., assignor to Alert Products Inc., Holley, N. Y. Force pump. 1,706,315; Mar. 19.
- Norton, Bertram, Claverly, England. Coal-breaking machine. 1,728,075; Sept. 10.
- Norton, Charles E., assignor to Hanley Company, Bradford, Pa. Brick-die front. 1,715,859; June 4.
- Norton, Charles F., assignor to Howell Electric Motors Company, Howell, Mich. Bearing for shafts. 1,730,896; Oct. 8.
- Norton, Charles H., Plainville, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,722,386; July 30.
- Norton, Charles H., Plainville, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinding machine. 1,722,387; July 30.
- Norton, Charles H., Plainville, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding small cylindrical objects. 1,722,388; July 30.
- Norton, Charles H., Plainville, Conn., assignor to Norton Company, Worcester, Mass. Grinding machine. 1,736,167; Nov. 19.
- Norton, Clifford, South Orange, N. J., assignor to Graham & Norton Company, New York, N. Y. Elevator operating and control apparatus. 1,728,624; Sept. 17.
- Norton, Clifford, South Orange, N. J., and J. G. Gustafson, assignors to Graham & Norton Company, New York, N. Y. Automatic stop for reciprocating devices. 1,731,022; Oct. 8.
- Norton Company. (See Belden, A. G., and Whittles, assignors.)
- Norton Company. (See Belden, A. G., Dunbar, and Flygare, assignors.)
- Norton Company. (See Belden, Albert G., assignor.)
- Norton Company. (See Jeppson, George N., assignor.)
- Norton Company. (See Larsson, T., and Beth, assignors.)
- Norton Company. (See Norton, Charles H., assignor.)
- Norton Company. (See Player, Sydney, assignor.)
- Norton Company. (See Ridgway, R. R., and Glaze, assignors.)
- Norton Company. (See Wood, Wallace H., assignor.)
- Norton, Edith T., now by marriage E. T. Tanksley, assignor of one-half to F. R. Friedrich, New York, N. Y. Dial telephone. 1,723,297; Aug. 6.
- Norton, Edward L., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Electric wave filter. 1,708,950; Apr. 16.
- Norton, Edward L., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier transmission system. 1,719,484; July 2.
- Norton, Edward L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic device. 1,733,554; Oct. 29.
- Norton, (Mrs.) Ella T. (See Brady, James H., assignor.)
- Norton, Harold F., Newport News, Va. Combined tub and shower bath. 1,728,132; Sept. 10.
- Norton, Harold F., Newport News, Va. Wind scoop. 1,737,610; Dec. 3.
- Norton, Homer H., U. S. Navy, and E. E. Hobbs, Philadelphia, Pa. Method of and apparatus for burning liquid fuel. 1,706,316; Mar. 19.
- Norton, Hyatt W. (See Van de Carr, C. V., and Norton.)
- Norton, Hyatt W., Rochester, N. Y. Clamp for extension rims. 1,715,171; May 28.
- Norton, John H., assignor of one-fourth to H. Greenberg, one-fourth to J. Joffe, and one-fourth to I. Ephron, New York, N. Y. Aeroplane safety device. 1,715,303; May 28.
- Norton, Palmer M., Florence, S. C. Railway tool rack. 1,698,318; Jan. 8.
- Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Brake apparatus. 1,720,836; July 16.
- Norton, Robert A., Crafton, assignor to J. M. Selden, Pittsburgh, Pa. Steam generator. 1,707,920; Apr. 2.
- Norton, Robert A., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Plastic composition. 1,720,051; July 9.
- Norton, Robert A., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Production of nonturbid aldehyde condensation products. 1,720,052; July 9.
- Norton, Stanley L., Ypsilanti, Mich. Mechanical movement. 1,738,963; Dec. 10.
- Norton, Stillman F. (See Hill, Joseph M., assignor.)
- Norton, Stuart E., and J. P. Shevlin, Denver, Colo. Atomizer. Des. 78,936; July 9.
- Norton, Stuart E., and J. P. Shevlin, Denver, Colo. Perfume atomizer. Des. 79,380; Sept. 10.
- Norton, Stuart E., and J. P. Shevlin, Denver, Colo. Perfume atomizer. Des. 79,381; Sept. 10.
- Nortwed, Benjamin L., Mitchell, S. Dak. Music-leaf turner. 1,725,669; Aug. 20.
- Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Lock switch. 1,713,142; May 14.
- Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,716,383; June 11.
- Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Switch device. 1,727,034; Sept. 3.
- Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,730,233; Oct. 1.
- Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Lighting switch. 1,734,226; Nov. 5.
- Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Lighting switch. 1,734,227; Nov. 5.
- Norviel, Scott L., Los Angeles, Calif. Inductance coil. 1,699,117; Jan. 15.
- Norwalk Tire and Rubber Company, The. (See Savage, Harry B., assignor.)
- Norwick Wire Works, Inc. (See Beardsley, Lester A., assignor.)
- Norwood, Donald W., Honolulu, Hawaii. Telephone receiver. 1,710,106; Apr. 23.
- Norwood, Harry G., Baltimore, Md. Railway-rail anchor. 1,702,978; Feb. 19.
- Norwood, Harry G., Baltimore, Md. Spring nut-lock washer. 1,708,799; Apr. 9.
- Norwood, Harry G., Baltimore, Md. Wrench. 1,708,847; Apr. 9.
- Norwood, Harry G., Baltimore, Md., assignor of one-half to A. D. T. Libby, East Orange, N. J., and one-half to C. S. Mayer, New York, N. Y. Making buckles. 1,734,443; Nov. 5.
- Norwood, Harry G., Baltimore, Md., assignor of one-half to A. D. T. Libby, East Orange, N. J., and one-half to C. S. Mayer, New York, N. Y. Truss. 1,740,952; Dec. 24.
- Norwood, Harry G., Baltimore, Md., assignor of one-half to A. D. T. Libby, East Orange, N. J., and one-half to C. S. Mayer, New York, N. Y. Truss. 1,740,953; Dec. 24.
- Norwood, Harry Y., West Rush, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 1,741,330; Dec. 31.
- Norwood, Harry G., assignor to Sidney O. Boartfield, Baltimore, Md. Paper box. 1,707,680; Apr. 2.
- Norwood, Harry G., assignor to T. F. Von Dorn, New York, N. Y. Railway-rail anchor. 1,722,107; July 23.
- Norwood, Harry G., assignor to T. F. Von Dorn, New York, N. Y. Railway-rail anchor. 1,722,108; July 23.
- Norwood, Stanley M., Flushing, N. Y., assignor to Electro Metallurgical Company, Process and apparatus for thermally decomposing hydrocarbons. 1,703,949; Mar. 5.
- Noto, Giovanni, Torre del Greco, Italy, assignor to Serpe Brothers, New York, N. Y. Cameo. Des. 79,120; July 30.
- Noto, Giovanni, Torre del Greco, Italy, assignor to Serpe Brothers, New York, N. Y. Cameo. Des. 79,121; July 30.
- Noto, Giovanni, Torre del Greco, Italy, assignor to Serpe Brothers, New York, N. Y. Cameo. Des. 79,122; July 30.
- Nottage, Stanley G., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Operating electric motors. 1,730,861; Oct. 8.
- Notz, Heinrich, assignor to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft, Magdeburg-Buckau, Germany. Filter. 1,705,226; Mar. 12.
- Nouaille Degorce, Léon V. H., Villebois, Ain, France. Railroad-track-securing device. 1,719,536; July 2.
- Nourse, Walter H., assignor to Electric Steel Foundry, Portland, Oreg. Casting gears or the like of manganese steel with soft-iron centers. 1,697,470; Jan. 1.



- Novack, Maurice L., Minneapolis, Minn. Finger ring. Des. 78,937; July 9.
- Novack, William, Brooklyn, N. Y. Douche-nozzle detail. 1,725,670; Aug. 20.
- Novack, William, Brooklyn, N. Y. Sanitary douche nozzle. 1,725,671; Aug. 20.
- Novadel-Agene Corporation. (See Van Loon, Johannes, assignor.)
- Novak, Charles G., Oak Park, Ill., assignor to Miller Industrial Oil Burner Co. Liquid-fuel burner. 1,699,623; Jan. 22.
- Novak Club Inc. (See Gavin, Alphonsus, assignor.)
- Novak Club Inc. (See Novak, Joseph A., assignor.)
- Novak Club Inc. (See Novak, J. A. and Fisher, assignors.)
- Novak, Jacob C., Jr. (See Sutcliffe, A. G., and Novak.)
- Novak, Joseph, Lake Preston, S. Dak. Potato loader and cutter. 1,719,669; July 2.
- Novak, Joseph A., and F. C. Fisher, assignors to Novak Club, Inc., San Francisco, Calif. Adjustable golf club. 1,697,998; Jan. 8.
- Novak, Joseph A., San Francisco, and F. C. Fisher, Alameda, assignors to Novak Club Inc., San Francisco, Calif. Adjustable golf club. 1,702,916; Feb. 19.
- Novak, Joseph A., assignor to Novak Club, Inc., San Francisco, Calif. Golf-club handle. 1,704,544; Mar. 5.
- Novak, Louis F., Jersey City, N. J. Syringe. 1,730,378; Oct. 8.
- Novak, Steve, East St. Louis, Ill. Grass kicker. 1,707,233; Apr. 2.
- Nove Engine Company. (See Morgan, Oren E., assignor.)
- Novelite, Inc. (See Sarafian, Haig, assignor.)
- Novelties Incorporated. (See Ostrander, William H., assignor.)
- Novelty Food Corporation. (See Hall, Charles G., assignor.)
- Nover, Morris, Jersey City, N. J. Hand bag. 1,735,650; Nov. 12.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Company, Incorporated, New York, N. Y. Mechanical movement. 1,732,945; Oct. 22.
- Novick, Abraham, Flushing, assignor to F. L. Smithe Co., Inc., New York, N. Y. Band for envelopes and the like. 1,719,617; July 2.
- Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Fastening device. 1,719,618; July 2.
- Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Web perforating and folding mechanism. 1,721,085; July 16.
- Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Folding mechanism. 1,734,742; Nov. 5.
- Noville, Carl E., Old Bridge, N. J., assignor to The Kin-Ad-Scope Co., Inc., New York, N. Y. Changeable sign. 1,736,664; Nov. 19.
- Novin, Joseph, assignor to The Centre Lighting Fixture Mfg. Co., New York, N. Y. Lighting-fixture wall bracket. Des. 78,220; Apr. 9.
- Novin, Joseph, assignor to The Centre Lighting Fixture Mfg. Co., New York, N. Y. Lighting-fixture brace or article of analogous nature. Des. 78,221; Apr. 9.
- Novinger, Israel E., Novinger, Mo. Switch. 1,707,739; Apr. 2.
- Novoa, Eloy A. (See González, P. M., assignor. and Silva.)
- Novotney, Fredrick, Creston, Wash. Automobile signal. 1,702,017; Feb. 12.
- Novotny, Emil E., Logan, Pa., and D. S. Kendall, Little Falls, N. J., assignors to J. S. Stokes, Huntingdon Valley Post Office, Pa. Synthetic resin composition of the phenol-furfural type. 1,705,493; Mar. 19.
- Novotny, Emil E., Logan, Pa., and D. S. Kendall, Little Falls, N. J., assignors to J. S. Stokes, Huntingdon Valley Post Office, Pa. Synthetic resin composition. 1,705,495; Mar. 19.
- Novotny, Emil E., Logan, Pa., and D. S. Kendall, Little Falls, N. J., assignors to J. S. Stokes, Huntingdon Valley Post Office, Pa. Synthetic resin composition of the phenol-furfural type. 1,705,496; Mar. 19.
- Novotny, Emil E., Logan, and C. J. Romieux, West Philadelphia, assignors to J. S. Stokes, Huntingdon Valley Post Office, Pa. Condensation product of phenols and polyhydric alcohols. 1,705,494; Mar. 19.
- Novotny, Emil E., Logan, Philadelphia, and J. Romieux, West Philadelphia, assignors to J. S. Stokes, Huntingdon Valley P. O., Pa. Resinous condensation product of phenol and cellulose. 1,721,315; July 16.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Spring Valley Farms, Huntingdon Valley P. O., Pa. Phenol-furfural resin and making same. 1,737,121; Nov. 26.
- Novotny, Emil E., Philadelphia, and C. J. Romieux, West Philadelphia, assignors to J. S. Stokes, Huntingdon Valley P. O., Pa. Synthetic resin and making same. 1,738,310; Dec. 3.
- Novotny, John N., Minneapolis, Minn. Stringed musical instrument. 1,721,467; July 16.
- Novotny, John N., Minneapolis, Minn. Stringed musical instruments. 1,721,468; July 16.
- Nowack, Julius R., Sydney, Australia, assignor to United Shoe Machinery Corporation, Paterson, N. J. Pressure-applying device. 1,716,655; June 11.
- Nowak, William, Akron, Ohio. Brake-shoe-operating device. 1,720,188; July 9.
- Nowell, Walter L., Collingswood, N. J. Electromagnetic retarded switch. 1,699,014; Jan. 15.
- Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Radiator cap. 1,708,516; Apr. 9.
- Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Magneto-electric generator. 1,718,973; July 2.
- Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Magneto-electric generator. 1,741,137; Dec. 24.
- Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Combination condenser and resistance unit. 1,741,138; Dec. 24.
- Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Dial for radio receiving sets. 1,741,139; Dec. 24.
- Nowotnick, Johann P., Cologne-on-the-Rhine, Germany. Clothes peg. 1,724,141; Aug. 13.
- Nowotny, Josef, Vienna, Austria. Safety latch. 1,718,974; July 2.
- Noyer, Félix, and P. Pilard, Calais, France. Twist-lace machine. 1,735,651; Nov. 12.
- Noyes, Ira W., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,719,234; July 2.
- Noyes, Ira W., assignor to Draper Corporation, Hopedale, Mass. Warp-stopping mechanism for looms. 1,729,592; Sept. 24.
- Noyes, Maxwell E. (See Varney, T., and Noyes.)
- Nozawa, Ichiro, Tokyo, Japan. Steel or iron pillar particularly adapted for mounting electric wires. 1,707,871; Apr. 2.
- Nuberg, Matthys, assignor to American Seating Company, Grand Rapids, Mich. Furniture construction. 1,721,743; July 23.
- Nuce, Peter Q. (See Mills, Ronald V. A., assignor.)
- Nuera Art-Silk Company Limited, The. (See Sindl, Otto, assignor.)
- Nuermerberger, Christ L., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada. Boxmaking machine. 1,711,648; May 7.
- Nuetzel, John A., East St. Louis, Ill. Braking mechanism for car trucks. 1,707,536; Apr. 2.
- Nufold Furniture Company. (See Simmons, Finn, assignor.)
- Nugent, Peter D., Richmond Hill, N. Y. Turn shoe. 1,714,691; May 28.
- Nugent, William W., Chicago, Ill. Overflow alarm for filters. 1,708,235; Apr. 9.
- Nugent, William W., Chicago, Ill. Oil filter. 1,708,517; Apr. 9.
- Nugent, William W., Chicago, Ill. Sight-flow indicator. 1,719,619; July 2.
- Nulsen, Marvin E., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction sweeper. 1,718,302; June 25.
- Nunes, Roland, Los Angeles, Calif. Newspaper-clipping cutter. 1,717,061; June 11.
- Nuñez, Atanasio. (See Bloch, P., and Nuñez.)
- Nunnery, Norman E., Headland, Ala. Harvesting machine. 1,738,388; Dec. 3.
- Nurse, Godfrey. (See Thomas, Gerald, assignor.)
- Nusly Brothers Company, The. (See Johnston, Henry P., assignor.)
- Nuss, Isaac M., Bloomsburg, Pa. Quick-adjusting auto seat. 1,722,939; July 30.
- Nuss, W. J. Lumber & Supply Company. (See Hankwitz, Otto C. H., assignor.)
- Nusser, Earl F., Shreveport, La. Carrier. 1,740,368; Dec. 17.
- Nusser, Otto, Newark, N. J. Clothespin holder. 1,738,260; Dec. 3.
- Nüsslein, Joseph. (See Günther, F., and Nüsslein.)
- Nutt, Arthur, Kenmore, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Valve-operating mechanism. 1,714,806; May 28.
- Nutt, Arthur, Kenmore, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Valve-operating mechanism. 1,714,807; May 28.
- Nutt, Arthur, Kenmore, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Valve-operating mechanism. 1,722,821; July 30.
- Nutt, Arthur, Kenmore, N. Y., assignor to Curtiss Aeroplane & Motor Corporation. Motor-cooling system. 1,737,122; Nov. 26.
- Nutt, Arthur, Kenmore, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Oiling system. 1,739,690; Dec. 17.
- Nutt, Frank M., assignor to A. C. Spark Plug Company, Flint, Mich. Mounting of speedometer frame in casing. 1,723,434; Aug. 6.
- Nutt, Frank N., assignor to A. C. Spark Plug Company, Flint, Mich. Linkage for fuel pumps. 1,738,790; Dec. 10.
- Nutt, Juliana, Toledo, Ohio. Dress protector. 1,738,555; Oct. 29.
- Nutt, William H., Newburyport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel covering. 1,704,204; Mar. 5.
- Nutt, William H., Newburyport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel covering. 1,718,177; June 18.
- Nuttall, Kenneth, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fan-vibration-eliminating device. 1,715,669; June 4.



- Nuttall, Park A., assignor to Truscon Steel Company, Youngstown, Ohio. Sand-retaining bar for foundry flasks. 1,697,133; Jan. 1.
- Nutter, Edward H., San Francisco, and J. W. Littleford, Alameda, Calif., assignors to Minerals Separation North American Corporation, New York, N. Y. Concentration of sulphur. 1,697,402; Jan. 1.
- Nya Aktiebolaget Galco. (See Strömberg, Anders E. A., assignor.)
- Nyanza Color & Chemical Co. Inc. (See Muller, Oscar F., assignor.)
- Nyberg, Gustav. (See Johnson, C. A., and Nyberg.)
- Nyborg, Tage G., and H. C. Jenkins, Worcester, England. Jigger or shaker conveyor. 1,712,397; May 7.
- Nye, Henry V. (See Martin, C. R., and Nye.)
- Nye, Henry V., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. System of distribution. 1,706,807; Mar. 26.
- Nye, Henry V., West Allis, and R. H. Earle, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Prime-mover-control system. 1,706,808; Mar. 26.
- Nye, Sherman G., assignor of part interest to O. D. Cass and E. E. Newman, Denver, Colo. Treating glass for illumination purposes. 1,736,619; Nov. 19.
- Nye Tool & Machine Works, The. (See Lilleberg, Tideman M., assignor.)
- Nyezick, Valentin, and S. Jankowski, Akron, Ohio. Window shade. 1,726,408; Aug. 27.
- Nygaard, Oscar, Saugus, assignor to Bernitz Furnace Appliance Company, Boston, Mass. Hollow furnace wall and brick therefor. 1,697,403; Jan. 1.
- Nygood, Samuel C., New York, N. Y., assignor of one-half to T. F. Grant, doing business as T. F. Grant Company. Making dairy-product composition. 1,732,375; Oct. 22.
- Nyhagen, Barney R., New York, N. Y. Violin. 1,704,711; Mar. 12.
- Nyman, Alexander, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company. Microphone. 1,702,410; Feb. 19.
- Nyman, Alexander, East Orange, N. J., assignor to Dubilier Condenser Corporation. Variable condenser. 1,724,884; Aug. 13.
- Nyman, Alexander, Dobbs Ferry, assignor to Dubilier Condenser Corporation, New York, N. Y. Variometer. 1,733,974; Oct. 29.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Composite set. 1,702,309; Feb. 19.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Signaling system. 1,704,806; Mar. 12.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Telegraph circuit. 1,714,567; May 28.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Phase-shifting network. 1,717,400; June 18.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Method and apparatus for testing networks. 1,732,311; Oct. 22.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Phase-compensating networks. 1,735,052; Nov. 12.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Testing telegraph transmission. 1,735,933; Nov. 19.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Controlling phase relations between stations. 1,740,620; Dec. 24.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Suppression of echoes and singing in four-wire circuits. 1,740,621; Dec. 24.
- Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Controlling phase relations between stations. 1,740,867; Dec. 24.
- Nyquist, Harry, Millburn, and K. W. Pfeiffer, Arlington, N. J., assignors to American Telephone and Telegraph Company. Electrical delay network. 1,732,312; Oct. 22.
- Nyquist, Harry, Millburn, and K. W. Pfeiffer, Arlington, N. J., assignors to American Telephone and Telegraph Company. Electrical delay network. 1,732,313; Oct. 22.
- Nyquist, Harry, Millburn, and K. W. Pfeiffer, Arlington, N. J., assignors to American Telephone and Telegraph Company. Echo suppressor. 1,739,606; Dec. 17.
- Nyquist, Harry, Millburn, N. J., and P. Mertz, Bellerose Manor, N. Y., assignors to American Telephone and Telegraph Company. Secret telephone system. 1,726,578; Sept. 3.
- Nyrop, Aage, Copenhagen, Denmark. Atomizer. 1,710,784; Apr. 30.
- Nyrop, Aage, Copenhagen, Denmark. Continuously-operating centrifugal sludge separator. 1,735,692; Nov. 12.
- Nystedt, Sigfred A. (See Parks, Robert D., assignor.)
- Nystrom, Karl F., Chicago, Ill. Railway journal bearing. 1,701,010; Feb. 5.
- Nystrom, Karl F., assignor to Camel Company, Chicago, Ill. House-car end door. 1,735,617; Nov. 12.
- Nystrom, Martin, assignor to The Brunswick-Balke-Coller Co., Chicago, Ill. Loud-speaker cabinet. Des. 78,891; July 2.
- Nystrom, Martin, assignor to The Brunswick-Balke-Coller Company, Chicago, Ill. Combined phonograph and radio receiving set cabinet or similar article. Des. 80,086; Dec. 10.
- Nystrom, Martin, assignor to The Brunswick-Balke-Coller Company, Chicago, Ill. Combined phonograph and radio receiving set cabinet or similar article. Des. 80,087; Dec. 10.
- Nystrom, Martin, assignor to The Brunswick-Balke-Coller Company, Chicago, Ill. Sound-box mounting. 1,708,320; Apr. 9.
- O & J Machine Company, The. (See Johnson, J. E., and Oslund, assignors.)
- O & J Machine Company, The. (See Oslund, C. H., and Johnson, assignors.)
- O. K. Garage, Inc., The. (See Nelson, John C., assignor.)
- O. K. Playing Card Company. (See Kubatzky, Otto, assignor.)
- O. K. Tool Company, The. (See Severson, Ole, assignor.)
- O. & S. Bearing Co. (See Skillman, Newton, assignor.)
- Oakes & Burger Co. (See Wolf, Frank F., assignor.)
- Oakes, Ernest C., Dunkirk, assignor, by mesne assignments, to Empire Milking Machine Company, Inc., Rochester, N. Y. Milking-machine pulsator. 1,736,010; Nov. 19.
- Oakes, Frank J., and W. F. Brandt, Indianapolis, Ind.; said Brandt assignor to said Oakes. Journal mechanism. 1,704,205; Mar. 5.
- Oakes, George W., Britt, Iowa. Brooder. 1,705,873; Mar. 19.
- Oakes, George W., Crystal City, Mo. Quick-detachable appliance. 1,706,317; Mar. 19.
- Oakes, Lucian R., assignor to The Oakes Manufacturing Company, Tipton, Ind. Poultry watering trough. 1,716,239; June 4.
- Oakes Manufacturing Company, The. (See Lord, Fred W., assignor.)
- Oakes Manufacturing Company, The. (See Oakes, Lucian R., assignor.)
- Oakland California Towel Company. (See Presher, Raymond, assignor.)
- Oakley, Anne L., Carsonville, Mo. Heating appliance. 1,736,859; Nov. 26.
- Oakley, Clifford H., Trenton, N. J. Mat. Des. 79,159; Aug. 6.
- Oakley, Clifford H., assignor to Essex Rubber Company, Trenton, N. J. Shoe sole. Des. 79,301; Aug. 27.
- Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Making tire-valve stems. 1,702,310; Feb. 19.
- Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Making nuts or the like. 1,714,316; May 21.
- Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Tire valve. 1,718,662; June 25.
- Oakley, George E., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Automatic door-engine control. 1,698,167; Jan. 8.
- Oakley, Hubert, and J. F. Newbery, Davis, Okla. Twine holder. 1,741,874; Dec. 31.
- Oakley, Laurence M., assignor to Essex Rubber Company, Trenton, N. J. Shoe sole. Des. 78,646; May 28.
- Oaks, Albert, Cleveland, Ohio. Aeroplane-wing construction. 1,729,680; Oct. 1.
- Oathout, Charles E., assignor to The Kaynee Company, Cleveland, Ohio. Reinforced garment seam. 1,706,461; Mar. 26.
- O'Bannon, Walter A., assignor to Walter A. O'Bannon Company, Tulsa, Okla. Safety hook. Re17,390; July 30.
- O'Bannon, Walter A., assignor to Walter O'Bannon Co., Tulsa, Okla. Valve case and producing the same. Re17,481; Nov. 5.
- O'Bannon, Walter A., assignor to Walter O'Bannon Co., Tulsa, Okla. Valve case and producing same. 1,714,398; May 21.
- O'Bannon, Walter, Co. (See O'Bannon, Walter A., assignor.)
- Obbard, Norman B., Pittsburgh, Pa. Truss. 1,741,331; Dec. 31.
- Obee, Harvey. (See Webster, Frank P., assignor.)
- Ober, Gale R., assignor to The Ober Mfg. Company, Chagrin Falls, Ohio. Level. 1,738,791; Dec. 10.
- Ober, George A., et al. (See Bedel, Anselm L., assignor.)
- Ober, Leonard, assignor of one-half to A. U. Walter, Baltimore, Md. Nut and bolt assembling machine. 1,726,307; Aug. 27.
- Ober Mfg. Company, The. (See Ober, Gale R., assignor.)
- Ober, Raymond E., Crosby, Minn. Peat-fuel machine. 1,738,665; Dec. 10.
- Oberg, Anton J., and R. R. Stoeften, Los Angeles, Calif. Plate support for color-projection machines. 1,723,200; Aug. 6.
- Oberg, Anton J., and R. R. Stoeften, Los Angeles, Calif. Special cut lens. 1,739,607; Dec. 17.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Adapter for telephone-substation ringers. 1,699,749; Jan. 22.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Impulse sending device. 1,708,951; Apr. 16.
- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Calling device. 1,719,992; July 9.



- Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Substation equipment. 1,719,993; July 9.
- Obergfell, Herbert F., River Forest, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Automatic switch. 1,720,342; July 9.
- Obergfell, Herbert F., River Forest, assignor to Automatic Electric Inc., Chicago, Ill. Telephone desk set. 1,738,919; Dec. 10.
- Oberholtzer, John H., assignor of one-half to R. C. Murphy, Harrisburg, Pa. Incrustation preventive. 1,720,565; July 9.
- Oberhuber, William F., Drexel Hill, Pa. Spring slug for condenser tubes. 1,700,851; Feb. 5.
- Oberländer, Hermann, Zeulenroda, Germany. Knitting machine. 1,737,197; Nov. 26.
- Oberle, Alfred, assignor of one-half to T. E. Scofield, Kansas City, Mo. Preserving wood. 1,717,888; June 18.
- Oberly & Newell, 545 Pearl St. Corp. (See Stam, Cyrus P., assignor.)
- Oberschulte, Hermann, Essen-on-the-Ruhr, Germany, Dolphin pile. 1,722,672; July 30.
- Oberst, Frank, New York, N. Y., assignor to Sonora Phonograph Company, Inc. Radio apparatus. 1,718,374; June 25.
- Oberwegner, Alfred R., Toledo, Ohio. Washing machine. 1,714,276; May 21.
- Oberwegner, Alfred R., Toledo, Ohio. Laundry stick. 1,732,314; Oct. 22.
- Obici, Amedeo, Drivers, Va. Peanut-branding machine. 1,735,471; Nov. 12.
- Oboukhoff, Nikolai, Harbin, China. Dynamo-electric machine. 1,740,031; Dec. 17.
- O'Brien, Bartholomew J., and G. E. Funk, Kansas City, Mo. Manufacturing curved electrotype plates. 1,720,430; July 9.
- O'Brien, Andrew A., Los Angeles, Calif. Toy glider. Des. 79,978; Nov. 26.
- O'Brien, David J., Manhattan Beach, N. Y. Heat-insulating shipping container. 1,700,615; Jan. 29.
- O'Brien, David J., Manhattan Beach, assignor to Thermopak Company, Inc., New York, N. Y. Food-preserving container. 1,713,348; May 14.
- O'Brien, David J., Sheepshead Bay, assignor to Thermopak Company, Inc., New York, N. Y. Insulating apparatus. 1,730,090; Oct. 1.
- O'Brien, Denis J., Middletown, Conn. Concrete structure. 1,698,557; Jan. 8.
- O'Brien, Ed. (See Hager, E. M., and O'Brien.)
- O'Brien, Edward J., assignor, by mesne assignments, to O. T. Hodnefield, Montrose, Calif. Wall board. 1,699,118; Jan. 15.
- O'Brien, Edwin K. (See Shepherd, J. E., and O'Brien.)
- O'Brien, Eugene, Eau Claire, Wis. Attachment for paper machines. 1,702,129; Feb. 12.
- O'Brien, Frederick J., assignor to Struthers Wells-Titusville Corporation, Titusville, Pa. Flexible pipe slip. 1,730,622; Oct. 8.
- O'Brien, Herbert J., San Francisco, Calif. Fruit basket. 1,699,855; Jan. 22.
- O'Brien, Ida E., Denver, Colo. Hose supporter. 1,732,946; Oct. 22.
- O'Brien, James E., Brooklyn, and T. F. O'Brien, Richmond Hill, N. Y. Advertising device. 1,735,934; Nov. 19.
- O'Brien, James E., Brooklyn, and T. F. O'Brien, Richmond Hill, N. Y. Advertising device. 1,736,860; Nov. 26.
- O'Brien, James F. (See Jones, Llewellyn J. W., assignor.)
- O'Brien, James J., Chicago, Ill. Display stand. 1,720,053; July 9.
- O'Brien, James J., Chicago, Ill. Display fixture. 1,736,833; Nov. 26.
- O'Brien, John J., West Haven, assignor, by mesne assignments, of one-half to C. C. Robinson, New Haven, Conn. Multihydraulic power device. 1,730,862; Oct. 8.
- O'Brien, John O. (See Thornton, John E., assignor.)
- O'Brien, Joseph F. (See Madsen, Soren, assignor.)
- O'Brien, Thomas, assignor to Swift & Company, Chicago, Ill. Flank spreader. 1,721,131; July 16.
- O'Brien, Thomas F. (See O'Brien, James E. and T. F.)
- O'Brien, Timothy J. (See Skelton, H. R., and O'Brien.)
- O'Brien, Vincent J., Denver, Colo. Self-aligning bearing. 1,720,431; July 9.
- O'Brien, Wilfred G., assignor of two-thirds to A. Berlandi and S. Zubracka, Boston, Mass. Liquid-dispensing apparatus. 1,706,631; Mar. 26.
- O'Brien, William J., Baltimore, Md. Producing lithopone. 1,709,999; Apr. 23.
- O'Brien, William L., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Machine for forming armature conductors. 1,721,636; July 23.
- Obrig, Jacob A. T., Summit, and E. P. Hutten, Rutherford, N. J. 1,733,235; Oct. 29.
- Obstfeld, Lou, Brooklyn, assignor to Markwell Manufacturing Co. Inc., New York, N. Y. Advertising card or the like. Des. 77,854; Feb. 26.
- Obuchowski, Paul, Stamford, Conn. Fire-rescue apparatus. 1,732,947; Oct. 22.
- O-Cedar Corp'n. (See Brown, Peter, assignor.)
- O-Cedar Corporation. (See Channell, Charles A., assignor.)
- O-Cedar Corp'n. (See Welling, Matthew J., assignor.)
- Oches, Maximilian J., Cleveland, Ohio. Dough mixer. 1,700,510; Jan. 29.
- Ochiltree Electric Company. (See Riddle, Louis M., assignor.)
- Ochiltree, Ned A., assignor to Concrete Engineering Company, Omaha, Neb. Roofing joint. 1,710,890; Apr. 30.
- Ochsenreiter, John F., Washington, D. C. Apparatus for keeping tobacco moist. 1,724,958; Aug. 20.
- Ochwat, Paul. (See Zahn, K., and Ochwat.)
- Ocker, William C., U. S. Army, Crissy Field, San Francisco, Calif. Testing and training device for aviators. 1,715,304; May 28.
- Ocko, Harry M., Monsey, N. Y. Electrician's tool. 1,699,805; Jan. 22.
- Ocko, Harry M., Monsey, N. Y. Station indicator. 1,729,451; Sept. 24.
- O'Connell, James R., assignor of one-half to J. O. Bennett, Rochester, N. Y. Feed chuck. 1,701,213; Feb. 5.
- O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Drop-brake-shaft holding means. 1,701,540; Feb. 12.
- O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Handwheel for brakes. 1,720,142; July 9.
- O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Brake-gear mounting. 1,720,233; July 9.
- O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Brake-gear mounting. 1,720,234; July 9.
- O'Connor, Arthur F., assignor to Union Railway Equipment Company, Chicago, Ill. Car-door-operating mechanism. 1,731,316; Oct. 15.
- O'Connor, David, assignor to American Roll Screen Company, Inc., Rochester, N. Y. Ventilator. 1,698,062; Jan. 8.
- O'Connor, John A., Canton, Ohio. Fuel economizer. 1,712,933; May 14.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 1,698,728; Jan. 15.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber. 1,698,729; Jan. 15.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 1,698,730; Jan. 15.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,700,236; Jan. 29.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Railway-car-vestibule diaphragm. 1,706,462; Mar. 26.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,706,463; Mar. 26.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,706,464; Mar. 26.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Hand brake. 1,707,362; Apr. 2.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber for automobiles. 1,707,490; Apr. 2.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism for vehicles. 1,707,765; Apr. 2.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,710,183; Apr. 23.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Locomotive driving box. 1,710,184; Apr. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Antifriction bearing. 1,710,185; Apr. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism for automobiles. 1,710,186; Apr. 23.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism for automobiles. 1,713,914; May 21.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism for automobiles. 1,713,915; May 21.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Friction shock-absorbing mechanism. 1,716,656; June 11.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill. Brake. 1,716,657; June 11.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Railway-car truck. 1,716,658; June 11.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Railway-car truck. 1,716,659; June 11.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Brake. 1,716,864; June 11.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,716,865; June 11.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator-car-door operating and locking means. 1,720,143; July 9.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Locking center pin for railway cars. 1,725,413; Aug. 20.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Brake. 1,729,626; Oct. 1.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber for vehicles. 1,729,627; Oct. 1.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Journal-box mounting. 1,730,234; Oct. 1.



- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,730,235; Oct. 1.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,730,823; Oct. 8.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,730,824; Oct. 8.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,730,863; Oct. 8.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,730,864; Oct. 8.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,737,611; Dec. 3.
- O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Brake. 1,737,612; Dec. 3.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Inc. Shock absorber for vehicles. 1,737,613; Dec. 3.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Antifriction bearing. 1,738,722; Dec. 10.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,738,723; Dec. 10.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Brake mechanism. 1,741,647; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,741,648; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,741,649; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,741,650; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism. 1,741,651; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing device for vehicles. 1,742,003; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,742,004; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 1,742,005; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Locking center-pin construction for railway cars. 1,742,006; Dec. 31.
- O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Center-pin-locking arrangement for railway cars. 1,742,007; Dec. 31.
- O'Connor, John J., Chicago, Ill. Gas-producing apparatus. 1,733,621; Oct. 29.
- O'Connor, John J., Rock Island, Ill. Making mixed water gas and coal gas. 1,733,622; Oct. 29.
- O'Connor, John J., Janesville, Wis. Gas-producing process. 1,733,623; Oct. 29.
- O'Connor, Leo J., assignor of one-fourth to W. Isler, Canton, Ohio. Ventilating device. 1,728,768; Sept. 17.
- O'Connor, Louis R., Seattle, Wash. Toilet-seat cover. 1,713,674; May 21.
- O'Connor, Vincent P., Oakland, Calif. Hose connection. 1,737,941; Dec. 3.
- O'Connor, Walter J., Pittsburg, Pa. Antifreeze and fire-protecting device. 1,720,140; July 9.
- O'Connor, William H., Newark, N. J. Pork-skinning machine. 1,714,886; May 28.
- Odean, Henry T., Spokane, Wash. Humidifier. 1,729,119; Sept. 24.
- Odeen, Henry, Palo Alto, Calif. Purification of oils. 1,705,824; Mar. 19.
- Odeen, Henry, Palo Alto, Calif. Purification of oils. 1,705,825; Mar. 19.
- Odell, A. G. (See Lowder, Vander B., assignor.)
- Odell, Earl H., Chicago, Ill. Violet-ray vacuum cup. 1,718,576; June 25.
- Odell, Earl H., Chicago, Ill. Exercise apparatus. 1,721,709; July 23.
- Odell, John B., Riverside, Calif. Steam-generator heating unit. 1,710,943; Apr. 30.
- Odell, William W., et al. (See McKee, R. H., and Burke, assignors.)
- Oden, Eugene R., Lankershim, Calif. Waterproofing surfaces. 1,721,861; July 23.
- Oden, Eugene R., Lankershim, Calif. Safeguarding concrete structures against leaking fractures. 1,740,110; Dec. 17.
- Odend'hal, Charles J., Washington, D. C. Constant-pressure valve. 1,716,832; June 11.
- Odend'hal, Charles J., Brookline, Mass. Pressure-control valve. 1,734,823; Nov. 5.
- Odend'hal-Monks Corporation. (See Swope, L. M., and Zulauf, assignors.)
- Odes, Harry, et al. (See Lalonde, Oscar, assignor.)
- Odin, Eugene A., Chicago, Ill. Clamping device. 1,726,039; Aug. 27.
- Odin, Eugene A., Chicago, Ill. Clamping device. 1,738,822; Dec. 10.
- Odlin, Susan I., and F. C. Stanton, Dayton, Ohio. Furniture. 1,733,386; Oct. 29.
- Odium, William H., assignor to Duro Metal Products Company, Chicago, Ill. Electrical vaporizing device. Des. 73,695; June 4.
- Odium, William H., assignor to Duro Metal Products Company, Chicago, Ill. Vaporizing device. 1,727,899; Sept. 10.
- Odom, Daniel E., Bennettsville, S. C. Overwinding preventer for spring motors. 1,720,289; July 9.
- O'Donnell, Charles, Boston, Mass. Convertible umbrella and handbag. 1,699,015; Jan. 15.
- O'Donnell, Frank L., Chicago, Ill., assignor to Kirsch Company, Sturgis, Mich. End ornament for a drapery-suspension fixture. Des. 78,892; July 2.
- O'Donnell, Frank L., Chicago, Ill., assignor to Kirsch Company, Sturgis, Mich. End ornament for a drapery-suspension fixture. Des. 78,893; July 2.
- O'Donnell, Frank L., Chicago, Ill., assignor to Kirsch Company, Sturgis, Mich. End ornament for a drapery-suspension fixture. Des. 78,894; July 2.
- O'Donnell, Frank L., Chicago, Ill., assignor to Kirsch Company, Sturgis, Mich. End ornament for a drapery-suspension fixture. Des. 78,895; July 2.
- O'Donnell, John A., Dennison, Ohio. Building tile. 1,700,542; Jan. 29.
- O'Donnell, John B., Kansas City, Mo. Combination basketball and baseball game board. 1,712,159; May 7.
- O'Donnell, Patrick S., London, England. Sound-amplifying device for sound reproducing and recording instruments. 1,722,007; July 25.
- O'Donnell, Patrick S., London, England. Sound-reproducing apparatus. 1,722,008; July 25.
- O'Donnell, Patrick S., London, England. Sound-producing apparatus. 1,730,286; Oct. 1.
- O'Donnell, Philip L., and G. E. Hieber, Cincinnati, Ohio, said Hieber, assignor to said O'Donnell. Taping mechanism and reinforcing material for shoes. 1,724,038; Aug. 13.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Burner unit for gas heating apparatus. 1,699,624; Jan. 22.
- O'Dowd, Henry W., Jersey City, N. J., assignor, by mesne assignments, to Standard Gas Equipment Corporation, Baltimore, Md. Thermostatic fluid-controlling device. 1,704,512; Mar. 5.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas broiler. 1,707,276; Apr. 2.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Burner unit for gas heating apparatus. 1,735,618; Nov. 12.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Oven-door construction. 1,735,652; Nov. 12.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Oven-door construction. 1,735,653; Nov. 12.
- O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas stove or range. 1,735,654; Nov. 12.
- Odquist, Victor. (See Hotherhall, J. M., and Odquist.)
- Oechsle, Joseph S., assignor to Metalweld Service Corporation, Philadelphia, Pa. Attachment frame for mobile units. Re17,209; Feb. 5.
- Oechsle, Joseph S., assignor to Metalweld, Incorporated, Philadelphia, Pa. Portable rail-car unit. 1,727,114; Sept. 3.
- Oehmichen, Etienne, Valentigney, France. Photographic apparatus adapted for view-taking enlargements and screen projection. 1,738,445; Dec. 3.
- Olke, George G., Blue Earth, Minn. Electrical remote control for ordnance. 1,739,608; Dec. 17.
- Oertling, Frederick N. (See Habrie, Jules, assignor.)
- Oertz, Max, Hamburg, Germany. Two-part rudder for ships. 1,705,133; Mar. 12.
- Oertz, Max, Hamburg, Germany. Two-part rudder for ships. 1,714,042; May 21.
- Oesterla, Adam C., Eddystone, Pa. Wall structure and building block therefor. 1,719,620; July 2.
- Oestrick, Charles H., Ferndale, Mich. Skate. 1,726,579; Sept. 3.
- Oetjen, Howard H., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Electric switch. 1,737,767; Dec. 3.
- Oettinger, Mark A., Brookline, Mass. Tension device for musical instruments. 1,713,002; May 14.
- Oettinger, Mark A., Watertown, Mass., assignor to Bacon Banjo Co., Inc., Groton, Conn. Banjo and the like. 1,713,855; May 21.
- Oettinger, Richard, Munich, Germany. Casting apparatus. 1,727,518; Sept. 10.
- Oettle, Harry B., assignor to R. H. Beaumont Co., Philadelphia, Pa. Automatic tram-car loading gate. 1,740,743; Dec. 24.
- O'Farrell, Matthew, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Fluid-pressure hammer. 1,709,093; Apr. 16.
- O'Farrell, Matthew, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Drill and manual support therefor. 1,711,688; May 7.
- Offenhauer, Christopher, Philadelphia, Pa. Automobile bumper. 1,709,483; Apr. 16.
- Offenhauer, Christopher, Philadelphia, Pa. Method of and apparatus for treating material. 1,734,824; Nov. 5.
- Offerle, Sherm J., Warren, Pa. Loud-speaker. 1,715,305; May 28.
- Office Equipment Patents Corporation. (See Wigginton, George P., assignor.)



- Officer, Charles B., Chicago, Ill., assignor to Sullivan Machinery Company. Mining machine. 1,741,134; Dec. 24.
- Officer, Thomas, Claremont, N. H., assignor to Sullivan Machinery Company. Pressure-fluid motor. 1,703,203; Feb. 26.
- Officer, Wyman L., Warren, Minn. Sliding and swinging grain and car door construction. 1,709,278; Apr. 16.
- Ofutt, Lawrence H., Raspeburg, assignor to D. R. S. Co. Inc., Baltimore, Md. Cigarette fire choker and ash tray. 1,733,028; Oct. 22.
- Ofstad, Nicholas J., Redlands, assignor to W. L. Connor, Los Angeles, Calif. Fruit-washing machine. 1,740,868; Dec. 24.
- Ofstad, Nicholas J., Redlands, assignor to W. L. Connor, Los Angeles, Calif. Fruit-washing machine. 1,740,869; Dec. 24.
- Ofstad, Nicholas J., Redlands, assignor to W. L. Connor, Los Angeles, Calif. Fruit-washing machine. 1,740,870; Dec. 24.
- Ogawa, Yukimasa, Fukuchi-Mura, Japan. Automatic crossing-bar apparatus for single-track railways. 1,707,812; Apr. 2.
- Ogden, Albert U., assignor to Steel Drum Accessories Corporation, Buffalo, N. Y. Valve. 1,723,066; Aug. 6.
- Ogden, Arnold L., assignor to Alfred Dunhill of London, Inc., New York, N. Y. Cigar and cigarette lighter. 1,733,748; Oct. 29.
- Ogden, Clarence E., Cincinnati, Ohio. Clock case. Des. 79,743; Oct. 29.
- Ogden, Clarence E., Cincinnati, Ohio. Clock case. Des. 79,744; Oct. 29.
- Ogden, Clarence E., Cincinnati, Ohio. Clock case. Des. 79,745; Oct. 29.
- Ogden, Clarence E., Cincinnati, Ohio. Clock case. Des. 79,746; Oct. 29.
- Ogden, Clarence E., Cincinnati, Ohio. Clock case. Des. 79,747; Oct. 29.
- Ogden, Clarence E., Cincinnati, Ohio. Clock case. Des. 79,748; Oct. 29.
- Ogden, Clarence E., Cincinnati, Ohio. Rectifier for alternating currents. 1,731,981; Oct. 15.
- Ogden, Clarence E., Cincinnati, Ohio, assignor to The Kodak Radio Corporation. Constructing metallic rectifier plates. 1,698,921; Jan. 15.
- Ogden, Clarence E., Cincinnati, Ohio, assignor to The Kodak Radio Corporation. Rectifying unit and producing the same. 1,707,234; Apr. 2.
- Ogden, Clarence E., Cincinnati, Ohio, assignor to The Kodak Radio Corporation. Metallic rectifier construction. 1,718,663; June 25.
- Ogden, Clarence E., Cincinnati, Ohio, assignor to The Kodak Radio Corporation. Rectifier for alternating current. 1,738,113; Dec. 3.
- Ogden, Dana P., et al. (See Bergman, William G., assignor.)
- Ogden, Daniel L., and R. E. Valentine, Woodbridge, assignors to United States Metals Refining Company, Carteret, N. J. Recovering selenium. 1,730,681; Oct. 8.
- Ogden, J. Edward, Company. (See Ogden, Ralph E., assignor.)
- Ogden, J. Edward. (See Tomkinson, Charles C., assignor.)
- Ogden, J. Edward. (See Van Cleve, Horatio P., assignor.)
- Ogden, Jacob W. (See Pitney, A. H., and Ogden.)
- Ogden, Jacob W., C. C. Lund, and W. H. Wheeler, Jr., assignors to Pitney-Bowes Postage Meter Company, Stamford, Conn. Mailing machine. 1,737,670; Dec. 3.
- Ogden, John E. (See Tomkinson, Charles C., assignor.)
- Ogden, Ralph E., Lawrence, assignor, by mesne assignments, to J. Edward Ogden Company, New York, N. Y. Expansion shield. 1,730,588; Oct. 8.
- Ogden, Walter H., Cleveland, Ohio, assignor to R. Hoe & Co., Inc., New York, N. Y. Web-roll-control mechanism. 1,736,834; Nov. 26.
- Ogilvie, Alexander L. (See Jacobson, A., and Ogilvie.)
- Ogilvie, James, Buffalo, assignor, to National Aniline and Chemical Co., Inc., New York, N. Y. Green dye of the anthraquinone series. 1,698,821; Jan. 15.
- Ogle Construction Co. (See Bledsoe, Carl F., assignor.)
- Oglesby, Nicholas E. (See Bradner, D. B., and Oglesby.)
- Oglesby, Richard A., South Bend, Ind. Oscillating magnet. 1,711,323; Apr. 30.
- Oglesby, Richard A., Mishawaka, Ind., assignor, by mesne assignments, to Quick Action Ignition Company. Internal-combustion-engine governor. 1,731,392; Oct. 15.
- O'Gorman, Gaynor, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Packing of rubber heels. 1,729,797; Oct. 1.
- Oggsbury, James S., Toronto, Ontario, Canada, assignor to Dayton Scale Company, Dayton, Ohio. Computing scale. 1,719,077; July 2.
- O'Hara, Herbert H. (See Barnes, Alvin P., assignor.)
- O'Hara, Skidmore, assignor to O'Hara Waltham Company, Waltham, Mass. Printing machine. 1,697,926; Jan. 8.
- O'Hara Waltham Company. (See O'Hara, Skidmore, assignor.)
- O'Hare, John S., assignor of one-half to R. M. Aitken, Denver, Colo. Scribed support. 1,710,891; Apr. 30.
- O'Hara, Berry M. (See Slagle, E. A., and O'Hara.)
- Ohaus, Gustav, Maplewood, N. J. Trip scale. 1,732,612; Oct. 22.
- Ohio Boxboard Company, The. (See Gannon, J. J., and Foerstner, assignors.)
- Ohio Boxboard Company, The. (See Wells, Fred B., assignor.)
- Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
- Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
- Ohio Brass Company, The. (See Kelley, Patrick J., assignor.)
- Ohio Brass Company, The. (See Kiley, Edward J., assignor.)
- Ohio Brass Company, The. (See Larsson, Ernst A., assignor.)
- Ohio Brass Company, The. (See Marshall, Leslie H., assignor.)
- Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
- Ohio Brass Company, The. (See Pipes, Pliny P., assignor.)
- Ohio Chemical & Manufacturing Company, The. (See Dawson, Howard H., assignor.)
- Ohio Cultivator Company, The. (See Rollman, Bruce, assignor.)
- Ohio Foundry & Manufacturing Co., The. (See Sharp, William L., assignor.)
- Ohio Galvanizing & Manufacturing Company. (See Bentley, Frank F., assignor.)
- Ohio Galvanizing & Manufacturing Company. (See Dougherty, Augustus P., assignor.)
- Ohio Match Company, The. (See Lahr, H. I., and Helwig, assignors.)
- Ohio Power Shovel Company, The. (See Rauch, John D., assignor.)
- Ohio Rubber Company. (See Bronson, Budd, assignor.)
- Ohio Steel Foundry Company, The. (See Harbison, Clarence, assignor.)
- Ohio Steel Foundry Company, The. (See Harbison, Clarence B., assignor.)
- Ohio Truss Company, The. (See Pease, Isaac M., assignor.)
- Ohio Wood Preserving Company, The. (See Alinder, H., and Shipley, assignors.)
- Ohl, Russell S. (See Demarest, C. S., and Ohl.)
- Ohl, Russell S., Little Silver, N. J., assignor to American Telephone and Telegraph Company. Signaling circuits. 1,698,770; Jan. 15.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,699,567; Jan. 22.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Control device for vacuum tubes. 1,708,027; Apr. 9.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Thermionic vacuum tube. 1,713,615; May 21.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Thermionic vacuum tube. 1,726,580; Sept. 3.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Control of regeneration in signaling system. 1,727,408; Sept. 10.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,735,053; Nov. 12.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Multichannel radio printing-telegraph system. 1,737,671; Dec. 3.
- Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Radio printing-telegraph system. 1,737,672; Dec. 3.
- Ohlau, George H., assignor to Eastman Kodak Company, Rochester, N. Y. Aviation camera-shutter-operating mechanism. 1,698,063; Jan. 8.
- Ohlendorf, Heinrich. (See Herzberg, W., and Ohlendorf.)
- Ohler, Frank L. (See Thurston, E. B., and Ohler.)
- Ohler, Harry C., Lincoln, assignor to Patriot Manufacturing Company, Havelock, Nebr. Highway weed cutter. 1,726,918; Sept. 3.
- Ohlert, George P., Baltimore, Md. Automobile signal lamp. 1,728,005; Sept. 10.
- Ohlsen, Arthur A. C., San Francisco, Calif. Safety device for high-tension wires. 1,729,276; Sept. 24.
- Ohlsen, Mark P., assignor to Brillion Iron Works, Brillion, Wis. Soil-pulverizing machine. 1,703,539; Feb. 26.
- Ohlson, John B., assignor to The Vortex Mfg. Co., Chicago, Ill. Dispenser. 1,736,214; Nov. 19.
- Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Flexible shaft. 1,710,237; Apr. 23.
- Ohlsson, Charles H., assignor to Hefter & Company, New York, N. Y. Machine for lining paper-box blanks. 1,732,948; Oct. 22.
- Ohlsson, Ernst. (See Isermann, S., Orelup, and Ohlsson.)
- Ohm, Albert J. D., Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 79,043; July 23.
- Ohm, Albert J. D., Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 79,044; July 23.
- Ohm, Albert J. D., Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 79,045; July 23.
- Ohm, Albert J. D., Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 79,046; July 23.
- Ohm, Albert J. D., Oak Park, Ill., assignor to R. Williamson & Company, Chicago, Ill. Lighting-fixture shade. Des. 79,237; Aug. 20.



- Ohm, Albert J. D., Oak Park, assignor to R. Williamson & Company, Chicago, Ill. Lighting fixture. Des. 79,333; Sept. 3.
- Ohm, Albert J. D., assignor to Inland Glass Works, Inc., Chicago, Ill. Lamp globe. Des. 79,410; Sept. 10.
- Ohm, Albert J. D., Oak Park, assignor, by mesne assignments, to Beardslee Chandelier Manufacturing Co., Chicago, Ill. Lighting fixture. Des. 79,478; Sept. 24.
- Ohm, Albert J. D., Oak Park, assignor, by mesne assignments, to Beardslee Chandelier Manufacturing Co., Chicago, Ill. Lighting fixture shade. Des. 79,979; Nov. 26.
- Ohm, Albert J. D., Oak Park, assignor, by mesne assignments, to Beardslee Chandelier Manufacturing Co., Chicago, Ill. Lighting fixture. 1,737,265; Nov. 26.
- Ohm, Charles H. (See Butman, Louis S., assignor.)
- Ohman, Willihard T., Great Kills, N. Y. Electric-wire service box. 1,715,073; May 28.
- Ohmer Fare Register Company. (See Ohmer, John F., assignor.)
- Ohmer Fare Register Company. (See Palmer, Brian C., assignor.)
- Ohmer Fare Register Company. (See Wheelbarger, Albert S., assignor.)
- Ohmer, John F., assignor to Ohmer Fare Register Company, Dayton, Ohio. Ink roll. 1,711,245; Apr. 30.
- Ohmer, John F., assignor to Ohmer Fare Register Company, Dayton, Ohio. Recording device. 1,736,416; Nov. 19.
- Ohno, Tadashi, Hongoku, Tokyo, Japan. Shutter. 1,715,424; June 4.
- Ohno, Tadashi, Tokyo, Japan. Shutter. 1,723,487; Aug. 6.
- Ohnstrand, Enoch, Mohawk, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Locking anchor for card trays. 1,697,286; Jan. 1.
- Ohnstrand, Enoch, Mohawk, assignor, by mesne assignments, to Remington Rand, Inc., New York, N. Y. Filing tray. 1,725,823; Aug. 27.
- Oil Conservation Engineering Company, The. (See Calhoun, Tracy J., assignor.)
- Oil Devices Corporation. (See Breese, James L., Jr., assignor.)
- Oilgear Company, The. (See Barrett, L. A., and Ferris, assignors.)
- Oilgear Company, The. (See Ferris, Walter, assignor.)
- Oilgear Company, The. (See Young, Lawrence F., assignor.)
- Oil Jack, Inc. (See Pedersen, Thomas W., assignor.)
- Oil-O-Treat Company. (See Woods, D. E., and Neel, assignor.)
- Oil Products Appliance Co. (See Davenport, Arthur E., assignor.)
- Oil Products Appliance Co. (See Joncha, Anton, assignor.)
- Oil Recovery Corporation, The. (See Davis, Ray L., assignor.)
- Oil Recovery Corporation, The. (See Powell, Dalton U., assignor.)
- Oil Well Rejuvenating Corporation. (See Husted, Lemuel J., assignor.)
- Oil Well Supply Company. (See Keim, Lester, assignor.)
- Oil Well Supply Company. (See Lemcx, John D., assignor.)
- Oil Well Supply Company. (See Mack, Patrick H., assignor.)
- Oil Well Supply Company. (See Morlang, H. J., and Russell, assignors.)
- Oishei, Bernard F., assignor to Trico Products Corporation, Buffalo, N. Y. Combined cigar lighter and windshield heater. 1,707,681; Apr. 2.
- Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,697,136; Jan. 1.
- Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Automatic windshield cleaner. 1,712,160; May 7.
- Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Motor vehicle. 1,719,444; July 2.
- Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Reciprocating automatic windshield cleaner. 1,722,535; July 30.
- Oishei, John R., and H. Hueber, assignor to Trico Products Corporation, Buffalo, N. Y. Automatic windshield cleaner. 1,738,311; Dec. 3.
- Okabe, Kinjiro, Sendai, Japan. Vacuum tube. 1,735,294; Nov. 12.
- Okadee Company, The. (See Ayers, Augustine R., assignor.)
- Okadee Company, The. (See Vissering, Harry, assignor.)
- O'Kane, Walter C., et al., trustees. (See Hartzell, A., and Lathrop, assignors.)
- O'Keefe, George W., Milton, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Air-break electric switch. 1,731,200; Oct. 8.
- O'Keefe, George W., Milton, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Air-break electric switch and operating electromagnet therefor. 1,731,201; Oct. 8.
- O'Keefe, George W., Dorchester, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Thermal cut-out. 1,737,673; Dec. 3.
- O'Keefe, George W., Dorchester, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Thermal cut-out. 1,737,674; Dec. 3.
- O'Keeffe, Thomas J., Cambridge, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for splitting leather. 1,723,201; Aug. 6.
- Oklahoma Iron Works. (See Wright, William assignor.)
- Okochi, Masatosi, Tokyo, Japan. Apparatus for collecting volatile substances. 1,721,033; July 16.
- Okochi, Masatosi, and K. Ebihara, assignors to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Apparatus for measuring pressure of piston rings. 1,698,200; Jan. 8.
- Okochi, Masatosi, Shitaya-Ku, Tokyo, and K. Ebihara, Koishikawa-Ku, Tokyo, assignors to Zaidan Hojin Rikagaku Kenkyujo, Hongo-Ku, Tokyo, Japan. Manufacturing metallic rings for packing purposes. 1,705,643; Mar. 19.
- Okrainetz, Leizor, and M. Syrkin, New York, N. Y. Shoe-lace fastener. 1,703,689; Feb. 26.
- Okumura, Torataro, et al. (See Yoshimoto, Sukesaku, assignor.)
- Okuri, Torazo, Tokyo, Japan. Binder for laminated mica products. 1,707,277; Apr. 2.
- Olafson, Alvin O., St. Paul, Minn. Razor stropper. 1,704,099; Mar. 5.
- Olafson, Alvin O., assignor to National Traffic Signal Company, St. Paul, Minn. Traffic signal. 1,719,020; July 2.
- Oland, Charles D., assignor to Electric-Pneumatic Skid Co., Centralia, Ill. Automatic control for car retarders. 1,708,892; Apr. 9.
- Olander, Alden C., Chicago, Ill. Coin-operated nerve and eye testing machine. 1,708,734; Apr. 9.
- Olander, Milton M., Champaign, Ill. Combination shelf and clothesrack. 1,711,854; May 7.
- Olazabal, Frederick F., Los Angeles, Calif. Magazine hammer. 1,698,855; Jan. 15.
- Olberg, Charles R., Los Angeles, Calif. Multiple-dome dam. 1,708,452; Apr. 9.
- Olbon, John A., Haledon, assignor to one-half to F. Simon, Paterson, N. J. Spinner for game devices. 1,703,498; Feb. 26.
- Olch, Jacob B., Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off device for looms. 1,707,412; Apr. 2.
- Olcott, James H., Waterbury, Conn. Shutter lock for cameras. 1,740,112; Dec. 17.
- Old Ben Coal Corporation. (See Greene, F. C., and Laucks, assignors.)
- Old Ben Coal Corporation. (See Laucks, Irving F., assignor.)
- Old Colony Envelope Company. (See Fountain, Joseph N., assignor.)
- Old Colony Trust Company, trustee. (See Cheney, Thordike F., assignor.)
- Old Dominion Iron and Steel Works. (See Wheelwright, Thomas S., assignor.)
- Oldberg, Virgil, Highland Park, Mich. Muffler. 1,732,318; Oct. 22.
- Oldenbusch, Ernest, Brooklyn, N. Y. Holder for graphic instruments. 1,730,287; Oct. 1.
- Oldewurtel, Anthony J., Baltimore, Md. Safety pocket. 1,701,418; Feb. 5.
- Oldfield, Lee, Chicago, Ill. Steering mechanism. 1,732,586; Oct. 22.
- Oldfield, Lee, and C. R. Rowson, Chicago, Ill. Motor vehicle. 1,706,983; Mar. 26.
- Oldham, Bert C. (See Marble, Wilbur N., assignor.)
- Oldham, Oliver, assignor to one-fourth to C. Hartley, Bedford, Ind. Battery-cable clamp. 1,735,782; Nov. 12.
- Oldright, George L. (See McIntosh, Donald H., assignor.)
- O'Leary, Albert H. (See Cockburn, William R., assignor.)
- O'Leary, Joseph T., Elizabeth, N. J., assignor to American Telephone and Telegraph Company. Carrier-current system superposed on side circuit of phantom system. 1,721,572; July 23.
- Olesen, Harold L. (See Engle, E. W., and Olesen.)
- Olesen, Peter V., Chicago, Ill. Gas-burning heater. 1,705,532; Mar. 19.
- Olguin, Gustavo, assignor to one-half to R. E. Olguin, San Antonio, Tex. Tackless automobile top. 1,709,367; Apr. 16.
- Olguin, Roberto E. (See Olguin, Gustavo, assignor.)
- Olleman, Willem, Gemeente Pijnacker, Netherlands. Machine for sorting fruit, vegetables, and products of like nature. 1,699,909; Jan. 22.
- Olin, Frank W. (See Roberts, Joseph H., assignor.)
- Olin, John M., and A. G. Schuricht, Alton, assignors to Western Cartridge Company, East Alton, Ill. Small-caliber rifle bullet and making the same. 1,732,211; Oct. 15.
- Olin, John M., and J. B. Smith, assignors to Western Cartridge Company, East Alton, Ill. Detonator package. 1,698,962; Jan. 15.
- Olinger, Alton M., Everett, Wash. Display cabinet. 1,702,361; Feb. 19.
- Olinger, Jacob M., Springfield, Ohio. Gas heating stove. 1,719,994; July 9.
- Oliphant, Dudley, Dulwich, South Australia, Australia. Air control for internal-combustion engines. 1,710,488; Apr. 23.
- Oliphant, Henry G., Houston, Tex., assignor of one-third to P. E. Putnam. Channel knife. 1,738,019; Dec. 3.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Combined mechanical and air lift pumping system. 1,702,838; Feb. 19.



- Olipphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Portable pumping and compressor mechanism. 1,718,178; June 18.
- Olipphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air lift system. 1,730,682; Oct. 8.
- Olipphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Pumping system. 1,741,069; Dec. 24.
- Olipphant, Walter R., Marietta, Okla. Wind motor. 1,714,808; May 28.
- Olivarius, Holger De F., assignor to California Packing Corporation, San Francisco, Calif. Recovering sucrose from cane molasses. 1,730,473; Oct. 8.
- Olivas, George H. (See Swim, L. C., Olivas, and Brewer.)
- Oliver, Annie M. C., Ranger, Tex. Combined toothbrush and dental foss holder. 1,738,389; Dec. 3.
- Oliver Chilled Plow Works. (See Altgelt, Herman E., assignor.)
- Oliver Chilled Plow Works. (See Altgelt, R. J., and Gemberling, assignors.)
- Oliver Chilled Plow Works. (See Altgelt, Rudolph J. and H. E., assignors.)
- Oliver Continuous Filter Company. (See Duschak, Lionel H., assignor.)
- Oliver, Eben F., Jersey City, N. J., assignor to Korreclolite Company, Inc., New York, N. Y. Lighting fixture. 1,738,666; Dec. 10.
- Oliver, Edwin L., Piedmont, Calif., assignor to Oliver-Sherwood, Co. Elastic seal. 1,715,944; June 4.
- Oliver, Ernon V., Phoenix, Ariz. Condenser. 1,723,575; Aug. 6.
- Oliver, Everett B., Chicago, Ill. Lubricator. 1,714,809; May 28.
- Oliver Farm Equipment Company. (See Altgelt, Herman E., assignor.)
- Oliver Farm Equipment Company. (See Altgelt, Rudolph J., assignor.)
- Oliver Farm Equipment Company. (See Gallagher, Arthur D., assignor.)
- Oliver Farm Equipment Company. (See Gemberling, Cameron H., assignor.)
- Oliver, George R. (See Eason, C. M., and Oliver.)
- Oliver, George W., Chicago, Ill. Ash-tray holder. 1,716,550; June 11.
- Oliver, Herbert G., Mamaroneck, N. Y. Hairpin clip. 1,735,010; Nov. 12.
- Oliver, Herbert G., New York, N. Y. Spacing device. 1,735,127; Nov. 12.
- Oliver, Isaac, Binghamton, N. Y. Textile spool and bobbin. 1,700,593; Jan. 29.
- Oliver, John G. (See Hornberger, Earl J., assignor.)
- Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Stopping and starting mechanism for shoe-stitching or other machines. 1,697,999; Jan. 8.
- Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Press for cutting or punching sheet material. 1,699,247; Jan. 15.
- Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Sewing machine. 1,712,517; May 14.
- Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Sewing machine. 1,716,561; June 11.
- Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Welt-sewing machine. 1,716,562; June 11.
- Oliver, John S., London, England. Internal-combustion engine. 1,700,948; Feb. 5.
- Oliver, Mary, et al. (See Anderson, William, assignor.)
- Oliver, Omer D., Gary, Ind. Dump-car door. 1,706,936; Mar. 26.
- Oliver, Paul R., Akron, Ohio. Starting panel for electric motors. 1,712,967; May 14.
- Oliver, Peter R., sr., Washington, D. C. Steering-wheel knob. 1,735,783; Nov. 12.
- Oliver, Robert, and F. W. Gooch, Auckland, New Zealand. Screen for the projection of moving pictures, lantern slides, or the like. 1,701,590; Feb. 12.
- Oliver, Robert S., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird-cage body. Des. 79,097; July 30.
- Oliver, Samuel E., Galveston, Tex. Preserving fresh fruit. 1,729,893; Oct. 1.
- Oliver-Sherwood Co. (See Oliver, Edwin L., assignor.)
- Oliver-Sherwood Co. (See Sherwood, Charles F., assignor.)
- Oliver United Filters Incorporated. (See Buschak, Lionel H., assignor.)
- Oliver United Filters, Inc. (See Cannon, Hugh H., assignor.)
- Oliver United Filters, Inc. (See Sweetland, Ernest J., assignor.)
- Oliver, Wallace F., Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Piston for hydraulic brake mechanism. 1,711,206; Apr. 30.
- Oliver, Walter E., South Boston, Mass. Collar support. 1,723,202; Aug. 6.
- Oliver, Walter E., Woodcliff, assignor to Autographic Register Co., Hoboken, N. J. Manifolding device. 1,730,524; Oct. 8.
- Oliver, Walter E., Woodcliff, assignor to Autographic Register Co., Hoboken, N. J. Manifolding device. 1,730,525; Oct. 8.
- Olivier, Herman C., assignor to General Motors Corporation, Detroit, Mich. Internal-brake dust guard. 1,737,325; Nov. 26.
- Oller, Emmett E., Leitchfield, Ky. Tin-cutting device. 1,730,474; Oct. 8.
- Ollerenshaw, Reginald E., London, England. Electric flashing device. 1,715,172; May 28.
- Ollerenshaw, Reginald E., London, England. Control means for multiple-way electric-circuit device. 1,735,357; Nov. 12.
- Ollsbeimer, Lawrence J., assignor to Sprucolite Corporation, Inc., West Orange, N. J. Compressed laminated fibrous product and making the same. 1,707,135; Mar. 26.
- Olley, Raymond H. (See Pearson, J. T., and Olley.)
- Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Electrical plug. 1,710,269; Apr. 23.
- Olley, Raymond H., Syracuse, assignor to Crouse-Hinds Company, Syracuse, N. Y. Lamp shade, globe, and guard holder for conduit outlet boxes. 1,718,975; July 2.
- Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Switch-operating mechanism. 1,726,064; Sept. 3.
- Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Portable electric lamp. 1,735,295; Nov. 12.
- Olm, Oscar J., Minneapolis, assignor to Quality Park Envelope Company, St. Paul, Minn. Envelope and portfolio. 1,734,642; Nov. 5.
- Olmstead, Frederick A., Cleveland Heights, assignor to The Chain Products Company, Cleveland, Ohio. Chain tool. 1,732,654; Oct. 22.
- Olmstead, Henry H., Wharton, N. J. Removing static electricity. 1,728,167; Sept. 10.
- Olmsted, Arthur N., Cedarburg, Wis. Automatic can washer. 1,717,998; June 18.
- Olmsted, Chancy S. (See Weickman, A., and Olmsted.)
- Olmsted, Elmer S., assignor to Cheatham Electric Switching Device Co., Inc., Louisville, Ky. Electrically operated and controlled railway switching device. 1,706,037; Mar. 19.
- Olmsted, George E. (See Monaghan, Thomas S., assignor.)
- Olmsted, Roger W. (See Browne, W. G., and Olmsted.)
- Olmsted, Roger W., assignor to Foster & Kleiser Company, San Francisco, Calif. Poster-banger's scaffold. 1,709,368; Apr. 16.
- Olney, Benjamin, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Amplifying system. 1,719,445; July 2.
- Olney, George J., Westernville, N. Y. Sorting machine. 1,703,591; Feb. 26.
- Olney, George J., Westernville, N. Y. Pea cleaning and sorting machine. 1,728,076; Sept. 10.
- Olney, Oscar L., Wilmington, assignor to Dirigible Headlight Company, Inc., Lake Placid, N. Y. Dirigible headlight. 1,727,248; Sept. 3.
- Olney, Oscar L., and J. B. Hurley, assignors to Dirigible Headlight Company, Inc., Lake Placid, N. Y. Dirigible headlight. 1,733,900; Oct. 29.
- Olofson, Carl F. E. (See Lindstrom, N. O., and Olofson.)
- Olofson, Carl F. E., West Orange, N. J., assignor to A. B. See Elevator Company, Inc. Elevator-control device. 1,699,625; Jan. 22.
- O'Loughlin, Charles E. A., St. Paul, Minn. Vegetable peeler. 1,739,517; Dec. 17.
- Olsen, William N., San Francisco, Calif. Coin-controlled radio reception apparatus. 1,702,411; Feb. 19.
- Olsen, Andrew, jr., and J. A., assignors to Golden Nugget Sweets, San Francisco, Calif. Candy-cutting machine. 1,740,111; Dec. 17.
- Olsen, Arthur J., assignor to Beall Pipe and Tank Corporation, Portland, Oreg. Expanding mandrel. 1,719,720; July 2.
- Olsen, Edgar H. (See Good, J., and Olsen.)
- Olsen Engine Syndicate Limited, The. (See Olsen, Simon D., assignor.)
- Olsen, Fredrich, Dover, N. J. High-explosive composition. 1,705,874; Mar. 19.
- Olsen, George A., Jersey City, N. J. Utensil-holding device. 1,712,675; May 14.
- Olsen, George F., Los Angeles, Calif. Dewaxing lubricants by double centrifuging. 1,715,670; June 4.
- Olsen, George F., Los Angeles, Calif. Recovery of entrained oils from clay. 1,720,144; July 9.
- Olsen, George F., Los Angeles, Calif., assignor to General Petroleum Corporation of California. Acid treatment of lubricating oils. 1,704,206; Mar. 5.
- Olsen, George F., Los Angeles, Calif., assignor to General Petroleum Corporation of California. Stabilizing clay-treated oils. 1,724,510; Aug. 13.
- Olsen, Gustav. (See Albertson, F. O., and Olsen.)
- Olsen, James A. (See Olsen, Andrew, jr., and J. A.)
- Olsen, Jems P., assignor of one-half to O. B. Rogers, Newell, Iowa. Reversible end gate. 1,710,944; Apr. 30.
- Olsen, John, Rock Rapids, Iowa. Pin spotter. 1,700,175; Jan. 29.
- Olsen, John, Rock Rapids, Iowa. Combination pin setter and pin spotter. 1,700,176; Jan. 29.
- Olsen, John K., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. 1,707,990; Apr. 9.
- Olsen, Joseph, Los Angeles, Calif. Cutter attachment for paper-tape machines. 1,734,643; Nov. 5.
- Olsen, Lawrence, Philadelphia, Pa. Gas meter. 1,727,935; Sept. 10.



- Olsen Manufacturing Company. (See Levandowske, Louis, assignor.)
- Olsen, Olaf C., Dayton, Ohio, assignor of two-thirds to The Borden Company, Warren, Ohio. Refrigerating apparatus. 1,741,652; Dec. 31.
- Olsen, Otto, Brooklyn, N. Y. Floor scraper. 1,724,103; Aug. 13.
- Olsen, Simon D., assignor to The Olsen Engine Syndicate Limited, Albany Wharf, London, England. Pneumatic or like tool. 1,717,999; June 18.
- Olsen, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Automatic releasing mechanism. 1,704,207; Mar. 5.
- Olsen, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Folding machine. 1,710,029; Apr. 23.
- Olsen, Andrew, Jr., and J. A., San Francisco, Calif. Candy-mixing machine. 1,697,365; Jan. 1.
- Olsen, Annie M. Rolette, N. Dak. Kitchen tool. 1,703,356; Feb. 26.
- Olsen, Arthur L., Racine, Wis. French fryer. 1,712,161; May 7.
- Olsen Brothers Saw Manufacturing Company. (See Anderson, Emil, assignor.)
- Olson, Carl A., assignor to Clarinda Manufacturing Company, Clarinda, Iowa. Lawn mower. 1,721,744; July 23.
- Olson, Carl A., assignor to Clarinda Manufacturing Company, Clarinda, Iowa. Lawn mower. 1,738,480; Dec. 3.
- Olson, Carl A., F. L. Buch, and T. E. Brooks, assignors to Lisle Manufacturing Company, Clarinda, Iowa. Brake-relining machine. 1,702,569; Feb. 19.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hob-grinding machine. 1,702,520; Feb. 19.
- Olson, Carl G., assignor to Shakeproof Lock Washer Company, Incorporated, Division of Illinois Tool Works, Chicago, Ill. Lock washer. 1,715,777; June 4.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Milling cutter. 1,729,050; Sept. 24.
- Olson, Carl G., assignor to Shakeproof Lock Washer Company, Chicago, Ill. Lock washer. 1,740,113; Dec. 17.
- Olson, Carl G., Kenilworth, Ill. Automobile race game. 1,729,049; Sept. 24.
- Olson, Charles A., and C. H. Beckwith, Geneva, assignors to Crane Co., Chicago, Ill. Motor-operated valve unit. 1,736,417; Nov. 19.
- Olson, Fletcher M., Robbinsdale, Minn. Insulating material. 1,726,040; Aug. 27.
- Olson, Frederick, Chicago, Ill. Filtering machine. 1,726,758; Sept. 3.
- Olson, Frederick, Chicago, Ill. Filter bag. 1,738,114; Dec. 3.
- Olson, George W., Muskegon, Mich. Ring-clamping mechanism for milling machines. 1,739,412; Dec. 10.
- Olson, George W., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Piston-ring-grinding apparatus. 1,735,333; Nov. 12.
- Olson, Gottfrid. (See Steiner, G. A., and Olson.)
- Olson, Gottfrid, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,721,970; July 23.
- Olson, Hans, Pontiac, Mich. Bracket. 1,707,921; Apr. 2.
- Olson, Herbert O., La Grange Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing apparatus. 1,735,871; Nov. 19.
- Olson, John, Minneapolis, Minn. Making composition tubs. 1,705,780; Mar. 19.
- Olson, John A., assignor to S-P Manufacturing Company, Cleveland, Ohio. Chuck. 1,713,973; May 21.
- Olson, John B. (See Markey, G. T., and Olson.)
- Olson, John B., assignor to James Manufacturing Company, Fort Atkinson, Wis. Gate latch. 1,711,743; May 7.
- Olson, John E., Bloomfield, Nebr. Spark-plug wrench. 1,734,270; Nov. 5.
- Olson, John O., Clearwater, Fla. Painting machine. 1,725,719; Aug. 20.
- Olson, John W. (See Schaleh, J., and Olson.)
- Olson Manufacturing Company. (See Hanson, Casper F., assignor.)
- Olson, Nels L., Detroit, Mich. Spring suspension for vehicles. 1,725,015; Aug. 20.
- Olson, Nils G., Boston, Mass., assignor of one-half to K. G. Heed, Chicago, Ill. Oil can. 1,735,784; Nov. 12.
- Olson, Oliver A., Minneapolis, Minn. Railroad spike. 1,736,168; Nov. 19.
- Olson, Otto. (See Parson, Ossian, assignor.)
- Olson, Percy W., St. Paul, Minn., assignor to W. S. Ferris, Elkhart, Ind., trading as The Domore Chair Company. Back-rest construction. 1,734,179; Nov. 5.
- Olson, Percy W., St. Paul, Minn., assignor to W. S. Ferris, Elkhart, Ind., trading as The Domore Chair Company. Back-rest arrangement. 1,734,180; Nov. 5.
- Olson, Peter, Oak Park, assignor to Samuel Olson & Company, Chicago, Ill. Pneumatic-dispatch-tube apparatus. 1,704,836; Mar. 12.
- Olson, Samuel, Oak Park, assignor to Samuel Olson & Company, Chicago, Ill. Automatic transfer mechanism for conveyers. Re17,517; Dec. 10.
- Olson, Samuel, assignor of one-fifth to W. F. Smith, one-fifth to P. Van Horne, one-fifth to R. F. Starr, one-fifth to O. T. Weber, and one-fifth to Samuel Olson & Company, Chicago, Ill. Dish-drying apparatus. 1,697,879; Jan. 8.
- Olson, Samuel, Oak Park, assignor to Samuel Olson & Company, Chicago, Ill. Control device for pneumatic dispatch-tube apparatus. 1,722,536; July 30.
- Olson, Samuel, Oak Park, assignor to Samuel Olson & Company, Chicago, Ill. Control device for pneumatic dispatch-tube apparatus. 1,722,537; July 30.
- Olson, Samuel, Oak Park, assignor to Samuel Olson & Company, Chicago, Ill. Control device for pneumatic-dispatch-tube apparatus. 1,726,677; Sept. 3.
- Olson, Samuel, assignor to Samuel Olson & Company, Chicago, Ill. Discharging device for conveyers. 1,732,376; Oct. 22.
- Olson, Samuel, assignor to Samuel Olson & Company, Chicago, Ill. Automatic unloader for elevators. 1,736,011; Nov. 19.
- Olson, Samuel, & Company. (See Olson, Peter, assignor.)
- Olson, Samuel, & Company. (See Olson, Samuel, assignor.)
- Olson, Swan H., Saratoga, Wyo. Runner attachment for automobiles. 1,733,313; Oct. 29.
- Olson, Thomas A., Houston, Tex. Cleaning device. 1,718,179; June 18.
- Olson, Thomas J., New Rockford, N. Dak. Safety signaling apparatus. 1,699,626; Jan. 22.
- Olsson, Bengt, Brooklyn, assignor, by mesne assignments, to Salvage Process Corporation, New York, N. Y. Oil-pumping apparatus. 1,736,620; Nov. 19.
- Olsson, Einar, and B. Ell, Sundbyberg, near Stockholm, Sweden. Junction box for electric lead-covered cables and the like. 1,697,539; Jan. 1.
- Olsson, Johan G., assignor to Aktiebolaget Svenska Fläktfabriken, Stockholm, Sweden. Increasing the capacity of drying installations. 1,697,927; Jan. 8.
- Olston, Otto, Chicago, Ill. Centrifugal air-float pulverizer. 1,713,297; May 14.
- Olund, Nels A., Cambridge, Minn. Automobile top. 1,697,471; Jan. 1.
- O'Malley, John F., New York, N. Y. Safety razor. 1,719,670; July 2.
- Oman, Carl. (See Bradshaw, W. M., and Oman.)
- Oman, Carl, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction meter. 1,702,450; Feb. 19.
- Oman, Carl, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,707,278; Apr. 2.
- Oman, Carl, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,709,803; Apr. 16.
- Oman, Carl W., assignor to The Smith & Winchester Mfg. Co., South Windham, Conn. Paste cut-out. 1,726,449; Aug. 27.
- O'Meara, Richard L., assignor to Mechanical Manufacturing Company, Chicago, Ill. Machine for treating animal offal and the like. 1,717,465; June 18.
- O'Meara, Thomas J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-car retarder. 1,698,447; Jan. 8.
- O'Meara, Thomas J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-switch-operating apparatus. 1,711,060; Apr. 30.
- Omoto, Bunnosuke, Green River, Wyo. Automobile tire. Des. 79,528; Oct. 1.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Rotary-shaft chain-stitch machine. 1,725,294; Aug. 20.
- 103<sup>rd</sup> Incubator Company. (See Kaiser, Peter, assignor.)
- O'Neal Duro Company. (See Motter, James S., assignor.)
- O'Neal, George R., Washington, D. C. Automatic water heater. 1,704,807; Mar. 12.
- Oneida Community, Limited. (See Allen, Grosvenor N., assignor.)
- Oneida Community, Limited. (See Burnham, Chester W., assignor.)
- Oneida Community, Limited. (See Gray, D., Bailey, and Murray, assignors.)
- O'Neil, Arthur S., Alton, assignor to Western Cartridge Company, East Alton, Ill. Propellant powders. 1,709,868; Apr. 23.
- O'Neil, Arthur S., Alton, assignor to Western Cartridge Company, East Alton, Ill. Propellant powder and making the same. 1,709,869; Apr. 23.
- O'Neil, Arthur S., Alton, assignor to Western Cartridge Company, East Alton, Ill. Propellant powder and making the same. 1,709,870; Apr. 23.
- O'Neil, Arthur S., and A. J. Hindrichs, Alton, assignors to Western Cartridge Company, East Alton, Ill. Waterproofing materials. 1,729,650; Oct. 1.
- O'Neil, Leo J., and L. B. Becker, New Orleans, La. Gas mixer. 1,730,288; Oct. 1.
- O'Neil, James A., Lynn, Mass., assignor to General Electric Company. Globe holder. 1,742,179; Dec. 31.
- O'Neil, Reuben F., Oakland, Calif. Safety counter bill file. 1,705,306; Mar. 12.
- O'Neill, Charles F., New York, N. Y. Automobile light. 1,714,317; May 21.
- O'Neill, Eugene J. (See Breitenbach, H. P., O'Neill, and Kay.)
- O'Neill, Felix, Salem, Oreg. Novelty. 1,724,770; Aug. 13.
- O'Neill, James A., Springfield, Mass. Making imitation marquetry, parquetry, inlays, etc. 1,703,746; Feb. 26.
- O'Neill, John H., Springfield, Mo. Air spring. 1,733,467; Oct. 29.
- O'Neill, Joseph A., New York, N. Y. Toilet accessory. 1,715,860; June 4.



- O'Neill, Philip M., and A. J. Simeone, Corona, assignors to American Chic Company, Long Island City, N. Y. Spreader feed for plastic strips. 1,735,472; Nov. 12.
- O'Neill, Walter I., New York, N. Y. Airplane helicopter. 1,735,872; Nov. 19.
- O'Neill, William, Milwaukee, Wis. Safety device for passenger vehicles. 1,709,319; Apr. 16.
- O'Neill, William J., River Forest, assignor to E. J. Mercil, Oak Park, Ill. Electroplating apparatus. 1,726,308; Aug. 27.
- Ong, John W., Mount Pleasant, Ohio. Shiftable tray for bank windows. 1,733,131; Oct. 29.
- Ongman, Clarence S. (See Gullborg, J. S., and Ongman.)
- Onnertz, Paul, Berlin-Wilmersdorf, and H. Wesche and K. Brodersen, Dessau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Nondeliquescent product from sulphite waste liquor. 1,731,433; Oct. 15.
- Ono, Chozo, Kaamakura-machi, Kamakura-gun, Kanagawa-ken, Japan. Disposition of bulkheads in oil-carrying ships. 1,699,709; Jan. 22.
- Ono, Kyujiro, Los Angeles, Calif. Artificial fish bait. 1,723,557; Aug. 6.
- Ono, Shun I. (See Golovtchikoff, Alexander, A., assignor.)
- Onondaga Steel Company. (See Briggs, Arthur J., assignor.)
- Onstad, Albert H., Tacoma, Wash. Lumber-sorting machine. 1,706,632; Mar. 26.
- Onsrud Machine Works, Inc. (See Onsrud, Oscar, assignor.)
- Onsrud, Oscar, assignor to Onsrud Machine Works, Inc., Chicago, Ill. Wood shaper. 1,715,380; June 4.
- Onsrud, Rudolph F., Chicago, Ill. Finishing room. 1,697,079; Jan. 1.
- Ontario Silver Company. (See Moon, Charles R., assignor.)
- Onthank, Emma A., et al. (See Kivlan, John L., assignor.)
- Onysko, Wasyl, Fall River, Mass. Flying toy. 1,727,726; Sept. 10.
- Oosterhuis, Ekko. (See Dobben, P. W., Mulder, and Oosterhuis.)
- Oosterhuis, Ekko. (See Holst, G., and Oosterhuis.)
- Opalite Corporation. (See Muehlenbeck, Fred P., assignor.)
- Open Hearth Combustion Company. (See Danforth, George L., jr., assignor.)
- Operadio Manufacturing Co. (See Stone, John M., assignor.)
- Operato, Silvio, assignor of one-half to A. Abati, Paterson, N. J. Whip-roll support for looms. 1,720,141; July 9.
- Operators Piano Company, The. (See Esmail, Elisha J., assignor.)
- Opey, Frank, Detroit, Mich. Window ventilator. 1,698,483; Jan. 8.
- Opfergelt, Raymond J., Inglewood, Calif. Cardcase. 1,697,366; Jan. 1.
- Opferkuck, Emil, assignor, by mesne assignments, to Superior Engine Company, Springfield, Ohio. Oil-well power mechanism. 1,696,967; Jan. 1.
- Opie, Ernest J., Menands, and J. S. Goldsworthy, Watervliet, assignors to M. P. Manufacturing Company, Albany, N. Y. Reclaiming worn piston pins. 1,722,389; July 30.
- Opitz, Bernhard O., assignor of one-third to F. J. Sterne and one-third to J. Dunne, Portland, Ore. Device for making shoe-string potatoes. 1,738,148; Dec. 3.
- Opitz, Charles E., New York, N. Y. Insect trap. 1,715,173; May 28.
- Opitz, Fred M., assignor to Hexcel Radiator Company, Milwaukee, Wis. Radiator. 1,706,584; Mar. 26.
- Opitz, Joseph, Hainitz, Saxony, Germany. Trough for wet spinning machinery. 1,726,117; Aug. 27.
- Opitz, William H., Beaver, assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Oil pump. 1,713,759; June 25.
- Oplinger, Kirk A., and L. H. Hill, Sharon, Pa., assignors to Westinghouse Electric and Manufacturing Company. Tap-changer mechanism. 1,736,459; Nov. 19.
- Oppenheim, Charles, assignor to Sears, Roebuck and Co., Chicago, Ill. Watchcase. Des. 77,787; Feb. 19.
- Oppenheim, Charles, assignor to Sears, Roebuck and Co., Chicago, Ill. Watch fob. Des. 79,160; Aug. 6.
- Oppenheim, Charles J., Jr., New York, N. Y. Display box. 1,722,013; July 23.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor wall. Des. 78,222; Apr. 9.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor wall. Des. 78,223; Apr. 9.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor wall. Des. 78,306; Apr. 16.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor wall. Des. 78,307; Apr. 16.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor wall. Des. 78,308; Apr. 16.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor wall. Des. 78,405; Apr. 30.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor wall. Des. 78,696; June 4.
- Oppenheim, David, assignor to American Yvette Company, Inc., New York, N. Y. Beauty-parlor front-entrance unit. Des. 79,047; July 23.
- Oppenheim, Ferdinand S., New York, N. Y. Container. 1,713,548; May 21.
- Oppenheim, Ferdinand S., New York, N. Y. Container. 1,728,894; Sept. 17.
- Oppenheim, Jesse, New York, N. Y. Hairdressing accessory. 1,713,616; May 21.
- Oppenheim, René, assignor to Societe Le Carbone, Levallois-Perret, France. Gas accumulator. 1,717,244; June 11.
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Safety device. 1,724,612; Aug. 13.
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Safety device. 1,724,613; Aug. 13.
- Oppenheim, Theodore H., and B. Selhorst, assignors to The New Idea Spreader Co., Coldwater, Ohio. Safety device. 1,724,614; Aug. 13.
- Oppenheimer, Herbert, New York, N. Y. Method and apparatus for promoting osmotic absorption. 1,697,080; Jan. 1.
- Oppenheimer, Josef, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Wired-wireless device. 1,699,806; Jan. 22.
- Oppenheimer, Ruth B., Crestwood, N. Y. Hair device. 1,736,215; Nov. 19.
- Oppersdorff, Count Eduard, et al. (See Kämpfer, Adolf, assignor.)
- Opremhak, John J., assignor to L. E. Cass, Inc., Schenectady, N. Y. Adjustable leg. 1,707,363; Apr. 2.
- Opsahl, Albert L., St. Paul, Minn. Mattress envelope. 1,699,910; Jan. 22.
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Boykow, Johann, assignor.)
- Orange-Crush Company. (See Repenning, Albert E., assignor.)
- Orange Screen Company. (See Otto, Arthur L., assignor.)
- Orbin, Edwin R., Duquesne, Pa. Metal-pouring apparatus. 1,726,581; Sept. 3.
- Orbon Stove Co. (See Herrenbruck, Herman, assignor.)
- Orbon Stove Co. (See Lehman, Max R., assignor.)
- Orchard, Henry B., London, England. Multiplying numerical calculating device. 1,732,983; Oct. 22.
- Orcutt, C. Blake. (See Battistella, Francis C., assignor.)
- Orcutt, C. Blake. (See Trinks, William W., assignor.)
- Orcutt, Charles C. (See Saviano, Nicola F., assignor.)
- Orcutt, Leon C., Syracuse, assignor, by mesne assignments, to United States Hoffman Machinery Corporation, New York, N. Y. Pressing machine. 1,702,481; Feb. 19.
- Orcutt, Philip D., Boston, Mass. Controlling means for elevators and the like. 1,710,066; Apr. 23.
- Ord, Harriet P., executrix. (See Ord, William.)
- Ord, William, deceased; H. P. Ord, executrix, Chicago, Ill. Railroad-track structure. 1,705,308; Mar. 12.
- Ordelheide, Louis F., Bellflower, Mo. Disk for cultivator attachments. 1,701,983; Feb. 12.
- Ordridge, Frank H., Ruislip, and D. L. H. Williams, Ickenham, assignors to Charles R. Fairey, Hayes, England. Landing gear for aircraft. 1,727,077; Sept. 3.
- Ordway, Donald P., and F. Hanlan, assignors to American Stamping Company, Battle Creek, Mich. Oil cup. 1,722,308; July 30.
- Ordway, Ralph E., Barrington, assignor of one-half to A. Birtwell, East Providence, R. I. Automobile signal. 1,737,386; Nov. 26.
- Orelup, John W. (See Isermann, S., Orelup, and Ohlson.)
- Orgé, Marcel, La Plaine St. Denis, France. Agricultural machine. 1,709,094; Apr. 16.
- Orgill, Arthur R., Memphis, Tenn. Trap. 1,741,429; Dec. 31.
- Original Copywriter Co. (See Thornblade, Carl H., assignor.)
- Oriole Shirt Mfg. Corp. (See Collins, John N., assignor.)
- Orive, Franklin. (See Fidalgo, J., Orive, and Sansó.)
- Ormand, Robert S., Bessemer City, N. C. Picking up cargo by aircraft. 1,737,326; Nov. 26.
- Orme, Wilber L., Cambridge, Ohio. Glass goblet. Des. 78,896; July 2.
- Ormiston, Perley L., Portland, Ore. Apparatus for dispensing globular articles. 1,725,965; Aug. 27.
- Ormont, Bernard, New York, N. Y., assignor to Keystone Chemical & Mfg. Co., Lebanon, Pa. Process of and apparatus for recovering volatile metals. 1,728,359; Sept. 17.
- Ormsbee, Willard A., Taunton, Mass. Suspender buckle. Des. 79,843; Nov. 5.
- Ormsby, Ernest B. (See Phippen, C. F., and Ormsby.)
- Ormsby, Erle, assignor to Central Mine Equipment Company, St. Louis, Mo. Blasting cartridge. 1,738,920; Dec. 10.
- Ornberg, Axel, Wilpen, Minn. Closure cap. 1,742,090; Dec. 31.
- Ornberg, Ivan, assignor to Hupp Motor Car Corporation, Detroit, Mich. Front-bumper construction. Des. 78,647; May 28.
- OrNSTein, Jacques, Hamilton Beach, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,738,195; Dec. 3.



- Oro-Tone Company. (See Grass, Otto R., assignor.)
- O'Rourke, Andrew, Jr., and J. Sprekelmeyer, Dallas, Tex. Gravity-flow sanitary syringe and cabinet unit. 1,732,528; Oct. 22.
- O'Rourke, John F., New York, N. Y. Door. 1,738,792; Dec. 10.
- Orr, Carroll E., Orange, assignor to Elevators Supplies Company, Inc., Hoboken, N. J. Elevator signal system. 1,731,789; Oct. 15.
- Orr, Clark, Fort Wayne, Ind., assignor to General Electric Company. Refrigerating machine. 1,725,472; Aug. 20.
- Orr, Fingal C., Los Angeles, Calif. Rotary sprinkler. 1,710,107; Apr. 23.
- Orr, Fingal C., Los Angeles, Calif. Rotary water sprinkler. 1,730,623; Oct. 8.
- Orr, Francis L., Denver, Colo. Variable-speed transmission. 1,715,778; June 4.
- Orr, Francis L., Sacramento, Calif. Bean cutter. 1,741,709; Dec. 31.
- Orr, James C., Winnipeg, Manitoba, assignor to William Seattle, Wash. Inserted saw tooth. 1,738,149; Dec. 3.
- Orr, James C., Winnipeg, Manitoba, assignor to William J. Christie, Winnipeg, Canada. Damper construction. 1,738,196; Dec. 3.
- Orr, Mark P. (See Gill, D. W., and Orr.)
- Orr, Robert H., Weott, Calif. Sawmill. 1,725,295; Aug. 20.
- Orr, Samuel A., Highland Park, assignor of one half to O. L. Suenderhauf, Drexel Hill, Pa. Railroad-crossing system. 1,706,318; Mar. 19.
- Orr Saw Tooth Grinder Co. (See Orr, Elijah C., assignor.)
- Orr, William H., Camden, N. J. Electric water heater. 1,718,303; June 25.
- Orr, William J., Wilmington, Del. Door holder. 1,711,282; Apr. 30.
- Orr, William J., Wilmington, Del. Door holder. 1,711,283; Apr. 30.
- Orr, William S., assignor to Central Alloy Steel Corporation, Massillon, Ohio. Thickener. 1,734,044; Nov. 5.
- Orrock, John W., Quebec, Montreal, Canada. Mill-type door. 1,710,103; Apr. 23.
- Orsenigo, Henry, Mount Vernon, N. Y. Joint for articles of furniture and the like. 1,726,362; Aug. 27.
- Orsett, Coy, Boston, Mass. Casing for a combined dirigible aeroplane. Des. 78,838; June 25.
- Orstrander, William H., assignor to Novelties Incorporated, Chicago, Ill. Cardcase. 1,701,709; Feb. 12.
- Orth, William P., Milwaukee, Wis. Window frame. 1,712,117; May 7.
- Orthwine, Rudolph, New York, N. Y. Display cabinet. 1,721,132; July 16.
- Orthwine, Rudolph, New York, N. Y. Display cabinet. 1,739,730; Dec. 17.
- Ortiz, Joseph, Brooklyn, N. Y. assignor of one-tenth to W. Bodge, Nutley, N. J. Collapsible box. 1,718,872; June 25.
- Ortman, Charles H., Cleveland, Ohio. Hand protector. 1,731,982; Oct. 15.
- Ortona, Daniel V., Detroit, Mich. Hair-drier casing. Des. 78,586; May 21.
- Oryx Fabrics Corporation. (See Smith, Paul S., assignor.)
- Osage Price Indicator Company, The. (See Elsey, Walter H., assignor.)
- Osann, Frederick, Company. (See Lyons, Robert L., assignor.)
- Osann, Frederick, Company. (See Plumley, Raymond L., assignor.)
- Osann, Norman, Los Angeles, Calif. Double-exposure process. 1,698,448; Jan. 8.
- Osbaldiston, Ernest. (See Macnab, J., and Osbaldiston.)
- Osbeck, Elmer C. (See Roedding, G. E., and Osbeck.)
- Osbeck, Elmer C., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Door latch. 1,710,319; Apr. 23.
- Osbeck, Elmer C., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Door latch. 1,725,880; Aug. 27.
- Osberg, Carl L. (See Fisher, Grover L., assignor.)
- Osborn, Alden E., New York, N. Y. Automatic slack adjuster. 1,720,091; July 9.
- Osborn, Arthur E., Marion, Ind. Paper portfolio. Re17,468; Oct. 22.
- Osborn-Crew Manufacturing Company, The. (See Tambllyn, Milton J., assignor.)
- Osborn, Frederick J., and N. F. Wood, Gosport, England. Frame for motor cycles and like vehicles. 1,715,246; May 28.
- Osborn, Glenn M., Salt Lake City, Utah. Refrigerator. 1,729,182; Sept. 24.
- Osborn Manufacturing Company, The. (See Carman, Edwin S., assignor.)
- Osborn, Roy T. (See Cornner, A. F., and King, assignors.)
- Osborn, Warren M., Chicago, Ill. Roadbed. 1,735,296; Nov. 12.
- Osborne, David H., assignor to Locke Insulator Corporation, Baltimore, Md. Making forged insulator caps. 1,712,900; May 14.
- Osborne, David H., Jeffersonville, assignor, by mesne assignments, to Electric Service Supplies Company, Philadelphia, Pa. Apparatus for finishing insulator shells. 1,732,339; Oct. 22.
- Osborne, Fred, Birmingham, Ala., assignor to Semet-Solvay Company, New York, N. Y. Recovery of ammonia. 1,703,405; Feb. 26.
- Osborne, Guy E., Chauncey, Ohio. Photographic-exposure meter. 1,697,928; Jan. 8.
- Osborne, Harry P., C. C. Farmer, and R. B. Teeter, Tacoma, Wash., assignors of one-half to A. A. Crane, Washington. Separating paramagnetic ores from their diamagnetic contents. 1,729,008; Sept. 24.
- Osborne, Heinrich, Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Regenerative braking system. 1,726,276; Aug. 27.
- Osborne, Helen J., Lexington, Ky., and H. R. L. White, Maywood, Ill.; said White assignor to said Osborne. Disinfecting water-closet seats. 1,706,409; Mar. 26.
- Osborne, John, assignor to The Utah Radio Products Company, Salt Lake City, Utah. Electromagnet coil bobbin and core. 1,719,192; July 2.
- Osborne, John W., Alsey, Ill. Machine for mixing road material. 1,741,035; Dec. 24.
- Osborne, Lonnie E., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Locomotive. 1,718,065; June 18.
- Osborne, Louis J., Contra Costa County, Calif. Cotter-pin extractor. 1,701,052; Feb. 5.
- Osborne, Nelson R., assignor to The Foundation Company, New York, N. Y. Pile construction and apparatus. 1,700,949; Feb. 5.
- Osborne, Patrick H., Huntington Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Liquid sampler for tanks. 1,739,731; Dec. 17.
- Osborne Process, Inc. (See Osborne, William L., assignor.)
- Osborne, Ralph H., et al. (See Coffman, Samuel M., assignor.)
- Osborne, Ralph W., Toronto, Ontario, Canada. Radio frequency transformer. 1,719,995; July 9.
- Osborne, Raymond S., Wyoming, Ohio. Lubricator. 1,721,231; July 16.
- Osborne, William B., Los Angeles, Calif. Toy. 1,709,627; Apr. 16.
- Osborne, William L., assignor to Osborne Process, Inc., Los Angeles, Calif. Apparatus for cleaning lubricant cases of engines. 1,702,702; Feb. 19.
- Osborne, William L., assignor to Osborne Process, Inc., Los Angeles, Calif. Apparatus for cleaning lubricant cases of engines. 1,702,703; Feb. 19.
- Osborne, William V., Racine, Wis. Brake-operating mechanism. 1,709,092; Apr. 16.
- Osburn, Wallace N., Detroit, Mich., assignor to Gemmer Manufacturing Company. Worm-gear adjustment for motor-vehicle steering gears. 1,706,809; Mar. 26.
- Oser, Alfred, Vienna, Austria. Manifold apparatus. 1,728,133; Sept. 10.
- Osgood, Austin H., Auburn, Wash. Heat-controlling apparatus. 1,703,357; Feb. 26.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,704,667; Mar. 5.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,704,671; Mar. 5.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,704,673; Mar. 5.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,708,188; Apr. 9.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,709,440; Apr. 16.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,718,430; June 25.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,718,873; June 25.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,729,798; Oct. 1.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,740,701; Dec. 24.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,740,703; Dec. 24.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,740,706; Dec. 24.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Forging machine. 1,740,708; Dec. 24.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,741,130; Dec. 24.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,741,132; Dec. 24.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,741,133; Dec. 24.
- Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,742,180; Dec. 31.
- Osgood, George H., Tacoma, Wash. Waterproofing vegetable protein-base glue. 1,706,674; Mar. 26.
- Osgood, George H., Tacoma, Wash. Apparatus for making plywood. 1,706,675; Mar. 26.



- Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Haulage mechanism. 1,740,702; Dec. 24.
- Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanisms. 1,740,704; Dec. 24.
- Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 1,740,705; Dec. 24.
- Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Corporation. Hoist. 1,740,707; Dec. 24.
- Oshkosh Automotive Products Company. (See Rodefied, William H. and E. F., assignors.)
- Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
- Osiek, Edward A., St. Charles, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in manufacturing shoes. 1,702,362; Feb. 19.
- Osinga, Thomas J., Chicago, Ill. Elevator-door hanger. 1,709,279; Apr. 16.
- Oskamp, Anton, Bochum, Germany. Device for bending rails, pipes, and the like. 1,707,991; Apr. 9.
- Oslund, Charles H. (See Johnson, J. E., and Oslund.)
- Oslund, Charles H., and J. E. Johnson, assignors to The O & J Machine Company, Worcester, Mass. Crowning machine. 1,698,963; Jan. 15.
- Osno, Mendel. (See von Arco, G. G., and Osno.)
- Osno, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Keying choker. 1,730,160; Oct. 1.
- Osno, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Controlling means on current conductors for high-frequency purposes. 1,737,169; Nov. 26.
- Osno, Mendel, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Thermionic tube. 1,738,390; Dec. 3.
- Osolin, Alfred. (See Hopkins, J. C., and Osolin.)
- Osswald, Eugen, assignor of one-half to E. Bockorny, Stuttgart, Germany. Hose clamp. 1,707,136; Mar. 26.
- Osswald, Philipp, Orheim-on-the-Taunus, and K. Schad, Höchst-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Separating solid salts of ammonium and of the alkalies or alkaline earths. 1,733,272; Oct. 29.
- Ost, Frederick A., Coffeyville, Kans. Pot-draining device for glass-blowing machines. 1,698,000; Jan. 8.
- Ost, John A., Los Angeles, Calif. Device for forming multi-colored, braidlike decorations. 1,709,280; Apr. 16.
- Ost, John A., Los Angeles, Calif. Device for forming braidlike decorations. 1,714,234; May 21.
- Ostby, Arne B., Minneapolis, Minn. Toy vehicle. 1,734,775; Nov. 5.
- Ostdiek, Clarence J. (See Ostdiek, Herman J. and C. J.)
- Ostdiek, Herman J. and C. J., Minneapolis, Minn. Copyholder. 1,709,188; Apr. 16.
- Ostdiek, Herman J., Minneapolis, Minn., and M. E. Hanke, Oshkosh, Wis. Mop. 1,736,798; Nov. 26.
- Osten, Joseph W., Chicago, Ill., assignor to Auto Fabrics Products, Inc. Automobile winter inclosure and handle. 1,734,339; Nov. 5.
- Oster Manufacturing Company, The. (See Hyde, Ralph E., assignor.)
- Östergötlands Enskilda Bank. (See Ekström, G. C., and Johnson, assignors.)
- Osterheld, Clark M., Stoughton, Wis. Automatic switch-operating mechanism. 1,704,627; Mar. 5.
- Osterhout, Elizabeth K., administratrix. (See Osterhout, John V.)
- Osterhout, John V., deceased, Bridgeport, Conn.; E. K. Osterhout, administratrix. Internal-combustion engine. 1,733,975; Oct. 29.
- Osterlund, Arthur H., St. Paul, Minn. Antifreezing composition. 1,711,324; Apr. 30.
- Ostermann, Albert H., assignor to Fried-Ostermann Co., Milwaukee, Wis. Garment. 1,736,790; Nov. 26.
- Ostermann, Walter, Barmen-Langerfeld, Germany, assignor, by mesne assignments, to Industrial Spray Drying Corporation, New York, N. Y. Communiting solid substances. 1,718,184; June 18.
- Ostertag, Julius, Stuttgart, Germany. Removing easily-soluble salts from boiler feed water. 1,700,714; Jan. 29.
- Ostertag, Julius, Stuttgart, Germany. Purification system for boilers. 1,700,715; Jan. 29.
- Ostertag, Julius, Stuttgart, Germany. Clearing and purifying water for steam boilers of all kinds. 1,700,716; Jan. 29.
- Osthoff, Walter, Barmen, Germany. Process and apparatus for singeing textile goods. 1,726,678; Sept. 3.
- Ostler, Ernest S. (See Denniston, A. L., and Ostler.)
- Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,711,744; May 7.
- Ostline, John E., Liverpool, England, assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,718,914; June 25.
- Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,718,976; July 2.
- Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,720,343; July 9.
- Ostline, John E., Liverpool, England, assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,724,142; Aug. 13.
- Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,726,759; Sept. 3.
- Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,729,851; Oct. 1.
- Ostline, John E., Liverpool, and T. M. Edmunds, Kings Lynn, England, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,722,539; July 30.
- Ostrander, Allen E., Bronxville, N. Y., and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Articulated car. 1,727,667; Sept. 10.
- Ostrander, Allen E., Bronxville, assignor to American Car and Foundry Motors Company, New York, N. Y. Periscope. 1,727,727; Sept. 10.
- Ostrander, Harold W., Greenwich, assignor to M. D. Knowlton Company, Rochester, N. Y. Machine for cutting tubes and similar articles. 1,709,369; Apr. 16.
- Ostrander, William H., and G. E. White, San Diego, Calif. Card-delivery case. 1,734,644; Nov. 5.
- Ostromislensky, Iwan, New York, N. Y. Polymer of vinyl chloride and making the same. 1,721,034; July 16.
- Ostromislensky, Iwan, assignor, by mesne assignments, to The Pyridium Corporation, New York, N. Y. Aryl-azo-diaminopyridines useful as bactericides and making the same. Re17,281; Apr. 23.
- Ostromislensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Producing purified styrol. 1,703,950; Mar. 5.
- Ostromislensky, Iwan, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Obtaining colored polymerized styrol and its homologues and products obtained thereby. 1,705,264; Mar. 12.
- Ostromislensky, Iwan, assignor to The Pyridium Corporation, New York, N. Y. Obtaining pyridium. 1,724,305; Aug. 13.
- O'Sullivan, David L., New York, N. Y. Vest-pocket hypodermic-syringe container. 1,718,701; June 25.
- O'Sullivan, Hugh J., assignor of one-half to H. J. Bensinger, Los Angeles, Calif. Vulcanizing device. 1,718,485; June 25.
- O'Sullivan, Otho, deceased, Willimantic, Conn.; M. E. Sullivan, administrator, assignor to M. A. Noonan, New York, N. Y. Thread guide for spinning machines. Re17,459; Oct. 15.
- Oswald, Gösta, Stockholm, Sweden, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Dust disinfectant. 1,738,197; Dec. 3.
- Oswald, Alfred E., Hackensack, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Electric motor. 1,700,329; Jan. 29.
- Oswald, Alfred E., Bogota, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Electric motor. 1,713,617; May 21.
- Oswald, André, Paris, France, assignor to La Societe du Film en Couleurs Keller-Dorian. Tool for engraving rollers applicable for the treatment of photographic films. 1,730,942; Oct. 8.
- Oswald, Arthur A. (See Nelson, E. L., and Oswald.)
- Oswald, Arthur A., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage-limiting device. 1,705,993; Mar. 19.
- Oswald, Arthur A., and E. L. Nelson, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. System of space discharge devices. 1,698,558; Jan. 8.
- Oswald, Leopold, assignor to the firm J. T. R. Geigy S. A., Basel, Switzerland. Manufacture of azo-dyestuffs. 1,709,734; Apr. 16.
- Oswego Falls Corporation. (See Bremmerman, William H., assignor.)
- Oswego Falls Corporation. (See Wright, Wilbur L., assignor.)
- Oswego Falls Corporation. (See Wright, W. L., and Bond, assignor.)
- Otake Fabric Company, The. (See Lorenz, William A., assignor.)
- Otallah, Gustandy, Detroit, Mich. Shoe protector. 1,727,728; Sept. 10.
- Other, William F., St. Louis, Mo. Skylight structure. 1,720,686; July 16.
- Othick, William H., Kansas City, Mo. Roof jack. 1,722,762; July 30.
- Otis, Albert N. (See Ipsen, C. L., and Otis.)
- Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Singeing apparatus. 1,701,333; Feb. 5.
- Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Protective means for electric furnaces. 1,708,772; Apr. 9.
- Otis, Albert N., and G. W. Hegel, Schenectady, N. Y., assignors to General Electric Company. Electric furnace. 1,738,446; Dec. 3.
- Otis Company. (See De Lancy, Imogene, assignor.)
- Otis Elevator Company. (See Boedtker, Franz A., assignor.)
- Otis Elevator Company. (See Boyce, J. E., and Howell, assignors.)
- Otis Elevator Company. (See Brady, Thomas, assignor.)
- Otis Elevator Company. (See Bruns, William, assignor.)
- Otis Elevator Company. (See Campbell, Chester C., assignor.)



- Otis Elevator Company. (See Hymans, Frederick, assignor.)
- Otis Elevator Company. (See Larson, D. C., Lautrup, and Waite, assignors.)
- Otis Elevator Company. (See Lautrup, G. W., and Crabbe, assignors.)
- Otis Elevator Company. (See Lewis, Jacob D., assignor.)
- Otis Elevator Company. (See Lindquist, David L., assignor.)
- Otis Elevator Company. (See Lindquist, D. L., and Lautrup, assignors.)
- Otis Elevator Company. (See Lindquist, D. L., Dunn, and Larson, assignors.)
- Otis Elevator Company. (See Lucas, William B., assignor.)
- Otis Elevator Company. (See Margles, S. G., and Handy, assignors.)
- Otis Elevator Company. (See Schwab, Martin C., assignor.)
- Otis Elevator Company. (See Simmons, T. H. J. and C., assignors.)
- Otis Elevator Company. (See Waite, R. A., and Lautrup, assignors.)
- Otis Elevator Company. (See Waite, R. A., and Morris, assignors.)
- Otis Elevator Company. (See Westlin, Carl T., assignor.)
- Otis, Gerald E., and W. Shurtleff, assignors to The Herman Nelson Corporation, Moline, Ill. Radiator for heating purposes. 1,707,564; Apr. 2.
- Otis, Howard W., North Weymouth, Mass. Spring roller. 1,730,379; Oct. 8.
- Otis, Spencer, Barrington, assignor to The Locomotive Terminal Improvement Company, Chicago, Ill. Locomotive terminal with steaming equipment. 1,709,228; Apr. 16.
- Otis, Spencer, Barrington, assignor to The Locomotive Terminal Improvement Company, Chicago, Ill. Renovating locomotives. 1,733,624; Oct. 29.
- Otis, Spencer, Barrington, and E. S. Wichman, Highland Park, assignors to National Boiler Washing Company, Chicago, Ill. Single-tank boiler washing and filling apparatus. 1,713,298; May 14.
- O'Toole, Edward, Gary, W. Va. Roof support. 1,735,974; Nov. 19.
- O'Toole, Edward, Gary, W. Va. Mining machine. 1,737,327; Nov. 26.
- O'Toole, James E., Utica, N. Y. Battery-terminal spreader and lifter. 1,708,848; Apr. 9.
- Ott, Charles W., Pittsburg, Kans. Power lawn mower. 1,724,409; Aug. 13.
- Ott, Conrad L., assignor to The Landis Tool Co., Waynesboro, Pa. Wheel-truing fixture. 1,734,914; Nov. 5.
- Ott, Edward F., Buffalo, N. Y. Fire box for furnaces. 1,702,482; Feb. 19.
- Ott, Fred W., New Haven, Conn. Power mechanism. 1,713,549; May 21.
- Ott, Fred W., New Haven, Conn. Power mechanism. 1,737,768; Dec. 3.
- Ott, Harvey N., assignor to Spencer Lens Co., Buffalo, N. Y. Projection apparatus. 1,706,897; Mar. 26.
- Ott, John E. (See MacChesney, C. M., and Ott.)
- Ott, John E., assignor to Acme Steel Company, Chicago, Ill. Box-strip seal. 1,738,921; Dec. 10.
- Otte, Claus, Anaheim, Calif. Rope cinch. 1,713,238; May 14.
- Otte, Otto M., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Rolling disks and rolling mill therefor. 1,708,321; Apr. 9.
- Otte, Otto M., Tarentum, assignor to Allegheny Steel Company, Brackenridge, Pa. Mill for hot rolling radially-tapered disks. 1,708,800; Apr. 9.
- Otterbein, John A., assignor to The Kirby Manufacturing Company, Middletown, Conn. Toy. 1,742,153; Dec. 31.
- Offerness, Thorsten, Fergus Falls, Minn. Signaling device. 1,733,819; Oct. 29.
- Offenstrom, Albert E., and F. Landin, Kasota, Minn. Eraser-cleaning apparatus. 1,718,180; June 18.
- Ottinger, Leon, New York, N. Y. Handle-attaching means for door latches. 1,710,509; Apr. 23.
- Ottinger, Leon, New York, N. Y. Wrench for latch-handle fasteners. 1,710,510; Apr. 23.
- Ottinger, Leon, New York, N. Y. Latch strike. 1,715,671; June 4.
- Ottinger, Leon, New York, N. Y. Latch strike. 1,715,672; June 4.
- Ottinger, Leon, New York, N. Y. Attaching escutcheon members. 1,726,582; Sept. 3.
- Otto, Albert, assignor to Morgan and Wright, Detroit, Mich. Pressure equalizer. 1,705,265; Mar. 12.
- Otto, Arthur L., Philadelphia, Pa., assignor to Orange Screen Company, Maplewood, N. J. Metallic screen. 1,698,064; Jan. 8.
- Otto, Arthur L., Philadelphia, Pa., assignor to Orange Screen Company, Maplewood, N. J. Metallic screen. 1,698,065; Jan. 8.
- Otto, Carl, Essen-on-the-Ruhr, Germany. Coke oven. 1,698,272; Jan. 8.
- Otto, Carl, Hellerup, Denmark. Regenerative coke oven. 1,707,537; Apr. 2.
- Otto, Carl, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc. Combination radio and phonograph cabinet. Des. 77,976; Mar. 12.
- Otto, Carl, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 77,977; Mar. 12.
- Otto, Carl, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc. Phonograph cabinet. Des. 77,978; Mar. 12.
- Otto, Carl A., assignor to Johnson Service Company, Milwaukee, Wis. Reversed acting intermediate relay. 1,726,409; Aug. 27.
- Otto, Carl A., assignor to Johnson Service Company, Milwaukee, Wis. Automatic control device. 1,742,091; Dec. 31.
- Otto, Harry A., Pittsburgh, assignor to J. M. Hopwood, Dormont, Pa. Regulating feed water for boilers. 1,707,639; Apr. 2.
- Otto, Helmuth R., Santa Paula, Calif. Gasoline condenser, stabilizer, fractionator, and dehydrator. 1,728,440; Sept. 17.
- Otto, Henry J., assignor of one-half to C. W. Halsey, Evansville, Ind. Flasher or magnetic actuator for switches and the like. 1,710,945; Apr. 30.
- Otto, Miller W., assignor to Larimer Company, Aurora, Ill. Automatic door closer. 1,705,334; Mar. 12.
- Otto, Miller W., assignor to The Larimer Company, Aurora, Ill. Automatic door closer. 1,714,887; May 28.
- Otto, Norman A., Oshkosh, Wis. Schoolhouse box. 1,698,731; Jan. 15.
- Otto, Stuart, Wilton, Conn., and L. Bruehl, Brooklyn, N. Y., assignors to Gas Refrigeration Corporation, Scranton, Pa. Automatic control of absorption refrigerating apparatus. 1,725,205; Aug. 20.
- Otto, Theodor. (See Teupel, Ernst, assignor.)
- Otto, Theodore J., Oakland, Calif. Bathtub carrier. 1,721,745; July 23.
- Otto, William, Leisnig, Germany. Card cloth having a felt layer. 1,731,143; Oct. 8.
- Otto, Wolfgang, Neumuhlen, near Kiel, Germany, assignor to Nederlandsche Technische Handel Maatschappij "Giro," Gravenhage, Netherlands. Indicating means for compass cards. 1,711,124; Apr. 30.
- Ottomansky, Josef. (See Bergmann, K., and Ottomansky.)
- Ottosen, August A., Sacramento, Calif. Combination saw, try-square, and miter square. 1,703,429; Feb. 26.
- Ottow, Henry W., Watertown, S. Dak. Can opener. 1,739,413; Dec. 10.
- Ottumwa Iron Works. (See Bockau, Gustav, assignor.)
- Ottumwa Iron Works. (See Mead, Ezra B., assignor.)
- Ottwell, Ralph B., Bedford, Mich. Combined motor-generator starting unit for tractors. 1,726,760; Sept. 3.
- Ottwell, Ralph B., assignor to Detroit Harvester Company, Detroit, Mich. Traction apparatus for agricultural implements. 1,705,307; Mar. 12.
- Ougheltree, Frank S. (See Lamb, H. W., and Ougheltree.)
- Outdoor Motors Corporation. (See Evinrude, Ole, assignor.)
- Outdoor Motors Corporation. (See King, D. W., and Irgens, assignors.)
- Outdoor Motors Corporation. (See King, D. W., and Lockwood, assignors.)
- Outdoor Motors Corporation. (See Schreil, August, assignor.)
- Outdoor Motors Corporation. (See Schriel, A., and Hillborn, assignors.)
- Outlook Manufacturing Company, The. (See Lippert, Samuel, assignor.)
- Outrey, Fernand, assignor to Pathé-Cinéma, Anciens Etablissements Pathé Frères, Paris, France. Automatic optical projection apparatus. 1,696,968; Jan. 1.
- Outside Arch, Inc. (See Smith, James A., assignor.)
- Ove, Edward N., Dike, Iowa. Rivet holder. 1,737,266; Nov. 26.
- Oven, Frank J., Chicago, Ill., assignor to Victor Mfg. & Gasket Co. Metallic packing. 1,740,780; Dec. 24.
- Over, William E., assignor to Havana Manufacturing Co., Havana, Ill. Clutch. 1,721,500; July 16.
- Overaker, George, La Fayette, Ind. Wringing apparatus. 1,700,071; Jan. 22.
- Overall, Albert R. (See McWilliams, T. A., Parman, and Overall.)
- Overbury, Arthur E. (See Kittle, Charles R., assignor.)
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Strip roofing unit and process of manufacture. 1,698,891; Jan. 15.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Treating roofing material. 1,704,058; Mar. 5.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Roof. 1,705,497; Mar. 19.
- Overholt, Albert L., Minneapolis, Minn., assignor, by mesne assignments, to Steiner Sales Company, Salt Lake City, Utah. Measuring and stopping device for towel cabinets. 1,719,275; July 2.
- Overholt, Edwin E. (See Overholt, William H. and E. E.)
- Overholt, John W., West Allis, Wis. Revolving-field-induction toy and novelty. 1,731,057; Oct. 8.
- Overholt, William H., Bluefield, W. Va., and E. E. Overholt, Washington, D. C.; said William H. Overholt as assignor to said E. E. Overholt. Potato hiller or ridger. 1,715,616; June 4.
- Overlin, William S. (See White, N., Overlin, and Bulington.)
- Overly, Clarence B. (See Blaskewitz, W., Overly, Lamberg, and Ironside.)
- Overly, Clarence B., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Starting and generating apparatus for liquid-fuel burners. 1,730,589; Oct. 8.



- Overman Cushion Tire Company Inc. (See Overman, Max C., assignor.)
- Overman, George W. P., Norfolk, Va. Lifeboat-releasing device. 1,742,092; Dec. 31.
- Overman, Max C., New York, N. Y., assignor to Overman Cushion Tire Company Inc. Cushion tire. 1,723,435; Aug. 6.
- Overmire, Charles A., assignor to the Western Gold & Platinum Works, San Francisco, Calif. High-temperature casting investment. 1,719,276; July 2.
- Overmyer, Clyde H., Hartford City, Ind. Glass-knob-securing device. 1,708,735; Apr. 9.
- Oversewing Machine Company. (See Davis, John A., assignor.)
- Oversmith, Ralph E., Kenmore, assignor to Consolidated Aircraft Corporation, Buffalo, N. Y. Attachment. 1,710,837; Apr. 30.
- Overstall, Joseph L. (See Sedgwick, Charles H., assignor.)
- Overstall, Joseph L., El Cerrito, and H. Sedgwick, Berkeley, Calif. Insulator. 1,705,584; Mar. 19.
- Overstrom, Gustave A., Pasadena, Calif. Vibrating screen. 1,713,143; May 14.
- Overstrom, Gustave A., Pasadena, Calif. Screen. 1,713,144; May 14.
- Overton, Brodie C., St. Louis, Mo. Vending and display rack. 1,741,732; Dec. 31.
- Overton, Glen, Allegan, Mich. Roll for milk-drying machines and making. 1,718,977; July 2.
- Overton, Ray E., Omaha, Nebr. Fish stringer. 1,713,779; May 21.
- Overton, Samuel E., South Haven, Mich. Piano bench. 1,734,340; Nov. 5.
- Overton, Vaidy C., Houston, Tex. Stringed musical instrument. 1,707,192; Mar. 26.
- Overton, Warner L. (See Parker, R. D., and Overton.)
- Overton, Warner L., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electric picture-transmitting apparatus. 1,713,618; May 21.
- Ovestrud, Melvin, assignor of one-half to Twin City Forge & Foundry Company, Stillwater, Minn. Bending press for tie-plate flanges. 1,735,785; Nov. 12.
- Ovtschinnikoff, Alexander, Arnstadt, Germany. Multiple-card match package. 1,740,476; Dec. 24.
- Owatonna Tool Co. (See Kaplan, Reuben A., assignor.)
- Owe, Aage W., Oslo, Norway. Producing vitamine preparations. 1,715,945; June 4.
- Owen, Alfred E., and R. W. Downs, Darlaston, England. Manufacture of vehicle wheels. 1,700,072; Jan. 22.
- Owen, Alfred E., and R. W. Downs, Darlaston, England. Vehicle wheel. 1,722,855; July 30.
- Owen, Alfred E., Sutton-Coldfield, and A. C. Scott, Codsall, near Wolverhampton, England. Preparing tubes for rear-axle casings. 1,736,748; Nov. 19.
- Owen, Allen F., Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Preparing waterproofing compositions and products. Re17,541; Dec. 31.
- Owen Automatic Spring Machinery Company, The. (See Lehmann, W. G., and Owen, assignors.)
- Owen, Brynar J., Oxford, assignor to Sugar Beet and Crop Driers Limited, London, England. Dehydrating vegetable substances of organic character. 1,713,619; May 21.
- Owen, Charles W., et al. (See Kadow, August, assignor.)
- Owen, David T. (See Lehmann, W. G., and Owen.)
- Owen, Edward E., Cape Girardeau, Mo. Anchor. 1,705,335; Mar. 12.
- Owen, Frederick E., East Palestine, Ohio. Tube-perforating device. 1,705,093; Mar. 12.
- Owen, Frederick E., East Palestine, Ohio. Refractory resistor-supporting plate. 1,705,094; Mar. 12.
- Owen, George B., Brooklyn, N. Y. Waste receiver for vacuum-cleaner bags. 1,709,537; Apr. 16.
- Owen, George B., Brooklyn, N. Y. Waste receiver for vacuum cleaners. 1,715,861; June 4.
- Owen, Ira J., assignor, by mesne assignments, to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet sweeper with brush-cleaning device. 1,706,039; Mar. 19.
- Owen, Ira J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Dust-bag closure for vacuum cleaners. 1,713,349; May 14.
- Owen, Ira J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweeper. 1,741,163; Dec. 31.
- Owen, Jack M., Long Beach, Calif. Concrete mixer. 1,724,850; Aug. 13.
- Owen, James A., Marne, Mich. Ironing board. 1,725,099; Aug. 20.
- Owen, Lloyd G. (See Miracle, Forest H., assignor.)
- Owen, Morris, Oak Park, Ill. Combustion apparatus. 1,699,443; Jan. 15.
- Owen, Morris, Oak Park, Ill. Boiler-door air flue. 1,733,901; Oct. 29.
- Owen, Raymond V., assignor to The Edwin F. Guth Company, St. Louis, Mo. Housing for lighting-fixture supports. 1,714,518; May 28.
- Owen, Turner A., Long Beach, Calif. Sand tester. 1,711,125; Apr. 30.
- Owen, Ward B., Nathalie, Va. Tobacco planter. 1,711,612; May 7.
- Owen, Wilbur, et al. (See Kadow, August, assignor.)
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Surfacing machine. 1,702,521; Feb. 19.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for trimming glass sheets. 1,702,522; Feb. 19.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for severing sheets. 1,710,238; Apr. 23.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Portable mitring machine. 1,716,279; June 4.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-pot-filling apparatus. 1,716,280; June 4.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for making plate glass. 1,720,745; July 16.
- Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Edge-rounding machine. 1,724,677; Aug. 13.
- Owen, William A., Akron, Ohio. Composite heel. 1,710,378; Apr. 23.
- Owen, William D., Pomona, Calif. Cigarette package. 1,713,765; May 21.
- Owen, William H., assignor of one-fourth to W. Groat, Idalou, and one-fourth to J. W. Huff, Lubbock County, Tex. Nonsinkable hull for vessels. 1,729,120; Sept. 24.
- Owen, William L., New Orleans, La. Roller-shade hanger. 1,703,951; Mar. 5.
- Owens Bottle Company, The. (See Cramer, Albert N., assignor.)
- Owens Bottle Company, The. (See Flint, Opha H., assignor.)
- Owens Bottle Company, The. (See La France, Richard, assignor.)
- Owens Bottle Company, The. (See Lents, J. M., and Miller, assignors.)
- Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)
- Owens Bottle Company, The. (See Williams, Percy Q., assignor.)
- Owens, Charles R., Washington, D. C. Filtering funnel. 1,739,559; Dec. 17.
- Owens, Edward A., assignor to Selectasine System, Inc., San Francisco, Calif. Preparing masking films and applying them to printing stencils. 1,706,038; Mar. 19.
- Owens, Freeman H., New York, N. Y. Motion-picture apparatus. 1,698,105; Jan. 8.
- Owens, Freeman H., New York, N. Y. Motion-picture apparatus. 1,698,106; Jan. 8.
- Owens, Freeman H., New York, N. Y. Camera. 1,720,744; July 16.
- Owens, Freeman H., New York, N. Y. Sound and motion-picture reproducing system. 1,723,426; Aug. 6.
- Owens, Freeman H., New York, N. Y. Apparatus for grinding film sprockets. 1,728,441; Sept. 17.
- Owens, Freeman H., New York, N. Y. Adjustable lamp holder. 1,735,354; Nov. 12.
- Owens, Freeman H., New York, N. Y. Talking-picture apparatus. 1,735,335; Nov. 12.
- Owens-Illinois Glass Company. (See Cramer, Albert N., assignor.)
- Owens-Illinois Glass Company. (See La France, Richard, assignor.)
- Owens-Illinois Glass Company. (See Schwenzfeier, Carl W., assignor.)
- Owens-Illinois Glass Company. (See Soubier, Leonard D., assignor.)
- Owens, James C., and E. Wofford, Southmont, N. C. Sash construction. 1,740,622; Dec. 24.
- Owens, Jesse C., Los Angeles, Calif. Toilet-tank flush valve. 1,728,625; Sept. 17.
- Owens, John, Chicago, Ill. Lubricating device. 1,723,437; Aug. 6.
- Owens, John H., Elgin, Ill. Pipe cleaner. 1,732,277; Oct. 22.
- Owens, Major P., Greenville, S. C. Adjustable loom bearing. 1,721,637; July 23.
- Owens, Peter J., San Francisco, and G. B. Maloney, Fresno, Calif. Pavement resurfacer. 1,702,546; Feb. 19.
- Owens, William F., Seattle, Wash. Trip-hook sling. 1,720,054; July 9.
- Owl Fumigating Corporation. (See Eastman, Hal P., assignor.)
- Owston, Charles W., Detroit, Mich. Machine for making spiral fin tubing. 1,732,415; Oct. 22.
- Oxenhandler, Morris, Brooklyn, N. Y. Rotary die press. 1,706,319; Mar. 19.
- Oxford, John T., assignor of one-half to W. T. Beery, Morgantown, N. C. Check valve. 1,271,353; July 16.
- Oxford Varnish Corporation. (See Casto, Lloyd V., assignor.)
- Oxford Varnish Corporation. (See Golrick, Albert R., assignor.)
- Oxford Varnish Corporation. (See von Webern, Guido, assignor.)
- Oxhandler, Leopold, Chicago, Ill. Cushioned flat for cellular fillers. 1,701,632; Feb. 12.
- Oxley, Arthur E., Didsbury, Manchester, assignor of one-half to The British Cotton Industry Research Association, Didsbury, and one-half to Platt Brothers and Company Limited, Oldham, England. Revolving-flat carding engine. 1,703,353; Feb. 26.
- Oxwold Acetylene Company. (See Miller, Wilber B., assignor.)
- Oxwold Railroad Service Company. (See Ryan, Leo C., assignor.)



- Oya, John A., Honolulu, Hawaii. Automobile light indicator. 1,713,051; May 14.
- Oye, Ida S. J., White Plains, N. Y. Spray apparatus for treating foot ailments. 1,715,043; May 28.
- Oyen, Edwin J., Buffalo, N. Y. Hanger for clotheslines and the like. 1,720,493; July 9.
- P. and F. Engineering Syndicate Limited. (See Pitt, Gordon, assignor.)
- P. I. V. Chain Gears Limited. (See Abbott, Geoffrey J., assignor.)
- P. L. & M. Company. (See Davies, Richard D., assignor.)
- P & M Company, The. (See Warr, Harold G., assignor.)
- P. & R. Tool Company. (See Lester, Nathan, assignor.)
- P-W Device Corporation. (See Bartel, Englebert A., assignor.)
- Paasche, Jens A., Wilmette, Ill. Air brush and the like. 1,703,359; Feb. 26.
- Paasche, Jens A., Wilmette, Ill. Air cleaner and separator. 1,706,676; Mar. 26.
- Pabich, Walter. (See Richardson, G. L., and Pabich.)
- Pabst, Otto, and C. F. Seibert, Hamilton, Ohio, assignors to Niles-Bement-Pond Company, New York, N. Y. Hydrostatic press. 1,714,043; May 21.
- Pace, Vincent, Brooklyn, N. Y. Stretching and forming device. 1,718,066; June 18.
- Pacent Electric Company. (See Goudy, Carl F., assignor.)
- Pacent Electric Co. (See Pacent, L. G., and Goudy, assignors.)
- Pacent, Louis G., Winfield, and C. F. Goudy, Flushing, assignors to Pacent Electric Co., Inc., New York, N. Y. Variable air condenser. 1,705,734; Mar. 19.
- Pacent Radio Corporation. (See Goudy, Carl F., assignor.)
- Pacific Abrasive Supply Company. (See Morin, William T., assignor.)
- Pacific Burt Company. (See Templeton, Robert P., assignor.)
- Pacific Car and Foundry Company. (See Chriswell, Frederick W., assignor.)
- Pacific Car and Foundry Company. (See Langdon, Robert S., assignor.)
- Pacific Flush Tank Company. (See Beddoes, Hubert, assignor.)
- Pacific Flush-Tank Company. (See Downes, John R., assignor.)
- Pacific Grape Products Company. (See Triplett, Stanley F., assignor.)
- Pacific R & H Chemical Corporation, The. (See Brown, Mortimer J., assignor.)
- Pacific Radiator. (See Martland, Robert W., jr., assignor.)
- Pacific Safety Equipment Company. (See Bullard, Edward W., assignor.)
- Pacific-Southwest Trust & Savings Bank, trustee. (See Curtis, Thomas S., assignor.)
- Pacific Spring Hinge Company. (See Campbell, A. T., and Heinemann, assignors.)
- Pack Shops, Inc. (See Manning, Landon C., assignor.)
- Pack, Wehrli D., Salt Lake City, Utah, assignor to Utah Radio Products Company, Incorporated. Sound-regenerating device. 1,698,374; Jan. 8.
- Pack, Wehrli D., Salt Lake City, Utah, assignor to Utah Radio Products Company, Incorporated. Vibratory unit. 1,735,874; Nov. 19.
- Pack, Wehrli D., Salt Lake City, Utah, assignor to Utah Radio Products Company, Incorporated. Vibratory unit. 1,735,875; Nov. 19.
- Pack, Wehrli D., and J. M. S. King, Salt Lake City, Utah, assignors to Utah Radio Products Company, Incorporated. Sound-reproducing device. 1,735,873; Nov. 19.
- Pack, Wehrli D., Chicago, Ill. Transmitter. 1,724,360; Aug. 13.
- Package Machinery Company. (See Smith, Elmer L., assignor.)
- Package Machinery Company. (See Smith, E. L., and Fuller, assignors.)
- Package Machinery Company. (See Smith, E. L., and Paynter, assignors.)
- Package Machinery Company. (See Smith, E. L., and Phelon, assignors.)
- Packard, Edwin A., Yonkers, assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler furnace. 1,708,486; Apr. 9.
- Packard, Horace N., Wauwatosa, and E. X. Schmidt, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and apparatus for ascertaining the proportion of constituents of fluids. 1,700,852; Feb. 5.
- Packard Motor Car Company. (See Anibal, Benjamin H., assignor.)
- Packard Motor Car Company. (See Chase, Theron P., assignor.)
- Packard Motor Car Company. (See Church, Harold D., assignor.)
- Packard Motor Car Company. (See Ferguson, James R., assignor.)
- Packard Motor Car Company. (See Gill, Reuben O., assignor.)
- Packard Motor Car Company. (See Griswold, Walter R., assignor.)
- Packard Motor Car Company. (See Gulick, Edward J., assignor.)
- Packard Motor Car Company. (See Jeffries, Carl F., assignor.)
- Packard Motor Car Company. (See Kline, Harmon J., assignor.)
- Packard Motor Car Company. (See Knapp, Archer L., assignor.)
- Packard Motor Car Company. (See Manning, William H., assignor.)
- Packard Motor Car Company. (See McCain, George L., assignor.)
- Packard Motor Car Company. (See McCartan, Edward, assignor.)
- Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
- Packard Motor Car Company. (See Purdy, F., and Bain, assignors.)
- Packard Motor Car Company. (See Reed, Leon H., assignor.)
- Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
- Packard Motor Car Company. (See Vincent, Charles H., assignor.)
- Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
- Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
- Packard, Ralph G., jr., Morristown, N. J. Sighting telescope for rifles. 1,704,059; Mar. 5.
- Packard, Ralph G., jr., Morristown, N. J. Detachable sight for rifles. 1,704,060; Mar. 5.
- Packer, Eben R. (See Laughlin E. A., and Packer.)
- Packer, Eben R., New Rochelle, assignor to Q & C Company, New York, N. Y. Switch-point protector. 1,716,503; June 11.
- Packer, John L., Huyton, assignor to British Insulated Cables Limited, Prescott, England. Lead or like metal sheathed electric cable. 1,732,984; Oct. 22.
- Packer, Sylvan W., Kirk, Colo. Disk moldboard. 1,723,705; Aug. 6.
- Packers Specialty Company. (See Allen, C. H., and Morris, assignors.)
- Packman, Percival J., assignor of one-half to W. Manning, London, England. Musical instrument of the reed type. 1,716,929; June 11.
- Pacy, Ernest, Pittsburgh Pa. Taking up wear in structural members. 1,714,187; May 21.
- Pacz, Aladar, East Cleveland, Ohio. Surface treating aluminum articles. 1,710,743; Apr. 30.
- Pacz, Aladar, East Cleveland, Ohio. Method and composition of matter for coating and coloring metal articles. 1,723,067; Aug. 6.
- Padavic, John, Quincy, Ill. Awning arm. 1,736,936; Nov. 26.
- Padbury, George W., jr., et al. (See Hendricks, Riley, assignor.)
- Paddle, Leslie H. (See Graham, E. A., and Paddle.)
- Pade, Max H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Conveyor. 1,703,829; Feb. 26.
- Pade, Max H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tube-stripping apparatus. 1,707,640; Apr. 2.
- Pade, Max H., and N. H. Myers, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Conveyor. 1,727,313; Sept. 3.
- Pagen City Glass Manufacturing Company. (See Fisher, David, assignor.)
- Paden, William L., assignor to E. C. Peters and J. B. Martin, receivers for American Cash Register Co., Saginaw, Mich. Cash register. 1,703,189; Apr. 9.
- Padesky, John R., assignor to National Gauge & Equipment Company, La Crosse, Wis. Instrument-board panel and lighting construction. 1,712,226; May 7.
- Padgett, Claude S., assignor to I. Brandenburg, Washington, D. C. Steering means. 1,739,856; Dec. 17.
- Padilla, Carlos E., Bogota, Colombia, South America. Lubricator. 1,727,130; Sept. 3.
- Padilla, Concepcion, Los Angeles, Calif. Shingle-bundling machine. 1,716,080; June 4.
- Paech, Paul, Berlin-Steglitz, Germany, assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,705,675; Mar. 19.
- Paffen, Paul J., New York, N. Y., assignor to The Barrett Company. Machine for collecting shingles. 1,701,760; Feb. 12.
- Paffen, Paul J., Newark, N. J., and L. Wittenberg, New Rochelle, N. Y., assignors to The Barrett Company. Air compressor. 1,735,441; Nov. 12.
- Paganello, Nunzio, Brooklyn, N. Y. Mounting for dolls' eyes and the like. 1,737,267; Nov. 26.
- Pagano, Gaetano, Brooklyn, N. Y. Automobile safety fender. 1,710,892; Apr. 30.
- Page, Albert B., Schenectady, N. Y., assignor to General Electric Company. Photo-electric cell. 1,708,773; Apr. 9.
- Page, Albert E. (See Scott, R. W., and Page.)
- Page, Albert E., Brooklyn, assignor to Scott and Williams, Inc., New York, N. Y. Circular-knitting machine. 1,697,081; Jan. 1.
- Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Dial-locking means for knitting machines. 1,697,658; Jan. 1.
- Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Knitting on transferred fabric sections. 1,711,028; Apr. 30.
- Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Stripping attachment for knitting machines. 1,714,400; May 21.
- Page, Albert E., Brooklyn, assignor to Scott & Williams, Incorporated, New York, N. Y. Splicing attachment for knitting machines. 1,726,410; Aug. 27.



- Page, Alexander, M., Portland, Oreg. Sawyer's log mirror. 1,700,511; Jan. 29.
- Page, Arthur A., Racine, Wis. Mechanical pencil eraser. 1,710,067; Apr. 23.
- Page, Charles B., W. D. Burton, Evanston, K. A. Mayr and R. E. White; Page, Burton, and White, assignors of three-fourths to G. W. Dulany, jr., Chicago, Ill. Steam power plant. 1,732,587; Oct. 22.
- Page, Charles E., Los Angeles, Calif., assignor, by mesne assignments, to Crest Corporation. Coffee maker. Re17,399; Aug. 6.
- Page, Charles E., assignor to Crest Corporation, Los Angeles, Calif. Coffee maker. Des. 77,979; Mar. 12.
- Page, Charles L. (See Unger, Wilfred G., assignor.)
- Page, Frank, Vancouver, British Columbia, Canada. Automatic traffic signal. 1,734,228; Nov. 5.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Bomb-dropping and like release gear for releasing suspended bodies and members under tension. 1,725,473; Aug. 20.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Controlling aeroplanes. 1,726,118; Aug. 27.
- Page, George A., jr., Freeport, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Dump valve for fluid containers. 1,737,123; Nov. 26.
- Page, George A., jr., Freeport, and F. H. Russell, Hempstead, N. Y., assignors to Curtiss Aeroplane & Motor Company, Inc. Wire end seal for aircraft. 1,724,959; Aug. 20.
- Page, Grace, Seattle, Wash. Combination pillow and vanity case. 1,707,766; Apr. 2.
- Page, Handley, Limited. (See Page, Frederick H., assignor.)
- Page, Herbert E., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Valve. 1,703,165; Feb. 26.
- Page, Herbert E., Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Steaming device for hats. 1,716,735; June 11.
- Page, John W., Chicago, Ill. Excavating apparatus. 1,724,104; Aug. 18.
- Page, Lovell H., Hamden, Conn. Safety mechanism for bolt-action firearms. 1,707,538; Apr. 2.
- Page, Luther T., Wareham, assignor, by mesne assignments of one-half to R. H. Boutwell and one-half to R. M. Boutwell, Brookline, Mass. Making horseshoes. 1,710,379; Apr. 23.
- Page, Marshall H., San Francisco, Calif., assignor, by mesne assignments, to W. A. Garlick. Card-display-advertising machine. 1,711,029; Apr. 30.
- Page, Robert R., New York, N. Y. String peg. 1,710,802; Apr. 30.
- Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 78,309; Apr. 16.
- Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 78,648; May 28.
- Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 78,649; May 28.
- Page, Samuel H., Stratford, assignor to The American Fabrics Company, Bridgeport, Conn. Lace. Des. 78,650; May 28.
- Page, Sherwood, Melrose, assignor to Hood Rubber Company, Watertown, Mass. Safety plug. 1,717,620; June 18.
- Page Steel & Wire Company. (See Howe, Fred, assignor.)
- Page, Thomas, Shawinigan Falls, Quebec, Canada. Paper rope carrier. 1,740,261; Dec. 17.
- Page, Venus L., Compton, Calif. Signaling apparatus for vehicles. 1,713,052; May 14.
- Pagel, Ernest C. and S. W. Treat, assignors to Consolidated Steel Strapping Company, Chicago, Ill. Package. 1,714,692; May 28.
- Pagel Rotary Pump Manufacturing Company. (See Pagel, Theodore J., assignor.)
- Pagel, Theodore J., assignor to Pagel Rotary Pump Manufacturing Company, Minneapolis, Minn. Rotary fluid pump or motor. 1,737,942; Dec. 3.
- Pages, James, Brooklyn, N. Y. Plastering machine. 1,726,515; Aug. 27.
- Pagin, John B., South Bend, Ind., assignor to The South Bend Bait Company. Finishing baits. 1,698,964; Jan. 15.
- Pahlow, Gustav C., Galesburg, Ill. Casket lug. Des. 79,479; Sept. 24.
- Paidar, Emil J., Company. (See Emmert, John R., assignor.)
- Paidar, Emil J., Co. (See Emmert, J. R., and Grimmich, assignors.)
- Paidar, Emil J., Company. (See Grimmich, William, assignor.)
- Paige, Arthur E., Philadelphia, Pa. Rotary pump. 1,703,204; Feb. 26.
- Paige, Arthur E., Philadelphia, Pa. Vehicle lock and signaling device. 1,704,868; Mar. 12.
- Paige, Arthur E., Philadelphia, Pa. Regulating electric arcs. 1,712,227; May 7.
- Paige, Arthur E., Philadelphia, Pa. Burner-lighting mechanism. 1,725,296; Aug. 20.
- Paige, Arthur E., Philadelphia, Pa. Thermionic vacuum tube. 1,726,363; Aug. 27.
- Paige, Arthur E., Philadelphia, assignor to John Wood Manufacturing Company, Conshohocken, Pa. Water heater. 1,724,885; Aug. 13.
- Pailin, George, Manchester, England. Draw-out-type electric switch gear. 1,709,281; Apr. 16.
- Paine, Arthur P., Worcester, and H. L. Blanchard, Milbury, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing double-fabric loom. 1,711,613; May 7.
- Paine, Arthur P., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tube-frame-supporting chain for Axminster looms. 1,739,169; Dec. 10.
- Paine, Arthur P., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Guide for Axminster-tube-frame supports. 1,739,170; Dec. 10.
- Paine, Arthur P., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Needle motion for Axminster looms. 1,739,171; Dec. 10.
- Paine, Elmer E., Santa Rosa, Calif. Adjustable poster frame. 1,738,793; Dec. 10.
- Paine, Herman, and J. J. Readle, Muncie, Ind. Ventilator device. 1,740,954; Dec. 24.
- Paine, Ingeborg H., Washington, D. C. Doll. Des. 77,430; Jan. 8.
- Paine and Williams Company, The. (See Turner, William S., assignor.)
- Paine and Williams Company, The. (See Vrooman, William S., assignor.)
- Paine, Willis S., Salisbury Cove, Me. Window-blind construction. 1,701,695; Feb. 12.
- Painter, William A., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Wiper for metal-coating machines. 1,740,114; Dec. 17.
- Pairman, Robert C., Berkeley, Calif. Pyrometer. 1,728,626; Sept. 17.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,749; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,750; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,751; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,752; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,753; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,754; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,755; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,756; Oct. 29.
- Paisner, Frieda B., Brooklyn, assignor to Belding Hem-inway Company, New York, N. Y. Textile fabric or similar article. Des. 79,757; Oct. 29.
- Paisseau, Jean, Paris, France. Process and apparatus for production of a substance having a nacreous and chatoyant aspect. 1,700,208; Jan. 29.
- Paisseau, Jean, Paris, France. Manufacture of substances having a decorative effect. 1,737,943; Dec. 3.
- Paisseau, Jean, Paris, France. Varnishing leather and like material. 1,742,146; Dec. 31.
- Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Socket-cap cord connection. 1,703,046; Feb. 19.
- Paiste, Henry T., assignor to H. T. Paiste Company, Philadelphia, Pa. Electric fixture. 1,709,804; Apr. 16.
- Paiste, H. T., Company. (See Paiste, Henry T., assignor.)
- Päivio, Frans R., Raisio, Finland. Interchangeable contact extension. 1,724,771; Aug. 13.
- Pai Radio Company, The. (See Wacker, George W., assignor.)
- Palace Poultry Car Company. (See Edgerton, Israel V., assignor.)
- Páldy, Joseph. (See von Vágó, P., and Páldy.)
- Paley, Philip, Jamaica, N. Y. Tie lining. 1,729,452; Sept. 24.
- Palfy, Alexander. (See Szarka, A., and Palfy.)
- Palfyn, Paul C. (See Graham, W. D., and Palfyn.)
- Pallady, Harry A., Tonkawa, Okla. Coupling. 1,708,736; Apr. 9.
- Pallaria, Domenico, London, Ontario, Canada. Safety attachment for aeroplanes. 1,706,677; Mar. 26.
- Pallenberg, Christian, Clinton, Conn. Resilient seat mount. 1,734,776; Nov. 5.
- Pallenberg, Christian, assignor of one-half to E. Pallenberg, Clinton, Conn. Resilient seat mount. 1,697,082; Jan. 1.
- Pallenberg, Emil. (See Pallenberg, Christian, assignor.)
- Palm, Albert. (See Michael, W., and Palm.)
- Palm, Fechteler & Co. (See Bilton, Louis, assignor.)
- Palm, Hermann, Neukirchen, near Unterkothen, Germany. Mechanism for coloring and etching paper webs and the like and method thereof. 1,702,268; Feb. 19.
- Palm, John V. O., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Alloy and making same. 1,704,208; Mar. 5.



- Palm, John V. O., Cleveland Heights, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bonding dissimilar metals. 1,729,747; Oct. 1.
- Palm, John V. O., Cleveland Heights, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Alloy. 1,741,733; Dec. 31.
- Palm, Max J., Jr., Cincinnati, Ohio. Plate or similar article. Des. 77,980; Mar. 12.
- Palm, Per W., Baudette, Minn. Auxiliary wheel rim. 1,717,732; June 18.
- Palm, Victor H., Butler, Pa. Internal-combustion engine. 1,735,543; Nov. 12.
- Palmberg, John E., Jamaica Plain, Mass. Lamp or analogous article. 79,529; Oct. 1.
- Palmenberg's, J. R., Sons, Inc. (See Crucet, Joseph M., assignor.)
- Palmer, Albert E., San Diego, Calif. Mucilage distributor. 1,705,875; Mar. 19.
- Palmer, Alphonso T., Chicago, Ill. Rail anchor. 1,710,838; Apr. 30.
- Palmer, Alphonso T., Chicago, Ill. Rail anchor. 1,730,624; Oct. 8.
- Palmer-Bee Company. (See McBride, Jesse E., assignor.)
- Palmer, Brian C., New York, N. Y., assignor, by mesne assignments, to Ohmer Fare Register Company, Dayton, Ohio. Driver's tolerance means for taximeters. 1,711,246; Apr. 30.
- Palmer, Byron B. (See Norgaard, Hal W., assignor.)
- Palmer, Charles, assignor to Federal Metal Hose Corporation, Buffalo, N. Y. Coupling for flexible metal hose. 1,699,911; Jan. 22.
- Palmer, Charles G., Newark, N. J. Ice-cream scoop. 1,728,505; Sept. 17.
- Palmer, Charles S., Pittsburgh, Pa. Making by-products from inactive and inert oils or gases. 1,699,627; Jan. 22.
- Palmer, Charles W. (See Ryley, C. F., Palmer, and Welch.)
- Palmer, Charles W., Spondon, near Derby, England, assignor to Celanese Corporation of America, New York, N. Y. Calendaring or ironing of fabrics. 1,732,340; Oct. 22.
- Palmer, Charles W., and W. Whitehead, Spondon, near Derby, England, assignors to Celanese Corporation of America. Process and apparatus for the manufacture of artificial-silk and like threads. 1,731,317; Oct. 15.
- Palmer, Delos M., Toledo, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Temperature-indicating device. 1,728,803; Sept. 17.
- Palmer Electric & Manufacturing Co., The. (See Johansson, Ernest G., assignor.)
- Palmer Electric & Manufacturing Co., The. (See Palmer, Granville E., assignor.)
- Palmer Electric Manufacturing Co., The. (See Palmer, G. E., and Johnson, assignors.)
- Palmer, Frank R., assignor to The Carpenter Steel Company, Reading, Pa. High-phosphorus scale-resisting steel. 1,707,364; Apr. 2.
- Palmer, George H., assignor to Dail Steel Products Company, Lansing, Mich. Automobile bumper. 1,723,366; Aug. 6.
- Palmer, Granville E., Brookline, assignor, by mesne assignments, to The Palmer Electric & Manufacturing Co., Waltham, Mass. Safety switch. 1,700,330; Jan. 29.
- Palmer, Granville E., Brookline, and E. G. Johnson, Boston, assignors, by mesne assignments, to The Palmer Electric Manufacturing Co., Waltham, Mass. Meter adapter. 1,716,660; June 11.
- Palmer, Harry A., Dorchester, assignor to Palmer Inventions, Inc., Boston, Mass. Cylinder for internal-combustion engines. 1,711,904; May 7.
- Palmer, Harry A., Dorchester, assignor to Palmer Inventions, Inc., Boston, Mass. Operating means for impellers. 1,724,772; Aug. 13.
- Palmer, Harry A., assignor to Reynolds Spring Company, Jackson, Mich. Escutcheon plate. 1,741,653; Dec. 31.
- Palmer Inventions, Inc. (See Palmer, Harry A., assignor.)
- Palmer, John, San Francisco, Calif. Beverage filter. 1,706,250; Mar. 19.
- Palmer, John F., St. Joseph, Mich. Pneumatic tire. 1,698,414; Jan. 8.
- Palmer, John F., Milwaukee, Wis. Mop. 1,720,344; July 9.
- Palmer, Oscar, New York, N. Y. Airplane. 1,699,986; Jan. 22.
- Palmer, Ray, Lamar, Mo. Stitch remover. 1,719,304; July 2.
- Palmer, Raymond G. (See Wheeler, Harry, assignor.)
- Palmer, Robert C., Pensacola, Fla., assignor to The Newport Company, Carrollville, Wis. Extracting turpentine, pine oil, and rosin from resinous woods. 1,740,115; Dec. 17.
- Palmer, Russell C., Saxton, Pa. Ground stick. 1,707,315; Apr. 2.
- Palmer, Stephen L., Teaneck, N. J. Hot-water bottle. 1,726,761; Sept. 3.
- Palmer, Theron R., Erie, Pa. Battery box. 1,731,752; Oct. 15.
- Palmer, Violet W. (See Sanderson, Walter, assignor.)
- Palmer, William L., Long Beach, Calif. Process of and mixture for cleaning crude oil. 1,699,374; Jan. 15.
- Palmero, Louis M., and R. G. Jung, Sequin, Tex. Automatic dumping mechanism for vehicles. 1,712,398; May 7.
- Palmerston, Colin C., Monrovia, Calif. Subsurface-trenching device for irrigation or drainage. 1,699,912; Jan. 22.
- Palmerston, Colin C., Monrovia, Calif. Decorating machine. 1,738,922; Dec. 10.
- Palmgren, Per G., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Coupling box for rolling mills. 1,722,251; July 23.
- Palmgren, Per G., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Coupling box for rolling mills. 1,734,978; Nov. 12.
- Palmigiano, Anthony, Jr., Brooklyn, N. Y. Rotating toy. 1,723,656; Aug. 6.
- Palmquist, Andrew, Spokane, Wash., assignor of one-half to E. J. Palmquist, Helena, Mont. Adjustable pot lifter. 1,737,769; Dec. 3.
- Palmquist, Ernest J. (See Palmquist, Andrew, assignor.)
- Palmquist, Johan O., Hamilton, Ontario, Canada. Trap nest. 1,735,442; Nov. 12.
- Palo, Elias A. (See Plummer, R. T., and Palo.)
- Paltenghi, Giovanni, Baden, Switzerland. Device for pointing wooden pencils. 1,708,952; Apr. 16.
- Paltzer, Georg, Basel, assignor to the Firm: Vereinigte Schweizerische Rheinsalinen, Schweizerhalle, near Basel, Switzerland. Delivery mechanism for salt pans and the like. 1,723,880; Aug. 6.
- Paludet, Luis, Rosario De Santa Fe, Argentina. Varying changes of the speed in bicycles, tricycles, and similar machines. 1,719,671; July 2.
- Paluff, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,701,334; Feb. 5.
- Paluff, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,741,200; Dec. 31.
- Paraphilis, Gennaro De, New York, N. Y. Multiple scoring and slitting device. 1,730,196; Oct. 1.
- Pampinella, Frank, Brooklyn, assignor to International Motor Company, New York, N. Y. Rubber eccentric bushing. 1,720,432; July 9.
- Pan American Petroleum Company. (See Black, John C., assignor.)
- Pan American Petroleum Company. (See Black, J. C., Rial, and McConnell, assignors.)
- Pan American Petroleum Company. (See Black, J. C., and Chappell, assignors.)
- Pan American Petroleum Company. (See Black, J. C., and Rial, assignors.)
- Pan American Petroleum Company. (See Black, J. C., Rial, and Howes, assignors.)
- Pan American Petroleum Company. (See Rial, W. D., and Barratt, assignors.)
- Panalle, Anatole, assignor of one-third to Sam L. Needle, Washington, D. C. Medicine for bronchial affections. 1,723,459; Aug. 6.
- Panay Horizontal Show Jar Company. (See Sharp, John E., assignor.)
- Pancoast, Donald F., Lakewood, Ohio. Antitheft device. 1,730,526; Oct. 8.
- Pancoast, George E., Seabright, N. J. Sign. 1,708,028; Apr. 9.
- Pangborn Corporation. (See Hull, Foster J., assignor.)
- Pangburn, Fanny M., et al. (See Williams, French B., assignor.)
- Pangburn, George W., Tacoma, Wash. Flywheel. 1,706,678; Mar. 26.
- Pangburn, Norris, Castleton-on-Hudson, N. Y. Grave marker. Des. 79,161; Aug. 6.
- Panhandle Refining Company. (See Helmcamp, Chris F., assignor.)
- Panhandle Refining Company. (See Turner, Samuel E., assignor.)
- Panhandle Steel Products Company. (See Gosnell, Ernest A., assignor.)
- Pani, Camilo E. (See Reyes, R., Pani, and de Vecchi.)
- Pankey, Amos V., Harrisonburg, Va. Refrigerator. 1,712,713; May 14.
- Pankratz, Alexander C. (See Pankratz, Leon A. and A. C.)
- Pankratz, Leon A. and A. C., assignors to Quality Aluminum Casting Co., Waukesha, Wis. Portable electric heater. 1,730,982; Oct. 8.
- Pannwitz, Wilhelm, Berlin-Copenick, Germany, assignor to Deutsche Gold- und Silber-scheideanstalt Frankfurt-on-the-Main, Germany. Device for tightly clamping tools in handpieces. 1,741,734; Dec. 31.
- Pan-Ross Laboratories, Inc. (See Parsons, John, assignor.)
- Pansy, Joseph, Central Falls, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Protection mechanism for looms. 1,724,306; Aug. 13.
- Pantani, Leone. (See Mirabella, C., Tornadore, and Pantani.)
- Pantenburg, Vitalis, Frankfurt-on-the-Main, Germany. Re-covering gases and vapors from gas mixtures. 1,702,311; Feb. 19.
- Pantex Pressing Machine, Inc. (See Cohen, Hyman E., assignor.)
- Panthen, Charles H., Schenectady, N. Y., assignor to General Electric Company. Waterproof wrapping cloth. 1,729,681; Oct. 1.
- Panyard Machine and Manufacturing Company. (See Bowman, Simeon A., assignor.)
- Panza, Ralph, Los Angeles, Calif. Bracket for lanterns. Des. 79,382; Sept. 10.



- Panzerbieter, Theodor, Berlin-Charlottenburg, and W. Nagel, Berlin, Germany, assignors to Westinghouse Electric & Manufacturing Company, New York, N. Y. Transmission-system switch. 1,718,251; June 25.
- Panzireff, Nicolas, Moscow, Russia. Drier. 1,736,980; Nov. 26.
- Papa, Frank F., Brooklyn, N. Y. Waiting booth or the like. Des. 78,780; June 18.
- Papadakis, James, et al. (See Graham, Joseph A., assignor.)
- Papadopoulos, Basil, Brooklyn, N. Y. Dispensing device. 1,725,930; Aug. 27.
- Papashvili, George J., Los Angeles, Calif. Float switch. 1,719,078; July 2.
- Pape, August H., Kentfield, Calif. Concrete-building form. 1,717,579; June 18.
- Pape, Byron W., Ogden, Utah. Process and apparatus for handling, assorting, and screening material. 1,705,336; Mar. 12.
- Pape, Hermann, Oker/Harz, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Extracting volatilizable metals from ores and metallurgical products. 1,736,665; Nov. 19.
- Papendick, Gustav C., St. Louis, Mo. Sliced baked-loaf package and packaging. 1,722,338; July 30.
- Paper Machinery Corporation. (See Wentz, Sydney C., assignor.)
- Paper Mill Laboratories, Inc. (See Wells, Sidney D., assignor.)
- Paper Patents Company. (See Bright, Charles G., assignor.)
- Paper Patents Company. (See Henderson, Charles L., assignor.)
- Paper Patents Company. (See Thompson, Oscar T., assignor.)
- Paper Service Company, The. (See Rowe, William W., assignor.)
- Paper & Textile Machinery Company, The. (See Burden, Harry C., assignor.)
- Paper & Textile Machinery Co., The. (See Farnsworth, Hiland R., assignor.)
- Paper & Textile Machinery Co., The. (See Millspaugh, William H., assignor.)
- Paper & Textile Machinery Company, The. (See Wood, Robert F., assignor.)
- Paper Utilities Corporation. (See Shay, Ralph R., assignor.)
- Papick & Schantzer. (See Alpern, Max, assignor.)
- Papini, Anthony, Leonia, N. J., assignor to P. W. Valentine, Cambridge, Mass. Radiant-heat projector. 1,705,134; Mar. 12.
- Pappadakes, Gust, New York, N. Y. Condiment holder. 1,721,830; July 23.
- Pappadakis, Andru G., Detroit, Mich. Alarm mechanism. 1,734,341; Nov. 5.
- Pappas, Denis, Detroit, Mich. Sidewalk cleaner. 1,716,661; June 11.
- Pappert, Emanuel, New York, N. Y. Spectacle bridge or similar article. Des. 77,855; Feb. 26.
- Pappert, Emanuel, New York, N. Y. Temple. Des. 78,310; Apr. 16.
- Pappert, Emanuel, New York, N. Y. Spectacle frame. Des. 78,651; May 28.
- Pappert, Emanuel, New York, N. Y. Spectacle frame. Des. 79,162; Aug. 6.
- Pappert, Emanuel, New York, N. Y. Optical frame. Des. 79,753; Oct. 29.
- Paquette, Exilias E., Woodstock, Ontario, Canada, assignor to Scott and Williams, Inc., New York, N. Y. Knitting machine. 1,723,881; Aug. 6.
- Paquette, Joseph A., New Milford, Conn. Plasterer's tool. 1,726,119; Aug. 27.
- Paquit, Vital, New York, N. Y. Spark producing and distributing apparatus for internal-combustion engines. 1,736,861; Nov. 26.
- Paradise, Bertrand, Brooklyn, N. Y. Inked ribbon and making the same. 1,742,093; Dec. 31.
- Paradise, Frank M., assignor to McAdoo & Allen Welting Company, Quakertown, Pa. Goodyear welt. 1,698,649; Jan. 8.
- Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Hitch device. 1,715,779; June 4.
- Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Corn harvester. 1,717,889; June 18.
- Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Crank-wheel shield for mowing machines. 1,727,017; Sept. 3.
- Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Conveyor. 1,731,393; Oct. 15.
- Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Harvester finger bar. 1,731,434; Oct. 15.
- Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Corn harvester. 1,731,435; Oct. 15.
- Paradise, Napoleon P., Shanghai, China, assignor to Standard Oil Company of New York, New York, N. Y. Conveyor soldering machine. 1,735,386; Nov. 12.
- Paraffine Companies, The. (See Doran, Walter B., assignor.)
- Paraffine Companies, The. (See Finley, Dozier, assignor.)
- Paraffine Companies, The. (See Irving, Andrew H., assignor.)
- Paraffine Companies, The. (See Rosener, Leland S., assignor.)
- Paraffine Companies, The. (See Rosener, L. S., and Patterson, assignors.)
- Paragon Distributing Corporation. (See Freeman, Samuel, assignor.)
- Paragon Mailing Machine Company. (See Thacker, Anson A., assignor.)
- Paralock Company, The. (See Van Valkenberg, H. L., and Miller, assignors.)
- Paramount Electric Mfg. Co. (See Meyers, Samuel A., assignor.)
- Paramount Famous Lasky Corporation. (See del Riccio, Lorenzo, assignor.)
- Paramount Famous Lasky Corporation. (See Pomeroy, Roy J., assignor.)
- Paramount Fire Alarm Engineering Company, The. (See Carnahan, Ralph W., assignor.)
- Paramount Paper Products Company. (See Simmons, Paul R., assignor.)
- Paramount Spark Plug Corporation. (See Griffin, Patrick J., assignor.)
- Paramount Textile Machinery Co. (See Gray, Lynn, assignor.)
- Paramount Textile Machinery Co. (See Prosser, Thomas W., assignor.)
- Paratec Corporation, The. (See Robertson, James B. and G., assignors.)
- Parc Engineering Company Limited, Manufacturers. (See Player, Edward, assignor.)
- Parcell, James W., San Francisco, Calif., dedicated, by mesne assignments, to the Citizens of the United States. Sterilizing food products. 1,708,105; Apr. 9.
- Parcell, John, New York, N. Y. Illuminating means for photographic cabinets. 1,736,012; Nov. 19.
- Parco Specialty Co. (See Evans, Harold A., assignor.)
- Pardee, Belle E. (See Pardee, Harvey S., assignor.)
- Pardee, Frank, Hazleton, Pa. Feeder. 1,719,305; July 2.
- Pardee, Frank, assignor to Anthracite Separator Company, Hazleton, Pa. Spiral lowering chute and method of manufacture. 1,708,029; Apr. 9.
- Pardee, Frank, assignor to Anthracite Separator Company, Hazleton, Pa. Spiral runway. 1,712,714; May 14.
- Pardee, Frank, assignor to Anthracite Separator Company, Hazleton, Pa. Lowering chute. 1,712,715; May 14.
- Pardee, Frank, jr. (See Pardee, Frank and F., jr.)
- Pardee, Frank and F., jr., assignors to Anthracite Separator Company, Hazleton, Pa. Lowering chute. 1,722,675; July 30.
- Pardee, Harvey S., Chicago, assignor to B. E. Pardee, Ravinia, Ill. Electrically-controlled carburetor. 1,709,628; Apr. 16.
- Pardee, Harvey S., Ravinia, assignor to E. B. Flynn, Alton, Ill. Directory. 1,727,840; Sept. 10.
- Pardee, Harvey S., and J. A. Dewire, assignors, by mesne assignments, to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. 1,707,365; Apr. 2.
- Pardon, Ernest J. (See Fritz, A. H., and Pardon.)
- Pardue, Elbert L., Huntingdon, Tenn. Gravel spreader. 1,735,297; Nov. 12.
- Pardun, Carl, and P. Voetter, Gelsenkirchen, Germany, assignor, by mesne assignments, to Centrifugal Pipe Corporation. Centrifugal casting apparatus. 1,708,849; Apr. 9.
- Parella Corporation, The. (See Foster, Lee B., assignor.)
- Parentani, Fernand, Brussels, Belgium. Purifying clay and like materials. 1,727,441; Sept. 10.
- Parfumerie Houbigant. (See Amez-Droz, Yvan, assignor.)
- Parham, Eugene C., Brooklyn, N. Y. Protective device for electric systems. 1,706,937; Mar. 26.
- Paris Cosmetics, Inc. (See Friedberg, Leonard, assignor.)
- Paris, Hugh P., King County, near Kirkland, assignor to Paris Transit Mixer Company, Seattle, Wash. Raffle plate arrangement for concrete mixers. 1,723,367; Aug. 6.
- Paris, Percy G. (See Ring, F. G., and Paris.)
- Paris, Peter. (See Merola, Gaetano, assignor.)
- Paris, Robert E., New York, N. Y. Automatic stop for tabulating machines. 1,712,901; May 14.
- Paris Transmit Mixer Company. (See Paris, Hugh P., assignor.)
- Parish, Michael H., Pittsburgh, Pa. Structural bracing member. 1,725,414; Aug. 20.
- Parish Pressed Steel Company. (See Kachel, Charles, assignor.)
- Parish Pressed Steel Company. (See Lewis, H. S., and Kachel, assignors.)
- Parish, Richard L., assignor to American Flange & Manufacturing Co., Chicago, Ill. Making containers. 1,713,675; May 21.
- Parish, Richard L., Chicago, Ill. Container having bung. 1,737,675; Dec. 3.
- Parish, Richard L., assignor to American Flange & Manufacturing Co., Chicago, Ill. Container having bung. 1,737,676; Dec. 3.
- Parisi, Francesco, Turin, Italy. Spring suspension for vehicle bodies. 1,737,328; Nov. 26.
- Park Chemical Company. (See Bourg, J. N., and Richards, assignors.)
- Park Metalware Co. Inc. (See Zilliox, John, assignor.)
- Park, Richard G., jr. (See Elliot, William A., assignor.)
- Park, Tracy S., Houston, Tex. Steel derrick construction. 1,729,894; Oct. 1.
- Parke, Charles G., Oakland, Calif. Transmission. 1,730,597; Oct. 8.
- Parke, Charles S. (See Harshaw, W. J., and Parke.)



- Parke, Davis & Company. (See Anderson, Carlisle N., assignor.)
- Parke, Davis & Company. (See Dox, Arthur W., assignor.)
- Parke-Davis & Company. (See Ferry, Newell S., assignor.)
- Parke, Frederic H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,703,896; Mar. 5.
- Parke, Frederic H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pressure governor. 1,709,871; Apr. 23.
- Parke, Frederic H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor-controlling device. 1,723,203; Aug. 6.
- Parke, Peter, and F. O. Marshall, assignors to The Pullman Company, Chicago, Ill. Generator-suspension apparatus. 1,725,824; Aug. 27.
- Parker, Albert, Providence, R. I. Automatic lighting device for autos. 1,723,882; Aug. 6.
- Parker, Albert, Tipton, England. Grit catcher. 1,739,014; Dec. 10.
- Parker, Alvah C., Toledo, Ohio, assignor to The Libbey Glass Manufacturing Company, Chuck. 1,739,371; Dec. 10.
- Parker, Arthur H. (See Sebell, Harry, assignor.)
- Parker, Arthur W., San Jose, Calif. Fruit-treating apparatus. 1,720,491; July 9.
- Parker, Arvel W., Los Angeles, Calif. Cushion seat. 1,706,585; Mar. 26.
- Parker, Ben H., and C. D. Beeth, jr., Lamar, Colo. Electromagnetic hammer. 1,720,854; July 16.
- Parker, Charles. (See Locke, S. D., and Parker.)
- Parker, Charles, assignor to The Locke Steel Chain Company, Bridgeport, Conn. Apparatus and process for making chain links with integral attachments. 1,719,811; July 2.
- Parker, Charles, assignor to The Locke Steel Chain Company, Bridgeport, Conn. Apparatus for making chain. 1,724,773; Aug. 13.
- Parker, Charles, assignor to The Locke Steel Chain Company, Bridgeport, Conn. Process of and apparatus for making chain. 1,730,236; Oct. 1.
- Parker, Clark W., New York, N. Y. Frame for cigarette lighting and vending machines. Des. 77,497; Jan. 15.
- Parker, Earl S., Los Angeles, Calif. Broiler. 1,715,617; June 4.
- Parker, Erie L., Los Angeles, Calif. Cake holder and cooler. 1,703,453; Feb. 26.
- Parker, Ernest A., assignor to The Springfield Aluminum Plate & Castings Company, Springfield, Ohio. Mold jacket. 1,733,387; Oct. 29.
- Parker, Frank H., and K. H. Kolpien, assignors, by mesne assignments, to The Niagara Mixer Company, Cleveland, Ohio. Culinary mixer. 1,740,709; Dec. 24.
- Parker, Frank H., and K. H. Kolpien, assignors, by mesne assignments, to The Niagara Mixer Company, Cleveland, Ohio. Fluid motor. 1,740,710; Dec. 24.
- Parker, George D., Riverside, Calif. Securing covers to containers. 1,715,780; June 4.
- Parker, George D., Riverside, Calif. Carded-article strap. 1,739,085; Dec. 10.
- Parker, George H., Goldsboro, N. C. Grave cover. 1,730,289; Oct. 1.
- Parker, George F., assignor to Towle Manufacturing Company, Newburyport, Mass. Plate or analogous article. Des. 78,782; June 18.
- Parker, Guy E., assignor to General Motors Corporation, Detroit, Mich. Spare-wheel lock. 1,726,516; Aug. 27.
- Parker, Hazel V. (See Altman, C., and Parker.)
- Parker, Henry C., assignor to Leeds & Northrup Company, Philadelphia, Pa. Circuit-controlling device. 1,704,404; Mar. 5.
- Parker, Herbert, et al. (See Bartholomew, Bert E., assignor.)
- Parker, Herbert W., Chicago, Ill. Cooking machine. 1,716,002; June 4.
- Parker, Herschel C., Los Angeles, Calif. Electrochemical treatment of saline and alkaline solutions. 1,726,236; Aug. 27.
- Parker, Howard. (See Brown, O. B., and Parker.)
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Repair element for fibrous conduits. 1,704,760; Mar. 12.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Dispensing cabinet. 1,719,338; July 2.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Reducer for fibrous conduits. 1,722,676; July 30.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Machine for making fiber tubes. 1,729,358; Sept. 24.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Conduit breach. 1,733,512; Oct. 29.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Method and apparatus for saturating fibrous articles. 1,738,794; Dec. 10.
- Parker, Humphrey F. (See Holmes, B. B., and Parker.)
- Parker, James E., Washington, D. C. Multiple wave detection and transmission apparatus. 1,702,917; Feb. 19.
- Parker, James E., Washington, D. C. System of modulation. 1,724,960; Aug. 20.
- Parker, James W. (See Thompson, P. W., Parker, and Thorp.)
- Parker, Jessie A. (See Barnes, William J., assignor.)
- Parker, John A., assignor to International Shoe Company, St. Louis, Mo. Centering device for shoe soles. 1,736,216; Nov. 19.
- Parker, John F., Portland, Me. Telephone. 1,726,855; Sept. 3.
- Parker, Julius R., Windsor, Vt. Slotting machine. 1,712,580; May 14.
- Parker, Karr, Buffalo, N. Y. System of reception and reproduction of radio programs. 1,741,430; Dec. 31.
- Parker, Karr, Buffalo, N. Y. Sound-reproducing set. 1,741,431; Dec. 31.
- Parker, Lamir, Los Angeles, Calif. Casement-window fastener. 1,740,830; Dec. 24.
- Parker, Lars J., Chicago, Ill., assignor to Quality Hardware & Machine Co. Telescopic punch for forming tubes. 1,720,375; July 9.
- Parker, Leslie O., and L. C. Shipley, Anderson, Ind., assignors to Delco-Remy Corporation, Dayton, Ohio. Electric lamp. 1,712,934; May 14.
- Parker, Lester L., Greensboro, N. C. Trap. 1,720,433; July 9.
- Parker, Louise B., Winnipeg, Manitoba, Canada. Glare extermiator. 1,729,051; Sept. 24.
- Parker, Mack. (See Weston, Frederick J., assignor.)
- Parker, Mary G., assignor to Towle Manufacturing Company, Newburyport, Mass. Coffeepot or analogous article. Des. 78,121; Mar. 26.
- Parker Pen Company. (See Bumps, Amos F., assignor.)
- Parker, Raizemond D., and W. L. Overton, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Submarine-cable telegraphy. 1,708,974; Apr. 16.
- Parker, Raizemond D., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telegraphic transmission of pictures. 1,728,978; Sept. 24.
- Parker, Raymond H., South Weymouth, Mass. Fruit or preserve jar. 1,702,795; Feb. 19.
- Parker-Regan Corporation. (See Regan, George P., assignor.)
- Parker, Richard B., Skaneateles, assignor to S. E. Darby, trustee, New York, N. Y. Feeding device for retorts. 1,737,170; Nov. 26.
- Parker, Roy S., Merriman, Nebr. Hay wagon. 1,730,943; Oct. 8.
- Parker Rust Proof Company. (See Allen, William H., assignor.)
- Parker, Sidney C., New Westminster, British Columbia, Canada. Separator. 1,725,474; Aug. 20.
- Parker, Stanley F., assignor, by mesne assignments, to H. Loewenbach, Milwaukee, Wis. Beet-topping machine. 1,714,617; May 28.
- Parker, Thomas H., assignor to Underwriters Utilities Corp., San Francisco, Calif. Fire extinguisher. 1,719,277; July 2.
- Parker, Thomas L., assignor to The Standard Electric Manufacturing Co., Chicago, Ill. Switch button. 1,724,039; Aug. 13.
- Parker, Walter H., assignor to Guarantee Liquid Measure Company, Rochester, Pa. Cleaning device for measuring cylinders. 1,696,969; Jan. 1.
- Parker, Walter H., and F. W. Delaney, Rochester, Pa., assignors, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Liquid-dispensing mechanism. 1,736,981; Nov. 26.
- Parker, William, jr., Ben Avon, Pa. Wrench. 1,733,273; Oct. 29.
- Parker, William H., and C. A. Taylor, Denver, Colo. Valve. 1,700,073; Jan. 22.
- Parker, William O., Topeka, Kans. Cable wrench. 1,715,425; June 4.
- Parker, William S., assignor to Burson Knitting Company, Rockford, Ill. Knitting machine. 1,711,649; May 7.
- Parker, William S., assignor to Burson Knitting Company, Rockford, Ill. Yarn clamp. 1,728,303; Sept. 17.
- Parkersburg Rig & Reel Company, The. (See Wolfe, Dell H., assignor.)
- Parkes, Deric W., Ryders Green, West Bromwich, assignor of one-half to H. W. Robinson, Birmingham, England. Producing soluble lead reagents. 1,740,312; Dec. 17.
- Parkes, William N., Brooklyn, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Lubricating means for sewing-machine loop takers. 1,698,965; Jan. 15.
- Parkes, William N., Brooklyn, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Guard for sewing-machine loop takers. 1,728,506; Sept. 17.
- Parkhurst, Charles E. (See Bridge, W. G., and Pervier, assignors.)
- Parkhurst, Malcolm K., New York, N. Y., assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Toolmaker's clamp. 1,713,239; May 14.
- Parkin, Winfred T., assignor to Theodore W. Foster & Bro. Co., Providence, R. I. Filler for vanity cases. 1,713,240; May 14.
- Parkins, George L., Columbus, Ohio. Window fastener. 1,737,891; Dec. 3.
- Parkinson, William J., Rochester, N. Y. Bushing press. 1,704,442; Mar. 5.
- Parkison, Ed H. (See Parkison, John E., assignor.)
- Parkison, John E., Seattle, Wash., assignor of one-half to E. H. Parkison, Encampment, Wyo. Abdominal support. 1,727,668; Sept. 10.
- Parkier, Fitz E., Chicago Heights, Ill. Vaginal syringe. Re17,319; June 4.
- Parkier, Fitz E., Chicago Heights, Ill. Headlight. 1,710,187; Apr. 23.
- Parkier, Fitz E., Chicago Heights, Ill. Vaginal syringe. 1,718,915; June 25.
- Parks, Andrew J. (See Keeling, Isaac N., assignor.)



- Parks, Byron E., Walker Township, Kent County, Mich. Rotary pump. 1,736,666; Nov. 19.
- Parks-Cramer Company. (See Karlson, Alfred F., assignor.)
- Parks, Dennis, St. Louis, Mo. Equalizing plate for use in beel building. 1,740,871; Dec. 24.
- Parks, Edward F., Providence, R. I., assignor, by mesne assignments, to The New England Trust Company, trustee. Toroidal coil. 1,698,650; Jan. 8.
- Parks, Edward F., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Bobbin-winding machine. 1,737,198; Nov. 26.
- Parks, Frederick J., assignor of one-half to S. W. Scofield, Cleveland, Ohio. Machine for making envelopes. 1,715,717; June 4.
- Parks, Frederick J., assignor of one-half to S. W. Scofield, Cleveland, Ohio. Gunning device for envelope-making machines. 1,739,647; Dec. 17.
- Parks, Frederick W., Fitchburg, Mass. Brake-drum-grinding device. 1,714,103; May 21.
- Parks, Glen, Seattle, Wash. Box-making machine. 1,706,586; Mar. 26.
- Parks, Lytle R., State College, Pa. Colloidal mordant bath and making it. 1,710,000; Apr. 23.
- Parks, Paul B., Oak Park, and D. W. Miller, Elmhurst, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Automatic switch. 1,701,761; Feb. 12.
- Parks, Paul B., Oak Park, and D. W. Miller, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Regulating apparatus for car-heating systems. 1,729,519; Sept. 24.
- Parks, Paul B., Oak Park, and D. W. Miller, Elmhurst, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Regulating apparatus for car-heating systems. 1,729,743; Oct. 1.
- Parks, Randall L., Cole Camp, Mo. Windshield cleaner. 1,713,710; May 21.
- Parks, Robert D., Lohrville, assignor to S. A. Nystedt, Storm Lake, Iowa. Paper cutting and vending machine. 1,710,001; Apr. 23.
- Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)
- Parkyn, W. B. (See Andresen, George, assignor.)
- Parlante, Frank, New York, N. Y. Shoe. 1,709,735; Apr. 16.
- Parlante, Frank, Brooklyn, N. Y. Shoe. 1,723,883; Aug. 6.
- Parman, Omer C. (See McWilliams, T. A., Parman, and Overall.)
- Parmele, Charles R., et al., executors. (See Finnigan, G. P., and Varley.)
- Parmelee, Alfred E. (See Calcott, W. S., and Parmelee.)
- Parmelee, Alfred E. (See Daudt, H. W., Parmelee, and Monroe.)
- Parmelee, Alfred E., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovering disubstituted guanidines. 1,716,031; June 4.
- Parmelee, Alfred E., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of beta-naphthol-1-sulphonic acid. 1,716,082; June 4.
- Parmelee, Charles L., Orange, N. J. Oil still. 1,736,325; Nov. 19.
- Parmer, John H., Tulsa, Okla. Axle straightener. 1,720,133; July 9.
- Parmy, Eleazar, jr., Chicago, Ill. Phonograph cabinet or similar article. Des. 77,431; Jan. 8.
- Parnell, William E. (See Bernier, A. F., and Parnell.)
- Parnet, Arsène, Paris, France. Machine for automatically cutting slate into sheets. 1,739,414; Dec. 10.
- Parr, Louis F., Chicago, Ill. Bookbinder. 1,735,211; Nov. 12.
- Parr, Samuel W., Urbana, and J. H. Nelsen, East Moline, Ill. Internal-combustion engine. 1,714,318; May 21.
- Parran, Alice N., Baltimore, Md. Dispensing apparatus. 1,734,045; Nov. 5.
- Parrett, Dent, Chicago, Ill. Tractor. 1,707,316; Apr. 2.
- Parrett, Dent, Springfield, Ohio. Tractor. 1,712,162; May 7.
- Parrish, Cecil C., Donora, Pa. Motor-control device. 1,713,916; May 21.
- Parrish, Jefferson M., Richmond, Va. Mixing fertilizers. 1,739,732; Dec. 17.
- Parrish, Lloyd A., R. H. Ericson, and A. McCracken, Ontario, Wis. Pumping or circulating system. 1,714,921; May 28.
- Parrish, Richard, Detroit, Mich. Rope-end device. 1,698,001; Jan. 8.
- Parrish, Roland D., Richmond, Va. Motor-vehicle front assembly. Des. 79,306; Aug. 27.
- Parrish, William C., Port Arthur, Tex. Pumping system. 1,741,115; Dec. 24.
- Parrock, Harry P., Brookline, Mass. Manufacture of alloy pig iron. 1,716,181; June 4.
- Parrott, James M., Briceville, Tenn. Tractor. 1,724,774; Aug. 13.
- Parrott, Thomas E., Claremore, Okla., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Grease gun. 1,711,903; May 7.
- Parrott, William J., and R. Hagen, Mason City, Iowa. Golf tee. 1,708,774; Apr. 9.
- Parry, Nathaniel G., assignor to The Koppers Company, Pittsburgh, Pa. Coke-oven valve construction. 1,704,209; Mar. 5.
- Parry, Otelia H., Long Beach, Calif. Milk-bottle-cap remover. 1,708,454; Apr. 9.
- Parry, Sam R., jr., and J. E. Clark, jr., Chattanooga, Tenn. Rumble-seat top. 1,728,006; Sept. 10.
- Parsels, William B., Pleasantville, N. J. Inclosure and roller for hearses. 1,698,168; Jan. 8.
- Parshall, Dallas D. (See Loranger, H. R., and Parshall.)
- Parshall, Dallas D., Watervliet, N. Y., assignor to The Jack Frost Company, Stamford, Conn. Thermostatic-control mechanism for domestic refrigerating systems. 1,725,415; Aug. 20.
- Parshall, Harry R. (See Crocker, T. F., and Parshall.)
- Parshall, Harry R., assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,739,178; Dec. 10.
- Parson, Ossian, assignor of one-half to O. Olson, Seattle, Wash. Fuel tank. 1,725,537; Aug. 20.
- Parson, Walter O., and J. F. Smith, Geneseo, Ill.; said Smith assignor to said Parson. Battery terminal. 1,704,236; Mar. 5.
- Parsons, Bert S., Fort Scott, Kans. Firearm. 1,702,221; Feb. 12.
- Parsons, Carl B., assignor to Motor Products Corporation, Detroit, Mich. Control mechanism for windshields. 1,720,921; July 16.
- Parsons, Carl B., assignor to Motor Products Corporation, Detroit, Mich. Manufacturing covered hinges. 1,723,628; Aug. 6.
- Parsons, Charles A., Newcastle-on-Tyne, England. Surface condenser. 1,699,987; Jan. 22.
- Parsons, Charles A., Newcastle-on-Tyne, England. Surface condenser. 1,739,415; Dec. 10.
- Parsons, Charles A., and J. Rosen, Newcastle-on-Tyne, England; said Rosen assignor to said Parsons. Dynamo-electric machine. 1,699,623; Jan. 22.
- Parsons, Charles A., and E. Garrett Brownlow, Newcastle-on-Tyne, England; said Brownlow assignor to said Parsons. Manufacture of metal strip suitable for turbine blades. 1,729,009; Sept. 24.
- Parsons, Clark D., Orlando, Fla. Automobile accessory. 1,701,696; Feb. 12.
- Parsons, Clinton H., assignor to Swift & Company, Chicago, Ill. Cheese-slicing machine. 1,702,879; Feb. 19.
- Parsons, Clinton H., assignor to Swift & Company, Chicago, Ill. Meat-cheese loaf and preparing same. 1,721,406; July 16.
- Parsons, Clinton H., assignor to Swift & Company, Chicago, Ill. Food product and making the same. 1,737,770; Dec. 3.
- Parsons Company, The. (See Vaughn, George A., assignor.)
- Parsons, Ernest P., deceased; W. M. Baldwin, administrator, assignor to The Parsons & Parsons Company, Cleveland, Ohio. Wearing apparel. 1,698,066; Jan. 8.
- Parsons, Fred A., Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis. Milling-machine structure. 1,706,587; Mar. 26.
- Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Milling-machine transmission and control mechanism. 1,718,067; June 18.
- Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Moving machine-tool supports. 1,721,668; July 23.
- Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Transmission mechanism. 1,730,161; Oct. 1.
- Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Fluid transmission and control means for machine tools. 1,740,744; Dec. 24.
- Parsons, James A., jr., Dayton, Ohio, assignor to The Duriron Company, Inc. Iron alloy. 1,728,360; Sept. 17.
- Parsons, Joe B., Toronto, Ontario, Canada, assignor, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Automobile storage-battery container. 1,716,598; June 11.
- Parsons, John, Belleville, N. J., assignor to Pan-Ross Laboratories, Inc., New York, N. Y. Machine adapted for preparing self-lighting cigarettes. 1,723,068; Aug. 6.
- Parsons, John, Newton Center, Mass. Cigarette case for use in connection with self-lighting cigarettes. 1,705,309; Mar. 12.
- Parsons, John S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. 1,705,676; Mar. 19.
- Parsons, Newell B., La Grange, J. E. Woodruff, Chicago, and F. A. Tibbals, Riverside, assignors to Belden Manufacturing Company, Chicago, Ill. Ignition-timer wiring assembly. 1,719,022; July 2.
- Parsons & Parsons Company, The. (See Parsons, Ernest P., assignor.)
- Parsons, Ralph M., Amagansett, L. I., assignor to W. G. Leamon, New York, N. Y. Liquid-control mechanism. 1,737,171; Nov. 26.
- Parsons, Raymond V., Cleveland, Ohio, assignor to John-Manville Corporation, New York, N. Y. Interior-finish construction. 1,734,689; Nov. 5.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Strap-cutting tool. Des. 78,652; May 28.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Door catch. 1,707,682; Apr. 2.
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Friction butt. 1,737,544; Nov. 26.



- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Ball-bearing hinge. 1,738,015; Dec. 3.
- Parsons, Sylvanus H. H., Poughkeepsie, N. Y. Cable-adjusting device for steering quadrants. 1,711,126; Apr. 30.
- Parsons, Sylvanus H. H., Poughkeepsie, N. Y. Sheave block. 1,737,268; Nov. 26.
- Parsons, William J., assignor to Millers Falls Company, Millers Falls, Mass. Tool and frame. 1,732,613; Oct. 22.
- Partlow, Howard W., Utica, N. Y. Temperature regulator. 1,713,856; May 21.
- Partridge, Alvin S., Richmond Highlands, Wash. Label-attaching device. 1,729,961; Oct. 1.
- Partridge, Edwin M. (See Friend, R. O., and Partridge.)
- Partridge, Frank S. (See Tidnam, F. H., and Partridge.)
- Parvin, Henry M., Colfax, Wash. Tube-repairing clamp. 1,729,121; Sept. 24.
- Pasal, Charles F., Chicago, Ill. Table utensil. 1,699,248; Jan. 15.
- Pascal, Charles, Montreal, Quebec, Canada, assignor to Pascal Rail Joint Company, Inc. Electric contact in rail joints. 1,736,217; Nov. 19.
- Pascal Rail Joint Company. (See Pascal, Charles, assignor.)
- Pascale, Pasquale, New York, N. Y., assignor to Dri-Steam Valve Corporation. Steam valve. 1,710,946; Apr. 30.
- Pascale, Pasquale, New York, N. Y., assignor to Dri-Steam Valve Corporation. Steam valve. 1,712,902; May 14.
- Pascale, Pasquale, New York, N. Y., assignor to Dri-Steam Valve Corporation. Valve. 1,739,015; Dec. 10.
- Pascale, Pasquale, assignor to Dri-Steam Valve Corporation, New York, N. Y. Separator. 1,724,105; Aug. 13.
- Paschen, Baldomero, Concepcion, Chile. Propelling device. 1,704,443; Mar. 5.
- Pascher, Adalbert, Neufinkenkrug, Germany, assignor to General Electric Company. Circuit-control system. 1,723,884; Aug. 6.
- Paschke, Karl, et al. (See Schwabbauer, Reinhold, assignor.)
- Pascoe, Wilbert A., Salt Lake City, Utah. Brooder. 1,732,139; Oct. 15.
- Pascucci, Emilio, assignor to Corning Glass Works, Corning, N. Y. Socket. 1,721,971; July 23.
- Paslay, Robert E., assignor to Hoker-Poker Company, Aberdeen, Wash. Game board. Des. 80,068; Dec. 3.
- Pasman, Abram N., assignor to Scovill Manufacturing Company, Waterbury, Conn. Pipe fitting. 1,728,769; Sept. 17.
- Pasnik, Alexander M., Norwich, Conn. Sugar bowl. 1,698,732; Jan. 15.
- Pasquarelli, Blase, Bronx, N. Y., and G. N. Lusby, South Amboy, N. J., said Lusby assignor to said Pasquarelli. Signaling device. 1,715,673; June 4.
- Pasqué, Ernest H., Detroit, Mich. Massage device. 1,707,366; Apr. 2.
- Pass & Seymour, Inc. (See Burns, Peter E., assignor.)
- Pass & Seymour, Inc. (See Le Fever, Daniel M., assignor.)
- Pass & Seymour, Incorporated. (See Le Fever, Daniel M., assignor.)
- Pass & Seymour, Incorporated. (See Morey, Harry J., assignor.)
- Pass & Seymour, Inc. (See Russell, Mark N., assignor.)
- Pass & Seymour, Inc. (See Thompson, Don N., assignor.)
- Pass & Seymour, Inc. (See Zeidler, Richard A., assignor.)
- Pass, Arthur, Brookside, England. Apparatus for grinding, surfacing, and polishing the curved surfaces of lenses and the like. 1,739,086; Dec. 10.
- Passelecq, Georges H., Enghien, France. Concentrating apparatus. 1,711,614; May 7.
- Passman, Morris, Brooklyn, N. Y. Receptacle. 1,730,743; Oct. 8.
- Passman, Morris, Brooklyn, N. Y. Receptacle. 1,730,744; Oct. 8.
- Passmore, William O. (See Gillings, C., and Passmore.)
- Passmore, William O., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Semiautomatic telephone system. 1,716,563; June 11.
- Passmore, William O., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,721,920; July 23.
- Passmore, William O., Liverpool, England, assignor to Associated Telephone and Telegraph Company, Kansas City, Mo. Automatic telephone system. 1,722,538; July 30.
- Passmore, William O., Liverpool, and C. E. Beale, London, England, assignors to Associated Telephone and Telegraph Company, Kansas City, Mo. Telephone system. 1,714,724; May 28.
- Pasternack, Aaron I., et al. (See Schlossberg, M., and Pasternack, assignors.)
- Pasternack, David G., et al. (See Schlossberg, M., and Pasternack, assignors.)
- Pasternack, William. (See Shriner, Robert L., assignor.)
- Pasternak, Martin. (See Van Dyck, A. F., Quinby, and Pasternak.)
- Pastore, Salvatore, Providence, R. I. Support for telephone receivers. 1,741,950; Dec. 31.
- Paszkowski, Paul, Irvington, N. J., assignor to Westinghouse Electric & Manufacturing Company. Bearing. 1,728,507; Sept. 17.
- Patart, Georges L. E., Paris, France. Arrangement for the recovery of heat and water vapor in gaseous reactions. 1,703,747; Feb. 26.
- Patch, Albert C., Topeka, Kans. Wrench. 1,738,607; Dec. 10.
- Patch, F. R., Manufacturing Company. (See Crane, Leslie, assignor.)
- Pate, Thomas G., Liberal, Kans. Photographic-printing machine. 1,734,825; Nov. 5.
- Pate, William R., and J. A. Gitzen, assignors to Lindsay-McMillan Co., Milwaukee, Wis. Liquid core binder. 1,723,982; Aug. 6.
- Pateman, Wilfred S., Sydney, New South Wales, Australia. Machine for the manufacture of lath blinds. 1,723,558; Aug. 6.
- Patenaude, E. L. (See Beeby, John H., assignor.)
- Patent Button Company, The. (See Abel, Walter T., assignor.)
- Patent Button Company, The. (See Purinton, Forrest G., assignor.)
- Patent Button Company, The. (See White, Franklin R., assignor.)
- Patent Button Company, The. (See White, F. R., and Carley, assignors.)
- Patent Engineering Company. (See Baack, Howard E., assignor.)
- Patent Novelty Company. (See Reimer, George H., assignor.)
- Patent Products Corporation of Chicago. (See Macomic, Chester A., assignor.)
- Patent-Treuhand Gesellschaft fuer Elektrische Gluehlampen. (See Pirani, Marcello, assignor.)
- Patent-Treuhand-Gesellschaft fuer Elektrische Gluehlampen m. b. H. (See Friederich, E., and Meyer, assignors.)
- Patentaktiebolaget Centralismörjning. (See Clausen, Carl H., assignor.)
- Patents Process Incorporated. (See Williams, Frank D., assignor.)
- Pater, Paul G., assignor to The Long & Allstatter Company, Hamilton, Ohio. Power shears. 1,704,803; Mar. 12.
- Pater, Paul G., assignor to The Long & Allstatter Company, Hamilton, Ohio. Removable bearing. 1,714,563; May 28.
- Patermann, Myro, Zehlendorf, Germany. Tin opener. 1,709,736; Apr. 16.
- Paterniti, Salvatore, Detroit, Mich. Foot support. 1,726,583; Sept. 3.
- Paterson, David, Toronto, Ontario, Canada. Brake shoe. 1,729,010; Sept. 24.
- Paterson, Dugald S., and G. B. Petsche, Philadelphia, Pa., assignors to The National Acme Company, Cleveland, Ohio. Centrifuge. 1,714,985; May 28.
- Paterson, Dugald S., and G. B. Petsche, Philadelphia, Pa., assignors to The National Acme Company, Cleveland, Ohio. Centrifugal clarifying separator. 1,714,986; May 28.
- Paterson, John C. (See Baker, G. R., and Paterson.)
- Paterson, John C., London, England, assignor to Baker Perkins Co. Inc., Saginaw, Mich. Conveying apparatus. 1,711,576; May 7.
- Paterson, John H., Westminster, London, assignor to Imperial Chemical Industries Limited, London, England. Arc-welding tool. 1,731,502; Oct. 15.
- Paterson, John L., Ventura, Calif. Pump valve. 1,725,297; Aug. 20.
- Paterson, May H. (See Paterson, William and M. H.)
- Paterson, Morton L., Boston, assignor to Converse Rubber Company, Malden, Mass. Shoe sole. Des. 79,934; Nov. 19.
- Paterson Reed & Harness Co. (See Potter, Walter L., assignor.)
- Paterson, Robert. (See Phelan, James H., assignor.)
- Paterson, William and M. H., Oakland, Calif. Traction and antikid attachment for automobile and truck drive wheels. 1,729,799; Oct. 1.
- Pathé Cinéma, Anciens Etablissements Pathé Freres. (See Merle, André N., assignor.)
- Pathé-Cinéma, Anciens Etablissements Pathé Frères. (See Outrey, Fernand, assignor.)
- Pathe Exchange, Inc. (See Adatte, A. L., and Chanier, assignors.)
- Pathe Exchange, Inc. (See Chanier, G. L., and Adatte, assignors.)
- Patino Mines & Enterprises Consolidated Inc. (See Handy, Royal S., assignor.)
- Patino Mines & Enterprises Consolidated Inc. (See Handy, R. S., and Beard, assignors.)
- Patitz, Gerhard J., Peekskill, assignor to The Fleischmann Company, New York, N. Y. Yeast-handling apparatus. 1,709,405; Apr. 16.
- Patnaude, Edmond T., Providence, R. I., assignor, by mesne assignments, to Clark Lighter Co., Inc., North Attleboro, Mass. Pocket cigar lighter. 1,726,237; Aug. 27.
- Paton, Clyde R., assignor to The Studebaker Corporation, South Bend, Ind. Automobile construction. 1,703,592; Feb. 26.
- Paton, Clyde R., assignor to The Studebaker Corporation, South Bend, Ind. Automobile construction. 1,727,409; Sept. 10.
- Paton, Clyde R., Birmingham, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Steering mechanism. 1,727,378; Sept. 10.
- Patraszewski, John, assignor to one-half to J. J. Rusch, Chicago, Ill. Window-washing device. 1,714,810; May 28.



- Patrician Corporation, The. (See Brosius, Edward E., assignor.)
- Patrick, Bennett J., Chicago, Ill., assignor to Bull Dog Motors Corporation, Dover, Del. Multiangular power transmission. 1,703,680; Apr. 9.
- Patrick, George D. (See Claybaugh, R. W., and Patrick.)
- Patrick, John W., Essendon, Melbourne, Australia. Electric fuse holder for automobiles. 1,737,329; Nov. 26.
- Patrick, Noble M. (See Horn, P. W., and Patrick.)
- Patrick, Victor H. (See Claybaugh, R. W., and Patrick, assignors.)
- Patriot Manufacturing Company. (See Ohler, Harry C., assignor.)
- Patten, Charles H., assignor to Rex Manufacturing Company, Providence, R. I. Pocket lighter. 1,736,358; Nov. 19.
- Patten, Ernest L., assignor to L. Candee & Company, New Haven, Conn. Blank-cutting machine. 1,701,082; Feb. 5.
- Patten, Ernest L., assignor to L. Candee & Company, New Haven, Conn. Apparatus for assembling footwear uppers. 1,714,618; May 28.
- Patten, John S., Madison, N. J., assignor to John S. Patten Engineering Company, Incorporated, New York, N. Y. Breather cover for fuel tanks. 1,730,237; Oct. 1.
- Patten, John S., Engineering Company. (See Patten, John S., assignor.)
- Patten, Julius, and W. Bangert, Duisburg, Germany. Headlight. 1,739,800; Dec. 17.
- Patten, Wellington F., Calypso, N. C. Basket. 1,707,565; Apr. 2.
- Patterson, Alfred B., Tulsa, Okla. Loading platform. 1,723,885; Aug. 6.
- Patterson, Charles E., Jacksonville, Ill. Back rest for invalid beds. 1,708,236; Apr. 9.
- Patterson, Clarence L. (See Kuen, E. A., and Patterson.)
- Patterson, Curtis J., Kansas City, and G. Harrel, Liberty, Mo., assignors, by mesne assignments, to Bakeries Service Corporation. Bread making. 1,722,677; July 30.
- Patterson, David, Spokane, Wash. Piano-teaching mechanism. 1,732,377; Oct. 22.
- Patterson, David H., jr. (See Rosener, L. S., and Patterson.)
- Patterson, Ernest L., Cross Plains, Tex. Lock-rod elevator. 1,703,014; Feb. 19.
- Patterson, Francis T. (See Bennett, Roger C., assignor.)
- Patterson, Franklin M., Pitman, N. J. Valve. 1,697,608; Jan. 1.
- Patterson, George M., Kansas City, Kans. Serving table. 1,740,831; Dec. 24.
- Patterson, Harry R., Poughkeepsie, N. Y., assignor to De Jon Electric Corporation. Control system for dynamo-electric machines. 1,736,982; Nov. 26.
- Patterson, Harry R., Poughkeepsie, N. Y., and C. F. Gilchrist, assignors to The Electric Auto-Lite Company, Toledo, Ohio. Combined timer and distributor. 1,703,319; Feb. 26.
- Patterson, James S., Abilene, Tex. Can opener. 1,702,948; Feb. 19.
- Patterson, James S., Abilene, Tex. Can opener. 1,702,949; Feb. 19.
- Patterson, John H. (See Biedt, R. E., and Patterson.)
- Patterson, John S., East Northport, N. Y. Rotatable laundry rack. 1,710,711; Apr. 30.
- Patterson, John S., East Northport, N. Y. Laundry-checking device. 1,722,014; July 23.
- Patterson, M. F., Dental Supply Co. (See Andresen, Lauritz B., assignor.)
- Patterson, Thomas A., assignor of one-half to W. E. Miller, Cleveland, Ohio. Liquid-dispensing apparatus. 1,720,145; July 9.
- Patterson, Thomas S., State College, Pa. Air washer. 1,708,587; Apr. 9.
- Patterson, Thomas S., Malaga, N. J. Soap-powder-dispensing device. 1,733,749; Oct. 29.
- Patterson, Walter C., Ontario, Calif., assignor to Edison Electric Appliance Company, Chicago, Ill. Molding machine. 1,717,245; June 11.
- Patterson, Walter D., Cedar Rapids, Iowa. Combination woodworking machine. 1,715,564; June 4.
- Patterson, William, Philadelphia, Pa. Garment hanger. 1,705,203; Mar. 12.
- Patterson, William B., Portland, Oreg. Golf-club-holding attachment for golf bags. 1,731,588; Oct. 15.
- Patterson, William L. (See Bausch, E., and Patterson.)
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical projection device. 1,727,900; Sept. 10.
- Patterson, William T., Sarcocoe, Mo. Insect destroyer. 1,721,872; July 23.
- Patterson, Williams S., assignor to Gereke-Allen Carton Company, St. Louis, Mo. Packing or shipping container. 1,735,876; Nov. 19.
- Patteson, Mark B., Corona, Calif., assignor to California Fruit Growers Exchange. Agent for the control of pests injurious to vegetation. 1,726,364; Aug. 27.
- Patti, Sebastian. (See Newton, George F., assignor.)
- Pattillo, Donald K., Fulton, J. H. MacMahon, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Operation of paper mills. 1,733,070; Oct. 22.
- Pattillo, Donald K., Fulton, J. H. MacMahon, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of paper. 1,733,071; Oct. 22.
- Pattillo, Donald K., Fulton, and J. H. MacMahon, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Production of paper. 1,737,330; Nov. 26.
- Patton, Ashley W., Milwaukee, assignor to The Drisole Tanning Company, Inc., Cudahy, Wis. Sole leather and producing the same. 1,712,518; May 14.
- Patton, Hal T., Cleveland, Ohio. Controlling system and valve apparatus therefor. 1,729,486; Sept. 24.
- Patton, Herbert F., assignor to A. D. Cook, Inc., Lawrenceburg, Ind. Well strainer. 1,722,965; July 30.
- Patton, William L., Austin, Tex. Player-piano-roll compressor. 1,712,163; May 7.
- Patz, Ernest O., Scarsdale, N. Y. Picking machine. 1,734,046; Nov. 5.
- Patzer, William E., Hastings, Nebr. Ice-cream measurer and dipper. 1,705,533; Mar. 19.
- Pauchec, Jacob, New York, N. Y. Frame construction. 1,732,416; Oct. 22.
- Pauk, Henry E., St. Louis, Mo. Refrigerator display case. 1,713,620; May 21.
- Paul, George F. C., St. Paul, Minn. Radiator-cap ornament. Des. 77,704; Feb. 12.
- Paul, Henry F., Astoria, N. Y. Nut lock. 1,734,743; Nov. 5.
- Paul, Ira M., Brooklyn, N. Y., assignor to Metal & Thermit Corporation, Carteret, N. J. Recovering vanadium. 1,696,923; Jan. 1.
- Paul, Julius, assignor of fifty per cent to R. M. Sellwood, Duluth, Minn. Brake. 1,741,875; Dec. 31.
- Paul, Otto, New York, N. Y. Curtain holder. 1,711,463; Apr. 30.
- Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Electric apparatus. 1,706,810; Mar. 26.
- Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Transformer. 1,708,775; Apr. 9.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Draft attachment for agricultural implements. 1,702,615; Feb. 19.
- Paul, William L., Berkeley, Calif., assignor to Deere & Company, Moline, Ill. Plow. 1,710,489; Apr. 23.
- Pauli, Heinrich, assignor to the firm Dr. Erich F. Huth Ges. m. b. H., Berlin, Germany. High-frequency generating and amplifying system. 1,741,710; Dec. 31.
- Pauli, William, North Sacramento, Calif. Rubber-band catapulting toy. 1,716,003; June 4.
- Paulin, Emile, Central Falls, R. I. Circuit closer. 1,707,873; Apr. 2.
- Paulin, Josua G., Stockholm, Sweden. Instrument for measuring variable forces. 1,737,331; Nov. 26.
- Pauling, Harry, Berlin, Germany. Combustion of ammonia. 1,722,339; July 30.
- Paul, Archibald W., and W. T. Davis, assignors to Wheeling Stamping Company, Wheeling, W. Va. Machine for trimming metal caps. 1,732,529; Oct. 22.
- Paul, James, and A. A. Miller, assignors to The Eagle Manufacturing Company, Wellsburg, W. Va. Container. 1,734,528; Nov. 5.
- Paul, Roy B., Seattle, Wash. Atomizing device. Re17,495; Nov. 19.
- Paul, Wallace H., assignor to Dunlop Rubber Company Limited, Fort Dunlop, Birmingham, England. Rim for pneumatic tires. 1,718,874; June 25.
- Paulson, Arthur, assignor to Christian Iverson, Inc., New York, N. Y. Filing device. 1,707,969; Apr. 2.
- Paulson, Arthur, assignor to Christean Iverson, Inc., New York, N. Y. Paste jars. 1,715,144; May 28.
- Paulson, Arthur, assignor to Christean Iverson, Inc., New York, N. Y. Paste jar. 1,734,444; Nov. 5.
- Paulson, August, Reedley, Calif. Mouthpiece. 1,704,147; Mar. 5.
- Paulson, Bernard J., Wauwatosa, Wis. Toy building construction outfit. 1,701,190; Feb. 5.
- Paulson, George M., Astoria, N. Y., assignor to The B. G. Corporation. Spark plug. 1,719,848; July 9.
- Paulson, Leo B., San Diego, Calif. Milk-can-containing pitcher. 1,710,239; Apr. 23.
- Paulson, Leo B., San Diego, Calif. Hinge. 1,722,156; July 23.
- Paulson, Nels, Evanston, Ill. Toy dog. Des. 78,781; June 18.
- Paulus, Charles L. (See Kauch, R., and Paulus.)
- Paulus, Charles L. (See Russell, H. O., and Paulus.)
- Paulus, Charles L., and R. Kauch, Dayton, Ohio. Cover for gun sights. 1,710,109; Apr. 23.
- Paulus, Max G., Casper, Wyo., assignor to Standard Oil Company, Whiting, Ind. Sweetening hydrocarbon oils. 1,716,973; June 11.
- Paulus, Roy, Flushing, assignor to Paulus-Ullmann Printing Corporation, New York, N. Y. Fastening device. 1,740,262; Dec. 17.
- Paulus-Ullmann Printing Corporation. (See Paulus, Roy, assignor.)
- Pauly, Emile, Paris, France. Making hollow monolithic building elements. 1,699,568; Jan. 22.
- Pauly, John P., assignor to Measure-Rite Coffee Company, Kansas City, Mo. Coffee product and making same. 1,723,069; Aug. 6.
- Pauly, Robert C., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing and ironing machine. 1,727,890; June 18.
- Pauly, William, Chicago, Ill. Decarbonizer for automobile engines. 1,722,442; July 30.



- Paur, John, Buffalo, N. Y. Tobacco-smoking device. 1,719,721; July 2.
- Pausser, Arnaud E., Philadelphia, Pa. Hair-curling device. 1,740,313; Dec. 17.
- Paust, Lawrence R., Joliet, Ill. Radio apparatus. 1,697,512; Jan. 1.
- Pavao, John J. (See Rodrigues, Manuel H., assignor.)
- Pavey, William B., Winnetka, assignor to Economy Engineering Company, Chicago, Ill. Rocker barrel stand. 1,716,281; June 4.
- Pavia, Luigi, Allentown, Pa. Shuttle. 1,703,454; Feb. 26.
- Pavia, Luigi, Allentown, Pa. Shuttle. 1,735,544; Nov. 12.
- Pavitt, William H., Brooklyn, assignor, by mesne assignments, to Wilputte Coke Oven Corporation, New York, N. Y. Still construction. 1,723,657; Aug. 6.
- Pavlicek, Joseph, Monevideo, Minn. Corn lifter. 1,707,992; Apr. 9.
- Pavlik, Frank, Chicago, Ill. Smoke-cleaning device. 1,725,100; Aug. 20.
- Pawelski, Adam, Brooklyn, N. Y. Clothesline hanger. 1,716,282; June 4.
- Pawlikowski, Rudolf, Goerlitz, Germany. Device for working combustion engines with liquid or pulverized fuels. 1,719,023; July 2.
- Pawlikowski, Rudolf, Goerlitz, Germany. Cylinder for piston engines. 1,732,856; Oct. 22.
- Pawling, George F., Philadelphia, Pa. Skeletonized joist. 1,711,284; Apr. 30.
- Pawnee Wood Heel Co. (See Dozier, L. D., Green, and Grindler, assignors.)
- Pawsat, Ewald F., assignor to The Wald Manufacturing Company, Maysville, Ky. Mirror for automobiles. 1,716,793; June 11.
- Pawsat, Ewald F., Maysville, Ky., assignor to Wald Manufacturing Company. Flash-light support. 1,735,212; Nov. 12.
- Paxson, Homer D. (See Vandervoort, F. M., and Paxson.)
- Paxson, Walter R., Glenside, assignor, by mesne assignments, to A. H. Fox Gun Company, Philadelphia, Pa. Cartridge for toy guns. 1,735,086; Nov. 12.
- Paxton, Clifford M., Piermont, N. Y., assignor to Paxton Corporation of America. Marine propulsion means. 1,698,822; Jan. 15.
- Paxton, Clifford M., Piermont-on-Hudson, N. Y., assignor to Paxton Corporation of America. Propelling and maneuvering system for vessels. 1,702,222; Feb. 12.
- Paxton Corporation of America. (See Paxton, Clifford M., assignor.)
- Paxton, William P., assignor to Southern Textile Machinery Company, Paducah, Ky. Sewing machine. 1,725,825; Aug. 27.
- Payen, J. Limited. (See Griffith, Patrick G., assignor.)
- Payette, Amy C., Glendale, Calif. Bedclothes holder for camp cots. 1,706,588; Mar. 26.
- Payne, Amos O., Wichita, Kans. Filler spout. 1,725,826; Aug. 27.
- Payne, Arthur C., Kew Gardens, assignor to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Making projection screens. 1,715,381; June 4.
- Payne, Caleb, assignor to Gypsum Engineering & Manufacturing Co., Chicago, Ill. Manufacture of veneered blocks. 1,709,035; Apr. 16.
- Payne, Caleb, assignor to Gypsum Engineering & Manufacturing Company, Chicago, Ill. Method and apparatus for making wall board. 1,720,855; July 16.
- Payne, Caleb, assignor to Gypsum Engineering & Manufacturing Co., Chicago, Ill. Wall board. 1,720,856; July 16.
- Payne, Caleb, assignor to Gypsum Engineering and Manufacturing Co., Chicago, Ill. Apparatus for making wall board. 1,721,972; July 23.
- Payne, Caleb, assignor to Gypsum Engineering & Manufacturing Co., Chicago, Ill. Manufacture of wall board. 1,735,877; Nov. 19.
- Payne, Charles A., Syracuse, N. Y. Combined candle snuffer and lighter. 1,740,623; Dec. 24.
- Payne, Charles H., Cincinnati, Ohio. Scrapbook. 1,724,040; Aug. 13.
- Payne, Charles T., Grand Rapids, Mich. Making miniature log houses. 1,710,947; Apr. 30.
- Payne, Clarence Q., New York, N. Y. Producing antifriction bushings. 1,731,790; Oct. 15.
- Payne, Earl, Springville, assignor to The Borden Company, New York, N. Y. Apparatus for transferring powder and the like. 1,721,258; July 16.
- Payne, Elmer H., Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind. Refining hydrocarbon oil. 1,716,974; June 11.
- Payne, Elmer H., and S. A. Montgomery, Wood River, Ill., assignors to Standard Oil Company, Whiting, Ind. Treatment of emulsion oils. 1,726,309; Aug. 27.
- Payne, Elmer H., and S. A. Montgomery, Wood River, Ill., assignors to Standard Oil Company, Whiting, Ind. Treatment of emulsion oils. 1,726,310; Aug. 27.
- Payne, Frank E., Chicago, Ill. Packing. 1,714,725; May 28.
- Payne, Frederick W. (See Faber, Henry B., assignor.)
- Payne, Jesse M., and L. W. Hodge, Phenix City, Ala. Thread holder. 1,740,200; Dec. 17.
- Payne, John D., New York, N. Y. Figure wheeled toy. 1,701,243; Feb. 5.
- Payne, Marshall J., assignor to The Payne Valve Corporation, Staunton, Va. Tire valve. 1,726,762; Sept. 3.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin for electrical weft detectors. 1,703,897; Mar. 5.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread holder and tension device for weft-replenishing looms. 1,703,898; Mar. 5.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in transferer. 1,711,615; May 7.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in loom transferer arm. 1,711,616; May 7.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off mechanism for looms. 1,722,856; July 30.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Drive for pattern mechanism for looms. 1,722,972; July 30.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slipping-weft detector. 1,738,198; Dec. 3.
- Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Revoker for regularly moving transferer arms. 1,739,172; Dec. 10.
- Payne, Oscar V., and R. G. Turner, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for looms. 1,726,763; Sept. 3.
- Payne, Thomas F., Pittsburgh, Pa. Sanitary water-closet. 1,732,530; Oct. 22.
- Payne Valve Corporation, The. (See Payne, Marshall J., assignor.)
- Payne, Whitney, et al. (See Ebert, Joseph, assignor.)
- Paynter, Horace J. (See Smith, E. L., and Paynter.)
- Payson, Aurin E., Norwich, Conn. Temperature-retaining receptacle. Des. 73,224; Apr. 9.
- Payson, Aurin E., and M. P. Wetmore, Norwich, Conn. Bottle casing. 1,712,228; May 7.
- Payson, Aurin E., and M. P. Wetmore, Norwich, Conn. Dispensing device. 1,723,070; Aug. 6.
- Payson Manufacturing Company, The. (See Harris, Elijah P., assignor.)
- Payton, Bernard H., Providence, R. I. Arm rest. 1,715,862; June 4.
- Payzant, Henry H., Everett, Wash. Dry kiln. 1,711,100; Apr. 30.
- Payzant, John A., Schuyler, Nebr. Thermostat alarm switch. 1,729,962; Oct. 1.
- Peabody Engineering Corporation. (See Dyer, Horace T., assignor.)
- Peabody Engineering Corporation. (See London, William J. A., assignor.)
- Peabody Engineering Corporation. (See Peabody, Ernest H., assignor.)
- Peabody, Ernest H., Pelham Manor, assignor to Peabody Engineering Corporation, New York, N. Y. Air register for fuel burners. 1,698,169; Jan. 8.
- Peabody, Ernest H., Pelham Manor, assignor to Peabody Engineering Corporation, New York, N. Y. Fuel burner. 1,738,199; Dec. 3.
- Peabody, Frank L., Quincy, Mass. Display apparatus. 1,710,785; Apr. 30.
- Peabody, James A., Evanston, Ill., assignor to General Railway Signal Company. Automatic train-control system. 1,730,825; Oct. 8.
- Peacey, William H., Cheltenham, England. Rotary valve for fluid-pressure engines. 1,709,036; Apr. 16.
- Peachey, John D., Floranada, Fla. Combination shoe and stocking. 1,736,013; Nov. 19.
- Peacock, Charles M., Chicago, Ill. Time switch. 1,706,410; Mar. 26.
- Peacock, David W. K. (See Wood, Harry L., assignor.)
- Peacock, Frank, Croyden, near Sydney, New South Wales, Australia. Bumper for automobiles. 1,726,191; Aug. 27.
- Peacock, Howard H., West Collingswood, N. J. Clamping dog for lathes. 1,731,216; Oct. 8.
- Peacock, William, assignor to Woolworth Chemical Company, Lititz, Pa. Mirror. 1,736,667; Nov. 19.
- Peale, Rembrandt, et al., trustees. (See Davis, Kenneth, assignor.)
- Peale, Rembrandt, junior, et al., trustees. (See Davis, Kenneth, assignor.)
- Peale, Richard, et al., trustees. (See Davis, Kenneth, assignor.)
- Pealer, Samuel D., Chagrin Falls, Ohio. Miter box. 1,733,200; Dec. 3.
- Pearce, Edward I. (See McGinnis, L., and Pearce.)
- Pearce, Edwin S., Indianapolis, Ind. Apparatus for and method of treating oil. 1,698,273; Jan. 8.
- Pearce, Edwin S., Indianapolis, Ind. Method of and apparatus for impregnating fibrous materials with liquids. 1,723,747; Aug. 6.
- Pearce, Edwin S., and E. C. Karibo, Indianapolis, Ind. Indicating apparatus for locomotive back pressure. 1,737,199; Nov. 26.
- Pearce, Edwin S., R. W. Retterer, and E. C. Karibo, Indianapolis, Ind. Operating locomotives. 1,735,087; Nov. 12.
- Pearce, Edwin S., Indianapolis, Ind., assignor to The American Laundry Machinery Company, Norwood, Ohio. Waste-reclamation system. 1,713,711; Mar. 21.
- Pearce, Frank W., Columbus, Ohio. Automobile visor. 1,735,177; Nov. 12.



- Pearce, George H., assignor, by mesne assignments, to himself and A. E. E. Jones, Worcester, England. Glare visor or sun shield. 1,734,096; Nov. 5.
- Pearce, John E. (See Dennis, C. J., and Pearce.)
- Pearce, Leonard G., Beaver, Pa. Lifting tongs. 1,733,236; Oct. 29.
- Pearce, Louis M., assignor to Texas Iron Works Sales Corporation, Houston, Texas. Pipe holder. 1,708,322; Apr. 9.
- Peardon, Henrietta E. (See Hepner, Jacob Q., assignor.)
- Pearl, Allen S., Chicago, Ill. High-tension cut-out and the like. 1,732,857; Oct. 22.
- Pearl, Leonard S., Revere, assignor of forty-five one-hundredths to T. F. Ryan, Medford, Mass. Device for cleaning meat from bones. 1,741,332; Dec. 31.
- Pearl, Sherman S., Stehekin, Wash. Trap. 1,735,786; Nov. 12.
- Pearl, William H., Indianapolis, Ind. Strain insulator. 1,721,259; July 16.
- Pearlman, Israel P., Providence, R. I. Display cabinet. Des. 79,980; Nov. 26.
- Pearlman, Israel P., Providence, R. I. Store front. Des. 80,042; Dec. 3.
- Pearlman, Victor S., Chicago, Ill. Table lamp. 1,699,710; Jan. 22.
- Pearmain, William J., assignor to Twin Disc Clutch Company, Racine, Wis. Clutch. 1,712,676; May 14.
- Pearmain, William J., assignor to The Twin Disc Clutch Company, Racine, Wis. Clutch. 1,724,361; Aug. 13.
- Pearmain, William J., assignor to The Twin Disc Clutch Company, Racine, Wis. Clutch. 1,725,016; Aug. 20.
- Pearmain, William J., assignor to The Twin Disc Clutch Company, Racine, Wis. Clutch. 1,731,791; Oct. 15.
- Pearne, Frank D., deceased, Chicago, Ill.; M. K. Pearne, executrix. Radioreceiver. 1,711,745; May 7.
- Pearne, Frank D., deceased, Chicago; I. R. Metcalf, Glen Ellyn, Ill., and W. Howey, New York, N. Y.; M. K. Pearne, executrix. Machine for producing printing plates. 1,719,621; July 2.
- Pearne, Frank D., assignor, by mesne assignments, to Wire Transmitting Corporation, Chicago, Ill. Selective relay. 1,708,737; Apr. 9.
- Pearne, Martha K., executrix. (See Pearne, Frank D.)
- Pearne, Martha K., executrix. (See Pearne, F. D., Metcalf, and Howey.)
- Pearsall, Charles M., Ridgewood, N. J. Spark plug. 1,700,644; Jan. 29.
- Pearsall, William, assignor to Bigelow-Hartford Carpet Company, Thompsonville, Conn. Pile fabric. 1,714,104; May 21.
- Pearsall, William A., jr., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Protective covering. 1,701,627; Feb. 12.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Tractor sweep rake. 1,729,084; Sept. 24.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Mowing machine. 1,734,896; Nov. 5.
- Pearson, Erik A., Portland, Oreg. Keeping milk cool in cans while in transit. 1,728,572; Sept. 17.
- Pearson, Erik A., Portland, Oreg. Keeping milk and similar substances or liquids cool while in transit. 1,731,539; Oct. 15.
- Pearson, Gardner W. (See Hooke, F. G., and Flynn, assignors.)
- Pearson, Gardner W., Lowell, Mass. Glare preventer for automobile windshields. 1,731,172; Oct. 8.
- Pearson, Gustav C., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Tool retainer. 1,719,079; July 2.
- Pearson, John T., and R. H. Olley, assignors to Crouse-Hinds Company, Syracuse, N. Y. Canopy conduit outlet box. 1,701,117; Feb. 5.
- Pearson, John T., and R. H. Olley, assignors to Crouse-Hinds Company, Syracuse, N. Y. Joint for conduits. 1,702,667; Feb. 19.
- Pearson, John T., and R. H. Olley, assignors to Crouse-Hinds Company, Syracuse, N. Y. Cover for conduit outlet boxes. 1,706,811; Mar. 26.
- Pearson, Lawrence J., Wyncote, assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery plate and making same. 1,716,320; June 4.
- Pearson Manufacturing Company. (See Dary, James A., assignor.)
- Pearson, Olof, Wahoo, Nebr. Submerged water heater. 1,697,018; Jan. 1.
- Pearson, Oscar A., Oak Park, assignor to Thordarson Electric Manufacturing Company, Chicago, Ill. Coil-cutting machine. 1,741,711; Dec. 31.
- Pearson, Otto R., and C. V. Anderson, Hibbing, Minn. Railroad crossing. 1,710,030; Apr. 23.
- Pearson, Paul E., and M. L. Dodge, assignors to Seattle Astoria Iron Works, Seattle, Wash. Applying can closures. 1,740,872; Dec. 24.
- Pearson, Ragnar, Chicago, Ill. Safety check valve. 1,721,746; July 23.
- Pearson, Robert D., Los Angeles, Calif. Lens. 1,716,321; June 4.
- Pearson, Roy S., Chicago, Ill. Mechanical movement. 1,710,002; Apr. 23.
- Pearson, Roy S., Chicago, Ill. Traffic-signalling device. 1,710,003; Apr. 23.
- Pearson, Swan, assignor of one-half to O. L. Golladay, Youngstown, Ohio. Attachment for writing implements. 1,710,589; Apr. 23.
- Pearson, Thomas, Syracuse, N. Y. Fountain pen. 1,739,325; Dec. 10.
- Pearson, Thomas, and H. E. Garber, Long Beach, Calif. Writing sign. 1,737,092; Nov. 26.
- Pearsons, George T., New York, N. Y. Fire-fighting device. 1,703,205; Feb. 26.
- Pease, Henry E., assignor to Standard Show Card Service, Inc., Chicago, Ill. Interchangeable card sign. 1,735,836; Nov. 12.
- Pease, Isaac M., Cincinnati, Ohio, assignor to The Ohio Truss Company. Obesity belt. 1,736,128; Nov. 19.
- Pease, John W., Rochester, N. Y. Ladder. 1,729,963; Oct. 1.
- Pease, John W., assignor to W. N. Pease, Rochester, N. Y. Apple-paring machine. Re17,307; May 28.
- Pease, Oliver S., Liverpool, N. Y. Split-tire-rim contracting and expanding machine. 1,723,559; Aug. 6.
- Pease, Orville E., and N. G. Joseph, New York, N. Y. Adjustable awning arm. 1,705,266; Mar. 12.
- Pease, Reginald M., Brooklyn, assignor to Bell Telephone Laboratories, Inc., New York, N. Y. Power-line carrier wave signaling system. 1,719,485; July 2.
- Pease, Winnifred N. (See Pease, John W., assignor.)
- Peat Products Company. (See Roth, Charles C., assignor.)
- Pecano Manufacturing Company. (See Hess, Elam G., assignor.)
- Pecard, Felix P., Lena, Wis. Receptacle-filling machine. 1,740,032; Dec. 17.
- Peckkranz, Rodolphe, Geneva, Switzerland. Filter-press electrolyzer. 1,721,407; July 16.
- Peck Brothers & Company, The. (See Newton, William G., assignor.)
- Peck, Caid H., Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Squeeze riveter. 1,721,279; July 16.
- Peck, Frank G., New Haven, Conn. Lifting tongs. 1,737,614; Dec. 3.
- Peck, Fred G., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Metallic packing. 1,734,019; Oct. 29.
- Peck Hannaford & Peck Company, The. (See Peck, Robert E., assignor.)
- Peck, Jess W., New York, N. Y., assignor to Riley Stoker Corporation, Worcester, Mass. Chain grate stoker. 1,700,707; Jan. 29.
- Peck, John T., Altadena, Calif. Wire wrapping and tying machine. 1,728,442; Sept. 17.
- Peck, Kenneth L. (See Deimler, Ralph W., assignor.)
- Peck, Orton A., Keene, N. H. Milk cooler. 1,714,235; May 21.
- Peck, Robert E., assignor to The Peck Hannaford & Peck Company, Cincinnati, Ohio. Ventilator canopy. 1,720,400; July 9.
- Pecker, Harry, Lynn, Mass. Key holder. 1,715,565; June 4.
- Peckham, Samuel C., Greenville, Tex. Candy-making machine. 1,707,066; Mar. 26.
- Pecz, Kornél, and K. Rejtő, Budapest, Hungary, assignors to Nathan Manufacturing Company, New York, N. Y. Water purifier. 1,703,095; Mar. 12.
- Peden, James R., Greenville, S. C. Camera. 1,725,966; Aug. 27.
- Peden, Joseph B., Johnstown, Pa. License-plate holder. 1,701,419; Feb. 5.
- Pedersen, A. C., et al. (See Kelly, William H., assignor.)
- Pedersen, Arthur, Bloomfield, N. J. Holder for combs. 1,721,165; July 16.
- Pedersen, Arthur Z., West Orange, N. J., assignor to Peploid Corporation, New York, N. Y. Porous acid-resisting materials. 1,732,140; Oct. 15.
- Pedersen, Florian B., Alameda, assignor of one-fourth to A. E. Andersen, Oakland, Calif. Cutting device. 1,715,210; May 28.
- Pedersen, Hjalmar S., Los Angeles, Calif. Combined sheet and envelope. 1,729,400; Sept. 24.
- Pedersen, J. N., et al. (See Kelly, William H., assignor.)
- Pedersen, James C., and G. P. Nielsen, International Falls, Minn. Flour-bag rack. 1,699,199; Jan. 15.
- Pedersen, John D., Springfield, Mass. Cartridge clip. 1,732,949; Oct. 22.
- Pedersen, John D., Springfield, Mass. Magazine rifle. 1,737,974; Dec. 3.
- Pedersen, Julius L., Escanaba, Mich. Scaffold. 1,714,044; May 21.
- Pedersen, Oscar A., New York, N. Y. Method and apparatus for constructing building units. 1,700,512; Jan. 29.
- Pedersen, Oscar A., New York, N. Y. Building construction. 1,714,987; May 28.
- Pedersen, Thomas W., assignor to Oil Jack, Inc., New York, N. Y. Hydraulic jack. 1,708,893; Apr. 9.
- Pedersen, Thomas W., assignor to Oil Jack, Inc., New York, N. Y. Fluid-operated jack. 1,720,434; July 9.
- Pedersen, Thomas W., assignor to The Oil Jack Company, Inc., New York, N. Y. Hydraulic jack. 1,725,720; Aug. 20.
- Pederson, Nichol A., Somerville, Mass. Musical instrument. 1,721,710; July 23.
- Pedigo, Edward A., Okolona, Ky. Water heater. 1,729,641; Oct. 1.



- Pedley, Frank B., Pomona, Calif., assignor of one-half to Pomona Valley Machine Works. Rotary hand tool for cutting plaster casts. 1,716,662; June 11.
- Pedley, George W., Algona, Iowa. Wind wheel. 1,709,229; Apr. 16.
- Peebles, Joseph L., assignor of one-half to W. Weimer, Okmulgee, Okla. Automobile awning bracket. 1,739,518; Dec. 17.
- Peebles, Thomas A., Pittsburgh, Pa. Pressure-control system. 1,703,455; Feb. 26.
- Peebles, Thomas A., Pittsburgh, Pa. Fuel-supply system. 1,710,839; Apr. 30.
- Peek, Alva J., Paterson, N. J., assignor to Carpet Device Corp., New York, N. Y. Winding machine. 1,737,269; Nov. 26.
- Peek, Clifford F., Chesterton, Ind. Side brass for rolling-mill housings. 1,740,781; Dec. 24.
- Peek, Frank W., jr., Pittsfield, Mass., assignor to General Electric Company. Electric discharge device. 1,717,850; June 18.
- Peek, Frank W., jr., Pittsfield, Mass., assignor to General Electric Company. Electric discharge device. 1,734,917; Nov. 5.
- Peek, Frank W., jr., Pittsfield, Mass., assignor to General Electric Company. Insulating support. 1,741,333; Dec. 31.
- Peek Frean & Company Limited. (See Rondolin, Laurent, assignor.)
- Peek, Sanford C., East Aurora, N. Y. Game device. 1,728,770; Sept. 17.
- Peel, Charles W. D., Dartford, England. Cord grip for electrical apparatus. 1,706,898; Mar. 26.
- Peel, Peter J., Chicago, Ill. Apparatus for the application of electric hydro-physio therapeutics. 1,740,624; Dec. 24.
- Peelle Company, The. (See Feldman, Harry, assignor.)
- Peelle, Hereward J. (See Blackburn, J., Albrecht, and Peelle.)
- Peelle, Charles W., New York, N. Y., assignor to Richmond Fireproof Door Company, Richmond, Ind. Elevator door. 1,704,901; Mar. 12.
- Peelle Company, The. (See Feldman, Harry, assignor.)
- Peelle Company, The. (See Peelle, Robert S., assignor.)
- Peelle Company, The. (See Saurer, Paul R., assignor.)
- Peelle, Robert S., New York, assignor to The Peelle Company, Brooklyn, N. Y. Elevator door. 1,708,953; Apr. 16.
- Peelle, Robert S., Hollis, assignor to The Peelle Company, Brooklyn, N. Y. Warehouse door. 1,709,872; Apr. 23.
- Peelle, Robert S., Hollis, assignor to The Peelle Company, New York, N. Y. Electric interlock for elevator doors. 1,713,917; May 21.
- Peelle, Robert S., assignor to The Peelle Company, New York, N. Y. Actuating mechanism for full-automatic elevator doors. 1,715,382; June 4.
- Peelle, Willis J., Chicago, Ill. Jar-capping machine. 1,704,405; Mar. 5.
- Peelle, Willis J., Chicago, Ill. Operating on jar covers. 1,722,763; July 30.
- Peer, Edward S., Los Angeles, Calif. Safety-deposit receptacle. 1,714,236; May 21.
- Peer, Richard W., East Orange, N. J., and P. A. Sawyer, New York, N. Y. Manufacturing boots and shoes. 1,706,126; Mar. 19.
- Peerless Foundry Company, The. (See Rogers, Earl F., assignor.)
- Peerless Ice Machine Company. (See Kritzer, Richard W., assignor.)
- Peerless Machinery Company, The. (See Lautenschlager, William F., assignor.)
- Peerless Machinery Company, The. (See Spry, William M., assignor.)
- Peerless Machinery Company. (See Trinder, Wallace S., assignor.)
- Peerless Manufacturing Company. (See Jones, Lawrence, jr., assignor.)
- Peerless Manufacturing Co. (See Loeser, Rudolph C., assignor.)
- Peerless Motor Car Corporation. (See Slack, Frederic W., assignor.)
- Peerless Products Company. (See Field, Herbert D., assignor.)
- Peerless Roll Leaf Co. (See Grupe, William F., assignor.)
- Peerless Roll Leaf Co. (See Schneider, B. R., and Wickwire, assignors.)
- Peerless Sample Card Co. (See Domber, Joseph, assignor.)
- Peerless Springs, Inc. (See Kiwi, Walter, assignor.)
- Peerless Tube Company. (See Neidlinger, George H., assignor.)
- Peerless Wire Goods Company, The. (See Snyder, Frank M., assignor.)
- Peers, Henry E., Los Angeles, Calif. Floating socket. 1,715,618; June 4.
- Peets, Wilbur J., Elizabeth, N. J., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinder. Re17,470; Oct. 22.
- Peffer, Alrid B., assignor to Imperial Machine Company, Philadelphia, Pa. Pan-greasing machine. 1,717,807; June 18.
- Peglar, Richard A., Toronto, Ontario, Canada. Pull rod. 1,725,672; Aug. 20.
- Pehrson, Adam H. (See Bojner, G., and Pehrson.)
- Pehrson, Adam H., Stockholm, Sweden. Extraction of substances from fluids. 1,732,819; Oct. 22.
- Pehrson, Alfred K., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Passageway drive mechanism. 1,706,362; Mar. 19.
- Pehrson, Alfred K., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Passageway drive mechanism for articulated car units. 1,706,363; Mar. 19.
- Pehrson, Alfred K., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Passageway drive mechanism for articulated car units. 1,706,364; Mar. 19.
- Pehrson, Alfred K., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Marker light for railway cars. 1,733,016; Dec. 3.
- Peiffer, William D., and O. D. Harris, Mishawaka, assignors of one-third to N. S. Amstutz, Valparaiso, Ind. Separable fastener. 1,741,789; Dec. 31.
- Peik, Paul G., Chicago, Ill. Automobile control mechanism. 1,738,089; Nov. 19.
- Peikert, Heinrich, Kalkberge, Germany. Transfer device for finely-ground material. 1,719,996; July 9.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for feeding molten glass. 1,721,487; July 16.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for feeding molten glass. 1,724,678; Aug. 13.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Manufacture of refractory compositions. 1,724,886; Aug. 13.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding molten glass. 1,727,379; Sept. 10.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for feeding molten glass. 1,731,681; Oct. 15.
- Peller, Karl E., West Hartford, assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Apparatus for obtaining charges of molten glass. 1,732,771; Oct. 22.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding molten glass. 1,735,837; Nov. 12.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for feeding molten glass. 1,738,923; Dec. 10.
- Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Feeding molten glass. 1,739,519; Dec. 17.
- Pein, Heinz, Bremen, Germany. Electric transmission of written characters. 1,715,781; June 4.
- Pein, Heinz, Bremen, Germany. Method and apparatus for transmitting written characters. 1,722,940; July 30.
- Peineke, Wilhelm, Berlin, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric individual drive for spindles. 1,721,280; July 16.
- Peinlich, Max, White Plains, assignor to Aljac Lighting Fixture Co., Inc., New York, N. Y. Pedestal base. Des. 78,169; Apr. 2.
- Peirce, Charles L., jr., Pittsburgh, Pa. Making insulator supports. 1,709,805; Apr. 16.
- Peirce, Charles L., jr., Pittsburgh, Pa. Insulator rack. 1,710,189; Apr. 23.
- Peirce, Charles L., jr., Pittsburgh, Pa., assignor of one-half to Hubbard and Company. Pole step. 1,740,873; Dec. 24.
- Peirce, Israel L., Pomona, Calif. Pocketbook. 1,741,071; Dec. 24.
- Peirce, John R., assignor to International Business Machines Corporation, New York, N. Y. Accounting machine. 1,701,053; Feb. 5.
- Peirce, John R., assignor to Computing-Tabulating-Recording Co., New York, N. Y. Accounting machine. 1,741,201; Dec. 31.
- Peirce, Joseph O., and W. T. Reddish, assignors to The Twitchell Process Company, Cincinnati, Ohio. Isolating cellulose. 1,703,830; Feb. 26.
- Peirce, Mead, assignor of one-fourth to F. J. Francis and one-fourth to D. J. Davis, East Palestine, Ohio. Hanger bracket for trolley-wire guards. 1,704,990; Mar. 12.
- Peirce, William B., Coraopolis, assignor to Pittsburgh Screw & Bolt Company, Pittsburgh, Pa. Metal-working machinery. 1,719,446; July 2.
- Peirce, Willis M., and E. A. Anderson, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Mechanically-worked zinc product. 1,716,599; June 11.
- Peiseler, Alfred, Remscheid-Haddenbach, Germany. Production of saw blades. 1,732,692; Oct. 22.
- Pekowsky, Louis I., New York, N. Y. Cloth hat. 1,710,188; Apr. 23.
- Pekowsky, Louis I., New York, N. Y. Cloth cap. 1,717,169; June 11.
- Pelco Auto Products, Inc. (See Pelletier, Henry E., assignor.)
- Peler, Harry L. (See Isom, E. W., Herthel, and Pelzer.)
- Pell, Eric J., Chicago, Ill. Fluid meter. 1,715,946; June 4.
- Pellegrino, Constantino, et al. (See Raso, Dante, assignor.)
- Pellegrino, Vincenzo, Rye, N. Y. Summer hat. 1,704,576; Mar. 5.
- Pelletier, Frank, New York, N. Y. Ice retainer for water pitchers. 1,717,170; June 11.



- Pelletier, Henry E., Jersey City, N. J., assignor to Pelco Auto Products, Inc., New York, N. Y. Filter. 1,730,475; Oct. 8.
- Pelletie, Robert S., assignor to American Road Machinery Company, Ins., Kennett Square, Pa. Road machine. 1,704,922; Mar. 12.
- Pelletie, Robert S., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Tractor snowplow. 1,704,923; Mar. 12.
- Fellow, Charles S., Detroit, Mich. Nut socket. 1,722,390; July 30.
- Pelon, Henry G. (See Lankheet, Sander, assignor.)
- Pelot, Frank D. (See Moore, L. G., and Pelot.)
- Pelot, Frank D., Dallas, Tex. Shipping insecticide-container spray gun. 1,699,016; Jan. 15.
- Pelouze Manufacturing Company. (See Schultz, Frank A., assignor.)
- Pelphrey, A. W., administrator. (See Pelphrey, Jesse W.)
- Pelphrey, Arthur W. (See Pelphrey, Jesse W. and A. W.)
- Pelphrey, Jesse W., deceased, Los Angeles, Calif.; A. W. Pelphrey, administrator. Vacuum head. 1,710,590; Apr. 23.
- Pelphrey, Jesse W., deceased, and A. W. Pelphrey, Los Angeles, Calif.; A. W. Pelphrey, administrator of Jesse W. Pelphrey, Deodorizer. 1,739,857; Dec. 17.
- Pels, Walter, New York, N. Y. Grotesque fixture. Des. 78,363; Apr. 23.
- Pels, Walter, New York, N. Y. Wedding ring. Des. 79,383; Sept. 10.
- Pels, Walter, New York, N. Y. Combination figure toy and paint box. 1,710,679; Apr. 23.
- Pelton, George E., assignor to Security Trust & Savings Bank, trustee, Los Angeles, Calif. Ink-transfer member and making the same. 1,732,187; Oct. 15.
- Pelton, George M., assignor to The Filer & Stowell Co., Milwaukee, Wis. Log turner. 1,710,031; Apr. 23.
- Pelton, George M., assignor to The Filer & Stowell Co., Milwaukee, Wis. Lumber-sawing machine. 1,740,998; Dec. 24.
- Pelton, George M., assignor to The Filer & Stowell Co., Milwaukee, Wis. Supporting the skid bars or like elements in sawmills. 1,741,951; Dec. 31.
- Pelton, John C., Santa Barbara, Calif., assignor to Improved Brick Corporation of Delaware. Automatic brick-making machine and apparatus. 1,740,711; Dec. 24.
- Peltz, Bohman, Finver, Inc. (See Finver, Louis, assignor.)
- Pelz, Max, Kirschau, Germany. Bucket with squeezing device. 1,708,323; Apr. 9.
- Pelzer, Harry L. (See Herthel, E. C., and Pelzer.)
- Pelzer, Harry L., Highland, Ind., assignor to Sinclair Refining Company, New York, N. Y. Refining of hydrocarbon oils. 1,740,625; Dec. 24.
- Pelzer, Harry L. (See Herthel, E. C., and Pelzer.)
- Pelzer, Harry L., Highland, Ind., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbon oils. 1,718,375; June 25.
- Pelzer, Harry L., Highland, Ind., assignor to Sinclair Refining Company, New York, N. Y. Apparatus for cracking hydrocarbon oils. 1,719,486; July 2.
- Peñate, Ernesto M. (See Fernandez, J. J. and Peñate.)
- Penberthy, Ernest, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Percussive tool. 1,700,418; Jan. 29.
- Penberthy, Ernest, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Lubrication of tools. 1,700,419; Jan. 29.
- Pence, Lefe V., El Paso, Tex. Supercharger and air cleaner. 1,712,091; May 7.
- Pence, Rosco O., Sterling, Kans. Brooder stove and ventilating hover. 1,717,851; June 18.
- Pence, Rosco O., Sterling, Kans. Brooder stove and hover. 1,732,167; Oct. 15.
- Pencil Mechanism Corporation. (See Feldman, Edward D., assignor.)
- Pencil Mechanism Corporation. (See Pollak, Abraham, assignor.)
- Pencil Mechanism Corporation. (See Woelm, Alfred, assignor.)
- Pender, Harold, and J. H. Mueller, Philadelphia, Pa. Electrical resistance and forming the same. 1,739,256; Dec. 10.
- Pendergrass, Ervin I., Ellerbe, N. C. Mail box. 1,731,682; Oct. 15.
- Pen Desk Set Company. (See Back, R., and Cooper, assignors.)
- Pen Desk Set Company. (See Blackman, Horace L., assignor.)
- Pen Desk Set Company. (See Guyot, Walter, assignor.)
- Pendexter, Edward F., Milford, Mass. Gear selecting and changing device. 1,709,148; Apr. 16.
- Pendleton, Arthur B., Greenwich, Conn., and F. D. Blauevelt, Montclair, N. J. Electric heater. 1,730,042; Oct. 1.
- Pendleton, Caleb F., Cheraw, S. C. Fertilizer grinder. 1,699,157; Jan. 15.
- Pendleton, Frank E., Montclair, N. J. Electrical timing device. 1,731,436; Oct. 15.
- Pendleton, Kenneth A., Los Angeles, Calif. Door lock. 1,707,413; Apr. 2.
- Pendock, Charles W., Milwaukee, assignor to Le Roi Company, West Allis, Wis. Internal-combustion engine. 1,734,181; Nov. 5.
- Penfold, Raymond C., and C. E. Fuller, New York, N. Y., assignors to American Equipment Company, Chicago, Ill. Pushing and up-edging apparatus. 1,733,237; Oct. 29.
- Penfold, Edward V., Hamburg, N. Y. Device for rendering ignition circuits of motor vehicles inoperative. 1,713,191; May 14.
- Pengilly, Joseph H., and V. Brown, assignors to Diamond Electrical Manufacturing Company, Inc., Los Angeles, Calif. Testing device. 1,739,913; Dec. 17.
- Penland, Claude E., Pendleton, Oreg. Agricultural implement. 1,724,143; Aug. 13.
- Penn, Albert, assignor to Penn Electric Switch Company, Des Moines, Iowa. Automatic air-volume-controlling device for water-storage tanks. Re17,342; June 25.
- Penn, Albert, assignor to Penn Electric Switch Co., Des Moines, Iowa. Pneumatic-control apparatus. 1,736,749; Nov. 19.
- Penn, Albert, assignor to Penn Electric Switch Co., Des Moines, Iowa. Close-range device. 1,738,481; Dec. 3.
- Penn Art Steel Works. (See Willson, Job H., assignor.)
- Penn Electric Switch Co. (See Knaak, George A., assignor.)
- Penn Electric Switch Company. (See Penn, Albert, assignor.)
- Penn Leather Company. (See Sax, Laurence, assignor.)
- Penn Metal Company. (See Levy, Barnett, assignor.)
- Penn, Oscar S., Sunbury-on-Thames, assignor to Roadless Traction, Limited, Hounslow, Middlesex, England. Endless track for vehicles. 1,724,961; Aug. 20.
- Penn, Thomas G., Chicago, Ill. Attachment for automobiles. 1,711,325; Apr. 30.
- Pennant Manufacturing Company Limited, The. (See Tryhorn, Wilfred, assignor.)
- Penner, Rudolph, Detroit, Mich. Safety iron holder. 1,735,088; Nov. 12.
- Penney, Early R., and J. W. Farrior, Warsaw, N. C. Locking device. 1,722,231; July 23.
- Penney, Loren W., Newton Highlands, and H. E. Child, Newton Upper Falls, assignors to Saco-Lowell Shops, Lowell, Mass. Carding machine. 1,726,919; Sept. 3.
- Penniman, Abbott L., Jr., Baltimore, Md. Fluid trap. 1,703,166; Feb. 26.
- Pennington Engineering Company. (See Pennington, Gordon R., assignor.)
- Pennington, Gordon R., Cleveland Heights, assignor to Pennington Engineering Company, Cleveland, Ohio. Shock absorber for motor vehicles. Re17,409; Aug. 20.
- Pennington, Harley D., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Pipe-working machine. 1,718,068; June 18.
- Pennington, Harry, Houston, Tex. Rotary rig. 1,741,140; Dec. 24.
- Pennington, James, Waringstown, Northern Ireland. Tablecloth or similar article. Des. 77,561; Jan. 22.
- Pennington, John R., et al. (See Belfield, Andrew M., assignor.)
- Pennington, John R. (See Pennington, William D. and J. R.)
- Pennington, Olive B., administratrix. (See Pennington, William D. and J. R.)
- Pennington, William D., et al. (See Belfield, Andrew M., assignor.)
- Pennington, William D. and J. R., deceased, Chicago, Ill.; O. B. Pennington, administratrix, assignor, by mesne assignments, to said W. D. Pennington. Clock-bank device. 1,740,955; Dec. 24.
- Pennock, Theodore E., assignor to Standard Automatic Machine Company, Rochester, N. Y. Bottle-filling-machine nozzle and support. 1,730,381; Oct. 8.
- Pennock, Theodore E., assignor to Standard Automatic Machine Company, Rochester, N. Y. Machine for applying container closures. 1,734,529; Nov. 5.
- Pennock, Theodore E., assignor to Standard Automatic Machine Company, Rochester, N. Y. Vacuum filling machine. 1,737,677; Dec. 3.
- Pennsylvania Chocolate Company. (See Stevenson, Frederick H., assignor.)
- Pennsylvania Coal Products Co. (See Davis, Alex B., assignor.)
- Pennsylvania Crusher Company. (See Battey W. A., Stine, and Borton, assignors.)
- Pennsylvania Crusher Company. (See Borton, George W., assignor.)
- Pennsylvania Crusher Company. (See Plimpton, John A., assignor.)
- Pennsylvania Crusher Company. (See Stine, James E., assignor.)
- Pennsylvania Engineering Company. (See Allen, Lee E., assignor.)
- Pennsylvania Pump & Compressor Company. (See Merwath, William C., assignor.)
- Pennsylvania Pump and Compressor Company. (See Raymond, Ward, assignor.)
- Pennsylvania Rubber Company. (See Gesalman, Fred W., assignor.)
- Pennsylvania Textile Mills, Inc. (See Biva, Lucien, assignor.)
- Penn-Union Electric Corporation. (See Stoeltzlen, Charles L., assignor.)
- Penny, David B., St. Paris, Ohio. Nut lock. 1,705,337; Mar. 12.
- Penny, Ira W., Mesa, Ariz. Land leveler. 1,710,110; Apr. 23.
- Pennzell Company, The. (See Suhr, C. L., and Zehrung, assignors.)
- Pen-O-Pencil Co. (See Kahn, Max, assignor.)



- Pénot, Robert E. M., La Saulaie pres Betz le Chateau, France. Automatic printing telegraph. 1,713,003; May 14.
- Pénot, Robert E. M., La Saulaie, par Betz le Chateau, France. Automatic transcriber and recorder of telegraphic signals. 1,723,250; Aug. 6.
- Penote, Augustus J., Cleveland, Ohio. Trench-excavating machine. 1,703,320; Feb. 26.
- Pensak, Julius. (See Lehman, G. I., and Pensak.)
- Pensotti, Ezio, Milan, Italy. Machine for molding baker's dough into loaves or cakes. 1,706,127; Mar. 19.
- Pentler, Sigmund J., and O. R. Short, Wausau, Wis. Shoe structure. 1,699,913; Jan. 22.
- Penton, Carl T., Buffalo, N. Y. Thermostatic switch. 1,704,406; Mar. 5.
- Peoples Gas By-Products Corporation. (See Guthrie, R. G., and Wozasek, assignors.)
- Peoples Natural Gas Company. (See McLane, Joseph A., assignor.)
- Peoples, Robert E., Valley Stream, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical testing system. 1,724,962; Aug. 20.
- Pepin, Joseph N., Chicago, Ill. Phonograph. 1,729,122; Sept. 24.
- Pepin, Joseph N., assignor to N. E. Alexander, Chicago, Ill. Brake mechanism. 1,705,677; Mar. 19.
- Pepin, Joseph N., assignor to Jewel Emblem Manufacturing Company, Chicago, Ill. Combination reproducer and receiver. 1,739,768; Dec. 17.
- Pepler, Thomas, Iowa City, Iowa. Piston ring. 1,726,714; Sept. 3.
- Peploid Corporation. (See Pedersen, Arthur Z., assignor.)
- Pepper, Byron J., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Locking device for dispensing apparatus. 1,709,592; Apr. 16.
- Pepper, Byron J., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Pump. 1,716,147; June 4.
- Pepper, Leonard, London, England. Lock. 1,707,922; Apr. 2.
- Peppin, Joseph, Sciota, N. Y. Antiaircraft screen. 1,712,164; May 7.
- Peppin, Joseph, Sciota, N. Y. Submarine vessel. 1,740,263; Dec. 17.
- Pequod Realty Corporation. (See Dalton, Nelson W., assignor.)
- Percich, Ben, Warren, Ohio. Rail connection. 1,702,668; Feb. 19.
- Percival, Julia B., Fairfield, Conn. Receptacle or hat bag. 1,730,898; Oct. 8.
- Percy, Earl N. (See Yard, W. S., and Percy.)
- Percy, Earl N., Oakland, Calif. Gas producer for motor vehicles. 1,716,084; June 4.
- Percy, Edwin H., Fort Bragg, Calif., assignor, by mesne assignments, to The Prescott Company. Power-operated dogging mechanism. 1,713,350; May 14.
- Perczian, Rudolph, Chicago, Ill. Waterless egg cooker. 1,711,247; Apr. 30.
- Perdreau, Jean, assignor to Société Anonyme Marinoni (Machines et Matériel pour l'Imprimerie et les Industries annexes), Paris, France. Compensating device. 1,721,408; July 16.
- Perdue, Fergus, Rochester, N. Y. Electrical signaling system. 1,708,430; Apr. 9.
- Pereira, Honorina, West New York, N. J. Automobile signal switch. 1,709,806; Apr. 16.
- Pereles, Joseph, Milwaukee, Wis. Soda-fountain fruit-squeezing appliance. Des. 78,122; Mar. 26.
- Perells, Walter J., Everett, Mass., assignor to Shell Development Company, San Francisco, Calif. Treatment of mineral oils by heat. 1,701,477; Feb. 5.
- Pereyra, Armando J., San Francisco, Calif. Tortilla machine. 1,732,567; Oct. 22.
- Perez, Henry L. (See Veitch, Thomas, assignor.)
- Pérez, Manuel H., San Pedro Sula, Cortez, Honduras, assignor to Adriana Guzman, New York, N. Y. Electric sadiron. 1,729,183; Sept. 24.
- Perfect Circle Company, The. (See Teetor, Macy O., assignor.)
- Perfect Laundry Machinery Company. (See Boyuls, Cecil H., assignor.)
- Perfect Point Pencil Corporation. (See Doeblér, Charles F., assignor.)
- Perfection Biscuit Company. (See Franke, John B., assignor.)
- Perfection Engineering Company. (See McCuen, Charles L., assignor.)
- Perfection Engineering Company. (See Sawtelle, Charles A., assignor.)
- Perfection Ice Scoring Machine Company, The. (See Roark, Robert H., assignor.)
- Perfection Mortiser Company, The. (See Ranney, William E., assignor.)
- Perfection Pack Company. (See Reshaw, George O., assignor.)
- Perfection Package Sealer Company. (See Uttz, William A. sr., assignor.)
- Perfection Stove Company. (See Chadwick, Lee S., assignor.)
- Perfection Stove Company. (See Chadwick, L. S., and Resek, assignors.)
- Perfection Stove Company. (See Chadwick, L. S., Resek, and Dahlstrom, assignors.)
- Perfection Stove Company. (See Resek, Marc, assignor.)
- Perfection Stove Company. (See Resek, M., and Dahlstrom, assignors.)
- Perfection Stove Company. (See Resek, M., Rehmer, and Dahlstrom, assignors.)
- Perfecto Gear Differential Co. (See Jackson, Ernest W., assignor.)
- Perfecto Gear Differential Co. (See Starr, Charles E., assignor.)
- Perham, Charles F., Tyngsboro, Mass. Cultivator. 1,697,582; Jan. 1.
- Perin, Oliver W., Cincinnati, Ohio. Account book. 1,717,621; June 18.
- Perine, Robert T. (See Nolen, T., and Perine.)
- Perior, George, Detroit, Mich. Roller screen. 1,738,608; Dec. 10.
- Peris, Nicholas U., and A. J. Burkhart, Florin, Pa. Combined antirattler and weather strip for windows. 1,722,941; July 30.
- Perkins, Alfred, Birmingham, England. Card and the like for classificatory systems. 1,739,087; Dec. 10.
- Perkins, B. F., & Son, Inc. (See Bidwell, Paul W., assignor.)
- Perkins-Campbell Company, The. (See Campbell, Wendell B., assignor.)
- Perkins-Campbell Company. (See Wiethorn, Fred H., assignor.)
- Perkins, Cecil K., New Brighton, Pa. Lawn mower. 1,716,085; June 4.
- Perkins, Charles H., Poughkeepsie, N. Y. Coin-controlled electrical apparatus. 1,739,858; Dec. 17.
- Perkins, Clarence, Eldora, Iowa. Horse muzzle and fly shield. 1,728,448; Sept. 17.
- Perkins, Edwin A., deceased, Jamaica, N. Y., H. C. Perkins, executrix, assignor to Norma-Hoffmann Bearings Corporation, Stamford, Conn. Spinning spindle. 1,732,614; Oct. 22.
- Perkins, Elmer E., Company. (See Perkins, Elmer E., assignor.)
- Perkins, Elmer E., assignor to Elmer E. Perkins Company, Bradley, Ill. Fireproof door. 1,725,931; Aug. 27.
- Perkins, Frances W. (See Perkins, Willis J., assignor.)
- Perkins, Frederick. (See Perkins, Louis E., assignor.)
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 79,844; Nov. 5.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 79,845; Nov. 5.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 79,907; Nov. 12.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 79,908; Nov. 12.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 79,909; Nov. 12.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 79,981; Nov. 26.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 80,043; Dec. 3.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 80,044; Dec. 3.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 80,045; Dec. 3.
- Perkins, George H., Wellesley, assignor to Powdrell & Alexander, Inc., Boston, Mass. Textile fabric. Des. 80,046; Dec. 3.
- Perkins Glue Company. (See Harvey, Ellery H., assignor.)
- Perkins, Helen C., executrix. (See Perkins, Edwin A.)
- Perkins, James F., Hayward, Calif. Washing machine. 1,714,888; May 28.
- Perkins, John A., Minneapolis, Minn. Grain separator. 1,710,380; Apr. 23.
- Perkins, Julian L., West Springfield, assignor to Perkins Machine and Gear Company, Springfield, Mass. Broach. 1,724,511; Aug. 13.
- Perkins, Julian L., West Springfield, and H. D. Croft, Springfield, assignors to Perkins Machine and Gear Company, West Springfield, Mass. Washing-machine tub. 1,730,238; Oct. 1.
- Perkins, Julian L., and H. D. Croft, assignors to Perkins Machine and Gear Company, Springfield, Mass. Machine for broaching spiral gears. 1,739,609; Dec. 17.
- Perkins, Laurence M., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Regulator. 1,703,207; Feb. 26.
- Perkins, Lester, Chicago, Ill., assignor to Yellow Jack-It Manufacturing Co. Lifting jack. 1,704,148; Mar. 5.
- Perkins, Louis E., Richmond Hill, assignor to F. Perkins, New York, N. Y. Lantern. 1,733,625; Oct. 29.
- Perkins, Louis E., Richmond Hill, assignor to Perkins Marine Lamp Corporation, Brooklyn, N. Y. Lamp. 1,733,626; Oct. 29.
- Perkins Machine and Gear Company. (See Croft, Hiram D., assignor.)
- Perkins Machine and Gear Company. (See Deloghia, Louis E., assignor.)
- Perkins Machine and Gear Company. (See Perkins, Julian L., assignor.)
- Perkins Machine and Gear Company. (See Perkins, J. L., and Croft, assignors.)



- Perkins Marine Lamp Corporation. (See Perkins, Louis E., assignor.)
- Perkins, Olive M. See Rodgers, Edward B., assignor.)
- Perkins, Robert L. (See Moses, F. G., Hess, and Perkins.)
- Perkins, Willis B., et al. (See Perkins, Willis J., assignor.)
- Perkins, Willis J., assignor to F. W. Perkins, Grand Rapids, Mich. Dispensing device. 1,707,566; Apr. 2.
- Perkins, Willis J., assignor to W. B. Perkins and B. M. Kidder, Grand Rapids, Mich. Aeroplane-handling structure. 1,738,261; Dec. 3.
- Perks, Charles, London, C. E. Shields, Clive Vale, and T. G. Murray, Teddington, England. Sun blind. 1,742,094; Dec. 31.
- Perks, George W. (See Baker, G. R., Epps, and Perks.)
- Perks, George W., Company. (See Gammeter, John R., assignor.)
- Perks, George W., Company, The. (See Perks, George W., assignor.)
- Perks, George W., assignor to The George W. Perks Company, Akron, Ohio. Mounting for abrasive wheels or the like. 1,700,331; Jan. 29.
- Perky, Scott H., Summit, N. J. Food product. 1,717,401; June 18.
- Perl, Alfred, Vienna, Austria, assignor to the firm Oscar Kohorn & Co., Chemnitz, Germany. Device for the wet treatments of banks and the like. 1,723,878; Sept. 17.
- Perla, Herman, and L. Baron, Brooklyn, N. Y. Loud-speaker. 1,737,864; Dec. 3.
- Perleth, Joseph L., and J. Coven, Dubuque, Iowa. Garment hanger attachment. 1,738,724; Dec. 10.
- Perling, Albert, Paris, Ky. Display device. 1,717,246; June 11.
- Perlman, Theodore H., Portland, Oreg. Diathermy method and apparatus. 1,697,325; Jan. 1.
- Perlmutter, Henry. (See Jackson, Joseph W., assignor.)
- Permolod Company, The. (See Dimeo, James J., assignor.)
- Permutit Company, The. (See Behrman, Abraham S., assignor.)
- Permutit Company, The. (See Cawley, George, assignor.)
- Permutit Company, The. (See Friend, R. O., and Partridge, assignors.)
- Permutit Company, The. (See Hughes, Walter J., assignor.)
- Permutit Company, The. (See Nordell, Carl H., assignor.)
- Permutit Company, The. (See Robertson, Edwin A., assignor.)
- Pernick, Jacob, et al. (See Lidsky, Louis, assignor.)
- Pernot, Frederick E., London, England. Laying and picking up submarine cables and the like. 1,703,777; Feb. 26.
- Pernot, Frederick E., London, England. Alternating-current signaling system. 1,707,814; Apr. 2.
- Pernot, Henri A., Paris, France. Closure for containers. 1,718,069; June 18.
- Pernot, Jules, Paterson, N. J. Box motion for looms. 1,704,337; Mar. 5.
- Pero, Sallie E., New York, N. Y., assignor to American Telephone and Telegraph Company. Distortion compensator. 1,709,037; Apr. 16.
- Peron, Anthony, New York, N. Y. Steam table. 1,697,472; Jan. 1.
- Perpète, Georges V. L. (See Puttemans, H. A., and Perpète.)
- Perrault, Joseph E., and L. J. Schroeder, assignors to Hood Rubber Company, Watertown, Mass. Pneumatic pressing machine. 1,733,692; Oct. 29.
- Perrault, Rodolphe, Detroit, Mich. Rim-locking device. 1,731,107; Oct. 8.
- Perrem, Frederick C., assignor to Perrem Ignition & Electric Company Limited, Leeds, England. Electric ignition apparatus for internal-combustion engines. 1,715,566; June 4.
- Perrem Ignition & Electric Company Limited. (See Perrem, Frederick C., assignor.)
- Perrier, Daniel, Unieux, France, assignor of one-half to Société Anonyme Française dite: Compagnie Industrielle des Moteurs à Explosion, C. I. M. E., Paris, France. Centrifugal separator. 1,742,095; Dec. 31.
- Perrier, Daniel, Unieux, France, assignor of one-half to Société Anonyme Française dite: Compagnie Industrielle des Moteurs à Explosion, C. I. M. E., Paris, France. Centrifugal separator. 1,742,096; Dec. 31.
- Perrin, Francis. (See Chilowsky, C., and Berrin.)
- Perrine, Verne S. (See Umberger, J. M., and Perrine.)
- Perrot, Henri, Paris, France, assignor to Bendix Corporation, Chicago, Ill. Vehicle braking system. 1,701,505; Feb. 12.
- Perrot, Henri, Paris, France, assignor to Bendix Corporation, Chicago, Ill. Brake-operating mechanism. 1,716,148; June 4.
- Perrot, Henri, Paris, France, assignor, by mesne assignments, to Bendix Aviation Corporation, New York, N. Y. Brake mechanism. 1,727,355; Sept. 10.
- Perry, Charles E., assignor to Evershed & Vignoles, Limited, London, England. Apparatus for the detection and estimation of impurities and dissolved matter in water and other fluids. 1,734,342; Nov. 5.
- Perry, Charles L., Schenectady, N. Y., assignor to General Electric Company. Elimination of chattering or hum in alternating-current electromagnets. 1,717,247; June 11.
- Perry, Charles W., assignor to Stillfilm Company, Los Angeles, Calif. Film carrier. 1,726,120; Aug. 27.
- Perry, Donald B., Yonkers, N. Y., assignor to American Telephone and Telegraph Company. Synchronizing arrangement for moving-picture projectors. 1,733,165; Oct. 29.
- Perry, Edmund S., Chislehurst, England. Knife. 1,706,251; Mar. 19.
- Perry, Edna A., executrix. (See Perry, Frederick H.)
- Perry, Ernest J., Birmingham, England. Loom for weaving carpets and like fabrics. 1,718,486; June 25.
- Perry, Frederick E. (See Muros, Joseph, assignor.)
- Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for manufacturing shoe soles. 1,704,838; Mar. 12.
- Perry, Frederick H., deceased, by E. A. Perry, Beverly, Mass., executrix, assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacturing shoe soles. 1,713,550; May 21.
- Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon insoles. 1,737,728; Dec. 3.
- Perry, George A., assignor to Jones & Lamson Machine Company, Springfield, Vt. Taper turner. 1,731,724; Oct. 15.
- Perry, Howard M., Clarksville, Tenn. Hand-truck attachment. 1,709,737; Apr. 16.
- Perry, Ira D., Chicago, assignor to A. S. Hedstrom, Oak Park, Ill. Bumper for vehicles. 1,715,619; June 4.
- Perry, John E., Sharon, Pa. Collapsible core bar. 1,711,963; May 7.
- Perry, John E., Sharon, Pa., assignor to Valley Mould & Iron Corporation, Hubbard, Ohio. Vertical ingot mold and stool. 1,715,620; June 4.
- Perry, John E., Sharon, assignor to Valley Mould & Iron Corporation, Sharpville, Pa. Steel ingot. 1,720,857; July 16.
- Perry, John E., Sharon, assignor to Valley Mould and Iron Corporation, Sharpville, Pa. Method and apparatus for making stools for ingot molds. 1,730,162; Oct. 1.
- Perry, Louis E., Claremont, N. H., assignor to Claremont Waste Manufacturing Company. Flock cutter. 1,721,086; July 16.
- Perry, Mary T., Tampa, Fla. Sanitary garbage receptacle. 1,707,091; Mar. 26.
- Perry, Melvin W., Algoma, Wis. Machine for gluing veneer edges. 1,739,088; Dec. 10.
- Perry, Napoleon J., assignor to May Hosiery Mills, Nashville, Tenn. Knitting machine. 1,702,839; Feb. 19.
- Perry, Ray P., deceased, Upper Montclair, N. J., by The Barrett Company, assignee, New York, N. Y. Shingle strip. Re17,187; Jan. 8.
- Perry, Ray P., Upper Montclair, and K. B. Howell, East Orange, N. J., assignors to The Barrett Company. Construction material. 1,698,733; Jan. 15.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Production of building felt. 1,707,491; Apr. 2.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Construction material. 1,710,320; Apr. 23.
- Perry, Sydney V., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Translating device. 1,725,157; Aug. 20.
- Perry, Willard T., et al. (See Boland, Virgil E., assignor.)
- Perry, William A., Sidney, Ohio. Earth-working apparatus. 1,711,805; May 7.
- Perry, William A., and G. D. Toy, assignors to The Sidney Steel Scrap Company, Sidney, Ohio. Scraper. 1,698,375; Jan. 8.
- Perry, William J., assignor to The India Rubber Gutta Percha & Telegraph Works Company Limited, London, England. Golf ball. Des. 78,311; Apr. 16.
- Perry, Wilton H., Brooklyn, N. Y. Bottle for holding mucilage and like adhesives and combined brush and stopper therefor. 1,713,145; May 14.
- Perry, Winthrop L. (See Borovoy, S., and Perry.)
- Perryman Electric Co. (See Perryman, George H., assignor.)
- Perryman, George H., West New York, N. J., assignor, by mesne assignments, to Perryman Electric Co., Inc. Amplifier and detector bulb and making the same. 1,736,275; Nov. 19.
- Perryman, George H., Teaneck, N. J., assignor, by mesne assignments, to Perryman Electric Co. Vacuum tube. 1,740,264; Dec. 17.
- Perryman, Nelson J., Montclair, N. J., assignor to All America Cables, Inc., New York, N. Y. Electrical system. 1,735,473; Nov. 12.
- Perryman, William N., Marion, Ky. Mine-ventilating apparatus. 1,727,669; Sept. 10.
- Person, Axel, Attleboro, Mass., assignor, by mesne assignments, to William Demuth & Company, New York, N. Y. Check protector. 1,715,383; June 4.
- Person, Axel, assignor to Harvey Clap & Co., Attleboro, Mass. Clasp for wrist-watch straps. 1,719,849; July 9.
- Person, Earl R., Leominster, Mass., assignor to Du Pont Viscoloid Company, Wilmington, Del. Folding comb. 1,705,644; Mar. 19.
- Person, Edwin. (See Nord, Axel, assignor.)
- Person, Harry L., et al. (See Harris, George R., assignor.)
- Person, William M., Ashland, Ky. Coke oven. 1,698,651; Jan. 8.
- Persons, Charles A., Worcester, Mass. Warning signal. 1,734,979; Nov. 12.



- Persons, Charles A., Worcester, Mass. Reflecting signal. 1,739,733; Dec. 17.
- Persons, Charles A., assignor to Persons-Majestic Manufacturing Company, Worcester, Mass. Tandem attachment for motor cycles. 1,709,538; Apr. 16.
- Persons, Laurence M., St. Louis, Mo., assignor to Emerson Electric Manufacturing Co., Chicago, Ill. Starting clutch for motors. 1,738,201; Dec. 3.
- Persons, Lawrence M. (See Folds, G. R., and Persons.)
- Persons, Lawrence M., assignor to Cook Electric Company, Chicago, Ill. Fuel-feed system. 1,710,004; Apr. 23.
- Persons, Lawrence M., assignor to Cook Electric Company, Chicago, Ill. Float-operated snap-over switch. 1,710,005; Apr. 23.
- Persons, Lawrence M., assignor to Cook Electric Company, Chicago, Ill. Pole cable terminal. 1,716,531; June 11.
- Persons, Lawrence M., assignor to Cook Electric Company, Chicago, Ill. Bellows construction. 1,726,584; Sept. 3.
- Persons-Majestic Manufacturing Company. (See Persons, Charles A., assignor.)
- Persons, Wilber F., Delevan, N. Y. Bumper. 1,713,445; May 14.
- Persson, Per A. J., Vannas, Sweden. Apparatus for the production of force-meat balls and the like. 1,699,914; Jan. 22.
- Peru Plow & Wheel Co. (See Fogger, David I., assignor.)
- Perurena, Frank, deceased, Palisade, Nev.; M. Perurena, administratrix. Heating unit. 1,719,780; July 2.
- Perurena, Mariene, administratrix. (See Perurena, Frank.)
- Peruzzi, Mario, assignor to Planters Nut & Chocolate Company, Wilkes-Barre, Pa. Peanut booth. Des. 77,705; Feb. 12.
- Pervier, William A. (See Bridge, W. G., and Pervier.)
- Pescavoy, Louis. (See Barsuk, N., and Pescavoy.)
- Pescara, Raul P., Paris, France. Air compressor. 1,732,693; Oct. 22.
- Pescara, Raul P., Paris, France. Ignition device for air compressors. 1,732,694; Oct. 22.
- Peschkes, Lorenz, Brooklyn, N. Y. Hinged window. 1,739,257; Dec. 10.
- Peslin, Fred C., Oakland, Calif. Musical instrument. 1,739,914; Dec. 17.
- Pestaloza, Ugo, assignor to Societa Italiana Pirelli, Milan, Italy. Manufacture of rubber articles. 1,717,247; June 11.
- Pestarin, Joseph M., St. Ouen, France, assignor to General Electric Company. Circuit-controlling device. 1,720,566; July 9.
- Pestel, William M., Chicago, Ill. Feeding apparatus. 1,722,822; July 30.
- Peszynska, Louise, Paris, France. Bottle. Des. 79,935; Nov. 19.
- Petch, Herbert S. (See Lejeune, S. M., and Petch.)
- Petch, Herbert S., London, England, assignor to General Electric Company. Phase indicator. 1,728,835; Sept. 17.
- Peter, Adolf, assignor to Landis & Gyr S. A., Zug, Switzerland. Meter-regulating device. Re17,501; Nov. 26.
- Peter, Adolf, assignor to Landis & Gyr S. A., Zug, Switzerland. Meter-regulating device. 1,708,894; Apr. 9.
- Peter, Henry A., Philadelphia, Pa., assignor to Pioneer Suspender Company. Belt box. 1,697,880; Jan. 8.
- Peter, Henry A., Philadelphia, Pa., assignor to Pioneer Suspender Company. Display box. 1,706,859; Mar. 26.
- Peter, Jakob, Baden, Switzerland. Sifting means. 1,706,320; Mar. 19.
- Peter, Leslie H., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Electric-current-rectifying apparatus. 1,712,677; May 14.
- Peter, Rudolph, San Jose, Calif. Orchard heater. 1,708,396; Apr. 9.
- Peter, William J., assignor of one-third to A. Kaestner and one-third to C. F. Beckwith, New York, N. Y. Hydraulic system for storing and delivering oil. 1,710,006; Apr. 23.
- Peterkin, Albert G., jr., Bryn Mawr, W. F. Stroud, jr., Cynwyd, and R. B. Chillas, jr., assignors to The Atlantic Refining Company, Philadelphia, Pa. Distillation of oils. 1,709,874; Apr. 23.
- Peterkin, Albert G., jr., Bryn Mawr, W. F. Stroud, jr., Cynwyd, and R. B. Chillas, jr., assignors to The Atlantic Refining Company, Philadelphia, Pa. Distillation of lubricating stock. 1,710,240; Apr. 23.
- Peterkin, Guy S., Seattle, Wash. Surgical tampon. 1,725,996; Aug. 27.
- Peterman, William C., Rutherford, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Synchronized quadruplex telegraphy. 1,699,444; Jan. 15.
- Peterman, William H. (See Hossell, F., and Peterman.)
- Petermann, Otto. (See Avery, H. A., Petermann, and Harmon.)
- Petermann, Otto, Groton, N. Y., assignor to The American Hardware Corporation, New Britain, Conn. Doorknob construction. 1,731,935; Oct. 15.
- Petero, John, Philadelphia, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pile-wire-withdrawing device for looms. 1,715,947; June 4.
- Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,712,229; May 7.
- Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,715,674; June 4.
- Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Engine. 1,718,070; June 18.
- Peters, Arthur E., Phillipsburg, N. J., and J. Ditson, Littleton, Colo., assignors to Ingersoll-Rand Company, Jersey City, N. J. Shank and bit punch. 1,720,435; July 9.
- Peters Brothers Rubber Company. (See Leatherbury, Robert E., jr., assignor.)
- Peters, Claus, assignor of one-half to O. Spreckels, Richmond Hill, N. Y. Fur blower. 1,702,616; Feb. 19.
- Peters, Cornelius A., Minneapolis, Minn. Buffing device. 1,730,239; Oct. 1.
- Peters, Cornelius A., assignor to The New Beeman Tractor Company, Minneapolis, Minn. Drawbar frame. 1,732,108; Oct. 15.
- Peters, Edwin C., et al., receivers. (See Paden, William L., assignor.)
- Peters, Emil B., Georgetown, Ky. Divider board for mowers. 1,697,474; Jan. 1.
- Peters, Frank R., assignor to Franklin Railway Supply Company, New York, N. Y. Locomotive booster apparatus. 1,697,691; Jan. 1.
- Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Locomotive booster apparatus. 1,714,619; May 28.
- Peters, Frank R., New York, N. Y., assignor to Franklin Railway Supply Company. Railway booster. 1,731,437; Oct. 15.
- Peters, Frank R., assignor to Franklin Railway Supply Company, New York, N. Y. Rooster control. 1,736,886; Nov. 26.
- Peters, Frederick W., Cleveland, Ohio, assignor to Spicer Manufacturing Corporation, South Plainfield, N. J. Universal joint. 1,697,473; Jan. 1.
- Peters, Frederick W., assignor to The Almetal Universal Joint Company, Cleveland, Ohio. Universal joint. 1,702,363; Feb. 19.
- Peters, George E. (See Russell, Linus E., assignor.)
- Peters, George E. (See Russell, L. E., and Peters.)
- Peters, Henry M., Chicago, assignor to Faries Manufacturing Company, Decatur, Ill. Portable reading lamp. Des. 77,856; Feb. 26.
- Peters, Henry M., Chicago, assignor to Faries Manufacturing Company, Decatur, Ill. Portable reading lamp. Des. 77,870; Feb. 26.
- Peters, Henry W., Boston, Mass. Finger ring. Des. 79,603; Oct. 15.
- Peters, Henry W., Boston, Mass. Making finger rings. 1,708,324; Apr. 9.
- Peters, Henry W., Boston, Mass. Making finger rings. 1,740,369; Dec. 17.
- Peters, Henry W., West Roxbury, Mass. Finger ring. 1,704,867; Mar. 12.
- Peters, Irving A., assignor to The Pyle-National Company, Chicago, Ill. Flag holder and classification light stand. 1,705,372; Mar. 12.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Surge recorder. 1,702,412; Feb. 19.
- Peters, John F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc welding system. 1,709,629; Apr. 16.
- Peters, John F., Rochester, assignor to American Can Company, New York, N. Y. Scoring machine. 1,725,967; Aug. 27.
- Peters, John F., Rochester, assignor to American Can Company, New York, N. Y. Tear-open tobacco can. 1,737,020; Nov. 26.
- Peters, John H., Toledo, Ohio. Sequential control apparatus. 1,703,206; Feb. 26.
- Peters, Kurt A., San Francisco, Calif. Electric sand sprayer. 1,732,655; Oct. 22.
- Peters, Mathias, Duisburg, Germany, assignor to Wellman Seaver Rolling Mill Company, Ltd., London, England. Apparatus for the manufacture of metal tubes and other tubular articles. 1,720,345; July 9.
- Peters, Oscar, Chemnitz, Germany. Siphon for decanting liquids. 1,715,470; June 4.
- Peters, Oscar M., assignor to Protex Chain Company, Inc., Waynesboro, Pa. Nonskid chain. 1,697,821; Jan. 1.
- Peters, Robert H., Buffalo, N. Y. Hammer attachment. 1,732,985; Oct. 22.
- Peters, Samuel I., Tucson, Ariz. Antiskid chain. 1,739,016; Dec. 10.
- Peters, William A., assignor to International Patent Licensing Corporation, Chicago, Ill. Camera. 1,705,027; Mar. 12.
- Peters, William J. (See Bauer, L. A., Peters, and Fleming.)
- Petersen, William L. (See Hummel, C. F., and Peters.)
- Petersen, Axel C. G. (See Poulsen, A., and Petersen.)
- Petersen, Carl A., Evanston, assignor to The Pure Oil Company, Chicago, Ill. Service-station booth. Des. 77,857; Feb. 26.
- Petersen, Carl M., assignor to Circle F Mfg. Co., Trenton, N. J. Plug receptacle. 1,698,449; Jan. 8.
- Petersen, Chris. (See Plant, Edward E., assignor.)
- Petersen, Christian, Portland, Me. Combination furniture. 1,710,270; Apr. 23.
- Petersen, Christian H. A., Eugene, Oreg., assignor to New Life Preserver Company. Life-preserving and swimming belt. 1,709,873; Apr. 23.
- Petersen, Christine, Chicago, Ill. Combined corset and brassiere. 1,718,000; June 18.



- Petersen, Heinrich A. W., Gary, Ind. Feed-water regulator. 1,714,519; May 28.
- Petersen, Holger, New York, N. Y. Internal control for dumb-walter doors. 1,731,349; Oct. 15.
- Petersen, Irnfried. (See Heimann, H., Seefried, Petersen, and Bayerl.)
- Petersen, Jens P. (See Jensen, B. C. S., and Petersen.)
- Petersen, Jens P. E., Milwaukee, Wis. Luminous sign. 1,725,206; Aug. 20.
- Petersen, John F., assignor to R. F. Gordon, Bennington, Nebr. Door-operating mechanism. 1,698,652; Jan. 8.
- Petersen, John H. D., assignor to Link-Belt Company, Chicago, Ill. Scraper attachment for chain belts. 1,699,334; Jan. 15.
- Petersen, Leslie T., Denison, Iowa. Barn batten and panel strip. 1,714,237; May 21.
- Petersen, Leslie T., Denison, Iowa. Roof or eave edging. 1,723,204; Aug. 6.
- Petersen, Leslie T., Denison, Iowa. Chicken-house window. 1,737,515; Nov. 26.
- Petersen, Ludwig, Chicago, Ill. Stilt. 1,708,030; Apr. 9.
- Petersen, Martin J., Canyon, Minn. Cleaning rod for guns. 1,698,803; Jan. 15.
- Petersen, Robert P., assignor to Henry W. Horst Company, Philadelphia, Pa. Pile-pulling device. 1,719,021; July 2.
- Petersen, Thorvald, Selma, Calif. Spout. 1,738,077; Dec. 3.
- Petersen, Thorvald, assignor to Reed Manufacturing Company, Erie, Pa. Diestock. 1,724,410; Aug. 13.
- Petersen, Waldemar. (See Dessauer, F., Petersen, and Welter.)
- Petersen, Waldemar, Darmstadt, Germany, assignor to General Electric Company. Alternating-current electric system. 1,731,906; Oct. 15.
- Petersen, Wilhelm H., Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Inverse time-limit relay. 1,699,404; Jan. 15.
- Petersen, Wilhelm H., Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Induction-type relay. 1,711,285; Apr. 30.
- Petersen, Wilhelm H., assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Alternating-current motor. 1,731,394; Oct. 15.
- Petersime, Ira M., Gettysburg, Ohio. Incubator. 1,723,806; Aug. 6.
- Petersime, Ray M., Gettysburg, Ohio. Regulator. 1,727,249; Sept. 3.
- Peterson, Abdel J., Chicago, Ill. Outlet locator. 1,724,307; Aug. 13.
- Peterson, Adolphe C., Minneapolis, Minn. Automotive suspension means. 1,701,335; Feb. 5.
- Peterson, Adolphe C., Minneapolis, Minn. Dual-cycle dual-flow engine. 1,705,876; Mar. 19.
- Peterson, Adolphe C., Minneapolis, Minn. Preselective constant-mesh gear change means. 1,730,380; Oct. 8.
- Peterson, Albion F. (See Freeman, J. I., and Peterson, assignors.)
- Peterson, Alfred, Tompkins, Saskatchewan, Canada. Cultivator. 1,714,442; May 21.
- Peterson, Alfred J. A. (See Moss, C. McL., Farley, and Peterson.)
- Peterson, Alfred J. A., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic reclosing circuit breaker. 1,731,936; Oct. 15.
- Peterson, Burt A. (See Colman, H. D., and Peterson.)
- Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Gasoline gauge. 1,723,438; Aug. 6.
- Peterson, Charles F., New York, N. Y., assignor to one-half to R. E. K. Peterson, Washington, D. C. Electric heater. 1,719,722; July 2.
- Peterson, Charles J. (See Smith, F. L., Caulfield, and Peterson.)
- Peterson, Charles W., Ann Arbor, Mich. Conical-diaphragm sound reproducer. 1,734,271; Nov. 5.
- Peterson, Clarence W., Tracy, Calif. Refreshment stand. Des. 78,897; July 2.
- Peterson, Edith M., assignor to L. E. Fisher, Oakland, Calif. Display device. 1,699,915; Jan. 22.
- Peterson, Edwin F., Menominee, Mich. Compressor-operating means. 1,736,507; Nov. 19.
- Peterson, Emil A., and C. E. Everson, assignors to Valley Iron Works Company, Appleton, Wis. Decking mechanism for paper-making machines. 1,712,632; May 14.
- Peterson, Emil M., Alvarado, Minn. Reel for binders. 1,715,306; May 28.
- Peterson, Erick W. (See Hawkinson, A. H., and Peterson.)
- Peterson, Ernest E., South Hibbing, Minn. Rail-clamping mechanism for railway cars. 1,721,035; July 16.
- Peterson, Ernest E., South Hibbing, Minn. Tamping device. 1,731,023; Oct. 8.
- Peterson, Ernst, Rockford, Ill. Cigarette, match, and cigar dispenser and smoking stand. 1,706,040; Mar. 19.
- Peterson, Eugene, assignor to Western Electric Company, Incorporated, New York, N. Y. System of space-discharge devices. 1,699,711; Jan. 22.
- Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier-wave transmission. 1,733,556; Oct. 29.
- Peterson, Fritz, Idlesleigh, Alberta, Canada. Holder. 1,698,606; Jan. 8.
- Peterson, Gabull, Tarpon Springs, Fla. Propeller guard. 1,713,446; May 14.
- Peterson, George A., Hollis, Okla. Cooling system. 1,729,593; Sept. 24.
- Peterson, George W. (See Thawley, Thomas D., assignor.)
- Peterson, Harold J. (See Weiss, Paul F., assignor.)
- Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Communication system. 1,708,513; Apr. 9.
- Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Combining frequencies. 1,725,721; Aug. 20.
- Peterson, Henry H., Edmund, Wis. Vending machine. 1,722,942; July 30.
- Peterson, Hilmer. (See Morris, R. B., and Peterson.)
- Peterson, Ida M., executrix. (See Johnson, Nils E.)
- Peterson, James W., and T. C. Juner, Edinburgh, Scotland. Improving the adhesion of vehicle wheels to rails. 1,730,944; Oct. 8.
- Peterson, John B., Blaine, Wash. Fastener for crate covers. 1,724,362; Aug. 13.
- Peterson, John J., Anaheim, Calif. Seat. 1,722,678; July 30.
- Peterson, Leonard J. (See Freeman, J. I., and Peterson.)
- Peterson, Lewell J. M., Newark, Ill. Clutch-operating device. 1,701,118; Feb. 5.
- Peterson, Lewell J. M., Newark, Ill. Magneto-starter pawl-tripping device. 1,701,119; Feb. 5.
- Peterson, Max J., Plainview, Tex. Wind motor. 1,718,304; June 25.
- Peterson, Ole, Cleveland, Ohio. Shoe-cementing press. 1,727,519; Sept. 10.
- Peterson, Ole M., Turner, Oreg. Aeroplane. 1,732,141; Oct. 15.
- Peterson, Oscar C. (See Bilty, C. H., and Peterson.)
- Peterson, P. A. (See Johnson, Nils E., assignor.)
- Peterson, Paul A., Duluth, Minn. Fence-post clamp. 1,725,475; Aug. 20.
- Peterson, Peter J., Chugwater, Wyo. Trap. 1,707,740; Apr. 2.
- Peterson, Robert E. (See Frafani, L. B., and Peterson.)
- Peterson, Ruth E. K. (See Peterson, Charles F., assignor.)
- Peterson, Thomas A., Onalaska, Wash. Cutter head. 1,705,994; Mar. 19.
- Peterson, W. F., et al., trustees. (See Brown, Lloyd, assignor.)
- Peterson, Walker F., assignor to Baltimore Valve Corporation, Baltimore, Md. Ball cock. 1,723,205; Aug. 6.
- Peterson, Walter R., Park Ridge, Ill., assignor to International Harvester Company. Disk-harrow frame. 1,734,397; Nov. 5.
- Peterson, William, et al. (See Thiemann, William B., assignor.)
- Peterson, William, Anaheim, Calif. Wrench. 1,715,426; June 4.
- Peterson, William H., and E. B. Fred, Madison, Wis., assignors to Wisconsin Alumni Research Foundation. Production of lactic and acetic acids. 1,723,298; Aug. 6.
- Peterson, William J., Thornton, Ark. Plowline clamp. 1,735,787; Nov. 12.
- Petit, Fred, North Bergen, N. J. Card-feeding attachment for jacquard weaving machines. 1,731,503; Oct. 15.
- Petigor, Isidor F., New York, N. Y. Stand. 1,737,729; Dec. 3.
- Petit, George R., Laconia, N. H. Attachment for violins. 1,739,416; Dec. 10.
- Petit, Henry B., assignor to George M. Holley, Detroit, Mich. Vaporizing manifold. 1,706,860; Mar. 26.
- Petit, Henry B., assignor to G. M. Holley, Detroit, Mich. Air valve for carburetors. 1,707,942; Apr. 2.
- Pettitjean, Clifford O., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Transfer mechanism. 1,699,569; Jan. 22.
- Petley, Henry, Akron, Ohio, assignor, by mesne assignments, to Whitman Barnes-Detroit Corporation, Detroit, Mich. Electrically welding a drill. 1,703,899; Mar. 5.
- Peto, James T., Ridgewood, N. J. Web-joining apparatus. 1,739,610; Dec. 17.
- Petrie & Dorr Engineers, Inc. (See Woodcock, George A. N., assignor.)
- Petrelli, Joseph V., New Rochelle, N. Y. Sliding register. 1,740,626; Dec. 24.
- Petrie, David G., assignor to Young, Osmond, & Young, Limited, Bexley Heath, England. Electric heating apparatus. 1,710,511; Apr. 23.
- Petris, Anthony F., South Chicago, Ill. Device for recovering submarine boats. 1,736,983; Nov. 26.
- Petroff, Grigori, Moscow, Russia. Obtaining soap. 1,732,656; Oct. 22.
- Petroleum Conversion Corporation. (See Colony, Myron W., assignor.)
- Petroleum Conversion Corporation. (See Knox, William J., assignor.)
- Petroleum Conversion Corporation. (See Tolman, Charles P., assignor.)
- Petroleum Derivatives Company. (See Heydt, Edward F., assignor.)
- Petroleum Derivatives Incorporated, of Maine. (See Gibb, John A., assignor.)
- Petroleum Derivatives, Inc. (See Ryder, James C., assignor.)
- Petroleum Engineering Corporation. (See Dresser, Robert A., assignor.)
- Petroleum Heat and Power Company. (See Frenier, Albert B., assignor.)
- Petroleum Heat and Power Company. (See Macrae, James N., assignor.)



- Petroleum Heat and Power Company. (See Scheminger, John, jr., assignor.)
- Petroleum Heat and Power Company. (See Thoresen, Ralph S., assignor.)
- Petroleum Iron Works Company. (See Hawthorne, Primm R., assignor.)
- Petrolignum Company Limited. (See Tóth, Josef, assignor.)
- Petropoulos, George P., Chicago, Ill. Coffee-making apparatus. 1,704,809; Mar. 12.
- Petrov, Arthur, assignor to St. Louis Doll and Toy Manufacturing Company, St. Louis, Mo. Voice-producing device for dolls. 1,698,142; Jan. 8.
- Petrov, Arthur, assignor to St. Louis Doll & Toy Mfg. Co., St. Louis, Mo. Voice mechanism for dolls. 1,698,143; Jan. 8.
- Petrov, Arthur, St. Louis, assignor to St. Louis Doll & Toy Mfg. Co., St. Louis, Mo. Reed. 1,721,166; July 16.
- Petry & Brandt. (See Brandt, Rudolph, assignor.)
- Petry, Gustav. (See Jorgensen, A. K., and Petry.)
- Petry, Jacob, Pittsburgh, Pa. Making dental crowns. 1,737,172; Nov. 26.
- Petry, Jacob, Pittsburgh, Pa. Method of and apparatus for making dental crowns. 1,737,539; Nov. 26.
- Petsche, Gustav B. (See Paterson, D. S., and Petsche.)
- Petschenig, Karl, Vienna, Austria, assignor to the firm C. P. Goertz Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goertz, Opticky Ustav, Bratislava, Czechoslovakia. Range finder. 1,718,071; June 18.
- Petschenig, Karl, and J. Schier, Vienna, Austria, assignors to Czechoslovak firm C. P. Goertz Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goertz Opticky Ustav, Bratislava, Czechoslovakia. Apparatus for imparting the lateral direction to guns for indirect firing. 1,730,290; Oct. 1.
- Petta, John, and S. Zacharyasz, Pueblo, Colo. Booth. 1,728,134; Sept. 10.
- Pettee, Allen D., Mount Vernon, assignor to T. E. Murray, Brooklyn, N. Y. Method and apparatus for lubricating duets. 1,716,384; June 11.
- Pettengill, Ralph H., Haverhill, Mass. Wood-heel-turning machine. 1,699,077; Jan. 15.
- Petterson, Ernst L., Arboga, Sweden. Harrow or the like with yielding prongs. 1,734,875; Nov. 5.
- Petterson, Harold A., Tientsin, China. Track construction. 1,704,545; Mar. 5.
- Petterson, Clarence O., Cleveland, Ohio. Refrigerating system and controlling apparatus therefor. 1,724,219; Aug. 13.
- Pettit, George A., Vasteras, assignor to Aktiebolaget Lindholmen-Motala, Motala Verkstad, Sweden. Producing articles from granular or plastic substances. 1,733,513; Oct. 29.
- Pettibone, John C. (See Dodge, A. J., and Pettibone.)
- Pettibone Mulliken Company. (See Andersen, Oscar W., assignor.)
- Pettibone Mulliken Company. (See Fiddymont, Samuel C., assignor.)
- Pettibone, Stanley A., Chicago, Ill. Lamp fixture. Des. 77,706; Feb. 12.
- Pettibone, Walter W., Birmingham, Ala., assignor to Fuel Efficiency Engineering Corporation. Paddle for impact type of pulverizers. 1,711,964; May 7.
- Pettingill, Henry S., jr., Bartlesville, assignor, by mesne assignments, to Empire Refineries, Inc., Tulsa, Okla. Apparatus for distilling oil. 1,698,507; Jan. 8.
- Pettis, Clifton D., New York, N. Y. Mold. 1,707,492; Apr. 2.
- Pettit, George A. (See Sutter, C., Pettit, and Norman.)
- Pettit, James C., assignor of one-third to Claude Mullenax and one-third to B. Morriss, Blackstone, Va. Separator. 1,722,943; July 30.
- Pettit, John H., Alhambra, Calif. Darner foot for sewing machines. 1,726,450; Aug. 27.
- Pettit, Ray L., and W. A. Cease, Tulsa, Okla., said Pettit assignor to said Cease. Sunshade. 1,727,670; Sept. 10.
- Pettit, William L., Memphis, Tenn. Cotton gin. 1,721,036; July 16.
- Petty, Claudius M., Wilkesboro, N. C. Convenient union alls. 1,737,803; Dec. 3.
- Petty, John, assignor to Jo Pet, Inc., Lebanon, Pa. Welding together a steel head and shell. 1,697,881; Jan. 8.
- Petty, William M., Denver, Colo. Radiator ornament. Des. 77,432; Jan. 8.
- Petty, William S., Denver, Colo. Ironing table. 1,725,207; Aug. 20.
- Petty, William S., Denver, Colo., assignor to Kay-Petty Mfg. Co. Ironing table. 1,723,439; Aug. 6.
- Peuchen, W. G., et al. (See D'Olier, William L., assignor.)
- Peugh, Verne L., Ramona, Calif. Cableway. 1,729,964; Oct. 1.
- Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Mineral-oil vaporizer. 1,700,709; Jan. 29.
- Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Distilling mineral oil. 1,707,448; Apr. 2.
- Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Air-tight valve structure. 1,720,346; July 9.
- Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Distilling mineral oil. 1,714,811; May 28.
- Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Apparatus for distilling mineral oil. 1,714,812; May 28.
- Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Apparatus for mineral-oil distillation. 1,719,235; July 2.
- Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Completely separating gasoline from mineral oil. 1,723,368; Aug. 6.
- Pew, Thomas C., assignor to Hoover Steel Ball Company, Ann Arbor, Mich. Apparatus for assembling bearings. 1,723,369; Aug. 6.
- Peyrachon, Pierre J., La Felguera, Spain. Apparatus for manufacturing iron and steel. 1,720,055; July 9.
- Peyton, William E., Roberts, Idaho. Radiator ornament. 1,708,631; Apr. 9.
- Pezold, John W., Sanford, Fla. Oiling system for internal-combustion engines. 1,705,645; Mar. 19.
- Pezzella, Philip, Brooklyn, N. Y. Bedsprad. Des. 77,498; Jan. 15.
- Pfaehler, Richard. (See Lee, W. S., Pfaehler, and Nabow.)
- Pfaff, Andrew J. sr., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Felt-covered base member for electric fans and the like. 1,725,932; Aug. 27.
- Pfaff, Charles and J. Pouch, Philadelphia, Pa. Fuse. 1,707,414; Apr. 2.
- Pfaff, Ernest C., Chicago, Ill. Clutch. 1,723,886; Aug. 6.
- Pfaff, Ernest C., Chicago, Ill. Pulley clutch. 1,723,887; Aug. 6.
- Pfaff, Harry E., Warren, Ohio, assignor to A. Metherell, Hamilton, Canada. Chain wrench. 1,706,411; Mar. 26.
- Pfahl, Daniel S., Cleveland, Ohio. Filling-pipe cap. 1,733,274; Oct. 29.
- Pfalzgraf, Charles F., assignor to Baltimore Stamping & Enameling Co., Baltimore, Md. Household sifter. 1,697,367; Jan. 1.
- Pfanhauser, Wilhelm A. F., Leipzig, Germany. Device for measuring the current densities of galvanic baths. 1,735,878; Nov. 19.
- Pfannenstiehl, Harry, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Phonograph-record-recording machine. 1,711,650; May 7.
- Pfannenstiehl, Harry, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Film-drive mechanism. 1,728,304; Sept. 17.
- Pfannenstiehl, Harry, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Film-retaining roller. 1,733,557; Oct. 29.
- Pfanstiehl, Carl, Highland Park, Ill., assignor to Pfanstiehl Radio Company. Friction drive. 1,699,158; Jan. 15.
- Pfanstiehl, Carl, Highland Park, assignor, by mesne assignments, to National Electrical Products Company, Waukegan, Ill. Support for variable condenser. 1,701,244; Feb. 5.
- Pfanstiehl, Carl, Highland Park, assignor, by mesne assignments, to National Electrical Products Company, Waukegan, Ill. Multiple condenser. 1,712,165; May 7.
- Pfanstiehl Radio Company. (See Pfanstiehl, Carl, assignor.)
- Pfau, Arnold, jr. (See Rohn, G. J., and Pfau.)
- Pfau, Arnold, jr., San Francisco, Calif., assignor to Global Corporation, Niagara Falls, N. Y. Electrical heating appliance. 1,699,405; Jan. 15.
- Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Prime-mover-control system. 1,706,812; Mar. 26.
- Pfau, Arnold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system for hydraulic turbines and the like. 1,706,813; Mar. 26.
- Pfandler Company, The. (See Elmendorf, Milton W., assignor.)
- Pfandler Company, The. (See Elmendorf, M. W., and Nicholas, assignors.)
- Pfandler Co., The. (See Hartz, Barge, L., assignor.)
- Pfandler Company, The. (See Hunziker, Otto F., assignor.)
- Pfandler Company, The. (See Jacobsen, Jens N., assignor.)
- Pfandler Co., The. (See Nichols, Edgar B., assignor.)
- Pfeffer, Ernst, Schwanheim-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Printing with vat dyestuffs mixed with cellulose esters or others. 1,710,007; Apr. 23.
- Pfeffer, Felix. (See Tatalay, J., and Holzberg, assignors.)
- Pfeffer, George C., Florence Township, Burlington County, N. J., assignor to W. Wood, Philadelphia, Pa. Automatic control for centrifugal casting machines. 1,733,820; Oct. 29.
- Pfeffer, Henry W., Narberth, Pa., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Dust collector. 1,719,447; July 2.
- Pfeffer, Henry W., Narberth, Pa., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Apparatus for collecting dust particles. 1,735,298; Nov. 12.
- Pfeffer, Louis, assignor to Pfeffer Press Company, Incorporated, Maysville, Ky. Tobacco press. 1,735,474; Nov. 12.
- Pfeffer Press Company. (See Pfeffer, Louis, assignor.)
- Pfefferkorn, Frederick F., Lakewood, assignor to The Geo. H. Bowman Company, Cleveland, Ohio. Bird cage. Des. 79,617; Oct. 15.



- Pfeifer, George F., Riverside, assignor to Quincy Compressor Co., Quincy, Ill. Valve mechanism for air pumps and the like. 1,704,513; Mar. 5.
- Pfeifer, John, assignor of one-third to W. G. Grim, Springfield, Ohio. Computing scale. 1,707,683; Apr. 2.
- Pfeifer, John, assignor of one-third to S. W. Waring, Springfield, Ohio. Electric switch. 1,708,431; Apr. 9.
- Pfeifer, John F., Lewistown, Mont. Barrelless bear gun. 1,734,876; Nov. 5.
- Pfeiffer, Adolph, Chicago, Ill. Fastener. 1,712,639; May 14.
- Pfeiffer, Adolph, Chicago, Ill. Fastener. 1,730,091; Oct. 1.
- Pfeiffer, Benjamin S. (See Chase, S., 4th, and Pfeiffer.)
- Pfeiffer, Christian. (See Moore, R. T., and Pfeiffer.)
- Pfeiffer, Christian, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Speed regulator for machine guns. 1,741,432; Dec. 31.
- Pfeiffer, Christian, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Speed regulator for machine guns. 1,741,534; Dec. 31.
- Pfeiffer, Christian, Hartford, and F. T. Moore, East Hartford, assignors to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine feed mechanism for machine guns. 1,719,126; July 2.
- Pfeiffer, Christian, Hartford, and F. T. Moore, East Hartford, assignors to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine feed mechanism for machine guns. 1,719,127; July 2.
- Pfeiffer, Christian, Hartford, and F. T. Moore, East Hartford, assignors to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Trigger mechanism for machine guns. 1,738,502; Dec. 3.
- Pfeiffer, Frank E., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. 1,696,970; Jan. 1.
- Pfeiffer, Franklin. (See Bauersfeld, W., and Pfeiffer.)
- Pfeiffer, Fred B., Akron, and J. W. White, Barberton, Ohio, assignors to Seiberling Rubber Company. Tire-bead building machine. 1,738,018; Dec. 3.
- Pfeiffer, Gustavus A., New York, N. Y. Face-powder box. 1,733,132; Oct. 29.
- Pfeiffer, John G. (See Schwerin, P., and Pfeiffer.)
- Pfeiffer, Philip, San Diego, Calif. Tractor wheel with adjustable lug. 1,702,617; Feb. 19.
- Pfeil, Roy C. (See Bloss, R. R., Pfeil, and Maurer.)
- Pfender, Adolph, assignor to Ferguson and Lange Foundry Company, Chicago, Ill. Water-heating apparatus. 1,733,425; Oct. 29.
- Pferdmenges, Heinrich, Giesenkirchen, near Rheydt, Germany. Machine for moistening yarn. 1,717,249; June 11.
- Pferdmenges, Heinrich, Giesenkirchen, Germany. Apparatus for moistening yarns, threads, and the like. 1,736,359; Nov. 19.
- Pfester, Henry J., assignor to The M. B. Farrin Lumber Company, Cincinnati, Ohio. Composite panel and attaching device therefor. 1,718,702; June 25.
- Pfiffer, Emil, Fribourg, Switzerland. Current transformer. 1,731,865; Oct. 15.
- Pfiffer, Emil, Fribourg, Switzerland, assignor, by mesne assignments, to Radio Patents Corporation, New York, N. Y. Metallizing the surfaces of insulating bands particularly for use in electric condensers. 1,731,261; Oct. 15.
- Pfiffer, Emil, Fribourg, Switzerland, assignor, by mesne assignments, to Radio Patents Corporation, New York, N. Y. Metallizing the surfaces of insulating bands. 1,741,477; Dec. 31.
- Pfiffer, Emil, Budapest, Hungary, assignor, by mesne assignments, to Radio Patents Corporation, New York, N. Y. Condenser terminal or clamp. 1,702,413; Feb. 19.
- Pfister, George J., Wauwatosa, Wis. Collapsible container. 1,706,814; Mar. 26.
- Pfister, George J., Wauwatosa, Wis. Box opener. 1,725,416; Aug. 20.
- Pfister, William A. (See Price, E., and Pfister.)
- Pfizer, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Rocker-centering device. 1,702,269; Feb. 19.
- Pfizer, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Trailer truck. 1,717,622; June 18.
- Pfizer, Harry M., St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Booster-motor support. 1,729,453; Sept. 24.
- Pfleger, Johannes. (See Albert, A., and Pfleger.)
- Pfleger, Kenneth W. (See Nyquist, H., and Pfleger.)
- Pfleger, Robert A., Los Angeles, Calif. Adjustable condenser. 1,698,997; Jan. 15.
- Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Striker spoon. 1,700,332; Jan. 29.
- Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,730,332; Oct. 1.
- Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fish lure. 1,730,333; Oct. 1.
- Pfueger, Charles T., and F. B. Koehler, assignors to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,730,331; Oct. 1.
- Pfueger, Joseph E., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Combined fishhook and weed guard. 1,726,502; Aug. 27.
- Pfueger, Joseph E., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. 1,727,936; Sept. 10.
- Pflug, Richard, Luckenwalde, near Berlin, Germany. Support for scaffolds and the like. 1,698,607; Jan. 8.
- Pfouts, John S., administratrix. (See Pfouts, Leroy S.)
- Pfouts, Leroy S., deceased, by J. S. Pfouts, administratrix, assignor to The H. H. Miller Industries Company, Canton, Ohio. Freezing apparatus. 1,706,589; Mar. 26.
- Pfouts, Leroy S., assignor to The H. H. Miller Industries Company, Canton, Ohio. Control mechanism for filling and emptying receptacles. 1,721,469; July 16.
- Pfrommer, Bruno, Reutlingen, Germany. Knitted fabric. 1,722,391; July 30.
- Pfuhl, Louise, Rochelle Park, N. J. Plate or similar article. Des. 79,202; Aug. 13.
- Phair, Robert A., Allendale, N. J., assignor to H. Kohnstamm & Co., Inc., New York, N. Y. Protecting fabric. 1,708,519; Apr. 9.
- Phair, Robert A., Allendale, N. J., and B. Bucaria, Brooklyn, assignors to H. Kohnstamm & Co., Inc., New York, N. Y. Laundering textile fabric. 1,732,729; Oct. 22.
- Phare, Carl E., Portland, Oreg. Swivel coupling for coaster cars. 1,719,193; July 2.
- Pharr, William F., Birmingham, Ala. Apparatus for manufacturing artificial ice. 1,727,556; Sept. 10.
- Phelan, James H., Brookline, assignor of one-half to R. Paterson, Melrose, Mass. Radiator wall bracket. 1,720,687; July 16.
- Phelan, John J., Troy, N. Y., assignor to General Electric Company, Brazeal, N. Y. 1,717,250; June 11.
- Phelan, Louis A. M., assignor to Absolute Con-Tac-Tor Corporation, Beloit, Wis. Thermostat. 1,704,370; Mar. 5.
- Phelan, Louis A. M., Beloit, Wis., assignor, by mesne assignments, to Time-O-Stat Corporation, Elkhart, Ind. Electric switch. 1,704,371; Mar. 5.
- Phelan, Louis A. M., Beloit, Wis., assignor to Time-O-Stat Controls Company, Elkhart, Ind. Electrical switch. 1,736,129; Nov. 19.
- Phelan, Louis A. M., assignor, by mesne assignments, to Time-O-Stat Controls Company, Elkhart, Ind. Heating element. 1,738,150; Dec. 3.
- Phelon, Arthur E. (See Smith, E. L., and Phelon.)
- Phelps, Barton P., Topeka, Kans., assignor to Whiting Corporation, Harvey, Ill. Drop pit. 1,707,923; Apr. 2.
- Phelps, Bruce M., Springfield, Mass. Electric switch receptacle for door locks. 1,702,483; Feb. 19.
- Phelps, George H., Warehouse Point, Conn., and T. E. Murray, Jr., Brooklyn, N. Y.; said Phelps assignor to said Murray. Radiator. 1,716,459; June 11.
- Phelps, Henry E. (See Davidson, J., Jr., and Phelps.)
- Phelps, Henry E. (See Toomey, J. F., and Phelps.)
- Phelps, James E., Lisbon, Iowa. Tool. 1,721,788; July 23.
- Phelps, James E., Lisbon, Iowa. Finger scissors. 1,721,789; July 23.
- Phelps, James W., Chicago, Ill. Flashing receptacle. 1,728,627; Sept. 17.
- Phelps, Lewis W., Chicago, Ill., and H. T. Haskins, Denver, Colo.; said Haskins assignor to said Phelps. Oil dispenser. 1,732,109; Oct. 15.
- Phelps, Raymond, et al. (See Crain, Jack R., assignor.)
- Phelps, Roscoe G. (See Fagan, J. T., and Phelps.)
- Phelps, Walter A., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric signaling. 1,717,062; June 11.
- Phelps, Willie G., McKinney, Tex. System of lubrication. 1,737,124; Nov. 26.
- Phifer, Eugene H. (See Phifer, Simon B., assignor.)
- Phifer, Simon B., assignor to E. H. Phifer, Washington, D. C. Educational card game. 1,699,629; Jan. 22.
- Philad Company, The. (See Decker, George, assignor.)
- Philadelphia Bronze Bearing and Tube Company. (See Small, George A., assignor.)
- Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)
- Philadelphia Drying Machinery Company, The. (See Allsop, T., and Wigglesworth, assignors.)
- Philadelphia Ice Cream Cone Machinery Company. (See Berzon, Louis, assignor.)
- Philadelphia Metal Drying Form Company. (See Kershaw, Arthur, assignor.)
- Philadelphia Metal Drying Form Company. (See Nebel, Oscar, assignor.)
- Philadelphia Metal Drying Form Company. (See Von Stetten, Julius O., assignor.)
- Philadelphia Rubber Works, The. (See Day, Herbert G., assignor.)
- Philadelphia Rubber Works Company, The. (See Fisher, J. F., and Gillam, assignors.)
- Philadelphia Rubber Works Company, The. (See Winkelmann, Herbert A., assignor.)
- Philadelphia Storage Battery Company. (See Grinditch, William H., assignor.)
- Philadelphia Storage Battery Company. (See Holland, Walter E., assignor.)
- Philadelphia Storage Battery Company. (See Pearson, Lawrence J., assignor.)
- Philadelphia Storage Battery Company. (See Skinner, James M., assignor.)
- Philbrick, Frederick B., Needham, and F. A. Raymond, Newton Center, assignors to The Gamewell Company, Newton Upper Falls, Mass. Signaling box. 1,730,683; Oct. 8.



- Philip, George R., assignor to Cross Brothers Company, Northfield, Vt. Sand-blast carving and making the same. 1,720,567; July 9.
- Philip, George R., assignor to Cross Brothers Company, Northfield, Vt. Sand-blast carving and making the same. 1,720,568; July 9.
- Philip, George R., assignor to Cross Brothers Company, Northfield, Vt. Sand-blast carving and making the same. 1,720,569; July 9.
- Philip, Howard, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Punch-press die. 1,729,123; Sept. 24.
- Philip, Robert A., assignor to Dwight P. Robinson & Company, Inc., New York, N. Y. Regulating device for electrical systems. 1,738,726; Dec. 10.
- Philpon, Henri J. F., St. Etienne, assignor to The Société Anonyme "L'Air Chaud", St. Etienne (Loire), France. Operating molten-slag gas producers. 1,720,290; July 9.
- Philippart, Louis. (See Chireix, H., and Philippart.)
- Philippeau, Juliette L., New York, N. Y. Beverage dispenser. Des. 78,123; Mar. 26.
- Phillips, Earle S., assignor to American Road Machinery Company, Kennett Square, Pa. Transporting concrete. 1,734,980; Nov. 12.
- Phillips, Earle S., assignor to American Road Machinery Company, Kennett Square, Pa. Transporting concrete. 1,734,981; Nov. 12.
- Phillips, Herman B., New York, N. Y. Automobile driving transmission. 1,713,712; May 21.
- Phillips, Herman B., New York, N. Y. Automobile transmission. 1,713,713; May 21.
- Philleo, Leigh H. (See Ashley, C. H., and Philleo.)
- Phillippi, Arthur K., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Terminal connector. 1,702,451; Feb. 19.
- Phillips, Alfred E., Zanesville, Ohio. Circuit closer for signal devices. 1,705,135; Mar. 12.
- Phillips, Alfred E., Zanesville, Ohio. Switch. 1,705,136; Mar. 12.
- Phillips, Arthur H., Hempstead, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifold book. 1,718,799; June 25.
- Phillips, Arthur H., Hulberton, N. Y. Fruit packer. 1,727,250; Sept. 3.
- Phillips-Baker Rubber Company. (See Costellow, Earle H., assignor.)
- Phillips & Butteroff Mfg. Co. (See Binns, Douglas W., assignor.)
- Phillips, Carlton R., Oakland, Calif. Dirigible headlight. 1,741,433; Dec. 31.
- Phillips, Charles, assignor to W. H. Phillips, Wichita, Kans. Household electric refrigerator. 1,725,933; Aug. 27.
- Phillips, Charles A. (See Hall, R. F., and Phillips.)
- Phillips, Charles E., assignor to Harry B. Mahan Company, Indianapolis, Ind. Collapsible box. 1,716,975; June 11.
- Phillips, Curtis M., Rudyard, Mont. Seed-treating apparatus. 1,733,314; Oct. 29.
- Phillips, David, Daytona Beach, Fla. Educational astronomical device. 1,719,723; July 2.
- Phillips, Edgar J., et al., executors. (See Kraft, Henry P.)
- Phillips, Elwood C., Evanston, Ill. Table. 1,741,779; Dec. 31.
- Phillips, Emory B., Pittsburgh, Pa. Electrical machine. 1,713,089; May 14.
- Phillips, Ernest B., East Chicago, Ind., and J. G. Stafford, Chicago, assignors to Sinclair Refining Company, Chicago, Ill. Refining of petroleum. 1,709,149; Apr. 16.
- Phillips, Ernest B., East Chicago, Ind., and J. G. Stafford, assignors to Sinclair Refining Company, Chicago, Ill. Dewaxing of oil. 1,714,133; May 21.
- Phillips, Eugene, New York, N. Y. Ash receptacle for vehicles. 1,708,895; Apr. 9.
- Phillips, Fred C., Stoughton, Mass. Fluid-projecting apparatus. 1,730,684; Oct. 8.
- Phillips, Frederick W., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-treating apparatus. 1,698,274; Jan. 8.
- Phillips, George F., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture apparatus. 1,727,356; Sept. 10.
- Phillips, George P., Boston, Mass. Dental device and utilizing the same. 1,734,398; Nov. 5.
- Phillips, Harley R. (See Mojonnier, J. J., Phillips, and Clarke.)
- Phillips, Harley R., Oak Park, Ill., assignor to Mojonnier Bros. Co. Power-driven container-forming machine. 1,702,704; Feb. 19.
- Phillips, Hector G. O. (See Phillips, John C. and H. G. O.)
- Phillips, Henry S., Covina, Calif. Orchard heater. 1,701,727; Feb. 12.
- Phillips, John C. and H. G. O., St. Kilda, Victoria, Australia. Amusement car. 1,703,360; Feb. 26.
- Phillips, John E., assignor to Albert Pick & Company, Chicago, Ill. Plate or similar article. Des. 79,604; Oct. 15.
- Phillips, John H., Pittsburgh, Pa. Wading tank. 1,738,017; Dec. 3.
- Phillips, Julia C., New York, N. Y. Kitchenette. 1,726,920; Sept. 3.
- Phillips, Louis A., Tenaflly, N. J. Binder. 1,733,238; Oct. 29.
- Phillips, Morris G. P., London, England. Machine for stripping tobacco leaves. 1,718,664; June 25.
- Phillips, Morris G. P., London, England. Feeding tobacco leaves to tobacco-stripping machines. 1,733,359; Oct. 29.
- Phillips, Nathan C., assignor to Russia Cement Company, Gloucester, Mass. Ink package. 1,701,728; Feb. 12.
- Phillips, Paul D., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Wireless cluster. 1,740,956; Dec. 24.
- Phillips, Paul D., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cover for reflectors. 1,740,957; Dec. 24.
- Phillips, Ray V., Brooklyn, N. Y. Railroad-crossing gate. 1,718,001; June 18.
- Phillips, Ray V., Brooklyn, N. Y. Electromagnetic signal (toy). 1,725,417; Aug. 20.
- Phillips, Ross M. G., assignor to H. V. Whipple, New Haven, Conn. Safety system for burning fuel oil under pressure. 1,706,704; Mar. 26.
- Phillips, Ross M. G., assignor of one-third to W. Schoenberger and one-third to S. Muhlfelder, New Haven, Conn. Toothbrush cabinet. 1,727,176; Sept. 3.
- Phillips, Robert, Co. (See Mathieu, Frederick W., assignor.)
- Phillips, Russell W., Rockville Center, N. Y. Carton construction. 1,733,275; Oct. 29.
- Phillips, Theodore, et al. (See Loram, Edward R., assignor.)
- Phillips, Walter W., Frankford, Del. Fire escape. 1,714,813; May 28.
- Phillips, Willard G., Hollywood, Calif. Automatic adjustable rope tie. 1,737,678; Dec. 3.
- Phillips, William H. (See Phillips, Charles, assignor.)
- Phillips, William H., Chicago, Ill. Automatic coal-spout-swinging device. 1,711,156; Apr. 30.
- Phillips, William H., Chicago, Ill. Automatic coal-spout-swinging device. 1,711,157; Apr. 30.
- Phillips, William H., assignor to Henry Pratt Company, Chicago, Ill. Automatic coal-spout-swinging device. 1,711,155; Apr. 30.
- Phillips, William H., Shaler Township, Allegheny County, assignor to Molybdenum Corporation of America, Pittsburgh, Pa. Ferrous base article of manufacture. 1,697,083; Jan. 1.
- Phillips, William L., Houston, Tex. Unloading attachment for hand trucks. 1,710,893; Apr. 30.
- Phillips, William M., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Chromium-plated exhaust valve. 1,731,202; Oct. 8.
- Phillipson, Ferdinand, New York, N. Y. Combined spoon and bottle closure. 1,706,815; Mar. 26.
- Philyaw, Jeff D., assignor of one-sixth to T. W. Elkin, one-sixth to M. L. Huffmaster, and one-sixth to T. D. Harbour, Meridian, Miss. Doorbell and burglar alarm. 1,717,580; June 18.
- Phinney, Edward D., Mount Vernon, assignor to Manhattan Electrical Supply Company, Inc., New York, N. Y. Doorcheck. 1,733,514; Oct. 29.
- Phipps, Edward, Highland Park, Mich. Mop. 1,724,308; Aug. 13.
- Phipps, Eva R., et al. (See Kay, Oscar, assignor.)
- Phipps, Harve H., et al. (See Fibiger, Augustus F., assignor.)
- Phipps, Holly C., et al. (See Kay, Oscar, assignor.)
- Phipps, John T., Huntington Park, Calif. Pump jack. 1,711,806; May 7.
- Phipps, John T., Huntington Park, Calif., assignor of one-fourth to M. M. Newcomb. Compensating for wear on swab packers. 1,717,518; June 18.
- Phipps, John T., Huntington Park, assignor to H. C. Smith Manufacturing Company, Whittier, Calif. Core barrel. 1,731,262; Oct. 15.
- Phipps, John T., and H. C. Smith, Whittier, Calif.; said Phipps assignor to said Smith. Core drill. 1,721,921; July 23.
- Phoenix Caster Company, The. (See Cousins, Cordy F., assignor.)
- Phoenix, Ernest T. (See Coyle, J. A., and Phoenix.)
- Phoenix-Hermetic Company. (See Crabbe, Lindsay T., assignor.)
- Phoenix-Hermetic Company. (See Taliaferro, Thomas L., assignor.)
- Phoenix Hosiery Company. (See Breyer, Robert, assignor.)
- Phoenix Hosiery Company. (See Fitzgibbon, John E., assignor.)
- Phoenix Hosiery Company. (See Thierfelder, Albert, assignor.)
- Phoenix Meter Company. (See Gamon, Ernest E., assignor.)
- Photo Equipment Mfg. Co. (See Harris, Benjamin G., assignor.)
- Photo Equipment Mfg. Co. (See Kaiser, Alfred E., assignor.)
- Photogenic Machine Company. (See Kubiak, Lester S., assignor.)
- Photomaton, Inc. (See Barton, Ralph F., assignor.)
- Photostat Corporation. (See Caps, Arthur W., assignor.)
- Photostat Corporation. (See Greene, John S., assignor.)
- Photostat Corporation. (See Jones, Albert R., assignor.)
- Pianoforte Supplies Limited. (See Stone, Joseph A., assignor.)
- Piatt, Jesse B., New Lebanon, Ohio. Reinforced-concrete column. 1,705,028; Mar. 12.
- Piazzoli, Francois. (See Améteyer, A., and Piazzoli.)
- Piazzoni, Beatrice, San Francisco, Calif. Hair waver. 1,723,370; Aug. 6.



- Picard, Henri, and J. Simard, St. Donat, Quebec, Canada. Table. 1,725,017; Aug. 20.
- Picard, John B., assignor to The National Supply Company, Toledo, Ohio. Crank-shaft support. 1,723,299; Aug. 6.
- Picard, John B., assignor to The National Supply Company, Toledo, Ohio. Counterbalance. 1,731,263; Oct. 15.
- Picareff, Anton, assignor to Anton Picareff Art Studios, Inc., New York, N. Y. Coloring agent for fabrics and making the same. 1,722,392; July 30.
- Picareff, Anton, Art Studios, Inc. (See Picareff, Anton, assignor.)
- Picco, John, New York, N. Y. Life-saving apparatus. 1,719,194; July 2.
- Piccolo, Hugo T., New York, N. Y. Combined floor lamp and radio set. 1,721,488; July 16.
- Pichette, John J., assignor to Whitin Machine Works, Whitinsville, Mass. Bobbin holder. 1,726,764; Sept. 3.
- Pick, Albert, & Company. (See McKenna, William, assignor.)
- Pick, Albert, & Company. (See Phillips, John E., assignor.)
- Pick, Israel, Konigsberg, Germany. Manufacture of partition and like building blocks. 1,734,826; Nov. 5.
- Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical condenser and process. 1,706,816; Mar. 26.
- Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Radio apparatus. 1,708,453; Apr. 9.
- Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Radio apparatus. 1,718,431; June 25.
- Pickard, Robert H., D. J. Lloyd, and A. E. Caunce, London, England. Production of leather. 1,715,621; June 4.
- Pickard, Robert H., D. J. Lloyd, and A. E. Caunce, London, England. Manufacture of leather. 1,715,622; June 4.
- Pickard, Robert H., D. J. Lloyd, and A. E. Caunce, London, England, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of chrome-tanned leather for dyeing. 1,715,623; June 4.
- Pickard, Rosa M., Wilmette, Ill. Doorstop. Des. 79,937; Nov. 19.
- Pickard, Rosa M., Wilmette, Ill. Doorstop. Des. 79,938; Nov. 19.
- Pickard, Rosa M., Wilmette, Ill. Doorstop. Des. 79,982; Nov. 26.
- Pickard, William, Philadelphia, Pa. Pile wire. 1,737,516; Nov. 26.
- Pickel, Georg, Chemnitz, Germany. Spring brake for warp beams of looms. 1,697,084; Jan. 1.
- Picken, William J. (See Franklin, C. S., Picken, and Robb.)
- Picker, Sidney, assignor to The Crystal Chemical Company, Inc., New York, N. Y. Face powder. 1,707,684; Apr. 2.
- Picker, Sidney, assignor to Crystal Chemical Company, Inc., New York, N. Y. Container cap. 1,724,963; Aug. 20.
- Pickering, Albert V., assignor to Townsend Manufacturing Corporation, West Townsend, Mass. Oil-burning device. 1,714,569; May 28.
- Pickering Governor Co., The. (See Crafts, Irving M., assignor.)
- Pickering, Hayden M., Hibbing, Minn. Shoe. 1,697,019; Jan. 1.
- Pickering, Lafayette, assignor to The Columbus Dental Mfg. Co., Columbus, Ohio. Display holder for artificial teeth. 1,702,312; Feb. 19.
- Pickering, Leon Q., Lake Mary, Fla. Gasoline-tank filler pipe and closure. 1,740,522; Dec. 24.
- Pickett, Lyman O., Binghamton, assignor to Endicott Johnson Corporation, Endicott, N. Y. Textile fabric or the like. Des. 79,339; Sept. 3.
- Pickett, Ralph A., Madison, Kans. Oil-well pump jack. 1,707,137; Mar. 26.
- Pickhaver, Richard, assignor to Sons-Cunningham Reed & Rattan Co., Inc., New York, N. Y. Frame of a chair or similar article. Des. 79,384; Sept. 10.
- Pickin, Rowland O., Los Angeles, Calif. Roller drill. 1,720,401; July 9.
- Pickin, Rowland O., Los Angeles, Calif. Well-drilling tool. 1,725,298; Aug. 20.
- Pickin, Rowland O., Los Angeles, Calif. Well reamer. 1,725,299; Aug. 20.
- Pickop, George B., New Haven, Conn. Metal shipping container. 1,715,782; June 4.
- Pickop, George B., New Haven, assignor to Malleable Iron Fittings Company, Branford, Conn. Percussion tool. 1,713,551; May 21.
- Pickop, George B., New Haven, assignor to The Malleable Iron Fittings Company, Branford, Conn. Sand riddle. 1,720,688; July 16.
- Pickop, George B., New Haven, assignor to Malleable Iron Fittings Company, Branford, Conn. Vibrator table. 1,734,020; Oct. 29.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Heater. Des. 77,499; Jan. 15.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Circulating heating stove. Des. 80,047; Dec. 3.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Circulating heating stove. 1,720,689; July 16.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Heating stove. 1,723,629; Aug. 6.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Liquid-fuel cookstove. 1,740,745; Dec. 24.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Liquid-fuel cookstove. 1,740,746; Dec. 24.
- Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Range. 1,742,008; Dec. 31.
- Pico, John, Fort Logan, Mont. Combined can opener, sealer, and handle. 1,718,703; June 25.
- Picquerez, Emile, St. Cloud, assignor to Societe Anonyme des Etablissements Tecalemit, Paris, France. Resilient joint and making. 1,732,657; Oct. 22.
- Picture Machine Service Corporation. (See Gottschau, Christian M., assignor.)
- Pidel, Frank, Yonkers, N. Y. Spotting and sighting device for anti-aircraft guns. 1,708,397; Apr. 9.
- Piel, Carl. (See Adey, C., and Piel.)
- Piepenburg, Max G. (See Bruhn, M. C., and Piepenburg.)
- Pieper, Alphonse F., et al. (See Meitzler, Charles R., assignor.)
- Pieper, Alphonse F. (See Pieper, Oscar H., assignor.)
- Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
- Pieper, Alphonse F., Rochester, N. Y. Dental equipment apparatus. 1,734,744; Nov. 5.
- Pieper, Ernest J. (See Vogt, C. C., and Pieper.)
- Pieper, Henri, Brussels, Belgium. Brake mechanism. 1,709,150; Apr. 16.
- Pieper, Oscar H., et al. (See Meitzler, Charles R., assignor.)
- Pieper, Oscar H., Rochester, N. Y. Combined tool handle and switch. 1,723,371; Aug. 6.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Unitary dental apparatus. 1,697,287; Jan. 1.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Dental apparatus. 1,719,806; July 2.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Dental equipment stand. 1,724,775; Aug. 13.
- Pieper, Oscar H., assignor to himself and A. F. Pieper, Rochester, N. Y. Dental instrument structure. 1,711,639; May 7.
- Piepmeyer & Co. Kommanditgesellschaft. (See Gella, Norbert, assignor.)
- Pier, Bernice, Nokomis, Ill. Boudoir cap. 1,701,984; Feb. 12.
- Pier, Mathias, Heidelberg, and K. Winkler, Ludwigshafen-on-Rhine, assignors to L. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of carbon disulphide. 1,735,409; Nov. 12.
- Pierce, Aldrid, San Antonio, Tex. Storage-battery connector. 1,728,868; Sept. 17.
- Pierce-Arrow Motor Car Company, The. (See Hughes, James R., assignor.)
- Pierce, Burt N., New York, N. Y. Oil can. 1,728,215; Sept. 17.
- Pierce, C. S., Company. (See Legge, Alfred G., assignor.)
- Pierce, C. S., Company. (See Legge, A. G., and Alger, assignors.)
- Pierce Development Company, The. (See Hoffman, Benjamin P., assignor.)
- Pierce, Earl F., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,704,338; Mar. 5.
- Pierce, Earl F., Winnetka, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,716,504; June 11.
- Pierce, Earl F., Winnetka, and J. B. Nims, assignors to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressors. 1,720,376; July 9.
- Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Golf bag. 1,703,540; Feb. 26.
- Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Playing ball. 1,705,096; Mar. 12.
- Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Basket ball. 1,718,305; June 25.
- Pierce, Hodgson S. (See Muffy, G., and Pierce.)
- Pierce, Hodgson S., assignor to E. A. Nelson, Detroit, Mich. Connecting rod. 1,734,690; Nov. 5.
- Pierce, Homer R. (See Dunn, I. L., Lewis, and Pierce.)
- Pierce, James B., jr., Charleston, W. Va. Making pigments. 1,715,384; June 4.
- Pierce, John J., Rockford, Ill. Railroad-tie-adsing machine. 1,727,557; Sept. 10.
- Pierce, Leon, assignor to Pierce Steel Pile Corporation, New York, N. Y. Building-pile form. Re17,367; July 9.
- Pierce, Nelson C. (See Sautter, William R., assignor.)
- Pierce, Oscar H., Toronto, Ontario, Canada. Ticket-marking holder. 1,707,367; Apr. 2.
- Pierce, Oscar H., Toronto, Ontario, Canada. Holder for marking tickets. 1,740,832; Dec. 24.
- Pierce, Paul H., Westfield, N. J., and W. J. Means, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rotary mercury interrupter. 1,711,689; May 7.
- Pierce Petroleum Corporation. (See Finlay, James W., assignor.)
- Pierce, Ralph A. (See Clausen, I. M., and Pierce.)
- Pierce, Raymond T., Millburn, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,699,807; Jan. 22.
- Pierce, Raymond T., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,705,678; Mar. 19.



- Pierce Renewable Fuses, Inc. (See Clemens, John G., assignor.)
- Pierce, Robert C., Niles, Mich., assignor to National Standard Company. Tire-bead-reinforcing element. 1,703,593; Feb. 26.
- Pierce, Robert C., Niles, Mich., assignor to American Chain Company. Bead-tape-weaving machine. 1,718,832; June 25.
- Pierce, Robert E. (See Carpenter, A. C., Pierce, Brady, and Howes.)
- Pierce, Robert E., assignor to Bemis Bro. Bag Co., St. Louis, Mo. Expandable joint for linings of fabric bags and tubes and making same. 1,702,593; Feb. 19.
- Pierce Steel Pile Corporation. (See Pierce, Leon, assignor.)
- Pierce, Walter H., Watertown, assignor, by mesne assignments, to United Carr Fastener Corporation, Cambridge, Mass. Fastener. 1,742,169; Dec. 31.
- Pierce, William S., assignor to Keystone Specialty Company, Keystone Heights, Fla. Universal-joint attachment. 1,733,072; Oct. 22.
- Pierch, Kurt. (See Luther, M., and Pierch.)
- Piercy Company, The. (See Robinson, Herand, assignor.)
- Pieri, Pompeo, New York, N. Y. Earthquake and tornado proof building. 1,706,496; Mar. 26.
- Pieri, Raymond C., sr., Belzoni, Miss. Portable screen camping outfit. 1,702,170; Feb. 12.
- Pieroh, Kurt. (See Luther, M., and Pieroh.)
- Pierson, Charles A., assignor to The Standard Electric Stove Company, Toledo, Ohio. Oven front. 1,700,177; Jan. 29.
- Pierson, Charles A., assignor to The Standard Electric Stove Co., Toledo, Ohio. Electric stove. 1,700,543; Jan. 29.
- Pierson, Charles A., assignor to The Standard Electric Stove Co., Toledo, Ohio. Water heater. 1,731,058; Oct. 8.
- Pierson, John A., Melrose Highlands, assignor to George H. Gilman, Belmont, Mass. Drilling machine. 1,738,151; Dec. 3.
- Pierson, Paul R. (See Cravey, J. B., and Pierson.)
- Pierson, William D., and F. S. Van Valkenburg, assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Press. 1,725,300; Aug. 20.
- Pierson, William F., Grand Island, Nebr. Window-sash holder. 1,704,869; Mar. 12.
- Pierson, William H., assignor to Briggs Manufacturing Company, Detroit, Mich. Spot-welding apparatus. 1,703,541; Feb. 26.
- Pierson, William H., assignor to Briggs Manufacturing Company, Detroit, Mich. Welding apparatus. 1,739,691; Dec. 17.
- Piesch, Henry. (See Mohun, J. L., and Piesch.)
- Pietrie, Joseph, Chicago, Ill. Padlock. 1,698,201; Jan. 8.
- Pietzsch, Frank H. (See Habenicht, F. K., and Pietzsch.)
- Pietzsch, Frank H., assignor to Railway Devices Company, St. Louis, Mo. Brake mechanism for railway cars. 1,724,512; Aug. 13.
- Pietzsch, Kurt F., assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Filter. 1,741,334; Dec. 31.
- Pifer, Ernest C., Huntington, W. Va. Display receptacle. 1,711,030; Apr. 30.
- Pifer, George N., Cleveland, Ohio, assignor to American Phototure Company, New York, N. Y. Photographic developing process and temperature regulation. 1,728,361; Sept. 17.
- Pignaneli, Luigi, Tacoma, Wash. Shoe. 1,737,679; Dec. 3.
- Pigeon, Fred L. (See McArdle, Fred W., assignor.)
- Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)
- Pigott, Thomas F., Brooklyn, N. Y., assignor to Riley Stoker Corporation, Worcester, Mass. Distributing device. 1,724,309; Aug. 13.
- Pijakowski, Walter, Chicago, Ill. Alarm signal system. 1,700,950; Feb. 5.
- Pike, Clinton B., Birmingham, Ala. Vibrating apparatus and its utilization for removing patterns and castings from sand molds. 1,704,100; Mar. 5.
- Pike, Frank A., Rochester, N. Y. System of draining. 1,734,777; Nov. 5.
- Pike, Frederick J., Beckenham, and C. J. Lyth, Woolwich, London, assignors to J. Stone & Company Limited, Deptford, England. Apparatus for use in the electrolytic deposition of metal on metal tubes. 1,738,727; Dec. 10.
- Pike, Frederick H., assignor, by mesne assignments, to The General Asbestos and Rubber Company, Charleston, S. C. Rod or stem packing. 1,700,746; Feb. 5.
- Pike, George, Grand Rapids, Mich., assignor to The Herschede Hall Clock Company, Cincinnati, Ohio. Clock case. Des. 78,653; May 28.
- Pike, Harry H. (See Gottschall, C. R., and Pike.)
- Pike, John A., Los Angeles, Calif. Hammer claw. 1,713,552; May 21.
- Pike, Otis W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,699,119; Jan. 15.
- Pike, Otis W., Schenectady, N. Y., assignor to General Electric Company. Vacuum tube. 1,717,251; June 11.
- Pike, Robert D., Piedmont, L. V. Steck, Oakland, and R. Cummings, Berkeley, Calif.; said Steck and said Cummings assignors to said Pike. Production of potassium carbonate. 1,716,663; June 11.
- Pike, Thomas C., assignor to The Geo. W. Grimes Co., Bluffton, Ind. Pipe patch. 1,728,250; Sept. 17.
- Pike, Vernon B., Cheltenham, Pa., and E. St. John, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Producing insulating sleeves. 1,710,786; Apr. 30.
- Pike, Vernon B., Cheltenham, Pa., and E. St. John, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Producing insulating sleeves. 1,710,787; Apr. 30.
- Pilard, Paul. (See Noyer, F., and Pilard.)
- Pilat, Frank J., and P. A. Calgan, Chicago, Ill. Supporting bracket. 1,736,218; Nov. 19.
- Pilblad, Eric J., Brooklyn, assignor, by mesne assignments, to Leopard Automobile Products Corporation, New York, N. Y. Spring-suspension device for vehicles. 1,723,251; Aug. 6.
- Pilblad, Eric J., Rockville Center, assignor, by mesne assignments, to Leopard Automobile Products Corporation, New York, N. Y. Vehicle suspension device. 1,723,252; Aug. 6.
- Pilcher, John A., and J. A. Doarnberger, Roanoke, Va. Steam boiler. 1,737,385; Nov. 26.
- Pile, Clarence E., Parsons, Kans. Wrench. 1,713,480; May 14.
- Pile, Otus P., and G. W. Forgy, Cowan, Tenn. Counter dispensing device. 1,706,321; Mar. 19.
- Pilkington Brothers Limited. (See Armstrong, Alan, assignor.)
- Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)
- Pilkington, John T., Vancouver, British Columbia, Canada. Clothesline-supporting means. 1,699,630; Jan. 22.
- Pilling, Charles J., Lansdowne, assignor to The George P. Pilling & Son Company, Philadelphia, Pa. Stethoscope. 1,703,898; Apr. 9.
- Pilling, George P., & Son Company, The. (See Pilling, Charles J., assignor.)
- Pillion, Nicolas L., Nice, France. Electro-magnetic stepping mechanism. 1,728,135; Sept. 10.
- Pilmore-Bedford, Daniel J. (See Pilmore-Bedford, Frank and D. J.)
- Pilmore-Bedford, Frank, and D. J. Pilmore-Bedford, Catford, London, England. Liquid-delivery device. 1,727,743; Sept. 10.
- Pilot Electric Manufacturing Company. (See Geloso, John, assignor.)
- Pilot Electric Manufacturing Company, The. (See Horton, Charles, assignor.)
- Pilot Laboratory, Inc. (See Kokatnur, V. R., and Turnbull, assignors.)
- Pilot Laboratory, Inc. (See Stoddard, W. B., and Kokatnur, assignors.)
- Pilot Radio & Tube Corporation. (See Geloso, John, assignor.)
- Pilot Ray Corporation. (See Keck, George S., assignor.)
- Pils, Henry J., Waskish, Minn. Snowplow. 1,704,016; Mar. 5.
- Pillsworth, David. (See West, Horatio G., assignor.)
- Piltzer, Morris, Los Angeles, Calif. Desk accessory. 1,733,388; Oct. 29.
- Pimm, Charles C., et al. (See Kingston, Thomas H., assignor.)
- Pimm, Charles C., Somerville, Mass. Putlog. 1,698,508; Jan. 8.
- Pinaglia, Vito G., West Haven, Conn. Supported and braced crypt lamp. Des. 80,048; Dec. 3.
- Pinard, Antoine B., San Jose, Calif. Shipping cage for bees. 1,727,078; Sept. 3.
- Pinaud Incorporated. (See Michelin, Marcel M., assignor.)
- Pinckney, Charles C., Birmingham, Ala., assignor to Birmingham Tank Company. Method and apparatus for constructing cylindrical tanks. 1,740,033; Dec. 17.
- Pinckney, Charles C., Birmingham, Ala., assignor to Birmingham Tank Company. Welding apparatus. 1,740,117; Dec. 17.
- Pinder, Jarvis P., Johnstown, Pa., assignor to Bethlehem Steel Company. Coke-quenching car. 1,697,475; Jan. 1.
- Pine-Ihrig Machine Co. (See Wyman, William H., assignor.)
- Pine Waste Products, Inc. (See Wallace, Joseph H., assignor.)
- Pinel, Alfred P. J., Quincy, Mass. Locking mechanism for the steering wheels of vehicles, etc. 1,700,376; Jan. 29.
- Pine-O-Pine Company. (See Hager, L., and Popperman, assignors.)
- Pines Winterfront Company. (See Irving, Frank J., assignor.)
- Pines Winterfront Company. (See McCaleb, Albert G., assignor.)
- Pines Winterfront Company. (See Pipenhagen, Charles A., assignor.)
- Pines Winter-Front Company. (See Raleigh, James F., assignor.)
- Pineschi, Lamberto, and A. Quintiliani, Rome, Italy. Pneumatic vibrating capsule. 1,714,443; May 21.
- Pingry, Louisa J., Tulsa, Okla. Mattress protector. 1,710,591; Apr. 23.
- Pinheiro, John B., Oakland, Calif. Baby carriage. 1,703,208; Feb. 26.
- Pink, Edward F., Cambridge, Md. Wire fabric. 1,707,567; Apr. 2.
- Pink, Edward F., Cambridge, Md. Wire fabric. 1,735,788; Nov. 12.



- Pink, Frank, Portsmouth, England. Separating liquids and means therefor. 1,698,002; Jan. 8.
- Pink, Frank, Portsmouth, England. Apparatus for separating liquids of different specific gravity. 1,698,067; Jan. 8.
- Pinkerton, Clarence S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and apparatus for controlling the quality or total heating value of a flowing mixture of fluids. 1,704,101; Mar. 5.
- Pinkerton, Frederick O., et al. (See Renwick, Frederick W., assignor.)
- Pinkerton, Peter C., Indianapolis, Ind. Automobile locking device. 1,700,989; Feb. 5.
- Pinkerton, Peter C., Indianapolis, Ind. Automobile locking device. 1,725,158; Aug. 20.
- Pinkerton, Peter C., Indianapolis, Ind. Automobile locking device. 1,739,648; Dec. 17.
- Pinkham, Henry P., Wollaston, assignor to Conduit Electric Manufacturing Corporation, South Boston, Mass. Gas and liquid separator. 1,737,680; Dec. 3.
- Pinkney, Bryan D., assignor to H. B. Smith Machine Company, Smithville, N. J. Brake for sanders. 1,715,385; June 4.
- Pino, Vicente, New York, N. Y. Stippling machine. 1,723,206; Aug. 6.
- Pinsuti, Giuseppe F., New York, N. Y. Molding machine. 1,708,106; Apr. 9.
- Pintel, Bessie, Arlington, N. J. Holder for cakes or pads of steel wool. 1,723,520; Aug. 6.
- Pioch, Frank J., San Francisco, Calif. Electric heater. 1,708,237; Apr. 9.
- Pioch, Frank J., San Francisco, Calif. Radiant electric heater. 1,739,649; Dec. 17.
- Piombo, Sebastiano, San Francisco, Calif. Sacking stand. 1,700,717; Jan. 29.
- Pioneer Instrument Company. (See Colvin, C. H., and Titterington, assignors.)
- Pioneer Instrument Company, The. (See Drexler, Franz, assignor.)
- Pioneer Instrument Company, The. (See Sperry, Lawrence B.)
- Pioneer Instrument Company. (See Titterington, Morris M., assignor.)
- Pioneer Manufacturing Company. (See Mould, James A., assignor.)
- Pioneer Pearl Button Company. (See Knott, Warren E., assignor.)
- Pioneer Radio Corporation, The. (See Simeral, Raymond S., assignor.)
- Pioneer Rubber Company, The. (See Coovert, Richard H., assignor.)
- Pioneer Rubber Company, The. (See Gibson, John C., assignor.)
- Pioneer Suspender Company. (See Peter, Henry A., assignor.)
- Pipe & Tube Bending Corporation of America. (See Neuberth, George E., assignor.)
- Pipenhagen, Charles A., assignor to Pines Winterfront Company, Chicago, Ill. Radiator-shutter control. 1,712,519; May 14.
- Piper, Ralph S., Chicago, Ill. Transformer. 1,698,608; Jan. 8.
- Piper, Ralph S., Chicago, Ill. Inductive coupling device. 1,698,609; Jan. 8.
- Piper, Ralph S., Chicago, Ill. Variable reactive coupling winding. 1,730,240; Oct. 1.
- Piper, Ralph S., Chicago, Ill. Electrical connector. 1,734,145; Nov. 5.
- Piper, Walter F. (See Beardsley, E. O., and Piper.)
- Piper, Walter E., Sudbury, and G. L. Lawrence, Melrose, Mass. Garter. 1,720,291; July 9.
- Piperoux, Rene P. (See Buttrick, W. M., and Piperoux.)
- Piperoux, Rene P., Westwood, N. J., assignor to Celluloid Corporation. Tray or similar article. Des. 78,783; June 18.
- Piperoux, Rene P., Westwood, N. J., assignor to Celluloid Corporation. Toilet receptacle or similar article. Des. 78,784; June 18.
- Piperoux, Rene P., Westwood, N. J., assignor to Celluloid Corporation. Mirror or similar article. Des. 79,480; Sept. 24.
- Pipes, Pliny P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail bond. 1,702,130; Feb. 12.
- Pipes, Pliny P., assignor to The Ohio Brass Company, Mansfield, Ohio. Apparatus for and method of connecting cables. 1,707,317; Apr. 2.
- Pipes, Walter L., Elizabeth, N. J., assignor to The Shoe Hardware Company, Waterbury, Conn. Multiple fastening device. 1,701,083; Feb. 5.
- Pipes, Walter L., Elizabeth, N. J., assignor to The Good-year's India Rubber Glove Mfg. Company, Naugatuck, Conn. Lacing closure. 1,713,714; May 21.
- Pipes, Walter L., Elizabeth, N. J., assignor to The Shoe Hardware Co., Waterbury, Conn. Multiple-fastening device. 1,714,726; May 28.
- Pipher, Homer C., Oakland, Calif. Hose coupling. 1,726,238; Aug. 27.
- Pipkin, Marvin, Cleveland Heights, Ohio, assignor to General Electric Company. Colored or diffusing coating for incandescent lamps and similar articles. 1,706,182; Mar. 19.
- Pipkin, Marvin, Cleveland Heights, Ohio, assignor to General Electric Company. Apparatus for frosting glass articles. 1,718,487; June 25.
- Pipkin, Wilbur A. (See Van Horn, I. H., and Pipkin.)
- Pipp, Charles E., assignor to Angle Steel Stool Company, Inc., Plainwell, Mich. Chair and clamp for parts thereof. 1,701,273; Feb. 5.
- Pippen, Charles F., and E. B. Ormsby, Long Beach, Calif. Traveling block. 1,734,047; Nov. 5.
- Pippy, George F., East Orange, N. J., assignor to American Throttle Company, Inc., New York, N. Y. Multiple throttle for locomotives. 1,710,948; Apr. 30.
- Pippy, George F., East Orange, N. J., assignor to American Throttle Company, Inc., New York, N. Y. Multiple throttle for locomotives. 1,718,376; June 25.
- Pique, Charles, New Orleans, La. Hasp and lock. 1,726,162; Aug. 27.
- Piquerez, Achille, New York, N. Y. Window. 1,734,530; Nov. 5.
- Piquerez, Emile, Paris, France, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Automatic charge-limiting device for lubrication. 1,707,993; Apr. 9.
- Piquerez, Emile, Paris, France, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,711,905; May 7.
- Piquerez, Emile, Paris, France, assignor to Alemite Corporation, Chicago, Ill. Double-acting lubricant compressor. 1,723,253; Aug. 6.
- Piquet, Henri, Jacksonville, assignor of one-half to F. P. Jones, Grand Crossing, Fla. Electrical alarm for thermostats. 1,731,937; Oct. 15.
- Pirani, Marcello, Berlin-Wilmersdorf, assignor to Patent-Treuhand-Gesellschaft fuer Elektrische Gluehlampen, Berlin, Germany. Manufacture of translucent hollow glass articles, particularly of milk-glass bulbs for electric incandescent lamps. 1,713,394; May 14.
- Pirani, Marcello, Berlin-Wilmersdorf, Germany, assignor to General Electric Company. Lamp filament. 1,726,365; Aug. 27.
- Pirchio, Pasquale, South Bend, Ind. Air filter. 1,739,372; Dec. 10.
- Pirelli & C. (See Emanuelli, Luigi, assignor.)
- Piron Coal Distillation Systems, Inc. (See Piron, Emil, assignor.)
- Piron Coal Distillation Systems, Inc. (See Piron, E., and Caracristi, assignors.)
- Piron, Emil, New York, N. Y. Distillation apparatus. 1,733,750; Oct. 29.
- Piron, Emil, assignor to Piron Coal Distillation Systems, Inc., New York, N. Y. Purifying gases. 1,701,054; Feb. 5.
- Piron, Emil, New York, and V. Z. Caracristi, Bronxville, assignors to Piron Coal Distillation Systems, Inc., New York, N. Y. Apparatus for distillation. 1,709,370; Apr. 16.
- Piron, Emil, New York, and V. Z. Caracristi, Bronxville, assignors to Piron Coal Distillation Systems, Inc., New York, N. Y. Apparatus for distilling solids. 1,709,371; Apr. 16.
- Pirrone, Antonio L. M., New Kensington, Pa., assignor of forty-five per cent to S. Edelson of Pennsylvania. Non-skidding automobile wheel. 1,715,145; May 28.
- Pirsch, Peter, assignor to Peter Pirsch and Sons Co., Kenosha, Wis. Folding ladder. 1,719,997; July 9.
- Pirsch, Peter, and Sons Co. (See Pirsch, Peter, assignor.)
- Pischel, Henry E., et al. (See Hixson, Charles T., assignor.)
- Piscdrillo, Giovanni. (See Furcolo, Ciriachino, assignor.)
- Pistocco, Veno L., Wichita Falls, Tex. Affixing lettering to woven mesh fabric. 1,729,842; Oct. 1.
- Piston Ring Company. (See Johnson, Charles E., assignor.)
- Pistoni, Enrico and L., Milan, Italy. Coffee-making apparatus. 1,736,460; Nov. 19.
- Pistoni, Lorenzo. (See Pistoni, Enrico and L.)
- Pistor, Gustav, Leipzig, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Refining magnesium and its alloys. 1,720,436; July 9.
- Pistor, Gustav, H. Lang, and R. Suchy, Bitterfeld, assignors to the firm I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of phosphorus pentoxide and phosphoric acid. 1,700,708; Jan. 29.
- Pitcairn, Harold F. (See Brewer, Robert W. A., assignor.)
- Pitcairn, Harold F., Bryn Athyn, Pa. Helicopter-control mechanism. 1,701,762; Feb. 12.
- Pitcairn, Harold F., Bryn Athyn, Pa. Helicopter device. 1,715,427; June 4.
- Pitcairn, Harold F., Bryn Athyn, Pa. Aircraft device. 1,718,577; June 25.
- Pitcher, Elmer C., Oakland, Calif. Truck-hoisting crane. 1,724,411; Aug. 13.
- Pitcher, Roy E., Henryetta, Okla. Rolling screen. 1,736,668; Nov. 19.
- Pitkin, Arthur F., Schenectady, N. Y. Applying stay bolts. 1,698,892; Jan. 15.
- Pitkin, Arthur F., Schenectady, N. Y. Die for making steam-boiler stay bolts. 1,718,377; June 25.
- Pitkin, Solomon, New York, N. Y. Finger and back strap for hand bags. 1,735,655; Nov. 12.
- Pitman, Charles W., assignor to Railway Track Work Company, Philadelphia, Pa. Track grinder. 1,735,693; Nov. 12.
- Pitman, Paul A., Quincy, Mass. Apparatus for making small castings. 1,723,071; Aug. 6.
- Pitman, Stanwood Co. (See Allen, H. N., and Pitman.)



- Pitney, Arthur H., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Registering mechanism for postage-meter machines. 1,699,200; Jan. 15.
- Pitney, Arthur H., and J. W. Ogden, assignors to Pitney-Bowes Postage Meter Company, Stamford, Conn. Printing and registering mechanism. 1,721,790; July 23.
- Pitney-Bowes Postage Meter Company. (See Ogden, J. W., Lund, and Wheeler, assignors.)
- Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.)
- Pitney-Bowes Postage Meter Company. (See Pitney, A. H., and Ogden, assignors.)
- Pitney-Bowes Postage Meter Company. (See Poor, Frederick E., assignor.)
- Pitney-Bowes Postage Meter Company. (See Wheeler, Walter H., Jr., assignor.)
- Pitney, Earl H., Chicago, Ill. Combination flash light and telescope. 1,740,314; Dec. 17.
- Pitou, Eugene, assignor to American Safety Device Co., New York, N. Y. Landing stage. 1,740,958; Dec. 24.
- Pitt, Frederick D., Kansas City, Mo. Electric-sign socket. 1,728,251; Sept. 17.
- Pitt, Frederick D., assignor to The Anderson-Pitt Corporation, Kansas City, Mo. Heating element. 1,710,512; Apr. 23.
- Pitt, Gordon, assignor to P. and F. Engineering Syndicate Limited, London, England. Rotary engine. 1,741,072; Dec. 24.
- Pitt, Guy L., Rocky Mount, N. C. Draining device. 1,699,159; Jan. 15.
- Pittman, Mortimer H., Atlanta, Ga. Indicating demand flow meter. 1,727,442; Sept. 10.
- Pittman, Philip W., Durango, Colo. Sawing machine. 1,735,178; Nov. 12.
- Pittcock, John W. (See Powling, William T., assignor.)
- Pittoni, Louis E., Jamaica, assignor to The Rome Company, Inc., Rome, N. Y. Spring construction. 1,732,588; Oct. 22.
- Pittoni, Louis E., Jamaica, N. Y., assignor to The Rome Company, Inc. Tufted mattress. 1,741,790; Dec. 31.
- Pitts, Edmund M., assignor to Sunland Sales Cooperative Association, Fresno, Calif. Advertising device. 1,739,801; Dec. 17.
- Pitts, John H., Dallas, Tex. Fountain brush. 1,701,795; Feb. 12.
- Pittsburgh Coal Washer Company. (See Llewellyn, L., and Kenney, assignors.)
- Pittsburgh Equitable Meter Company. (See Armstrong, James R., assignor.)
- Pittsburgh Equitable Meter Company. (See Chrisman, Horace, assignor.)
- Pittsburgh Forgings Company. (See Stocking, Walter H., assignor.)
- Pittsburgh Plate Glass Company. (See Cannon, Dominic F., assignor.)
- Pittsburgh Plate Glass Company. (See Fox, John H., assignor.)
- Pittsburgh Plate Glass Company. (See Green, James, assignor.)
- Pittsburgh Plate Glass Company. (See Harrington, Alfred L., assignor.)
- Pittsburgh Plate Glass Company. (See Henderson, Chester E., assignor.)
- Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
- Pittsburgh Plate Glass Company. (See Koupal, W. G., and Gregorius, assignors.)
- Pittsburgh Plate Glass Company. (See Koupal, W. G., and Redshaw, assignors.)
- Pittsburgh Plate Glass Company. (See Lytle, William O., assignor.)
- Pittsburgh Plate Glass Company. (See Moxley, Claud, assignor.)
- Pittsburgh Plate Glass Company. (See Owen, William, assignor.)
- Pittsburgh Plate Glass Company. (See Raleigh, W. P., and Dickey, assignors.)
- Pittsburgh Plate Glass Company. (See Showers, Lee, assignor.)
- Pittsburgh Plate Glass Company. (See Sweet, John A., assignor.)
- Pittsburgh Screw & Bolt Company. (See Dicks, Thomas A., assignor.)
- Pittsburgh Screw & Bolt Company. (See Peirce, William B., assignor.)
- Pittsburgh Screw and Bolt Corporation. (See Smith, George S., assignor.)
- Pittsburgh Steel Company. (See Benedict, Edward L., assignor.)
- Pittsburgh Steel Drum Company. (See McCrery, Harold E., assignor.)
- Pittsburgh Taximeter Company. (See Richert, Paul, assignor.)
- Pittsburgh Transformer Company. (See Hodtun, Joseph B., assignor.)
- Pittsburgh Transformer Company. (See Horelick, Samuel, assignor.)
- Pittsburgh Transformer Company. (See McClintock, Louis G., assignor.)
- Pittsburgh Transformer Company. (See Roberts, Clifford A., assignor.)
- Pittsburgh Valve and Fittings Company. (See Strom, Olaf S., assignor.)
- Pittsburgh Valve and Fittings Company. (See Wagner, Frank, assignor.)
- Pittsburg Water Heater Company. (See Kolts, John H., assignor.)
- Pittsfield Machine & Tool Company, The. (See Baker, Richard D., assignor.)
- Pittston Home Helps Manufacturing Company. (See Frank, James, assignor.)
- Piver, William C., Hillside, assignor to F. M. Simpson, East Orange, N. J. Manufacturing commercial calcium arsenate. 1,727,306; Sept. 3.
- Pivetz, Alois, Fall River, Mass. Jacquard weaving machine. 1,714,444; May 21.
- Pivin, Josef, Duren, Germany. Polishing of glass surfaces. 1,697,609; Jan. 1.
- Pivoto, Felix L., Beaumont, Tex. Valve mechanism. Re17,206; Feb. 5.
- Pivoto, Felix L., Beaumont, Tex. Valve mechanism. Re17,424; Sept. 3.
- Pivonski, Stanley, Colgate, and F. J. Canitz, Jr., Baltimore, Md., assignors to Anchor Post Fence Company, Jersey City, N. J. Fastening wire fabrics to fence or gate posts and the like. 1,738,609; Dec. 10.
- Piwowsky, Eugen, Aachen, assignor to Edulgussverband G. m. b. H., Berlin-Dahlem, Germany. Manufacture of a highly-valuable cast iron. 1,705,995; Mar. 19.
- Piwowsky, Eugen, Aachen, assignor to the firm: Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Obtaining cast iron. 1,715,509; June 4.
- Pixley, John H., assignor of one-half to A. Drall, Lansing, Mich. Hitch. 1,737,058; Nov. 26.
- Pizzorno, Carlo, Genoa, Italy. Power loom in order to obtain brocades therefrom. 1,736,360; Nov. 19.
- Pizzutos, Connie E., New York, N. Y. Towel rack. 1,709,738; Apr. 16.
- Plaatz, Carl, Cologne-Nippes, Germany. Treating rubber films. 1,698,275; Jan. 8.
- Place, Bion C., assignor of one-half to G. E. Gagnier, Detroit, Mich. Securing trim panels. 1,722,944; July 30.
- Place, Charles E. S., assignor of one-half to S. F. Marsden, Manchester, England. Lock nut for bolts and the like. 1,734,445; Nov. 5.
- Place, William H., Jr., Providence, R. I. Banjo-tone modifier. 1,701,420; Feb. 5.
- Plack, Henry E., Towson, Md. Can opener. 1,724,722; Aug. 13.
- Plaisted, Harold M., St. Louis, Mo. Separator. 1,724,041; Aug. 13.
- Plamondon, Ernest, et al. (See Massé, Albert, assignor.)
- Planell, Fernando C., Sabadell, Spain. Scouring machine for washing fabrics of wool and its mixtures. 1,706,349; Mar. 19.
- Planert, Emil J. P., Union City, N. J. Humidifier. 1,736,799; Nov. 26.
- Plank, Albert E., Pasadena, Calif. Eradicating oil and grease from floors and driveways. 1,723,521; Aug. 6.
- Plant, Edward E., assignor of one-half to C. Petersen, San Francisco, Calif. Tank-level signal. 1,704,761; Mar. 12.
- Plant, Frank W., London, England. Folding table, dinner, or tea wagon, and the like. 1,733,029; Oct. 22.
- Plantade, Bernard. (See Dubois, J., and Plantade.)
- Plante, Arthur N., Hartford, Conn. Wrench. 1,725,301; Aug. 20.
- Plante, Arthur N., Hartford, Conn. Combination tool. 1,735,011; Nov. 12.
- Planters Nut & Chocolate Company. (See Peruzzi, Mario, assignor.)
- Platin, Ernst V., Jonkoping, assignor to Husqvarna Vapenfabriks Aktiebolag, Husqvarna, Sweden. Dough-kneading machine. 1,699,916; Jan. 22.
- Plantinga, Pierre, deceased, Cleveland, Ohio. The Cleveland Trust Company, executor. Process of and apparatus for carbonizing material containing oil, fat, tar, or the like. 1,738,202; Dec. 3.
- Plass, Robert H., Upper Montclair, N. J., assignor to The Daisy Products, Inc., New York, N. Y. Machine for applying reinforcements to bags or the like. 1,723,072; Aug. 6.
- Plass, Robert H., Upper Montclair, N. J., assignor to Poloris Company, Inc., New York, N. Y. Carton feeding and setting-up mechanism. 1,727,729; Sept. 10.
- Plassmann, Josef, assignor to Chemisch-Technische Gesellschaft m. m. H., Duisburg, Germany. Retort for carbonizing bituminous fuels. 1,737,681; Dec. 3.
- Plastic, Inc. (See Burgess, Laurie L., assignor.)
- Plastic, Inc. (See Kennedy, Arthur L., assignor.)
- Plastoid Products, Inc. (See Greenleaf, R. M., and Routt, assignors.)
- Plath, Walter H., Terry, Mont. Grain-car door. 1,732,378; Oct. 22.
- Platt, Archie W., deceased, by H. R. Platt, Toledo, administrator, assignor to The Edward Ford Plate Glass Co., Rossford, Ohio. Rearwardly-acting stowing mechanism. 1,731,318; Oct. 15.
- Platt, Archie W., deceased, by H. R. Platt, Toledo, administrator, assignor to The Edward Ford Plate Glass Co., Rossford, Ohio. Stowing mechanism. 1,731,319; Oct. 15.
- Platt, Archie W., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Glass-polishing apparatus. 1,732,695; Oct. 22.
- Platt, Archie W., Toledo, assignor to The Edward Ford Plate Glass Company, Rossford, Ohio. Framework for glass-polishing units or the like. 1,735,410; Nov. 12.



- Platt Brothers and Company Limited et al. (See Oxley, Arthur E., assignor.)
- Platt Brothers and Company Limited. (See Reed, J., and Booth, assignors.)
- Platt, Clarence D., Bridgeport, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Thermal cut-out. 1,726,503; Aug. 27.
- Platt, Cornelius B. (See Brown, W. S., and Platt.)
- Platt, Frank L. (See Reyling, G., and Platt.)
- Platt, Harold R., administrator. (See Platt, Archie W.)
- Platt Hat Machine Corporation. (See Platt, Louis, assignor.)
- Platt, Herbert. (See Dreyfus, C., and Platt.)
- Platt, Herbert. (See Dreyfus, C., Dort, and Platt.)
- Plaut, Herman, assignor to L. Plaut & Company, Incorporated, New York, N. Y. Lighting fixture. Des. 80,088; Dec. 10.
- Platt, Irene L., administratrix. (See Platt, Kenneth R.)
- Platt, John, Harrow, England. Carding surface. 1,709,038; Apr. 16.
- Platt, Joseph, Detroit, Mich. Port shield. 1,736,621; Nov. 19.
- Platt, Kenneth R., deceased, Wissahickon, Philadelphia, Pa., I. L. Platt, administratrix. Dirigible spotlight and traffic signal. 1,707,175; Mar. 26.
- Platt, Louis, New York, N. Y., assignor to Platt Hat Machine Corporation. Hat-finishing machine. 1,736,361; Nov. 19.
- Platten, Emmet, Green Bay, Wis. Refrigerating counter. 1,710,381; Apr. 23.
- Platten, Emmet, Green Bay, Wis. Refrigerating apparatus. 1,721,502; July 23.
- Platten, Emmet, Green Bay, Wis. Refrigerating counter. 1,723,630; Aug. 6.
- Platten, Emmet, Green Bay, Wis. Refrigerating counter. 1,728,696; Sept. 17.
- Platten, Emmet and W. J., Green Bay, Wis. Automotive vehicle heater. 1,728,697; Sept. 17.
- Platten, Will J. (See Platten, Emmet and W. J.)
- Platten, Will J., Green Bay, Wis. Indicator attachment for computing scales. 1,715,074; May 28.
- Platter, Orval R., North Vernon, Ind. Sound amplifier. 1,735,054; Nov. 12.
- Platz, Henry T. (See Morgana, C., and Platz.)
- Plauson, Hermann, Naters, near Brig, Switzerland, assignor to Mineral A. G. Brig, Brig, Switzerland. Preparing bituminous emulsions. 1,706,590; Mar. 26.
- Plauson, Hermann, Hamburg, Germany, assignor to Dispersoid Syndicate, Ltd., London, England. Manufacture of sulfur dyestuffs. 1,736,014; Nov. 19.
- Plauson, Hermann, Hamburg, Germany. Manufacture of sulfur dyestuffs. 1,736,015; Nov. 19.
- Plaut, Antoine P., assignor of one-half to Roberts Brass Manufacturing Company, Detroit, Mich. Governor. 1,712,166; May 7.
- Plaut, Antoine P., Flint, assignor of one-half to Roberts Brass Manufacturing Company, Detroit, Mich. Fuel vaporizer. 1,720,922; July 16.
- Plaut, Antoine P., Flint, assignor of one-half to The Roberts Brass Manufacturing Company, Detroit, Mich. Carburetor. 1,732,531; Oct. 22.
- Plaut, Herman, New York, N. Y. Lamp. 1,719,401; July 2.
- Plaut, L. & Company. (See Plaut, Herman, assignor.)
- Player, Edward, Astley, near Nuneaton, assignor of one-half to Parc Engineering Company Limited, Manufacturers, Coventry, England. Mixing gases and liquids. 1,733,101; Oct. 22.
- Player, Sydney, Westboro, assignor to Norton Company, Worcester, Mass. Crank-shaft-lapping machine. 1,711,061; Apr. 30.
- Playford, Sterling T., Forest Park, assignor to Warford Construction Company, Aurora, Ill. Silo and stave therefor. 1,705,338; Mar. 12.
- Plebanski, Josef, Warsaw, Poland. Sifting antenna. 1,708,399; Apr. 9.
- Plebanski, Josef, Warsaw, Poland. Directive antenna system. 1,708,400; Apr. 9.
- Pleger, John J., Chicago, Ill. Covering machine. 1,711,363; Apr. 30.
- Pleister, Henry W., Westfield, assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J. Nail expansion and method. 1,733,082; Oct. 22.
- Pleister, Henry W., Westfield, and J. Karitzky, assignors, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J. Nail expansion. 1,721,087; July 16.
- Pletcher, Eugene M., New York, N. Y. Screw friction lock for cans. 1,715,146; May 28.
- Pletcher, Philip, assignor to W. S. Ferris, Elkhart, Ind., now trading as The Domore Chair Company. Chair construction. 1,721,573; July 23.
- Plews, Ralph G. (See Westwood, A. E., and Plews.)
- Plibrico Jointless Firebrick Company. (See Anderson, John E., assignor.)
- Plimpton, Bentley A., assignor to Locke Insulator Corporation, Baltimore, Md. Pole bracket. 1,714,814; May 28.
- Plimpton, Bentley A., assignor to Locke Insulator Corporation, Baltimore, Md. Conductor suspension clamp. 1,736,508; Nov. 19.
- Plimpton, John A., Chicago, Ill., assignor to Pennsylvania Crusher Company, New York, N. Y. Deflector. 1,700,687; Jan. 29.
- Plimpton, Samuel J., assignor of one-half to R. B. Sturupp, Worcester, and one-half to E. W. Hanna, Leicester, Mass. Method and apparatus for translating sound. 1,733,751; Oct. 29.
- Ploger, Gustav, Dell, Mont. Aeroplane. 1,712,903; May 14.
- Plotkin, Hyman, assignor of one-half to D. Liebensohn, Bronx, N. Y. Overdrape. 1,708,107; Apr. 9.
- Plotte, Edward L., Scranton, Pa. Article holder for telephones. 1,705,339; Mar. 12.
- Plourde, Ubald, et al. (See Massé, Albert, assignor.)
- Plumb, Ermin F., et al. (See Bergman, William G., assignor.)
- Plumer, Mortimer, Brooklyn, N. Y. Plate or similar article. Des. 79,163; Aug. 6.
- Plumley, Raymond L., Brooklyn, assignor to Frederick Osann Company, New York, N. Y. Portable sewing-machine frame. Des. 80,185; Dec. 24.
- Plumley, Raymond L., Brooklyn, assignor, by mesne assignments, to Gotham Knitbac Machine Corporation, New York, N. Y. Method of and apparatus for repairing fabrics. 1,708,681; Apr. 9.
- Plummer, Bert H., assignor of one-half to E. W. R. Morelock, Rifle, Colo. Submarine. 1,716,704; June 25.
- Plummer, Clarence H., Kewaunee, Wis. Apparatus for handling cans during processing. 1,732,589; Oct. 22.
- Plummer, Clarence H., Kewaunee, Wis. Method and apparatus for treating and handling vegetative products. 1,735,089; Nov. 12.
- Plummer, Henry M., jr., Melrose, Mass. Roller bearing. 1,699,713; Jan. 22.
- Plummer, Mearl L., Johnstown, Pa. Electric motor. 1,716,182; June 4.
- Plummer, Richard T., Duluth, Minn., and E. A. Palo, Forsyth, Mont. Floor-scrubbing machine. 1,731,636; Oct. 15.
- Plunkett, William H. (See Holmes, Alfred E., assignor.)
- Pluskey, Orand A. (See Rawley, W., and Pluskey.)
- Plym, Francis J., assignor to The Kawneer Company, Niles, Mich. Window joint and making the same. 1,714,188; May 21.
- Plym, Francis J., assignor to The Kawneer Company, Niles, Mich. Window construction. 1,736,169; Nov. 19.
- Plymouth Clay Products Co. (See Currie, Clare H., assignor.)
- Plymouth Cordage Company. (See Damon, John H., assignor.)
- Pneuman, Jay M., assignor to Root Spring Scraper Company, Kalamazoo, Mich. Road scraper. 1,721,711; July 23.
- Pneumatic Drop Hammer Company. (See Fitzgerald, William H. J., assignor.)
- Pneumatic Drop Hammer Company. (See Sahlin, Henning G., assignor.)
- Pneumatic Scale Corporation. (See Cleaves, William S., assignor.)
- Pneumatic Scale Corporation. (See Doble, Ralph N., assignor.)
- Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)
- Pneumatic Scale Corporation, Limited. (See English, Analdo M., assignor.)
- Pneumatic Scale Corporation, Limited. (See Joplin, William A., assignor.)
- Pneumatic Scale Corporation, Ltd. (See Reid, Robert A. S., and Leonard, assignors.)
- Pneumatic Scale Corporation, Limited. (See Slocumb, E. E., and McArdle, assignors.)
- Pochin, Frank H. and H. S., Leicester, England. Apparatus for use in attaching soles to the lasted uppers of boots and shoes. 1,719,724; July 2.
- Pochin, Frank H. and H. S., and G. H. Dove, Leicester, England. Apparatus for use in attaching soles or half soles to boots and shoes by the use of an adhesive. 1,723,522; Aug. 6.
- Pochin, Horace S. (See Pochin, Frank H. and H. S.)
- Pochin, Horace S. (See Pochin, Frank H. and H. S., and Dove.)
- Pochin, Horace S., Leicester, England. Shoe support for use by shoe repairers. 1,711,424; Apr. 30.
- Pocovi, Juan S., Barcelona, Spain. Cinematographic apparatus. 1,707,943; Apr. 2.
- Podel, Abraham, Bronx, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Hermetically-sealed package. 1,725,101; Aug. 20.
- Podel, Abraham, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Capping machine. 1,729,454; Sept. 24.
- Podel, Abraham, Bronx, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Hermetically-sealed package and method of sealing. 1,739,692; Dec. 17.
- Podell, Jacob, Mt. Vernon, and W. Conescu, Brooklyn, N. Y. Collapsible box. 1,737,771; Dec. 3.
- Podiebrad, Bernard, Paris, France. Spring seat. 1,708,632; Apr. 9.
- Podszus, Emil, Berlin-Friedrichshagen, and E. Kramer, Berlin, assignors to Hartstoff-Metall Aktiengesellschaft (Hametag), Berlin-Copenick, Germany. Producing metal powder particles of spherical shape. 1,699,205; Jan. 15.



- Podszus, Emil, Berlin-Friedrichshagen, assignor to Hartstoff-Metall, Aktiengesellschaft (Hametag). Berlin-Copenick, Germany. Pulverizing process. 1,703,634; Feb. 26.
- Podszus, Emil, Friedrichshagen-Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Production of light by electricity. 1,716,783; June 4.
- Podszus, Leopold, Berlin-Charlottenburg, Germany. Car-buretor. 1,709,151; Apr. 16.
- Poelman, Cornelius, Chicago, Ill. Nut lock. 1,709,539; Apr. 16.
- Poesse, Walter H., assignor to The Domestic Electric Company, Cleveland, Ohio. Lubricating device. 1,696,971; Jan. 1.
- Poesse, Walter H., assignor to The Domestic Electric Company, Cleveland, Ohio. Material-treating machine. 1,727,410; Sept. 10.
- Poeton, Lawrence, assignor to America Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,722,591; July 30.
- Poeton, Lawrence, assignor to American Optical Company, Southbridge, Mass. Temple. 1,736,362; Nov. 19.
- Pofeldt, Hermann, Berlin, Germany, assignor to Westing-house Electric & Manufacturing Company. Transformer casing. 1,729,085; Sept. 24.
- Poggel, George E., assignor to Advance Manufacturing Company, Louisville, Ky. Apparatus for seasoning and rectifying paper stock. 1,725,764; Aug. 27.
- Poggensee, Edward B., Chicago, Ill. Mop. 1,697,476; Jan. 1.
- Pogue, Charles N., St. Vital, Winnipeg, Manitoba, Canada. Emergency safety attachment for motor vehicles. 1,697,085; Jan. 1.
- Pohl, Ernst, Kiel, Germany. Pump. 1,703,361; Feb. 26.
- Pohl, Robert, Berlin, Germany, assignor to General Electric Company. Protective arrangement. 1,721,409; July 16.
- Pohlar, Otto. (See Shepherd, G., and James, assignors.)
- Pohle, Otto. (See Rosenbaum, B., and Pohle.)
- Pohlig, Eugen, Solingen, Germany. Cigar cutter. 1,727,443; Sept. 10.
- Pohlman, Arthur M., Seattle, Wash. Lining pad. 1,705,267; Mar. 12.
- Pohlmann, Gustav, Gorlitz, assignor, by mesne assignments, to Thilo Kipping, Dresden, Germany. Trailer coupling for saddle tractors with run-up rails. 1,732,658; Oct. 22.
- Pohlmann, Gustav, Copitz, near Pirna, assignor, by mesne assignments, to T. Kipping, Dresden, Germany. Trailer coupling for tractor vehicles. 1,741,654; Dec. 31.
- Pohlmann, Jacob, and J. R. F. Rassers, Leiden, Netherlands. Removing aluminous substances from saccharine juices, including molasses. 1,726,451; Aug. 27.
- Pohlmann, Jacob, and J. R. F. Rassers, Leiden, Netherlands. Preparation of milk, skimmed milk, or butter-milk free of milk sugar. 1,732,026; Oct. 15.
- Pohlmann, Max, Berlin-Siemensstadt, assignor to the firm: Siemens-Reiniger-Verfa Gesellschaft für Medizinische Technik m. b. H., Berlin, Germany. X-ray system. 1,697,692; Jan. 1.
- Pohn, Franz. (See Herrmann, E., and Pohn.)
- Poindexter, Marlin H., Newton, Mass. Filling case. 1,721,529; July 23.
- Pointer, Henry V., assignor to Universal Veneer Products Company, San Francisco, Calif. Producing veneered containers. 1,734,272; Nov. 5.
- Pointon, John E., London, England, assignor to Baker Perkins Company Incorporated, New York, N. Y. Oven. 1,714,815; May 28.
- Pointon, John E., Peterborough, England, assignor to Baker Perkins Company Incorporated, New York, N. Y. Bread-making plant and machinery. 1,716,460; June 11.
- Poirier, Alphonse, Spokane, Wash. Price indicator. 1,727,079; Sept. 3.
- Poirmeur, Louis I., Meru, France. Closing device for all fluids, particularly for liquids used in automobiles. 1,709,039; Apr. 16.
- Poissant de Cloud, Kansas City, Mo. Vehicle wheel. 1,736,130; Nov. 19.
- Pokora, Charles, Milwaukee, Wis. Leaf holder. 1,710,949; Apr. 30.
- Pokorny, Frank, Mamaroneck, N. Y. Control means for heating air supplied to internal-combustion engines. 1,706,817; Mar. 26.
- Pokorny, Frank, Mamaroneck, N. Y. Internal-combustion engine. 1,706,861; Mar. 26.
- Polack, Wilfrid G. (See Moore, J. W., and Polack.)
- Polacoff, Max, Brooklyn, N. Y. Ball-bearing door and window. 1,724,723; Aug. 13.
- Polák, Bohumil, Prague, Czechoslovakia. Opener for tins or the like containers. 1,699,445; Jan. 15.
- Polák, Bohumil, Prague, Czechoslovakia. Device for opening containers, boxes, tins, or the like. 1,703,778; Feb. 26.
- Polák, Bohumil, Praha-Karlín, Czechoslovakia. Lid opener for receptacles. 1,717,252; June 11.
- Polák, Bohumil, Praha-Karlín, Czechoslovakia. Lid opener for receptacles. 1,717,253; June 11.
- Polák, Josef, Prague, Czechoslovakia. Casting machine. 1,717,254; June 11.
- Polák, Bohumil, Praha-Karlín, Czechoslovakia. Device for opening containers, boxes, tins, or the like. 1,734,877; Nov. 5.
- Poland, George M., administrator. (See Taylor, Paul H.)
- Polaschek, Albert, Thiensville, Wis. Container. 1,713,090; May 14.
- Poleck, Hans. (See Schleicher, M., and Poleck.)
- Polek, Joseph, Brooklyn, N. Y. Arc welding generator. 1,705,646; Mar. 19.
- Polen, Clarence R., Oklahoma City, Okla. Visor attachment for headlights. 1,708,776; Apr. 9.
- Polen, Russell V., Dayton, Ohio. Lubricating system for motor vehicles. 1,712,839; May 14.
- Poletis, John D., Detroit, Mich. Butter refrigerator. 1,714,727; May 28.
- Polgar, William, Bronx, N. Y. Mechanical collecting container for cranes. 1,740,116; Dec. 17.
- Polhemus, Charles B. and E. R., San Jose, Calif.; said E. R. Polhemus assignor to said Charles B. Polhemus. Ridger. 1,740,874; Dec. 24.
- Polhemus, Edward R. (See Polhemus, Charles B. and E. R.)
- Polikier, Heinrich, Leipzig, and O. Boeger, Dessau in Anhalt, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Triarylmethane dye. 1,731,637; Oct. 15.
- Polis, Max. (See Eckstein, R., and Polis.)
- Polizzi, Paul, San Francisco, Calif. Internal-combustion engine. 1,705,826; Mar. 19.
- Polk, August, et al. (See Gwisdalla, Peter, assignor.)
- Polk, Dominic S., et al. (See Gwisdalla, Peter, assignor.)
- Polk, Edward H., Sacramento, Calif. Portable platform for lift trucks. 1,736,170; Nov. 19.
- Polkko, Antti, Brooklyn, N. Y., Loose-leaf book. 1,728,078; Sept. 10.
- Polkosnik, Bernard L. (See Carter, C. S., and Polkosnik.)
- Polkosnik, Bernard L. (See Doe, A. N., Briggs, Donaldson, and Polkosnik.)
- Polkosnik, Bernard L., Greenwich, Conn. Foot for filing cabinets. 1,726,121; Aug. 27.
- Poll, Louis, assignor to Hamilton Manufacturing Company, Hamilton, Mich. Planting machine. 1,723,073; Aug. 6.
- Pollack, Max, Chelsea, Mass. Window screen. 1,737,944; Dec. 3.
- Pollak, Abraham, Far Rockaway, assignor to Pencil Mechanism Corporation, New York, N. Y. Mechanical pencil. 1,724,412; Aug. 13.
- Pollak, Fritz. (See Ripper, Kurt, assignor.)
- Pollak, Joseph, Tool and Stamping Company. (See Averill, William H., assignor.)
- Pollak, Robert, & Co. (See Pollak, Robert, assignor.)
- Pollak, Robert, assignor to the firm Robert Pollak & Co., Vienna, Austria. Crystal-cutting machine. 1,712,899; May 7.
- Pollard, Bruno A., Omaha, Nebr. Battery-box holddown. 1,734,645; Nov. 5.
- Pollard, Carl I., Wheelersburg, Ohio. Heel-making machine. 1,731,589; Oct. 15.
- Pollard, Charles C. (See Jamison, T. E., Pollard, and Farmer.)
- Pollard, Edward V. (See Holt, K. M., Warner, and Pollard.)
- Pollard, Gurdon T., Denver, Colo. Automatic work and feed device. 1,709,946; Apr. 23.
- Pollard, Willard L., Evanston, Ill. Automobile headlight. 1,735,090; Nov. 12.
- Pollitz, George S. (See Spitzstein, Ludwig, assignor.)
- Pollitzer, Franz, Grosshesselohe, near Munich, Germany. Transferring heat from gases to other gases. 1,724,513; Aug. 13.
- Pollock, Alan A., Leamington Spa, England, assignor to General Electric Company. Ship propulsion. 1,717,255; June 11.
- Pollock, Alan A., Leamington Spa, England, assignor to General Electric Company. Ship propulsion. 1,717,256; June 11.
- Pollock, Alan A., Leamington Spa, England, assignor to General Electric Company. Load regulation of mechanically-coupled motors. 1,717,852; June 18.
- Pollock, Ernest V., Ottumwa, Iowa. Display device. 1,722,232; July 23.
- Pollock, Gordon B., Los Angeles, Calif. Making composite pictures. 1,737,021; Nov. 26.
- Pollock, James. (See Groble, J. C., Pollock, and Groble.)
- Pollock, John A., and J. W. Cawthon, Pekin, Ill. Mechanism for concrete construction. 1,723,631; Aug. 6.
- Pollock, John L., Dakota, Ill., assignor to Hardware Manufacturing Company, Detroit, Mich. Latch bolt. 1,720,492; July 9.
- Pollock, Leopold, Brooklyn, N. Y. Check protector. 1,697,882; Jan. 8.
- Pollock Pen Company. (See Pollock, Robert T., assignor.)
- Pollock, Ralph C. (See Raine, W. A., and Pollock.)
- Pollock, Robert T. (See Behrman, M. B., and Pollock.)
- Pollock, Robert T., Boston, Mass., assignor to Universal Oil Products Company, Chicago, Ill. Fractionally distilling hydrocarbons. 1,710,068; Apr. 23.
- Pollock, Robert T., Boston, Mass., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating oils. 1,721,973; July 23.
- Pollock, Robert T., Cambridge, assignor to Pollock Pen Company, Boston, Mass. Cartridge pen. 1,724,106; Aug. 13.
- Pollock, Robert T., assignor to Pollock Pen Company, Boston, Mass. Fountain pen. 1,724,107; Aug. 13.
- Pollock, Samuel, Jr., Mount Auburn, Iowa. Post or stake puller. 1,709,683; Apr. 16.
- Pollock, William J. (See Humphreys, W. H., and Pollock.)



- Poloris Company. (See Plass, Robert H., assignor.)  
 Polsen, Samuel D. (See D'Elia, J. A., and Polsen.)  
 Polson, Alexander. (See Eckersley, James E., assignor.)  
 Polymet Manufacturing Corporation. (See De Giovanni, John, assignor.)  
 Polymet Manufacturing Corporation. (See Greene, Nathaniel C., assignor.)  
 Polysius, Firm G. (See Bues, August, assignor.)  
 Polysius, Firm G. (See Luther, Fritz, assignor.)  
 Polysius, G. (See Bruhn, Bruno, assignor.)  
 Polysius, G. (See Horn, Hans, assignor.)  
 Polysius, G. (See Ihlefeldt, Johannes, assignor.)  
 Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Work-locating device for stapling machines. 1,704,444; Mar. 5.  
 Polzon, Frederica, Prentice, Wis. Jar-cleaning tool. 1,700,209; Jan. 29.  
 Pomerantz, Samuel L., Brooklyn, N. Y. Powder-puff-display box. Des. 78,988; July 9.  
 Pomerantz, Samuel L., Brooklyn, N. Y. Powder-puff package. Des. 79,435; Sept. 17.  
 Pomeranz, Jacob J. (See Tanasso, V., and Pomeranz.)  
 Pomeroy, James W. (See Todd, W. C., and Pomeroy.)  
 Pomeroy, Percy W., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,717,936; June 18.  
 Pomeroy, Roy J., assignor of one-half to Paramount Famous Lasky Corporation, Los Angeles, Calif. Making composite pictures. 1,715,510; June 4.  
 Pomeroy, Roy J., Hollywood, assignor of one-half to Paramount Famous Lasky Corporation, Los Angeles, Calif. Sound recording and reproduction. 1,715,863; June 4.  
 Pomeroy, S. H., Company. (See Byrnes, James H., assignor.)  
 Pomeroy, Timothy C., Moline, assignor of one-third to J. E. Madden, Chicago, Ill. Hydraulic apparatus. 1,699,917; Jan. 22.  
 Pomona Valley Machine Works. (See Pedley, Frank B., assignor.)  
 Pompano, Salvatore D., East Haven, Conn. Tool for inserting and extracting pins and washers. 1,699,856; Jan. 22.  
 Pomykala, Edmund S., Savannah, Ga. Piling. 1,704,577; Mar. 5.  
 Pond, Charles M., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-locking means for milling tools. 1,700,333; Jan. 29.  
 Pond, Clarence H., Winchester, assignor to Ivers & Pond Piano Company, Boston, Mass. Piano bench. 1,709,406; Apr. 16.  
 Pond, Thomas C. (See Williams, S. A., and Pond.)  
 Pongratz, Alfred, Graz, Styria, Austria, assignor to Felice Bensa, Genoa, Italy. Manufacturing dyestuffs. 1,725,596; Aug. 20.  
 Pongratz, Alfred, and A. Zinke, Graz, Austria, assignors to F. Bensa, Genoa, Italy. Quantitatively halogenating perylene and its derivatives. 1,697,137; Jan. 1.  
 Ponselle, Robert A., New York, N. Y. Floor sander. 1,736,546; Nov. 19.  
 Pontek, Jacob, Detroit, Mich. Combination stand and lamp. Des. 79,759; Oct. 29.  
 Ponti, Ernesto G., Turin, Italy. Rubber nozzle for clinical and like purposes. 1,701,421; Feb. 5.  
 Pontiere, Stanley M., Ocean City, N. J. Wall-mold construction. 1,725,827; Aug. 27.  
 Pontikis, John B., Washington, D. C. Life-saving boat. 1,712,167; May 7.  
 Ponting, Herbert G., London, and G. W. Ford, Kensington, London, England, said Ford assignor to said Ponting. Film holder. 1,707,767; Apr. 2.  
 Ponting, Herbert G., Oxford Circus, and G. W. Ford, Kensington, London, England, assignors to War. D. Foster, Washington Township, N. J. Film-handling apparatus. 1,736,730; Nov. 19.  
 Pontis, William C., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Counterbalancing shafts. 1,733,321; Oct. 29.  
 Ponto, Otto, Long Beach, Calif. Coupling lock. 1,701,985; Feb. 12.  
 Pontoppidan, Carl, Holte, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Hydraulic cement. 1,722,480; July 30.  
 Pool, J. & E., Limited. (See Watt, James, assignor.)  
 Pool, William J. (See Given, R. D., and Pool.)  
 Poole, Carrie C., West Plains, Mo. Stocking doll. 1,698,653; Jan. 8.  
 Poole, Clarence F., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for handling loose material. 1,702,570; Feb. 19.  
 Poole Engineering and Machine Company. (See Davison, Clarence M., assignor.)  
 Poole Engineering and Machine Company. (See Morgan, Merton W., assignor.)  
 Poole, Jesse V., Abington, assignor to Kierstead-Anderson Co., Inc., Brockton, Mass. Shoemaking. 1,708,552; Apr. 9.  
 Poole, Jesse V., Abington, assignor to Puritan Manufacturing Company, Boston, Mass. Ribbed innersole and making. 1,728,362; Sept. 17.  
 Poole, John H., Brockton, assignor of three-fourths to G. C. Green, Hingham, and one-fourth to F. L. Price, Brockton, Mass. Safety-razor-blade stropper. 1,698,559; Jan. 8.  
 Poole, Joseph A., Durban, South Africa. Flexible-cord connection for electrical appliances. 1,730,945; Oct. 8.  
 Poole, Joseph E., Pretoria, South Africa. Clothes holder. 1,708,777; Apr. 9.  
 Poole, Lora E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Armature-core-insulating machine. 1,720,923; July 16.  
 Poole, Lora E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Armature-core-insulating machine. 1,720,966; July 16.  
 Poole, Lora E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-core-insulating machine. 1,721,037; July 16.  
 Poole, Page G., assignor to International Silver Company, Meriden, Conn. Stoning trays and the like. 1,705,204; Mar. 12.  
 Poole, William A., Lexington, Ky. Sanitary shield. 1,697,733; Jan. 1.  
 Pooley Company, The. (See Combs, Edward L., assignor.)  
 Pooley Company, The. (See Pooley, Edward F., assignor.)  
 Pooley, Edward F., assignor to The Pooley Company, Philadelphia, Pa. Radiocabinet. Des. 78,372; Apr. 23.  
 Pooley, Edward F., assignor to The Pooley Company, Philadelphia, Pa. Radiocabinet. Des. 78,654; May 28.  
 Pooley, William S. (See Grover, W. H., Merritt, and Pooley.)  
 Poor, Frederick E., Darien, assignor to Pitney Bowes Postage Meter Company, Stamford, Conn. Moistener for envelope sealers, etc. 1,714,620; May 28.  
 Poore, Benjamin F. P., Greenville, Miss. Apparatus for molding building blocks. 1,699,017; Jan. 15.  
 Pope, Arthur S., Santa Barbara, Calif. Slotted clip for holding type. 1,716,056; June 4.  
 Pope, Arthur W., Jr., assignor to Waukesha Motor Company, Waukesha, Wis. Cooling system. 1,709,372; Apr. 16.  
 Pope, Arthur W., Jr., assignor to Waukesha Motor Company, Waukesha, Wis. Timing-gear support. 1,719,307; July 2.  
 Pope, Charles E., deceased; M. A. Pope, executrix, Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Paper-making machine. 1,714,238; May 21.  
 Pope, Charles S., Sacramento, Calif. Machine for arranging paving materials. 1,720,377; July 9.  
 Pope, Edward J., St. Joseph, Mich. Grinding apparatus. 1,705,996; Mar. 19.  
 Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Supplying apparatus. 1,712,581; May 14.  
 Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting mechanism. 1,717,402; June 18.  
 Pope, Elmer R., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nailing machine. 1,733,167; Oct. 29.  
 Pope, Glen L., and A. Cohen, Gretna, Nebr. Hook fastener and removable mounting therefor. 1,700,594; Jan. 29.  
 Pope, J. M., et al. (See Ferguson, Alonzo W., assignor.)  
 Pope, James S. (See Gurr, C. S., and Pope.)  
 Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-attaching machine. 1,733,166; Oct. 29.  
 Pope, Lyman B., Haverhill, Mass. Heel-shank-shaping machine. 1,704,445; Mar. 5.  
 Pope Machine Company. (See La Montague, Patrick P., assignor.)  
 Pope, Mary A., executrix. (See Pope, Charles E.)  
 Pope, Orson M., Seattle, Wash. Transmission. 1,707,092; Mar. 26.  
 Pope, Turner T. (See Millingar, H. E., and Pope.)  
 Pope, William E., West Palm Beach, Fla. Fishing rod. 1,731,173; Oct. 8.  
 Popert, George L. (See Lindstrom, Gustaf F., assignor.)  
 Popoff, Methodi, assignor to Bayerische Stickstoff Werke Aktiengesellschaft, Berlin, Germany. Stimulating the germination of seeds and other vegetable matter and in stimulated vegetable matter. 1,703,362; Feb. 26.  
 Popov, Vladimir, Plzen, Czechoslovakia. Cigarette-packing machine. 1,717,403; June 18.  
 Popp, Hans C. R. (See Despard, V. R., and Popp.)  
 Popp, Harry E., assignor to S. Morgan Smith Company, York, Pa. Hydraulic turbine. 1,723,254; Aug. 6.  
 Poppensieker, Fritz, Cologne, assignor to A. H. Schütte, Cologne-Deutz, Germany. Multispindle turret lathe. 1,716,532; June 11.  
 Popperman, John. (See Hager, L., and Popperman.)  
 Poppock, Mack J., Mason City, Iowa. Square. 1,725,476; Aug. 20.  
 Popular Mechanics Co. (See Baker, George F., Jr., assignor.)  
 Poranski, Walter, Chicago, Ill., assignor to J. Baer, New York, N. Y. Vanity case. 1,704,372; Mar. 5.  
 Poranski, Walter, Chicago, Ill., assignor to J. Baer, New York, N. Y. Cap or closure for containers and fabricating the same. 1,726,122; Aug. 27.  
 Porcelain Enamel & Manufacturing Co., The. (See Türk, Heinrich, assignor.)  
 Porcelain Tile Company. (See Grisby, Owen E., assignor.)  
 Porcelain Tile Company. (See Haines, George D., assignor.)  
 Poritz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 79,436; Sept. 17.



- Portitz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 79,437; Sept. 17.
- Portitz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 79,438; Sept. 17.
- Portitz, Frederick M., assignor to Artistic Brass & Bronze Works, Inc., New York, N. Y. Lamp base or similar article. Des. 79,439; Sept. 17.
- Porr, Henrietta C., New York, N. Y., assignor to The Good-year's India Rubber Glove Mfg. Company, Naugatuck, Conn. Footwear. 1,715,147; May 28.
- Porsche, Ferdinand, Stuttgart-Unterturkheim, assignor to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Power-driven vehicle. 1,724,310; Aug. 13.
- Porsche, Ferdinand, Stuttgart-Unterturkheim, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Apparatus for operating liquid turbines by means of combustion machines. 1,725,881; Aug. 27.
- Porsche, Ferdinand, Stuttgart-Unterturkheim, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Blower set for combustion machines. 1,739,859; Dec. 17.
- Port, Boris, Newark, N. J. Spool stand. 1,725,368; Aug. 20.
- Portable Adding Machine Company. (See Barrett, Glenn J., assignor.)
- Portable Light Company. (See McRea, John S., assignor.)
- Portable Self-Serving Store Company. (See Larrabee, B. G. Root and Cassaday, assignors.)
- Portage Machine and Engine Company, The. (See Zimarik, John, assignor.)
- Portail, Fernand C. F., assignor to Société Anonyme Le Carbone, Gennevilliers, France. Galvanic battery. 1,716,461; June 11.
- Porte, René, assignor to Societe Hardoll Etablissements Hariveau et Dolimier et René Porte et Cie. Reunis, Levallois-Perret, France. Liquid-measuring apparatus. 1,732,063; Oct. 15.
- Porte, René, assignor to Societe Hardoll Etablissements Hariveau et Dolimier et René Porte et Cie., Reunis, Levallois-Perret, France. Liquid measuring and distributing system. 1,740,875; Dec. 24.
- Porteous, Walter, Philadelphia, Pa. Supporting stand. Des. 79,385; Sept. 10.
- Porter, Alphonzo B., assignor to G. E. Prentice Manufacturing Company, New Britain, Conn. Key case. 1,706,183; Mar. 19.
- Porter, Edward A., Brattleboro, Vt. Snell hook and fly case. 1,715,567; June 4.
- Porter, Edward A., Brattleboro, Vt. Toggle bolt. 1,733,693; Oct. 29.
- Porter, Edward S., Washington, D. C. Automatic regulation of steam heating systems. 1,702,979; Feb. 19.
- Porter, Edwin S., New York, N. Y. Shutter for motion-picture machines. 1,700,513; Jan. 29.
- Porter, Enos, Shelbyville, Ind., assignor, by mesne assignments, to The Simplex Piston Ring Company of America, Inc., Cleveland, Ohio. Rear-view mirror for automobiles. Re17,274; Apr. 16.
- Porter, Florence M., Seattle, Wash. Metal clip. 1,730,241; Oct. 1.
- Porter, Forest A., and F. Schmidt, Chicago, Ill. Violin guitar. 1,726,311; Aug. 27.
- Porter, George A., Leominster, Mass. Combined barrette, comb, and hair waver. 1,741,073; Dec. 24.
- Porter, Harper R., Niels, assignor to The Columbus Machine Company, Columbus, Ohio. Check or globe valve. 1,733,276; Oct. 29.
- Porter, Herbert F., New York, N. Y. Grate. 1,703,748; Feb. 26.
- Porter, H. K., Inc. (See Eyre, John J., assignor.)
- Porter, H. K., Inc. (See Mottinger, B. T., and McDowell, assignors.)
- Porter, Hugh B., Enid, assignor of one-third to H. Needham, Ponca City, Okla. Fastener for milk-can tops. 1,728,945; Sept. 24.
- Porter, James. (See Davenport, R. H., and Porter.)
- Porter, James C. (See Fay, J. G., and Porter.)
- Porter, John, Rothsay, Butheshire, Scotland. Process and apparatus for the electro-deposition of rubber. 1,702,703; Feb. 19.
- Porter, John L., Columbus, Ohio. Manhole cover. 1,721,831; July 23.
- Porter Johnson P., Portland, Oreg. Freight box car. 1,715,307; May 28.
- Porter, Kirk E., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Pan lifter. 1,721,354; July 16.
- Porter, Kirk E., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Cooking utensil. 1,728,007; Sept. 10.
- Porter, Russell W. (See Hartness, J., and Porter.)
- Porter, Russell W., and R. O. Beardsley, assignors to Jones & Lamson Machine Company, Springfield, Vt. Method and apparatus for measuring and comparing gears and the like. 1,732,730; Oct. 22.
- Porter, Scott, Akron, Ohio. Sanitary syringe. 1,738,152; Dec. 3.
- Porter, Thomas H., Columbus, Ohio, assignor, by mesne assignments to H. B. Staver, Chicago, Ill. Dog-racing apparatus. 1,703,209; Feb. 26.
- Porter, Thomas J., assignor of one-third to P. Lyons and one-third to A. C. Masteller, Oroville, Calif. Water-lifting apparatus. 1,727,216; Sept. 3.
- Porter, Vernon C., New York, N. Y., assignor to G. N. Randle, Oakland, Calif. Attachment for automobiles and the like. 1,721,832; July 23.
- Porter, William J. H. (See Williams, G. B., and Porter.)
- Porter, Wilson E., assignor to The New Haven Clock Co., New Haven, Conn. Center friction for clocks and watches. 1,741,952; Dec. 31.
- Porter, Zenos, Provo, Utah. Reversible walking plow. 1,730,476; Oct. 8.
- Porth, Henry W., Brooklyn, assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Dry cell. 1,699,446; Jan. 15.
- Portland Gas & Coke Company. (See Connor, Raymond M., assignor.)
- Portland Stove Foundry Co. (See Lawrence, Franklin, assignor.)
- Portsmouth Stove & Range Company, The. (See Knauss, John B., assignor.)
- Portsmouth Stove & Range Company, The. (See Knauss, John B., Jr., assignor.)
- Porzel, Joseph, Buffalo, N. Y. Device for controlling electrolytic operations. 1,700,178; Jan. 29.
- Porzellanfabrik Ph. Rosenthal & Co. A-G. (See Becker, Otto, assignor.)
- Pos, Marius J., East Orange, E. S. Stadelman, Newark, N. J., and J. J. Fairbairn, Roosevelt, assignors to Robins Conveying Belt Co., New York, N. Y. Belt idler. 1,709,152; Apr. 16.
- Posada, Octavio A. Hernandez. (See Casanova, A. de A., and Posada.)
- Posentrup, Heinrich, Munster, Germany. Gripper brake for railways. 1,714,621; May 28.
- Posey, James, Baltimore, Md., assignor to The Two-Season Process, Inc., Norfolk, Va. Combined heating and cooling apparatus. 1,719,080; July 2.
- Posey, Samuel E., Trenton, S. C. Asparagus cutter. 1,731,174; Oct. 8.
- Posnick, George, Brooklyn, N. Y. Garment-checking system. 1,730,382; Oct. 8.
- Pospeshil, Emilie James, assignor to Burroughs Adding Machine Company, Detroit, Mich. Dashpot for calculating machines. 1,719,308; July 2.
- Posselt, Albert J., Salida, Colo. Gold dredge. 1,739,326; Dec. 10.
- Possin, Paul, Philadelphia, Pa. Apparatus providing heat, light, and radio service for airships. 1,709,684; Apr. 16.
- Possions, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Sheet-metal stove leg. 1,714,435; May 21.
- Possions, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Valve for stove burner lighters. 1,716,183; June 4.
- Possions, Minard A., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Combined broiler and roasting pan. 1,732,910; Oct. 22.
- Post, Albert H., Waterbury, Conn., and S. A. Swanson, New York, assignors to H. Hyman, Brooklyn, N. Y. Electrical device. 1,722,393; July 30.
- Post, Claude L., Chicago, Ill. Sheet separator. 1,703,690; Feb. 26.
- Post, Claude L., Chicago, Ill. Stop signal. 1,703,691; Feb. 26.
- Post, Claude L., Chicago, Ill. Feeding mechanism. 1,730,477; Oct. 8.
- Post, Romsen F., New York, assignor to J. B. Levy, Jamaica, N. Y. Combined electric reading lamp and pencil holder. Des. 79,440; Sept. 17.
- Post, William M., Hood River, Oreg. Vulcanizer. 1,740,034; Dec. 17.
- Postal Telegraph-Cable Company. (See Gould, Rufus, assignor.)
- Postal Telegraph-Cable Company. (See Hallden, Frederick G., assignor.)
- Postel, Carl, assignor to American Shale Reduction Company, New York, N. Y. Distilling solid carbonaceous material. 1,717,808; June 18.
- Postel, Jacob H., San Mateo, Calif. Mop construction. 1,735,358; Nov. 12.
- Postindex Company. (See Attwood, Charles E., assignor.)
- Postings, William G., Greenwich, Conn. Dog exercising and training device. 1,699,308; Jan. 15.
- Postman, Louis, New York, N. Y. Glove. Des. 77,433; Jan. 8.
- Postweiler, Charles, St.-Ouen, France. Apparatus for the unloading of railroad cars and other vehicles. 1,716,240; June 4.
- Potdevin, Adolph, Garden City, assignor to Potdevin Machine Company, Brooklyn, N. Y. Garment bag. 1,706,041; Mar. 19.
- Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
- Potect, M. G., et al. (See Gregory, Bige, assignor.)
- Pothour, William D. (See Higby, B. F., and Pothour.)
- Potomac Glass Company, The. (See Beam, Charles C., assignor.)
- Potrafke, Herman, Ashford, and R. N. Allen, Tacoma, Wash. Lowering car for incline railways. 1,708,190; Apr. 9.
- Potstada, George, Oakland, Calif. Portable lamp stand. 1,710,069; Apr. 23.
- Pott, Otto, Quincy, Ill. Adjustable scaffold. 1,727,671; Sept. 10.
- Potter, Albert A., Okmulgee, Okla. Bomb and setting means therefor. 1,741,036; Dec. 24.



- Potter, Albert T., assignor to Ainsworth Manufacturing Company, Detroit, Mich. Windshield operator. 1,699,750; Jan. 22.
- Potter, Albert T., assignor, by mesne assignments, to Ainsworth Manufacturing Corporation, Detroit, Mich. Windshield operator. 1,730,899; Oct. 8.
- Potter, Charles E., St. Louis, Mo. Gravity-tank float device. 1,725,208; Aug. 20.
- Potter, Frank M., Rome, assignor to General Cable Corporation, New York, N. Y. Method of and apparatus for folding sheet material. 1,703,456; Feb. 26.
- Potter, Frederick D., Linden, N. J., and N. Hiss, New York, N. Y., assignors to Combustion Control Company, Inc. Indicating or recording apparatus. 1,715,511; June 4.
- Potter, John A., Roselle, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Heat-exchange apparatus. 1,722,109; July 23.
- Potter, John O. (See Kean, A., and Potter.)
- Potter, Paul M. (See Rayfield, Frederick H., assignor.)
- Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Carrier suppression modulation. 1,699,570; Jan. 22.
- Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Transmission level regulation. 1,721,574; July 23.
- Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for controlling the output of alternating-current generators. 1,731,264; Oct. 15.
- Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Radioreceiving circuits. 1,739,520; Dec. 17.
- Potter, Richard W., Lowell, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Combined shuttle feeler and thread cutter for looms. 1,712,445; May 7.
- Potter, Robert S., Greenwich, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door closer. 1,719,781; July 2.
- Potter, Thomas W., and L. C. McNamara, Indianapolis, and C. N. Lammers and J. R. McLavy, Danville, assignors to Journal-Box Servicing Corporation, Indianapolis, Ind. Renovating journal-box oil. 1,709,230; Apr. 16.
- Potter, Walter L., assignor to Paterson Reed & Harness Co., Paterson, N. J. Shuttle. 1,703,542; Feb. 26.
- Potter, William, New York, N. Y. Plane. 1,699,988; Jan. 22.
- Potter, William, New York, N. Y. Plane. 1,723,951; Aug. 6.
- Potter, William W., Pawtucket, R. I. Machine tool. 1,733,426; Oct. 29.
- Potthoff, Kurt T., Brooklyn, N. Y., assignor to U. S. Galvanizing & Plating Equipment Corporation. Apparatus for treating pipes, bars, etc. 1,720,525; July 9.
- Potts, Clyde. (See Wigley, Chester G., assignor.)
- Potts, Fisher R., Bolckow, Mo. Windmill. 1,707,924; Apr. 2.
- Potts, Louis M., Tenafla, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. 1,708,954; Apr. 16.
- Potts, Oscego W., Pedricktown, N. J. Pot-lid holder. 1,722,394; July 30.
- Potts, William N. (See Colby, C. M., and Potts.)
- Poturnaj, John, assignor of one-half to F. J. Hanley, Silver Springs, N. Y. Combination padlock. 1,716,184; June 4.
- Poturnaj, John, assignor of one-half to F. J. Hanley, Silver Springs, N. Y. Combination padlock. 1,716,185; June 4.
- Pouch, John. (See Pfaff, C., and Pouch.)
- Poulsen, Arnold, and A. C. G. Petersen, Copenhagen, Denmark. System for reproducing sounds from distorted sound records. 1,713,918; May 21.
- Poulson, Robert, Hutchinson, Minn. Milk-bottle-cap lifter. 1,725,477; Aug. 20.
- Poulter, Thomas H., Buffalo, N. Y. Safety-razor-blade sharpener. 1,730,163; Oct. 1.
- Pound, E. L. (See Mercer, Ivan H., assignor.)
- Pounds, Hoyle. (See Corbett, A. H., and Pounds.)
- Pouvaillsmith Corporation. (See Smith, Grant E., assignor.)
- Povel, Hyacinthe A., Paris, France. Lip-stick holder. 1,712,840; May 14.
- Poverud, Gudolf M. (See Sonsthagen, A., and Poverud.)
- Povlsen, Paul K., and E. St. John, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Supports for wires. 1,720,746; July 16.
- Powdrell & Alexander, Inc. (See Perkins, George H., assignor.)
- Powell, Robert J. H., jr., New York, N. Y. Range and deflection setting mechanism. 1,707,368; Apr. 2.
- Powell, Albert, and R. White, Pensacola, Fla. Steam-gauge holder. 1,736,669; Nov. 19.
- Powell, Dalton U., Woodsfield, Ohio, assignor to The Oil Recovery Corporation, Wheeling, W. Va. Electric heater. 1,720,092; July 9.
- Powell, Dalton U., Woodsfield, Ohio, assignor to The Oil Recovery Corporation, Wheeling, W. Va. Oil-field-rejuvenating means. 1,726,041; Aug. 27.
- Powell, Delbert J., administrator. (See Powell, James F.)
- Powell, Edward R., assignor to J. MacCallum, Jr., St. Louis, Mo. Quantity-indicating device for liquids. 1,707,768; Apr. 2.
- Powell, Edward V., Arlington, Mass. Saxophone. 1,735,411; Nov. 12.
- Powell, Edwin C., Marysville, Calif. Landing net. 1,726,715; Sept. 3.
- Powell, Edwin L., Washington, D. C. High-frequency electrical circuits. 1,737,125; Nov. 26.
- Powell, Edwin L., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Radio signaling apparatus. 1,701,336; Feb. 5.
- Powell, Ellis G., assignor to Sheet Steel Products Company, Michigan City, Ind. Door latch. 1,708,150; Apr. 9.
- Powell, Everton B., Newark, N. J., assignor of one-half to F. N. Windridge, Cherrydale, Va. Article-dipping apparatus. 1,697,436; Jan. 1.
- Powell, Frank D., assignor to Acme Card System Company, Chicago, Ill. Visible index. 1,706,984; Mar. 26.
- Powell, Frederick. (See Best, F. E., and Powell.)
- Powell, Gomert, Michigan City, Ind., assignor to Pullman Car and Manufacturing Corporation. Metal-breaking device. 1,719,278; July 2.
- Powell, Gomert, Michigan City, Ind., assignor to Pullman Car & Manufacturing Corporation, Chicago, Ill. Air clamp. 1,736,171; Nov. 19.
- Powell, Herbert S., Utica, N. Y. Machine for making chaplets. 1,727,730; Sept. 10.
- Powell, Herbert S., Utica, N. Y. Engine support. 1,731,540; Oct. 15.
- Powell, Herbert S., Utica, N. Y. Welding machine. 1,731,541; Oct. 15.
- Powell, Herbert S., Utica, N. Y. Muffler. 1,735,789; Nov. 12.
- Powell, Herbert S., Utica, N. Y. Muffler. 1,739,039; Dec. 10.
- Powell, Herbert S., Utica, N. Y. Machine for bending flat metal strips into spirals. 1,739,040; Dec. 10.
- Powell, James F., deceased, Flint, Mich.; D. J. Powell, administrator. Fastener. 1,705,781; Mar. 19.
- Powell, Jesse R., assignor to Armour & Company, Chicago, Ill. Separating solids from liquids. 1,729,547; Sept. 24.
- Powell, John H. (See Diller, Charles R., assignor.)
- Powell, Josiah W., Florence, Ala. Lock for fishing-line reels. 1,711,248; Apr. 30.
- Powell, Milton W., Baltimore, Md. Cap or stopper for containers and making it. 1,728,699; Sept. 17.
- Powell, Milton W., Baltimore, Md. Car wheel. 1,729,295; Sept. 24.
- Powell, Raymond E., Maywood, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Heated tool. 1,706,740; Mar. 26.
- Powell, Samuel T., New Kensington, Pa., assignor to General Electric Company. Rotary pickling machine. 1,741,249; Dec. 31.
- Powell, Victor T., Sacramento, Calif. Plumb bob. 1,708,778; Apr. 9.
- Powell, Wm. Co., The. (See McFarlan, Randall, assignor.)
- Powell, William H., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamo-electric machine and winding therefor. 1,706,818; Mar. 26.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radio signaling system. 1,701,591; Feb. 12.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Multioffice telephone system. 1,710,803; Apr. 30.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Time-measuring device. 1,726,163; Aug. 27.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Method and apparatus for remotely controlling radio receiving systems. 1,738,262; Dec. 3.
- Powelski, Albert, Kansas City, Kans. Journal bearing. 1,714,728; May 28.
- Powelski, Albert, Kansas City, Kans. Journal bearing. 1,731,907; Oct. 15.
- Powelson, Wilfrid V. N., and W. Travell, New York, N. Y. Alighting means for lighter-than-air ships. 1,699,672; Jan. 22.
- Power, Clark H. and E. M., Santa Monica, Calif. Safety razor. 1,700,951; Feb. 5.
- Power, Edward D., Taft, assignor of two-eighths to L. E. Stephens, Fellows, and three-eighths to E. D. Jones, Taft, Calif. Casing spear. 1,728,136; Sept. 10.
- Power, Elsie M. (See Power, Clark H. and E. M.)
- Power, Henry R., Niagara Falls, N. Y., assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Waterproof abrasive. Re17,494; Nov. 19.
- Power, Lawrence E., assignor to The Reliance Company, Milwaukee, Wis. Resistor unit and forming the same. 1,741,582; Dec. 31.
- Power, Richard F., London, assignor to Morland & Impey Limited, Birmingham, England. Permanent binder. 1,703,245; Feb. 26.
- Power, Richard F., Hampstead, London, assignor to Morland & Impey Limited, Birmingham, England. Loose-leaf-binding mechanism. 1,707,093; Mar. 26.
- Power Specialty Company. (See Dowd, Wyllys E., jr., assignor.)
- Power, Turner W., Brownwood, Tex. Whirligig device for automobiles. 1,728,079; Sept. 10.
- Powerplus Limited. (See Stern, William J., assignor.)
- Powers, Augustin J. (See Makart, August, assignor.)



- Powers Donald H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanizing rubber and accelerator therefor. 1,732,532; Oct. 22.
- Powers, Edward W., Boston, Mass. Musical instrument. 1,703,167; Feb. 26.
- Powers, Edward W., Boston, Mass. String plate for pianos. 1,703,168; Feb. 26.
- Powers, Edward W., Boston, Mass. Piano. 1,703,169; Feb. 26.
- Powers, Frank B., Springfield, Mass. Line-spacing mechanism for typewriters. 1,724,615; Aug. 13.
- Powers, Frank T., Douglaston, N. Y. Etching machine. 1,736,862; Nov. 26.
- Powers, Frank T., New York, N. Y., assignor to Powers Photo-Engraving Company. Making photomechanical printing plates. 1,709,320; Apr. 16.
- Powers, Fred, Norman, Okla., and J. W. Tolland, St. Louis, Mo.; said Tolland assignor to C. F. Camp Company, Tulsa, Okla. Diamond core drill. 1,735,091; Nov. 12.
- Powers, Fred W. and M. O. Snediker, assignors to Powers Regulator Company, Chicago, Ill. Two-temperature thermostat. 1,712,841; May 14.
- Powers, George G., Chicago, Ill. Method of and apparatus for modifying the shape of metallic tubes. 1,712,118; May 7.
- Powers, George T., San Francisco, Calif. Vehicle license-plate assembly. 1,729,184; Sept. 24.
- Powers, Joseph B., New Castle, Ohio. Valve. 1,741,735; Dec. 31.
- Powers, Joseph H., Cody, Wyo. Automobile signal housing. Des. 80,049; Dec. 3.
- Powers, Joshua B., New York, N. Y. Mosquito guard. 1,705,782; Mar. 19.
- Powers, Leon F. (See Meadors, Thomas O., assignor.)
- Powers and Mayer, incorporated. (See Haage, Frederick G., assignor.)
- Powers, Milton A., assignor to Socony Burner Corporation, New York, N. Y. Oil burner. Des. 77,858; Feb. 26.
- Powers, Milton A., New York, N. Y., assignor, by mesne assignments, to The Timken-Detroit Company, Detroit, Mich. Burner for producing heat from liquid fuel. 1,739,089; Dec. 10.
- Powers Photo-Engraving Company. (See Powers, Frank T., assignor.)
- Powers Photo-Engraving Company. (See Spalding, A. H., and Chankalian, assignors.)
- Powers Regulator Company. (See Powers, F. W., and Snediker, assignors.)
- Powers, Samuel P., Wooster, Ohio. Upshot pipe ripper. 1,733,860; Oct. 29.
- Powers, Survilan, Waterbury, Conn. Resistant vehicle or automobile brake. 1,706,899; Mar. 26.
- Powers, Thomas E., and W. J. Frain, Savannah, Ga. Safety cargo hook. 1,702,946; Feb. 19.
- Powers, Timothy B., Brooklyn, N. Y. Chair. 1,699,309; Jan. 15.
- Powers, Timothy B., Brooklyn, N. Y. Chair. 1,728,573; Sept. 17.
- Powers, W. F., Company, The. (See Clinch, D., and Blache, assignors.)
- Powers, W. F., Company, The. (See McConnell, Lewis E., Jr., assignor.)
- Powhatan Mining Corporation. (See Mett, Frederick A., assignor.)
- Powhatan Mining Corporation et al. (See Rose, Thomas, assignor.)
- Powling, William T., London, England, assignor to J. W. Pittock, Philadelphia, Pa. Recovery of fats, oils, or oleaginous substances from materials yielding them. 1,722,015; July 23.
- Pownall, Henry D., Canton, Ohio. Fracture bed. 1,709,153; Apr. 16.
- Pownall, Henry D., and F. M. Bennett, Canton, Ohio; said Pownall assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Liquid-level gauge. 1,709,875; Aug. 23.
- Powrie, John H., New York, N. Y. Color photography. 1,717,404; June 18.
- Powrie, John H., New York, N. Y. Apparatus for printing positive pictures in natural colors. 1,717,405; June 18.
- Poxon, William, Clowne, England. Coal conveyer and the like. 1,719,448; July 2.
- Poynton, Thomas H., Leamington Spa, England. Body for motor vehicles. 1,699,918; Jan. 22.
- Poyser, James E., San Francisco, Calif. Variable-throw crank for bicycles. 1,714,134; May 21.
- Pozniakow, Nicolas. (See de Procoudine-Gorsky, S., and Pozniakow.)
- Prabell, Albert, Bellevue, Ky., assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio. Spacer for multiple baking pans. 1,729,011; Sept. 24.
- Prabell, Albert, Bellevue, Ky., assignor to Lockwood Manufacturing Company, Cincinnati, Ohio. Multiple-pan structure. 1,740,999; Dec. 24.
- Prachar, John, assignor to Prachar Manufacturing Corporation, Cleveland, Ohio. Ironing machine. 1,699,310; Jan. 15.
- Prachar Manufacturing Corporation. (See Prachar, John, assignor.)
- Pracny, John E., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Punch holder for double-bow heading machines. 1,709,876; Apr. 23.
- Pracny, John E., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Heading machine. 1,738,312; Dec. 3.
- Prairie Farmer Publishing Co., The. (See Inman, Edward K., jr., assignor.)
- Pramer, H. W., et al. (See Ingram, Clifton M., assignor.)
- Prange, Caroline M., Indianapolis, Ind. Darning attachment for sewing machines. 1,706,819; Mar. 26.
- Prange, Henry, Pleasantville, Iowa. Hog house. 1,701,337; Feb. 5.
- Pranti, Franz, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. High-power single-phase commutator motor, particularly for traction purposes. 1,697,138; Jan. 1.
- Pranti, Franz, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electric switch apparatus. 1,709,947; Apr. 23.
- Prat, Georges J. (See de Beauvais, Georges M. G., assignor.)
- Prath, John H., Brooklyn, N. Y. Railroad-crossing gate. 1,717,519; June 18.
- Prather, George W., Denver, Colo. Preparing water-softening material. 1,724,679; Aug. 13.
- Prather, George W., Santa Cruz, Calif. Axle press. 1,735,128; Nov. 12.
- Prati, Enrico, Asti, Calif. Folding box. 1,717,733; June 18.
- Pratt, Abraham, New York, N. Y. Dress. Des. 77,981; Mar. 12.
- Pratt, Arthur D., Short Hills, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater. 1,700,237; Jan. 29.
- Pratt, Arthur D., Short Hills, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater. 1,713,091; May 14.
- Pratt, Arthur J., Cambridge, assignor to American Optical Company, Southbridge, Mass. Producing receptacles. 1,699,712; Jan. 22.
- Pratt, Arthur J., Cambridge, assignor to American Optical Company, Southbridge, Mass. Case. 1,722,592; July 30.
- Pratt, Best, Chicago, Ill. Angle cock. 1,735,790; Nov. 12.
- Pratt, Charles A., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,702,571; Feb. 19.
- Pratt Chuck Company. (See Scarritt, Winthrop T., assignor.)
- Pratt, Clifton J., Tulsa, Okla., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon-oil conversion. 1,741,535; Dec. 31.
- Pratt, Della L., Lindfield, near Sydney, New South Wales, Australia. Determination of figure types. 1,741,335; Dec. 31.
- Pratt, Ernest C., Minneapolis, Minn. Mining transfer car. 1,714,239; May 21.
- Pratt & Florea, Inc. (See Pratt, L. E., and Sloan, assignor.)
- Pratt, Frank M., New York, N. Y. Spring-padding structure. 1,709,484; Apr. 16.
- Pratt, George R., Winnipeg, Manitoba, Canada. Furnace. 1,737,173; Nov. 26.
- Pratt, Harold I., et al., executors. (See Pratt, John T.)
- Pratt, Harvey S., Whiting, Iowa. Spark plug. 1,723,706; Aug. 6.
- Pratt, Henry, Company. (See Phillips, William H., assignor.)
- Pratt, Henry W., Jersey City, N. J., assignor to William H. Lutton Company, Pulley bracket. Des. 78,785; June 18.
- Pratt, Hugh, Chester, England. Piston for internal-combustion engines. 1,711,425; Apr. 30.
- Pratt, John T., deceased, New York, N. Y., H. I. and R. B. Pratt, executors. Making resistant plated tubing. 1,728,168; Sept. 10.
- Pratt, Lewellyn E., Nutley, N. J., and H. L. Sloan, Brooklyn, N. Y., assignors to Pratt & Florea, Inc., New York, N. Y. Advertising device. 1,741,434; Dec. 31.
- Pratt, Lewis M., El Dorado, Kans. Parting strip. 1,731,542; Oct. 15.
- Pratt, Norman F., Jacksonville, Fla. Oil burner. 1,711,965; May 7.
- Pratt, Raymond C., Chicago, Ill. Dispensing machine. 1,703,594; Feb. 26.
- Pratt, Richard H., Pelham Manor, N. Y. Spot welder. 1,720,570; July 9.
- Pratt, Ruth E., et al., executors. (See Pratt, John T.)
- Pratt-Rymer Company. (See Rymer, John A., assignor.)
- Pratt & Whitney Aircraft Co., The. (See Ryder, Earle A., assignor.)
- Pratt & Whitney Aircraft Company, The. (See Willgoos, Andrew V. D., assignor.)
- Pratt & Whitney Company. (See Hoagland, Frank O., assignor.)
- Pratt & Whitney Company. (See Hoagland, F. O., Mueller, and Lindstrom, assignors.)
- Pratt & Whitney Company. (See Mueller, Paul M., assignor.)
- Pratt & Whitney Company. (See Pond, Charles M., assignor.)
- Pratt & Whitney Company. (See Tanner, Hubert D., assignor.)
- Pratt & Whitney Company. (See Thacher, John J., assignor.)
- Pratt, William B., Wellesley, Mass., assignor to Dispersions Process, Inc., Dover, Del. Dispersing rubber in water. 1,731,725; Oct. 15.
- Pratt, William B., Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del. Aqueous rubber dispersion. 1,732,027; Oct. 15.



- Pratt, William H. (See Kinnard, I. F., and Pratt.)
- Pratt, William H., Cummins, Nebr. Screw driver. 1,714,045; May 21.
- Pratt, William H., Lynn, Mass., assignor to General Electric Company. Volt-ampere-indicating instrument. 1,698,276; Jan. 8.
- Pratt, William H., Lynn, Mass., assignor to General Electric Company. Induction meter. 1,722,157; July 23.
- Pratte, Charles A., assignor of one-half to C. E. Fuller, jr., Denver, Colo. Vacuum sander. 1,703,430; Feb. 26.
- Pray, Lucian A., Racine, Wis. Liquid-dispensing device. 1,712,470; May 7.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,741,583; Dec. 31.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for handling loose material. 1,742,009; Dec. 31.
- Preacher's Perfection File Company. (See Reese, Frank A., assignor.)
- Preble, George L. (See Eaton, Horace M., assignor.)
- Preble, Harold C., et al. (See Berg, Alfred J., assignor.)
- Preble, James J., deceased, Newton; L. Stebbins, administrator, assignor to Spraco, Inc., Somerville, Mass. Air cooling and cleaning apparatus. 1,705,534; Mar. 19.
- Preble, James J., deceased, Newton; L. Stebbins, administrator, assignor to Spraco, Inc., Somerville, Mass. Spray nozzle. 1,705,679; Mar. 19.
- Preble, James L., deceased, Newton; L. Stebbins, administrator, assignor to Spraco, Inc., Somerville, Mass. Filter-cell-washing machine. 1,705,680; Mar. 19.
- Preble, Norman H., assignor to Mechanical Handling Systems, Inc., Detroit, Mich. Conveyer. 1,720,690; July 16.
- Precision Castings Company Inc. (See During, William J., assignor.)
- Precision Metal Workers. (See Grunwald, Albert C., assignor.)
- Precision Scientific Co. (See Goldberg, Herman, assignor.)
- Precision Syrup Pump Company. (See Rahm, Frederick, assignor.)
- Preddy, Charles L., Mexia, Tex. Safety brake head for railway cars. 1,714,922; May 28.
- Predhumeau, Joseph, Le Puy, France. Signal. 1,721,833; July 23.
- Preferred Oil Burners, Inc. (See Aldrich, Lloyd I., assignor.)
- Prells, William H., et al. (See Hammer, Anthony J., assignor.)
- Prelesnik, Anton, Milwaukee, Wis. Trolley pole. 1,733,073; Oct. 22.
- Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor. 1,719,998; July 9.
- Premier Cushion Spring Company. (See Rissmann, Paul, assignor.)
- Premier Cutlery, Inc. (See Anderson, Russell M., assignor.)
- Premier Electric Company. (See Snell, James C., assignor.)
- Premo Electric Corporation. (See Dam, Henry M. R., assignor.)
- Premier Laboratory Company. (See Hutchison, Miller R., assignor.)
- Premier Sport Products, Inc. (See Gallagher, W. J., and Wolf, assignors.)
- Premier Staybolt Company, The. (See Curry, H. M., jr., and Finegan, assignors.)
- Premo, Fred, Kenosha, Wis. Garage door. 1,737,892; Dec. 3.
- Premont, Alphonse U., Springfield, Mass. Windshield for motor-cycles. 1,729,086; Sept. 24.
- Premro, Anton, St. Michael, Pa. Rail-joint support. 1,716,186; June 4.
- Prentice, G. E., Manufacturing Company. (See Child, Robert C., assignor.)
- Prentice, G. E., Manufacturing Company. (See Legat, Robert C., assignor.)
- Prentice, G. E., Manufacturing Company. (See Porter, Alphonso B., assignor.)
- Prentice, George E., Berlin, Conn. Slider for separable fasteners. 1,700,514; Jan. 29.
- Prentice, George E., Berlin, Conn. Interlocking fastener construction. 1,724,311; Aug. 13.
- Prentice, John, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Safety valve. 1,707,641; Apr. 2.
- Prentice, John, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler and blow-off device therefor. 1,722,058; July 23.
- Prentice, John, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater boiler. 1,727,177; Sept. 3.
- Prentice, John, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Handhole fitting. 1,734,343; Nov. 5.
- Prentice, Rudolph B., assignor of one-half to H. Barnes, Portland, Oreg. Saw. 1,716,976; June 11.
- Preo, John L., and I. Henne, Brooklyn, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on the soles of shoes. 1,697,251; Jan. 1.
- Preo, John L., and I. Henne, Brooklyn, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J. Workholding mechanism for shoe machines. 1,697,252; Jan. 1.
- Preo, John L., and I. Henne, New York, N. Y., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing heel seats. 1,706,497; Mar. 26.
- Prescott, Charles W., assignor to General Railway Signal Company, Rochester, N. Y. Indicating system for light signals. 1,733,977; Oct. 29.
- Prescott Company, The. (See Albrecht, Charles W., assignor.)
- Prescott Company, The. (See Grueter, William B., assignor.)
- Prescott Company, The. (See Langill, R. E., and Grueter, assignors.)
- Prescott Company, The. (See Percy, Edwin H., assignor.)
- Prescott, Frank H. (See Elsey, G. W., and Prescott.)
- Prescott, Frank H., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Relay. 1,727,035; Sept. 3.
- Prescott, John O. (See Capps, F. L., and Prescott.)
- Prescott, Le Roy A., assignor to Bennett Pumps Corporation, Muskegon, Mich. Grease dispenser. 1,715,329; May 28.
- Prescott, Le Roy A., assignor to Bennett Pumps Corp., Muskegon, Mich. Oil-tank bracing. 1,718,833; June 25.
- Prescott, William E., London, England, assignor to Baker Perkins Co. Inc., Saginaw, Mich. Machine for depositing plastic or semiliquid substances such as chocolate. 1,699,447; Jan. 15.
- Prescott, William E., London, England, assignor, by mesne assignments, to Baker Perkins Company Inc., Saginaw, Mich. Pump of wafer-biscuit and similar machines. 1,736,863; Nov. 26.
- Prescott, William E., and J. P. Bunce, London, England, assignors to Baker Perkins Co. Inc., Saginaw, Mich. Apparatus for treating chocolate. 1,727,444; Sept. 10.
- Presher, Raymond, assignor to Oakland California Towel Company, Oakland, Calif. Towel-ironing machine. 1,732,278; Oct. 22.
- Press, Jacob H., assignor to Jacob Press' Sons, Chicago, Ill. Vehicle body. Re17,188; Jan. 8.
- Press, Jacob, Sons. (See Press, Jacob H., assignor.)
- Pressed Metal Products Company, The. (See Kanter, William, assignor.)
- Pressed Steel Car Company. (See Brinckerhoff, Francis M., assignor.)
- Pressed Steel Car Company. (See Koch, Felix, assignor.)
- Pressed Steel Car Company. (See Kurtz, Benjamin F., assignor.)
- Pressed Steel Car Company. (See Lambe, George C., assignor.)
- Pressed Steel Car Company. (See Pehrson, Alfred K., assignor.)
- Pressed Steel Car Company. (See Schmohl, Alfred C., assignor.)
- Pressed Steel Car Company. (See Schmohl, A. C., and Anderson, assignors.)
- Pressed Steel Car Company. (See Suckfield, George A., assignor.)
- Pressed and Welded Steel Products Company. (See Has-kin, Walter E., assignor.)
- Pressell, George W., assignor to E. F. Houghton and Company, Philadelphia, Pa. Carburizing material. 1,741,336; Dec. 31.
- Pressley, C. R., et al. (See Williams, French B., assignor.)
- Pressley, Clarence R., Fort Worth, Tex. Cotton gin. 1,717,324; June 11.
- Pressley, Clarence R., and F. B. Williams, Fort Worth, Tex. Cotton gin. 1,738,391; Dec. 3.
- Pressley, John F., Toronto, Ontario, Canada. Bottle cooler. 1,719,943; July 9.
- Pressteel Radiator Company. (See Carlberg, Carl S., assignor.)
- Prest, Clarence O., Arlington, Calif. Airplane. 1,718,834; June 25.
- Prestholt, Henry L., Minneapolis, Minn. Rendering glue waterproof. 1,701,763; Feb. 12.
- Prestinari, Eugen, Irvington, assignor to Gemex Company, Newark, N. J. Bracelet. 1,700,298; Jan. 29.
- Prestinari, Eugen, Irvington, assignor to Gemex Company, Newark, N. J. Chain. 1,720,235; July 9.
- Prest-O-Lite Storage Battery Corporation. (See Benner, R. C., and Werking, assignors.)
- Prest-O-Lite Storage Battery Corporation. (See Parsons, Joe B., assignor.)
- Prest-O-Lite Storage Battery Corporation. (See Wilson, H. D., and Hopkins, assignors.)
- Presto Lock Corporation. (See Levine, Abraham, assignor.)
- Preston, Frederick W., assignor to Keystone Roofing Manufacturing Company, York, Pa. Shingle. 1,703,170; Feb. 26.
- Preston, George E. (See Colbert, C. C., and Preston.)
- Preston, George L., Elliott, Ill. File. 1,716,187; June 4.
- Preston, Harrison O., Port Arthur, Tex., assignor, by mesne assignments, to the Texas Company, New York, N. Y. Solder-wiping machine. 1,702,745; Feb. 19.
- Preston, Laurence R., Devonport, England. Solder for aluminum or its alloys. 1,711,807; May 7.
- Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Speed-indicating means for cars. 1,720,635; July 9.
- Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Automatic train-control system. 1,733,976; Oct. 29.
- Prestop Limited. (See Cole, Herbert, assignor.)



- Prestwich, Frank M., New York, N. Y. Blindstitch-sewing machine. 1,735,584; Nov. 12.
- Pretz-Sticks Baking Company. (See Holtzman, George W., assignor.)
- Pribil, Alexis R., Saginaw, Mich. Trolley for chain conveyers. 1,721,316; July 16.
- Pribil, Alexis R., Saginaw, Mich. Self-lubricating pressed-steel ball-bearing wheel. 1,729,124; Sept. 24.
- Pribil, Alexis R., Saginaw, Mich. Pick-up truck. 1,734,778; Nov. 5.
- Price, Albert O., Leesville, Ohio. Radiocabinet. 1,727,558; Sept. 10.
- Price, Charles D., Clinton, Mo. Grinder for timers. 1,719,725; July 2.
- Price, Charles S., Bethlehem, assignor to L. F. Grammes & Sons, Inc., Allentown, Pa. Sawing machine. 1,724,042; Aug. 13.
- Price, Charles S., Bethlehem, Pa., assignor to L. F. Grammes & Sons, Inc. Nailing machine. 1,731,726; Oct. 15.
- Price, Emil, and W. A. Pfister, Los Angeles, Calif. Shower valve. 1,704,950; Mar. 12.
- Price, Evan C., and T. L. Hanley, Springfield, Ohio. Highway grade crossing for railways. 1,729,359; Sept. 24.
- Price, Evan C., and T. L. Hanley, Springfield, Ohio. Highway grade crossing for railways. 1,729,360; Sept. 24.
- Price, Frank L., et al. (See Poole, John H., assignor.)
- Price Inside Operated Awning Corp. (See Price, John, assignor.)
- Price, Jacob L., New York, N. Y., assignor to Bendix Brake Company, Chicago, Ill. Brake drum. 1,702,391; Feb. 19.
- Price, James B., Pittsburgh, Pa. Control system. 1,698,560; Jan. 8.
- Price, John M., Arvada, Colo. Sealing means for pistons. 1,730,478; Oct. 8.
- Price, John W., Toronto, Ontario, Canada, assignor to Price Inside Operated Awning Corp., Buffalo, N. Y. Awning operator. 1,719,850; July 9.
- Price, Joseph W., jr. (See Light, R. A., and Price.)
- Price, Menno S., Santa Cruz, Calif. Kiln. 1,727,217; Sept. 3.
- Price, Owen A., Kilmarnock, Ayrshire, Scotland. Hydraulic jet-dispersal nozzle. 1,736,937; Nov. 26.
- Price, Owen A., Kilmarnock, Scotland. Automatic self-closing valve. 1,736,938; Nov. 26.
- Price, Paul L., Mount Vernon, N. Y., assignor to Irving Iron Works Company. Continuous grating structure. 1,733,902; Oct. 29.
- Price, Paul L., Mount Vernon, N. Y., assignor to Irving Iron Works Company. Continuous grating structure. 1,733,903; Oct. 29.
- Price, Peter F., Bentley, Mich. Air compressor. 1,729,548; Sept. 24.
- Price, Robert C., and H. S. Cooper, Cleveland, Ohio, assignors, by mesne assignments, to Beryllium Corporation of America. Making beryllium oxide. 1,710,840; Apr. 30.
- Price, Thaddeus R. (See Hargreaves, William, assignor.)
- Price, Wallace, Edinburg, Ill. Combined door check and closer. 1,737,093; Nov. 26.
- Price, William E., White Plains, N. Y. Device for producing electric-light display effects. 1,719,622; July 2.
- Price, William E., White Plains, N. Y. Electric-lighted display sign or emblem. 1,740,747; Dec. 24.
- Price, William E., White Plains, assignor to Aurora Beacon Corporation, New York, N. Y. Sign. 1,712,355; May 7.
- Price, William E., White Plains, assignor to Aurora Beacon Corporation, New York, N. Y. Sign. 1,725,997; Aug. 27.
- Price, William G., Yakima, Wash., assignor to McCleary Hydraulic Brake Company. Hydraulic brake. 1,710,032; Apr. 23.
- Price, William J., Stamford, Conn. Hot-air brush and drier for printing presses. 1,737,174; Nov. 26.
- Price, William M., Fitchburg, Mass. Coat hanger and coat-securing means. 1,713,621; May 21.
- Price, William T., Minneapolis, Minn. Window. 1,733,694; Oct. 29.
- Prichard, George L., and H. Henderson, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Cracking still. 1,734,827; Nov. 5.
- Prichard, Walter C., Berkeley, Calif. Automobile headlight. 1,702,746; Feb. 19.
- Prichet, Edward L., Chicago, Ill. Folding table. 1,709,540; Apr. 16.
- Prickett, Clyde W., Santa Monica, Calif. Wall-anchoring device. 1,699,206; Jan. 15.
- Pride, Ira G., Medford, assignor, by mesne assignments, to C. D. Ide, Wellesley, Mass. Ornamental shade. 1,726,452; Aug. 27.
- Priebe, Amandus and H., Antigo, Wis. Safety device for submarines. 1,697,020; Jan. 1.
- Priebe, Herman C., Blue Island, Ill. Truck for railway vehicles. 1,697,513; Jan. 1.
- Priebe, Herman C., Blue Island, Ill. Truck for railway vehicles. 1,697,514; Jan. 1.
- Priebe, Herman C., Blue Island, assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake gearing for railway cars. 1,735,055; Nov. 12.
- Priebe, Hubert. (See Priebe, Amandus and H.)
- Priem, Paul, Heidenheim-on-the-Brenz, Germany, assignor to American Voth Contact Company, Inc., New York, N. Y. Paper-making machine. 1,702,131; Feb. 12.
- Priess, William H., Belmont, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Condenser and process. 1,721,503; July 23.
- Priest, Frank L., St. Louis, Mo. Multifaced sign. 1,713,053; May 14.
- Priester, Harry, executor. (See Fallot, Alfred.)
- Prigge, Henry, New York, assignor of three-fourths to D. Hecht, Yonkers, N. Y. Punctureproof resilient insert for tires. 1,725,882; Aug. 27.
- Prima, Arturo, (Fordson, Mich. Buckle. 1,741,876; Dec. 31.
- Prima Manufacturing Company. (See Stroschein, Edward, assignor.)
- Primbs, George, jr., Pocatello, Idaho. Lock device for numbering machines. 1,734,399; Nov. 5.
- Prime, Edward J., Groveland, Mass. Spring support for vehicle bodies. 1,716,564; June 11.
- Prime, Orton L., Milwaukee, Wis. Windshield. 1,714,135; May 21.
- Primmer, Frank A., Mishawaka, Ind. Horseshoe. 1,698,415; Jan. 8.
- Primrose, John, Richmond, assignor to Foster Wheeler Corporation, New York, N. Y. Fractional distillation. 1,707,369; Apr. 2.
- Primrose, John, Richmond, assignor to Foster Wheeler Corporation, New York, N. Y. Return header. 1,710,513; Apr. 23.
- Primrose, John, Richmond, assignor to Foster Wheeler Corporation, New York, N. Y. Method of and apparatus for separating oil and oil vapors. 1,723,748; Aug. 6.
- Primrose, John, Richmond, assignor to Foster Wheeler Corporation, New York, N. Y. Heating oil. 1,738,263; Dec. 3.
- Primrose Tapestry Co. (See Newton, James F., assignor.)
- Prince, Alice C. (See Prince, Leslie C. and A. C.)
- Prince, Arthur C., Chicago, Ill. Registering bank. 1,700,447; Jan. 29.
- Prince, Arthur C., Chicago, Ill. Registering bank. 1,700,448; Jan. 29.
- Prince, Charles B., Burchetts Green, England, assignor to Radio Corporation of America. Electric call apparatus. 1,731,983; Oct. 15.
- Prince, Clarence K., Westfield, Mass., deceased; R. K. Prince, administrator. Device for controlling independently an intermittent motion on gravity conveyers. 1,716,664; June 11.
- Prince, David C., Schenectady, N. Y., assignor to General Electric Company. System of distribution. 1,717,581; June 18.
- Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,721,410; July 16.
- Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Electric Discharge apparatus. 1,723,888; Aug. 6.
- Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupting system. 1,733,904; Oct. 29.
- Prince, George W., Clemenceau, Ariz., assignor to United Verde Extension Mining Company, New York, N. Y. Smelting ores in reverberatory furnaces. 1,700,515; Jan. 29.
- Prince, Leslie C. and A. C., Chicago, Ill. Combined clasp and hook. 1,703,952; Mar. 5.
- Prince Macaroni Manufacturing Company Inc. (See Cantella, Michele, assignor.)
- Prince, Robert K., administrator. (See Prince, Clarence K.)
- Prince-Smith, William, and D. Waterhouse, Keighley, England. Roller of spinning, twisting, roving, and analogous machines. 1,710,275; Apr. 23.
- Prince, William B. (See Ulrich, H. W., and Prince.)
- Prindle, Glen A., near Reasnor, Iowa. Four-cycle internal-combustion engine. 1,725,418; Aug. 20.
- Prindle, Karl E. (See Charch, W. H., and Prindle.)
- Prindle, Raymond B., Schenectady, N. Y., assignor to General Electric Company. Terminal for space current devices. 1,716,930; June 11.
- Prindle, Raymond B., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 1,716,931; June 11.
- Pringle, Harry C., Hyde Park, Mass. Closure for paste tubes. 1,738,728; Dec. 10.
- Pringle, William A., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold book. 1,699,631; Jan. 22.
- Printel Manufacturing Corporation. (See Roe, William C., assignor.)
- Printers Supply Company. (See Gydesen, A., Froberg, and Keenan, assignors.)
- Printing Machinery Company, The. (See Simpson, Harold T., assignor.)
- Printing Register Co. (See Widemann, T. W., and Harris, assignors.)
- Printz, Oscar A. K., Overum, Sweden. Power lift mechanism for plows. 1,718,002; June 18.
- Printz, Oscar A. K., Overum, Sweden. Plow. 1,720,691; July 16.
- Printz, Oscar A. K., Overum, Sweden. Disk harrow. 1,723,576; Aug. 6.
- Printz, Oscar A. K., Overum, Sweden. Plow. 1,734,878; Nov. 5.
- Prinzler, Carl J., Indianapolis, Ind. Panic-door-operating bar. Des. 78,714; June 11.



- Prinzler, Carl J., assignor to Vonnegut Hardware Company, Indianapolis, Ind. Concealed emergency exit latch. 1,721,489; July 16.
- Prior, Porter A., Ypsilanti, Mich. Motor sleigh. 1,697,693; Jan. 1.
- Prisbe, Herman C., Blue Island, Ill. Draft gear. 1,707,138; Mar. 26.
- Priser, David F. (See Fridstein, H. B., and Priser.)
- Priser, David F., North Manchester, Ind. Water heater. 1,734,828; Nov. 5.
- Pritchard, Carl G., Hiram, assignor, by mesne assignments, to Harris-Seybold-Potter Company, Cleveland, Ohio. Printing press. 1,700,139; Jan. 29.
- Pritchard, Carl G., Hiram, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Ink fountain. 1,733,168; Oct. 29.
- Pritchard, David A., Windsor, and J. H. Hubel, Sandwich, Ontario, assignors to Canadian Industries Limited, Montreal, Canada. Obtaining pure chlorine. 1,723,300; Aug. 6.
- Pritchard, George E., Elizabeth City, N. C. Bean harvester. 1,726,716; Sept. 3.
- Pritchard, Reuben L., Hampstead, London, England. Apparatus for separating fibers from bast plants and other adhering fibers. 1,722,110; July 23.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Windshield. 1,706,540; Mar. 26.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Windshield. 1,732,417; Oct. 22.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Actuator. 1,736,050; Nov. 19.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Windshield weather strip. 1,737,094; Nov. 26.
- Pritchard, William S., Mount Vernon, N. Y., and W. T. Birdsall, Montclair, N. J., assignors to Trans-Lux Daylight Picture Screen Corporation, New York, N. Y. Controlling the movement of tapes. 1,727,901; Sept. 10.
- Pritchett, Claudius P., and P. H. Williams, Macon, Ga. Motor tractor. 1,709,739; Apr. 16.
- Pritchett, Rufus H., Rensselaer, N. Y., assignor to Winthrop Chemical Company, Inc., New York, N. Y. Preparing phenyl-oxalyl acetic-acid alkyl esters. 1,741,877; Dec. 31.
- Pritchett, William J., Sydney, Australia. Electric plug and socket. 1,736,887; Nov. 26.
- Pritham, Henry C., Upper Darby, Pa. Tracer composition. 1,708,151; Apr. 9.
- Pritz, Lawrence G. (See Tyson, Frank, assignor.)
- Privat, Bernard, et al. (See Cross, Anne W., assignor.)
- Privett, Henry C., assignor of one-fourth to E. B. Sweetman, Los Angeles, Calif. Helicopter. 1,739,984; Dec. 17.
- Privott, John H., and B. C. Williams, Norfolk, Va. Bridge-wall construction for furnaces. 1,699,018; Jan. 15.
- Prizer, William M., assignor to William Mann Company, Philadelphia, Pa. Safety paper. Des. 77,707; Feb. 12.
- Prizer, William M., assignor to William Mann Company, Philadelphia, Pa. Safety paper. Des. 78,786; June 18.
- Prizmalite Company. (See Harris, George R.)
- Pro, Frank W., Kingman, Kans. Field ensilage-cutting machine. 1,727,616; Sept. 10.
- Proaps, Sherman, et al. (See Boland, Virgil E., assignor.)
- Probert, Clarence C., Flint, Mich. Refrigerator door. 1,698,509; Jan. 8.
- Probert, Sidney C., and R. E. Spurr, Detroit, Mich., assignors, by mesne assignments, to Chrysler Corporation. Machine for grinding twist drills. 1,710,647; Apr. 23.
- Probert, Sidney C., and R. E. Spurr, Detroit, Mich., assignors, by mesne assignments, to Chrysler Corporation. Machine for grinding the end faces of the lips of twist drills. 1,714,136; May 21.
- Probst, Emil, and F. Tölke, Karlsruhe, Germany. Open-structure dam. 1,736,939; Nov. 26.
- Process Development Company. (See Goodwin, Elizabeth M., assignor.)
- Process Engineers, Incorporated. (See De Cew, Judson A., assignor.)
- Procoff-Seversky, Alexander, New York, N. Y. Aerial filling device. 1,728,449; Sept. 17.
- Procter and Gamble Company, The. (See Graebe, Herman C., assignor.)
- Procter & Gamble Company, The. (See Manderson, Harold A., assignor.)
- Proctor, Barton A., assignor to The Automatic Advertiser, Inc., New York, N. Y. Projecting machine. 1,714,816; May 28.
- Proctor, Barton A., assignor, by mesne assignments, to News Projection Corporation, New York, N. Y. Air-cooling mechanism for projecting machines. 1,716,322; June 4.
- Proctor, Barton A., Pelham Manor, assignor to W. G. Morse, trustee, New York, N. Y. Photographic apparatus. 1,736,750; Nov. 19.
- Proctor, Barton A., assignor, by mesne assignments, to News Projection Corporation, New York, N. Y. Stock-quotation-projecting machine. 1,738,313; Dec. 3.
- Proctor, Charles A., Hanover, N. H. Toe piece for skis. 1,735,359; Nov. 12.
- Proctor, George A., assignor of one-half to C. D. Higginson, Los Angeles, Calif. Manually-propelled vehicle for children. 1,705,681; Mar. 19.
- Proctor, George A., Belmont, Mass., assignor to W. A. Gordon, jr., Shelton, Conn. Closure structure. 1,709,948; Apr. 23.
- Proctor, John A., Lexington, and W. M. Bailey, Lynn, assignors to Wireless Specialty Apparatus Company, Boston, Mass. Electrical condenser. 1,697,477; Jan. 1.
- Proctor, John A., Lexington, and W. M. Bailey, Lynn, assignors to Wireless Specialty Apparatus Company, Boston, Mass. Electrical condenser. 1,738,314; Dec. 3.
- Proctor, Robert V., assignor to The Commercial Shearing & Stamping Company, Youngstown, Ohio. Drying rack. 1,708,588; Apr. 9.
- Proctor & Schwartz, Incorporated. (See Allen, Thomas W., assignor.)
- Proctor & Schwartz, Incorporated. (See Ayres, Elwood B., assignor.)
- Proctor & Schwartz, Incorporated. (See Fagan, John L., assignor.)
- Proctor & Schwartz, Incorporated. (See Griffith, C. T., and Fagan, assignors.)
- Proctor & Schwartz, Incorporated. (See Hurxthal, Alpheus assignor.)
- Proctor & Schwartz, Inc. (See Hurxthal, Alpheus O., assignor.)
- Proctor & Schwartz, Incorporated. (See Hurxthal, A. O., and Bogaty, assignors.)
- Proctor & Schwartz, Incorporated. (See Meehan, Ellen F., assignor.)
- Proctor & Schwartz, Incorporated. (See Morrison, Charles S., assignor.)
- Proctor & Schwartz, Incorporated. (See Schwartz, Walter M., assignor.)
- Proctor & Schwartz, Incorporated. (See Wanamaker, Harry F., assignor.)
- Prodis, Kiriakos. (See Nock, J. R., and Prodis.)
- "Prodor" Fabrique de Produits Organiques S. A. (See Lévy, Marcel, assignor.)
- Prodromos, George, assignor, by mesne assignments, to one-half to S. Cocores, Winston-Salem, N. C. Detachable wheel rim. 1,732,590; Oct. 22.
- Production Meter Company. (See Cannon, Frank J., assignor.)
- Productive Equipment Corporation. (See Soldan, Lewis E., assignor.)
- Products Machine Company, The. (See Marsilius, Newman M., assignor.)
- Products Protection Corporation, The. (See Smith, Franklin S., assignor.)
- Proff, M., Co., The. (See Shapiro, Hyman, assignor.)
- Proffitt, Arba A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tool. 1,701,633; Feb. 12.
- Proffitt, Russell P., St. Louis, Mo., assignor to The Timken Roller Bearing Company, Canton, Ohio. Shaft-hanger bearing. 1,696,972; Jan. 1.
- Prohaskev, Charles, Larksville, Pa. Automobile tire lock. 1,732,168; Oct. 15.
- Prokop, John Boerne, Tex. Insect destroyer. 1,706,541; Mar. 26.
- Proksa, John, assignor to Helios Corporation, Chicago, Ill. Driving mechanism. 1,708,520; Apr. 9.
- Proksa, John, assignor to Helios Corporation, Chicago, Ill. Picture-projecting apparatus. 1,708,521; Apr. 9.
- Prollius, Otto, Bergedorf, near Hamburg, assignor to the firm Bergedorfer Eisenwerk Aktiengesellschaft, Saude, near Bergedorf, Germany. Liquid heater. 1,699,919; Jan. 22.
- Pro-phy-lac-tic Brush Company. (See Elliot, William S., assignor.)
- Pro-phy-lac-tic Brush Company. (See Noble, William, assignor.)
- Propp, Louis, New York, N. Y. Switch-controlled electrical connector plug. 1,706,900; Mar. 26.
- Propp, Louis, New York, N. Y. Decorative illuminating device. 1,707,539; Apr. 2.
- Propp, M., Co., The. (See Propp, Morris, assignor.)
- Propp, Morris. (See Hertzberg, Harry, assignor.)
- Propp, Morris, New York, N. Y. Electrical attachment plug. 1,703,953; Mar. 5.
- Propp, Morris, assignor to The M. Propp Co. Inc., New York, N. Y. Decorative device. 1,726,585; Sept. 3.
- Proschko, Franz, Vienna, assignor to Esseff Chemische Industrie- und Handels-Aktiengesellschaft, Linz, Austria. Double salts of carboxylic acids of aromatic sulphonic halogen-alkali-amides and manufacturing same. 1,697,139; Jan. 1.
- Proscio Oils Corporation. (See Eddy, Clarence F., assignor.)
- Prosperity Company, The. (See Braun, Philip N., assignor.)
- Prosperity Company, The. (See Daly, Joseph P., assignor.)
- Prosperity Company, The. (See Davis, Ernest, assignor.)
- Prosperity Company, The. (See Kagi, Albert, assignor.)
- Prosperity Company, The. (See Ledbetter, James C., assignor.)
- Prosperity Company, The. (See Steele, Harry A., assignor.)
- Prosperity Company, The. (See Von Stetten, J. O., and Hoffmann, assignors.)
- Prosperity Co. Inc., The. (See Clisson, A. B., and Braun, assignors.)
- Prosperity Company Inc., The. (See Davis, Ernest, assignor.)



- Prosperity Company, Inc., The. (See Fisher, Ernest F., assignor.)
- Prosperity Company Inc., The. (See Kienzle, Lester C., assignor.)
- Prosperity Company Inc., The. (See Lindy, Aaron D., assignor.)
- Prosperity Company Inc., The. (See McDermott, Harry H., assignor.)
- Prosperity Company Inc., The. (See Reeps, Charles O., assignor.)
- Pross, William L. (See Pross, William L., jr., assignor.)
- Pross, William L., jr., assignor to W. L. Pross, Danbury, Conn. Toaster. 1,708,522; Apr. 9.
- Prosser, Charles A. (See Young, Charles L., assignor.)
- Prosser, Joseph G., Chicago, Ill. Method and apparatus for obtaining work in internal-combustion engines. 1,711,249; Apr. 30.
- Prosser, Robert H., Oakland, Calif. Resilient wheel. 1,731,059; Oct. 8.
- Prosser, Thomas W., Kankakee, assignor to Paramount Textile Machinery Co., Chicago, Ill. Drying structure. 1,717,623; June 18.
- Protectoseal Company of America. (See Anschicks, Rudolph J., assignor.)
- Protex Chain Company. (See Peters, Oscar M., assignor.)
- Protzeller, Harry W., assignor to O. F. Jordan Company, East Chicago, Ind. Electromagnetic valve. 1,709,095; Apr. 16.
- Protzeller, Harry W., assignor to O. F. Jordan Company, East Chicago, Ind. Duplex hose. 1,718,978; July 2.
- Protzeller, Harry W., assignor to O. F. Jordan Company, East Chicago, Ind. Tower car. 1,718,979; July 2.
- Frotzer, Fritz, Detroit, Mich. Self-closing valve. 1,741,250; Dec. 31.
- Proudfit Loose-Leaf Co. (See Graf, Edward F., assignor.)
- Proudfit Loose Leaf Company, The. (See Graf, E. F., and Vander Veen, assignors.)
- Prouty, Charles N., Spencer, Mass. Inner sole. 1,737,682; Dec. 3.
- Prouty, Enoch, et al. (See Ackerman, Harold T., assignor.)
- Prouty, Kenneth A. (See Scott, W. A., and Prouty.)
- Providence Machine Works. (See Rhoades, Edward F., assignor.)
- Providence Stock Company. (See Lederer, Sigmund L., assignor.)
- Providence Stock Company. (See Myrberg, Sven O., assignor.)
- Providence Stock Company. (See Samuels, Benjamin S., assignor.)
- Province, Frank W., and W. C. Barnes, Camas, Wash. Fishway. 1,718,181; June 18.
- Provost, Abraham, Winnipeg, Manitoba, Canada. Folding chair. 1,726,856; Sept. 3.
- Provost, James J., York, Pa. Steam turbine. 1,737,517; Nov. 26.
- Provost, Laurence R., Shawnee, and H. Brown, Kansas City, Kans. Adjustable seat. 1,699,249; Jan. 15.
- Provost, Laurence R., Shawnee, and H. Brown, Kansas City, Kans. Adjustable seat. 1,732,169; Oct. 15.
- Prowse, Francis J., San Jose, assignor to California Packing Corporation, San Francisco, Calif. Method of and apparatus for blending and mixing dried fruit. 1,724,515; Aug. 13.
- Prowse, Francis J., San Jose, R. D. Robinson, Oakland, E. M. Hall, Fresno, and C. F. Fleming, San Jose, assignors to California Packing Corporation, San Francisco, Calif. Controlling the sulphur-dioxide content of dried fruit. 1,724,514; Aug. 13.
- Prsha, Frank, Tacoma, Wash. Measuring instrument. 1,718,003; June 18.
- Prudden, Theodore M. (See Benson, William E., assignor.)
- Pruden, Harold M., Wyoming, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay commutator. 1,708,955; Apr. 16.
- Pruden, Harold M., Wyoming, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 1,711,651; May 7.
- Prudhomme, Eugène A., Neuilly-sur-Seine, assignor to Société Internationale des Procédés Prudhomme (S. I. P. P.), Paris, France. Manufacture of carbureting liquids similar to petrol. 1,711,855; May 7.
- Prudhomme, Eugène A., Neuilly-sur-Seine, assignor to Société Internationale des Procédés Prudhomme (S. I. P. P.), Paris, France. Manufacture of synthetic liquid fuels. 1,711,856; May 7.
- Prüss, Max, Essen, Germany. Accelerating the sludge digestion for sewage treatment. 1,722,945; July 30.
- Prussen, John A., Denver, Colo. Nut lock. 1,738,482; Dec. 3.
- Prutton, Daniel H., Cleveland, Ohio. Saw vise. 1,721,834; July 23.
- Prutzman, Paul W. (See Wheeler, R. C., and Prutzman.)
- Pryce, Leslie, Johannesburg, Union of South Africa. Hollow drill steel. 1,697,086; Jan. 1.
- Prym, William, G. m. b. H. (See Tuxhorn, Wilhelm, assignor.)
- Pryor, Clarence E. (See Coote, J. M., and Pryor.)
- Pryor, Elmer E. (See Wilson, G. M., and Pryor.)
- Przybyszewski, Stanley, assignor to Stella Mowszczyk, Sagnaw, Mich. Power take-off. 1,738,924; Dec. 10.
- Publius Limited. (See Connell, John W., assignor.)
- Public Service Cup Company. (See Smith, Charles F., assignor.)
- Publishers Autocaster Service Company. (See Luther, John A., assignor.)
- Puccia, Giovanni, Modica, Italy. Folding furniture. 1,724,220; Aug. 13.
- Puccini, Joseph V., and W. L. Guise, Dover, N. J., assignors to H. T. Richardson, New York, N. Y. Apparatus for forming screw threads. 1,713,553; May 21.
- Pucek, Felix, assignor of one-half to J. Furman, Chicago, Ill. Lady's hand bag. 1,730,745; Oct. 8.
- Puckett, Paul R., Atlanta, Ga., assignor, by mesne assignments, to Bond Electric Corporation, New York, N. Y. Flash light. 1,731,438; Oct. 15.
- Puckett, Paul R., Atlanta, Ga., assignor to Chase Companies Inc., Waterbury, Conn. Portable electric hand lamp. 1,735,545; Nov. 12.
- Pudelko, Riccard, Zug, Switzerland, assignor to Landis & Gyr A.-G. Electricity meter. 1,726,765; Sept. 3.
- Pudelko, Riccard, assignor to Landis & Gyr A.-G., Zug, Switzerland. Device for indicating apparent energy consumption. 1,736,090; Nov. 19.
- Puening, Franz, Aspinwall, Pa. Process and apparatus for making coke. 1,699,448; Jan. 15.
- Puening, Franz, Pittsburgh, Pa. Distilling carbonaceous material. 1,698,240; Jan. 8.
- Puening, Franz, Pittsburgh, Pa. Distilling carbonaceous materials. 1,698,345; Jan. 8.
- Puening, Franz, Pittsburgh, Pa. Art of and apparatus for distilling carbonaceous materials. 1,698,346; Jan. 8.
- Puening, Franz, Pittsburgh, Pa. Distilling carbonaceous material. 1,698,347; Jan. 8.
- Puening, Franz, Pittsburgh, Pa. Apparatus for distilling carbonaceous materials. 1,698,348; Jan. 8.
- Puening, Franz, Pittsburgh, Pa. Apparatus for distilling carbonaceous material. 1,698,349; Jan. 8.
- Puening, Franz, O'Hara Township, Allegheny County, Pa., assignor to The Koppers Company. Coke-oven apparatus. 1,741,164; Dec. 31.
- Puffer-Hubbard Manufacturing Co. (See Puffer, Paul H., assignor.)
- Puffer, Paul H., assignor to Puffer-Hubbard Manufacturing Co., Minneapolis, Minn. Repair form. 1,724,724; Aug. 13.
- Pugh, Emerson. (See Fay, O. J., Heimberger, and Pugh.)
- Pugh, Emerson, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for feeding material. 1,706,741; Mar. 26.
- Pugh, John V., assignor to Rudge-Whitworth, Limited, Coventry, England. Wire-spoke-wheel building. 1,724,312; Aug. 13.
- Pugh, John V., and F. Anstey, assignors to Rudge-Whitworth, Limited, Coventry, England. Wheel brake for vehicles. 1,722,233; July 23.
- Pugh, John V., and G. T. Bayliss, assignors to Rudge-Whitworth, Limited, Coventry, England. Rotational device such as vehicle wheels. 1,737,332; Nov. 26.
- Pugh, John V., and W. H. Whitmill, assignors to Rudge-Whitworth, Limited, Coventry, England. Cycle or like brake. 1,706,542; Mar. 26.
- Pugh, William J., Oakland, Calif. Self-propelled vehicle. 1,707,925; Apr. 2.
- Pugh, William J., Berkeley, Calif. Golf tee. 1,717,318; June 11.
- Pujals, Enrique, Habana, Cuba. Seat. 1,703,779; Feb. 26.
- Pukerud, Thomas S., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Exhaust or circulating fan. 1,699,751; Jan. 22.
- Pullar, Harold B., Detroit, Mich. Performed expansion joint. 1,701,628; Feb. 12.
- Pullar, Harold B., Detroit, Mich. Preformed expansion joint. 1,701,629; Feb. 12.
- Pullar, Harold B., Detroit, Mich. Building material. 1,701,630; Feb. 12.
- Pullclean Manufacturing Corporation. (See Addler, Joseph H., assignor.)
- Pullen, Fred W., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper case. 1,739,521; Dec. 17.
- Pulliam, Clarence, Detroit, Mich. Transmission mechanism. 1,739,417; Dec. 10.
- Pullman Car and Manufacturing Corporation. (See Lunn, Ernest, assignor.)
- Pullman Car and Manufacturing Corporation. (See Mussey, William H., assignor.)
- Pullman Car & Manufacturing Corporation. (See Powell, Gomert, assignor.)
- Pullman Car and Manufacturing Corporation. (See Test, E. W., and Mussey, assignors.)
- Pullman Car & Manufacturing Corporation. (See Trant, J. J., and Jensen, assignors.)
- Pullman Company, The. (See Carry, Edward F., assignor.)
- Pullman Company, The. (See Lunn, Ernest, assignor.)
- Pullman Company, The. (See Parke, P., and Marshall, assignors.)
- Pullman Couch Company. (See Lowery, L. H., and Kramer, assignors.)
- Pulp Binders Development Company Limited. (See Carpenter, S. W., and White, assignors.)
- Pulpore Can & Box Co., The. (See Apfelbaum, William, assignor.)
- Pulsifer, G. H., Co. (See Banks, Ralph C., assignor.)
- Pulsifer, Harold T., New York, N. Y. Amusement device. 1,709,373; Apr. 16.
- Pulster, Henry, Philadelphia, Pa. Binder for textile machinery. 1,727,783; Sept. 10.



- Pulster, Henry, Philadelphia, Pa. Binder for textile machinery. 1,727,784; Sept. 10.
- Pulver, Arthur R., Adams Basin, N. Y. Ash remover for producer-gas generators. 1,719,519; July 2.
- Pumphrey, Walter H., Pleasant Plains, assignor to A. H. Grebe & Co., Inc., Richmond Hill, N. Y. Acoustical device. 1,709,485; Apr. 16.
- Püngel, Wilhelm, Dortmund, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Düsseldorf, Germany. Improving the strength qualities of steel wire. 1,732,615; Oct. 22.
- Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, and T. Hellthaler, Granschütz, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Bleaching Montan wax. 1,698,450; Jan. 8.
- Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Bleaching Montan wax. 1,699,250; Jan. 15.
- Pungs, Wilhelm, Ludwigshafen-on-the-Rhine and M. Jahrstorfer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Treatment of Montan wax. 1,737,975; Dec. 3.
- Pungs, William A., Detroit, Mich. Holding device. 1,696,973; Jan. 1.
- Punke, John J., assignor to Hupp Motor Car Corporation, Detroit, Mich. Instrument-panel faceplate. Des. 77,911; Mar. 5.
- Pupp, Max B., assignor of one-half to C. K. Gtowals, Souderton, Pa. Flying machine of the aeroplane type. 1,700,107; Jan. 22.
- Purcell, Laurence J., New York, N. Y. Parking indicator. 1,719,560; July 2.
- Purcell, Mark, New York, N. Y., assignor to Diamond Candle Co., Inc. Night-light and votive-light holder. 1,741,337; Dec. 31.
- Purcell, Thomas E., Pittsburgh, Pa., assignor to International Combustion Engineering Corporation. Furnace construction. 1,710,241; Apr. 23.
- Purcell, William F. (See Hiltz, G. S., and Purcell.)
- Purcell, William J., Hammond, Ind. Traffic signal. 1,736,326; Nov. 19.
- Purdie, Alexander, Wyandotte, Mich. Filet for vehicle wheels. 1,729,895; Oct. 1.
- Purdie, John C., Chicago, Ill. Pressure-reducing means. 1,733,315; Oct. 29.
- Purdy, Benjamin H., Douglass, assignor of three-fourths to C. McGreggor and C. A. Watson, Winfield, Kans. Pipe wrench. 1,701,120; Feb. 5.
- Purdy, Benjamin H., Douglas, assignor of three-fourths to C. McGreggor and C. A. Watson, Winfield, Kans. Adjustable wrench. 1,720,650; July 9.
- Purdy, Calvin M., Frederickstown, Ohio. Hen's nest. 1,728,700; Sept. 17.
- Purdy, Frederick, Chicago, and F. Bain, La Grange, Ill., assignors to Packard Motor Car Company, Detroit, Mich. Carburetor. 1,712,460; May 7.
- Purdy, Frederick L., Columbus, Ohio. Frame for buildings. 1,733,169; Oct. 29.
- Purdy, Lewis J., assignor, by mesne assignments, to Franklin Development Corporation, Syracuse, N. Y. Attaching fins to cylinders. 1,735,213; Nov. 12.
- Pure Oil Company, The. (See Carr, R. H., and Watson, assignors.)
- Pure Oil Company, The. (See Lawrence, Rolland J., assignor.)
- Pure Oil Company, The. (See Petersen, Carl A., assignor.)
- Purinton, Ellison S., assignor to J. H. Hammond, Gloucester, Mass. Electric-wave filter. 1,703,171; Feb. 26.
- Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Tool for applying tags to articles. 1,711,062; Apr. 30.
- Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Process and apparatus for assembling articles for treatment. 1,711,250; Apr. 30.
- Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Button. 1,717,406; June 18.
- Puritan Manufacturing Company. (See Poole, Jesse V., assignor.)
- Purity Bakeries Service Corporation. (See Marsh, Henry, assignor.)
- Purity Bakeries Service Corporation. (See Molan, Michael L., assignor.)
- Purity Cup Corporation. (See Batdrof, Charles S., assignor.)
- Purnis, Theodore S., assignor to The K. O. Lee & Son Company, Aberdeen, S. Dak. Liner for valve seats. 1,709,807; Apr. 16.
- Puro Sanitary Drinking Fountain Company. (See Bicknell, Frank A., assignor.)
- Purox Company. (See Coberly, Clarence J., assignor.)
- Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Belt-lacing machine. 1,710,894; Apr. 30.
- Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Belt-lacing device. 1,711,652; May 7.
- Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Machine for inserting belt lacings. 1,740,959; Dec. 24.
- Purpura, Angelo, Lawrence, Mass. Shoe insole. 1,700,048; Jan. 22.
- Pursel, Harold M., assignor to Sharrock and Pursel, Casper, Wyo. Dirt-handling machine. 1,735,412; Nov. 12.
- Purvis, Harold, assignor to Curtis Companies, Inc., Clinton, Iowa. Window-frame construction. 1,738,203; Dec. 3.
- Puscas, Harry, Davenport, Iowa. Combination passenger and truck body for automobiles. 1,715,075; May 28.
- Puskás, Gyula, Woodridge, Manitoba, Canada. Station indicator. 1,735,791; Nov. 12.
- Pusvaskis, Joseph, Chester, Pa. Harness stop mechanism for looms. 1,702,980; Feb. 19.
- Puterbaugh, Jack W., Cincinnati, Ohio. Clamp. 1,700,334; Jan. 29.
- Putman, Alden L., assignor to Whitehead & Kales Company, Detroit, Mich. Making vehicle wheels. 1,741,478; Dec. 31.
- Putman, Henry V., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Split rotor construction. 1,731,350; Oct. 15.
- Putman, P. E. (See Oliphant, Henry G., assignor.)
- Putnam, Alden L., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Pneumatic-treaded vehicle wheel. 1,714,622; May 28.
- Putnam, Corridon H. (See Albertsen, Martin C., assignor.)
- Putnam, Edwin W. (See Baker, Charles E., assignor.)
- Putnam, Herbert N., Lakewood, Ohio. Wall conduit. 1,718,252; June 25.
- Putnam, Herbert N., Lakewood, Ohio. Wall conduit. 1,718,253; June 25.
- Putnam, Herbert N., Lakewood, Ohio. Wall conduit. 1,718,254; June 25.
- Putnam, James K., Tulsa, Okla., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Supporting means for well tubing. 1,727,080; Sept. 3.
- Putney, Charles L., Philadelphia, assignor to B. F. Argile, Ardley, Pa. Automatic clutch-control mechanism. 1,740,265; Dec. 17.
- Putsch, August, Wanne, Germany, assignor to The Koppers Company, Pittsburgh, Pa. Coke oven. 1,705,029; Mar. 12.
- Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-finishing machine. 1,711,473; Apr. 30.
- Putt, Harlie O. (See Bucklen, H. E., and Putt.)
- Putt, Harlie O., assignor to Herbert B. Bucklen Corporation, Elkhart, Ind. Relay. 1,701,634; Feb. 12.
- Puttemans, Hubert A., and G. V. L. Perpète, Brussels, Belgium. Adding machine. 1,707,094; Mar. 26.
- Putt-well Golf Corporation. (See Lasting, Hyman B., assignor.)
- Puzan, Aleksander, Waterbury, Conn. Boat-propelling mechanism. 1,723,207; Aug. 6.
- Pye, David W., Brooklyn, N. Y. Laying car floors and aisle strips. 1,698,734; Jan. 15.
- Pye, David W., et al., trustees. (See Ducas, Charles, assignor.)
- Pye, David W., Brooklyn, N. Y. Vehicle-floor construction. 1,736,584; Nov. 19.
- Pye, Harold C., Oak Park, assignor to Automatic Electric Inc., Chicago, Ill. Telephone transmitter. 1,708,956; Apr. 16.
- Pyle, Byran B. and H. R. Compton, Seminole, Okla. Wrench. 1,702,547; Feb. 19.
- Pyle, Elmer B., assignor to The Addressit Manufacturing Corporation, New York, N. Y. Addressing device. 1,707,095; Mar. 26.
- Pyle-National Company, The. (See Amos, John A., assignor.)
- Pyle-National Company, The. (See Duke, Charles W., assignor.)
- Pyle-National Company, The. (See Peters, Irving A., assignor.)
- Pyle-National Company, The. (See Wulle, William A., assignor.)
- Pym, Arthur F., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-inserting machine. 1,702,364; Feb. 19.
- Pym, Arthur F., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon lasts. 1,723,301; Aug. 6.
- Pym, Arthur F., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,729,682; Oct. 1.
- Pym, Arthur F., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,729,683; Oct. 1.
- Pym, Arthur F., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole-positioning means. 1,736,276; Nov. 19.
- Pym, Charles F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over mechanism. 1,699,673; Jan. 22.
- Pyramid Beverages, Incorporated. (See Brown, Otis K., assignor.)
- Pyratone Products Corporation. (See Barrett, Harold G., assignor.)
- Pyrene-Minimax Corporation. (See Burmeister, Hans, assignor.)
- Pyrene-Minimax Corporation. (See Reddemann, Bernhard, assignor.)
- Pyrene-Minimax Corporation. (See Schmidt, Karl, assignor.)
- Pyrene-Minimax Corporation. (See Schnabel, Rudolf, assignor.)
- Pyridium Corporation, The. (See Ostromisliensky, Iwan, assignor.)



- Pyro-Pack Products Co. (See Chiles, Howard M., assignor.)
- Pyzel, Daniel, Oakland, assignor to Simplex Refining Company, San Francisco, Calif. Utilizing carbonaceous material. 1,699,989; Jan. 22.
- Q. & C. Company. (See Laughlin, E. A., and Packer, assignors.)
- Q & C Company. (See Packer, Eben R., assignor.)
- Q & C Company. (See Shenton, Godwin, assignor.)
- Q & C Company. (See Zimmerman, Emil C., assignor.)
- Quackenbush, Cleveland H., South Euclid, Ohio. Windshield cleaner. 1,718,760; June 25.
- Quackenbush, Edward W., Rockford, Ill. Clasp. 1,722,234; July 23.
- Quade, Henry W., Kewaskum, Wis. Bottle holder for mixers. 1,723,658; Aug. 6.
- Quain, John R., London, England. Electrode holder for arc lamps. 1,703,595; Feb. 26.
- Quaker City Chocolate & Confectionery Company. (See Roskam, Lester G., assignor.)
- Quaker City Iron Works. (See Jensen, James A., assignor.)
- Quaker Hosiery Company. (See Goetsch, George W., assignor.)
- Quaker Oats Company, The. (See Fawkes, Charles E., assignor.)
- Quaker Oats Company. (See Hagmann, Ulrich, assignor.)
- Quaker Oats Company. (See Miner, C. S., and Brownlee, assignors.)
- Quaker Oats Company, The. (See Nash, C. A., Trickey, and Miner, assignors.)
- Quaker Oats Company, The. (See Trickey, John P., assignor.)
- Quaker Oats Company, The. (See Trickey, J. P., and Miner, assignors.)
- Quaker Silver Company. (See Jennings, James W., assignor.)
- Quale, Carl C. (See Nicoll, Homer K., assignor.)
- Quality Aluminum Casting Co. (See Pankratz, Leon A. and A. C., assignors.)
- Quality Hardware & Machine Co. (See Parker, Lars J., assignor.)
- Quality Park Envelope Company. (See Olm, Oscar J., assignor.)
- Qualls, John W. (See Truitt, R. G., Tate, and Qualls.)
- Qualman, George J., Toledo, Ohio. Fishing reel. 1,738,204; Dec. 3.
- Qualmann, Paul H., Milwaukee, Wis. Bird-cage accessory. 1,718,432; June 25.
- Quandt, Fred, jr., assignor of one-half to W. Kuhrt, Fort Morgan, Colo. Air pump. 1,697,734; Jan. 1.
- Quarles, Donald A., Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Loading system. 1,711,653; May 7.
- Quarnstrom, Oscar A., Hominy, Okla. Pipe or rod clamp. 1,718,072; June 18.
- Quartz, James, Newton, assignor to F. S. Webster Company, Boston, Mass. Carbon binder. 1,738,153; Dec. 3.
- Quartz, James, Newton, assignor to F. S. Webster Company, Boston, Mass. Carbon binder. 1,738,154; Dec. 3.
- Quass, Ralph L., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,722,351; July 30.
- Quast, Otto K., Spokane, Wash. Airship. 1,701,116; Feb. 5.
- Quedens, Peter G., Blue Ash, Ohio, assignor to The Cincinnati Lathe and Tool Company. Taper attachment. 1,698,319; Jan. 8.
- Queen Anne Candy Company. (See Weiss, Max, assignor.)
- Queen Automatic Phonograph Co. (See Bauer, W. J., Wierth, and Meadoff, assignors.)
- Queen Automatic Phonograph Co. (See Wierth, Frederick O., assignor.)
- Queen, Frank J., et al., trustees. (See Rightenour, Asa L., assignor.)
- Queen, Walter K., Needham Heights, Mass. Packing ring. 1,716,977; June 11.
- Quency, Frank E., Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Relay. 1,726,164; Aug. 27.
- Quehl, Richard G., Minneapolis, Minn. Grain separator. 1,708,325; Apr. 9.
- Queisser, Paul, Berlin-Friedenau, assignor to Gebrüder Siemens & Co., Berlin-Lichtenberg, Germany. Alternating-current arc lamp with inclosed arc. 1,697,021; Jan. 1.
- Quelch, George C., Oakmont, Pa., assignor to International Oxygen Company, Newark, N. J. Tip for cutting torches. 1,731,265; Oct. 15.
- Queneau, Augustin L. J., New York, N. Y. Producing zinc. 1,718,378; June 25.
- Quercia, Janvier, Paris, France. Pocket or pyrophoric lighter. 1,702,947; Feb. 19.
- Quern, John, Brooklyn, N. Y. Electric hot-air furnace. 1,709,808; Apr. 16.
- Quertinnont, Jules J., Point Marion, Pa. Glass furnace. 1,715,568; June 4.
- Quick Action Ignition Company. (See Oglesby, Richard A., assignor.)
- Quick, Charles F., and G. W. Tamsitt, Dallas, Tex. Elevator relay. 1,697,883; Jan. 8.
- Quick, Claude E., Glendale, assignor to The Southern California Supply Co., Inc., Los Angeles, Calif. Dough deflector. 1,727,672; Sept. 10.
- Quick, John B., Wasco, Calif. Signaling system. 1,698,966; Jan. 15.
- Quickin Piston Company. (See Godstre, Percival F., assignor.)
- Quigley, Daniel F., Bangor, Me. Fire-alarm system. 1,705,227; Mar. 12.
- Quigley, John B., St. Louis, Mo. Flange coupling and radial bail. 1,702,747; Feb. 19.
- Quigley, Joseph F., Oklahoma City, Okla. Clothesline tightener. 1,713,447; May 14.
- Quillhot, James H. (See Hall, A. B., and Quillhot.)
- Quillen, William B., Cottonwood, Calif. Grader. 1,734,400; Nov. 5.
- Quin, Frank S., Clarkson, Ontario, Canada. Artificial minnow. 1,739,258; Dec. 10.
- Quinby, Edwin J. (See Van Dyck, A. F., and Quinby.)
- Quinby, Edwin J. (See Van Dyck, A. F., Quinby, and Pasternak.)
- Quincy Compressor Co. (See Pfeifer, George F., assignor.)
- Quincy Elevator Gate Company. (See Zoller, A. E., and Fulghum, assignors.)
- Quincy Stove Manufacturing Company, The. (See Lange, Henry, assignor.)
- Quinlan, James R., Pleasant Ridge, and L. C. Evon, Detroit, Mich. Internal-combustion engine. 1,725,102; Aug. 20.
- Quinn, Charles H., San Francisco, Calif. Electrical control apparatus. 1,699,019; Jan. 15.
- Quinn, Charles H., San Francisco, Calif. Stack-draft control. 1,725,888; Aug. 27.
- Quinn, Edward J. (See George, J. R., and Quinn.)
- Quinn, Frank. (See Wild, L., and Quinn.)
- Quinn, Nelson J., Toledo, Ohio. Thermostatic valve. 1,705,498; Mar. 19.
- Quinn, Philip Y. (See Wiles, Hoyt C., assignor.)
- Quintiliani, Arturo. (See Pineschi, L., and Quintiliani.)
- Quist, Irving E., Warren, Minn. Cable guard. 1,738,447; Dec. 3.
- Quynn, John W., Parkersburg, W. Va. Golf club. 1,705,997; Mar. 19.
- R. C. Can Company. (See Rutkowski, Walter L., assignor.)
- R. C. Products Company, The. (See Evers, W. H., and Shimek, assignors.)
- R. E. H. Incorporated. (See Miller, Philip M., assignor.)
- R-K Manufacturing Company. (See Rouse, John H., assignor.)
- R. M. Company. (See Murray, Howard J., assignor.)
- R. M. Company. (See Murray, H. J., and Rugg, assignors.)
- R. & W. Hawthorn Leslie & Company Limited, et al. (See Armstrong, Robert B., assignor.)
- Raab, William F., New York, N. Y. Circuit closer for automobile signaling devices. 1,707,139; Mar. 26.
- Raab, William F., New York, N. Y. Circuit-closing device. 1,707,176; Mar. 26.
- Rabb, Michael, Newark, N. J. Coupling device. 1,737,481; Nov. 26.
- Rabbes, Henry H., assignor to R. B. Coates, Washington, D. C. Index. 1,731,108; Oct. 8.
- Rabbidge, William F., Ulverston, assignor to Vickers Limited, Westminster, England. Control of internal-combustion engines. 1,701,274; Feb. 5.
- Rabe, Paul, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Increasing the fastness to light of basic dyestuffs. 1,736,835; Nov. 26.
- Rabe, Paul, and Berthold Wenk, Leverkusen, and E. Hartmann, Wiesdorf, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Molybdenum phosphonate compounds. 1,731,081; Oct. 8.
- Rabazzana, Hector, assignor to A C Spark Plug Company, Flint, Mich. Braided cover for spark-plug cables. 1,697,822; Jan. 1.
- Rabazzana, Hector, assignor to A C Spark Plug Company, Flint, Mich. Terminal connector. 1,701,387; Feb. 5.
- Rabazzana, Hector, assignor to A C Spark Plug Company, Flint, Mich. Spark plug. 1,707,741; Apr. 2.
- Rabazzana, Hector, assignor to A C Spark Plug Company, Flint, Mich. Spark plug. 1,738,610; Dec. 10.
- Rabazzana, Hector, and D. W. Randolph, assignors to A C Spark Plug Company, Flint, Mich. Spark plug. 1,731,203; Oct. 8.
- Rabinowitz, Ben, et al. (See Brawner, George H., assignor.)
- Rabinowitz, Gedalia. (See Konikoff, H. R., and Rabinowitz.)
- Rabinowitz, Myer, et al. (See Brawner, George H., assignor.)
- Rabun, George D. (See Crago, P. H., and Rabun.)
- Rabun, George D., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Electrically-operated track switch. 1,721,133; July 16.
- Rabus, Wilhelm, Heidenheim-on-the-Brenz, Germany, assignor to American Voith Contact Company, Inc., New York, N. Y. Apparatus for feeding continuous working wood grinders and method thereof. 1,722,395; July 30.
- Race, Charles N., Caro, Mich. Colorimeter apparatus. 1,739,373; Dec. 10.
- Race, William S., Detroit, Mich. Louver cover. 1,704,210; Mar. 5.
- Rachlin, Max, Brooklyn, N. Y. Clothesline pulley. 1,725,369; Aug. 20.
- Rachlin, Max, Brooklyn, N. Y. Pipe-support casing. 1,732,483; Oct. 22.



- Racine Confectioners' Machinery Company. (See Harts-horn, Willis N., assignor.)
- Racine Dispenser Manufacturing Company. (See Hanson, Sigvort, assignor.)
- Rackley, G. B. (See Toney, Albert G., assignor.)
- Rackstraw, Albert V., assignor of twenty-five per cent to J. D. Davenport, Los Angeles, Calif. Folding table. 1,710,382; Apr. 23.
- Racosky, Andrew J., sr., Revloc, Pa. Merry-go-round. 1,709,917; Apr. 23.
- Racz, Emanuel M., et al. (See Hardenbergh, Clarence M., assignor.)
- Racz, Ernest, assignor to Burroughs Adding Machine Company, Detroit, Mich. Printing mechanism. 1,701,307; Feb. 5.
- Rademacher, Erich, Kahla, Germany. Device for the production of smoke and the like. 1,736,091; Nov. 19.
- Rader, Earl D., Mount Kisco, assignor to Dexter Folder Company, New York, N. Y. Folding machine. 1,709,282; Apr. 16.
- Rader, Frank K., Dallas, Tex. Machine for use in trimming shrubbery. 1,715,675; June 4.
- Rademacher, August, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Printing mechanism of cash registers. 1,702,171; Feb. 12.
- Radetsky, Morris S. (See London, Daniel D., assignor.)
- Radford, Douglas R. (See Lamb, C., and Radford.)
- Radford, Eric H., Los Angeles, Calif. Freezer. 1,717,407; June 18.
- Radford, George, Apopauug, R. I., assignor to Thos. Wilson & Co. Inc., New York, N. Y. Lace. Des. 78,480; May 7.
- Radiant Lighting Fixture Co. (See Bohl, Hugo E., assignor.)
- Radiant Specialty Co. (See Czapek, Stanley, assignor.)
- Radiant Steel Products Company. (See Gstalder, Paul A., assignor.)
- Radinse, Rudolph R., assignor to The Manufacturers Brush Company, Cleveland, Ohio. Rotary brush. 1,714,137; May 21.
- Radio Corporation of America. (See Albersheim, Walter J., assignor.)
- Radio Corporation of America. (See Andrews, Edward F., assignor.)
- Radio Corporation of America. (See Ashbridge, Noel, assignor.)
- Radio Corporation of America. (See Beverage, Harold H., assignor.)
- Radio Corporation of America. (See Bol, C., and Morel, assignor.)
- Radio Corporation of America. (See Bonanno, Joseph L., assignor.)
- Radio Corporation of America. (See Cady, Walter G., assignor.)
- Radio Corporation of America. (See Clark, George H., assignor.)
- Radio Corporation of America. (See Clough, Newsome H., assignor.)
- Radio Corporation of America. (See Davis, Cecil, assignor.)
- Radio Corporation of America. (See Davis, Wilfred J., assignor.)
- Radio Corporation of America. (See Donle, Harold P., assignor.)
- Radio Corporation of America. (See Esau, Abraham, assignor.)
- Radio Corporation of America. (See Finch, James L., assignor.)
- Radio Corporation of America. (See Franklin, Charles S., assignor.)
- Radio Corporation of America. (See Franklin, C. S., Picken, and Robb, assignors.)
- Radio Corporation of America. (See Gage, Edward G., assignor.)
- Radio Corporation of America et al. (See Gage, Edward G., assignor.)
- Radio Corporation of America. (See Giebe, E., and Scheibe, assignors.)
- Radio Corporation of America. (See Gill, E. W. B., assignor, and Donaldson.)
- Radio Corporation of America. (See Goldschmidt, R. B., and Brailard, assignors.)
- Radio Corporation of America. (See Goldsmith, Alfred N., assignor.)
- Radio Corporation of America. (See Goldsmith, A. N., and Van Dyck, assignors.)
- Radio Corporation of America. (See Graham, William A., assignor.)
- Radio Corporation of America. (See Groeneveld, Yme B. F. J., assignor.)
- Radio Corporation of America. (See Hansell, Clarence W., assignor.)
- Radio Corporation of America. (See Hinceline, Harris D., assignor.)
- Radio Corporation of America. (See Karolus, August, assignor.)
- Radio Corporation of America. (See Kummerer, Wilhelm, assignor.)
- Radio Corporation of America. (See Kunze, Walter, assignor.)
- Radio Corporation of America. (See Lacault, Robert E., assignor.)
- Radio Corporation of America. (See Linsell, Alfred A., assignor.)
- Radio Corporation of America. (See Loewe, Siegmund, assignor.)
- Radio Corporation of America. (See Mathieu, Gaston A., assignor.)
- Radio Corporation of America. (See Mayer, Rudolf, assignor.)
- Radio Corporation of America. (See Peterson, Harold O., assignor.)
- Radio Corporation of America. (See Prince, Charles E., assignor.)
- Radio Corporation of America. (See Banger, Richard H., assignor.)
- Radio Corporation of America. (See Round, Henry J., assignor.)
- Radio Corporation of America. (See Schnitzeler, P., and Karolus, assignors.)
- Radio Corporation of America. (See Simmons, John W., assignor.)
- Radio Corporation of America. (See Sonkin, David, assignor.)
- Radio Corporation of America. (See Sprague, Clarence A., assignor.)
- Radio Corporation of America. (See Thompson, Harry H., assignor.)
- Radio Corporation of America. (See Trump, Edward H., assignor.)
- Radio Corporation of America. (See Tuska, Clarence D., assignor.)
- Radio Corporation of America. (See Tuska, C. D., and Spencer, assignors.)
- Radio Corporation of America. (See Van Der Pol, Bal-  
thasar, assignor.)
- Radio Corporation of America. (See Van Dyck, A. F., and Quinby, assignors.)
- Radio Corporation of America. (See Van Dyck, A. F., Quinby, and Pasternak, assignors.)
- Radio Corporation of America. (See Van Gessel, Karel M., assignor.)
- Radio Corporation of America. (See Von Glowacki, Wladimir, assignor.)
- Radio Corporation of America. (See Weinberger, Julius, assignor.)
- Radio Corporation of America. (See Willans, Peter W., assignor.)
- Radio Corporation of America. (See Wright, George M., assignor.)
- Radio Corporation of America. (See Wright, G. M., and Hill, assignors.)
- Radio Corporation of America. (See Wright, G. M., and Vyvyan, assignors.)
- Radio Corporation of America. (See Wright, G. M., Smith, and Davis, assignors.)
- Radio Electric Clock Corporation. (See Wood, Russell M., assignor.)
- Radio Frequency Laboratories, Incorporated. (See Ballantine, Stuart, assignor.)
- Radio Frequency Laboratories, Incorporated. (See Ballantine, S., and Hull, assignors.)
- Radio Frequency Laboratories Incorporated. (See Hull, Lewis M., assignor.)
- Radio Inventions, Inc. (See Aull, W., jr., and Houck, assignors.)
- Radio Patents Corporation. (See Andrewes, Humfrey, assignor.)
- Radio Patents Corporation. (See Dubiller, William, assignor.)
- Radio Patents Corporation. (See Pfiffner, Emil, assignor.)
- Radio Patents Corporation. (See Schuierer, Johannes M., assignor.)
- Radio Patents Corporation. (See Van Deventer, Harry R., assignor.)
- Radio Patents Corporation. (See Wein, Samuel, assignor.)
- Radiore Company, The. (See Guilford, Edward H., assignor.)
- Radis, Harry N., Chicago, Ill. Necktie holder. 1,706,252; Mar. 19.
- Radium Spark Plug Corporation. (See Hubbard, Alfred M., assignor.)
- Radka, August G., Newton, Kans. Gripping jaws for trucks. 1,711,577; May 7.
- Radke, August H., South Bend, Ind. Automotive appliance. 1,703,780; Feb. 26.
- Radley, Guy R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electroresponsive switch. 1,706,042; Mar. 19.
- Radley, H. H., sr. (See Sherman, Harry E., assignor.)
- Radioff, Johannes, assignor to the firm Allgemeine Elek-  
tricitäts-Gesellschaft, Berlin, Germany. Engine cylin-  
der. 1,742,097; Dec. 31.
- Radosovic, Peter, New York, N. Y. Combination pin and  
tumbler lock. 1,719,309; July 2.
- Radosovic, Peter, New York, N. Y. Flat-pin lock. 1,721,747; July 23.
- Radtke, Albert, Erkenschwick, near Recklinghausen, Ger-  
many. Instrument for writing characters on advertising  
boards. 1,731,395; Oct. 15.
- Radtke, Bruno, Libertyville, assignor to Mills Novelty  
Company, Chicago, Ill. Assembling machine for mints  
or the like. 1,709,189; Apr. 16.
- Radvany, Charles, Bridgeport, Conn. Clothes-drying rack. 1,711,426; Apr. 30.
- Radzinsky, Harry. (See Lutz, Julius H., assignor.)
- Rae, Edward P., et al. (See Schenk, Herman, assignor.)
- Rae, G., & Co. (See Cornell, Charles J.)



- Raack, Max, Dessau-Ziebigk, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Producing derivatives of 2-hydroxynaphthalene-3-carboxylic acid amide. 1,733,468; Oct. 29.
- Raeder, Heinrich. (See Mieg, W., and Raeder.)
- Raffa, Antonio, Brooklyn, N. Y. Cooking utensil. 1,722,946; July 30.
- Raffaelli, Viola, New York, N. Y. Lamp. Des. 80,050; Dec. 3.
- Raffel, Samuel P., New York, N. Y. Dress, coat, and suit box and hanger. 1,722,111; July 23.
- Raffenbeul, Rudolf, Vorhalle, near Hagen, Germany. Shock absorber for vehicle couplings. 1,731,149; Oct. 8.
- Raffloer, Emil, Duisberg, Germany. Apparatus for coking solid fuel. 1,708,152; Apr. 9.
- Raffloer, Emil, Duisburg, Germany. Coking solid fuel. 1,723,807; Aug. 6.
- Ragan, Ralph, Atlanta, Ga. Valve mechanism for internal-combustion engines. 1,732,911; Oct. 22.
- Ragan, Stanley F. (See Adamaitis, Mathew I., assignor.)
- Ragazzo, Antonio. (See Guarneri, Giuseppe, assignor.)
- Ragland, Nathan B., Muskogee, Okla. Flow device for oil wells. 1,739,041; Dec. 10.
- Ragonnet, Eugene L., assignor to Air Reduction Company, Incorporated, New York, N. Y. Universal torch machine. 1,735,129; Nov. 12.
- Ragsdale, Earle J. W., Norristown, and G. A. Haederer, assignors to Budd Wheel Company, Philadelphia, Pa. Braking mechanism for steering wheels. 1,701,862; Feb. 12.
- Ragsdale, Nathan C., Savannah, Ga. Window screen for automobiles. 1,722,481; July 30.
- Rahe, Samuel E., Richmond Hill, N. Y. Making matches from sheet stock. 1,728,508; Sept. 17.
- Rahe, Samuel E., Springfield Garden, N. Y. Match book. 1,728,509; Sept. 17.
- Rahm, Frederick, assignor to Precision Syrup Pump Company, Louisville, Ky. Pump. 1,728,628; Sept. 17.
- Rahm, Frederick W., assignor, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Flash light. 1,703,749; Feb. 26.
- Rahr, Chester E., Brookline, Mass., and R. E. Drake, Jamaica, assignors, by mesne assignments, to Anaconda Sales Company, New York, N. Y. Roofing. 1,700,774; Feb. 5.
- Raible, Charles G., Lakewood, assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Chaplet. 1,712,280; May 7.
- Raiche, Ernest W., assignor to Raiche Manufacturing Company, Los Angeles, Calif. Refrigerating apparatus. 1,700,835; Jan. 29.
- Raiche Manufacturing Company. (See Raiche, Ernest W., assignor.)
- Raick, Julien, assignor to Union Miniere du Haut Katanga (Societe Congolaise a Responsabilite Limitee), Brussels, Belgium. Agitator. 1,729,052; Sept. 24.
- Raidt, Byron F., Shenandoah, Iowa. Visor light. 1,707,874; Apr. 2.
- Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
- Rail Joint Company, The. (See Schermerhorn, Edwards F., assignor.)
- Rail Joint Company, The. (See Thomson, McLeod, assignor.)
- Rail Welding and Bonding Company. (See Knott, Henderson W., assignor.)
- Railroad Accessories Corporation. (See Deems, Edward M., assignor.)
- Railroad Accessories Corporation. (See Deems, E. M., and Lavarack, assignors.)
- Railroad Supply Company, The. (See Molloy, James H., assignor.)
- Railsback, Charles S., Colorado Springs, Colo. Identifying appliance. 1,709,321; Apr. 16.
- Railway and Industrial Engineering Company. (See Kopitz, Carl G., assignor.)
- Railway Devices Company. (See Habenicht, F. K., and Pietzsch, assignors.)
- Railway Devices Company. (See Pietzsch, Frank H., assignor.)
- Railway Locomotor Company. (See Keil, Lewis E., assignor.)
- Railway Metal Products Company. (See Small, Arthur E., assignor.)
- Railway Track Work Company. (See Pitman, Charles W., assignor.)
- Railway Utility Company. (See Hartwig, William G., assignor.)
- Raimann, B., G. m. b. H. (See Raimann, Hugo, assignor.)
- Raimann, Hugo, assignor to B. Raimann G. m. b. H., Baden, Germany. Machine for swaging saw teeth. 1,716,241; June 4.
- Raimer, Philip, and E. A. Rolfs, Maple Heights, Ohio; said Rolfs assignor to said Raimer. Tractor attachment. 1,706,742; Mar. 26.
- Raimondi, Vito O., Chicago, Ill. Edible container. Des. 78,312; Apr. 16.
- Rainbow Light, Inc. (See Grandjean, René, assignor.)
- Rainbow Light, Inc. (See Young, Fred W., assignor.)
- Raine, Warren A., and R. C. Pollock, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Treatment of decolorizing clays. 1,739,734; Dec. 17.
- Raines, Edwin H., assignor of one-half to E. S. Muire, Urbana, Va. Flue stop. 1,732,858; Oct. 22.
- Rainey, Anna V., Clarksville, Tex. Wire adjuster for suspenders. 1,708,589; Apr. 9.
- Rainey, James C., Grove City, Pa. Switch. 1,719,999; July 9.
- Rainey, Paul M., assignor to Combination Selector Company, Montclair, N. J. Record-selecting system. Re-17,250; Apr. 2.
- Rainey, Paul M., assignor to Combination Selector Company, Montclair, N. J. Card-selecting mechanism. 1,704,259; Mar. 5.
- Rainsford, Thomas F., assignor of one-fourth to T. C. Whitehead, Detroit, Mich. Brake construction. 1,732,418; Oct. 22.
- Rainsford, Thomas F., and T. C. Whitehead, assignors to T. C. Whitehead, Detroit, Mich. Refrigerating apparatus. 1,715,386; June 4.
- Raj, Michael, Nanty Glo, Pa. Rat trap. 1,723,208; Aug. 6.
- Rajek, Dave P. (See Benedict, Austin A., assignor.)
- Rakel, Howard, Cincinnati, Ohio. Lens-edge-grinding machine. 1,713,622; May 21.
- Rakowitzky, Hirsch, Vienna, Austria, assignor to Westminster Securities Limited, London, England. Coin tester for automatic vending machines and the like. 1,730,291; Oct. 1.
- Rakula, Theodor. (See Herlach, F., and Rakula.)
- Ralco Manufacturing Company. (See Lofgren, John, assignor.)
- Raleigh, James F., River Forest, assignor to Pines Winter-Front Company, Chicago, Ill. Shutter apparatus for radiators. 1,699,020; Jan. 15.
- Raleigh, Walter P., Ames, Iowa, and C. B. Dickey, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Disinfecting seeds. 1,734,646; Nov. 5.
- Rall, Max. (See Maier, R., and Rall.)
- Ralston, D. O. (See True, George E., assignor.)
- Ralston, James M., and B. F. Davenport, Ranger, Tex. Awning for auto door windows. 1,723,707; Aug. 6.
- Ralston, Florence V., New York, N. Y. Applicator and cleaner. 1,715,387; June 4.
- Ralston, Florence V., New York, N. Y. Applicator and cleaner. 1,717,891; June 18.
- Ralston, William B., Fort Wayne, Ind. Carburetor. 1,698,856; Jan. 15.
- Ramage, Alexander S., Detroit, Mich., assignor, by mesne assignments, to Gyro Process Company. Refining mineral oils. 1,702,313; Feb. 19.
- Ramage, Edwin C., Jr., Charleston, W. Va. Sectional boiler header. 1,729,487; Sept. 24.
- Ramage, John H., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Vibration and sag-resistant filament. 1,720,000; July 9.
- Ramage, John H., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Treating composite wire. 1,726,679; Sept. 3.
- Ramage, John H., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Refractory metal and its manufacture. 1,733,752; Oct. 29.
- Ramage, John H., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Tungsten-tantalum alloy. 1,741,953; Dec. 31.
- Ramage, William H., Girard, Ohio, assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Hot top with integral brick lining. 1,721,088; July 16.
- Ramage, William H., Girard, Ohio, assignor to Valley Mould & Iron Corporation, Sharpsville, Pa. Ingot mold. 1,721,490; July 16.
- Ramapo Finishing Corporation. (See Suffern, S. Julien, assignor.)
- Rambaud, Augustin A. F., Apt. France. Manufacture of preserved fruits. 1,717,258; June 11.
- Rambo, Harold S., New York, N. Y. Paint mixer. 1,714,436; May 21.
- Ramesohl & Schmidt A.-G. (See Schmitz, Carl, assignor.)
- Ramey, Cornelius E., Los Angeles, Calif. Automatic emergency-brake release. 1,707,415; Apr. 2.
- Ramm, Felix, Pittsfield, Me. Adjustable shuttle check. 1,717,259; June 11.
- Ramp Buildings Corporation. (See d'Humy, Fernand E., assignor.)
- Ramp Buildings Corporation. (See d'Humy, F. E., and Weidner, assignors.)
- Ramsay, Erskine, Birmingham, Ala. Roller support for rotary dumps. 1,706,985; Mar. 26.
- Ramsburg, Charles J., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purification process. 1,727,559; Sept. 10.
- Ramsdell, Thomas S., Great Barrington, Mass. Automatic overload-control device. 1,714,105; May 21.
- Ramsdell, Thomas S., Great Barrington, Mass. Automatic lap doffer. 1,734,302; Nov. 5.
- Ramsden, Henry, Lithcliff, England. Lubricating means. 1,714,046; May 21.
- Ramsden, John T., Philadelphia, Pa., assignor to The Tabor Manufacturing Company. Turntable molding machine. 1,716,737; June 11.
- Ramsden, John T., Philadelphia, Pa., assignor to The Tabor Manufacturing Company. Molding machine. 1,717,119; June 11.
- Ramsden, John T., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding-machine clamp. 1,736,363; Nov. 19.
- Ramsden, John T., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Flask for multiple molding. 1,736,364; Nov. 19.



- Ramsden, John T., Philadelphia, Pa., assignor to The Tabor Manufacturing Company. Strike-off mechanism for molding machines. 1,736,365; Nov. 19.
- Ramsden, John T., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Shockless shake-out ball for molds. 1,736,366; Nov. 19.
- Ramsden, John T., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding machine. 1,741,116; Dec. 24.
- Ramsey, Clifford H., Glen Rock, N. J. Speed-changing unit. 1,728,279; Sept. 17.
- Ramsey, George. (See Valentine, K. L., and Ramsey.)
- Ramsey, George, Brooklyn, N. Y. Direct-vision light-meter view scope for cameras. 1,721,411; July 16.
- Ramsey, Henry W. (See Tzika, Ambrose, assignor.)
- Ramsey, John C., assignor to Ramsey Package Corporation, Suffolk, Va. Wood trimming or edging machine. 1,735,792; Nov. 12.
- Ramsey, John J., Wichita, Kans. Lantern. 1,705,877; Mar. 19.
- Ramsey, Joseph H., Albany, N. Y. Safety guard-rail support. 1,718,875; June 25.
- Ramsey, Joseph H., Albany, N. Y. Highway fence. 1,718,876; June 25.
- Ramsey, Joseph H., Albany, N. Y. Highway fence. 1,718,877; June 25.
- Ramsey Package Corporation. (See Ramsey, John C., assignor.)
- Ramsey, Ralph H., Ardmore, Okla. Well-drilling rig. 1,707,568; Apr. 2.
- Ramsey, Robert P., assignor to Clyde Iron Works, Duluth, Minn. Cableway-skidding machine. 1,698,170; Jan. 8.
- Ramsey, William G., E. S. Eichenlaub and J. M. Barnville, Willard, Ohio. Rodent trap. 1,722,857; July 30.
- Ramsey, William J., Red Wing, Minn. Window refrigerator box. 1,730,685; Oct. 8.
- Ramsey, Williams H., Iilon, N. Y., assignor to Remington Arms Company, Inc. Display stand. 1,704,514; Mar. 5.
- Ramslie, John, Burlingame, Calif. Pitting fruit. 1,706,322; Mar. 19.
- Rance, William, sr., Freeport, Ill. Detachable handle for grate shaker bars. 1,706,543; Mar. 26.
- Ranck, Zeiber W., assignor to Crystal Waxing Company, Middletown, Ohio. Paper-dispensing package. 1,739,560; Dec. 17.
- Rand, Benjamin G., North Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Card index. 1,726,857; Sept. 3.
- Rand, James H., jr., Buffalo, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Filing device. 1,712,168; May 7.
- Rand, James H., North Tonawanda, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index. 1,722,593; July 30.
- Rand, James H., North Falmouth, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index device. 1,740,118; Dec. 17.
- Randall, Charles E., Stapleton, assignor to Hilborn-Hamburger, Inc., New York, N. Y. Shield. 1,710,667; Apr. 23.
- Randall, Edward O., Baltimore, Md. Tag. 1,699,311; Jan. 15.
- Randall, Howard D., Cincinnati, Ohio. Frictional-contact window guide. 1,702,270; Feb. 19.
- Randall, James W. H., New York, N. Y., assignors to The Libby-Owens Sheet Glass Company, Toledo, Ohio. Laminated glass and producing the same. 1,727,937; Sept. 10.
- Randall, Karl C., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,699,752; Jan. 22.
- Randall, Karl C., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical apparatus. 1,735,179; Nov. 12.
- Randall, Karl C., Edgewood Park, and H. K. Ensingh, Murraysville, Pa., assignors to Westinghouse Electric & Manufacturing Company. Farm circuit interrupter. 1,700,853; Feb. 5.
- Randall, La Baume E., assignor of one-half to Associated Factories Corporation, Dallas, Tex. Method and apparatus for producing pictures having relief effects. 1,729,520; Sept. 24.
- Randall, Matthew, Chicago, Ill. Toy aeroplane. Des. 78,983; July 16.
- Randall, Meredith S. (See Woodall, H. J., and Randall.)
- Randall, Oliver B., Wheeler, Oreg. Wood-shredding machine. 1,736,622; Nov. 19.
- Randall, Virgil P., trustee. (See Lewis, James N., assignor.)
- Randall, Walter D. (See Kutter, Herman L., assignor.)
- Randall, Walter E., et al. (See Culbreath, David C., assignor.)
- Randall, Walter H. (See Weber, Frederick C.)
- Randall, William V., U. S. Army, Newburgh, N. Y. Closure for shaft bearings. 1,734,691; Nov. 5.
- Randazzo, Henry, et al. (See Gillespie, Robert J., assignor.)
- Randel, Ivar A., assignor to R. Brown, Chicago, Ill. Seat for equalizing bars. 1,727,560; Sept. 10.
- Randle, George N. (See Porter, Vernon C., assignor.)
- Randleman, Benjamin F., Huntington Park, Calif. Device for edging lawns. 1,714,817; May 28.
- Randles, George E., assignor to The Foote-Burt Company, Cleveland, Ohio. Drilling machine. 1,705,499; Mar. 19.
- Randles, John T. T., H. Willshaw, and H. Smith, Erdington, England, assignors to Dunlop Tire & Rubber Corporation, Buffalo, N. Y. Conveyor system. 1,735,443; Nov. 12.
- Randolph, Alfred, assignor to The Deming Company, Salem, Ohio. Pump. 1,734,779; Nov. 5.
- Randolph, Arthur W., Mankato, Minn. All-steel gravel box. 1,733,905; Oct. 29.
- Randolph, Donald W. (See Rabezzana, H., and Randolph.)
- Randolph, E. F., et al. (See Mace, Charles E., assignor.)
- Randolph, Fred F., Fiskdale, Mass. Automatic fire alarm. 1,719,672; July 2.
- Raney, Clemma R. (See Benjamin, B. R., and Raney.)
- Raney, Clemma R., Riverside, Ill., assignor to International Harvester Company. Windrow harvester. 1,734,401; Nov. 5.
- Raney, Clemma R., Riverside, and A. E. W. Johnson, assignors to International Harvester Company, Chicago, Ill. Adjusting means for tractor-drawn implements. 1,721,712; July 23.
- Raney, Clemma R., Riverside, and A. E. W. Johnson, assignors to International Harvester Company, Chicago, Ill. Power-take-off-driven harvester thrasher. 1,721,713; July 23.
- Raney, Estel C., Columbus, Ohio. Thermostatic switch. 1,719,851; July 9.
- Raney, Estel C., Columbus, Ohio. Oil filter. 1,728,305; Sept. 17.
- Raney, Estel C., assignor to The Automatic Reclosing Circuit Breaker Company, Columbus, Ohio. System of electrical distribution. 1,710,895; Apr. 30.
- Ranger, Arthur W., London, England. Sheet-delivery apparatus for use on printing machines. 1,728,444; Sept. 17.
- Ranger, Richard H., Brooklyn, N. Y., assignor to Radio Corporation of America. Radio receiving system. 1,712,280; May 7.
- Ranger, Richard H., Brooklyn, N. Y., assignor to Radio Corporation of America. Radioreceiver. 1,723,440; Aug. 6.
- Ranger, Richard H., Brooklyn, N. Y., assignor to Radio Corporation of America. Interference reducing means for radio-receiving apparatus. 1,738,392; Dec. 3.
- Ranger, Richard H., Brooklyn, N. Y., assignor to Radio Corporation of America. Comparing and selecting radio-signals. 1,740,833; Dec. 24.
- Ranger, Richard H., Newark, N. Y., assignor to Radio Corporation of America. Amplification and reproduction of electrical impulses. 1,717,624; June 18.
- Ranger, Richard H., Newark, N. J., assignor to Radio Corporation of America. Cross screen picture receiving system. 1,736,219; Nov. 19.
- Ranger, Richard H., Newark, N. J., assignor to Radio Corporation of America. Photo-amplifying system. 1,738,315; Dec. 3.
- Ranger, Richard H., Newark, N. J., assignor to Radio Corporation of America. Cross-screen picture-transmitting system. 1,740,834; Dec. 24.
- Rank, Henry W. (See Rank, John and H. W.)
- Rank, Homer L., and H. F. Freese, Canton, Ohio. Tubular-processing apparatus. 1,727,036; Sept. 3.
- Rank, John and H. W., Minneapolis, Minn. Traffic signal. 1,709,190; Apr. 16.
- Rank, John, and H. W., Minneapolis, Minn. Self-arighting signal post. 1,734,344; Nov. 5.
- Rankin Automatic Glass Feeder Company. (See Rankin, Carl H., assignor.)
- Rankin, Carl H., assignor to Rankin Automatic Glass Feeder Company, Limited, York, England. Method of and apparatus for charging molten glass into molds. 1,742,098; Dec. 31.
- Rankin, Wm. H., Company. (See Groth, Herman A., assignor.)
- Rankin, William H., Geneva, N. Y., assignor to F. A. Bartlett, Stamford, Conn. Apparatus for introducing substances into trees. 1,718,195; June 18.
- Rankin, William K., Schenectady, N. Y., assignor to General Electric Company. Circuit interrupter. 1,717,260; June 11.
- Rankin, William K., Scotia, N. Y., assignor to General Electric Company. Electric switch. 1,724,776; Aug. 13.
- Rankine, David, J. W. H. Ross, and T. C. Lennard, Glasgow, Scotland. Endless-belt conveyor and elevator. 1,702,314; Feb. 19.
- Ranney, Leo, New York, N. Y., assignor to Standard Oil Development Company. Sealing fissures in mine galleries. 1,700,952; Feb. 5.
- Ranney, Leo, New York, N. Y., assignor to Standard Oil Development Company. Pressure method of working oil sands. 1,722,679; July 30.
- Ranney, Willet B., assignor to Wm. Wrigley Jr. Company, Chicago, Ill. Mixing machine. 1,713,554; May 21.
- Ranney, William E., assignor to The Perfection Mortiser Company, Columbus, Ohio. Mortising machine. 1,698,068; Jan. 8.
- Ranney, William E., assignor to The Perfection Mortiser Company, Columbus, Ohio. Mortising machine. 1,698,069; Jan. 8.
- Ranning, Carl A., Seattle, Wash., assignor to Automatic Signal Company, Reno, Nev. Electric signal. 1,723,708; Aug. 6.
- Ranschoff, Nathan, Cincinnati, Ohio. Mixing machine. 1,703,543; Feb. 26.
- Ransohoff, Fred, New York, N. Y., assignor to The Fleischmann Company. Yeast production. 1,722,858; July 30.



- Ransom, John B., Troy, N. Y. Sewing-machine attachment. 1,720,292; July 9.
- Ransom, Lewis L., Jersey City, N. J. Method and system of heating. 1,698,561; Jan. 8.
- Ransome Concrete Machinery Company. (See Allen, George T., assignor.)
- Ransome Concrete Machinery Company. (See Bushnell, James E., assignor.)
- Ransome Concrete Machinery Company. (See Johnson, Andrew S., assignor.)
- Ransome Concrete Machinery Company. (See Lukachovic, Joseph C., assignor.)
- Ranson, Robert, St. Augustine, Fla., assignor of one-half to Ford Instrument Company, Inc., New York, N. Y. Drier. 1,703,635; Feb. 26.
- Rantsch, Edward J., Hollis, L. I., assignor to Metal Packaging Corporation of New York, New York, N. Y. Container. 1,727,938; Sept. 10.
- Ranzini, Romeo, S. Paulo, Brazil. Apparatus for wireless telephony and telegraphy. 1,718,255; June 25.
- Raoult, Paul, Liege, Belgium. Digger for beet and other roots planted in lines. 1,714,889; May 28.
- Rapellin, René, Los Angeles, Calif. Grease gun. 1,724,616; Aug. 13.
- Rapellin, René, Los Angeles, Calif. Grease gun. 1,724,617; Aug. 13.
- Raper, John B., assignor of one-fourth to V. Raper and one-fourth to J. W. Duncan, Tonkawa, Okla. Price indicator for liquid-dispensing pumps. 1,708,779; Apr. 9.
- Raper, Victor et al. (See Raper, John B., assignor.)
- Rapisardi, Alfio, Boston, Mass. Holder for electric conductors. 1,740,035; Dec. 17.
- Rapp, Arthur R., Evanston, Ill. Dispensing paper holder. 1,713,857; May 21.
- Rapp, Arthur R., Evanston, Ill. Rolled-paper package. 1,726,312; Aug. 27.
- Rapp, George W., Louisville, Ky. Signal. 1,721,604; July 23.
- Rapp, Philip H. (See Renwick, Frederick W., assignor.)
- Raprich, Gustave, West New York, N. J. Automatic recasting control device. 1,721,638; July 23.
- Raptis, Gust A., Calexico, Calif. Cultivator. 1,739,418; Dec. 10.
- Raquette, Joseph G., assignor to All-Steel-Equip Company, Aurora, Ill. Outfit box. 1,718,878; June 25.
- Rasch, Gustave C., Burlington, Wis. Fibrous fabric and making the same. 1,722,764; July 30.
- Rasch, Gustave C., assignor to Burlington Blanket Company, Burlington, Wis. Rug and making the same. 1,703,636; Feb. 26.
- Rasch, Royal H. (See Richter, G. A., Schur, and Rasch.)
- Rasch, Royal H. (See Schur, M. O., and Rasch.)
- Rascheksky, Rudolph. (See Reisz, August C., assignor.)
- Raschick, Charles T., St. Paul, Minn. Manifold sales book. 1,708,682; Apr. 9.
- Raschick, Charles T., St. Paul, Minn. Check holder and cutter. 1,717,937; June 18.
- Raschick, Charles T., St. Paul, Minn. Pad holder. 1,723,808; Aug. 6.
- Raschick, Charles T., St. Paul, Minn. Check holder and cutter. 1,731,792; Oct. 15.
- Rash, Albert Z., Hollywood, Calif. Mud-pump piston. 1,716,900; June 11.
- Rashevsky, Nicolas P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Optical signaling device. 1,709,809; Apr. 16.
- Rasierl-Klingenfabrik "Rivo" Hahn, Richter & Volkmann. (See Friedezky, Ernst, assignor.)
- Raskine, Anatol, Brussels, Belgium. Loom for weaving leather sheets. 1,730,946; Oct. 8.
- Rasler, Harrison M., San Francisco, Calif. Arm-signaling panel. 1,737,022; Nov. 26.
- Rasmussen, Andrew. (See Goodell, William S., assignor.)
- Rasmussen, Andrew, and W. S. Goodell, Racine, Wis. Barbecue-machine guarding device. 1,728,738; Sept. 17.
- Rasmussen, Andrew, and W. S. Goodell, Racine, Wis. Barbecue machine. 1,733,627; Oct. 29.
- Rasmussen, Carl K., Braunschweig, Germany. Spring mattress. 1,739,985; Dec. 17.
- Rasmussen, Charles E. (See Jandus, H. S., and Rasmussen.)
- Rasmussen, Charles M., Seattle, Wash. Tractor-track inclosure. 1,741,878; Dec. 31.
- Rasmussen, Chester A., Long Beach, and W. A. Trout, Los Angeles, Calif. Automatic seal-control blow-out preventer. 1,709,949; Apr. 23.
- Rasmussen, Chester A., and C. R. Butler, Long Beach, and W. A. Trout, Los Angeles, Calif. Packed casing head. 1,739,802; Dec. 17.
- Rasmussen, Christian H., Cleveland, assignor to The Euclid Electric & Manufacturing Company, Euclid, Ohio. Electric trolley hoist. 1,741,074; Dec. 24.
- Rasmussen, George, New York, N. Y. Folding cylinder for printing presses. 1,717,257; June 11.
- Rasmussen, George V., New York, assignor to Hunt's Modern Paper Products, Inc., New York, N. Y. Sheet of folded material. 1,698,823; Jan. 15.
- Rasmussen, Laurits T., assignor to L. H. Katelman, Council Bluffs, Iowa. Packing and mulching implement. 1,698,451; Jan. 8.
- Rasmussen, Rasmus, Audubon, Iowa. Harrow drawbar. 1,722,540; July 30.
- Rasmussen, Sverre, New York, N. Y. Aeroplane. 1,738,611; Dec. 10.
- Raso, Dante, assignor of one-third to A. Melucci and one-third to C. Pellegrino, Brooklyn, N. Y. Automatic gas igniter. 1,724,221; Aug. 13.
- Rasor, Joseph F., Brookville, Ohio. Railway crossing. 1,735,337; Nov. 12.
- Rasp, John, McKeesport, Pa. Multiple-rod bracket. 1,713,299; May 14.
- Rassers, Jacobus R. F. (See Pohlmann, J., and Rassers.)
- Rässler, Robert, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Headlight. 1,739,179; Dec. 10.
- Rassmann, F., Manufacturing Company. (See Rassmann, Hugo C., assignor.)
- Rassmann, Hugo C., Beaver Dam, assignor to F. Rassmann Manufacturing Company, Beaver Dam, Wis. Stanchion. 1,734,402; Nov. 5.
- Rastall, Charles A., Oakland, Calif. Strap-end connection. 1,708,326; Apr. 9.
- Raster, Walther, assignor to Justrite Manufacturing Company, Chicago, Ill. Lamp-attaching device for miners' caps. 1,739,916; Dec. 17.
- Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,707,769; Apr. 2.
- Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,727,115; Sept. 3.
- Rastetter, William C., Fort Wayne, Ind. Folding-chair construction. 1,729,488; Sept. 24.
- Rastetter, William C., Fort Wayne, Ind. Tray attachment for tables. 1,716,283; June 4.
- Ratcliff, Paris W. (See Wertman, O. L., and Ratcliff.)
- Ratcliffe, Myrtle B., Winston-Salem, N. C. Automatic pipe coupling. 1,731,320; Oct. 15.
- Räth, Curt. (See Binz, A., and Räth.)
- Rath, Curt, Berlin, Germany. Preparation of alpha-hydrazino-beta-nitro-pyridine. 1,733,695; Oct. 29.
- Rath, Felix L., assignor to Hamilton-Ross Factories Incorporated, Chicago, Ill. Lamp base. Des. 77,788; Feb. 19.
- Rath, Felix L., assignor to Hamilton-Ross Factories Incorporated, Chicago, Ill. Lamp base. Des. 79,886; Sept. 10.
- Rath, Julius, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyeing vegetable fibers. 1,724,108; Aug. 13.
- Rath, Julius, Frankfort-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Preparation for dyeing the vegetable fiber. 1,724,109; Aug. 13.
- Rath Packing Company, The. (See Brecunier, R. A., Sherrill, and Donnell, assignors.)
- Rath, Thomas S., Tweed, Ontario, Canada. Stove. 1,704,211; Mar. 5.
- Rath, William C., New York, N. Y. Reclaiming lubricating oil. 1,735,546; Nov. 12.
- Rathbone, Herbert. (See Rathbone, John H. and H.)
- Rathbone, John A., Detroit, Mich., assignor to The Rathbone Machine Company, Cleveland, Ohio. Molding machine. 1,697,022; Jan. 1.
- Rathbone, John H., and H. Stretford, England. Hand-propelled paddle boat. 1,741,879; Dec. 31.
- Rathbone Machine Company, The. (See Rathbone, John A., assignor.)
- Rathbone, Thomas C., Ridley Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,704,341; Mar. 5.
- Rathbun, Elmer J., Narragansett, R. I. Block and fall sheave. 1,700,074; Jan. 22.
- Rathbun, George J., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., and The Rathbun-Jones Engineering Company, Toledo, Ohio. Governor for internal-combustion engines. 1,730,013; Oct. 1.
- Rathbun, John P., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat exchanger. Re17,480; Nov. 5.
- Rathbun, John P., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat exchanger. 1,708,031; Apr. 9.
- Rathbun, John P., Moores, Pa., assignor to Westinghouse Electrical & Manufacturing Company. Heat exchanger. 1,730,242; Oct. 1.
- Rathbun-Jones Engineering Company, The. (See Rathbun, George J., assignor.)
- Rathbun, Louis C., Oelwein, Iowa. Sanitary drinking fount. 1,719,487; July 2.
- Rathburn, Renn A. (See Johnson, Freeman W., assignor.)
- Rathgeb, Joseph J., Jr., New York, N. Y. Boiler. 1,725,828; Aug. 27.
- Rathje, Hans, Buffalo, N. Y. Composition for removing boiler scale. 1,736,800; Nov. 26.
- Rathjen, Henry F., Peoria, Ill. Mason's jointer. 1,715,569; June 4.
- Rathmann, Paul, assignor to Elektrotechnische Fabrik Schmidt & Co., Gesellschaft m. b. H., Bodenbach, Czechoslovakia. Portable electric lamp. 1,726,453; Aug. 27.
- Rathner, Harry. (See Feinberg, A., and Rathner.)
- Rathsburg, Hans, Furth, Germany, assignor to Rheinisch-Westfälische Sprengstoff-Aktiengesellschaft, Cologne, Germany. Primer composition. Re17,540; Dec. 31.
- Ratigan, James P., Los Angeles, Calif. Adjustable beam hanger. 1,720,056; July 9.
- Ratican, James P., Los Angeles, Calif. Safety hook. 1,740,782; Dec. 24.
- Ratignier, Marius, Lyon, France. Apparatus for printing textile fabrics. 1,703,015; Feb. 19.



- Ratignier, Marius, Villeurbanne, Rhone, France. Continuously-operating machine for phosphating and washing fabrics. 1,726,858; Sept. 3.
- Ratliff, Jeremiah T. (See Ratliff, Orange S. and J. T.)
- Ratliff, Orange S. and J. T., Birmingham, Ala. Window shade. 1,726,411; Aug. 27.
- Ratliff, Stanley M. (See Schatz, H. W. and Ratliff.)
- Rattan Mfg. Co., The. (See Compton, George, assignor.)
- Ratterman, Louis G., St. Paul, Minn. Cover for refrigerating cabinets. 1,709,486; Apr. 16.
- Ratto, Charles. (See Lisher, S. G., and Ratto.)
- Ratz, Elmer G., Hamilton, Ontario, Canada, assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,734,229; Nov. 5.
- Rau Fastener Co. Inc. (See Reiter, Daniel I., assignor.)
- Rau, Henry V., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Radio tube holder. 1,704,515; Mar. 5.
- Rau, John W., assignor to Marshall Field & Company, Chicago, Ill. Textile fabric or similar article. Des. 79,566; Oct. 8.
- Rau, Lester C., Cincinnati, Ohio. Window display sign. Des. 79,119; July 30.
- Rau, Lester C., Cincinnati, Ohio. Display device. 1,741,880; Dec. 31.
- Rauch, John D., assignor to The Ohio Power Shovel Company, Lima, Ohio. Clutch mechanism. 1,717,892; June 18.
- Rauch, John D., assignor to The Ohio Power Shovel Company, Lima, Ohio. Power shovel. 1,733,753; Oct. 29.
- Rauch, Philip, Brooklyn, assignor to J. H. Faw, White Plains, N. Y. Brace wrench. 1,723,074; Aug. 6.
- Rauchbach-Goldsmith Co., The. (See Rauchbach, Joseph, assignor.)
- Rauchbach, Joseph, Newark, N. J., assignor to The Rauchbach-Goldsmith Co. Wardrobe trunk. 1,739,735; Dec. 17.
- Rauen, John B., and W. J. Sprong, assignors to United States Spring Company, Inc., Los Angeles, Calif. Multiple-stage spring. 1,709,487; Apr. 16.
- Rauen, Peter F., Omaha, Nebr. Milk-can-cover neck and lid. 1,723,523; Aug. 6.
- Rauh, Herbert S., New York, N. Y. Spat. 1,709,541; Apr. 16.
- Rauh, Herbert S., New York, N. Y. Closure for uniting edged bodies. 1,724,413; Aug. 13.
- Rauboff, John M., Tinley Park, Ill. Broom-winding machine. 1,727,042; Sept. 3.
- Rauko, Joseph, Milwaukee, Wis. Cold chisel. 1,719,449; July 2.
- Raulais, Alexis E. M., Toulouse, France. Agricultural machinery. 1,702,018; Feb. 12.
- Rauland, Einar N. River Forest, assignor to All-American Radio Corporation, Chicago, Ill. Transformer. 1,707,023; Mar. 26.
- Raule, Clifford T., Brookline, Pa. Hollow packing ring for pistons. 1,741,436; Dec. 31.
- Rausch, Albert, assignor to American Twist Drill and Tool Company, Detroit, Mich. Straightening device. 1,729,012; Sept. 24.
- Rauscher & Stocklin. (See Bertschmann, Jakob, assignor.)
- Rautenstrauch, Walter, Palisade, assignor to Metalastic Inc., Jersey City, N. J. Packing. 1,698,654; Jan. 8.
- Rautenstrauch, Walter, Palisade, assignor to Metalastic Inc., Jersey City, N. J. Acid resistant packing. 1,698,655; Jan. 8.
- Rauwald, Ferdinand, Essen, Germany. Sheet-metal piling. 1,716,087; June 4.
- Ravert, William I., assignor to A. W. Drake Manufacturing Company, Hazleton, Pa. Toy horse. Des. 77,623; Jan. 29.
- Ravert, William I., assignor to A. W. Drake Manufacturing Company, Hazleton, Pa. Jointed figure toy. 1,720,293; July 9.
- Ravert, William I., assignor to A. W. Drake Manufacturing Co., Hazleton, Pa. Self-acting iron support or tray for folding ironing boards. 1,722,859; July 30.
- Raviolo, John B., Highland Park, N. J. Clutch plate. 1,727,841; Sept. 10.
- Raylin, John B., Miami, Fla. Guide for automobile jacks. 1,699,406; Jan. 15.
- Raw, George, New Washington, England. Pneumatic separation table. 1,730,947; Oct. 8.
- Rawdin, Philip. (See Sellinger, M., and Rawdin.)
- Rawl, Harry M., et al. (See Endress, Lewis, assignor.)
- Rawles, Kate C., Fernley, Nev. Polishing composition. 1,733,389; Oct. 29.
- Rawley, Wayne, and O. A. Pluskey, assignors to Blaw Knox Company, Pittsburgh, Pa. Apparatus for removing surplus spelter from galvanized articles. 1,707,770; Apr. 2.
- Rawley, Wayne, assignor to Blaw-Knox Company, Pittsburgh, Pa. Pole support. 1,722,352; July 30.
- Rawling, Arthur, Ilkeshelf, York, England, assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,699,753; Jan. 22.
- Rawling, Francis G. (See Rue, J. D., Wells, and Rawling.)
- Rawling, Francis G., Madison, Wis. Pulping wood. 1,705,827; Mar. 19.
- Rawling, Francis G., Madison, Wis. Recovering chemicals. 1,728,252; Sept. 17.
- Rawlings, John J., assignor of one-half to The Rawlplug Company Limited, London, England. Bolt anchor. 1,708,896; Apr. 9.
- Rawlings, Roland G., Ontario, Calif. Speed wrench. 1,719,310; July 2.
- Rawlplug Company, The. (See Rawlings, John J., assignor.)
- Rawson, Edwin E., Montreal, Quebec Canada. Picker stick for looms. 1,701,245; Feb. 5.
- Rawson, Emanuel, Chicago, Ill., assignor to The Superheater Company, New York, N. Y. Automatic control valve. 1,708,738; Apr. 9.
- Rawson, Emanuel, Chicago, Ill., assignor to The Superheater Company, New York, N. Y. Automatic control valve. 1,719,081; July 2.
- Rawson, Frank L., Portland, Me. Printing machine. 1,710,551; Apr. 23.
- Ray, Albert D., Cleveland, Ohio. Pencil sharpener. Des. 78,313; Apr. 16.
- Ray, Arthur B., Flushing, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Process and composition for purifying liquids. 1,699,449; Jan. 15.
- Ray, Arthur B., Flushing, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Preparing absorptive carbon. 1,736,051; Nov. 19.
- Ray, Arthur J., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,699,754; Jan. 22.
- Ray, Arthur J., Cuba, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Elapsed-time and zone metering. 1,720,001; July 9.
- Ray, Arthur J., Cuba, and R. F. Stehlik, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,701,635; Feb. 12.
- Ray, Arthur J., Cuba, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,724,144; Aug. 13.
- Ray, C. A., et al. (See Ferguson, Alonzo W., assignor.)
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Harrow. 1,704,339; Mar. 5.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Plow. 1,704,340; Mar. 5.
- Ray, Charles T., assignor to B. F. Avery & Sons, Louisville, Ky. Tillage implement. 1,708,633; Apr. 9.
- Ray, Delbert J., Arkansas City, Kans. Multiplier appliance for cameras. 1,726,313; Aug. 27.
- Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thermostatic switch. 1,720,057; July 9.
- Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. 1,733,200; Oct. 29.
- Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heels. 1,733,201; Oct. 29.
- Ray, Everett M., Flint, Mich., Oil-cooling device. 1,732,986; Oct. 22.
- Ray, Fisk M., et al. (See Chesnutt, William M., assignor.)
- Ray, Frederick, Short Hills, assignor, by mesne assignments, to C. E. Eiser, Newark, N. J. Construction of incandescent lamps. 1,701,541; Feb. 12.
- Ray, George M., Newton Center, Mass. Divided last. 1,710,033; Apr. 23.
- Ray, George M., Newton Center, assignor to Bancroft Walker Company, South Boston, Mass. Sole-Attaching press. 1,725,103; Aug. 20.
- Ray, George W., Forty Fort, assignor to M. Yousoupovna, Kingston, Pa. Aeroplane. 1,707,177; Mar. 26.
- Ray, James L., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade fastening. 1,705,585; Mar. 19.
- Ray, James L., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine blade. 1,712,119; May 7.
- Ray, Loyd W., Wichita, Kans., assignor to The White Castle System, Inc. Stove hood. 1,732,315; Oct. 22.
- Ray, Loyd W., Wichita, Kans., assignor to The White Castle System, Inc. Wall structure. 1,738,842; Dec. 10.
- Ray, Samuel H., Chicago, Ill. Rim-locking device. 1,728,253; Sept. 17.
- Ray-Signs Corporation. (See Reeves, Beauford H., assignor.)
- Ray-Signs Corporation. (See Richtmyer, Floyd K., assignor.)
- Ray-Signs Corporation. (See Treleaven, Clifford L., assignor.)
- Ray, William H., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Connecting terminal for electrical conductors. 1,722,353; July 30.
- Ray, William H., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for removing insulation. 1,734,745; Nov. 5.
- Ray, William R., San Francisco, Calif. Automatic oil feeding and starting valve. 1,701,191; Feb. 5.
- Ray, William R., San Mateo, Calif., assignor to W. S. Ray Manufacturing Co. Duplex heater. 1,726,921; Sept. 3.
- Ray, W. S., Manufacturing Co. (See Ray, William R., assignor.)
- Raybestos Company, The. (See Hughes, Samuel, assignor.)
- Raybestos Company, The. (See Kelley, Edward F., assignor.)
- Raybestos Company. (See Kirschbraun, Lester, assignor.)
- Raybestos Company, The. (See Ross, Elmer R., assignor.)
- Raybestos Company, The. (See Stanley, Frederick C., assignor.)
- Rayburn, Alden G. (See Rayburn, Elwyn M. and A. G.)



- Rayburn, Alden G. (See Sumner, J. W., and Rayburn.)  
 Rayburn, Alden G., Sausalito, assignor to E. Winship, San Francisco, Calif. Drive axle. 1,736,836; Nov. 26.  
 Rayburn, Alden G., Sausalito, and J. W. Sumner, Los Angeles, assignors to E. Winship, San Francisco, Calif. Spring suspension for vehicles. 1,705,137; Mar. 12.  
 Rayburn, Clyde N., assignor to Reymor & Brothers, Inc., Pittsburgh, Pa. Box cover. Des. 79,098; July 30.  
 Rayburn, Eddy S., et al. (See Rayburn, Elwyn M. and A. G., assignors.)  
 Rayburn, Elwyn M. and A. G., assignors of eleven and one-half percent to said E. M. Rayburn, eleven and one-half percent to said A. G. Rayburn, eleven and one-half percent to E. S. Rayburn, Sausalito, fourteen and one-half percent to J. W. Sumner and fifty-one per cent to E. Winship, San Francisco, Calif. Power-transmission apparatus. 1,726,454; Aug. 27.  
 Rayfield, Charles L., Chicago, Ill., assignor to Rayfield Manufacturing Company. Oil-pump construction. 1,727,081; Sept. 3.  
 Rayfield, Charles L., assignor to Rayfield Manufacturing Co., Chicago, Ill. Float-controlled valve. 1,727,082; Sept. 3.  
 Rayfield, Frederick H., assignor of one-half to P. M. Potter, Atlanta, Ga. Refrigerating device. 1,728,804; Sept. 17.  
 Rayfield Manufacturing Company. (See Rayfield, Charles L., assignor.)  
 Raymond Brothers Impact Pulverizer Company, The. (See Crites, Joe, assignor.)  
 Raymond, Charles, et al. (See Cerfvol, Albert, assignor.)  
 Raymond Concrete Pile Company. (See Hunt, Francis H., assignor.)  
 Raymond Concrete Pile Company. (See Smith, Herman K., assignor.)  
 Raymond, Daniel J., Wrightstown, Wis. Rim-contracting tool. 1,712,169; May 7.  
 Raymond, Frederic A. (See Philbrick, F. B., and Raymond.)  
 Raymond, George G. (See Van De Mark, W. D., and Raymond.)  
 Raymond, George G., Greene, N. Y. Hand truck. 1,706,253; Mar. 19.  
 Raymond, George G., assignor to Lyon Iron Works, Greene, N. Y. Portable table platform. 1,736,172; Nov. 19.  
 Raymond, Gwynne, assignor to Black, Sivalls & Bryson Manufacturing Company, Kansas City, Mo. Tank construction. 1,738,483; Dec. 3.  
 Raymond, Henry, Pratt City, Ala. Valve lifter. 1,730,092; Oct. 1.  
 Raymond, Horace H., Berlin, assignor to The Stanley Works, New Britain, Conn. Hinge. Des. 79,910; Nov. 12.  
 Raymond, Horace H., Berlin, assignor to The Stanley Works, New Britain, Conn. Cabinet catch. Des. 79,983; Nov. 26.  
 Raymond, Horace H., Berlin, assignor to The Standard Safety Mfg. Co., Inc., New Haven, Conn. Safety device for foot-power punch presses and like machines. 1,710,383; Apr. 23.  
 Raymond, John D., Detroit, Mich. Solder flux. 1,709,542; Apr. 16.  
 Raymond, Joseph H., Wichita, Kans. Weather stripping. 1,701,214; Feb. 5.  
 Raymond, Lambert L., Minneapolis, Minn. Reflector-attaching device. 1,735,181; Nov. 12.  
 Raymond, Lambert L., assignor to Broderick-Son-Raymond Co., Minneapolis, Minn. Socket and reflector. 1,735,180; Nov. 12.  
 Raymond, Malcolm, Homer City, Pa. Adhesive-plaster-dispensing device. 1,731,266; Oct. 15.  
 Raymond, Mattice L., Sleepy Eye, Minn. Storm-window fastener. 1,725,419; Aug. 20.  
 Raymond, Morris, Brooklyn, N. Y. Water cooler. 1,713,395; May 14.  
 Raymond, Morris, Brooklyn, N. Y. Water cooler. 1,724,313; Aug. 13.  
 Raymond, Ralph L., Montreal, Quebec, assignor to Dominion Wood Heel Corporation, Limited, Montreal, Canada. Air jack for wood-heel-turning machines and the like. 1,740,934; Dec. 24.  
 Raymond, Ralph L., Tampa, Fla., assignor, by mesne assignments to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,717,893; June 18.  
 Raymond, Ward, assignor to Pennsylvania Pump and Compressor Company, Easton, Pa. Pilot valve for compressor regulators. 1,697,404; Jan. 1.  
 Rayner, Anne K., Piqua, Ohio. Disk cap for milk bottles. 1,730,292; Oct. 1.  
 Rayner, Charles H., St. Johns, Quebec, Canada. Composite waterproof sheet and making the same. 1,714,240; May 21.  
 Rayner, Charles H., St. Johns, Quebec, Canada. Producing interlining and a filler therefor. 1,726,680; Sept. 3.  
 Raynes, Harold J., and F. J. Denning, assignors to Illinois-Pacific Glass Corporation, San Francisco, Calif. Mold for forming glass vessels. 1,738,964; Dec. 10.  
 Raynes, Harry C., assignor to Atlantic Gypsum Products Company, Portsmouth, N. H. Wall board. 1,719,726; July 2.  
 Reynolds, John F., Minneapolis, Minn. Headlight reflector. 1,718,256; June 25.  
 Raynor, Louis L., New Rochelle, assignor, by mesne assignments, to The Hygienol Co., Inc., New York, N. Y. Device for sewing powder puffs. 1,736,461; Nov. 19.  
 Raynor, Robert F., St. Paul, Minn. Polishing composition. 1,708,801; Apr. 9.  
 Raytheon Inc. (See Bush, Vannevar, assignor.)  
 Raytheon Inc. (See Donle, Harold P., assignor.)  
 Raytheon Inc. (See Smith, Charles G., assignor.)  
 Raytheon Manufacturing Company. (See Fitch, Claude E., assignor.)  
 Rayton, Wilbur B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic lens and making the same. 1,715,784; June 4.  
 Rayton, Wilbur B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Goggles. 1,741,536; Dec. 31.  
 Rayzor, Samuel B., Houston, Tex. Combination vehicle spring and snubber. 1,739,917; Dec. 17.  
 REA Photophone, Inc. (See Eldred, Byron E., assignor.)  
 Rea, John G., Union City, N. J. Oil purifier and gas separator for internal-combustion engines. 1,718,800; June 25.  
 Rea, Richard, Long Beach, Calif. Horizontal and vertical rifle. 1,725,765; Aug. 27.  
 Rea, Thomas K., Charlotte, N. C. Resilient loom reed. 1,713,623; May 21.  
 Reach, A. J., Company. (See Armstrong, Frank J., assignor.)  
 Reach, A. J., Co. (See Reach, Milton B., assignor.)  
 Reach, Milton B., Chicopee, Mass., assignor to A. J. Reach Co., Philadelphia, Pa. Manufacturing baseball centers. Re17,200; Jan. 22.  
 Reach, Milton B., Springfield, assignor to A. G. Spalding & Bros., Chicopee, Mass. Inflatable air container for footballs, etc. 1,702,981; Feb. 19.  
 Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Golf club and assembling same. 1,733,822; Oct. 29.  
 Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Skate. 1,737,175; Nov. 26.  
 Read, Arthur, Portland, Ore. Automatic hose reel and protector. 1,740,748; Dec. 24.  
 Read, Augustus L. (See Lindstrom, Everard R., assignor.)  
 Read, Charles W., Indianapolis, Ind. Amusement structure. 1,709,877; Apr. 23.  
 Read, Ernest K., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control relay for circuit breakers. 1,731,351; Oct. 15.  
 Read, Frederick J., assignor of one-half to Calaveras Iron and Steel Company and one-half to S. H. Demarest, San Francisco, Calif. Metal. 1,714,729; May 28.  
 Read, John B. (See Coolbaugh, M. F., and Read.)  
 Read, John C., Rugby, England, assignor to General Electric Company. Mercury arc rectifier system. 1,734,915; Nov. 5.  
 Read, Robert E., White Plains, N. Y., assignor to International Paper Company. Wood-grinding machine. 1,705,097; Mar. 12.  
 Read, Robert E., White Plains, N. Y., assignor to International Paper Company. Paper-making machine. 1,734,879; Nov. 5.  
 Read, Thomas, Croydon, England. Printing of characters, figures, or numerals of continuous form by the use of stencils. 1,703,246; Feb. 26.  
 Read, William C. (See Becket, F. M., and Read.)  
 Reade, John C., and G. K. Fiskens, Waterloo, Ontario, Canada. Record-changing device for phonographs. 1,727,731; Sept. 10.  
 Readeker, William C., New York, N. Y. Ventilator for motion-picture machines. 1,699,078; Jan. 15.  
 Readeker, William C., New York, N. Y. Motion-picture machine. 1,717,063; June 11.  
 Reader, David. (See Kawatch, Frank J., assignor.)  
 Reader, Edward C., and V. P. Finn, Cleveland, Ohio. Drying apparatus. 1,709,154; Apr. 16.  
 Reading Hardware Corporation. (See Hornberger, John W., assignor.)  
 Reading, James J., assignor to Central Contracting & Engineering Co., Detroit, Mich. Sewer form or the like. 1,698,967; Jan. 15.  
 Reading, James J., assignor to Central Contracting & Engineering Co., Detroit, Mich. Sectional track for road vehicles. 1,704,149; Mar. 5.  
 Readle, Joseph J. (See Paine, H., and Readle.)  
 Readman, Hardie, Earlston, Scotland. Artificial minnow for fishing. 1,737,683; Dec. 3.  
 Readsboro Chair Company. (See Clark, Albert B., assignor.)  
 Ready-Bilt Store Equipment Company. (See Du Plessis, Milton P., assignor.)  
 Ready, William A., Brookline, Mass. Dial mechanism for radio apparatus. 1,713,146; May 14.  
 Reagan, Clifford W., Champaign, Ill. Metal feeder. 1,737,865; Dec. 3.  
 Reagan, Maurice E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of distribution. 1,706,705; Mar. 26.  
 Reagan, Maurice E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,729,455; Sept. 24.  
 Reale, Peter, Philadelphia, Pa. Dirigible headlight. 1,725,478; Aug. 20.  
 Ream, Angstadt B., Elizabethtown, Pa. Air-brake lever mechanism. 1,698,656; Jan. 8.  
 Ream, John, Sacramento, Calif. Dredge rake. 1,697,368; Jan. 1.



- Reams, George W., Kansas City, Mo. Hand tool. 1,705,205; Mar. 12.
- Reams, George W., Fairfield, Calif. Fire extinguisher. 1,708,553; Apr. 9.
- Reaney, James, Baltimore, Md. Load suspension and hoisting mechanism. 1,731,984; Oct. 15.
- Reaney, James, Baltimore, Md. Combined power hammer and shovel mechanism. 1,731,985; Oct. 15.
- Reaney Limited. (See Reaney, Russell J., assignor.)
- Reaney, Russell J., Ottawa, Ontario, assignor to Reaney Limited, Ottawa, Canada. Power-transmitting mechanism. 1,699,674; Jan. 22.
- Reaney, Russell J., Ottawa, Ontario, assignor to Reaney Limited, Ottawa, Canada. Valved nozzle for tire valves. 1,719,902; July 9.
- Reap, Edward A., Oilton, Okla. Telephone system. 1,703,172; Feb. 26.
- Reardon, Edwin M., Long Beach, assignor of one-half to B. H. McKinley, Los Angeles, Calif. Lock spigot. 1,722,009; July 23.
- Reardon, Fred A., New Haven, Conn. Window-curtain-operating device for automobiles. 1,697,087; Jan. 1.
- Reardon, Robert E., Columbia, Pa. Toy firearm. 1,730,625; Oct. 8.
- Reaser, Lewis, Reading, Pa. Damper frame. 1,721,089; July 16.
- Reaves, John S., Philadelphia, Pa. Counting and grouping machine. 1,737,023; Nov. 26.
- Reavis, Andrew B., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,710,712; Apr. 30.
- Rebel, Leopold M., Paris, France, assignor to Isabey-Paris Incorporated. Powder box. Des. 79,048; July 23.
- Rebel, Leopold M., Paris, France, assignor to Isabey-Paris Incorporated. Box for holding perfume bottles. Des. 79,203; Aug. 13.
- Rebel, Leopold M., Paris, France, assignor to Isabey-Paris, Inc., New York, N. Y. Bottle. Des. 79,760; Oct. 29.
- Rebel, Leopold M., Paris, France, assignor to Isabey-Paris, Inc., New York, N. Y. Box. Des. 80,051; Dec. 3.
- Rebenschied, Oscar H., Kansas City, Kans., and C. G. Mee, Los Angeles, Calif., said Mee assignor to said Rebenschied. Vision-protecting shield. 1,701,958; Feb. 12.
- Reber, Emile and J. Spieler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Monoazo dyestuffs. 1,731,150; Oct. 8.
- Reber, James B., assignor to Columbian Rope Company, Auburn, N. Y. Rope marker. 1,738,316; Dec. 3.
- Reber, James W. (See Richards, F. B., and Reber.)
- Rebikoff, Wassily, assignor to L. Davydoff, Paris, France. Planet-gear drive for electromechanical phonographs. 1,740,315; Dec. 17.
- Rebillet, Marcel J. A., Lyon, France. Method and apparatus for feeding liquid fuel to internal-combustion engines. 1,739,918; Dec. 17.
- Rebl, Frank, New York, N. Y. Boat construction. 1,723,577; Aug. 6.
- Rebman, Johan J., Dallas, Tex. Automobile driving mechanism. 1,729,896; Oct. 1.
- Reboul, Annie W. (See Wilson, Frank, sr., assignor.)
- Rebori, Attilio, Buenos Aires, Argentina. Interrupter for electric current. 1,734,692; Nov. 5.
- Rechcia, Leonard G., Seattle, Wash. Tire carrier. 1,731,204; Oct. 8.
- Rece, Frank S., Dallas, Tex. Crib hook. 1,711,158; Apr. 30.
- Rece, Frank S., Dallas, Tex. Knockdown crib. 1,738,317; Dec. 3.
- Rechen, Henry A., assignor of one-half to C. W. Burnheimer, Breckenridge, Colo. Sleeve valve for gasoline motors. 1,734,345; Nov. 5.
- Recht, William, New York, N. Y. Method of and apparatus for making bottle seals. 1,738,612; Dec. 10.
- Reck, Joseph A., assignor of one-half to J. P. Bland, Adrian, Mich. Nut-locking device. 1,706,820; Mar. 26.
- Reck, Maurus C., assignor to Sterling Range and Furnace Corporation, Rochester, N. Y. Water-heating apparatus. 1,733,628; Oct. 29.
- Reck, Maurus C., Rochester, N. Y., assignor to Sterling Range and Furnace Corporation. Cooking stove. 1,741,791; Dec. 31.
- Recke, William, Philadelphia, Pa. Electric jacquard. 1,726,586; Sept. 3.
- Recker, Adolph C., Oakville, assignor to Chase Companies Inc., Waterbury, Conn. Casing for electric-lamp sockets. 1,701,215; Feb. 5.
- Recker, Adolph C., Oakville, assignor to Chase Companies, Inc., Waterbury, Conn. Electric-lighting fixture. 1,712,007; May 7.
- Recker, Adolph C., Oakville, assignor to Chase Companies Inc., Waterbury, Conn. Connector for attaching electric cables or conduits to outlet boxes and the like. 1,725,883; Aug. 27.
- Reckler, Lawrence L., Westwood, Calif. Liquid-control means for hydraulic brakes. 1,708,153; Apr. 9.
- Reclamation Service Company. (See Chaney, James H., assignor.)
- Records, Elmer H., Spokane, Wash. Still. 1,710,070; Apr. 23.
- Rectanus, Sidney R., and K. Kronborg, assignors to The American Rolling Mill Company, Middletown, Ohio. Pickler. 1,729,684; Oct. 1.
- Rectobar Manufacturing Company. (See Rector, Adam A., assignor.)
- Rector, Adam A., San Francisco, Calif., assignor to Rectobar Manufacturing Company, Reno, Nev. Drawbar. 1,725,104; Aug. 20.
- Rector, Clarence B., Berkeley, Calif. Reclining chair. 1,738,115; Dec. 3.
- Rector, Enoch, New York, N. Y., assignor to Rector Gasifier Company, Waukesha, Wis. Automatic dry-gas carburetor. 1,726,455; Aug. 27.
- Rector Gasifier Company. (See Rector, Enoch, assignor.)
- Rector, Thomas M., assignor to Vitapack Corporation, New York, N. Y. Coffee preparation. 1,716,323; June 4.
- Rector, Thomas M., Rutherford, N. J., assignor to Vitapack Corporation, New York, N. Y. Apparatus for packing cashew nuts. 1,726,766; Sept. 3.
- Reddelien, Gustav, and W. Mueller, Leipzig, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. N-hydroxyethyl derivative of aminohydroxybenzenes. 1,712,716; May 14.
- Reddelien, Gustav, and W. Müller, Leipzig, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Obtaining condensation products of the anthraquinone series. 1,717,809; June 18.
- Reddemann, Bernhard, Berlin-Lichterfelde, Germany, assignor to Pyrene-Minimax Corporation, Fire-extinguisher standpipe. 1,706,821; Mar. 26.
- Reddemann, Bernhard, Berlin-Lichterfelde, Germany, assignor to Pyrene-Minimax Corporation. Sprinkler for distributing foam for fire-extinguishing purposes. 1,733,754; Oct. 29.
- Reddick, Pearl F., Pleasant Garden, N. C. Porch swing. 1,741,075; Dec. 24.
- Reddie, Lovell N., London, and B. E. G. Mittell, Iver, England, assignors to Victor Talking Machine Company, Camden, N. J. Talking-machine record. 1,719,339; July 2.
- Reddish, Warren T. (See Fischer, C. Jr., and Reddish.)
- Reddish, Warren T. (See Pierce, J. O., and Reddish.)
- Redfield, Casper L., Chicago, Ill. Measuring device for oil wells. 1,700,336; Jan. 29.
- Redfield, John H., assignor to F. P. Kellogg, Denver, Colo. Receiver sight. 1,711,578; May 7.
- Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air or gas compressing system. 1,716,533; June 11.
- Redfern, James W., Fall River, Mass. Presser for roving-frame flyers. 1,724,777; Aug. 13.
- Redgrave, Charles R. (See Swift, Edwin J., assignor.)
- Redhead, Jacob H., Cleveland, Ohio. Shock absorber. 1,697,610; Jan. 1.
- Redinger, Joseph M., Providence, R. I. Milling cutter. 1,702,132; Feb. 12.
- Redinger, Joseph M., Providence, R. I. Milling cutter. 1,715,097; May 28.
- Redinger, Joseph M., Providence, R. I. Cigar lighter. 1,739,259; Dec. 10.
- Redington, F. B., Company. (See Milmoe, Michael J., assignor.)
- Redirected Light Corporation. (See Whalen, Edward J., assignor.)
- Redler, Arnold, Sharpness Docks, England. Conveyer. 1,697,963; Jan. 8.
- Redlich, Berthold, Feldkirchen, near Munich, Germany. Preparing emulsions of liquid or dissolved substances. 1,729,185; Sept. 24.
- Redlinger, Lawrence M., Portland, Oreg. Vending device. 1,711,654; May 7.
- Redlon, Osgood M., Bath, Me. Closet bend. 1,733,823; Oct. 29.
- Redman, Frederick C., North Andover, and H. N. Colman, Lawrence, assignor to Davis & Furber Machine Company, North Andover, Mass. Strip-skiving appliance. 1,704,212; Mar. 5.
- Redman, Lawrence V., Caldwell, N. J., and V. H. Turkington, Chicago, Ill., assignors to Bakelite Corporation, New York, N. Y. Phenol-resin molding mixture. 1,716,665; June 11.
- Redman, Lawrence V., Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y. Molding mixture. 1,732,533; Oct. 22.
- Redman, Mark H. (See Vaughan, R. E., Redman, and Land.)
- Redman, William T., Brentwood, Md. Constructing hollow concrete walls. 1,712,678; May 14.
- Redmann, Robert G., assignor to The Sessions Foundry Company, Bristol, Conn. Cast-iron ingot mold. 1,730,686; Oct. 8.
- Redmann, Robert G., assignor to The Sessions Foundry Company, Bristol, Conn. Ingot mold. 1,739,769; Dec. 17.
- Redmond, Albert G., Indianapolis, Ind., assignor to J. R. Francis, Flint, Mich. Fuel-feeding system for motor vehicles. 1,702,669; Feb. 19.
- Redmond, Albert G., assignor to J. R. Francis, Flint, Mich. Carburetor. 1,717,625; June 18.
- Redmond, Albert G., assignor to Marvel Carburetor Company, Flint, Mich. Electric motor. 1,737,387; Nov. 26.
- Redmond, Albert G., assignor to Marvel Carburetor Company, Flint, Mich. Electric motor. 1,737,388; Nov. 26.
- Redmond, Albert G., assignor to Marvel Carburetor Company, Flint, Mich. Electric motor. 1,737,389; Nov. 26.
- Redmond, Harriet L., Needham, assignor to The William Carter Company, Needham Heights, Mass. Woman's shoulder-supported undergarment. 1,712,776 May 14.



- Redmond, Olney, Schenectady, N. Y. Dry-cleaning apparatus. 1,713,979; May 21.
- Redpath, Frank. (See Newell, J. Q., and Redpath.)
- Redpath, Riley L., Buffalo, and S. C. Bliss, Kenmore, assignors to American Radiator Company, New York, N. Y. Molding machine or apparatus. 1,704,342; Mar. 5.
- Redrup, Charles B., Leeds, England. Internal-combustion and other engine, pump, and the like. 1,732,659; Oct. 22.
- Redshaw, Joseph H. (See Koupal, W. G., and Redshaw.)
- Red Sun Products Co. (See Goldman, Sigmund L., assignor.)
- Reece Button Hole Machine Company, The. (See Carlson, Axel F., assignor.)
- Reece Button Hole Machine Company, The. (See Carlson, A. F., and Althens, assignors.)
- Reece Button Hole Machine Company, The. (See Connors, John W., assignor.)
- Reece Buttonhole Machine Company, The. (See Kiewicz, John, assignor.)
- Reece Button Hole Machine Company, The. (See Reece, Franklin A., assignor.)
- Reece Folding Machine Company. (See Dixon, Walter L., assignor.)
- Reece, Franklin A. (See Reece, John and F. A., assignors.)
- Reece, Franklin A. (See Reece, John and F. A., assignors.)
- Reece, Franklin A., Brookline, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole sewing machine. 1,726,922; Sept. 3.
- Reece, Franklin A., Brookline, assignor to The Reece Button Hole Machine Company, Boston, Mass. Driving and stopping mechanism. 1,730,014; Oct. 1.
- Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. 1,703,954; Mar. 5.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,717,466; June 18.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,718,073; June 18.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. One-way device. 1,718,074; June 18.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,718,578; June 25.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,718,579; June 25.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,718,580; June 25.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,720,236; July 9.
- Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,720,238; July 9.
- Reece, Joseph A., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Method and apparatus for producing laminated glass. 1,729,125; Sept. 24.
- Reece Shoe Machinery Company. (See Carlson, Axel F., assignor.)
- Reed, Clarence E., Wichita, Kans. Well-casing elevator. 1,737,893; Dec. 3.
- Reedy, Emmett M., assignor to Mueller Co., Decatur, Ill. Waste-valve device for bathtubs, etc. 1,737,804; Dec. 3.
- Reece Shoe Company. (See Carlson, Axel F., assignor.)
- Reece Shoe Machinery Company. (See Oliver, John R., assignor.)
- Reece Transmission Company. (See Reece, John and F. A., assignors.)
- Reece, Viola M., et al. (See Reece, V. M., and Armstrong, assignors.)
- Reece, Viola M., and B. Armstrong, assignors of one-half to T. L. Thomson, Detroit, Mich., and one-fourth to said V. M. Reece. Basket and supporting apron therefor. 1,736,131; Nov. 19.
- Reed, Anthony T., Pratt, Kans. Attachment for butchers' meat blocks. 1,718,075; June 18.
- Reed & Barton. (See Saarinen, Eliel, assignor.)
- Reed, Cameron A., Brooklyn, N. Y. Railway-traffic-controlling apparatus. 1,706,706; Mar. 26.
- Reed, Charles E., jr., Oak Park, Ill. Copying lathe. 1,702,796; Feb. 19.
- Reed, Charles E., and Company. (See Ryan, George F., assignor.)
- Reed, Daniel A., Dunkirk, N. Y. Automobile headlight. 1,720,437; July 9.
- Reed, Donald C., Dunedin, Fla. Composition for coating brick, tile, or cement. 1,735,793; Nov. 12.
- Reed, Earl A., Okemah, Okla. Rotary well-drilling apparatus. 1,719,340; July 2.
- Reed, Earl A., Tulsa, Okla. Hydraulic rotary drill stem. 1,714,818; May 28.
- Reed, Edward T. W. (See Taylor, C. M., and Reed.)
- Reed, Eloise. (See Wright, H. M., and Reed.)
- Reed, Forrest C., San Francisco, Calif., and F. A. Ernst, Somerset, Md. Heat interchanger. 1,730,293; Oct. 1.
- Reed, Forrest C., San Francisco, Calif., and F. A. Ernst, Somerset, Md. Relief valve. 1,730,294; Oct. 1.
- Reed, Frank B., assignor to Clearfield Machine Company, Clearfield, Pa. Grinding or mixing mill. 1,718,004; June 18.
- Reed, George B., Clearfield, Pa. Playing card. 1,704,017; Mar. 5.
- Reed, Harold J., Nashua, N. H., and C. L. Spafford, Sherbrooke, Quebec, Canada, assignors to Improved Paper Machinery Company, Nashua, N. H. Screen. 1,714,047; May 21.
- Reed, Harold V., assignor to The Borg & Beck Company, Chicago, Ill. Driven plate for friction clutches. 1,719,623; July 2.
- Reed, Harold V., assignor to The Borg & Beck Company, Chicago, Ill. Driven plate for friction clutches. 1,719,624; July 2.
- Reed, Harold V., assignor to The Borg & Beck Company, Chicago, Ill. Driven plate for friction clutches. 1,721,504; July 23.
- Reed, Harvey, Minneapolis, Minn. Locomotive starting valve. 1,724,145; Aug. 13.
- Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. 1,706,743; Mar. 26.
- Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. 1,707,569; Apr. 2.
- Reed, James, and F. Booth, assignors of one-third to Platt Brothers and Company Limited, Oldham, England. Scale mechanism for automatic feeders. 1,724,414; Aug. 13.
- Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shuttle mechanism for shoe-sewing machines. 1,724,964; Aug. 20.
- Reed, James H., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Presser-foot mechanism for sewing machines. 1,733,515; Oct. 29.
- Reed, John C., Steelton, Pa., assignor to Bethlehem Steel Company. System for load control. 1,727,131; Sept. 3.
- Reed, Leon H., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,701,542; Feb. 12.
- Reed Manufacturing Company. (See Petersen, Thorvald, assignor.)
- Reed, Merta L., Big Rapids, Mich. Notebook and copy holder. 1,720,607; July 9.
- Reed, Ned S., and H. G. Sanger, Detroit, Mich. Manifold for internal-combustion engines. 1,722,443; July 30.
- Reed, Robert, Dallas, Tex. Trimming tool. 1,697,088; Jan. 1.
- Reed Roller Bit Company. (See Bull, Clinton H. M., assignor.)
- Reed Roller Bit Company. (See Childs, William L., assignor.)
- Reed Roller Bit Company. (See Stokes, J. C., and Gignoux, assignors.)
- Reed, Royden E., Manchester, N. H. Lineameter. 1,699,207; Jan. 15.
- Reed, Vett S., Valley, Wash. Road scarifier. 1,724,363; Aug. 13.
- Reed, William B., assignor to H. B. Smith Company, Westfield, Mass. Hot-water boiler. 1,719,402; July 2.
- Reed, William R. (See Frampton, W. R., and Reed.)
- Reeder, Charles A., Cincinnati, Ohio. Safety bottle holder. 1,714,048; May 21.
- Reeder, Frank C., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Embossing machine. 1,706,744; Mar. 26.
- Reeder, Frank C., assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Float-controlled device. 1,707,926; Apr. 2.
- Reeder, Frank C., assignor by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 1,717,261; June 11.
- Reeder, Wesley W., Little Rock, Ark. Wheel loader. 1,736,367; Nov. 19.
- Reedy, James A., Woonsocket, R. I. Cotton-cleaning machine. 1,701,796; Feb. 12.
- Reel, Herbert W., assignor to United States Gypsum Company, Chicago, Ill. Floor construction. 1,699,477; Jan. 15.
- Reel, James H., Jackson Heights, and H. E. Cude, Floral Park, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Manufacture of rubber compositions and products obtained thereby. 1,735,547; Nov. 12.
- Reens, Max A., Amsterdam, Netherlands. Device for preventing and counteracting the warping of woodwork such as doors. 1,730,782; Oct. 8.
- Reeps, Charles O., Chicago, Ill., assignor to The Prosperity Company Inc., Syracuse, N. Y. Flatwork ironer. 1,722,823; July 30.
- Reeps, Charles O., Chicago, Ill., assignor, by mesne assignments, to National Laundry Machinery Company, Inc., Wilmington, Del. Ironing machine. 1,731,793; Oct. 15.
- Rees, David J., London, England. Grinding, crushing, pulverizing, mixing, and separating machine. 1,706,254; Mar. 19.
- Rees, Millard J., assignor of one-half to H. D. Graves, Lincoln, Kans. Electric water heater and steam generator. 1,729,685; Oct. 1.
- Rees, Otto J., Anaheim, Calif. Spreader and form holder for concrete walls. 1,708,634; Apr. 9.
- Reese, Charles W., Petroleum, W. Va. Gas-vent valve for oil-pumping equipment. 1,739,770; Dec. 17.



- Reese, Clarence A., assignor to The Fiber Specialty Company, Baltimore, Md. Collapsible box. 1,720,146; July 9.
- Reese, Eva M., Canton, Ohio. Hip and abdominal supporting girdle. 1,720,147; July 9.
- Reese, Frank, assignor to Reese Metal Weather Strip Co., Minneapolis, Minn. Corner contact member for weather strips. 1,733,202; Oct. 29.
- Reese, Frank A., assignor to Preacher's Perfection File Company, Meadville, Pa. File. 1,723,574; Sept. 17.
- Reese, Gomar, Kemmerer, Wyo., assignor to Link-Belt Company, Chicago, Ill. Air-operated feeder for shaker conveyers. 1,711,966; May 7.
- Reese, Lemuel V., assignor to Erie City Iron Works, Erie, Pa. Furnace. 1,709,950; Apr. 23.
- Reese, Lemuel V., assignor to Erie City Iron Works, Erie, Pa. Furnace. 1,730,243; Oct. 1.
- Reese Metal Weather Strip Co. (See Reese, Frank, assignor.)
- Reeson, Joseph N., Melbourne, and W. L. Moss, Camberwell, Victoria, Australia. Purifying coal or other gases. 1,708,590; Apr. 9.
- Reetz, Robert C. (See Gingras, Arthur, assignor.)
- Reeve, Helen. (See Reeve, Henry E., assignor.)
- Reeve, Henry E., Brooklyn, N. Y., assignor to H. Reeve, Pittsfield, Mass. Signaling mechanism. 1,697,140; Jan. 1.
- Reeve, Howard T., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron emitter. 1,719,128; July 2.
- Reeve, Robert G. (See Green, A. B., Reeve, and Berlin.)
- Reeves, Alfred N., New London, Conn. Picker stick check for looms. 1,736,327; Nov. 19.
- Reeves, Austin, H. (See Woodruff, W. W., Jenner, and Reeves.)
- Reeves, Beauford H., New Haven, Conn., assignor to Ray-Signs Corporation. Light-reflecting unit. 1,725,766; Aug. 27.
- Reeves, Carlos J., Duncan, Okla. Heaving plug. 1,724,415; Aug. 13.
- Reeves, George G., Shreveport, La. Well-derrick construction. 1,738,667; Dec. 10.
- Reeves, Grover R., Latah, Wash. Ironing table. 1,724,416; Aug. 13.
- Reeves, Gurney L., assignor to Reeves Pulley Company, Columbus, Ind. Driving belt. 1,731,827; Oct. 15.
- Reeves, Henry A. R., Christchurch, New Zealand. Shoe lace. 1,715,247; May 28.
- Reeves, Herbert M., assignor to The Ironton & Stove Manufacturing Co., Ironton, Ohio. Gas burner. 1,703,597; Feb. 26.
- Reeves, James C., National, Wash. Collar-attaching device. 1,724,417; Aug. 13.
- Reeves, Lew A. (See Noblitt, Q. G., Reeves, and Sparks.)
- Reeves Manufacturing Company, The. (See Curtis, Rowland J., assignor.)
- Reeves Manufacturing Company, The. (See Hunker, Martin L., assignor.)
- Reeves Manufacturing Company, The. (See Wendle, Virgil P., assignor.)
- Reeves, Oda A., Deventer, Miss. Animal holder. 1,713,624; May 21.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Scale-frame part. 1,706,963; Mar. 26.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale poise. 1,706,964; Mar. 26.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Indicating device. 1,706,965; Mar. 26.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,714,623; May 28.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,714,624; May 28.
- Reeves, Orwell C., and C. J. Zinke, assignors to Toledo Scale Company, Toledo, Ohio. Predetermined-weight scale. 1,706,966; Mar. 26.
- Reeves Pulley Company. (See Reeves, Gurney L., assignor.)
- Reeves, William A. (See Tucker, O. M., and Reeves.)
- Refinoil Manufacturing Corporation. (See Aycock, R. V., and Harris, assignors.)
- Refinoil Manufacturing Corp. (See Krieger, Franklin O., assignor.)
- Refrigeration Corporation of America. (See Mitchell, Chauncey L., assignor.)
- Regal Musical Instrument Co. (See Kordick, Frank, assignor.)
- Regal Paper Company. (See Benson, Earle H., assignor.)
- Regal Shoe Company. (See White, William H., assignor.)
- Regalmuto, Antonio, Bellport, N. Y. Safety gate for railways. 1,731,908; Oct. 15.
- Regan, Charles B. (See Lundell, F. C., and Regan.)
- Regan, Eugene A., Oakland, Calif. Hinge structure. Re17,292; May 14.
- Regan Forge & Engineering Company. (See Bricken, John, assignor.)
- Regan Forge & Engineering Company. (See Cant, David A., assignor.)
- Regan Forge and Engineering Company. (See Minor, Burt S., assignor.)
- Regan Forge and Engineering Company. (See Minor, B. S., and Regan, assignors.)
- Regan, George P., Oakland, assignor to Parker-Regan Corporation, San Francisco, Calif. Combined mop holder and wringer. 1,710,190; Apr. 23.
- Regan, James J. (See Minor, B. S., and Regan.)
- Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion for looms. 1,711,617; May 7.
- Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Stopping mechanism for knitting machines. 1,722,860; July 30.
- Regan Safety Devices Company, The. (See Bodde, Theodore, assignor.)
- Regan Safety Devices Company, The. (See Kendall, Allen B., assignor.)
- Regan Safety Devices Company, The. (See Rosenzweig, Fred M., assignor.)
- Regan Safety Devices Company, The. (See Shaver, Archibald G., assignor.)
- Regan Safety Devices Company, The. (See Shaver, A. G., and Rosenzweig, assignors.)
- Regar, Howard S., Norristown, Pa. Producing scallops in knitted fabrics. 1,719,082; July 2.
- Regelsperger, Georges. (See Lempereur, S., and Regelsperger.)
- Regents of the University of Michigan. (See Bailey, Benjamin F., assignor.)
- Reger, Scott N., Morgantown, W. Va. Automobile body. Des. 79,049; July 23.
- Regis, Eugene D. (See Heath, H. C. Regis, and Ruddick.)
- Rego-Heat Corporation. (See Kramer, Irving, assignor.)
- Reh, Max W., New York, N. Y. Candlestick. Des. 78,984; July 16.
- Rehder, Ernest H., Red Wing, Minn. Calendar. 1,716,600; June 11.
- Rehffuss, Martin O., assignor to F. W. Maurer & Sons Co., Philadelphia, Pa. Tape. 1,697,660; Jan. 1.
- Rehffuss, Martin O., assignor to F. W. Maurer & Sons Co., Philadelphia, Pa. Ball-fringe machine. 1,708,760; Apr. 9.
- Rehffuss, William C., assignor to The Baldwin Locomotive Works, Philadelphia Pa. Throttle valve for locomotives. 1,717,262; June 11.
- Rehm, Roland C., Evanston, Ill., assignor to Cook Laboratories, Inc. Syringe cartridge. 1,704,924; Mar. 12.
- Rehmer, Carl C. (See Resek, M., Rehmer, and Dahlstrom.)
- Rehrig, William J. (See Rehrig, W. J., and Hoppe, assignors.)
- Rehrig, William J., assignor to E. P. Fay, Los Angeles, Calif. Battery-separator slicing machine. 1,720,093; July 9.
- Rehrig, William J., and W. O. Hoppe, Los Angeles, Calif., assignors to said William J. Rehrig. Bottle case. 1,698,684; Jan. 8.
- Reiber, Albert H., assignor to Teletype Corporation, Chicago, Ill. Tape moistener. 1,737,805; Dec. 3.
- Reiber, Winfield S., Topeka, Kans. Milk bottle. 1,722,396; July 30.
- Reich, Edwin J., East Orange, N. J., assignor to National Carbon Company, Inc., New York, N. Y. Assembling of electric dry cells. 1,729,843; Oct. 1.
- Reich, Gustave T., Sausalito, Calif. Apparatus for treatment of waste organic mixtures and the like. 1,698,171; Jan. 8.
- Reich, Robert F., Tryon, N. C. Antidrift attachment for automobiles. 1,736,837; Nov. 26.
- Reich, Samuel, Brooklyn, N. Y. Paper bag. 1,714,277; May 21.
- Reichard, Wade H., assignor to General Railway Signal Company, Rochester, N. Y. Continuous inductive train-control system. 1,703,831; Feb. 26.
- Reichard, Wade H., assignor to General Railway Signal Company, Rochester, N. Y. Electrical interlocking system. 1,713,494; May 14.
- Reichardt, Peter, Baltimore, Md. Making darts or gores in articles of wearing apparel. 1,721,575; July 23.
- Reiche, Paul A., et al. (See Neumann, Herbert, assignor.)
- Reiche, Willi, Dresden, Germany. Connecting transformer of the shell type. 1,722,444; July 30.
- Reichel, Ferdinand, assignor to National Folding Box Company, New Haven, Conn. Display carton. 1,741,655; Dec. 31.
- Reichel, Hugo, Chicago, Ill. Tire remover. 1,699,335; Jan. 15.
- Reichel, Hugo, Chicago, Ill. Valve-separator machine. 1,701,863; Feb. 12.
- Reichenbach, Howard F., Wolcott, assignor to Chase Companies, Incorporated, Waterbury, Conn. Portable electric hand lamp. 1,697,405; Jan. 1.
- Reichenbecher, Georg. (See Grossweischede, J., and Reichenbecher.)
- Reicheneker, George G., Laura, Ill. Corn harvester. 1,707,875; Apr. 2.
- Reichert, Harold, Clayton, Wis. Window fastener. 1,700,907; Feb. 5.
- Reichert, John, Racine, Wis. Rack. 1,710,514; Apr. 23.
- Reichert, John G., Milwaukee, Wis. Silencer. 1,725,884; Aug. 27.
- Reichhelm, George L., New York, N. Y., assignor to The Gasifier Company, Elizabeth, N. J. Producing gas. 1,699,543; Jan. 22.
- Reichl, Karl. (See Graf, Carl, assignor.)
- Reichman, Lily, et al. (See Jacobson, Elmer C., assignor.)
- Reichmann, Frank J., Chicago, Ill. Coil and stand. 1,717,521; June 18.
- Reichner, Karl. (See Schwenk, E., Reichner, and Knob.)
- Reichold, Balthy. (See Schmitt, L., and Reichold.)
- Reichold, Ludwig, assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Toaster or similar article. Des. 78,839; June 25.



- Reichstein, Thadeus. (See Staudinger, H., and Reichstein.)
- Reid, Andrew S. (See Reid, Robert, assignor.)
- Reid, Andrew S. (See Reid, Robert and A. S., and Leonard.)
- Reid, Ebenezer E., Baltimore, Md., assignor to Hercules Powder Company, Wilmington, Del. Recovering terpene products from gasoline-terpene mixtures. 1,722,765; July 30.
- Reid, Elliott G. (See Carroll, T., and Reid.)
- Reid, Elliott G., Hampton, Va. Aircraft. 1,724,110; Aug. 13.
- Reid, Ernest A., assignor of one-half to Filma Oil Burners Limited, London, England. Liquid-fuel-supply system. 1,699,407; Jan. 15.
- Reid, Frederick M., assignor to Frauehauf Trailer Company, Detroit, Mich. Side-dump vehicle. 1,724,364; Aug. 13.
- Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Pintle hook. 1,739,986; Dec. 17.
- Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Tractor and semitrailer. 1,740,935; Dec. 24.
- Reid, George H., Listowel, Irish Free State. Psychomotor-testing apparatus. 1,729,227; Sept. 24.
- Reid, Hugh S., and A. H. Maude, assignors to Canadian Electro Products Company, Shawinigan Falls, Quebec, Canada. Manufacture of mercury salts. 1,721,188; July 16.
- Reid, James S. (See Sorensen, Theodore, assignor.)
- Reid, James S., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Closure. 1,720,347; July 9.
- Reid, James S., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Oil-cup structure. 1,720,348; July 9.
- Reid, James S., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Closure. 1,720,349; July 9.
- Reid, James S., assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Retaining means for removable closures. 1,720,350; July 9.
- Reid, James S., assignor, by mesne assignments, to Eaton Axle & Spring Company, Cleveland, Ohio. Closure. 1,736,173; Nov. 19.
- Reid, John, Boston, Mass. Safety razor. 1,707,493; Apr. 2.
- Reid, John, assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Grease-recovering device. 1,699,920; Jan. 22.
- Reid, John, assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Band-wheel power. 1,716,088; June 4.
- Reid, John, assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Clutch-pulley control. 1,716,738; June 11.
- Reid, Joseph, Gas Engine Company. (See Reid, John, assignor.)
- Reid, Joseph G., Chicago, Ill., assignor to O. F. Jordan Company, East Chicago, Ind. Rail-joint oiler. 1,701,506; Feb. 12.
- Reid, Joseph W., Memphis, Tenn. Separating lignite from sand and gravel. 1,723,372; Aug. 6.
- Reid, Marcellus, Cleveland, Ohio. Rim-fastening means for disk wheels. 1,706,043; Mar. 19.
- Reid, Marcellus, Cleveland, Ohio. Lathe. 1,706,544; Mar. 26.
- Reid, Murdoch & Company. (See Anderson, Louis S., assignor.)
- Reid Murdoch & Co. (See Cunliff, Harold S., assignor.)
- Reid, Robert, assignor of one-half to A. S. Reid, Beverly, Mass. Separating machine. 1,721,281; July 16.
- Reid, Robert and A. S., Beverly, and F. H. Leonard, Salem, assignors, by mesne assignments, to Pneumatic Scale Corporation, Ltd., Norfolk Downs, Mass. Coin assorting and counting machine. 1,718,801; June 25.
- Reid, Russell R. (See Buse, O. H., and Reid.)
- Reid, Willard. (See Shepherd, Charles B., assignor.)
- Reid, William D., Brooklyn, N. Y. Cleaning method and means. 1,705,998; Mar. 19.
- Reid, William L., Lima, Ohio. Locomotive-throttle mechanism. 1,738,668; Dec. 10.
- Reidenbaugh, John, Marion, Ohio. Vehicle jack. 1,738,205; Dec. 3.
- Reidhaar, Frank P., assignor to Hercules Products, Inc., Evansville, Ind. Fastening device. 1,737,730; Dec. 3.
- Reidinger, Maxwell L., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-picking machine. 1,700,572; Jan. 29.
- Reiffenstein, Manfred, Vienna, Austria. Water-power engine. 1,722,158; July 23.
- Reifsnnyder, James D., Weehawken, N. J., assignor, by mesne assignments, to Tulip Cup Corporation, New York, N. Y. Cup-dispensing machine. 1,703,637; Feb. 26.
- Reifsnnyder, James D., Brooklyn, assignor, by mesne assignments, to Tulip Cup Corporation, New York, N. Y. Impregnated individual paper drinking cup. 1,703,638; Feb. 26.
- Reifsnnyder, James D., Brooklyn, assignor to Tulip Cup Corporation, New York, N. Y. Apparatus for closing receptacles. 1,711,540; May 7.
- Reilly, Clarence J., assignor of one-third to E. B. Norman and one-third to E. S. Butler, New Orleans, La. Nipple for nursing bottles. 1,714,241; May 21.
- Reilly, Frank C., New York, N. Y. Pressure gauge. 1,700,449; Jan. 29.
- Reilly, Frank C., New York, N. Y. Compressor. 1,717,520; June 18.
- Reilly, Frank W., Chattanooga, Tenn. Tramway friction grip. 1,714,625; May 28.
- Reilly, Frederick B., Bronx, N. Y. Flask. Des. 78,531; May 14.
- Reilly, John L., Indianapolis, Ind. Valve grinder. 1,739,419; Dec. 10.
- Reilly, Joseph, Cork, Ireland, and E. W. Blair, Parkstone, England, assignors to Commercial Solvents Corporation, New York, N. Y. Separation of gases. 1,706,707; Mar. 26.
- Reilly, Peter C. (See Cunningham, Orin D., assignor.)
- Reilly, Peter C. (See Derby, I. H., assignor, and Davis.)
- Reilly, Peter C. (See Derby, Ira H., assignor.)
- Reilly, Peter C. (See Smith, Theodore W., assignor.)
- Reilly, Rodolphe R., Roslyn, assignor, by mesne assignments, to Sealed Containers Corporation, New York, N. Y. Diced-out blank for receptacles. Re17,503; Nov. 26.
- Reilly, Thomas, Fonda, Iowa. Folding undercarriage for aircraft. 1,716,736; June 11.
- Reimann, Otto, Berlin-Charlottenburg, assignor to Semer & Co. G. m. b. H., Berlin, Germany. Removing the sap from felled trunks and for impregnating coloring or dyeing the same. 1,727,251; Sept. 3.
- Reime, Georg, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,705,682; Mar. 19.
- Reimer, Annemarie, Albrechtscheide, near Gr. Engellau, Germany. Breeding mark for small animals. 1,737,201; Nov. 26.
- Reimer, George H., assignor to Patent Novelty Company, Fulton, Ill. Mail box. Des. 79,099; July 30.
- Reimer, George H., assignor to Patent Novelty Company, Fulton, Ill. Recipe cabinet. 1,729,126; Sept. 24.
- Reimer, George H., assignor to Patent Novelty Company, Fulton, Ill. Dustpan. 1,729,127; Sept. 24.
- Reimer, George H., assignor to Patent Novelty Company, Fulton, Ill. Imitation oxidized surface and process therefor. 1,729,128; Sept. 24.
- Reimers, Arthur G., Milwaukee, Wis., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-writing machine. 1,727,357; Sept. 10.
- Reimers, Theodor M., Chicago, Ill. Weed-destroying device. 1,732,279; Oct. 22.
- Reimold, Fred W., New York, N. Y. Traction plow. 1,720,608; July 9.
- Rein, Charles G. (See Rein, Walter L. and C. G.)
- Rein, Walter L. and C. G., Chicago, Ill. Polishing brush. 1,726,587; Sept. 3.
- Reina, Gian B., Legnano, Italy. Variable-speed transmission. 1,738,965; Dec. 10.
- Reinartz, John L., assignor to Cheney Brothers, South Manchester, Conn. Electric switch. 1,715,948; June 4.
- Reinartz, Theodore, Ethan, S. Dak. Brake-operating mechanism. 1,717,408; June 18.
- Reindel, Ira H., Detroit, Mich., assignor to Norge Corporation. Evaporation and hold-over tank. 1,704,102; Mar. 5.
- Reineke, Charles, assignor to The Reineke Motor Corporation, New York, N. Y. Internal-combustion engine. 1,703,752; Feb. 26.
- Reineke Motor Corporation, The. (See Reineke, Charles, assignor.)
- Reiner, Harry M., assignor to Reiner Products, Inc., New York, N. Y. Insect repellent. 1,732,028; Oct. 15.
- Reiner, Leo A. (See Franke, W. G., and Reiner.)
- Reiner Products, Inc. (See Reiner, Harry M., assignor.)
- Reinert, Robert, La Chaux-de-Fonds, Switzerland. Manufacturing of metallic diaphragms for talking machines, telephone and wireless apparatus, etc. 1,721,038; July 16.
- Reinfeld, Doris, Akron, Ohio. Baby band. 1,731,082; Oct. 8.
- Reinforced Paper Bottle Corporation. (See Bodor, Andrew, assignor.)
- Reinhard, Julianne F. (See Reinhard, Martin J., assignor.)
- Reinhard, Martin J., assignor of one-half to J. F. Reinhard, Chicago, Ill. Life-saving device. 1,709,488; Apr. 16.
- Reinhardt, Cerrol E., Montreal, Quebec, Canada. Metal casting and making the same. 1,699,120; Jan. 15.
- Reinhardt, Cerrol E., Montreal, Quebec, Canada. Forming metal castings of metals of different hardness and contractive properties. 1,731,060; Oct. 8.
- Reinhardt, Friedrich. (See Kleinow, W., Morgenroth, Reinhardt, and Bruer.)
- Reinhardt, George F., Kansas City, Kans. Animator for artificial flies for luring game fish. 1,734,346; Nov. 5.
- Reinhardt, Gustav A., Youngstown, Ohio. Mold for centrifugal castings. 1,722,354; July 30.
- Reinhardt, James H., East Orange, N. J. Cleaning apparatus. 1,701,864; Feb. 12.
- Reinhardt, Otto K. (See Zerner, M., and Reinhardt.)
- Reinhardt, Otto K., Jamaica, N. Y., assignor, by mesne assignments, to Bond Electric Corporation. Container-making machine. 1,715,383; June 4.
- Reinhardt, Richard M., assignor to Aktiebolaget Ifoverken, Bromolla, Sweden. Electric strain insulator. 1,702,315; Feb. 19.
- Reinhold, Richard, Leipzig, Germany. Electrical oven. 1,707,318; Apr. 2.



- Reinhold, William, assignor to Brown Folding Machine Co., Erie, Pa. Paper-registering device. 1,709,096; Apr. 16.
- Reinisch, Rudolf, Vienna, Austria. Book cover. 1,730,244; Oct. 1.
- Reinke, Armin A., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. Des. 78,985; July 16.
- Reinosky, Frank, Beaver, Alaska. Floor for baby cribs. 1,711,127; Apr. 30.
- Reintjes, George P., Kansas City, Mo. Locomotive-fire-box lining. 1,741,584; Dec. 31.
- Reis, Curt F., assignor to Western Ignition Co., Chicago, Ill. Rotor for magnetos. 1,726,042; Aug. 27.
- Reis, G., & Bro., Inc. (See Caprioli, Joseph J., assignor.)
- Reis, Louis C., Duluth, Minn. Water-cooled buckstay. 1,718,005; June 18.
- Reis, Louis C., Duluth, Minn. Snow screen. 1,738,843; Dec. 10.
- Reisler, Hermann, Hamburg, Germany. Hydraulic transmission gear. 1,727,903; Sept. 10.
- Reiser, Adel L., et al. (See Reiser, John E., assignor.)
- Reiser, Evelyn M., et al. (See Reiser, John E., assignor.)
- Reiser, Franz. (See Reiser, Hubert and F.)
- Reiser, Hubert and F., Guttenberg, N. J. Broom bridle. 1,730,164; Oct. 1.
- Reiser, John E., assignor of one-third to A. L. Reiser and one-third to E. M. Reiser, Chicago, Ill. Golf-ball retriever. 1,723,709; Aug. 6.
- Reiss, Paul, assignor to Viking Tool and machine Co., Inc., Brooklyn, N. Y. Clutch mechanism for sign changers. 1,698,416; Jan. 8.
- Reiss, Philip, New York, N. Y. Garment pocket. 1,711,541; May 7.
- Reisz, August C., Baraboo, assignor of one-half to R. Raschefsky, Milwaukee, Wis. Self-locking terminal connection. 1,715,624; June 4.
- Reiter Company. (See McGill, Chester T., assignor.)
- Reiter, Daniel I., New York, N. Y., Fastening device. 1,715,044; May 28.
- Reiter, Daniel I., New York, N. Y. Fastener. 1,716,462; June 11.
- Reiter, Daniel I., New York, N. Y. Double-pointed pin. 1,724,418; Aug. 13.
- Reiter, Daniel I., New York, N. Y. Stud slide. 1,734,048; Nov. 5.
- Reiter, Daniel I., Brooklyn, N. Y. Fastening device. 1,739,987; Dec. 17.
- Reiter, Daniel I., New York, N. Y. Snap-fastener socket and parts thereof. 1,740,266; Dec. 17.
- Reiter, Daniel I., New York, N. Y., assignor to Rau Fastener Co., Inc., Providence, R. I. Bag lock. 1,698,657; Jan. 8.
- Reiter, Ralph H., Akron, assignor to The Cleveland Trust Company, Cleveland, Ohio. Lubricant and sealing compound. 1,704,446; Mar. 5.
- Reitstötter, Josef. (See Dieterle, W., Matthies, Mauerhoff, and Reitstötter.)
- Reitstötter, Josef. (See Matthies, O. Dieterle, and Reitstötter.)
- Reitstötter, Josef, Berlin-Friedenau, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Silver-halide photographic emulsion and making the same. 1,725,934; Aug. 27.
- Reittinger, Paul W., Denver, Colo. Molasses gate. 1,698,998; Jan. 15.
- Reitz, Charles J. (See Miller, William H., assignor.)
- Reitz, Orville A., Ulm, Ark. Railway-crossing signal. 1,701,011; Feb. 5.
- Reizenstein, Louis J., Pittsburgh, Pa. Processing oils. 1,715,785; June 4.
- Rejtő, Karl. (See Pecz, K., and Rejtő.)
- Rekeen Tool Company. (See Robe, Walten B., assignor.)
- Rekenthaler, Anthony W., Pittsburgh, Pa. Battery carrier and lifter. 1,716,188; June 4.
- Relay Motor Products Corporation. (See Hamilton, Alexander C., assignor.)
- Reliable Automatic Sprinkler Company, The. (See Vera, John F., assignor.)
- Reliable Electric Co., The. (See Cook, Wallace L., assignor.)
- Reliable Electric Co. (See Skidmore, Henry F., assignor.)
- Reliable Machine Works, Inc. (See Zabel, Jacob, assignor.)
- Reliance Company, The. (See Bradley, Harry L., assignor.)
- Reliance Company, The. (See Power, Laurence E., assignor.)
- Reliance Company, The. (See Wilms, Gustav O., assignor.)
- Reliance Electric and Engineering Company, The. (See Corey, James W., assignor.)
- Reliance Gauge Column Company. (See Brown, John R., assignor.)
- Reliance Gauge Column Company, The. (See Brown, J. R., and Mullinix, assignors.)
- Reliance Manufacturing Company. (See Champion, John W., assignor.)
- Reliance Storage and Warehouse Company. (See Sinclair, Cyril G., assignor.)
- Reliance Storage and Warehouse Company. (See Waller, Philip H., assignor.)
- Reller, Edwin L., and J. H. Bruninga, St. Louis, Mo., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Accounting Apparatus. 1,712,356; May 7.
- Rollim Investment Company. (See Miller, William F., assignor.)
- Relyea, Walter I., Schenectady, N. Y., assignor to General Electric Company. Filament-binding means. 1,719,852; July 9.
- Remané, Hermann, Winterthur, Switzerland, assignor to General Electric Company. Method of and apparatus for sealing in incandescent lamps and similar articles. 1,701,388; Feb. 5.
- Remark, Isidore J. (See Iredell, R., and Remark.)
- Remark, Isidore J., assignor to The General Tire and Rubber Company, Akron, Ohio. Collapsible core. 1,709,810; Apr. 16.
- Remark, Isidore J., assignor to The General Tire & Rubber Company, Akron, Ohio. Collapsible core. 1,711,460; Apr. 30.
- Remde, Edward H., assignor to Baker-Raulang Company, Cleveland, Ohio. Automatic circuit-controlling mechanism. 1,710,071; Apr. 23.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,713,780; May 21.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,720,237; July 9.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Operating mechanism and control means therefor. 1,725,968; Aug. 27.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Circuit-breaking mechanism. 1,726,717; Sept. 3.
- Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,740,712; Dec. 24.
- Remedios, Honor de Souza, Kobe, Japan. Sanitary tooth-brush container. 1,724,516; Aug. 13.
- Remey, John T., New York, N. Y. Method and apparatus for forming letters and symbols in the air. 1,716,794; June 11.
- Remey, John T., New York, N. Y. Method and apparatus for forming letters and symbols in the air. 1,716,795; June 11.
- Remey, John T., and T. K. Meloy, assignors to Trans-Lux Daylight Picture-Screen Corporation, New York, N. Y. Opaque projection system. 1,719,450; July 2.
- Remick, Walter L., New York, N. Y. Apparatus for the separation of combustible material from its associated noncombustible material. 1,711,326; Apr. 30.
- Remington Accounting Machine Corporation. (See Hart, Frederick A., assignor.)
- Remington Accounting Machine Corporation. (See Strother, Robert H., assignor.)
- Remington Arms Company. (See Aronson, Peter R., assignor.)
- Remington Arms Company. (See Fuller, Frederick L., assignor.)
- Remington Arms Company. (See Green, Charles W., assignor.)
- Remington Arms Company. (See Hamer, Clarence, assignor.)
- Remington Arms Company. (See Hawley, Amos H., assignor.)
- Remington Arms Company. (See Loomis, Crawford C., assignor.)
- Remington Arms Company. (See Marshall, Norman, assignor.)
- Remington Arms Company. (See Ramsey, William H., assignor.)
- Remington Arms Company. (See Thistlethwaite, Charles A., assignor.)
- Remington Arms Company. (See Tillmanns, Carl W., assignor.)
- Remington Arms Company. (See White, N., Overlin, and Bullington, assignors.)
- Remington Arms Company. (See Willis, S. L., and Woodford, assignors.)
- Remington Arms Company. (See Woodford, Watson H., assignor.)
- Remington, Arthur L., and R. C. Longvall, assignors to Warp Compressing Machine Company, Worcester, Mass. Yarn-compressing mechanism. 1,733,203; Oct. 29.
- Remington, Arthur L., assignor to Warp Compressing Machine Company, Worcester, Mass. Spindle mounting for creels. 1,740,783; Dec. 24.
- Remington, Arthur L., assignor to Warp Compressing Machine Company, Worcester, Mass. Holder for yarn packages. 1,740,784; Dec. 24.
- Remington, Homer O., Mauston, Wis. Attachment for cultivators. 1,707,416; Apr. 2.
- Remington, John M., Fort Wayne, Ind. Leg rest for autoists. 1,740,267; Dec. 17.
- Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Air-filtering device. 1,735,694; Nov. 12.
- Remington Manufacturing Company. (See Remington, Joseph P., assignor.)
- Remington Rand, Inc. (See Taber, Ralph F., assignor.)
- Remington Rand Inc. (See Tillman, Ferdinand J., assignor.)
- Remington Rand Inc. (See Bromfield, St. Clair, assignor.)
- Remington Rand Inc. (See Bruhn, Walter, assignor.)
- Remington Rand Inc. (See Campbell, C. S., and Hunt, assignors.)
- Remington Rand Inc. (See Clark, Thomas B., assignor.)
- Remington Rand Inc. (See Dawson, George H., assignor.)
- Remington Rand Inc. (See Day, William H., assignor.)



- Remington Rand Inc. (See Day, W. H., and Thomas, assignors.)
- Remington Rand Inc. (See Hunt, Alfred E., assignor.)
- Remington Rand Inc. (See Hutchings, Le Roi E., assignor.)
- Remington Rand Inc. (See Landsiedel, Walter W., assignor.)
- Remington Rand Inc. (See Lasker, William W., assignor.)
- Remington Rand Inc. (See Lasker, W. W., and Mueller, assignors.)
- Remington Rand Inc. (See Last, James, assignor.)
- Remington Rand Inc. (See Mahrer, Harvey J., assignor.)
- Remington Rand Inc. (See Ohnstrand, Enoch, assignor.)
- Remington Rand Inc. (See Rand, Benjamin G., assignor.)
- Remington Rand Inc. (See Rand, James H., assignor.)
- Remington Rand Inc. (See Reller, E. L., and Bruninga, assignors.)
- Remington Rand Inc. (See Watters, L. A., and Lloyd, assignors.)
- Remington Rand Inc. (See Weiland, A., and Mezger, assignors.)
- Remington Rand Inc. (See Wigginton, George P., assignor.)
- Remington Rand Inc. (See Wolfe, Clarence H., assignor.)
- Remington Rand Inc. (See Wolters, Carl F., assignor.)
- Remington Typewriter Company. (See Barney, Edwin E., signor.)
- Remington Typewriter Company. (See Going, George G., assignor.)
- Remington Typewriter Company. (See Hart, Frederick A., assignor.)
- Remington Typewriter Company. (See Lewis, Edward Z., assignor.)
- Remington Typewriter Company. (See Mitchell, Edward T., assignor.)
- Remington Typewriter Company. (See Schmidt, Wilhelm A., assignor.)
- Remington Typewriter Company. (See Smith, Arthur W., assignor.)
- Remington Typewriter Company. (See Walsoe, Sigurd L., assignor.)
- Remington, Wolcott. (See Thornton, G. A., and Remington.)
- Remmes, Mathias M. (See Wiggin, J. D., and Remmes.)
- Remnsnider, George, Belleville, Ill. Control for fluid-fuel burners. 1,725,538; Aug. 20.
- Rémond, Léon E., Paris, France. Mechanically-operating retarding device for projectile fuses and other firing devices. 1,699,336; Jan. 15.
- Rémond, Léon E., Paris, France. Supersensitive fuse for projectiles of all calibers. 1,702,133; Feb. 12.
- Rémond, Léon E., Paris, France. Projectile fuse. 1,705,206; Mar. 12.
- Rémond, Léon E., Paris, France. Combined detonator and fuse body for percussion or other fuses. 1,710,271; Apr. 23.
- Rempé, Jacob E., Danville, Ill. Washing machine. 1,740,437; Dec. 17.
- Rempfer, Marvin. (See Cassidy, L. S., and Rempfer.)
- Remy, Benjamin P., Indianapolis, Ind. Magneto-oscillating mechanism. 1,721,669; July 23.
- Remy, Benjamin P., Indianapolis, Ind. Magneto. 1,724,618; Aug. 13.
- Renaud, Aristide F., assignor to Houston Compress Company, Inc., Houston, Tex. Bale-tie opener. 1,718,488; June 25.
- Renaud, Marcel J., Monroe, La. Wall structure. 1,705,373; Mar. 12.
- Renault, Louis. (See Saives, Léon, assignor.)
- Renaux, Eugène P., Paris, France. Vehicle brake. 1,731,753; Oct. 15.
- Renaux, Eugène P., Paris, France, assignor to Bendix Brake Company, Chicago, Ill. Duplex brake mechanism. 1,705,836; Mar. 19.
- Renaux, Eugène P., Paris, France, assignor to Bendix Brake Company, Chicago, Ill. Servo-brake mechanism. 1,706,591; Mar. 26.
- Renaux, Eugène P., Paris, France, assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,715,211; May 28.
- Renaux, Eugène P., Paris, France, assignor to Bendix Brake Company, Chicago, Ill. Retarding mechanism. 1,716,666; June 11.
- Renaux, Eugène P., Paris, France, assignor to Bendix Brake Company, Chicago, Ill. Brake-operating connection. 1,720,494; July 9.
- Rendelman, Joseph, et al. (See Bassion, Morris, assignor.)
- Rendleman, Norman C., Dormont, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Rolling wide strips. 1,715,330; May 28.
- René, Albert M., Grand View, N. Y. Hair-waving device. 1,711,177; Apr. 30.
- Renfer, John E., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Drill-steel retainer. 1,723,483; Aug. 6.
- Renfer, John E., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Drill-steel retainer. 1,724,619; Aug. 13.
- Renfer, John E., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Retainer for drill steels. 1,724,620; Aug. 13.
- Renfrew, Paul B., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Dispensing pump. 1,731,684; Oct. 15.
- Renfrew, Paul B., and R. W. Bond, assignors to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Dispensing pump. Des. 79,050; July 23.
- Rengmann, Thure, Berlin-Charlottenburg, Germany. Loose-leaf binder. 1,711,746; May 7.
- Renholdt, John E. (See Lucarelli, J. M., and Renholdt.)
- Renholdt, John E., assignor to Dictaphone Corporation, Bridgeport, Conn. Record-resurfacing machine. 1,726,859; Sept. 3.
- Renick, Harry P., et al. (See Day, William B., assignor.)
- Renick, Kathryn W. (See Day, William B., assignor.)
- Reninger, Frank J. (See Moyer, F. W., and Reninger.)
- Renke, Robert, assignor to Champion Switch Company, Buffalo, N. Y. Electric switch. 1,718,489; June 25.
- Renn, Konrad. (See Schirmacher, K., and Renn.)
- Renner, Frank J., Joliet, Ill. Combination chair and radio receiving set. 1,700,337; Jan. 29.
- Renner, Herbert, Philadelphia, Pa., assignor, by mesne assignments, to Chemicolor Wood Preserving Co. For-esting and dyeing standing living trees. 1,727,939; Sept. 10.
- Renner, Max, Jasper, Ind. Tractor attachment. 1,729,686; Oct. 1.
- Rennerfelt, Ture G., Stockholm, Sweden. Self-locking nut. 1,726,628; Sept. 3.
- Rennerfelt, Ture G., Stockholm, Sweden. Self-locking nut. 1,729,013; Sept. 24.
- Rennert, Fred J., Queens Village, N. Y. Ventilator. 1,704,578; Mar. 5.
- Rennhack, Henry A., Ottawa, Ontario, Canada. Battery-post terminal clamp. 1,736,623; Nov. 19.
- Rennie, Henry G., Gourcock, Scotland. Device for cleaning golf balls and the like. 1,702,172; Feb. 12.
- Renno, Eberhardt. (See Sünder, J., and Renno.)
- Reno, Jesse W., New York, N. Y. Landing platform for airplanes. 1,718,006; June 18.
- Reno, Jesse W., New York, N. Y. Life-saving net. 1,727,902; Sept. 10.
- Renold, Charles G., and A. Renshaw, Manchester, England. Sprocket chain. 1,728,445; Sept. 17.
- Renold, Hans, Limited. (See Renshaw, Alfred, assignor.)
- Renshaw, Alfred. (See Renold, C. G., and Renshaw.)
- Renshaw, Alfred, assignor to Hans Renold Limited, Manchester, England. Making transmission chains. 1,722,861; July 30.
- Renshaw, Roscoe, Strasburg, Ill. Grain ventilator. 1,699,375; Jan. 15.
- Renstrom, F. A., et al. (See Linder, Gustave E., assignor.)
- Rentschler, Harvey C. (See Marden, J. W., and Rentschler.)
- Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Evacuating electric discharge device. 1,716,149; June 4.
- Rentschler, Harvey C., and J. W. Marden, East Orange, N. J., assignors to Westinghouse Lamp Company. Electron-discharge device. 1,731,268; Oct. 15.
- Rentschler, Mahlon J., Willoughby, assignor of one-half to W. R. Jeavons, Cleveland Heights, Ohio. Washing powder. 1,707,024; Mar. 26.
- Rentz, Bert G., Wells, Minn. Vending game apparatus. 1,697,288; Jan. 1.
- Renwick, Charles S. (See Tittmore, F. A., and Renwick.)
- Renwick, Frederick W., Camden, N. J., assignor of one-half to J. S. Latta, Philadelphia, Pa. Remote control unit for wireless receiving apparatus. 1,697,778; Jan. 1.
- Renwick, Frederick W., Camden, N. J., assignor of one-half to P. H. Rapp, Philadelphia, Pa. Facial heat applicator. 1,714,693; May 28.
- Renwick, Frederick W., Camden, N. J., assignor of three-eighths to J. S. Latta and one-fourth to F. O. Pinkerton, Philadelphia, Pa. Distant control for radio apparatus. 1,742,147; Dec. 31.
- Renz, Friedrich, assignor to Speidel Chain Co., Providence, R. I. Chain. 1,712,582; May 14.
- Renz, George W., Bronx, New York, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,707,370; Apr. 2.
- Renzo, Francesco, and R. Sedlatschek, Paterson, N. J. Shuttle. 1,701,216; Feb. 5.
- Reo Motor Car Company. (See Furgason, Claude E., assignor.)
- Reo Motor Car Company. (See Hildorf, Walter G., assignor.)
- Reo Motor Car Company. (See Jeffries, Schuyler A., assignor.)
- Repenning, Albert E., Oak Park, assignor to Orange-Crush Company, Chicago, Ill. Dispensing fountain. Des. 78,715; June 11.
- Replitura Corporation, The. (See Brixey, Austin D., assignor.)
- Replogle, James B., and J. M. Lea, Detroit, Mich., assignors to Delco-Light Company, Dayton, Ohio. System of generating and storing electricity. 1,738,540; Dec. 10.
- Replogle, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Refrigerated food cabinet. 1,716,150; June 4.
- Replogle, John R., assignor to Kelvinator Corporation, Detroit, Mich. Driving gear for compressors. 1,718,196; June 18.
- Replogle, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Refrigerator. 1,719,024; July 2.
- Replogle, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Vaporizer. 1,727,940; Sept. 10.



- Replogie, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Soda fountain. 1,727,941; Sept. 10.
- Replogie, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Knob for food-cabinet lids. 1,733,755; Oct. 29.
- Republic-Box Company, The. (See Trautman, Ernest, assignor.)
- Republic Brass Company, The. (See Bloch, Leon, assignor.)
- Republic Flow Meters Co. (See Bost, George W., assignor.)
- Republic Flow Meters Co. (See Cunningham, Arthur B., assignor.)
- Republic Flow Meters Company. (See Spitzglass, Jacob M., assignor.)
- Republic Knitting Mills. (See Kipnis, Asher, assignor.)
- Republic Metalware Company, The. (See McCaig, William J., assignor.)
- Republic Metalware Co., The. (See Le Sauvage, George R., assignor.)
- Republic Metalware Co., The. (See Ulrich, Gustav C., assignor.)
- Republic Motor Truck Co. (See Haggart, John C., jr., assignor.)
- Republic Rubber Company, The. (See Brill, Abraham, assignor.)
- Republic Steel Package Company, The. (See Kerlauezo, R. C., Evans, and Merry, assignors.)
- Requa, Mark L. (See Cox, T., Requa, and Knowles.)
- Reschke, William F., Wichita, Kans. Pumping mechanism for oil wells. 1,699,675; Jan. 22.
- Resek, Marc. (See Chadwick, L. S., and Resek.)
- Resek, Marc. (See Chadwick, L. S., Resek, and Dahlstrom.)
- Resek, Marc, East Cleveland, C. C. Rehmer, Cleveland, and J. A. Dahlstrom, East Cleveland, assignors to Perfection Stove Company, Cleveland, Ohio. Water-heating apparatus. 1,703,173; Feb. 26.
- Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Dual-control heating system. 1,712,737; May 14.
- Resek, Marc, Cleveland Heights, and J. A. Dahlstrom, East Cleveland, assignors to Perfection Stove Company, Cleveland, Ohio. Valve. 1,733,204; Oct. 29.
- Reserve Holding Company. (See Bellamy, J. I., and Stehlik, assignors.)
- Reserve Holding Company. (See Bellamy, John I., assignor.)
- Reserve Holding Company. (See Crocker, Thomas F., assignor.)
- Reserve Holding Company. (See Crocker, T. F., and Parrshall, assignors.)
- Reserve Holding Company. (See Gould, Roy F., assignor.)
- Reserve Holding Company. (See Lomax, Clarence E., assignor.)
- Reserve Holding Company. (See Nelson, Martin L., assignor.)
- Reserve Holding Company. (See Oberghell, Herbert F., assignor.)
- Reserve Holding Company. (See Sengebusch, Hans, assignor.)
- Reserve Holding Company. (See Smith, Arthur B., assignor.)
- Reserve Holding Company. (See Stehlik, Rudolph F., assignor.)
- Reserve Holding Company. (See Voss, J. H., and Lomax, assignors.)
- Reserve Holding Company. (See Wicks, John, assignor.)
- Reserve Holding Company. (See Woodruff, Albert E., assignor.)
- Reshaw, George O., Benton Harbor, Mich. Fruit basket. 1,727,617; Sept. 10.
- Reshaw, George O., Benton Harbor, assignor to Perfection Pack Company, Inc., St. Joseph, Mich. Fruit-basket packer. 1,737,518; Nov. 26.
- Residual Cotton Seed Fibres, Limited. (See De Segundo, Edward C., assignor.)
- Resonator Limited, The. (See Davis, Claude H., assignor.)
- Respass, Roland B., Wickford, R. I. Fan diffuser. 1,738,073; Dec. 3.
- Rest, James. (See Girdlestone, H. T., and Rest.)
- Restifo, John L., New York, N. Y. Boxing-glove cover. 1,736,547; Nov. 19.
- Reszkowski, Józef, Niteroy, Brazil. Preheater for boiler feed water. 1,730,783; Oct. 8.
- Retalliau, Edmond, University City, Mo. Composition of matter. 1,730,626; Oct. 8.
- Retif, Georges, deceased; M. E. Gaymy, administrator, Saincoins, France. Apparatus for exercising the fingers. 1,720,571; July 9.
- Retif, Georges, deceased; E. Gaymy, administrator, Saincoins, France. Apparatus for exercising the fingers. 1,739,374; Dec. 10.
- Retschy, Curt, assignor to H. Junkers, Dessau, Germany. Oiling device for crank shafts. 1,698,241; Jan. 8.
- Rettenmeyer, Francis X., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-wave transmission system. 1,717,064; June 11.
- Rettenmeyer, Francis X., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Amplifying circuits. 1,724,965; Aug. 20.
- Rettenmeyer, Frederick, assignor to The Napier Co., Meriden, Conn. Metal link for jewelry. Des. 79,567; Oct. 8.
- Retterath, Valentin, Ingolstadt, Germany. Mechanical working of metals. 1,707,279; Apr. 2.
- Retterer, Raymond W. (See Pearce, E. S., Retterer, and Karibo.)
- Rettig, Charles W. (See Neil, Richard J., assignor.)
- Reuber, Carl H., Long Beach, Calif. Signal. 1,713,004; May 14.
- Reuss, Arthur E., assignor to The General Iron Works Company, Cincinnati, Ohio. Air heaters. 1,715,007; May 28.
- Reuss, Wilhelm, Mannheim, Germany. Soldering and welding medium for aluminum. 1,714,445; May 21.
- Reuter, Henry C., Chicago, Ill. Store-front construction. 1,699,021; Jan. 15.
- Reuter, Henry C., Chicago, Ill. Store-front construction. 1,713,555; May 21.
- Reuter, Irving J., Lansing, assignor to General Motors Corporation, Detroit, Mich. Roadster rear seat. 1,735,908; Nov. 19.
- Reuther, Johann W., Hennef-on-the-Sieg, Germany. Packing device for automatic sack-weighing machines. 1,730,295; Oct. 1.
- Reuther, John, East Aurora, N. Y. Potato digger. 1,738,795; Dec. 10.
- Reutter, Frederick, assignor to Scoville Manufacturing Company, Waterbury, Conn. Socket device for vacuum tubes. 1,711,655; May 7.
- Reutter, Philip A. (See McKnight, R. I., and Reutter.)
- Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Perfume-bottle holder. 1,698,510; Jan. 8.
- Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,735,619; Nov. 12.
- Revere, Clinton T., et al. (See Rider, Herbert E., assignor.)
- Revere Rubber Company. (See Fotheringham, George L., assignor.)
- Revere Rubber Company. (See Lundgren, Edward A., assignor.)
- Reville, Wilfred A., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission-gear lock. 1,719,520; July 2.
- Rex, Clarence D., South Bend, Ind. Automobile headlight. 1,709,191; Apr. 16.
- Rex Manufacturing Company. (See Campbell, William B., assignor.)
- Rex Manufacturing Company. (See Hull, Matthew R., assignor.)
- Rex Manufacturing Company. (See Hull, Robert W., assignor.)
- Rex Manufacturing Company. (See Patten, Charles H., assignor.)
- Rex, Walter H., and F. P. Woodward, Tallahassee, Fla.; said Rex assignor of ten per cent to C. Foster, Atlanta, Ga. Combined rail joint and lock nut. 1,738,116; Dec. 3.
- Rey, Ami, Calais, France. Manufacture of tiles. 1,716,706; June 11.
- Rey, Henri D., Papete, Tahiti, Society Islands. Double-clutch transmission. 1,699,714; Jan. 22.
- Rey, Henri D., Papete, Tahiti, Society Islands. Transmission. 1,699,715; Jan. 22.
- Rey, Henri D., Papete, Tahiti, Society Islands. Transmission. 1,699,990; Jan. 22.
- Reyburn, John R., Fairfield, Conn., assignor to American Chain Company, Inc. Chain link. 1,739,522; Dec. 17.
- Reyes, Ricardo, C. E. Paul, and A. de Vecchi, Mexico, Mexico. Continuous automatic lubricator. 1,721,412; July 16.
- Reyling, George, Mineola, N. Y., and F. L. Platt, New Market, N. J. Liquid-level indicator. 1,737,126; Nov. 26.
- Reyman, Theodore, New York, N. Y. Electric-meter protective means. 1,731,685; Oct. 15.
- Reymer & Brothers, Inc. (See Rayburn, Clyde N., assignor.)
- Reyniller, John L., Piqua, Ohio, assignor, by mesne assignments, of one-half to Hartzell Industries, Inc., Wilmington, Del. Outside spray booth. 1,741,954; Dec. 31.
- Reymond, Martin H., Binghamton, N. Y. Process and apparatus for measuring the material required to cut irregular-shaped patterns. 1,706,967; Mar. 26.
- Reynolds, Arthur W., assignor to The Babcock Manufacturing Company, Leonardsville, N. Y. Cultivator. 1,723,075; Aug. 6.
- Reynolds, Arthur W., assignor to The Babcock Manufacturing Company, Leonardsville, N. Y. Cultivator. 1,739,327; Dec. 10.
- Reynolds Bleacher Company. (See Reynolds, Earl H., assignor.)
- Reynolds, Boyce W., Morgantown, W. Va. Garbage-handling device. 1,698,683; Jan. 8.
- Reynolds, Charles B., La Habra, Calif. Jet-nozzle apparatus. 1,737,684; Dec. 3.
- Reynolds, Chester B. (See Wright, F. R., and Reynolds.)
- Reynolds, Clayton J., Pittsburgh, Pa. Dental flask press. 1,714,189; May 21.
- Reynolds, Damon P. (See Hyde, P. S., and Reynolds.)
- Reynolds, Earl H., assignor to Reynolds Bleacher Company, Chicago, Ill. Purifying food products. 1,733,318; Dec. 3.
- Reynolds, Edward O. (See Newcomb, E. C., and Reynolds.)



- Reynolds, Edward P., Anaheim, Calif. Method of flowing oil. 1,737,894; Dec. 3.
- Reynolds, Frank E. (See Dundin, W. L., and Stehl, assignors.)
- Reynolds, Frederick D., St. Louis, Mo. Combined utility cabinet and stand. 1,735,879; Nov. 19.
- Reynolds, Harrison G., et al., executors. (See Scott, R. W., and Page.)
- Reynolds, Harry L., et al. (See Connor, James G., assignor.)
- Reynolds, J. Louis, Long Island City, N. Y., assignor, by mesne assignments, to Electrical Research Products, Inc. Sound-reproducing system. 1,700,450; Jan. 29.
- Reynolds, Jack E., H. R. Lloyd, Taft, and R. W. Gunn, Los Angeles, Calif.; said Gunn assignor to said Reynolds and said Lloyd. Sucker-rod-fishing tool. 1,720,692; July 16.
- Reynolds, John L. (See de Forest, L., and Reynolds.)
- Reynolds, Joseph S., deceased, Los Angeles, Calif. Security Trust & Savings Bank, executor, and O. M. Reynolds, executrix. Subsoil plow. 1,699,121; Jan. 15.
- Reynolds, Joy S., Detroit, Mich. Hydraulic braking system. 1,704,762; Mar. 12.
- Reynolds, Joy S., Detroit, Mich. Hydraulic braking system. 1,726,517; Aug. 27.
- Reynolds, Lloyd H. V., and W. B. Ensign, assignors to Ensign-Reynolds, Inc., New York, N. Y. Fluid distributor. 1,715,248; May 28.
- Reynolds, Martin C., Oak Park, Ill. Briquette machine. 1,709,155; Apr. 16.
- Reynolds, Morley P., Cleveland Heights, assignors to The W. S. Tyler Company, Cleveland, Ohio. Screening apparatus. 1,729,965; Oct. 1.
- Reynolds, Olive M., et al., executrix. (See Reynolds, Joseph S.)
- Reynolds, Ralph H., Walnut Creek, Calif. Radio apparatus. 1,734,146; Nov. 5.
- Reynolds, Ralph K., Danbury, Conn. Hat-pouncing machine and the like. 1,700,179; Jan. 29.
- Reynolds, Reginald, Riverside, Conn. Identification of skeins in dyeing, etc. 1,705,207; Mar. 12.
- Reynolds, Richard S., assignor to United States Foil Company, Louisville, Ky. Roofing. 1,723,076; Aug. 6.
- Reynolds, Richard S., assignor to United States Foil Company, Louisville, Ky. Roofing material. 1,727,132; Sept. 3.
- Reynolds Spring Company, The. (See Cunningham, Roy H., assignor.)
- Reynolds Spring Company. (See Ferris, Willard J., assignor.)
- Reynolds Spring Company. (See Palmer, Harry A., assignor.)
- Reynolds Spring Company. (See Wisner, Abram C., assignor.)
- Reynolds, Thomas A., et al. (See Archer, William T., assignor.)
- Reynolds, Walker, Anniston, Ala., assignor to Alabama Pipe Company. Pipe joint. 1,699,755; Jan. 22.
- Reynolds, Walker, Anniston, Ala., assignor to Alabama Pipe Company. Apparatus and method for molding pipe. 1,732,616; Oct. 22.
- Reynolds, Walter M., Hattiesburg, Miss. Cultivator. 1,737,519; Nov. 26.
- Reynolds, Warren S. (See Lewis, A. J., and Reynolds.)
- Reynolds, Wellington G., Holyoke, Mass. Noglare writing paper and making same. 1,721,576; July 23.
- Reynolds, William E., Chicago, Ill., assignor of one-half to W. T. Graham, Omaha, Nebr. Electrical health appliance. 1,720,002; July 9.
- Reynolds, William G., Selma, assignor of one-half to E. A. Terrell, Charlotte, N. C. Process and mechanism for the manufacture of roving or yarn. 1,738,796; Dec. 10.
- Reynolds, William H. B., and E. Deane, Pine Bluff, Ark. Switch-rail lock. 1,699,716; Jan. 22.
- Reyrolle, A., & Company. (See Biles, Reginald W., assignor.)
- Reyrolle, A., & Company. (See Coates, F., and Mirrey, and Biles, assignors.)
- Reyrolle, A., & Company Limited. (See Allan, A., and Clothier, assignors.)
- Reyrolle & Company Limited. (See Burgess, W. A. A., and Cooke, assignors.)
- Reyrolle, A., & Company Limited. (See Clothier, H. W., assignors.)
- Reyrolle, A., & Company Limited. (See Leeson, B. H., and Biles, assignors.)
- Reznor, George F., Mercer, Pa. Heating stove. 1,709,231; Apr. 16.
- Reznor, George F., Mercer, Pa. Making gas burners. 1,716,601; June 11.
- Reznor, George F., Mercer, Pa. Gas-heated hot-air furnace. 1,720,239; July 9.
- Reznor, George F., Mercer, Pa. Gas-heated hot-air furnace. 1,734,647; Nov. 5.
- Rhead, Frederick H., East Liverpool, Ohio. Plate or similar article. Des. 79,912; Mar. 5.
- Rhead, Frederick H., East Liverpool, Ohio. Dish. Des. 79,100; July 30.
- Rhead, Frederick H., East Liverpool, Ohio. Plate or similar article. Des. 79,101; July 30.
- Rhead, Frederick H., East Liverpool, Ohio. Cup. Des. 79,102; July 30.
- Rheiner, Alfred, assignor to Chemical Works formerly Sandoz, Basel, Switzerland. Manufacture of substantive dyestuffs of the stilbene series. 1,708,897; Apr. 9.
- Rheingans, William J., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine. 1,740,036; Dec. 17.
- Rheinisch-Westfälische Sprengstoff-Aktiengesellschaft. (See Rathsburg, Hans, assignor.)
- Rheinische Gummi- und Celluloid-Fabrik. (See Beyler, Albert, assignor.)
- Rheinische Gummi- und Celluloid Fabrik. (See Sager, Richard, assignor.)
- Rheinische Kämpler-Fabrik Gesellschaft mit beschränkter Haftung. (See Schüllkopf, Karl, assignor.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Bartels, Erich, assignor.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Goldenberg, Ben Z., assignor.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Heinemann, Karl, assignor.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Herlach, F., and Rakula, assignors.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Rühlmann, Herbert, assignor.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Schuler, H., and Gietmann, assignors.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Schuler, H., and Krum, assignors.)
- Rheinische Metallwaaren- und Maschinenfabrik. (See Schuler, H., and Linder, assignors.)
- Rheinische Metallwaaren- und Maschinenfabrik Sommerda Aktiengesellschaft. (See Faudi, Fritz, assignor.)
- Rhenania Kunheim Verein Chemischer Fabriken A. G. (See Rothe, F., and Brenek, assignors.)
- Rhenania Verein Chemischer Fabriken A. G. (See Rothe, F., and Brenek, assignors.)
- Rhindress, Ira H., Oxford, Nova Scotia, Canada. Milk-bottle safe. 1,720,438; July 9.
- Rhinevault, Harry A., Chicago, Ill., assignor to C. D. Karr, Holland, Mich. Resilient cushion. 1,732,859; Oct. 22.
- Rhoades, Edward F., assignor to Providence Machine Works, Providence, R. I. Battery-post connector. 1,720,003; July 9.
- Rhoades, John A., Oshkosh, Nebr. Crossing signal. 1,708,591; Apr. 9.
- Rhoads, Horace S., Philadelphia, Pa. Spring fabric. 1,734,147; Nov. 5.
- Rhoda, William H., Lakeland, Fla. Ball bearing. 1,699,450; Jan. 15.
- Rhodes, Arthur and C., Keighley, England. Drawing rollers of spinning, doubling, twisting, and like machines. 1,711,803; May 7.
- Rhodes, Austin D., assignor to Judson L. Thomson Manufacturing Co., Waltham, Mass. Rivet-setting machine. 1,698,922; Jan. 15.
- Rhodes, Carl C., San Francisco, Calif. Power-transmission device. 1,701,823; Feb. 12.
- Rhodes, Charles J., Wakefield, England. Flanging and seaming of sheet-metal receptacles. 1,713,625; May 21.
- Rhodes, Charles J., Wakefield, England. Machine for corrugating tubular metal bodies. 1,727,358; Sept. 10.
- Rhodes, Clifford. (See Rhodes, Arthur and C.)
- Rhodes Corporation. (See Rhodes, Harry A., assignor.)
- Rhodes, Frederick H. (See Fenhagen, F. D., Rhodes, and Hesser.)
- Rhodes, Harry A., New York, N. Y., assignor to Rhodes Corporation. Transmission mechanism. 1,730,165; Oct. 1.
- Rhodes-Hochriem Manufacturing Company. (See Hochriem, Gustav F., assignor.)
- Rhodes, M. M., & Sons Co. (See Tobey, Charles W., assignor.)
- Rhodes, Stephen F., Anchorage, Alaska. Pack-carrying device. 1,714,819; May 28.
- Rhodesia Broken Hill Development Company Limited. (See Stevens, R. H., Norris, and Watson, assignors.)
- Rhodia Chemical Co. (See Zimmerli, Adolph, assignor.)
- Rial, Wirt D. (See Black, J. C., and Rial.)
- Rial, Wirt D. (See Black, J. C., Rial, and Howes.)
- Rial, Wirt D. (See Black, J. C., Rial, and McConnell.)
- Rial, Wirt D., Watson, and W. R. Barratt, Palos Verdes Estates, assignors to Pan American Petroleum Company, Los Angeles, Calif. Purifying and adding a green fluorescence to lubricating oil. 1,708,592; Apr. 9.
- Ribbon Miter Machine Company. (See Callender, Hiram C., assignor.)
- Ribbon-Miter Machine Company. (See James, P. H., and Woodsmall, assignors.)
- Ribis, Georges P. G., Paris, France. Shock absorber. 1,706,745; Mar. 26.
- Riblet, Royal N., Spokane, Wash. Traction or supporting wheel. 1,732,484; Oct. 22.
- Ribsam, Nicholas F. (See Wolin, M., and Ribsam.)
- Ricalens, Etienne, Laroque D'Oiles, France. Felting woolen and like textile fabrics having wool powder incorporated therewith. 1,721,470; July 16.
- Ricard, Arthur P., Kansas City, Mo. Flush-tank valve. 1,736,368; Nov. 19.
- Ricard, Eloi, Melle, France, assignor, by mesne assignments, to U. S. Industrial Alcohol Co., New York, N. Y. Apparatus for the continuous manufacture of absolute alcohol. 1,704,213; Mar. 5.
- Ricard, Eloi, and H. M. Guinot, Melle, assignors to Societe Anonyme des Distilleries des Deux-Sevres, Melle (Deux-Sevres), France. Manufacture of furfuryl alcohol and methylfuran. 1,739,919; Dec. 17.
- Ricardo, Gracia. (See Hauschka, Rudolf, assignor.)



- Ricardo, Harry R., London, England. Fuel pump of internal-combustion engines. 1,701,389; Feb. 5.
- Ricardo, Harry R., London, England. Internal-combustion engine. 1,705,374; Mar. 12.
- Ricardo, Harry R., London, England. Crank shaft. 1,705,375; Mar. 12.
- Ricardo, Harry R., London, England. Sleeve-valve internal-combustion engine. 1,718,076; June 18.
- Ricardo, Harry R., London, England. Valve for internal-combustion engines. 1,733,696; Oct. 29.
- Ricardo, Harry R., London, England. Sleeve-valve internal-combustion engine. 1,735,975; Nov. 19.
- Ricardo, Harry R., London, England. Cylinder of internal-combustion engines. 1,739,180; Dec. 10.
- Ricardo, Harry R., London, England. Packing ring for the valves or other reciprocating parts of fluid-pressure engines. 1,740,037; Dec. 17.
- Ricardo, Harry R., London, England. Fuel-injection device for internal-combustion engines. 1,740,316; Dec. 17.
- Ricci del Riccio, Eduardo, Rome, Italy. Electric heating and cooking appliance. 1,699,610; Jan. 22.
- Riccio, Alexander A., New York, N. Y. Thermostatic air control. 1,720,572; July 9.
- Rice, Aubrey L., Huntsville, Mo. Umbrella support. 1,704,407; Mar. 5.
- Rice, Barton & Fales, Incorporated. (See Berry, E. E., and Lodding, assignors.)
- Rice, Barton & Fales, Inc. (See Lodding, Frederick W., assignor.)
- Rice, Barton & Fales, Incorporated. (See Stafford, S. B., and Vedder, assignors.)
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,706,746; Mar. 26.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Loud-speaker. 1,707,570; Apr. 2.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Electric condenser. 1,714,890; May 28.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Sound reproducer. 1,717,263; June 11.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling system. 1,731,866; Oct. 15.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Directive radio transmitting system. 1,740,370; Dec. 17.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Directive radio transmitting system. 1,740,371; Dec. 17.
- Rice, Chester W., and E. W. Kellogg, Schenectady, N. Y., assignors to General Electric Company. Amplifying system. 1,728,879; Sept. 17.
- Rice, Daniel K., Polo, Ill. Wheeled toy vehicle. 1,736,052; Nov. 19.
- Rice, David G., Altadena, Calif. Commercial and admission ticket. 1,713,241; May 14.
- Rice, George E., Brooklyn, N. Y., assignor to Conservation Corporation of America. Treating wood and fibers. 1,732,379; Oct. 22.
- Rice, George E., Brooklyn, N. Y., assignor, by direct and mesne assignments, to Conservation Corporation of America. Treating, impregnating, and stabilizing wood. 1,732,419; Oct. 22.
- Rice, George E., Brooklyn, N. Y., assignor to Conservation Corporation of America. Treating, impregnating, seasoning, and stabilizing wood. 1,732,420; Oct. 22.
- Rice, Harold G., Chicago, Ill. Container for socket-wrench sets. 1,726,718; Sept. 3.
- Rice, Howard E., Canton, Ohio, assignor to I. E. Schilling and C. Dorn, Miami, Fla. Saw. 1,712,008; May 7.
- Rice, I. H. (See Stokes, Charles L., assignor.)
- Rice, Isaac L., Providence, R. I. Ornament. 1,738,613; Dec. 10.
- Rice, Joel T., New York, N. Y. Aircraft propelling and controlling means. 1,727,561; Sept. 10.
- Rice, John A. (See Rickard, E. M., and Rice.)
- Rice, John A., Berkeley, Calif., assignor to The Bubble-stone Company, Pittsburgh, Pa. Manufacture cellular concrete. 1,717,319; June 11.
- Rice, John V., Jr., Bordentown, N. J., assignor to R. C. Schroeder, Philadelphia, Pa. Carburetor. 1,731,938; Oct. 15.
- Rice, John V., Jr., Bordentown, N. J., assignor to R. C. Schroeder, Philadelphia, Pa. Outboard marine motor. 1,733,361; Oct. 29.
- Rice, John V., Jr., Bordentown, N. J., assignor, by mesne assignments, to R. C. Schroeder, Philadelphia, Pa. Internal-combustion engine. 1,737,976; Dec. 3.
- Rice, Joseph, assignor to Elevator Company of America, Chicago, Ill. Swinging-door-control device for elevators. 1,733,906; Oct. 29.
- Rice, Kenneth A., Pittsfield, Mass., assignor to General Electric Company. Heat-dissipating tube for electrical apparatus, casings, and forming such tubes. 1,731,867; Oct. 15.
- Rice, Louis W., assignor to Bernard Rice's Sons, Inc., New York, N. Y. Metal border strip or similar article of manufacture. Des. 78,898; July 2.
- Rice, Oscar J., Great Falls, Mont. Chain. Des. 77,434; Jan. 8.
- Rice, Otis D., Winthrop, Mass. Continuous mechanical drier. 1,730,590; Oct. 8.
- Rice, Robert H., assignor to Solar Products Co., Chicago, Ill. Display carton. 1,714,730; May 28.
- Rice, Robert L., Brookline, assignor to Hood Rubber Company, Watertown, Mass. Overshoe. 1,716,346; June 4.
- Rice, Sturgis C., Franklin, assignor to Whiting & Davis Company, Plainville, Mass. Metal mesh fabric. Des. 78,124; Mar. 26.
- Rice's, Bernard, Sons, Inc. (See Rice, Louis W., assignor.)
- Rich, Arthur, Brooklyn, N. Y. Fence. 1,720,004; July 9.
- Rich, Carl H., assignor to Riley Stoker Corporation, Worcester, Mass. Fuel-feeding mechanism. 1,700,710; Jan. 29.
- Rich, Carl H., assignor to Riley Stoker Corporation, Worcester, Mass. Valve mechanism. 1,705,138; Mar. 12.
- Rich, Carl H., assignor to Riley Stoker Corporation, Worcester, Mass. Casting. 1,716,833; June 11.
- Rich, Cuyler W. (See Rich, Stelmer D., assignor.)
- Rich, Elmer A., Jr., Chicago, Ill., and H. H. Haley, Detroit, Mich., assignors to The American Foundry Equipment Company, New York, N. Y. Sand-treating machine. 1,726,504; Aug. 27.
- Rich, George R., Battle Creek, Mich. Valve tappet. 1,735,695; Nov. 12.
- Rich, George R., Battle Creek, Mich., assignor, by mesne assignments, to Wilcox-Rich Corporation. Making valve tappets. 1,710,996; Apr. 30.
- Rich, George R., Battle Creek, Mich., assignor, by mesne assignments, to Wilcox-Rich Corporation. Making valve tappets. 1,710,997; Apr. 30.
- Rich, George R., Battle Creek, Mich., assignor, by mesne assignments, to Wilcox-Rich Corporation. Valve tappet. 1,731,794; Oct. 15.
- Rich, George R., Battle Creek, assignor to Wilcox-Rich Corporation, Detroit, Mich. Composite metal valve tappet. 1,740,666; Dec. 24.
- Rich, John L., Ottawa, Kans. Extracting petroleum. 1,735,012; Nov. 12.
- Rich, Klinger Gesellschaft m. b. H. (See Eisermann, Rudolf, assignor.)
- Rich, Leon W., et al. (See Zim, Jesse G., assignor.)
- Rich, Lester J., New York, N. Y. Sanitary wearing apparel. 1,741,881; Dec. 31.
- Rich, Malcolm N. (See Marden, J. W., and Rich.)
- Rich, Malcolm N., East Orange, N. J., assignor to Westinghouse Lamp Company. Resistance alloy. 1,731,267; Oct. 15.
- Rich, Malcolm N., East Orange, N. J., assignor to Westinghouse Lamp Company. Pliable tungsten and producing same. 1,731,269; Oct. 15.
- Rich, Malcolm N., East Orange, N. J., assignor to Westinghouse Lamp Company. Reducing rare refractory metal oxides. 1,738,669; Dec. 10.
- Rich, Malcolm N., East Orange, N. J., assignor to Westinghouse Lamp Company. Obtaining chromium. 1,741,955; Dec. 31.
- Rich Manufacturing Company. (See Sapp, James E., assignor.)
- Rich, Stelmer D., assignor of one-half to C. W. Rich, Newport, Me. Hot-air heater. 1,707,096; Mar. 26.
- Rich Tool Company. (See Jardine, Robert, assignor.)
- Rich, William B. (See Mingo, W. G., and Rich.)
- Rich, William T., Lufkin, Tex. Log-trimming machine. 1,715,949; June 4.
- Richard, Charles D., New Brighton, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phonograph-record-recording machine. 1,711,690; May 7.
- Richard Dimes Co. (See Kipp, John M., assignor.)
- Richard, Eugene C., Flint, assignor to General Motors Corporation, Detroit, Mich. Heating mechanism for internal-combustion engines. 1,738,797; Dec. 10.
- Richard, Joseph E., New Bedford, Mass. Adjustable filling guide for shuttles. 1,713,351; May 14.
- Richard, Rémy, Izeaux, France. Manufacturing boots and shoes. 1,701,896; Feb. 12.
- Richard, William E., and J. H. Schroeder, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Dynamo-electric machine. 1,706,255; Mar. 19.
- Richards, A. Perry. (See Dupuis, William S., assignor.)
- Richards, Alfred E. (See Ricks, F., and Richards.)
- Richards, Carl, Peoria, Ill., assignor, by mesne assignments, to Triangle Advertising System, Inc. Power-transmission mechanism. 1,697,836; Jan. 1.
- Richards, Charles S. (See Richards, Ella W., assignor.)
- Richards, Clarence J., Temple, Calif. Roof construction. 1,702,414; Feb. 19.
- Richards, Clarence J., Temple, Calif. Roof construction. 1,702,415; Feb. 19.
- Richards, Ella W., assignor of one-half to C. S. Richards, Washington, D. C. Stocking stretcher. 1,723,489; Aug. 6.
- Richards, Francis B., and J. W. Reber, London, England. Apparatus for discharging vertical retorts. 1,732,064; Oct. 15.
- Richards, Frank C. (See Dowd, James F., assignor.)
- Richards, Frank E., Jackson, Miss. Mower. 1,721,355; July 16.
- Richards, Genave, Syracuse, Nebr. Bed table. 1,725,370; Aug. 20.
- Richards, George W., Wayne, Pa. Drawing compound. 1,732,065; Oct. 15.
- Richards, Howard N., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combined trolley-feeder clamp. 1,739,090; Dec. 10.
- Richards, James A., assignor to The Gunn Furniture Company, Grand Rapids, Mich. Bookcase. 1,729,401; Sept. 24.



- Richards, John A., Kalamazoo, Mich. Circular-saw structure. 1,723,077; Aug. 6.
- Richards, John H., Yakima, Wash. Machine for cleaning fruit. 1,723,441; Aug. 6.
- Richards, Newton D., Los Angeles, Calif. Buckle. Des. 77,769; Feb. 19.
- Richards, Stanley, Dorchester, Mass. Radiocabinet. 1,725,371; Aug. 20.
- Richards, Thomas G., Cambridge, Mass., assignor to Dispersions Process, Inc., Dover, Del. Artificial-leather sheeting and making the same. 1,731,754; Oct. 15.
- Richards, Wesley A. (See Bourg, J. N., and Richards.)
- Richards, Willard F., Depew, N. Y. Coupler. 1,703,598; Feb. 26.
- Richards, Willard F., Depew, N. Y. Driving mechanism for railway-car generators. 1,728,979; Sept. 24.
- Richards, Willard F., Depew, assignor to The Gould Coupler Company, New York, N. Y. Draft rigging. 1,738,020; Dec. 3.
- Richards, Willard F., Depew, assignor to The Symington Company, New York, N. Y. Side frame and journal box. 1,741,537; Dec. 31.
- Richards, Willard F., Depew, assignor to The Symington Company, New York, N. Y. Side frame with separable journal boxes. 1,741,538; Dec. 31.
- Richards, Willard R., Chicago, Ill. Driving mechanism for railway-car generators. 1,723,078; Aug. 6.
- Richards, William, New York, N. Y. Necktie fastener. 1,711,031; Apr. 30.
- Richardsen, Severin, Strommen, Norway. Airship. 1,727,786; Sept. 10.
- Richardson, Allan S., Butte, Mont. Hand fishing net. 1,736,624; Nov. 19.
- Richardson, Amanda E., Boston, Mass. Bookholder. 1,729,228; Sept. 24.
- Richardson, Archibald N. W., Gladesville, New South Wales, Australia. Stiffening and necktie-supporting means for soft and semisoft collars. 1,700,075; Jan. 22.
- Richardson, Bayard E., Grand Rapids, Mich. Desk-drawer lock. 1,712,842; May 14.
- Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Machine for doubling, winding, and measuring cloth. 1,717,120; June 11.
- Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Perch clock. 1,742,170; Dec. 31.
- Richardson, Charles M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Shoe-pressing device. 1,731,024; Oct. 8.
- Richardson Company, The. (See Cain, John R., assignor.)
- Richardson Company, The. (See Felch, Don H. W., assignor.)
- Richardson Company, The. (See Fisher, Harry C., assignor.)
- Richardson Company, The. (See Morris, Warren A., assignor.)
- Richardson Company, The. (See Yungblut, Gibson, assignor.)
- Richardson Corporation. (See Ames, Lewis G., assignor.)
- Richardson Corporation. (See Ames, L. G., and Cartwright, assignors.)
- Richardson Corporation. (See Benham, Leon L., assignor.)
- Richardson, De Soto E., Riverside, Wash. Breast-pushed weeder and cultivator. 1,705,140; Mar. 12.
- Richardson, De Soto E., Riverside, Wash. Tool holder. 1,723,985; Aug. 6.
- Richardson, Edward E., Maumee, Ohio. Light screen. 1,709,951; Apr. 23.
- Richardson, Edward E., Maumee, Ohio, assignor of fifty-one per cent to F. O. Richey. Mat. 1,728,306; Sept. 17.
- Richardson, Eric, Northampton, England. Variable speed and reversing gearing. 1,710,649; Apr. 23.
- Richardson, George L., and W. Pabich, Chicago, Ill., assignors to Latham Machinery Company. Stitching machine. 1,712,843; May 14.
- Richardson, George O. (See Lee, Edwin M., assignor.)
- Richardson, Henry F., Northport, N. Y., assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Well-protection device for elevators. 1,738,729; Dec. 10.
- Richardson, Henry T. (See Puccini, J. V., and Guise, assignors.)
- Richardson, James J., Virginia, Minn. Steering mechanism. 1,709,232; Apr. 16.
- Richardson, James W., Coogee, and P. W. Woollett, Merrylands, New South Wales, Australia. Canning meats. 1,723,710; Aug. 6.
- Richardson, John F., Pittsburgh, Pa. Vehicle brake. 1,707,371; Apr. 2.
- Richardson, John H., Wakefield, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,712,679; May 14.
- Richardson, John M., Cincinnati, assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Roofing slab. 1,741,539; Dec. 31.
- Richardson, Joseph L., Nashville, Ark. Automobile bed. 1,714,891; May 28.
- Richardson, Joseph L., Nashville, Ark. Automobile bed. 1,715,308; May 28.
- Richardson, Lawrence, Louisville, Ky. Transfer table. 1,718,077; June 18.
- Richardson, Led L., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Drill-steel retainer. 1,709,407; Apr. 16.
- Richardson, Led L., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Steel retainer for percussive drills. 1,727,037; Sept. 3.
- Richardson, Myron H., Chicago, and A. E. Gebert, Wilmette, assignors to Advance Machine Company, Chicago, Ill. Vending machine. 1,709,192; Apr. 16.
- Richardson, Myron H., Chicago, and A. E. Gebert, Wilmette, assignors to Advance Machine Company, Chicago, Ill. Check-controlled mechanism. 1,742,010; Dec. 31.
- Richardson, Ralph R., assignor to Chicago Carton Company, Chicago, Ill. Packing and display carton. 1,707,771; Apr. 2.
- Richardson, Ralph S., Teaneck, N. J., assignor to Nitrogen Engineering Corporation, New York, N. Y. Synthetic production of bodies from their component gases. 1,704,214; Mar. 5.
- Richardson, Ralph S., Teaneck, N. J., assignor to Nitrogen Engineering Corporation, New York, N. Y. Synthetic production of ammonia. 1,707,417; Apr. 2.
- Richardson, Robert H., Richmond, Va. Scalp syringe. 1,722,706; July 30.
- Richardson, Rodney G. (See Bellamy, J. I., and Richardson.)
- Richardson, Rodney G., Chicago, Ill. Vibrating device. 1,726,192; Aug. 27.
- Richardson, Rodney G., Chicago, Ill. Electric fan. 1,741,736; Dec. 31.
- Richardson, Rodney G., Chicago, and J. I. Bellamy, Brookfield, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,710,490; Apr. 23.
- Richardson, Rodney G., Chicago, and J. I. Bellamy, Brookfield, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Party-line automatic telephone system. 1,727,133; Sept. 3.
- Richardson, Rodney G., Chicago, and J. I. Bellamy, Brookfield, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Party-line automatic telephone system. 1,731,217; Oct. 8.
- Richardson, Rodney G., and J. E. Gardner, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,721,748; July 23.
- Richardson, Rodney G., Chicago, and M. L. Nelson, Park Ridge, assignors, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,702,392; Feb. 19.
- Richardson, Thomas P., Jr., assignor to Electric Directory Corporation, Tryon, N. C. Directory board. 1,737,520; Nov. 26.
- Richardson, William, New York, N. Y. Groin protector. 1,720,439; July 9.
- Richardson, William D., assignor to Swift & Company, Chicago, Ill. Making cheese. 1,711,032; Apr. 30.
- Richardson, William D., and R. C. Newton, assignors of one-half to Swift & Company, Chicago, Ill., and one-half to A. Musher, Washington, D. C. Food product. 1,701,084; Feb. 5.
- Richardson, William D., and R. C. Newton, assignors of one-half to Swift & Company, Chicago, Ill., and one-half to A. Musher, Washington, D. C. Salad dressing. 1,701,085; Feb. 5.
- Richardson, William H., Parras, Mexico. Decorticating machine. 1,739,611; Dec. 17.
- Richart, J. J., et al. (See Lyon, Oscar B., assignor.)
- Richer, Joseph R., Oak Park, Ill. Variable-speed-change mechanism. 1,715,045; May 28.
- Richert, Paul, New York, N. Y., assignor to Pittsburgh Taximeter Company, Taximeter, 1,703,692; Feb. 26.
- Richert, Paul, New York, N. Y., assignor to Pittsburgh Taximeter Company. Mounting for taximeters. 1,714,190; May 21.
- Riches, Arthur W., Los Angeles, Calif. Light shield. 1,732,534; Oct. 22.
- Richey, Albert E., Fairview, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Web-handling device. 1,737,127; Nov. 26.
- Richey, F. O. (See Richardson, Edward E., assignor.)
- Richey, Fred M., and F. McQuiston, Pittsburgh, Pa. Bathing device. 1,723,578; Aug. 6.
- Richey, Leban E., et al. (See Hard, Merrill W., assignor.)
- Richey, Leon T., Huntington, W. Va., assignor of one-half to A. S. Doty, Ashland, Ky. Closure and disk and securing means therefor. 1,735,056; Nov. 12.
- Richfield Oil Company of California. (See Lachman, Arthur, assignor.)
- Richie, David R. (See Kier, G. L., and Richie.)
- Richie, Joseph D. (See Lesh, Frank, assignor.)
- Richli, William, Stockton, Calif. Gas engine. 1,730,093; Oct. 1.
- Richman, Max, Belvedere, and H. H. Leon, Los Angeles, Calif. Pipe-reaming attachment for pipe-threading tools. 1,731,727; Oct. 15.
- Richman, Walter H., Kirkwood, N. J. Container. 1,701,636; Feb. 12.
- Richman, William H., Philadelphia, Pa. Carton. 1,725,372; Aug. 20.
- Richmond, Ethan A., and E. A. Dix, Quincy, Ill. Electric safety device. 1,709,283; Apr. 16.
- Richmond Fireproof Door Co. (See Coates, Frederick, assignor.)
- Richmond Fireproof Door Company. (See Peelle, Charles W., assignor.)
- Richmond Fireproof Door Company. (See Winder, Joseph Z., assignor.)
- Richmond, George O. (See Candee, A. H., and Richmond.)



- Richmond, John E., Eugene, Oreg., assignor, by mesne assignments, to The Dentist's Supply Company of New York. Precision instrument. 1,732,195; Oct. 15.
- Richmond Pressed Metal Works, Incorporated. (See Knott, Archer F., assignor.)
- Richmond, Rosie. (See Smith, L., and Richmond.)
- Richmond, Samuel L., Balboa, Canal Zone, Panama. Growing plants in tropical climates. 1,726,767; Sept. 3.
- Richter, August F. (See Dunbar, T. L., and Richter.)
- Richter, Charles, Mount Vernon, N. Y., assignor to Chatham Metal Spinning and Stamping Corporation. Ceiling-light fixture. Des. 79,984; Nov. 26.
- Richter, Charles, assignor to Chatham Metal Spinning and Stamping Corporation, New York, N. Y. Lighting fixture. Des. 80,141; Dec. 17.
- Richter, Emil. (See Zwicky, M., and Richter.)
- Richter, Erich, Zittau, Germany. Ornament for bobbed hair. 1,715,331; May 28.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Cellulose composition for esterification and preparing same. 1,700,595; Jan. 29.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Composition for conversion into cellulose derivatives and preparing same. 1,700,596; Jan. 29.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Wood fiber for high-grade paper and derivative manufacture. 1,709,322; Apr. 16.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Recovery of valuable products from spent sulphite liquors. 1,710,272; Apr. 23.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Fiber liberation and recovery of valuable constituents of the waste liquor. 1,719,129; July 2.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Production of gas strong in sulphur dioxide. 1,724,421; Aug. 13.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Cyclic process of fiber liberation. 1,730,383; Oct. 8.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Pulping raw cellulosic material. 1,735,013; Nov. 12.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Production of sulphite pulp. 1,735,014; Nov. 12.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Method of and apparatus for the production of cellulose pulp. 1,735,015; Nov. 12.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Production of high alpha cellulose fiber for the manufacture of cellulose derivatives. 1,741,540; Dec. 31.
- Richter, George A., and E. W. Lovering, assignors to Brown Company, Berlin, N. H. Printing-ink composition and making same. 1,738,798; Dec. 10.
- Richter, George A., and M. O. Schur, assignors to Brown Company, Berlin, N. H. Raw material for cellulose derivatives and process of preparation. 1,729,629; Oct. 1.
- Richter, George A., and W. B. Van Arsdell, assignors to Brown Company, Berlin, N. H. Recovering heat and chemicals. 1,719,150; July 2.
- Richter, George A., M. O. Schur, and R. H. Rasch, assignors to Brown Company, Berlin, N. H. Conditioning cellulose fiber for conversion into cellulose derivatives, and product of same. 1,701,543; Feb. 12.
- Richter, George A., M. O. Schur, and R. H. Rasch, assignors to Brown Company, Berlin, N. H. Conditioning cellulosic material for preparation of cellulose derivatives and product of same. 1,729,628; Oct. 1.
- Richter, H. E., et al. (See McEherny, Frank C., assignor.)
- Richter, Henry G., Roselle Park, assignor to Electrad, Inc., New York, N. Y. Electric resistance unit. 1,697,406; Jan. 1.
- Richter, Johannes, assignor to the Firm Ernst Paul Lehmann Patentwerk, Brandenburg-on-the-Havel, Germany. Figure wheeled toy. 1,722,340; July 30.
- Richter, Johannes, assignor to the firm Ernst Paul Lehmann Patentwerk, Brandenburg-on-the-Havel, Germany. Toy motor car. 1,730,296; Oct. 1.
- Richter, John W. (See Bouvier, G. A., and Richter.)
- Richter, Julius, Vienna, Austria. Bandage or catamenial appliance. 1,724,111; Aug. 13.
- Richter, Max, assignor to Textile Machine Works, Wyoming, Pa. Cam-shaft shift-control mechanism for full-fashioned-knitting machines. 1,705,500; Mar. 19.
- Richter, Orrie B., La Crosse, Wis. Mower. 1,721,090; July 16.
- Richter, Walter. (See von Hoessle, C. H., and Richter.)
- Richter, Walter E. (See Smith, Harvey E., assignor.)
- Richter, William A., Milwaukee, Wis. Refrigerated display counter. 1,711,691; May 7.
- Richteressing, Frank H., assignor to Cheatham Switching Device Company, Louisville, Ky. Electrical control system. 1,736,801; Nov. 26.
- Richtmyer, Floyd K., Ithaca, N. Y., assignor, by mesne assignments, to Ray-Signs Corporation. Sign. 1,717,938; June 18.
- Rick, August J., St. Louis, Mo., and J. Fliehdner, Flushing, assignors to American Manufacturing Company, Brooklyn, N. Y. Drawing frame. 1,709,489; Apr. 16.
- Rickard, Eric M., and J. A. Rice, Berkeley, Calif., assignors to The Bubblestone Company, Pittsburgh, Pa. Method of and apparatus for mixing foam with plastic materials. 1,716,932; June 11.
- Rickard, John E., Seattle, Wash. Scaffold. 1,721,670; July 23.
- Ricke, Edward H., East Chicago, Ind. Arch support. 1,698,003; Jan. 8.
- Ricker, Charles P., assignor to Berst-Forster-Dixfield Company, Dixfield, Me. Machine for assembling wooden skewers or other articles. 1,702,019; Feb. 12.
- Ricker, Chester S., Waukesha, Wis. Headlight photometer. 1,739,650; Dec. 17.
- Rickersberg, Emanuel, Cleveland, Ohio. Brush. 1,706,862; Mar. 26.
- Rickersberg, Emanuel, Cleveland, Ohio. Combination brush and spraying nozzle. 1,741,435; Dec. 31.
- Ricketts, Homer C., assignor to Brodrex Company, Winter Haven, Fla. Treating fruit and the like. 1,700,908; Feb. 5.
- Ricketts, John A., Rochester, N. Y. Reel attachment for fish rods. 1,709,952; Apr. 23.
- Rickles, Peretz A. (See Lewers, E., and Rickles.)
- Ricks, Fred. (See Barclay, W. R., and Ricks.)
- Ricks, Fred. (See Gouldbourn, J., and Ricks.)
- Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for incorporating stiffeners in boots and shoes. 1,704,839; Mar. 12.
- Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe stiffener and making the same. 1,704,991; Mar. 12.
- Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon pieces of stock. 1,705,586; Mar. 19.
- Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Lip-turning machine. 1,715,570; June 4.
- Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing machine or other machine employing wax or like heating devices. 1,731,109; Oct. 8.
- Ricks, Fred, and A. E. Richards, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Edge-finishing machine. 1,711,618; May 7.
- Ricks, Fred, and A. E. Richards, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Edge-finishing machine. 1,735,935; Nov. 19.
- Ricks, Fred, Leicester, and V. E. Wilson, Kettering, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Device for use in rounding and channeling soles of boots and shoes. 1,733,205; Oct. 29.
- Ricks, Fred, and R. B. Woodcock, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,707,571; Apr. 2.
- Ricks, Fred, and R. B. Woodcock, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Louis-beel breast-flap-trimming machine. 1,708,401; Apr. 9.
- Ricks, Randal, Springfield, Mo. Mop holder. 1,740,903; Dec. 24.
- Ricordel, Auguste L., assignor to Société Anonyme la Precision Moderne, Paris, France. Machine-gun carriage. 1,722,862; July 30.
- Riddell, John T., Evanston, Ill. Athletic shoe. 1,724,365; Aug. 13.
- Riddell, W. A., Company. (See Stuckey, Robert B., assignor.)
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. 1,701,121; Feb. 5.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Intermittent-feed mechanism. 1,716,463; June 11.
- Ridderstrom, Andrew R., Nahant, assignor to Beacon Folding Machine Company, Lynn, Mass. Folding machine. 1,703,544; Feb. 26.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,046; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,047; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,048; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,049; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,050; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,051; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,052; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 1,721,053; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gearing. 1,721,054; July 16.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine and method. 1,725,159; Aug. 20.



- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,733,362; Oct. 29.
- Ridderstrom, Andrew R., Nahant, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Folding machine and method. 1,740,408; Dec. 17.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine and method. 1,740,409; Dec. 17.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,740,410; Dec. 17.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,740,412; Dec. 17.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,740,413; Dec. 17.
- Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine and method. 1,740,414; Dec. 17.
- Riddle, Frank H. (See Jeffery, J. A., and Riddle.)
- Riddle, Louis M., assignor to Ochiltree Electric Company, Pittsburgh, Pa. Illuminating structure. 1,712,583; May 14.
- Riddle, Napoleon B., St. Francisville, La. Rubber heel. 1,714,446; May 21.
- Riddle, Napoleon B., St. Francisville, La. Dental impression tray. 1,728,137; Sept. 10.
- Riddle, Napoleon B., St. Francisville, La. Rubber-shoe-heel-securing means. 1,731,321; Oct. 15.
- Riddle, Napoleon B., St. Francisville, La. Saliva ejector. 1,731,322; Oct. 15.
- Riddle, Roy A., New Orleans, La., and W. D. Carpenter, Memphis, Tenn., assignors to Standard Oil Development Company. Fluid-pressure-operated hoist. 1,725,302; Aug. 20.
- Riddle, Zelle, San Diego, assignor of one-fourth to W. B. Hancock and one-fourth to D. H. Kirk, Los Angeles, Calif. Combination locking mechanism for vehicles. 1,710,242; Apr. 23.
- Riddle, Zelle, assignor of sixty per cent to D. Kirk, Bell, and twenty per cent to W. R. Hancock, San Diego, Calif. Electric lamp. 1,722,640; July 30.
- Riddles, Leo M., Johnstown, Pa. Automatic control for electric-light circuits. 1,738,206; Dec. 3.
- Ridenour, Arch P., Los Angeles, Calif. Battery terminal and liner puller. 1,732,696; Oct. 22.
- Ridenour, Bernard R. (See Watson, Arthur T., assignor.)
- Ridenour, J. E. (See Hagemo, Ingvald J. A., assignor.)
- Rideout, Russell H. (See Hanneman, W. M., and Rideout.)
- Rider, George F., Chicago, Ill. Medal or similar article. Des. 79,103; July 30.
- Rider, Herbert E., assignor of thirty-four per cent to E. Blair, eighteen per cent to C. T. Revere, and eighteen per cent to G. C. Shubert, New York, N. Y. Thermostat electric control device. 1,715,676; June 4.
- Rider, Herbert E., assignor to E. L. Hall, New York, N. Y. Temperature indicator. 1,728,907; Sept. 17.
- Riderich, George J., Brooklyn, N. Y. Glare shield for eyeglasses. 1,740,835; Dec. 24.
- Ridge-Whitworth, Limited. (See Pugh, J. V., and Bayliss, assignors.)
- Riders, Horace L., Granum, Alberta, Canada. Skate. 1,702,316; Feb. 19.
- Ridgeway, John A. (See Ridgeway, Leroy E., assignor.)
- Ridgeway, Leroy E., assignor of one-half to J. A. Ridgeway, Lowell, Ariz. Machine bar. 1,701,122; Feb. 5.
- Ridgway, Nelson P., Tacoma, Wash. Rotary hammer. 1,724,419; Aug. 13.
- Ridgway, Raymond R. and J. B. Glaze, La Salle, N. Y., assignors to Norton Company. Aluminous material and preparing the same. 1,719,131; July 2.
- Ridgwell, William H., Norfolk, Va. Grate-bar support. 1,721,413; July 16.
- Riding, Arthur G., Hashington, England. Derby doubles or silver-lap machine. 1,725,018; Aug. 20.
- Ridley, Albert S. (See Tottenham, A. T., and Ridley.)
- Ridley, Alfred, Indianapolis, Ind. Concealed hinge. 1,735,696; Nov. 12.
- Ridley, Martyn N., Leeds, England. Wheel and rail for the purpose of enabling vehicles to be used on roads or railways. 1,716,004; June 4.
- Ridley, Martyn N., Leeds, England. Vehicle for use on roads or railways. 1,716,005; June 4.
- Ridley, Martyn N., Leeds, England. Vehicle for use on roads or railways. 1,729,310; Sept. 24.
- Riead, Harry. (See Kennedy, J., and Riead.)
- Rieck, Wilhelm O. P., Hamburg-Barmbeck, Germany. Bottle-stoppering machine. 1,699,209; Jan. 15.
- Riecke, Ernst, Charlottenburg, Germany, assignor to General Electric Company. Electric drive. 1,733,074; Oct. 22.
- Ried, Phillip G., Lomita, Calif. Standing valve. 1,705,203; Mar. 12.
- Riedel, Franz, Long Island City, N. Y. Automobile headlight. 1,707,540; Apr. 2.
- Riedel, I. D.-E. de Haen A. G. (See Schmidt, Ernst W., assignor.)
- Riedel, Walter W., assignor to Delco-Remy Corporation, Dayton, Ohio. Locating instrument. 1,708,191; Apr. 9.
- Riedel, Walter W., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,716,464; June 11.
- Riedl, Anton. (See Heinisch, O., and Riedl.)
- Riefschneider, Walter, Seattle, Wash. Auto signal. 1,712,844; May 14.
- Rieg, John B., Orange, assignor to Erving Paper Mills, Erving, Mass. Embossed paper for paper napkins or similar articles. Des. 78,986; July 16.
- Riegel, Clarence H., Niles, Ohio. Closure for sheet-metal receptacles. 1,724,366; Aug. 13.
- Riegel, Clarence H., Chagrin Falls, Ohio. Shipping container. 1,724,367; Aug. 13.
- Riegel, Clarence W. (See Wilkinson, A. W., and Riegel.)
- Rieger, Walter N., Taft, Calif. Circulation shut-off device. 1,706,072; Mar. 19.
- Riehl, Edgar, and O. Lind, Dusseldorf, assignors to Henkel & Cie. G. m. b. H., Dusseldorf-Holthausen, Germany. Washing textile goods. 1,716,347; June 4.
- Riehl, Harry S., assignor of one-half to F. Meyer, Louisville, Ky. Antitheft curtain for motor vehicles. 1,731,439; Oct. 15.
- Riehm, Wilhelm, assignor to Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Internal-combustion engine. 1,702,572; Feb. 19.
- Riehm, Wilhelm, assignor to the firm Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Combustion engine. 1,716,978; June 11.
- Riek, Forest O., Rhinelander, Wis. Condenser. 1,702,020; Feb. 12.
- Riek, Rudolph A. (See Lehmann, Emil, assignor.)
- Riek, Rudolph A., Rhinelander, Wis. Refrigerator door. 1,698,924; Jan. 15.
- Riek, Rudolph A., Rhinelander, Wis. Refrigerator construction. 1,701,422; Feb. 5.
- Rieke, Frank R., et al. (See White, John S., assignor.)
- Rieke Metal Products Corporation. (See Rieke, Theodore W., assignor.)
- Rieke, Theodore W., Auburn, Ind., assignor, by mesne assignments, of one-half to J. M. Finney, Cleveland Ohio, and one-half to A. Y. Beckwith administrator of Anthony Schroeder, deceased. Positioning rings in the metallic wall of a container. 1,732,536; Oct. 22.
- Rieke, Theodore W., assignor to Rieke Metal Products Corporation, Auburn, Ind. Container. 1,732,545; Oct. 22.
- Riel, Joseph, Minneapolis, Minn., assignor of one-half to J. Dillman, Strasburg, N. Dak. Grabhook. 1,699,022; Jan. 15.
- Riemann, Otto, Wellingsbuttel, near Hamburg, Germany. Production of starch from sweet potatoes. 1,735,976; Nov. 19.
- Rienks, William, Hillegersberg, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Driving mechanism for slicing machines. 1,710,896; Apr. 30.
- Rienks, William, assignor to Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen, Rotterdam, Netherlands. Illuminating means for scale indicators. 1,724,966; Aug. 20.
- Rieske, Otto G., Buffalo, N. Y. Filleting machine. 1,728,254; Sept. 17.
- Riesland, Ben. (See Gneuchtel, Victor H., assignor.)
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Variable-capacity compressor. 1,704,343; Mar. 5.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Connecting rod. 1,717,810; June 18.
- Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Initial-starting unloader for air compressors. 1,741,117; Dec. 24.
- Riesterer, Célestin, Christiansand, Norway. Slate fastener. 1,717,582; June 18.
- Rife, Mervin O., and W. P. Capps, Shreveport, La. Tubing drainer. 1,712,400; May 7.
- Rife, Roy R., San Diego, Calif. Microscope lamp. 1,727,618; Sept. 10.
- Riffert, Frank L., Haubstadt, Ind. Aeroplane. 1,705,535; Mar. 19.
- Rigabar, Napoleon. (See Clinch, C. G., Rigabar, and Gibbs.)
- Rigal, Herman, Casper, Wyo. Quick-action control valve. 1,705,139; Mar. 12.
- Rigby, Albert V., assignor of one-half to C. J. Mehler, Sharon, Pa. Liquid-fuel-burner nozzle. 1,737,945; Dec. 3.
- Rigby, Thomas, London, England. Manufacturing cement. 1,699,451; Jan. 15.
- Rigby, Thomas, London, England. Apparatus for making cement by the wet process. 1,706,747; Mar. 26.
- Rigby, Thomas, London, England. Manufacture of cement by the wet method in rotary kilns. 1,706,748; Mar. 26.
- Rigby, Thomas, London, England. Treatment of slurries in rotary kilns. 1,706,749; Mar. 26.
- Rigby, Thomas, London, England. Plant for the manufacture of cement. 1,706,750; Mar. 26.
- Riggle, Elmer W. (See Kelley, Frank C., assignor.)
- Riggs, Alger S., New York, N. Y., assignor to Thermionic Corporation. Automatic switch. 1,718,379; June 25.
- Riggs, John C., Dos Cabezas, Ariz. Pump. 1,715,212; May 28.



- Riggs, Roy, Bedford, Ind. Electric hammer. 1,738,207; Dec. 3.
- Riggsbee, Joseph J., Durham, N. C. Manicuring device. 1,700,076; Jan. 22.
- Rightenour, Asa L., et al., trustees. (See Rightenour, Asa L., assignor.)
- Rightenour, Asa L., assignor to J. L. Henry, A. L. Rightenour, C. H. Frizelle, A. J. Skaff, C. E. McArthur, F. J. Queen, and O. D. La Fontaine, Chicago, Ill., trustees. Variable-stroke combustion engine. 1,728,363; Sept. 17.
- Rightmire, Floyd E., Binghamton, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Applying adhesive. 1,734,148; Nov. 5.
- Rightway Corporation, The. (See Cadwell, E. B., and Webb, assignors.)
- Rigold, Ernest E., Ashford, England. Plate for a sock suspender. Des. 77,435; Jan. 8.
- Riise, John, Doylestown, Ohio. Brake. 1,699,208; Jan. 15.
- Rike Folding Box Company, The. (See Klin, John R., assignor.)
- Riker, Andrew L., Fairfield, Conn. Ventilator. 1,722,059; July 23.
- Riker, Frederick J., and C. E. Bleicher, assignors to Chrysler Corporation, Detroit, Mich. Oven construction. 1,712,845; May 14.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 78,939; July 9.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 78,940; July 9.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 78,941; July 9.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,204; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,205; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,206; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,207; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,208; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,209; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,210; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,211; Aug. 13.
- Riker, Samuel M., Chester, N. J. Shoe Buckle. Des. 79,238; Aug. 20.
- Riker, Samuel M., Chester, N. J. Heel Decoration for Women's Slippers. Des. 79,239; Aug. 20.
- Riker, Samuel M., Chester, N. J. Shoe Buckle. Des. 79,240; Aug. 20.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,481; Sept. 24.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,568; Oct. 8.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,569; Oct. 8.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,570; Oct. 8.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,571; Oct. 8.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,572; Oct. 8.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,605; Oct. 15.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,606; Oct. 15.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,607; Oct. 15.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,608; Oct. 15.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,664; Oct. 22.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,665; Oct. 22.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,666; Oct. 22.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 79,667; Oct. 22.
- Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,186; Dec. 24.
- Riklin, Edward C., Tonawanda, N. Y., assignor to Buffalo Steam Pump Company, Buffalo, N. Y. Lubricating means for bearings. 1,725,303; Aug. 20.
- Rile, Frederick C., Chicago, Ill. Fastener. 1,729,489; Sept. 24.
- Riley, Champlain L., North Plainfield, N. J., assignor to Industrial Associates, Incorporated, New York, N. Y. Centrifugal apparatus. 1,732,110; Oct. 15.
- Riley, Francis B., Newton Highlands, Mass. Apparatus for the production of diagonal-strand fabrics. 1,719,341; July 2.
- Riley, Francis B., Newton Highlands, assignor to Heywood-Wakefield Company, Boston, Mass. Fabric. 1,704,344; Mar. 5.
- Riley, Frederick R., London, England. Spraying device. 1,714,694; May 28.
- Riley, Herbert E., assignor to Tower Manufacturing Corporation, Boston, Mass. Vibratory health apparatus. 1,730,687; Oct. 8.
- Riley, John E. and V. M., Menomonie, Wis. Curling iron. 1,720,378; July 9.
- Riley, Joseph, Sabattus, Me. Mule starter. 1,712,170; May 7.
- Riley, Lester S., Reading, Mass. Filing spindle. 1,713,192; May 14.
- Riley, Mark L., Barrington, Ill. Down-corn conveyer for corn harvesters. 1,708,327; Apr. 9.
- Riley, Matthew L., Jordan, Minn. Tension indicator for corn-planter check wires. 1,715,098; May 28.
- Riley, Patrick J., Pittsburgh, Pa. Combination pressure-regulating and relief valve. 1,725,539; Aug. 20.
- Riley, Ralph E., assignor to The Miller Rubber Company, Akron, Ohio. Making overshoes. 1,739,612; Dec. 17.
- Riley, Ralph J., Livermore Falls, Me. Sprocket wheel. 1,704,150; Mar. 5.
- Riley, Robert S., Worcester, Mass., assignor to Riley Stoker Corporation. Underfeed stoker. 1,708,739; Apr. 9.
- Riley, Robert S., assignor to Sanford Riley Stoker Company, Worcester, Mass. Pulverizing mill. 1,711,063; Apr. 30.
- Riley, Robert S., assignor to Riley Stoker Corporation, Worcester, Mass. Stoker-driving mechanism. 1,712,401; May 7.
- Riley, Robert W., Los Angeles, Calif. Hamburger-cooking stove. 1,706,365; Mar. 19.
- Riley, Samuel J., Youngstown, Ohio. Furnace regulator. 1,697,089; Jan. 1.
- Riley Stoker Company. (See Taylor, Irving A., assignor.)
- Riley Stoker Corporation. (See Andrews, L. V., and Craig, assignors.)
- Riley Stoker Corporation. (See Beach, David K., assignor.)
- Riley Stoker Corporation. (See Beers, Royce L., assignor.)
- Riley Stoker Corporation. (See Craig, Ollison, assignor.)
- Riley Stoker Corporation. (See Daniels, Fred H., assignor.)
- Riley Stoker Corporation. (See Harrison, Frank Y., assignor.)
- Riley Stoker Corporation. (See Johnson, Oscar A., assignor.)
- Riley Stoker Corporation. (See Peck, Jess W., assignor.)
- Riley Stoker Corporation. (See Pigott, Thomas F., assignor.)
- Riley Stoker Corporation. (See Rich, Carl H., assignor.)
- Riley Stoker Corporation. (See Riley, Robert S., assignor.)
- Riley, Vera M. (See Riley, John E. and V. M.)
- Rilling, Ernst, Dusslingen, Germany. Coffee mill. 1,711,208; Apr. 30.
- Rimmer, Gilbert, Nottingham, and A. Y. Hoy, London, England, assignors to Sullivan Machinery Company, Chicago, Ill. Mining apparatus. 1,704,674; Mar. 5.
- Rinaldi, Giovanni. (See Sala, A., and Rinaldi.)
- Rinaldi, Tony M., et al. (See Fiore, Lorenzo A., assignor.)
- Rinau, Wilhelm, Bremen, Germany. Feed gear for disintegrators, agitators, mixers, and kneaders. 1,721,471; July 16.
- Rind, Max, Seattle, Wash. Smokehouse. 1,715,625; June 4.
- Rindsberg, Harry D., assignor to H. J. Hater, Cincinnati, Ohio. Core-drilling process. 1,699,921; Jan. 22.
- Rindsberg, Harry D., assignor to H. J. Hater, Cincinnati, Ohio. Mold. 1,704,018; Mar. 5.
- Rinebold, Wilbert H. (See Stambaugh, Harry R., assignor.)
- Rinehart, Braman C., Chicago, Ill. Oil-storage-tank gauge. 1,741,792; Dec. 31.
- Rinehart, Harvey E., and N. H. Smith, Wheeler, Oreg. Coupling for air-brake hose and other hose of similar nature. 1,726,123; Aug. 27.
- Rinehart, Hugh M., Long Beach, Calif., assignor to Star Drilling Machine Company. Portable rotary assembly. 1,712,846; May 14.
- Rinehart, William G. (See Miller, L. B., and Rinehart.)
- Ring, Frederick G., Winchester, Mass., and P. G. Paris, Bethlehem, Pa., said Paris assignor to Bethlehem Steel Company. Apparatus for refining crude petroleum. 1,734,880; Nov. 5.
- Ring, Harry S., Chicago, Ill. Pivot and bearing. 1,741,737; Dec. 31.
- Ring, Wallace, Wakefield, Nebr. Folding drag bar for harrows. 1,708,328; Apr. 9.
- Ring, John C. (See Eames, G. M., and Ringe.)
- Ringe, John C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-thread controller for sewing machines. 1,732,206; Oct. 15.
- Ringelhan, Gustav, Dresden, Germany. Stamping tool for keys. 1,734,881; Nov. 5.
- Ringelmann, Herman L. (See Meyer, Svend M., assignor.)
- Ringer-Worcester Company. (See Duvall, George M., assignor.)
- Ringfeder G. m. b. H. (See Kreissig, Ernst, assignor.)
- Ringle, Robert F., Zellenople, Pa. Movement-regulating mechanism. 1,739,042; Dec. 10.
- Ringler, William A., Philadelphia, assignor to The Individual Drinking Cup Company, Inc., Easton, Pa. Cup holding and dispensing device. 1,702,573; Feb. 19.
- Ringler, William A., Philadelphia, Pa., assignor to The Globe-Wernicke Co. Visible index. 1,705,268; Mar. 12.
- Ringler, William A., Philadelphia, Pa., assignor to The Globe-Wernicke Co. Visible index. 1,731,543; Oct. 15.



- Ringwald, Clarence, North Hampton, assignor to Robbins & Meyers, Inc., Springfield, Ohio. Ceiling fan. Des. 79,761; Oct. 29.
- Ringwald, Clarence, assignor of one-half to C. H. Caine, Chicago, Ill. Thermostatic control for generators. 1,718,980; July 2.
- Rini, Anthony M., Dover, Ohio. Sealing ring for jars. 1,740,904; Dec. 24.
- Rinkel, Paul, Berlin-Charlottenburg, Germany. Folding-frame aerial. 1,739,860; Dec. 17.
- Rinkleproof Box Co. (See Spitzer, Maurice, assignor.)
- Rinman, Erik L., Djursholm, Sweden. Treating waste liquor. 1,699,808; Jan. 22.
- Rinman, Erik L., Djursholm, Sweden. Producing cellulose and paper from straw, esparto, reed, and similar raw materials. 1,716,006; June 4.
- Rinman, Erik L., Djursholm, Sweden. Producing pure aluminum hydrate particularly from aluminum containing raw materials rich in silica. 1,732,773; Oct. 22.
- Rinne, John, Rutledge, Pa. Metal framework for umbrellas. 1,699,717; Jan. 22.
- Rinneberg, Emil, Nuremberg, Germany. Javelin. 1,731,686; Oct. 15.
- Ripley, Charles L., assignor of one-half to L. K. Barry, Toledo, Ohio. Mixing apparatus. 1,707,669; Apr. 2.
- Ripley, Charles T., and J. L. Armstrong, assignors to S. & T. Metal Company, Chicago, Ill. Car-wheel grinder. 1,717,345; June 11.
- Ripley, Daniel A., Aspinwall, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for feeding molten glass. 1,732,773; Oct. 22.
- Ripley, David W., assignor to Sun-Maid Raisin Growers of California, Fresno, Calif. Carton-closing device. 1,699,809; Jan. 22.
- Ripley, Perry C., assignor to Kester Solder Company, Chicago, Ill. Rosin-core solder. 1,724,680; Aug. 13.
- Ripley, Russell R., and S. C. Schwarz, Portland, Oreg. Recovery of gas tars from their emulsions with water. 1,724,222; Aug. 13.
- Rippe, Charles, assignor to The Bryant Electric Company, Bridgeport, Conn. Fuse plug. 1,727,178; Sept. 3.
- Ripper, Kurt, assignor to F. Pollak, Vienna, Austria. Manufacture of molded artificial masses by removing the liquid medium from emulsion colloids. 1,701,986; Feb. 12.
- Ripper, Kurt, assignor to F. Pollak, Vienna, Austria. Manufacture of film-forming solutions. 1,734,693; Nov. 5.
- Ripsey, Hugh F. (See Laucks, I. F., Banks, and Rippey.)
- Rippey, Hugh F., assignor to Laucks Laboratories Inc., Seattle, Wash. Edible nut and providing the same. 1,733,697; Oct. 29.
- Rippey, Hugh F., G. Davidson, C. N. Cone, I. F. Laucks, and H. P. Banks, Seattle, Wash. Carbonaceous briquette and making the same. 1,735,506; Nov. 12.
- Rippingille, Edward V., Detroit, Mich., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,736,132; Nov. 19.
- Rippl, Charles H., East Cleveland, assignor to The Clark Controller Company, Cleveland, Ohio. Magnetic switch. 1,730,688; Oct. 8.
- Rippl, Francis J. (See Fagan, J. T., Rippl, and Malloy.)
- Rippon, Francis F. C., New York, N. Y. Card-selector mechanism. 1,739,651; Dec. 17.
- Rip Van Winkle Wall Bed Company. (See Sinclair, Neil, assignor.)
- Risberg, Johannes V. M., Sodertelje, Sweden. Refrigerating device. 1,707,319; Apr. 2.
- Risdon, Fayette P., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Fractionating apparatus. 1,711,656; May 7.
- Riser, Sarah, Philadelphia, Pa. Pair of suspenders. Des. 78,225; Apr. 9.
- Risher, James F., Bamberg, S. C. Submarine escaping apparatus. 1,721,039; July 16.
- Rising, Walter H., Painted Post, assignor to Corning Glass Works, Corning, N. Y. Heat-absorbing borosilicate glass and making the same. 1,737,685; Dec. 3.
- Rising, Walter H., Painted Post, assignor to Corning Glass Works, Corning, N. Y. Producing heat-absorbing glasses and batches therefor. 1,737,686; Dec. 3.
- Risk, George A., Brooklyn, assignor of one-half to A. Schlosser, New York, N. Y. Fountain pen. 1,706,751; Mar. 26.
- Risley, Elton, Ventnor City, N. J. Torsional vibration dampener. 1,716,284; June 4.
- Risse, Felix, and E. Fischer, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preserving difficultly-soluble dyestuffs in a state of fine division and the resulting composition. 1,719,944; July 9.
- Risser, Ross E. (See Harks, Walter M., assignor.)
- Risser, Ross E., assignor to Catron Manufacturing Company, Bonham, Tex. Visible unit-measuring liquid dispenser. 1,703,363; Feb. 26.
- Risser, Ross E., assignor to Southwest Pump Company, Bonham, Tex. Display device. 1,738,264; Dec. 3.
- Rissmann, Paul, assignor to Premier Cushion Spring Company, Detroit, Mich. Cushion construction. 1,725,479; Aug. 20.
- Rissmann, Paul, assignor to Premier Cushion Spring Company, Detroit, Mich. Cushion frame. 1,725,480; Aug. 20.
- Rist, David A. V., Oulton Broad, Norfolk, England. Manufacturing embossed or intaglio name and number plates. 1,727,520; Sept. 10.
- Ristow, Herbert H., La Crosse, Wis. Game apparatus. 1,735,794; Nov. 12.
- Ritchie, Beatrice, and E. McGrew, New York, N. Y. Figure toy. 1,721,091; July 16.
- Ritchie, Charles F. (See Gale, W. A., and Ritchie.)
- Ritchie, Charles F., and W. A. Gale, Trona, Calif., assignors, by mesne assignments, to American Potash & Chemical Corporation, New York, N. Y. Refining borax. 1,724,420; Aug. 13.
- Ritchie, Charles F., and W. A. Gale, Trona, Calif., assignors, by mesne assignments, to American Potash & Chemical Corporation, New York, N. Y. Refining crude borax. 1,739,091; Dec. 10.
- Ritchie, George B., Glasgow, Scotland. Container for surgeons' ligatures. 1,718,078; June 18.
- Ritchie, Harry C., Liverpool, England. Reenforced-concrete structure. 1,738,614; Dec. 10.
- Ritchie, Harry R., Springfield, assignor to A. W. Holbrook, Inc., Palmer, Mass. Rotary siphon device for steam drums. 1,715,677; June 4.
- Ritchie, John R., Minneapolis, assignor of one-half to H. C. Hirschy, Duluth, Minn. Clothes wringer. 1,713,556; May 21.
- Ritchie, W. C., & Company. (See Neely, Albert E., assignor.)
- Ritchie, William, assignor to Weedon Manufacturing Co., New Bedford, Mass. Toy steam engine. 1,735,057; Nov. 12.
- Ritenour, Earl E., Alliance, Nebr. Railway-wheel pilot. 1,700,645; Jan. 29.
- Ritenour, Earl E., Alliance, Nebr. Railway wheel pilot. 1,742,148; Dec. 31.
- Riter, William D., et al., trustees. (See Gage, C. H., and Searles, assignors.)
- Rithner, Henry, Wellsburg, W. Va. Candle tumbler or similar article. Des. 80,187; Dec. 24.
- Ritholz, Benjamin D., assignor to National Watch & Jewelry Co., Chicago, Ill. Eye-testing device. 1,697,205; Jan. 1.
- Ritholz, Benjamin D., assignor to National Watch & Jewelry Co., Chicago, Ill. Eye-testing device. 1,712,847; May 14.
- Ritholz, Benjamin D., assignor to National Watch & Jewelry Co., Chicago, Ill. Eye-testing device. 1,727,411; Sept. 10.
- Ritsche, Theodore, Eden Valley, Minn. Household bin. 1,716,242; June 4.
- Rittenhouse, George W., and H. P. Smith, Seattle, Wash. Bag-dispensing cabinet. 1,719,451; July 2.
- Rittenhouse, Walter, and W. H. Sweetland, San Diego, Calif. Inclosure for chairs, beds, and the like for taking sun baths. 1,733,756; Oct. 29.
- Ritter, Alois A. (See Sand, S., and Ritter.)
- Ritter, Alois A., assignor to Hartmann Trunk Company, Racine, Wis. Textile fabric. Des. 78,481; May 7.
- Ritter, Alois A., assignor to Hartmann Trunk Company, Racine, Wis. Textile fabric. Des. 79,387; Sept. 10.
- Ritter, Curt, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 80,089; Dec. 10.
- Ritter Dental Manufacturing Company. (See May, Adam J., assignor.)
- Ritter Dental Manufacturing Co. (See Strauchen, David M., assignor.)
- Ritter Dental Mfg. Co. Inc. (See May, Adam J., assignor.)
- Ritter, Frank M., assignor of three-fourths to J. V. Hutchins, Washington, D. C. Cutting reel for lawn mowers. 1,741,376; Dec. 31.
- Ritter, George, Woodbridge, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Roof covering. 1,737,977; Dec. 3.
- Ritter, George F., assignor to The Tillotson Manufacturing Company, Toledo, Ohio. Carburetor. 1,737,095; Nov. 26.
- Ritter, Harriet, Seattle, Wash. Adjustable bedclothes support. 1,718,665; June 25.
- Ritter, John J., assignor to The W. B. Marvin Manufacturing Company, Urbana, Ohio. Window screen. 1,719,236; July 2.
- Ritter, Joseph A. (See Down, J., and Ritter.)
- Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Separable-section trunk. 1,705,536; Mar. 19.
- Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Trunk-door-locking device. 1,706,822; Mar. 26.
- Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Garment-hanger track. 1,709,811; Apr. 16.
- Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Wardrobe trunk. 1,710,713; Apr. 30.
- Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Hinge construction. 1,710,714; Apr. 30.
- Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Wardrobe case. 1,719,625; July 2.
- Ritter, Julius, jr., assignor to Hartmann Trunk Company, Racine, Wis. Slidable trunk or suitcase partition. 1,734,049; Nov. 5.
- Ritter, Julius, jr., and M. J. Wisby, assignors to Hartmann Trunk Company, Racine, Wis. Trunk drawer lock. 1,729,844; Oct. 1.
- Ritter, Max, Basel, Switzerland. Membrane loud-speaker for radio apparatus, gramophones, and the like. 1,706,323; Mar. 19.



- Ritter, Paul A., assignor to McIntosh & Seymour Corporation, Auburn, N. Y. Diesel engine. 1,722,707; July 30.
- Ritter, Paul N., et al. (See Michailovsky, Nicholas M., assignor.)
- Ritterson, Henry C., Jersey City, N. J. Device for fastening doors, windows, and the like. 1,722,355; July 30.
- Ritz, Carl. (See Kuhl, L., and Ritz.)
- Ritz Woller, Oliver C., Chicago, Ill. Combined lamp and license-plate holder. 1,698,562; Jan. 8.
- Ritz Woller, Oliver C., Chicago, Ill. Combination ash tray and cigarette snuffer. 1,710,957; Apr. 30.
- Ritz Woller, Oliver C., Chicago, Ill. Bracket. 1,716,940; June 11.
- Ritz Woller, Oliver C., Chicago, Ill. Radiator-cap lock. 1,730,710; Oct. 8.
- Rival, Théophile, Ghent, Belgium. Weighing machine. 1,718,007; June 18.
- Rivard, Albert, assignor of thirty-seven and one-half per cent to G. Rivard and twenty-five per cent to R. Lanthier, Ottawa, Ontario, Canada. Iceless refrigerator. 1,728,364; Sept. 17.
- Rivard, Gaston, et al. (See Rivard, Albert, assignor.)
- Rivas, Liborio E., Santa Rita, N. Mex. Key holder. 1,718,433; June 25.
- Rivels, Morris M., Philadelphia, Pa. Making cut-steel ornaments. 1,737,333; Nov. 26.
- Rivera, Marcelino, New York, N. Y. Combination trap and circuit closer for can-seaming machines. 1,736,092; Nov. 19.
- Rivers, Hector O., Essendon, near Melbourne, Victoria, Australia. Door lock. 1,705,376; Mar. 12.
- Rivet-O Manufacturing Company. (See Harris, Carl C., assignor.)
- Rivett Lathe and Grinder Corporation. (See Blanchard, F. C., and Ross, assignors.)
- Riviere, Marie-Louis, Paris, France. Folding safety razor. 1,720,440; July 9.
- Rivinius, Theodore, Elgin, N. Dak. Waste elevator. 1,735,585; Nov. 12.
- Rivkin, Menahem, Philadelphia, Pa. Advertising sign. 1,720,441; July 9.
- Rivkin, Menahem, Philadelphia, Pa. Spelling board. 1,728,805; Sept. 17.
- Rivkin, Menahem, Philadelphia, Pa. Integral wheel and axle. 1,738,393; Dec. 3.
- Rivkin, Morris I., Philadelphia, Pa. Bathing and gymnasium suit. 1,701,933; Feb. 12.
- Rivoche, Eugene. (See Gherassimoff, Nicolas, assignor.)
- Riza, Will E., Nemo, Tex. Cotton harvester. 1,717,409; June 18.
- Rizzo, Domenico, Albion, N. Y. Caster. 1,719,033; July 2.
- Roach-Appleton Manufacturing Company. (See Appleton, Ernst G., assignor.)
- Roach-Appleton Mfg. Company. (See Newman, C., and Appleton, assignors.)
- Roach-Appleton Manufacturing Company. (See Williams, C., and Appleton, assignors.)
- Roach, Lindsay G., Fredericksburg, Va. Bottle refrigerator. 1,721,232; July 16.
- Roadcap, Jacob W., Richmond, Mo. Gate latch. 1,718,079; June 18.
- Roadenbaugh, Belton N., Newton, Kans. Loose-grain receiver for binders. 1,723,490; Aug. 6.
- Roadless Traction Limited. (See Penn, Oscar S., assignor.)
- Road Marks Limited. (See Nater, R., and Brice, assignors.)
- Roark, Robert H., assignor to The Perfection Ice Scoring Machine Company, Waco, Tex. Scoring ice blocks by fluid pressure. 1,729,186; Sept. 24.
- Roark, Robert H., assignor to The Perfection Ice Scoring Machine Company, Waco, Tex. Scoring ice by hydraulic and fluid pressure. 1,731,175; Oct. 8.
- Roaten, James T., assignor of seventy per cent to C. R. Neher, Sheridan, Wyo. Fastener for the hoods of automobiles. 1,714,923; May 28.
- Robb, Arthur A., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cushion tire with arched base. 1,707,815; Apr. 2.
- Robb, Andrew, assignor to The American Hardware Corporation, New Britain, Conn. Doorknob. 1,711,209; Apr. 30.
- Robb, David W., Amherst, Nova Scotia, Canada. Boiler. 1,698,563; Jan. 8.
- Robb, James R., Oilton, Okla. Well pumping apparatus. 1,712,049; May 7.
- Robb, John F., Cleveland Heights, Ohio. Tie removing and replacing machine. 1,732,568; Oct. 22.
- Robb, John F., Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis. Spreading attachment for concrete-paving machines. 1,717,734; June 18.
- Robb, John F., Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis. Concrete-spreading machine. 1,724,043; Aug. 13.
- Robb, John F., Cleveland, Ohio, assignor to Koehring Company, Milwaukee, Wis. Mixing machine control-signaling indicator. 1,736,751; Nov. 19.
- Robb, John G. (See Franklin, C. S., Plcken, and Robb.)
- Robb, Lewis J., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Drier. 1,706,708; Mar. 26.
- Robb, Lewis J., assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Car unloader. 1,732,537; Oct. 22.
- Robb, Stephen. (See Nagy, Sandor, assignor.)
- Robb, William. (See Rounsberg, A., and Robb.)
- Robb, William J., Milwaukee, Wis. Electric igniter. 1,704,763; Mar. 12.
- Robbins, Azor D., assignor to International Motor Company, New York, N. Y. Dual rear-axle drive. 1,711,128; Apr. 30.
- Robbins, Christopher C., Portland, Ore. Fastener. 1,704,373; Mar. 5.
- Robbins, Guy F., Portland, Ore. Spotlight and rear illumination for automobiles. 1,730,527; Oct. 8.
- Robbins, Henry W., Harlingen, Tex. Cushion vehicle wheel. 1,697,735; Jan. 1.
- Robbins, James E., Lincoln, Ill. Apparatus for supplying steam to steam tables. 1,699,811; Jan. 22.
- Robbins, John, San Francisco, Calif. Sanding machine. 1,705,878; Mar. 19.
- Robbins, John L., Edgewater, Colo. Incubator. 1,723,980; Sept. 24.
- Robbins, John L., Edgewater, Colo. Incubator. 1,732,280; Oct. 22.
- Robbins, Lawrence E., Ellsworth, Me. Gyroplane. 1,722,708; July 30.
- Robbins & Myers, Inc. (See Baker, Edgar N., assignor.)
- Robbins & Myers, Inc. (See Branson, W. J., and Wright, assignors.)
- Robbins & Myers, Inc. (See Meyer, Emil A., assignor.)
- Robbins & Myers, Inc. (See Ringwald, Clarence, assignor.)
- Robbins & Myers, Inc. (See Spahr, Martin L., assignor.)
- Robbins & Myers, Inc. (See Wright, Edwin M., assignor.)
- Robbins, Percy A., Highland Park, Ill. Acoustic transformer. 1,704,840; Mar. 12.
- Robbins, Percy A., Highland Park, Ill. Acoustic transformer. 1,708,487; Apr. 9.
- Robbins, Percy A., Highland Park, Ill. Acoustic transformer. 1,730,528; Oct. 8.
- Robbins, Percy A., Highland Park, Ill. Sound-absorbent shield for walls of studios and the like. 1,730,529; Oct. 8.
- Robbins, Percy A., Highland Park, Ill. Acoustic transformer. 1,730,530; Oct. 8.
- Robbins, Percy A., Highland Park, Ill. Acoustic transformer. 1,730,531; Oct. 8.
- Robbins, Percy A., Highland Park, Ill. Acoustic transformer. 1,730,532; Oct. 8.
- Robbins, Percy A., Highland Park, Ill. Sound-translating chamber. 1,730,826; Oct. 8.
- Robbins, Percy A., Highland Park, Ill. Fruit grader. 1,735,795; Nov. 12.
- Robbins, Percy A., Highland Park, Ill. Grader. 1,735,796; Nov. 12.
- Robbins, William H., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool abrasive fabric. 1,698,511; Jan. 8.
- Robbins, William H., Springfield, assignor to The Williams Company, London, Ohio. Steel wool. 1,698,512; Jan. 8.
- Robbins, William H., Springfield, assignor to The Williams Company, London, Ohio. Steel-wool-removing drum. 1,703,247; Feb. 26.
- Robbins, William H., Springfield, and H. Converse, assignors to The Williams Company, London, Ohio. Steel-wool machine. 1,725,305; Aug. 20.
- Robbins, William H., Springfield, and E. E. Kimberley, Columbus, assignors to The Williams Company, London, Ohio. Steel-wool pad. 1,702,365; Feb. 19.
- Robbins, William H., Springfield, and E. E. Kimberley, Columbus, assignors to The Williams Company, London, Ohio. Steel-wool-pad making. 1,715,389; June 4.
- Robbins, William H., Springfield, and W. C. Lohman, Dayton, assignors to The Williams Company, London, Ohio. Steel-wool article for cleansing and abrading purposes. 1,697,964; Jan. 8.
- Robe, Walten B., Norfolk, Va. Automobile spring construction. 1,699,312; Jan. 15.
- Robe, Walten B., Norfolk, Va. Automobile spring construction. 1,712,050; May 7.
- Robe, Walten B., Towson, assignor to Rekeen Tool Company, Inc., Baltimore, Md. Process and apparatus for recutting or sharpening all tools having numerous fine cutting edges. 1,721,414; July 16.
- Röber, Constantin F., assignor to the firm "Universelle" Cigarettenmaschinen-Fabrik, J. C. Müller & Co., Dresden, Germany. Transferring means for cigarette counter-rolling machines. 1,738,615; Dec. 10.
- Röber, Ewald, Düsseldorf, Germany. Rolling mill of the Pilger type. 1,724,314; Aug. 13.
- Roberge, Israel, Pawtucket, R. I. Window-screen fixture. 1,740,960; Dec. 24.
- Roberson, Bill E., Seattle, Wash. Logging raft. 1,724,422; Aug. 13.
- Roberson, Harvey D. (See Jones, G. W., and Roberson.)
- Robert, Frank F., Springfield, Mass. Lock. 1,705,340; Mar. 12.
- Robert, Florence H. (See Robert, Fred T., assignor.)
- Robert, Fred T., assignor of one-half to F. H. Robert, New York, N. Y. Liquid-dispensing machine. 1,738,319; Dec. 3.
- Robert Bros. (See Lofman, Charles, assignor.)
- Roberts, Alvin L., Philadelphia, Pa. Brake mechanism. 1,707,876; Apr. 2.
- Roberts, Alvin L., Philadelphia, Pa. Brake mechanism. 1,707,877; Apr. 2.
- Roberts, Alvin L., Philadelphia, Pa. Power-brake mechanism. 1,734,403; Nov. 5.
- Roberts, Bell M. (See Smith, Gustavus A., assignor.)
- Roberts Brass Manufacturing Company. (See Plaut, Antoine P., assignor.)



- Roberts, Charles, New York, N. Y., assignor to H. Bohn, Dayton, Ohio. Clothes-washing machine. 1,718,981; July 2.
- Roberts, Charles B., Brooklyn, N. Y. Geographical educator. 1,739,861; Dec. 17.
- Roberts, Charles H. (See Eisiminger, J. W., and Roberts.)
- Roberts, Clarence A., Lakewood, Ohio. Pump. 1,740,523; Dec. 24.
- Roberts, Clifford, Reigate, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel assembly. 1,715,626; June 4.
- Roberts, Clifford, Reigate, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Tread member for boots and shoes and making the same. 1,727,412; Sept. 10.
- Roberts, Clifford, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making heels. 1,717,533; June 18.
- Roberts, Clifford, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Cushion heel. 1,722,309; July 30.
- Roberts, Clifford, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel lift for boots or shoes. 1,741,037; Dec. 24.
- Roberts, Clifford A., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Terminal for conductors. 1,706,412; Mar. 26.
- Roberts Cone Manufacturing Company. (See Roberts, Webster M., assignor.)
- Roberts, Constance C., Mosinee, Wis. Fish lure. 1,698,735; Jan. 15.
- Roberts, Constance C., Mosinee, Wis. Fishing-tackle attachment. 1,698,736; Jan. 15.
- Roberts, Daniel, Bootle, Liverpool, England. Ship's boat chock or support. 1,714,437; May 21.
- Roberts, Donald, Battle Creek, Mich. Combination heating-agent container and wet-compress holder. 1,723,373; Aug. 6.
- Roberts, Donald E., Milwaukee, Wis. Applicator for conducting ultra-violet rays. 1,733,239; Oct. 29.
- Roberts, Eugene, New York, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal apparatus. 1,719,132; July 2.
- Roberts, Eugene, New York, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal apparatus. 1,721,491; July 16.
- Roberts, Eugene, New York, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal machine. 1,734,746; Nov. 5.
- Roberts, Francis C., Los Angeles, Calif. Coin-controlled vending machine. 1,741,000; Dec. 24.
- Roberts, Fred T., jr., Montclair, N. J. Jack attachment for automobiles. 1,697,694; Jan. 1.
- Roberts, George G., Ballston, Va., assignor to Virginia Plate Glass Corporation, Washington, D. C. Apparatus for drawing sheet glass. 1,700,420; Jan. 29.
- Roberts, George G., Arlington County, Va., assignor to Virginia Plate Glass Corporation, Washington, D. C. Sheet-glass-drawing apparatus. 1,722,445; July 30.
- Roberts, George H., et al. (See Meyer, Ferd H., assignor.)
- Roberts, George V., jr., Port Byron, N. Y. Machine for mixing dry and liquid materials. 1,720,573; July 9.
- Roberts-Gordon Appliance Corporation. (See Roberts, Millard J., assignor.)
- Roberts, Harold P. (See Bartram, T. W., and Roberts.)
- Roberts, Harold P., and H. A. Merkle, Nitro, W. Va., assignors to The Rubber Service Laboratories Co., Akron, Ohio. Manufacture of aryl thiazole compounds. 1,712,968; May 14.
- Roberts, Henry P., Roxbury, assignor to Massachusetts Steel Products, Inc., Boston, Mass. Arch and heel support. 1,708,683; Apr. 9.
- Roberts, Henry P., Brooklyn, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Record-resurfacing machine. 1,726,588; Sept. 3.
- Roberts, Henry T., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Dispensing container. 1,697,206; Jan. 1.
- Roberts, Horace L., Mount Vernon, N. Y. Shoe-polishing device. 1,718,761; June 25.
- Roberts, Hugo, Habana, Cuba. Fumigating apparatus. 1,742,149; Dec. 31.
- Roberts, Jack C., Ceres, Calif. Transmission for motor boats. 1,708,329; Apr. 9.
- Roberts, Jacob M., Norfolk, Va. Signaling apparatus. 1,698,737; Jan. 15.
- Roberts, Jacob M., Norfolk, Va. Cigar and cigarette holder. 1,731,475; Oct. 15.
- Roberts, James A., Ashland, Ohio. Highway guard. 1,702,574; Feb. 19.
- Roberts, James A., Washington, D. C. Sash guide. 1,705,587; Mar. 19.
- Roberts, John, assignor, by mesne assignments, to The New Traction Company Limited, London, England. Vehicle for service on roads and rails. 1,713,919; May 21.
- Roberts, John F. (See Holden, R. M., and Roberts.)
- Roberts, John F., Portland, Oreg. Box hook. 1,738,844; Dec. 10.
- Roberts, John W., Chicago Ill. Hair clippers. 1,716,465; June 11.
- Roberts, Joseph H., New York, N. Y., assignor of one-half to F. W. Olin, East Alton, Ill. Method of and apparatus for the recovery of explosives from shells. 1,706,938; Mar. 26.
- Roberts, Joseph H. T., London, England. Electrotherapeutic apparatus. 1,728,080; Sept. 10.
- Roberts, Laurence S., New Kensington, Pa. Lock cap for containers. 1,707,320; Apr. 2.
- Roberts, Leland C., Towaco, N. J., assignor to American Telephone and Telegraph Company. Selective telegraph system. 1,700,180; Jan. 29.
- Roberts, Leland C., West Orange, N. J., assignor to American Telephone and Telegraph Company. Attenuation compensator. 1,717,410; June 18.
- Roberts, Louis G. (See Stanton, E. J., and Roberts.)
- Roberts, Louis T. (See Thomas, John H., assignor.)
- Roberts & Mander Stove Company. (See Antrim, William D., assignor.)
- Roberts, Millard J., assignor to Roberts-Gordon Appliance Corporation, Buffalo, N. Y. Gas burner and the like. 1,725,304; Aug. 20.
- Roberts, Montague H. (See Martin, F. W., and Roberts.)
- Roberts, Montague H. (See Tolman, R. C., De Baufre, Davis, and Roberts.)
- Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company. Power reverse gear. 1,712,120; May 7.
- Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company. Booster throttle and control. 1,714,626; May 28.
- Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company. Steam engine. 1,731,440; Oct. 15.
- Roberts, Nathaniel, Elgin, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Butter-tub cover. 1,708,280; Apr. 9.
- Roberts, Oren F., Kansas City, Mo. Liquid-measuring apparatus. 1,731,795; Oct. 15.
- Roberts, Ovid E., jr., and H. H. Sheets, assignors to American Formblock System Company, Washington, D. C. Building construction. 1,719,782; July 2.
- Roberts, Patrick, New York, N. Y. Vehicle jack. 1,740,268; Dec. 17.
- Roberts, Percy W., Fitzroy, assignor of three-fifths to R. C. H. Sanders and L. A. Brown, New Plymouth, New Zealand, and one-tenth to D. G. Sanders, Johannesburg, Transvaal, South Africa. Extension ladder. 1,701,123; Feb. 5.
- Roberts, Ralph, London, England. Harness. 1,700,718; Jan. 29.
- Roberts, Ralph S., and C. E. Wexelberg, assignors to Briggs Manufacturing Company, Detroit, Mich. Automobile body front unit. Des. 78,655; May 28.
- Roberts, Ralph S., and C. E. Wexelberg, assignors to Briggs Manufacturing Company, Detroit, Mich. Front-end construction. 1,719,133; July 2.
- Roberts, Rees R. (See Born, William F., assignor.)
- Roberts and Schaefer Company. (See Arms, Ray W., assignor.)
- Roberts and Schaefer Company. (See Barrett, Edward E., assignor.)
- Roberts and Schaefer Company. (See Flowers, Clarence O., assignor.)
- Roberts and Schaefer Company. (See Ross, Clyde P., assignor.)
- Roberts, Sidney G., Chattanooga, Tenn. Engine. 1,700,077; Jan. 22.
- Roberts, Thomas, assignor of one-half to J. E. Dubé, Haverhill, Mass. Sewing-machine attachment. 1,706,633; Mar. 26.
- Roberts, Thomas H., assignor to J. W. Kelch, Detroit, Mich. Register construction. 1,718,380; June 25.
- Roberts, Thomas H., and J. R. Holmes, assignors to J. W. Kelch, Detroit, Mich. Heater for automobiles. 1,700,516; Jan. 29.
- Roberts, Webster M., St. Joseph, Mo., assignor to McLaren-Consolidated Cone Corporation. Machine for making ice-cream cones. 1,708,895; Apr. 9.
- Roberts, Webster M., St. Joseph, Mo., assignor to Roberts Cone Manufacturing Company. Ice-cream-cone machine. 1,708,899; Apr. 9.
- Roberts, William C., assignor to Zinke-Roberts Co., Chicago, Ill. Display unit and support. 1,738,208; Dec. 3.
- Roberts, William E. (See Dabrohua, C. M., and Roberts.)
- Roberts, William T. B. (See Gouldbourn, J., and Roberts.)
- Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Grading machine. 1,703,955; Mar. 5.
- Robertshaw, Frederick C., Pittsburgh, Pa., assignor to Acheson Manufacturing Company. Surface-flushing nozzle. 1,699,210; Jan. 15.
- Robertshaw, Frederick W., Pittsburgh, and G. A. Robertshaw, Greensburg, assignors to Robertshaw Thermostat Company, Youngwood, Pa. Controlling valve and system embodying the same. 1,704,487; Mar. 5.
- Robertshaw, George A. (See Robertshaw, Frederick W. and G. A.)
- Robertshaw, George A., Greensburg, Pa. Thermostatic control device. 1,715,950; June 4.
- Robertshaw, George A., Greensburg, Pa. Thermostat. 1,732,538; Oct. 22.
- Robertshaw Thermostat Company. (See Robertshaw, Frederick W. and G. A., assignors.)
- Robertson, Alexander D., et al. (See Wheelock, Dickinson O., assignor.)
- Robertson Art Tile Company. (See Anderson, R. E., and Forst, assignors.)
- Robertson Art Tile Company. (See Clifford, Charles W., assignor.)



- Robertson, David, assignor to Vacuum Products (N. Z.) Limited, Wellington, New Zealand. Bottle evacuating and sealing machines. 1,703,457; Feb. 26.
- Robertson, Dolphus E., Paragould, Ark. Camera attachment. 1,736,220; Nov. 19.
- Robertson, Edwin A., Syracuse, Ind., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Combined sheet-metal tank and supporting base. 1,701,729; Feb. 12.
- Robertson, Edwin A., Lake Wawasee, Ind., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Water-softening apparatus. 1,704,925; Mar. 12.
- Robertson, Edwin A., Lake Wawasee, assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind. Switch mechanism. 1,722,709; July 30.
- Robertson, Frank P., Sparks, Nev. Valve-cut-off safety apparatus. 1,720,379; July 9.
- Robertson, Frederick D. S., Toronto, Ontario, Canada, assignor, by mesne assignments, to F. G. Clark. Metalurgical apparatus and process. 1,702,575; Feb. 19.
- Robertson, George. (See Robertson, J. B. and G.)
- Robertson, George G., South Shields, England. Hand paddle as an aid to swimming. 1,715,571; June 4.
- Robertson, H. H., Company. (See Young, James H., assignor.)
- Robertson, Harry M., Cleveland, Ohio. Apparatus for treating materials. 1,706,128; Mar. 19.
- Robertson, Harry M., Cleveland, Ohio. Kiln. 1,737,540; Nov. 26.
- Robertson, Homer E., Winnetka, Ill., assignor to Goetz Brass Company. Waste fixture. 1,713,300; May 14.
- Robertson, James B., Paterson, and G. Robertson, Ridgewood, assignors to The Paratex Corporation, Paterson, N. J. Bat-forming machine. 1,733,170; Oct. 29.
- Robertson, Joseph H., Del Ray, Va. Micrometer device. 1,725,673; Aug. 20.
- Robertson, Kenneth J. R., and A. Fowler, assignors to Carrier Engineering Company Limited, London, England. Drying oven. 1,742,099; Dec. 31.
- Robertson, Laurence, Toledo, Ohio. Punch-press feeder. 1,719,195; July 2.
- Robertson, Malva M., Kansas City, Mo. Oil-well regulator. 1,721,884; July 23.
- Robertson, Oscar L. (See Schur, M. O., and Robertson.)
- Robertson, Robert R., Chicago, Ill., assignor to Highway Steel Products Co. Contraction road strip. 1,741,583; Dec. 31.
- Robertson, William, Chicago, Ill. Cinder pit. 1,711,809; May 7.
- Robertson, William B., Shanghai, China, assignor to Standard Oil Company of New York, New York, N. Y. Apparatus for heating solder. 1,730,591; Oct. 8.
- Robertson, William H. (See Fuller, F. L., and Robertson.)
- Robertson, William V., Weehawken, N. J. Shears. 1,710,950; Apr. 30.
- Robertson, William W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Slack-take-up device for flexible cable of Wilton or Axminster looms. 1,724,315; Aug. 13.
- Robertson, William W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Axminster weave. 1,739,181; Dec. 10.
- Robeson-Rochester Corporation. (See Cross, Frederick J., assignor.)
- Robeson-Rochester Corporation. (See Schott, Howard H., assignor.)
- Robichaud, Joseph C., Woodford, Me. Window ventilator. 1,716,324; June 4.
- Robimarga, Luigi, Milan, Italy. Device insuring in a continuous and automatic manner the synchronism between a gramophone and a cinematographic projection machine. 1,697,695; Jan. 1.
- Robimarga, Luigi, Milan, Italy. Sound-reproducing machine. 1,713,481; May 14.
- Robin, Marcel A., Port-au-Prince, Haiti, West Indies. Cleaning device for abrading surfaces. 1,707,067; Mar. 26.
- Robins Conveying Belt Co. (See Baldwin, C. K., and Robins, assignors.)
- Robins Conveying Belt Co. (See Pos, M. J., Stadelman, and Fairbairn, assignors.)
- Robins Conveying Belt Company. (See Robins, Thomas, assignor.)
- Robins Conveying Belt Company. (See Von Thaden, H., and Dodge, assignors.)
- Robins, Samuel D. (See Baldwin, C. K., and Robins.)
- Robins, Thomas, New York, N. Y., assignor to Robins Conveying Belt Company, Passaic, N. J. Revolving grizzly. 1,699,718; Jan. 22.
- Robinson, Albert E., assignor to The American Tool Works Company, Cincinnati, Ohio. Feeding means for drilling machines. 1,699,493; Jan. 15.
- Robinson, Arthur H., Lakewood, Ohio. Heating and ventilating apparatus. 1,699,810; Jan. 22.
- Robinson, Betty F., New York, N. Y. Bandeau. 1,728,188; Sept. 10.
- Robinson, Calvin C. (See O'Brien, John J., assignor.)
- Robinson, Charles A., Goleta, Calif. Clothes hanger or the like. 1,737,096; Nov. 26.
- Robinson, Charles W., Hamilton, Ontario, Canada, and W. C. Dwyer, Auburn, N. Y., assignors to International Harvester Company, Chicago, Ill. Harrow. 1,729,087; Sept. 24.
- Robinson, Clarence M., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Spring adjuster. 1,711,692; May 7.
- Robinson, Dighton A., Minneapolis, Minn., assignor, by mesne assignments, to The Central Ohio Steel Products Company, Galion, Ohio. Gravity-dumping truck body. Re17,497; Nov. 19.
- Robinson, Dwight P., & Company. (See Philip, Robert A., assignor.)
- Robinson, Edward A., Montreal, Quebec, Canada. Guided railway connector head. 1,715,787; June 4.
- Robinson, Edward A., assignor of one-half to E. E. Workman, Montreal, Quebec, Canada, and one-half to himself. Adjustable head support for train connectors. 1,715,786; June 4.
- Robinson, Edward W. (See Fulenwider, James and H., Robinson, and Norris.)
- Robinson, Edward W. (See Fulenwider, Jesse and H., Robinson, and Norris.)
- Robinson, Erdis G., Columbus, Ohio. Lens-beveling attachment for lens-edge-grinding machines. 1,740,551; Dec. 24.
- Robinson, Ernest Y. (See Brown, W. J. and Robinson.)
- Robinson, Ernest Y. (See Brown, W. J., Hubbard, Robinson, and Burch.)
- Robinson, Ernest Y., Manchester, England. High-frequency signaling system. 1,733,824; Oct. 29.
- Robinson, Ernest Y., Manchester, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Thermionic device. 1,705,377; Mar. 12.
- Robinson, Ernest Y., Manchester, England, assignor to Associated Electrical Industries Limited. Vacuum tube. 1,739,420; Dec. 10.
- Robinson, Ernest Y., Withington, Manchester, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Vacuum electric tube. 1,712,402; May 7.
- Robinson, Ernest Y., Withington, Manchester, England, assignor to Associated Electrical Industries Limited. Vacuum-electric-tube apparatus. 1,720,442; July 9.
- Robinson, Ernest Y., Withington, Manchester, England, assignor to Associated Electrical Industries Limited. Vacuum-electric-tube device. 1,720,443; July 9.
- Robinson, Ernest Y., Lymm, and E. J. E. Hubbard, Hortham, England, assignors to Metropolitan-Vickers Electrical Company Limited. Anode of vacuum-electric-tube devices. 1,716,151; June 4.
- Robinson, Francis J., Richmond Hill, Ontario, Canada. Leather-glazing machine. 1,714,243; May 21.
- Robinson, Frederic W. (See Anderson, W. T., jr., and Robinson.)
- Robinson, Frederic W., and W. J. Lemann, assignors to Hanovia Chemical and Mfg. Co., Newark, N. J. Therapeutic lamp. 1,704,516; Mar. 5.
- Robinson, George A., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Automatic filling and weighing machine. 1,739,882; Dec. 17.
- Robinson, George L., assignor to Blaw-Knox Company, Pittsburgh, Pa. Fuel nozzle. 1,707,772; Apr. 2.
- Robinson, Garden, assignor of one-half to W. Shattuck, Grant, Mich. Hospital bed. 1,706,545; Mar. 26.
- Robinson, Guy C., Douglaston, and C. G. Harrel, Jamaica, N. Y., assignors to Bakeries Service Corporation, Wilmington, Del. Method and apparatus for indicating the condition of food substances. 1,699,922; Jan. 22.
- Robinson, Harold T., Market Drayton, England, assignor to John Davison Inc., New York, N. Y. Plate or similar article. Des. 73,697; June 4.
- Robinson, Harold T., Market Drayton, England, assignor to John Davison Inc., New York, N. Y. Covered dish or similar article. Des. 73,987; July 16.
- Robinson, Harold T., Market Drayton, England, assignor to John Davison Inc., New York, N. Y. Plate or similar article. Des. 79,668; Oct. 22.
- Robinson, Harold T., Market Drayton, England, assignor to John Davison Inc., New York, N. Y. Plate or similar article. Des. 79,669; Oct. 22.
- Robinson, Henry D., Sorrento, Calif. Metallic railway tie. 1,718,306; June 25.
- Robinson, Herand, assignor to The Piercy Company, Wellington, Ohio. Converting foodstuffs for cattle. 1,725,969; Aug. 27.
- Robinson, Herbert W. (See Parkes, Deric W., assignor.)
- Robinson, Holton D., New York, N. Y. Cable-wrapping machine. 1,725,540; Aug. 20.
- Robinson, Hubert C., Dallas, Tex. Hot-box oil burner. 1,701,484; Feb. 5.
- Robinson, James M., Sioux City, Iowa. Process and apparatus for cleaning radiators. 1,701,824; Feb. 12.
- Robinson, James, & Sons (Romiley) Limited. (See Sydney, Ernest, assignor.)
- Robinson, James W., assignor of one-fourth to A. A. Merry and one-fourth to R. W. White, Rochester, N. Y. Machine for drying photographic prints. 1,741,882; Dec. 31.
- Robinson, John T., Company. (See Gooding, George E., assignor.)
- Robinson, John T., Company. (See Robinson, J. T., and Gooding, assignors.)
- Robinson, John T., and G. E. Gooding, assignors to J. T. Robinson Company, Boston, Mass. Box-covering machine. 1,727,562; Sept. 10.
- Robinson, John W., Lowell, Mass. Garment hanger. 1,723,079; Aug. 6.
- Robinson, John W., Lowell, Mass. Garment hanger. 1,723,080; Aug. 6.



- Robinson, John W., Lowell, Mass. Sidewalk, roadway, and the like. 1,740,119; Dec. 17.
- Robinson, Joseph. (See Baldwin, George E., assignor.)
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,706,752; Mar. 26.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,709,156; Apr. 16.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,710,458; Apr. 23.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,714,627; May 28.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,714,628; May 28.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,720,257; July 9.
- Robinson, Joseph, New York, N. Y. Electrothermochemical appliance for treating the scalp. 1,731,504; Oct. 15.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,732,539; Oct. 22.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,735,130; Nov. 12.
- Robinson, Joseph, New York city, N. Y. Automatic train-pipe coupling. 1,737,687; Dec. 3.
- Robinson, Joseph, New York, N. Y. Automatic train-pipe connector. 1,738,484; Dec. 3.
- Robinson, Joseph V., New York, N. Y. Automatic train-pipe connector. 1,733,206; Oct. 29.
- Robinson, Lawrence D., and F. C. Small, Wollaston, Mass.; said Robinson assignor to said Small. Apparatus for handling laundry. 1,732,210; Oct. 15.
- Robinson, Lee C., et al. (See Rollins, L. P., and Banks, assignors.)
- Robinson, Lewis T., Schenectady, N. Y., assignor to General Electric Company. Apparatus for producing or recording electrical impulses. 1,728,880; Sept. 17.
- Robinson, Lewis T., Silverton, Ore. Brooder. 1,736,625; Nov. 19.
- Robinson, Lula H., Dallas, Tex. Adjustable hanger. 1,732,950; Oct. 22.
- Robinson, Luther M., Blackwell, Okla. Apparatus for raising fluids from oil wells. 1,732,617; Oct. 22.
- Robinson, Mark, Waterloo, near Liverpool, England. Steam generator. 1,736,462; Nov. 19.
- Robinson, Mayes R., Pittsburgh, assignor to Robinson Ventilating Company, Zelenople, Pa. Disk fan. 1,722,112; July 23.
- Robinson Packer Company. (See Fry, William W., assignor.)
- Robinson, Patrick H., E. Nielsen, and E. R. Moss, assignors to Hamilton Beach Manufacturing Company, Racine, Wis. Drink mixer. 1,729,966; Oct. 1.
- Robinson, Patrick H., assignor to Hamilton Beach Mfg. Co., Racine, Wis. Vacuum cleaner nozzle adjustment. 1,725,019; Aug. 20.
- Robinson, Percy G., T. Sargent, and G. W. French, assignors to Strachan & Henshaw, Limited, Whitehall, Bristol, England. Delivery device. 1,740,552; Dec. 24.
- Robinson, Raymond D. (See Prowse, F. J., Robinson, Hall, and Fleming.)
- Robinson, Reginald H., and H. Hartman, Corvallis, Ore., dedicated by mesne assignments to the Citizens of the United States. Removal of residual poisons from and the preservation of fruits. 1,708,330; Apr. 9.
- Robinson, Robert M., assignor to Cheatham Electric Switching Device Co., Inc., Louisville, Ky. Automatic trolley switch. 1,703,545; Feb. 26.
- Robinson, Robert M., Fulton, Mo., assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Porcelain root tooth. 1,714,892; May 28.
- Robinson, Robert T. (See Waldon, C. D., Brooks, and Robinson.)
- Robinson, Rochfort W., San Antonio, Tex. Margin regulator for typewriters. 1,712,904; May 14.
- Robinson, Roy M., et al. (See Bradley, James, assignor.)
- Robinson, Sanford K., assignor to K-P-C Company, Chicago, Ill. Preparation of lactic salts. 1,726,768; Sept. 3.
- Robinson Smoke Washer Company. (See Robinson, William W., assignor.)
- Robinson, Thomas, New York, N. Y., assignor to Lancaster Asphalt, Inc. Building material. 1,698,242; Jan. 8.
- Robinson, Thomas, New York, N. Y., assignor to Lancaster Asphalt, Inc. Apparatus for making prepared roofing. 1,716,505; June 11.
- Robinson, Thomas, New York, N. Y., assignor to Lancaster Asphalt, Inc. Method and apparatus for making building products. 1,716,506; June 11.
- Robinson, Thomas, assignor to Lancaster Asphalt, Inc., New York, N. Y. Making plastic compounds. 1,732,281; Oct. 22.
- Robinson, Thomas, Everett Wash., assignor to The Coe Manufacturing Company, Painesville, Ohio. Timing mechanism for veneer trimmers. 1,727,307; Sept. 3.
- Robinson, Thomas E., Tulsa, Okla. Golf-bag stand. 1,722,341; July 30.
- Robinson, Thomas L., Valparaiso, Ind. Cage for antifriction bearings. 1,712,231; May 7.
- Robinson Ventilating Company. (See Robinson, Mayes R., assignor.)
- Robinson, W. E., et al. (See Douglas, Paisley S., assignor.)
- Robinson, Wallace W., Portland, Me. Strap-tightening device. 1,712,584; May 14.
- Robinson, Walter S., jr., Springfield, assignor to Wico Electric Company, West Springfield, Mass. Magneto. 1,734,918; Nov. 5.
- Robinson, William J., Lowell, Mass., assignor, by mesne assignments, to Winchester Repeating Arms Company, New Haven, Conn. Metal tube and making same. 1,715,099; May 28.
- Robinson, William W., Kansas City, Mo., assignor to Robinson Smoke Washer Company. Smoke washer. Re17,363; July 9.
- Robison, Isaac R., Ione, Ore. Bearing-aligning tool. 1,740,836; Dec. 24.
- Robson, John. (See Carey, Robert F., assignor.)
- Robson, John, Waterbury, Conn., assignor to Universal Engineering Corporation, Montreal, Canada. Driving mechanism. 1,711,967; May 7.
- Robson, Robert, Lake Charles, La. Music-leaf turner. 1,705,416; Mar. 12.
- Robson, Stanley, Avonmouth, England. Preparation of sulphate of ammonia. 1,740,837; Dec. 24.
- Roby, Edward B., Troy, assignor to S. and R. Folding Machine Company, Inc., Green Island, New York, N. Y. Driving mechanism. 1,706,901; Mar. 26.
- Rochas, Maurice G. E., assignor to F. L. Bielle and Societe Rochas Fils & Millet, Paris, France. Setting provided with removable stones. 1,712,171; May 7.
- Roche, Clifton R., assignor of one-half to H. A. Brunell, Los Angeles, Calif. Gas engine. 1,731,590; Oct. 15.
- Roche, John, assignor of one-half to W. P. Verdon, Hoboken, N. J. Dimming headlight for motor vehicles. 1,722,310; July 30.
- Roche, John, assignor of one-half to W. P. Verdon, Hoboken, N. J. Dimming headlight for automobiles. 1,722,311; July 30.
- Roche, Michael J., Newton Center, Mass. Safety attachment for presses. 1,714,049; May 21.
- Rochefort, Francois, Paris, France. Two-stroke internal-combustion engine. 1,718,879; June 25.
- Rocheron, Henri F. L. J., Levallois-Perret, France. Windshield for motor vehicles. 1,719,783; July 2.
- Rochester Bridge Company, The. (See Sheehan, William, assignor.)
- Rochester Folding Box Company. (See Bowersock, Wilber E., assignor.)
- Rochester Gas and Electric Company. (See Searle, Robert M., assignor.)
- Rochester Industries, Inc. (See Kidder, Wellington P., assignor.)
- Rochester, Richmond, jr., assignor to Automatic Electric Boiler Co., Chicago, Ill. Heating apparatus. 1,715,512; June 4.
- Rochester, Thomas F., East Aurora, assignors to Korect Air Meter Corporation, Buffalo, N. Y. Separator of liquids from gases. 1,731,061; Oct. 8.
- Rochford, Thomas P., assignor to J. P. Bricker and W. A. Bricker, Seattle, Wash. Rotary pump. 1,716,901; June 11.
- Ročić, Ivan, New York, N. Y. Chair or the like. Des. 77,982; Mar. 12.
- Ročić, Ivan, New York, N. Y. Cabinet or similar article. Des. 79,609; Oct. 15.
- Rock, George L. (See Franks, C. H., and Rock.)
- Rock Island Manufacturing Company. (See Shields, Carl E., assignor.)
- Rock Island Plow Company. (See Kaupe, Lee H., assignor.)
- Rock, Lorena B., Orlando, Fla. Toothbrush holder. 1,711,327; Apr. 30.
- Rocke, John, Bloomington, Ill. Metering device for washing machines. 1,705,735; Mar. 19.
- Rocke, John, Bloomington, Ill. Dolly for washing machines. 1,706,413; Mar. 26.
- Rocke, John, Bloomington, Ill. Agitator. 1,717,065; June 11.
- Rockford Drilling Machine Company. (See Goranson, A. E., and Willene, assignors.)
- Rockford Drilling Machine Company. (See Morris, James J., assignor.)
- Rockford Malleable Iron Works. (See Kosian, Justave C., assignor.)
- Rockhill, Howell C. (See Thomson, S. P., and Rockhill.)
- Rockhoff, Harold C., Two Rivers, Wis. Cigarette-vending machine. 1,731,544; Oct. 15.
- Rockley, George, et al. (See Bennett, Williams, assignor.)
- Rockstroh, Walter, Postelwitz, near Bad Schandau, Germany. Sheet-feeding device with sheet separation by a blast of air. 1,718,581; June 25.
- Rockwell, Byrd C., St. Joseph, Mo. Wall-closure construction. 1,706,546; Mar. 26.
- Rockwell, Edward A., New York, N. Y., assignor to Stewart-Warner Corporation, Chicago, Ill. System of feeding fuel to internal-combustion engines by means of pressure. 1,725,209; Aug. 20.
- Rockwell, Edward A., New York, N. Y., assignor to Stewart-Warner Corporation, Chicago, Ill. Fuel-feeding apparatus operated by pressure. 1,725,210; Aug. 20.
- Rockwell, Frederick C. (See Abby, Warren, assignor.)
- Rockwell, Harold H., et al., trustees. (See Carlson, Artie C., assignor.)
- Rockwell, Harry V., East Providence, R. I. Violin. 1,713,005; May 14.
- Rockwell, Hugh M., Elmhurst, N. Y. Internal-combustion engine. 1,717,066; June 11.
- Rockwell, Hugh M., Bristol, Conn. Bearing. 1,718,381; June 25.
- Rockwell, Sherburne B., Waterbury, Conn. Apparatus for dispensing gasoline and the like. 1,714,447; May 21.



- Rockwell, Stanley P., West Hartford, Conn. Dilatometer. 1,716,796; June 11.
- Rockwell, Willard F., assignor to Wisconsin Parts Company, Oshkosh, Wis. Differential-axle construction. 1,730,900; Oct. 8.
- Rockwood, A. Waldo, Winchester, and C. A. Milbery, Abington, Mass. Hat and sweatband therefor. 1,707,140; Mar. 26.
- Rockwood, A. Waldo, Winchester, Mass. Interlacing trimming and process of making. 1,725,998; Aug. 27.
- Rockwood, A. Waldo, Winchester, and C. A. Milbery, Abington, Mass. Sweatband. 1,731,025; Oct. 8.
- Rockwood Manufacturing Company. (See Hamerstadt, William D., assignor.)
- Rocquin, Camille J., New Orleans, La. Garden rake. 1,697,289; Jan. 1.
- Rocquin, Camille J., New Orleans, La. Rake. 1,706,547; Mar. 26.
- Rocquin, Camille J., New Orleans, La. Handle holder. 1,718,436; June 25.
- Rodale, Jerome L., New York, N. Y. Physical-exercising device. 1,707,449; Apr. 2.
- Rodanet, Charles H. H., Versailles, assignor to Societe Anonyme Etablissements Ed. Jaeger, Levallois, France. Electrical measuring apparatus. 1,697,369; Jan. 1.
- Rodanet, Charles H. H., Versailles, assignor to Societe Anonyme Etablissements Ed. Jaeger, Paris, France. Recording meter. 1,720,148; July 9.
- Rodd, William C., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Steering gear. 1,718,582; June 25.
- Roddy, Edward P., Brooklyn, N. Y. Automatic positioning device for canceling postage stamps on mail. 1,729,521; Sept. 24.
- Roddy, Eugene F. (See Gieske, Joseph H., assignor.)
- Rode, Friedrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Hydraulic cushion for sheet-metal presses. 1,697,611; Jan. 1.
- Rode, Friedrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Hydraulic cushion for metal presses. 1,706,073; Mar. 19.
- Rode, Friedrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Cushion for sheet-metal presses. 1,706,074; Mar. 19.
- Rode, Friedrich J., assignor to Marquette Tool & Mfg. Co., Chicago, Ill. Hydraulic cushion for metal presses. 1,718,435; June 25.
- Rodeck, Louis, Philadelphia, Pa. Toy lighthouse and ornament. 1,718,982; July 2.
- Rodefelf, Edward F. (See Rodefelf, William H., and E. F.)
- Rodefelf, William H. and E. F., assignors to Oshkosh Automotive Products Company, Oshkosh, Wis. Timing device. 1,698,893; Jan. 15.
- Rodene, Walford S., Okaloosa, Iowa. Aeroplane. 1,728,575; Sept. 17.
- Röder, Karl, Hanover, Germany. Steam or gas turbine. 1,730,746; Oct. 8.
- Roderwald, Rudolf, Berlin, Germany. Manufacturing V-type belts. 1,701,507; Feb. 12.
- Rodger Ballast Car Company. (See Hart, Harry S., assignor.)
- Rodger Ballast Car Company. (See Hindahl, David, assignor.)
- Rodger Ballast Car Company. (See Hosceit, William J., assignor.)
- Rodger Ballast Car Company. (See Neikirk, John O., assignor.)
- Rodger, William M., Wollaston, assignor to M. K. Forshee, Mattapan, Mass. Gripping mandrel. 1,736,463; Nov. 19.
- Rodgers, Alfred A., assignor to Scully Bros. Inc., Los Angeles, Calif. Aviator's helmet. 1,705,879; Mar. 19.
- Rodgers, Domiwick, Pittsburgh, Pa. Fan. 1,729,277; Sept. 24.
- Rodgers, Earle V., et al. (See Copeland, Harry A., assignor.)
- Rodgers, Edward B., New York, N. Y., assignor to O. M. Perkins. Fluid-pressure-control mechanism for oil-burning apparatus. 1,738,118; Dec. 3.
- Rodgers, Fay T., Memphis, Tenn. Refrigerator. 1,711,810; May 7.
- Rodgers, John D. (See Hess, Edward B., assignor.)
- Rodgers, Richard L., Chicago, Ill., assignor, by mesne assignments, to Charcolite Corporation, Clinton, Ind. Apparatus for carbonizing coal. 1,704,103; Mar. 5.
- Rodgers, Victor C., jr., Laredo, Tex. Mirror. 1,719,342; July 2.
- Rodic Rubber Company. (See Dickey, Charles T., assignor.)
- Rodier, Edward J., Glenolden, assignor to Lewis Manufacturing Company, Philadelphia, Pa. Gear-changing mechanism. 1,736,277; Nov. 19.
- Rodin, Charles F., San Francisco, and G. G. Jamleson, Oakland, Calif. Agitator. 1,733,516; Oct. 29.
- Rodin, Charles F., assignor to T. I. Moseley, San Francisco, Calif. Folding dish rack. 1,714,629; May 28.
- Rodin, Harry, assignor of one-half to H. E. Kohen, Cleveland, Ohio. Combined electrical switch and fuse. 1,734,916; Nov. 5.
- Rodionoff, Boris, Tunisie, North Africa. Plane with interchangeable blades. 1,726,124; Aug. 27.
- Rodler, Hilmer E., Davenport, Iowa, assignor to C. J. Mummert, West New York, N. J. Valve. 1,702,021; Feb. 12.
- Rodman, Clarence J., Alliance, Ohio. Lifting jack. 1,719,084; July 2.
- Rodman, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Deoxygenation off inclosed atmosphere. 1,725,160; Aug. 20.
- Rodman, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elimination of impurities in insulating oils. 1,739,092; Dec. 10.
- Rodman, Clarence J., and A. H. Maude, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electrical apparatus. 1,697,141; Jan. 1.
- Rodman, Clarence J., and A. H. Maude, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Deoxidizer. 1,736,464; Nov. 19.
- Rodman, Clarence J., and C. A. Styer, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Protective apparatus. 1,740,477; Dec. 24.
- Rodney-Hunt Machine Company. (See Simonds, W. J., and Harris, assignors.)
- Rodrian, Richard, New York, N. Y. Winning of metals from metal-bearing materials. 1,728,735; Sept. 17.
- Rodrick, Raymond A., assignor to C. W. White, Akron, Ohio, and himself. Windshield cleaner. 1,712,717; May 14.
- Rodrick, Raymond A., assignor to C. W. White, Akron, Ohio, and himself. Mechanical movement. 1,712,718; May 14.
- Rodrigues, George, Castroville, Calif. Sprinkler. 1,729,897; Oct. 1.
- Rodrigues, Manuel H., assignor of one-half to J. J. Pavao, Honolulu, Hawaii. Time switch. 1,710,111; Apr. 23.
- Rodriguez, Ramon, New York, N. Y. Phonograph. 1,704,260; Mar. 5.
- Rodstein, Harry, Brooklyn, D. Book, New York, and I. Nathanson, Brooklyn, N. Y.; said Book assignor to said Rodstein and said Nathanson. Bedstead. 1,709,374; Apr. 16.
- Roe, Alexander B., Athens, Ohio. Measuring and shaping device for covers and backs for books. 1,697,326; Jan. 1.
- Roe, Alexander B., Athens, Ohio. Bookbinding machine. 1,697,327; Jan. 1.
- Roe, Alexander B., Athens, Ohio. Book-drilling machine. 1,710,744; Apr. 30.
- Roe, Alpheus E., Oakland, assignor, by mesne assignments, to J. A. McNear, San Francisco, Calif. Box-printing machine. 1,721,922; July 23.
- Roe, Hamilton L., Pittsburgh, Pa. Method of and apparatus for the practice of agriculture. 1,737,866; Dec. 3.
- Roe, Harry A., Chicago, Ill., assignor to Sauerman Bros., Inc. Material-moving apparatus. 1,703,546; Feb. 26.
- Roe, John W., assignor to himself and J. Davis, Akron, Ohio. Differential. 1,737,390; Nov. 26.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Combined brake and stand for two-wheeled vehicles. 1,700,108; Jan. 22.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Scooter braking mechanism. 1,700,109; Jan. 22.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Vehicle braking mechanism. 1,700,110; Jan. 22.
- Roe, Mayo E., Elyria, Ohio, assignor to The Colson Company. Bicycle. 1,703,174; Feb. 26.
- Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Invalid chair. 1,739,260; Dec. 10.
- Roe, Nathaniel, Patchogue, N. Y. Combined searchlight and fuse tester. 1,734,230; Nov. 5.
- Roe, Virgil P., Clarkston, Wash. Concentrator. 1,723,711; Aug. 6.
- Roe, William C., assignor to Holmes Electric Protective Company, New York, N. Y. Alarm system. 1,709,097; Apr. 16.
- Roe, William C., Pittsburgh, Pa., assignor to Printel Manufacturing Corporation. Electrical code transmitter. 1,737,024; Nov. 26.
- Roe, William J., Newburgh, N. Y. Propeller for surface water craft. 1,713,448; May 14.
- Roebbel, Frederick W., assignor to Commonwealth Steel Company, St. Louis, Mo. Slotting tool. 1,714,570; May 28.
- Roebel, Ludwig, Mannheim, Germany. Nonmagnetic-core reactance coil. 1,738,117; Dec. 3.
- Roebel, Ludwig, Mannheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Single-phase operation of polyphase machines. 1,712,520; May 14.
- Roebuck, Alfred L., Winchendon, Mass. Ice-cream freezer. 1,701,764; Feb. 12.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. Des. 79,314; Aug. 27.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Hinge. Des. 79,846; Nov. 5.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. Des. 79,847; Nov. 5.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. Des. 79,848; Nov. 5.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. Des. 79,849; Nov. 5.



- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. Des. 79,850; Nov. 5.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. Des. 79,851; Nov. 5.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Hinge. Des. 79,885; Nov. 26.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Hinge. Des. 80,090; Dec. 10.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Hinge. Des. 80,091; Dec. 10.
- Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Furniture fixture. 1,710,321; Apr. 23.
- Roedding, Gordon E., and E. C. Osbeck, assignors to Grand Rapids Brass Company, Grand Rapids, Mich. Door latch. 1,700,747; Feb. 5.
- Roehl, Winslow J., Brooklyn, and J. H. Drohan, New York, N. Y. Automobile lamp. 1,730,592; Oct. 8.
- Roehr, Alexander H., Dayton, Ohio. Oil cleaner. 1,723,374; Aug. 6.
- Roehrich, Frank N., assignor of four-fifths to W. H. Loud and one-fifth to H. J. Lauda, Jersey City, N. J. Key lock. 1,712,640; May 14.
- Roemer, Julius, Lakewood, Ohio. Humidifier. 1,713,193; May 14.
- Roesch, Arthur A., assignor to Roesch Enamel Range Co., Belleville, Ill. Stove. 1,699,632; Jan. 22.
- Roesch Enamel Range Co. (See Roesch, Arthur E., assignor.)
- Roesch, Frank P., assignor to Harry Vissering and Company, Chicago, Ill. Crank-pin lubricator. 1,736,174; Nov. 19.
- Roesen, Oscar C., Brooklyn, assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Sectional transfer roller. 1,718,705; June 25.
- Roesen, Oscar C., Brooklyn, assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Smoothing device for impression blankets. 1,726,769; Sept. 3.
- Roesen, Oscar C., Brooklyn, assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Folding machine for tabloid newspapers. 1,739,328; Dec. 10.
- Roesen, Oscar C., Brooklyn, assignor to R. Hoe and Co., Inc., New York, N. Y. Shear-pin mounting. 1,740,838; Dec. 24.
- Roeske, Walter F., Chicago, Ill. Mattress or cushion. 1,725,935; Aug. 27.
- Roessler, Amandus C., Lakewood, assignor to The Rotary Machine & Engineering Company, Cleveland, Ohio. Rotary pump. 1,719,134; July 2.
- Roessler, Amandus C., assignor to The Rotary Machine & Engineering Company, Cleveland, Ohio. Rotary pump. 1,719,135; July 2.
- Roessler, Georg. (See Frankenburger, W., and Roessler.)
- Roessler & Hasslacher Chemical Company, The. (See Ainslee, Thomas D., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Carveth, Hector R., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Gilbert, Harvey N., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Roas, Benjamin, assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Storch, Henry H., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Trusler, Ralf B., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Whitby, George S., assignor.)
- Roethel, John H., Brooklyn, N. Y. Automobile ventilating device. 1,722,824; July 30.
- Roethel, John H., Brooklyn, N. Y. Roof ventilator for closed automobile bodies. 1,722,825; July 30.
- Rogan, John J., Elmhurst, assignor to Troy Laundry Machinery Company, Inc., New York, N. Y. Spring-winding machine and method. 1,715,046; May 28.
- Roger, Arthur, Lymm, England. Weft-pile-cutting machine. 1,710,788; Apr. 30.
- Rogers, Adam C., deceased; L. E. Rogers, administratrix, assignor, by mesne assignments, to Meakers Limited, London, England. Press for ties and similar articles. 1,701,192; Feb. 5.
- Rogers, Albert W., Sanchez, Dominican Republic. Railway track. 1,731,110; Oct. 8.
- Rogers, Allen, and R. Y. H. Lee, Brooklyn, N. Y. Tanning. 1,722,594; July 30.
- Rogers, Bruce W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reinforced sheet rubber. 1,733,469; Oct. 29.
- Rogers, Cecil M., assignor to Locomotive Firebox Co., Chicago, Ill. Locomotive-boiler fire box. 1,700,140; Jan. 29.
- Rogers, Charles F., assignor to Electromatic Manufacturing Company, Inc., Jacksonville, Fla. Electric water heater. 1,705,417; Mar. 12.
- Rogers, Clancy M., Kansas City, Kans. Picture toy. 1,719,853; July 9.
- Rogers, Clancy M., Belleville, Ill., assignor to American Car and Foundry Company, New York, N. Y. Mine car. 1,727,673; Sept. 10.
- Rogers, David C., Columbus, Ohio. Luggage carrier for vehicles. 1,737,432; Nov. 26.
- Rogers, Donald G., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Production of anthraquinone dyestuffs. 1,721,318; July 16.
- Rogers, Donald G., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Reducing organic compounds. 1,721,319; July 16.
- Rogers, Donald G., and H. T. Stowell, Buffalo, assignors to National Aniline & Chemical Company, Inc., New York, N. Y. Making anthraquinone-disulphonic acid. 1,721,317; July 16.
- Rogers, Earl F., assignor to The Peerless Foundry Company, Cincinnati, Ohio. Charging apparatus. 1,731,909; Oct. 15.
- Rogers, Edwin, Aurora, Ill. Flying machine. 1,730,627; Oct. 8.
- Rogers, Francis M. (See Bransky, O. E., and Rogers.)
- Rogers, Francis M. (See Wilson, R. E., Hunneman, Bahlke, and Rogers.)
- Rogers, Francis M., assignor to Standard Oil Company, Whiting, Ind. Treating hydrocarbon-oil residues. 1,698,452; Jan. 8.
- Rogers, Francis M., and E. J. Shaeffer, Whiting, Ind., assignors to Standard Oil Company, Chicago, Ill. Pressure distillation of hydrocarbon oils. 1,697,573; Jan. 1.
- Rogers, Frank H., Philadelphia, Pa., assignor, by mesne assignments to I. P. Morris Corporation. Gate-operating mechanism. 1,725,420; Aug. 20.
- Rogers, Frank H., Philadelphia, Pa., assignor, by mesne assignments to I. P. Morris Corporation. Gate-operating mechanism. 1,725,421; Aug. 20.
- Rogers, Frederick W., Beaver Dam, Wis., assignor to Malleable Iron Range Company. Range construction. 1,700,597; Jan. 29.
- Rogers, Gilbert E., Rockaway, N. J. Fuse for projectiles. 1,715,513; June 4.
- Rogers, Homer S., assignor to Combustion Fuel Oil Burner Company, Milwaukee, Wis. Oil burner. 1,716,325; June 4.
- Rogers, John C. (See Rogers, Walter F. and J. C.)
- Rogers, John R., Pittsburgh, Pa. Nasal distender. 1,709,740; Apr. 16.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 1,698,655; Jan. 8.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 1,717,411; June 18.
- Rogers, John W., Frenchtown, N. J. Radiator furniture. 1,697,965; Jan. 8.
- Rogers, Joseph E., Mamaroneck, N. Y., assignor to Dayton Scale Company, Dayton, Ohio. Household motor with attachments therefor. 1,734,500; Nov. 5.
- Rogers, Joseph W., Gloversville, N. Y. Anklet. 1,725,597; Aug. 20.
- Rogers, Lillie E., administratrix. (See Rogers, Adam C.)
- Rogers, Lore A., Washington, D. C., assignor to The Government and the People of the United States of America. Preparing milk for infant feeding. 1,722,710; July 30.
- Rogers, Lorlys R. (See Cook, H. M., and Rogers.)
- Rogers, Lunt & Bowlen Company. (See Koonz, Frederick W., assignor.)
- Rogers, Orville B. (See Olsen, Jems P., assignor.)
- Rogers, Oswald C., Center, Tex. Vending machine. 1,706,324; Mar. 19.
- Rogers Products Co. Inc. (See Albertine, Herman, assignor.)
- Rogers, Robert, et al. (See Stebler, William J., assignor.)
- Rogers, Robert J., Yakima, Wash. Barrel-handling device. 1,708,554; Apr. 9.
- Rogers, Simeon L. and George H., Company. (See Helander, Lillian V. M., assignor.)
- Rogers, Simeon L. and George H., Ltd. (See Helander, Lillian V. M., assignor.)
- Rogers, Stewart H., Cleveland, Ohio. Artificial flower and making same. 1,730,628; Oct. 8.
- Rogers, T. G., et al. (See Lowance, Samuel A., assignor.)
- Rogers, Walter F., Chicago, Ill. Stove construction. 1,713,092; May 14.
- Rogers, Walter F. and J. C., Chicago, Ill. Stove apron. 1,698,564; Jan. 8.
- Rogers, Walter F. and J. C., Chicago, Ill. Broiler oven. 1,740,785; Dec. 24.
- Rogers, Walter L., assignor to Loose-Wiles Biscuit Co., Chicago, Ill. Carton-taping machine. 1,701,508; Feb. 12.
- Rogers, Wm. A., Limited. (See Helander, Lillian V. M., assignor.)
- Rogers, Wm. A., Limited. (See James, Sidney V., assignor.)
- Rogers, Wm. A., Limited. (See Meyer, Albert O., assignor.)
- Rogge, Albert C., and H. Gordon, Columbus, Ohio. Hoel-seat-trimming machine. 1,740,667; Dec. 24.
- Rogginger, John, San Diego, assignor to Norco Mfg. Co., Norco, Calif. Measuring and agitating means for containers. 1,730,784; Oct. 8.
- Rogovin, Harry, Brooklyn, N. Y. Portable lighting device. 1,721,639; July 23.
- Rogovin, Harry, Brooklyn, N. Y. Portable lighting device. 1,725,936; Aug. 27.
- Rogovin, Moses, assignor to Rogstone Chemical Research Inc., New York, N. Y. Deodorizing animal and vegetable oils. 1,737,731; Dec. 3.



- Rogow, Sydney, New York, N. Y. Concrete bar. 1,709,441; Apr. 16.
- Rogstone Chemical Research Inc. (See Rogovin, Moses, assignor.)
- Roh, Albert J., Jr., Mobile, Ala. Insect-powder distributor. 1,729,490; Sept. 24.
- Rohan, Francis D. (See Glendinning, J. I., Rohan, and Saglaw.)
- Röhler, Kurt, Allentown, Pa. Hand-washing powder. 1,713,920; May 21.
- Rohlfing, John M., Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y. Movable platform. 1,699,544; Jan. 22.
- Rohlfing, John M., Plainfield, N. J., assignor to American Car and Foundry Company, New York, N. Y. Stripper mechanism for punching presses. 1,706,075; Mar. 19.
- Rohm, Albert C., Jr., Davenport, Iowa. Child's wheeled vehicle. 1,724,725; Aug. 13.
- Rohm & Haas Company. (See Helwig, Edward L., assignor.)
- Rohm & Haas Company. (See Pickard, R. H., Lloyd, and Counce, assignors.)
- Rohm & Haas Company. (See Somerville, Ian C., assignor.)
- Röhm, Otto, Darmstadt, Germany. Treatment of hides. 1,735,977; Nov. 19.
- Rohmer, Gabriel E., New York, N. Y. Aquatic roundabout. 1,733,102; Oct. 22.
- Rohmer, Gabriel E., New York, N. Y., assignor to National Coal Distillation Corporation. Low-temperature distillation of bituminous coal. 1,708,740; Apr. 9.
- Rohn, Gilbert J., and A. Pfau, Jr., Milwaukee, Wis., assignors, by mesne assignments, to Globar Corporation, Niagara Falls, N. Y. Electric hot-air furnace. 1,701,012; Feb. 5.
- Rohn, Wilhelm, Hanau-on-the-Main, Germany. Nickel-chromium-iron alloy and articles made therefrom. 1,736,053; Nov. 19.
- Rohn, Wilhelm, Hanau-on-the-Main, assignor to the firm: Vacuum-Schmelze Gesellschaft mit beschränkter Haftung, Frankfurt-on-the-Main, Germany. Furnace construction. 1,704,902; Mar. 12.
- Rohne, Even J., Minneapolis, Minn. Electrical heating utensil. 1,702,089; Feb. 12.
- Rohrbach, Adolf, Berlin-Wilmersdorf, Germany. Hydro-aeroplane. 1,699,991; Jan. 22.
- Rohrbach, Adolf, Berlin-Wilmersdorf, Germany, assignor to Rohrbach Patents Corporation. Airplane. 1,738,670; Dec. 10.
- Rohrbach Metall-Flugzeugbau G. m. b. H. (See Staiger, Ludwig, assignor.)
- Rohrbach Metall-Flugzeugbau G. m. b. H. (See Wiglenda, Ernst, assignor.)
- Rohrbach Patents Corporation. (See Rohrbach, Adolf, assignor.)
- Rohrbeck, Wilhelm, Berlin-Reinickendorf-Ost, Germany. Refrigerating box. 1,726,629; Sept. 3.
- Rohrer, Dossa E., Charlotte, N. C. Cable clamp. 1,710,243; Apr. 23.
- Rohrer, Dossa E., Charlotte, N. C. Latch for electric switches. 1,737,334; Nov. 26.
- Rohrer, Josiah H., Philadelphia, Pa. Air heater. 1,722,826; July 30.
- Rohwedder, Otto F., Davenport, Iowa. Bread-fastening machine. 1,700,854; Feb. 5.
- Rohwedder, Otto F., Davenport, Iowa. Bread-fastening apparatus. 1,724,368; Aug. 13.
- Rohwedder, Otto F., Davenport, Iowa. Wireworking machine. 1,740,038; Dec. 17.
- Rohwer, Heinrich, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Diesel engine. 1,721,040; July 16.
- Rohwer, Paul G. (See Tuck, Russell F., assignor.)
- Róka, Koloman, Constance, assignor to the firm of Holzverkohlungs-Industrie Aktien-Gesellschaft, Constance, Baden, Germany. Chlorination of methane. 1,723,442; Aug. 6.
- Rokeach, Annie, Brooklyn, N. Y., assignor of one-half to M. Turk. Safety container for bottles. 1,719,488; July 2.
- Rokita, Frank, Elloam, Mont. Wind motor. 1,720,402; July 9.
- Rokos, Michael P., Los Angeles, Calif. Implement handle and device for holding tools. 1,727,904; Sept. 10.
- Roland Fireproof Celluloid Corporation. (See Roland, Rudolf, assignor.)
- Roland, Noble T. (See Andersen, F. C., Nash, and Roland.)
- Roland, Rudolf, Jackson Heights, assignor to Roland Fireproof Celluloid Corporation, Flushing, N. Y. Celluloid compound. 1,713,482; May 14.
- Rolfie, Charles A., Redlands, Calif. Information plate. 1,699,376; Jan. 15.
- Rolfie, Walter T., Austin, Tex., assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 79,852; Nov. 5.
- Rolfes, George H. (See Brinkmeyer, E. G., and Rolfes.)
- Rolfes, George H., assignor to A. H. Handlan, St. Louis, Mo. Adjustable reflector for lighting devices. 1,701,193; Feb. 5.
- Rolfs, Edward A. (See Raimer, P., and Rolfs.)
- Rolfsen, Ole, Larvik, Norway. Lubricant oil. 1,717,939; June 18.
- Rolfsen, Ole, Larvik, Norway. Rotating tool for working in earth, rock, metal, wood, and the like. 1,726,923; Sept. 3.
- Roline, Carl G., and C. Norre, Chicago, Ill., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for folding the corners of book covers. Re17,231; Mar. 12.
- Rolker, Edwin, assignor to Maryland Baking Company, Baltimore, Md. Cone remover and trimmer. 1,741,656; Dec. 31.
- Rolland Glass Company. (See Stewart, Laurence E., assignor.)
- Rolland, Lucien. (See Spire, P., and Rolland.)
- Roll-A-Way Bed Corporation. (See Matheson, William A., assignor.)
- Roller, Frank W., East Orange, N. J. Transformer. 1,735,092; Nov. 2.
- Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Adjustable device for instruments. 1,708,900; Apr. 9.
- Roller, Leslie G., Cedar Rapids, Iowa. Valve grinder. 1,707,572; Apr. 2.
- Roller, Louis H., White Plains, N. Y. Material for magnetic apparatus and making same. 1,697,142; Jan. 1.
- Roller-Smith Company. (See Roller, Frank W., assignor.)
- Rolli, Dominick. (See Leonard, Charles E., assignor.)
- Rollins Hosiery Mills. (See Hague, Alfred G., assignor.)
- Rollins, James A., Denison, Iowa. Animal trap. 1,738,448; Dec. 3.
- Rollins, Jarrot L., Colfax, Calif. Dimmer glass. 1,742,049; Dec. 31.
- Rollins, Lewis P., and H. R. Banks, Dumont, assignors of one-fourth to L. C. Robinson and one-fourth to G. C. Ford, Hampton, Iowa. Automatically-operated oil burner. 1,705,310; Mar. 12.
- Rollins, Richard B., Chicago, Ill. Sanitary bottle rack. 1,742,150; Dec. 31.
- Rollins, Sewall Q., Bangor, Me. Mattress. 1,703,175; Feb. 26.
- Rollman, Bruce, assignor to The Ohio Cultivator Company, Bellevue, Ohio. Press. 1,696,974; Jan. 1.
- Rollman, Michael A., Mount Joy, Pa. Sadiron. Des. 77,859; Feb. 26.
- Rollman, Michael A., Mount Joy, Pa. Ice-cream freezer. 1,715,864; June 4.
- Rollman, Michael A., Mount Joy, Pa. Sadiron stand. 1,738,845; Dec. 10.
- Rolls-Royce Limited. (See Rowledge, Arthur J., assignor.)
- Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
- Rolph, James S. (See Fayette, G. J., and Rolph.)
- Rolph, Thomas W., Newark, Ohio, assignor to Holophone Company, Inc., New York, N. Y. Traffic signal. 1,708,108; Apr. 9.
- Rolph, Thomas W., Newark, Ohio, assignor to Holophone Company, Inc., New York, N. Y. Luminair. 1,724,726; Aug. 13.
- Rolph, Thomas W., and W. A. Dorey, Newark, Ohio, assignors to Holophone Company, Inc., New York, N. Y. Luminair. 1,705,943; Mar. 19.
- Rolph, Thomas W., and W. A. Dorey, Newark, Ohio, assignors to Holophone Company, Inc., New York, N. Y. Luminair. 1,724,727; Aug. 13.
- Rolscreen Company. (See Dixon, Harry, assignor.)
- Rolscreen Company, The. (See Nelson, Nels H., assignor.)
- Rolston, Walter, F., assignor, by direct and mesne assignments, of one-half to Burson Knitting Company, Rockford, Ill. Yarn-feed mechanism. 1,718,835; June 25.
- Rom, Daniel W., Wauwatosa, Wis. Stopper. 1,720,149; July 9.
- Roman, Benjamin. (See Holtzman, John, assignor.)
- Roman, Frank L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Waterproof and flameproof materials. 1,720,747; July 16.
- Roman, Simon, New York, N. Y. Safety gas valve. 1,710,515; Apr. 23.
- Romane, Georges, St. Mandé, France. Imitation astrakhan fur and manufacturing the same. 1,731,591; Oct. 15.
- Romanelli, Emilio, Bloomfield, N. J., assignor to Westinghouse Lamp Company. Apparatus for heat treating metallic bodies. 1,698,824; Jan. 15.
- Romanoff, Hippolyte, Neuilly sur Seine, France. Closing device for hand baggage and cases and the like. 1,709,593; Apr. 16.
- Romanoff, Walter, Philadelphia, Pa. Accordion reed bar. 1,716,835; June 11.
- Romao, August, San Francisco, assignor to Musical Accessories Corporation, Oakland, Calif. Saxophone-cleaning device. 1,730,785; Oct. 8.
- Rombauer, Ernst E., St. Louis, Mo. Ventilating door for railway cars and the like. 1,720,858; July 16.
- Rome Company, The. (See Hanauer, Darwin, assignor.)
- Rome Company, The. (See Pittoni, Louis E., assignor.)
- Rome, Gustave. (See Higgins, C. S., and Rome.)
- Rome Manufacturing Company. (See Schneible, Frank W., assignor.)
- Romer, James F., West Hampstead, assignor to J. E. Thornton, London, England. Optical device for photographic, cinematographic, and other purposes. 1,722,356; July 30.
- Romer, James F., West Hampstead, assignor to J. E. Thornton, London, England. Optical device for photographic, cinematographic, and other purposes. 1,722,357; July 30.
- Romer, Morris C., Brooklyn, N. Y. Joint for corrugated boxes. 1,731,111; Oct. 8.
- Romero, Alfredo L., San Francisco, Calif. Combination dice husker and flour mill. 1,710,459; Apr. 23.



- Romie, Karl T., Berkeley, Calif. Apparatus for forming concrete blocks. 1,707,994; Apr. 9.
- Romieux, Charles J. (See Novotny, E. E., and Romieux.)
- Romig, Morris W., Allentown, Pa., assignor to L. F. Grammes & Sons, Inc. Snap-lock fastener for name plates and the like. 1,703,960; Mar. 5.
- Romig, William H., assignor of one-half to C. Weidler, Lebanon, Pa. Folding stool. 1,700,271; Jan. 29.
- Romine, Robert T., Mount Clemens, Mich. Industrial truck. 1,709,741; Apr. 16.
- Rommell, Frank, Bangor, Wis. Adjustable partition or gate. 1,700,646; Jan. 29.
- Rommer, Dora, administrator. (See Rommer, Isaac A.)
- Rommer, Isaac A., deceased, Brooklyn, N. Y.; D. Rommer, administrator. Doll's eye. 1,711,481; Apr. 30.
- Romort Manufacturing Company. (See Ewald, Arno A., assignor.)
- Romp, Johan, and W. F. Brandsma, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken. Transformer. 1,718,080; June 18.
- Romson, Carl, Mora, Sweden. Fire life-saving device. 1,740,317; Dec. 17.
- Romyak, John, Youngstown, Ohio. Scaffold bracket. 1,724,851; Aug. 13.
- Ronci, Victor L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,700,451; Jan. 29.
- Ronci, Victor L., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron-discharge device. 1,700,452; Jan. 29.
- Ronci, Victor L., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical conductor and making same. 1,722,016; July 23.
- Rondolin, Laurent, assignor to Peek Frean & Company Limited, London, England. Manufacture of biscuits and the like. 1,720,609; July 9.
- Ronemous, Walter R., Charleston, S. C. Ice elevator. 1,716,979; June 11.
- Ronk, George T., Cedar Rapids, Iowa. Counterbalance for ditching machines. 1,718,434; June 25.
- Ronk, George T., assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Ditcher carrier. 1,698,172; Jan. 8.
- Ronk, George T., assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Carriage for excavator buckets. 1,701,013; Feb. 5.
- Ronk, George T., assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Skimmer attachment for excavators. 1,708,281; Apr. 9.
- Ronk, George T., assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Operating mechanism for ditching machines and their carrier cars. 1,726,771; Sept. 3.
- Ronk, George T., assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Fair leader. 1,732,485; Oct. 22.
- Ronk, George T., Fairfield, assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Mechanism for operating excavator shovels. 1,726,770; Sept. 3.
- Ronneberg, Erling, et al., executors. (See Levin, Axel L.)
- Ronning, Adolph. (See Ronning, Andean G. and A.)
- Ronning, Adolph, et al., executors. (See Ronning, Andean G. and A.)
- Ronning, Andean G. and A., assignors to Ronning Machinery Company, Minneapolis, Minn. Combination tractor grader. 1,706,256; Mar. 19.
- Ronning, Andean G., deceased, and A. Ronning, Minneapolis, Minn.; J. A. Ronning and A. Ronning, executors. Tractor truck. 1,698,277; Jan. 8.
- Ronning, Andean G., deceased, and A. Ronning, Minneapolis, Minn.; J. A. Ronning and A. Ronning, executors. Ensilage harvester. 1,699,251; Jan. 15.
- Ronning, Andean G., deceased, and A. Ronning, Minneapolis, Minn.; J. A. Ronning and A. Ronning, executors. Harvester. 1,699,252; Jan. 15.
- Ronning, Andean G., deceased, and A. Ronning, Minneapolis, Minn.; J. A. Ronning and A. Ronning, executors. Combination tractor implement. 1,700,421; Jan. 29.
- Ronning, Andean G., deceased, and A. Ronning, Minneapolis, Minn.; J. A. Ronning and A. Ronning, executors. Road machine. 1,706,257; Mar. 19.
- Ronning, Jacob A., et al., executors. (See Ronning, Andean G. and A.)
- Ronning Machinery Company. (See Ronning Andean G. and A., assignors.)
- Rood, Charles W., assignor to The Automotive Elevator Corporation, Orlando, Fla. Motor-vehicle hoist. 1,710,552; Apr. 23.
- Rood, Clarence J., Fergus Falls, Minn. Shutter mechanism for automobile radiators. 1,737,946; Dec. 3.
- Rooke Automatic Register Company. (See Rooke, George F., assignor.)
- Rooke, George F., Providence, R. I. Automatic fare-registering apparatus and stand therefor. 1,730,015; Oct. 1.
- Rooke, George F., assignor to Rooke Automatic Register Company, Providence, R. I. Register. 1,718,583; June 25.
- Rooke, George F., assignor to Rooke Automatic Register Company, Providence, R. I. Registering apparatus. 1,718,584; June 25.
- Rooke, Robert M., Jr., Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Removing defects from steel billets. 1,732,912; Oct. 22.
- Rooks, Joe, Andersonville, Ga. Bed bottom. 1,716,243; June 4.
- Rooney, Elwin H., Providence, R. I. Card-cleaning device. 1,732,860; Oct. 22.
- Rooney, Michael F., Worcester, assignor to Rodney Hunt Machine Company, Orange, Mass. Continuous machine for treating fabrics. 1,722,482; July 30.
- Rooney, Rose V., Detroit, Mich. Curtain fastener. 1,731,986; Oct. 15.
- Roop, Elston A., Louisville, Ky. Golf tee. Des. 78,587; May 21.
- Roos, Benjamin, Berlin, Germany, assignor of one-half to The Roessler & Hasslacher Chemical Company, New York, N. Y. Sodium-sulphide pellet. 1,699,377; Jan. 15.
- Roos, Carlisle K., Glen Ellyn, assignor to United States Gypsum Company, Chicago, Ill. Surfacing material. Re17,394; Aug. 6.
- Roos, Edward, Forest Park, Ill. Furniture construction. 1,718,585; June 25.
- Roos, Henry W., Cincinnati, Ohio. Shore attachment. 1,722,312; July 30.
- Roos, Ludwig W., Basel, Switzerland. Ash tray. 1,699,160; Jan. 15.
- Roos, Oscar C., New York, N. Y. Apparatus for varying the electromagnetic constants of slow-speed coils. 1,704,215; Mar. 5.
- Roos, Oscar C., Bronx, N. Y. Electromagnetic-wave receiving system. 1,707,944; Apr. 2.
- Roos, Oscar C., Bronx, N. Y. Electromagnetic-wave receiving system. 1,707,945; Apr. 2.
- Roos, William, New York, N. Y. Rudder for ships. 1,697,779; Jan. 1.
- Roosa, Samuel M. J., Owosso, Mich. Harvester for beans, peas, or the like. 1,707,878; Apr. 2.
- Root, A. I., Company, The. (See Root, Huber H., assignor.)
- Root, Bertwell C., assignor to Brown Company, Berlin, N. H. Angular conduit connection and making same. 1,727,418; Sept. 10.
- Root, Charles F., assignor to The Chandler and Price Company, Cleveland, Ohio. Device for registering sheets on platens. 1,712,585; May 14.
- Root, Charles F., assignor to The Chandler and Price Company, Cleveland, Ohio. Sheet-registering device. 1,738,799; Dec. 10.
- Root, Emma S., Los Angeles, Calif. Quilting frame. 1,732,660; Oct. 22.
- Root, Ernest C. (See Root, Florence and E. C.)
- Root, Florence and E. C., New York, N. Y. Safety bag. 1,728,365; Sept. 17.
- Root, Frank B., assignor to Flood & Conklin Company, Newark, N. J. Wrinkling finish. 1,732,661; Oct. 22.
- Root, Frank T., York, Pa., assignor, by mesne assignments, to Detroit and Security Trust Company. Spare-tire carrier. 1,733,363; Oct. 29.
- Root, Frank T., Indianapolis, Ind., assignor, by mesne assignments, to Detroit and Security Trust Company. Spare rim and tire locking device. 1,735,338; Nov. 12.
- Root, Harry A. (See Larrabee, B. G., Root, and Cassaday.)
- Root, Huber H., assignor to The A. I. Root Company, Medina, Ohio. Specimen box. 1,715,572; June 4.
- Root, Huber H., assignor to The A. I. Root Company, Medina, Ohio. Honey extractor. 1,730,593; Oct. 8.
- Root, John, Galesburg, Ill. Press for securing foundations in honey boxes. 1,699,253; Jan. 15.
- Root, Lemma J., Seattle, Wash. Spring. 1,708,684; Apr. 9.
- Root Manufacturing Company, The. (See Root, Ralph R., assignor.)
- Root, Marshall J., Woonsocket, R. I., assignor to American Wringer Company, Inc. Wringer machine. 1,716,902; June 11.
- Root, Ralph R., Lakewood, Ohio. Water-heating-controlling device. 1,724,804; Aug. 13.
- Root, Ralph R., assignor to The Root Manufacturing Company, Cleveland, Ohio. Device for distribution of powdery material. 1,724,805; Aug. 13.
- Root, Raymond R., Georgetown, Mass. Wind-driven boxer toy. 1,731,396; Oct. 15.
- Root Spring Scraper Company. (See Pneuman, Jayn M., assignor.)
- Roothaan, Jan, Hayes, England. Oil-cooled transformer. 1,711,364; Apr. 30.
- Roper, Geo. D., Corporation. (See Hobson, Stanley H., assignor.)
- Roper, Geo. D., Corporation. (See Hollman, Peter I., assignor.)
- Roper Knitting Company. (See Crego, W. A., and Andrews, assignors.)
- Roper, Ralph. (See Homesley, E., and Roper.)
- Röpke, Christian, Bremen, Germany. Counting frame. 1,714,106; May 21.
- Ropp, Franklin N., Los Angeles, Calif. Joist hanger for concrete buildings. 1,728,981; Sept. 24.
- Ropp Tin Limited. (See Cothay, Frank H., assignor.)
- Roraback, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Interlocked excavator teeth. 1,696,924; Jan. 1.
- Rosa, Augusto, Rome, Italy. Electric circuit for central telephone offices. 1,723,524; Aug. 6.
- Rosay, Joseph, New York, N. Y. Drinking attachment for water faucets. 1,704,408; Mar. 5.
- Rosback, F. P., Company. (See Manny, Fred L., assignor.)
- Rosberry, Henry A. (See Cole, Dwight S., assignor.)
- Rose, Alexander D., assignor to Jas. P. Marsh & Company, Chicago, Ill. Magnifying device for gauges and the like. 1,726,314; Aug. 27.



- Rose, Alfred G., assignor of one-half to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Machine for wrapping caramels and the like. 1,735,978; Nov. 19.
- Rose, Alfred G., assignor of one-half to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Machine for wrapping caramels and like articles. 1,738,079; Dec. 3.
- Rose, Arthur F., Chillicothe, Ohio. Drier room. 1,704,870; Mar. 12.
- Rose Brothers (Gainsborough) Limited. (See Rose, Alfred G., assignor.)
- Rose, Bruce E., Stockton, Calif. Harrow-disk control. 1,705,736; Mar. 19.
- Rose, Bruce E., Stockton, Calif. Revolving scraper. 1,734,347; Nov. 5.
- Rose, Bruce E., Stockton, and G. Woolwine, Selma, Calif. Scraper. 1,724,370; Aug. 13.
- Rose, Bruce E., Exeter, Calif. Revolving scraper. 1,729,229; Sept. 24.
- Rose, Charles M., New York, N. Y. Closure and pouring device for containers. 1,726,315; Aug. 27.
- Rose Company, The. (See Rose, Harry M., assignor.)
- Rose, Dalton K., assignor to J. H. Zumbalen, St. Louis, Mo. Apparatus for diagnosing bladder conditions. 1,712,848; May 14.
- Rose, Edgar J., Los Angeles, Calif. Pulsating pump. 1,722,595; July 30.
- Rose, Edward E., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc chute. 1,697,143; Jan. 1.
- Rose, Edward E., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller finger. 1,731,939; Oct. 15.
- Rose, Elias B., Los Angeles, Calif. Coin-controlled telephone lock. 1,730,639; Oct. 8.
- Rose, Elizabeth M., executrix. (See Rose, Thomas.)
- Rose, Ernest W., Reservoir, Australia. Formation of concrete buildings. 1,730,533; Oct. 8.
- Rose, Frank L., Helena, Mont. Gate. 1,729,187; Sept. 24.
- Rose, Frederick W. P., Clifton, and C. Werner, Passaic, assignors to Werner & Co., Inc., Passaic, N. J. Textile-finishing machine. 1,697,736; Jan. 1.
- Rose, Frederick W. P., Clifton, and C. Werner, Passaic, assignors to A. Haeblerlin, Paterson, N. J. Textile-finishing machine. 1,712,308; May 7.
- Rose, George E., Chicago, Ill. Regenerative furnace. 1,721,885; July 23.
- Rose, George F., New York, N. Y. Typewriting machine. 1,715,428; June 4.
- Rose, Harold D., Brooklyn, assignor to Model Brassiere Co., New York, N. Y. Undergarment. 1,702,618; Feb. 19.
- Rose, Harold D., Brooklyn, assignor to Model Brassiere Co., New York, N. Y. Lady's undergarment. 1,710,460; Apr. 23.
- Rose, Harry M., assignor to The Rose Company, Philadelphia, Pa. Easel. 1,709,953; Apr. 23.
- Rose, Harry M., assignor to The Rose Company, Philadelphia, Pa. Display device. 1,719,854; July 9.
- Rose, Henry, Columbus, Ohio. Magnifying apparatus. 1,702,317; Feb. 19.
- Rose, Henry W., assignor of one-half to A. Grigg, Galveston, Tex. Paint gun. 1,726,412; Aug. 27.
- Rose, Herbert E., Warwick, assignor to General Fire Extinguisher Company, Providence, R. I. Valve latch. 1,707,573; Apr. 2.
- Rose, James R., Edgeworth, Pa. Cutting torch. 1,733,698; Oct. 29.
- Rose, James R., Pittsburgh, Pa., assignor to Torchparts Gas Appliance Company, Cleveland, Ohio. Blowpipe. 1,703,750; Feb. 26.
- Rose, Joseph K., Chicago, Ill. Wire connector. 1,699,211; Jan. 15.
- Rose, Leo W., Dover, Ohio, assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Lock-joint pipe seam. 1,715,008; May 28.
- Rose, Paul A., New York, N. Y., and C. E. Dunn, Short Hills, N. J. Humidifying apparatus. 1,718,182; June 18.
- Rose, Reed P., Jackson Heights, and H. E. Cude, Floral Park, assignors to General Rubber Company, New York, N. Y. Saturating paper. 1,705,537; Mar. 19.
- Rose, Robert W., Clifton, Mass. Mechanical maid. 1,715,951; June 4.
- Rose, Thomas, deceased, Ambler, Pa.; E. M. Rose, now by marriage, E. M. Evans, executrix, assignor to Selective Treatment Company Limited, Montreal, Canada, and Powhatan Mining Corporation, Baltimore, Md. Method for separating asbestos. 1,714,438; May 21.
- Rose, William E., San Diego, Calif. Muting device for violins and the like. 1,722,680; July 30.
- Rose, William H., Jersey City, N. J. Garment support. 1,710,112; Apr. 23.
- Rose, William H., Jersey City, N. J. Container and closure therefor. 1,713,676; May 21.
- Rose, William H., Jersey City, N. J. Closure valve. 1,730,436; Oct. 8.
- Rose, William R., Arlington Ridge, Va. Self-clearing roof drain strainer. 1,721,472; July 16.
- Rose, William V., Twickenham, and C. R. Gibbs, Thornton Heath, England. Coin-freed vending machine and the like. 1,713,626; May 21.
- Rosebraugh, Wilson, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Combined shade and reflector. 1,717,067; June 11.
- Rosel, William E., assignor to The Yardley Screen and Weather Strip Co., Columbus, Ohio. Metallic screen frame. 1,725,937; Aug. 27.
- Rosell, Eric A., Upper Darby, Pa. Ventilator. 1,705,418; Mar. 12.
- Roselund, Harold A., assignor to The De Vilbiss Company, Toledo, Ohio. Indirect exhaust system. 1,701,637; Feb. 12.
- Roseman, Joseph A., assignor to Roseman Tractor Mower Company, Evanston, Ill. Power mower. 1,733,133; Oct. 29.
- Roseman, Leo, Newark, N. J. Garment-fastener means. 1,715,514; June 4.
- Roseman, Leo, Newark, N. J. Automatic work-starting mechanism for sewing machines. 1,724,681; Aug. 13.
- Roseman, Leo, Newark, N. J. Garment-fastener tape. 1,733,558; Oct. 29.
- Roseman Tractor Mower Company. (See Roseman, Joseph A., assignor.)
- Rosen, Jessel. (See Parsons, C. A., and Rosen.)
- Rosen, Martin, assignor to Sun-Goods Corporation, Chicago, Ill. Packing loose particles of food. 1,733,998; Oct. 29.
- Rosenbaum, Benjamin, Bronx, N. Y. Combined hot and cold water valve. 1,730,534; Oct. 8.
- Rosenbaum, Bruno, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Cathode energized by alternating or pulsating currents. 1,705,683; Mar. 19.
- Rosenbaum, Bruno, and O. Pohle, assignors to the firm Dr. Erich F. Huth G. m. b. H., Berlin, Germany. Communication system. 1,734,231; Nov. 5.
- Rosenbaum, Hellmuth R., Madrid, Spain. Railroad. 1,740,201; Dec. 17.
- Rosenbaum, Jesse, Brooklyn, N. Y. Luggage guard. 1,734,182; Nov. 5.
- Rosenbaum, Lester F., and E. C. Bowers, Kalamazoo, Mich.; said Bowers assignor to said Rosenbaum. Sewing and pressing mechanism. 1,702,271; Feb. 19.
- Rosenbaum, Rudolph R., Chicago, Ill. Process and apparatus for reclaiming waste oil. 1,708,488; Apr. 9.
- Rosenberg, Bros. & Co. (See Sturges, John E., assignor.)
- Rosenberg, Harry M., Port Chester, N. Y. Lock for gas cocks. 1,709,594; Apr. 16.
- Rosenberg, Heyman, New York, N. Y. Anchorage device. 1,719,136; July 2.
- Rosenberg, Heyman, New York, N. Y. Metallic fastener. 1,719,137; July 2.
- Rosenberg, Jacob C., Youngstown, Ohio. Steam-engine reversing gear. 1,705,626; Mar. 19.
- Rosenberg, James, assignor to Metal Forming Process, Inc., Cleveland, Ohio. Metal working. 1,709,323; Apr. 16.
- Rosenberg, Philip, and A. Jaeger, Brooklyn, N. Y. Straw-hat construction. 1,733,075; Oct. 22.
- Rosenberg, Ralph H., Syracuse, N. Y., assignor to American Cable Company, Inc. Cable bumper. 1,701,305; Feb. 5.
- Rosenberg, Ralph H., Syracuse, N. Y., assignor to American Cable Company, Inc. Ventilated brake rotor. 1,717,522; June 18.
- Rosenberg, Wolf, Chicago, Ill. Elementary music-note guide. 1,721,282; July 16.
- Rosenberger, Charles V., Independence, Iowa. Dressing poultry. 1,727,674; Sept. 10.
- Rosenberger, Ernst, Mankato, Minn. Snowplow. 1,724,316; Aug. 13.
- Rosenberger, S., Coates & Company. (See Whitlam, Frederick C., assignor.)
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 78,899; July 2.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,164; Aug. 6.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,165; Aug. 6.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,241; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,242; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,243; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,244; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,245; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting-fixture bracket. Des. 79,246; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,247; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,248; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting-fixture bracket. Des. 79,249; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,250; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,251; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,252; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,253; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,254; Aug. 20.



- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting-fixture bracket. Des. 79,255; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting-fixture bracket. Des. 79,256; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Portable lamp. Des. 79,257; Aug. 20.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,307; Aug. 27.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,441; Sept. 17.
- Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 79,530; Oct. 1.
- Rosenblatt, Max, New York, N. Y., assignor to J. F. Meyer, Chicago, Ill. Coin-controlled apparatus. 1,706,465; Mar. 26.
- Rosenbloom, Saul, Chicago, Ill. Flanging tool. 1,732,861; Oct. 22.
- Rosenblum, Charles, assignor to Krischer's Manufacturing Company, Brooklyn, N. Y. Bathing-belt buckle. 1,719,903; July 9.
- Rosenblum, Israel, Jackson Heights, assignor to Varnol Chemical Corporation, Long Island City, N. Y. Mixed ester resin complex and producing the same. 1,709,490; Apr. 16.
- Rosenblum, Morris D., Rochester, N. Y. Aeroplane. 1,733,030; Oct. 22.
- Rosenbluth, Edwin M., Wallingford, Pa. Heater for water-cooling apparatus of motor vehicles and the like. 1,702,918; Feb. 19.
- Rosendahl, Nils M., Waterloo, Iowa, assignor to Construction Machinery Company. Measuring tank. 1,721,923; July 23.
- Rosendahl, Nils M., Waterloo, Iowa, assignor to Construction Machinery Company. Mixer timer. 1,724,369; Aug. 13.
- Rosener, Leland S., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Apparatus for handling heavy objects. 1,736,016; Nov. 19.
- Rosener, Leland S., and D. H. Patterson, jr., assignors to The Paraffine Companies, Inc., San Francisco, Calif. Paper-manufacturing system. 1,704,216; Mar. 5.
- Rosenfeld, Louis, Baltimore, Md., assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Milk cooler. 1,697,696; Jan. 1.
- Rosenfeld, Louis, Baltimore, Md., assignor, by mesne assignments, to Cherry-Burrell Corporation. Milk cooler. 1,736,626; Nov. 19.
- Rosenfeld, Mendel, Wallingford, Conn. Baggage attachment. 1,715,865; June 4.
- Rosenfeld, Mortimer C. (See Wertz, Austin L., assignor.)
- Rosenfeld, Mortimer C., Cleveland, and F. E. McCabe, Chagrin Falls, assignors to The Grabler Manufacturing Company, Cleveland, Ohio. Sign and manufacturing the same. 1,741,118; Dec. 24.
- Rosenfield, Jacob, Brooklyn, assignor to Bar-Zim Toy Manufacturing Co. Inc., New York, N. Y. Game toy. 1,697,612; Jan. 1.
- Rosenfeld, John B., Piedmont, Calif. Insect-poison container. 1,703,210; Feb. 26.
- Rosenfeld, Joseph L., Alameda, Calif. Nut-meat product and manufacturing the same. 1,716,152; June 4.
- Rosenfeld, William F., Washington, D. C. Air valve. 1,725,674; Aug. 20.
- Rosengren, Oscar F. N., Nevils, Minn. Egg case. 1,719,381; July 2.
- Rosenhaft, Isaac, and I. Herskowitz, New York, N. Y. Vanity case. Des. 77,624; Jan. 29.
- Rosenheim Co. (See Jones, Percival W., assignor.)
- Rosenheim Co. Inc. (See Jones, Percival W., assignor.)
- Rosenkrantz, Joseph, Springfield, Mass. Hand bag. 1,718,437; June 25.
- Rosenlöcher, Otto, Berlin, Germany, assignor to General Electric Company. Elastic-fluid turbine. 1,740,372; Dec. 17.
- Rosenqvist, Gunnar, Pittsburgh, Pa. Casket. 1,711,542; May 7.
- Rosenqvist, Gunnar, Pittsburgh, Pa. Forming hollow articles. 1,723,659; Aug. 6.
- Rosenqvist, Gunnar, Pittsburgh, Pa. Method of and apparatus for making articles of galvanoplastic metal. 1,735,909; Nov. 19.
- Rosensteel, Duke J., Ebensburg, Pa. Tube cleaner. 1,699,993; Jan. 22.
- Rosenstein Bros. & Hook. (See Hook, August B., assignor.)
- Rosenstein, Fritz, and E. Bendheim, Los Angeles, Calif. Beverage maker and dispenser. 1,701,194; Feb. 5.
- Rosenstein, Ludwig. (See Hagens, J. F. C., Rosenstein, and Hirschkind.)
- Rosenstein, Ludwig. (See Morgen, R. A., Yard, and Rosenstein.)
- Rosenthal, Ambrose H., Salem, Mass. Treating leather. 1,705,311; Mar. 12.
- Rosenthal, August, assignor to Rosenthal Manufacturing Co., West Allis, Wis. Gear casing for corn huskers. 1,701,195; Feb. 5.
- Rosenthal, August, assignor to Rosenthal Manufacturing Co., West Allis, Wis. Corn picker and husker. 1,706,823; Mar. 26.
- Rosenthal, Ben. (See Goldstein, J., and Rosenthal.)
- Rosenthal, Benjamin, New York, N. Y. Index or order sheet and pad. 1,718,706; June 25.
- Rosenthal, Cerf, and H. M. Armistead, San Francisco, Calif., assignors of one-half to J. W. Guiberson and J. C. Sperry. Doorcheck. 1,704,217; Mar. 5.
- Rosenthal, Cerf, and H. McL. Armistead, San Francisco, Calif., assignors to The Condor Company. Door closer. 1,730,948; Oct. 8.
- Rosenthal, Cerf, and H. McL. Armistead, San Francisco, Calif., assignors, by mesne assignments, to The Condor Company. Doorcheck. 1,736,175; Nov. 19.
- Rosenthal, Frank, New York, N. Y. Attachment for stockings. 1,716,007; June 4.
- Rosenthal, Henry, New York, N. Y. Power transmission. 1,730,786; Oct. 8.
- Rosenthal, Henry S., Cincinnati, Ohio. Garment-repair kit. 1,733,825; Oct. 29.
- Rosenthal, Jack, Brooklyn, N. Y., assignor to Henry Lederer & Bro., Inc., Providence, R. I. Automatic lighter. Des. 80,188; Dec. 24.
- Rosenthal, Johann, Frankfort-on-the-Oder, Germany, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for folding edges of sheet material. 1,705,457; Mar. 12.
- Rosenthal, Joseph, et al. (See Heaford, Edwin V., assignor.)
- Rosenthal, Leo, and W. Lenhard, Vohwinkel, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of esters of saccharides of higher unsaturated fatty acids. 1,739,863; Dec. 17.
- Rosenthal Manufacturing Co. (See Rosenthal, August, assignor.)
- Rosenthal Manufacturing Company. (See Trotman, Stafford, assignor.)
- Rosenthal, Morris G., Cleveland, assignor to The Cleveland Crane and Engineering Company, Wickliffe, Ohio. Textile-treating carrier. 1,721,134; July 16.
- Rosenthal, Sallie, Hamburg, Germany. Evaporator. 1,706,939; Mar. 26.
- Rosentreter, Meyer. (See Huber, J., and Rosentreter.)
- Rosenwald, Charles, assignor to Universal Permanent Wave Machine Company, Chicago, Ill. Hair-waving baker. 1,709,878; Apr. 23.
- Rosenwald, Lucian, Kansas City, Mo. Flower support. 1,725,373; Aug. 20.
- Rosenzweig, Fred M. (See Shaver, A. G., and Rosenzweig.)
- Rosenzweig, Fred M., Niagara Falls, assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Induction train-control system. 1,722,827; July 30.
- Rosenzweig, Siegfried, New York, N. Y. Antivibration support. 1,734,596; Nov. 5.
- Roser, Mathias F., Royal Oak, Mich. Convertible packing case. 1,725,211; Aug. 20.
- Roshirt, Randolph J., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Heat treatment of aluminum castings. 1,713,093; May 14.
- Roshon, Russell C., Parnassus, Pa. Bowling alley. 1,711,968; May 7.
- Rosner, Fredrick, Brooklyn, N. Y. Electric pull switch and socket. 1,730,043; Oct. 1.
- Ross, Albert C., Portland, Oreg. Fishway. 1,722,596; July 30.
- Ross, Allen R., Seattle, Wash. Oven door. 1,737,176; Nov. 26.
- Ross, Arthur H., San Leandro, Calif. Aeroplane. 1,731,910; Oct. 15.
- Ross, Benjamin, Brooklyn, N. Y. Heel cushion for shoes. 1,721,714; July 23.
- Ross, Birton M. (See Lippincott, Hazel A., assignor.)
- Ross, Clarence A., Joliet, assignor of one-half to W. F. Horsting, Chicago, Ill. Volume and price recorder. 1,714,731; May 28.
- Ross, Clyde P., Chicago, Ill. Drier. 1,726,505; Aug. 27.
- Ross, Clyde P., assignor to Roberts and Schaefer Company, Chicago, Ill. Hoist. 1,722,235; July 23.
- Ross, Dana W., Chicago, Ill. Dental gauge. 1,726,193; Aug. 27.
- Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Control assembly. 1,702,840; Feb. 19.
- Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Control assembly for steering gears. 1,721,791; July 23.
- Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Control assembly for steering gears. 1,721,792; July 23.
- Ross, David E., and W. Aitkenhead assignors to trustees of Purdue University, LaFayette, Ind. Plow. 1,732,862; Oct. 22.
- Ross, Donald W. (See Lambie, J. M., and Ross.)
- Ross, Donald W. and J. M. Lambie, Washington, Pa. Repairing refractory walls. 1,727,675; Sept. 10.
- Ross, Edward, Scranton, Pa. Stencil device. 1,739,173; Dec. 10.
- Ross, Edwin D., Detroit, Mich. Window. 1,741,479; Dec. 31.
- Ross, Elmer R., assignor to The Raybestos Company, Bridgeport, Conn. Curing friction material. 1,721,135; July 16.
- Ross, Emmett W., Camden, N. J. Safety guard for band saws. 1,731,176; Oct. 8.
- Ross, Ernest. (See Farrand, C. L., and Ross.)
- Ross, Ernest. (See Farrand, C. L., Ross, and Godley.)
- Ross, Ernest, Newark, N. J., assignor to General Electric Company. Vernier drive. 1,713,194; May 14.
- Ross, Floyd H., Formoso, Kans. Nursery chair. 1,718,880; June 25.
- Ross, Frank L. (See Cassetty, W. M., jr., Alford, and Ross.)
- Ross, Frederick M., Cincinnati, Ohio. Rim contracting and expanding tool. 1,736,465; Nov. 19.



- Ross Gear & Tool Company. (See Gruenewald, E. J., and Chandler, assignors.)
- Ross Gear & Tool Company. (See Ross, David E., assignor.)
- Ross, George H., Chicago, Ill. Roach exterminator. 1,700,517; Jan. 29.
- Ross, Hugh M., Woodhaven, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Clutch. 1,701,934; Feb. 12.
- Ross, Hugh M., New York, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Cutting mechanism. 1,723,660; Aug. 6.
- Ross, Hugh M., Richmond Hill, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Feeding device. 1,741,738; Dec. 31.
- Ross, Isidor B., New York, N. Y. Refrigeration. 1,739,017; Dec. 10.
- Ross, J. O., Engineering Corporation. (See Egan, F. W., and Ross, assignors.)
- Ross, James G. (See Martus, M. L., Becker, and Ross.)
- Ross, James G., Seattle, Wash. Sign. Des. 77,913; Mar. 5.
- Ross, James M. (See Wildey, Ira F., assignor.)
- Ross, James T., Duncan, Okla. Gravity motor. 1,734,829; Nov. 5.
- Ross, John C., San Francisco, Calif. Washing-machine drain-valve mechanism. 1,733,672; Oct. 29.
- Ross, John F., jr., and T. C. Billups, Norfolk, Va. Coin cabinet. 1,713,715; May 21.
- Ross, John O. (See Egan, F. W., and Ross.)
- Ross, John W. H. (See Rankine, D., Ross, and Lennard.)
- Ross, Josiah P., Livermore, Ky. Drain-tile cleaner. 1,714,630; May 28.
- Ross-Meehan Foundries. (See Williamson, James C., assignor.)
- Ross, Mortimer G., Brooklyn, N. Y. Grinding machine. 1,719,784; July 2.
- Ross, O. T. (See Ryan, Theodore J., assignor.)
- Ross, Oscar A., New York, N. Y. Packaging means. 1,697,613; Jan. 1.
- Ross, Oscar A., New York, assignor to General Railway Signal Company, Rochester, N. Y. Magnetic car retarder. 1,730,334; Oct. 1.
- Ross, Oscar A., New York, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Alternating-current induction motor or the like. 1,737,128; Nov. 26.
- Ross, Reuben, Brooklyn, N. Y. Radio receiving system. 1,720,150; July 9.
- Ross, Sherman, assignor to The Favorite Stove & Range Company, Piqua, Ohio. Stove-leg construction. 1,732,913; Oct. 22.
- Ross-Tacony Crucible Company. (See Bacon, Charles C., assignor.)
- Ross, Tellie L., Leeper, Mo. Door-operating mechanism. 1,721,473; July 16.
- Ross, Thomas S., St. Louis, Mo. Segment-trimming device. 1,718,382; June 25.
- Ross, Thomas W., University City, Mo. Screw anchor. 1,718,438; June 25.
- Ross, Thorvald S. (See Blanchard, F. C., and Ross.)
- Ross, Vaughn H., Vancouver, British Columbia, Canada. Shingle-packing frame. 1,710,897; Apr. 30.
- Ross, Victor G., Seattle, Wash., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Separating metal sheets. 1,716,602; June 11.
- Ross, Warren A., Long Beach, Calif., assignor of one-fourth to D. M. Carter, Chicago, Ill., and one-fourth to T. O. Boyd, Long Beach, Calif. Drilling device. 1,727,563; Sept. 10.
- Ross, Warren A., Long Beach, Calif., assignor of one-fourth to D. M. Carter, Chicago, Ill., and one-fourth to T. O. Boyd, Long Beach, Calif. Transportation system. 1,734,303; Nov. 5.
- Rossati, Gino M., Padua, Italy, and G. de Blasio, New York, N. Y. Artificial wool. 1,703,693; Feb. 26.
- Rossbacher, Henry J. (See Kirschbraun, L., Rossbacher, and Abson.)
- Rossberg, Charles A., West Hartford, assignor to Veeder-Root Incorporated, Hartford, Conn. Nut lock. 1,716,385; June 11.
- Rossebo, George H. (See Hoke, F., Rossebo, and Collison.)
- Rossebo, George H., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Pop-corn machine. 1,727,521; Sept. 10.
- Rossebo, George H., and H. Waltman, assignors to Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Pop-corn machine. 1,715,390; June 4.
- Rossein, Morris. (See Cohen, P., and Rossein.)
- Rossetti, George, Chicago, Ill. Nut lock. 1,722,541; July 30.
- Rossi, Antonio, Belleville, N. J. Transmission multiplication mechanism. 1,703,016; Feb. 19.
- Rossi, Henry, Schenectady, N. Y. Fishing signal. 1,705,419; Mar. 12.
- Rossi, Paul A., Campbell, Ohio. Insulated cover for electric-lamp sockets. 1,735,656; Nov. 12.
- Rossi, Venzano, Highland Park, Mich. Pipe wrench. 1,700,953; Feb. 5.
- Rossien, Gustave, Edegem lez Anvers, Belgium. Elevator. 1,740,905; Dec. 24.
- Rosskam, Lester G., assignor to Quaker City Chocolate & Confectionery Company, Philadelphia, Pa. Packaging confections. 1,713,301; May 14.
- Rossmann, Paul J., assignor to Badger Auto Service Company, Inc., Milwaukee, Wis. Claim check for parking stations. 1,702,318; Feb. 19.
- Rosson, Joseph L., Dallas, Tex. Saw for delinting machines. 1,706,129; Mar. 19.
- Rost, William J., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Figure wheeled toy. 1,704,019; Mar. 5.
- Rost, William J., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Figure wheeled toy. 1,722,681; July 30.
- Rost, William J., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Figure wheeled toy. 1,723,749; Aug. 6.
- Rostas, Alois, Trenton, N. J. Carburetor-lock mechanism. 1,711,395; Apr. 30.
- Rostek, Vincent R., Philadelphia, Pa. Cooler for stills. 1,727,179; Sept. 3.
- Roster, Henry, Oak Park, Ill. Raising device for portable conveyers. 1,698,024; Jan. 8.
- Rostin, Heliodor, Charlottenburg, near Berlin, Germany. Conversion or purification of hydrocarbon fluids. 1,732,111; Oct. 15.
- Rostron, Joseph A., Cambridge, Mass. Lead-in for radio apparatus. 1,715,952; June 4.
- Rostron, Robert, assignor to Crerar, Adams & Co., Chicago, Ill. Bonding drill. 1,717,626; June 18.
- Rota, Tony, Seattle, Wash. Locking tile. 1,722,682; July 30.
- Rotary Carton Machine Company. (See Hicks, Thomas W., assignor.)
- Rotary Machine & Engineering Company, The. (See Roessler, Amandus C., assignor.)
- Rotary Motors Company. (See Bullard, Herbert A., assignor.)
- Rotary Printing Company, The. (See Bailey, William T., assignor.)
- Rotellini, Martin, New York, N. Y., assignor to Halcolite Company, Inc. Lighting-fixture plate or article of analogous nature. Des. 77,914; Mar. 5.
- Rotellini, Martin, New York, N. Y., assignor to Halcolite Company, Inc. Lighting-fixture wall bracket or article of analogous nature. Des. 77,915; Mar. 5.
- Rotellini, Martin S., Brooklyn, N. Y., assignor to Halcolite Company, Inc. Lighting-fixture streamer or article of analogous nature. Des. 79,986; Nov. 26.
- Rotermund, Martin C., Seattle, Wash. Golf device. 1,721,041; July 16.
- Roth, Albert, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Radio tuning system. 1,724,371; Aug. 13.
- Roth Brothers & Co. (See Roth, Ch. H., and Schiff, as signors.)
- Roth, Charles C., deceased; W. Grahn, administrator, assignor, by mesne assignments, to Peat Products Company, Westfield, Wis. Making paper out of peat. 1,721,974; July 23.
- Roth, Charles H., and M. Schiff, assignors to Roth Brothers & Co., Chicago, Ill. System of control for electric-elevator equipment. 1,701,730; Feb. 12.
- Roth, Clarence P., Bentleyville, Pa. Hoop trundle. 1,714,448; May 21.
- Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose coupler. 1,733,390; Oct. 29.
- Roth, Ernest W., assignor to General Petroleum Corporation of California, Los Angeles, Calif. Floating pressure and vacuum relief valve. 1,727,785; Sept. 10.
- Roth, Ernst, Lautawerk, Germany. Disintegrating machine. 1,723,443; Aug. 6.
- Roth, Frederick A., Bemidji, Minn. Can-opening device. 1,707,946; Apr. 2.
- Roth, G. A., Manufacturing Co. (See Roth, Gilbert A., assignor.)
- Roth, Gilbert A., assignor to G. A. Roth Manufacturing Co., Hastings, Nebr. Automobile awning. 1,741,202; Dec. 31.
- Roth, Herman, assignor to Electro Flushing & Manufacturing Company, Milwaukee, Wis. Plumbing fixture. 1,707,541; Apr. 2.
- Roth, Hermann C., Dormont, Pa. Manufacture of chromic oxide. 1,728,510; Sept. 17.
- Roth, Irving, New York, N. Y. Watchcase. Des. 79,166; Aug. 6.
- Roth, Isidor, Brooklyn, N. Y., assignor to Benjamin & Johns. Brassiere and similar garment. 1,698,070; Jan. 8.
- Roth, Isidor, Brooklyn, N. Y., assignor to Benjamin & Johns. Hose supporter. 1,698,071; Jan. 8.
- Roth, Joseph, New York, N. Y. Unbreakable illuminated electric sign. 1,723,952; Aug. 6.
- Roth, Louis, Elizabeth, N. J., assignor, by mesne assignments, to The Frink Corporation, New York, N. Y. Light fixture for beds and other furniture. 1,697,884; Jan. 8.
- Roth Manufacturing Company. (See Roth, Edward N., assignor.)
- Roth, Martin, Hollywood, Calif. Clip machine. 1,719,561; July 2.
- Roth, Max. (See Scharf, J. B., and Roth.)
- Roth, Robert B., Thomas, W. Va. Emergency repair link. 1,734,830; Nov. 5.
- Roth, Simon, assignor of sixty-six and two-thirds per cent to E. Fisher, Brooklyn, N. Y. Heel for footwear. 1,720,526; July 9.
- Rothacker, Edward P., Cleveland, Ohio. Flask guide. 1,723,809; Aug. 6.
- Rothauszky, Simon, and J. Schler, Akron, Ohio. Adjustable sectional bed. 1,740,906; Dec. 24.



- Rothchild, Aaron, and B. Sklerov, New York, N. Y. Bathing appliance. 1,712,521; May 14.
- Rothe, Fritz, Berlin, and H. Brenek, Porz, near Cologne, assignors to the firm: Rheuania Kunkelm Verein Chemischer Fabriken A. G., Berlin, Germany. Preparing fertilizer. 1,696,975; Jan. 1.
- Rothe, Fritz, Aachen, and H. Brenek, Porz, near Cologne, assignors to the firm: Rheuania Verein Chemischer Fabriken A. G., Cologne, Germany. Preparing fertilizers. 1,704,218; Mar. 5.
- Rothenberg, Daniel M., Leesport, Pa. Rotary engine. 1,738,320; Dec. 3.
- Rothenducher, George E. R., Elgin, Ill. Check valve. 1,703,248; Feb. 26.
- Rother, Erich, assignor to the firm Neufeldt & Kuhnke Betriebsgesellschaft m. b. H., Kiel, Germany. Asynchronous machine with condensers. 1,715,866; June 4.
- Rothermel, Herman, Hempstead, N. Y. Combination putty knife and paint scraper. 1,710,113; Apr. 23.
- Rothfus, Raber E., Buffalo, N. Y. Cover for hose connections. 1,712,232; May 7.
- Rothholz, Gustav, Baltimore, Md., and W. A. Rothholz, New York, N. Y. Sponging machine. 1,721,136; July 16.
- Rothholz, William A. (See Rothholz, Gustave and W. A.)
- Rothlin, Ernst. (See Burckhardt, E., Müller, and Rothlin.)
- Rothlin, Ernst, and F. Miller, assignors to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Acridine derivative for therapeutical purposes. 1,738,449; Dec. 3.
- Rothlin, Ernst, and F. Müller, assignors to the firm of Chemical Works, formerly Sandoz, Basel, Switzerland. Derivative of thiazines. 1,737,475; Nov. 26.
- Rothman, Arthur G., and C. H. Carter, Hammond, Ind., assignors of one-third to A. Van Proyen, Chicago, Ill. Food-dispensing table. 1,737,806; Dec. 3.
- Rothman, Nathan, San Francisco, Calif. Wearing apparel. 1,725,306; Aug. 20.
- Rothman, Rose, New York, N. Y. Garment supporter. 1,724,728; Aug. 13.
- Rothmann, Charles, Closter, N. J. Roadway with improved curbstone and gutter. 1,707,574; Apr. 2.
- Rothoff, Albin C., assignor to Wetter Numbering Machine Company, Brooklyn, N. Y. Numbering machine. 1,708,154; Apr. 9.
- Rothrock, Edgar, La Verne, Calif. Receptacle. 1,709,685; Apr. 16.
- Rothrock, George L., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Brake-anchor adjustment. 1,727,787; Sept. 10.
- Rothrock, Henry L., Chicago, Ill. Sanding device. 1,702,272; Feb. 19.
- Rothstein, Anna, Chicago, Ill. Undergarment. 1,699,923; Jan. 22.
- Rothstein, Sarah D., Gainesville, Ga. Toilet accessory. 1,699,992; Jan. 22.
- Rotner, Irving E., New York, N. Y. Headrest cover for dental chairs. 1,733,826; Oct. 29.
- Rotole, Leo, Detroit, Mich. License plate. 1,699,023; Jan. 15.
- Rotor Air Tool Company, The. (See Cook, Hal L., assignor.)
- Rotor Air Tool Company, The. (See Moore, Edward J. and R. H., assignors.)
- Rotor Air Tool Company. (See Van Hamersveld, John J. N., assignor.)
- Rotorite Corporation. (See Cuthbert, Joseph W., assignor.)
- Roto Tray Company. (See Bauspies, Raymond C., assignor.)
- Rottenberg, Irwin, New York, N. Y. Yarn anchor for knitting machines. 1,727,905; Sept. 10.
- Rotenburg, Léon M. E., Ixelles-Brussels, Belgium. Race game. 1,697,023; Jan. 1.
- Rotter, Max, Milwaukee, Wis., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Reversible combustion engine. 1,731,270; Oct. 15.
- Rottgardt, Karl, Dahlem, near Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Vacuum tube for amplification and oscillation generation. 1,716,153; June 4.
- Rottgardt, Karl, Dahlem, near Berlin, and L. Kühn, Charlottenburg, near Berlin, assignors to Dr. Erich F. Huth G. m. b. H., Berlin, Germany. Controlling discharge gaps. 1,720,351; July 9.
- Rottmer, Henry E., Washington, D. C. Shackles. 1,719,673; July 2.
- Rouanet, Louis, assignor to Compagnie d'Applications Mécaniques, Ivry-Port, France. Manufacturing bearing cages. 1,699,571; Jan. 22.
- Rouanet, Louis, assignor to Compagnie d'Applications Mécaniques, Ivry-Port, France. Shock absorber. 1,720,094; July 9.
- Rouanet, Louis, assignor to Compagnie d'Applications Mécaniques, Ivry-Port, France. Mounting of shock absorbers. 1,727,445; Sept. 10.
- Rouanet, Louis, assignor to Compagnie d'Applications Mécaniques, Ivry-Port, France. Rolling-member bearing with two-piece welded. 1,733,673; Oct. 29.
- Rouanet, Louis, assignor to Compagnie d'Applications Mécaniques, Ivry-Port, France. Brake for motor-vehicle wheels. 1,735,507; Nov. 12.
- Rouch, Verner E., assignor of one-half to G. L. Dice, South Bend, Ind. Tire alarm. 1,734,348; Nov. 5.
- Roučka, Erich, Blansko, Czechoslovakia. Regulating apparatus for steam condensers. 1,719,138; July 2.
- Roučka, Erich, Blansko, Czechoslovakia. Combustion-controlling apparatus. 1,719,139; July 2.
- Rouiller, Albert, Paris, France. Apparatus for enabling long endless bands of flexible material to be circulated in reduced spaces. 1,713,921; May 21.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Thermionic device. 1,711,969; May 7.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Radio signaling system. 1,712,051; May 7.
- Round, Henry J., London, England, assignor to Radio Corporation of America. Telephone and the like. 1,713,006; May 14.
- Round, Henry J., assignor to Marconi's Wireless Telegraph Company, Limited, London, England. Gramophone-record-cutting device and the like. 1,713,195; May 14.
- Round, Henry J., Muswell Hill, London, England, assignor to Radio Corporation of America. Acoustic instrument. 1,732,029; Oct. 15.
- Rounsberg, Anton, and W. Robb, Bingham, Nebr. Gate. 1,714,820; May 28.
- Rounseville, Phillip, Pinehurst, N. C. Archery bow. 1,709,630; Apr. 16.
- Rountree, Joseph G., Beeville, Tex. Gardening implement. 1,713,396; May 14.
- Rountree, Joseph G., Beeville, Tex. Cotton-harvesting machine. 1,713,397; May 14.
- Rountree, Joseph G., Beeville, Tex. Cotton-harvesting machine. 1,713,398; May 14.
- Rouse, H. B., and Company. (See Rouse, Harry B., assignor.)
- Rouse, Harry B., assignor to H. B. Rouse & Company, Chicago, Ill. Printer's composing stick. 1,711,543; May 7.
- Rouse, John H., assignor to R-K Manufacturing Company, San Francisco, Calif. Terminal insulation cover. 1,705,159; Mar. 12.
- Rousey, Samuel J., Lawrenceville, Ill. Leak stop for use with pipes. 1,727,038; Sept. 3.
- Roushar, Joseph C., S. M. Koutnik, Cedar Rapids, and M. M. Blackburn, Davenport, Iowa; said Blackburn assignor to said Roushar and said Koutnik. Magazine and book rack. 1,725,422; Aug. 20.
- Rousseau, Bernard, Elmira, N. Y. Ginger guard for die-stamping presses. 1,707,321; Apr. 2.
- Rousseau, Stanislas, Alton, assignor to Western Cartridge Company, East Alton, Ill. Bullet for high-power rifles. 1,715,788; June 4.
- Routt, Joseph R., Memphis, Tenn. Bottle. Des. 78,314; Apr. 16.
- Routt, Orville L. (See Greenleaf, R. M., and Routt.)
- Roux, Octave R., Garches, France, assignor to Motor Research Company, New York, N. Y. Rotary valve. 1,709,879; Apr. 23.
- Roux, William S. (See Damuth, E. J., and Roux.)
- Rovano, Peter, Chicago, Ill. Funnel. 1,705,312; Mar. 12.
- Royere, Lewis H., Richmond, N. Y., E. V. Mott, Metuchen, N. J., and R. C. Ayers, Brooklyn, assignors to The Western Union Telegraph Company, New York, N. Y. Electrical protective device. 1,729,053; Sept. 24.
- Rovig, Henrik O., Oslo, Norway. Machine for cutting off bands. 1,733,816; Oct. 29.
- Rowan, Colonel G., Kansas City, Mo. Thermostat-controlled alarm. 1,705,837; Mar. 19.
- Rowan, Edward H. (See Craig, John M., assignor.)
- Rowan, Eugene J., Rockville Center, N. Y. Steam generator. 1,741,657; Dec. 31.
- Rowan, Peyton, Los Angeles, Calif. Multiple-record-playing phonograph. 1,710,072; Apr. 23.
- Rowand, Thomas A., Pittsburgh, Pa. Agitator aerator for liquids. 1,726,125; Aug. 27.
- Rowart, Eugène, Auvclais, Belgium. Apparatus for grinding, smoothing, and polishing plates of glass, marble, or other similar materials. 1,738,730; Dec. 10.
- Rowe, Ambrose L., Detroit, Mich. Ice saw and crusher. 1,697,290; Jan. 1.
- Rowe, Ambrose L., Detroit, Mich. Rapid-transit system. 1,741,203; Dec. 31.
- Rowe, Andrew R., Midland, Pa. Apparatus for casting metal products. 1,702,576; Feb. 19.
- Rowe, Andrew R., Midland, Pa. Feeder for ingot molds. 1,730,384; Oct. 8.
- Rowe, Andrew R., Midland, Pa. Hot-top-holding clip. 1,738,209; Dec. 3.
- Rowe, Bert L., Barstow, Calif. Machine for upsetting draw bars. 1,721,042; July 16.
- Rowe, Charles E., Austin, Tex. Drafting instrument. 1,721,793; July 23.
- Rowe, Ernest J., Helena, Mont. Pantographic apparatus. 1,698,278; Jan. 8.
- Rowe, William A., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Heating apparatus. 1,699,719; Jan. 22.
- Rowe, William A., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Air-heating apparatus. 1,714,695; May 28.
- Rowe, William A., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Air cooling and washing fan. 1,717,412; June 18.
- Rowe, William H., Los Angeles, Calif. Coin-controlled mechanism. 1,708,741; Apr. 9.
- Rowe, William H., Los Angeles, Calif. Vending machine. 1,714,631; May 28.



- Rowe, William H., Los Angeles, Calif. Coin-controlled mechanism. 1,722,313; July 30.
- Rowe, William W., assignor to The Paper Service Company, Cincinnati, Ohio. Shipping container. 1,723,255; Aug. 6.
- Rowell, Grace C. (See Anderson, Sigurd E., assignor.)
- Rowell, Myrtle, Berkeley, Calif. Statuette. Des. 77,860; Feb. 26.
- Rowell, Ralph M., Lynn, Mass., assignor to General Electric Company. Telemetric summation system. 1,732,987; Oct. 22.
- Rowland, Albert L. (See Muller, Lewis J., assignor.)
- Rowland, Helen S., St. Petersburg, Fla. Hairpin barrette. 1,718,836; June 25.
- Rowland, Horace B., Warren, Pa. Machine for forming fire-retarding strips. 1,701,638; Feb. 12.
- Rowland, Jasper M., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Process and apparatus for controllably feeding gases. 1,736,509; Nov. 19.
- Rowland, John D. (See Driver, Charles H., assignor.)
- Rowland, Sylvester H., Bath, Me. Switch control. 1,710,191; Apr. 23.
- Rowland, Sylvester H., Bath, Me. Electric vaporizer. 1,728,446; Sept. 17.
- Rowlandson, Charles W. St. J. (See Grist, Charles J., assignor.)
- Rowlidge, Arthur J., Ellerslie, assignor to Rolls-Royce Limited, Derby, England. Brake for vehicles. 1,731,177; Oct. 8.
- Rowles, Walter M., Onawa, Iowa. Animal feeder. 1,701,338; Feb. 5.
- Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. By-pass check valve for sprinkler systems. 1,720,444; July 9.
- Rowley, Clifford A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Cutting and measuring apparatus for sheet glass. 1,710,898; Apr. 30.
- Rowley, Clifford A., assignor to the Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,720,527; July 9.
- Rowley, Harry, assignor to The Hamilton Manufacturing Company, Two Rivers, Wis. Table. 1,714,244; May 21.
- Rowley, Harry M., assignor to The Sandage Company, Chicago, Ill. Gas space heater. 1,703,900; Mar. 5.
- Rowley, James F., Chicago, Ill. Artificial-limb-locking mechanism. 1,722,017; July 23.
- Rowley, James F., Chicago, Ill. Artificial-limb-locking device. 1,723,491; Aug. 6.
- Rowley, William S., and H. W. Butterworth, jr., Philadelphia, Pa., assignors to H. W. Butterworth & Sons Company. Treating textile fabrics. 1,741,338; Dec. 31.
- Rowson, Charles R. (See Oldfield, L., and Rowison.)
- Rowney, William H., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,717,264; June 11.
- Rowntree, Bernard, Carmel Highlands, Calif. Signaling apparatus. 1,710,192; Apr. 23.
- Rowntree, Harold, Scarsdale, assignor to National Pneumatic Company, New York, N. Y. Door-operating means. 1,702,577; Feb. 19.
- Rowntree, Harold, Scarsdale, assignor to National Pneumatic Company, New York, N. Y. Door-operating system. 1,737,433; Nov. 26.
- Rowntree, Harold, Scarsdale, N. Y., and J. H. Vander Veer, Westfield, N. J., assignors to National Pneumatic Company, New York, N. Y. Multiple-unit control for vehicle doors. 1,715,515; June 4.
- Rowse, Frank J., Pawtucket, R. I. Package for vending machines. 1,700,809; Feb. 5.
- Roy, George C., Brooklyn, N. Y. Iron-bending machine. 1,717,735; June 18.
- Roy, Leo, C. A., Jennings, and M. H. Lizyness, Detroit, Mich. Recorder. 1,707,356; Apr. 2.
- Roy, Wilfred J., East Orange, assignor to Gemex Company, Newark, N. J. End hook. 1,701,339; Feb. 5.
- Royal, Charles B., Chicago, Ill. Lubricator for railway journal boxes. 1,720,445; July 9.
- Royal Comb Company. (See Holden, Crofton C., assignor.)
- Royal Electric Manuf. Co. (See Thomas, Cyril H., assignor.)
- Royal, Joseph N., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Canada. Composite figure construction. 1,709,543; Apr. 16.
- Royal Metal Works. (See Clausing, Louis F., assignor.)
- Royal Products, Inc. (See Youngren, Oscar A., assignor.)
- Royal Railway Improvements Corporation. (See Sauvage, William H., assignor.)
- Royal, Thomas M., & Co. (See Beckmann, August, assignor.)
- Royal Typewriter Company. (See Degener, Gustave O., assignor.)
- Royal Typewriter Company. (See Handley, George F., assignor.)
- Royal Typewriter Company. (See Kupper, William H., assignor.)
- Royal Typewriter Company. (See Michelsen, William O., assignor.)
- Royal Typewriter Company. (See Myers, Lewis C., assignor.)
- Royalty Holding Corporation. (See Hasselbring, John, jr., assignor.)
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls Royce Limited, Derby, England. Steering mechanism for self-propelled vehicles. 1,700,598; Jan. 29.
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Nightingale Road, Derby, England. Ignition apparatus for internal-combustion engines. 1,701,697; Feb. 12.
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Internal-combustion engine. 1,708,901; Apr. 9.
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Device to control the front axles of road vehicles. 1,716,836; June 11.
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Internal-combustion engine. 1,717,068; June 11.
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Change-speed gearing. 1,731,151; Oct. 8.
- Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Nightingale Road, Derby, England. Brake for vehicles. 1,731,178; Oct. 8.
- Royer Foundry and Machine Co. (See Royer, George F., assignor.)
- Royer, Frank S., Chicago, Ill. Hull for speed boats. 1,712,281; May 7.
- Royer, George F., Wilkes-Barre, Pa. Preparing molding sand. 1,703,956; Mar. 5.
- Royer, George F., assignor to Royer Foundry & Machine Co., Wilkes-Barre, Pa. Sand separating and blending means. 1,713,449; May 14.
- Royer, George F., assignor to Royer Foundry & Machine Co., Wilkes-Barre, Pa. Apparatus for preparing molder's sand. 1,729,361; Sept. 24.
- Royer, George F., assignor to Royer Foundry and Machine Co., Wilkes-Barre, Pa. Separator for granular material. 1,736,054; Nov. 19.
- Royer, George F., assignor to Royer Foundry and Machine Co., Wilkes-Barre, Pa. Apparatus for treating and blending molder's sand. 1,736,055; Nov. 19.
- Royer, Harry B., New York, N. Y. Metal-cutting apparatus. 1,698,173; Jan. 8.
- Royle, Alan G., Irlam, near Manchester, England. Twin strainer and valve for water mains and the like. 1,721,233; July 16.
- Royle, George, jr. (See Neville, George W., assignor.)
- Royle, Vernon, Paterson, N. J. Strainer head for tubing machines. 1,724,967; Aug. 20.
- Royle, Vernon, Paterson, N. J. Strainer head for extruding machines. 1,732,618; Oct. 22.
- Royse, Ralph E., Tacoma, Wash. Combined steam electric drive for generator sets. 1,714,449; May 21.
- Rozankovich, Thomas, Galveston, Tex. Spring wheel. 1,742,100; Dec. 31.
- Ruau, Félix E., Deptford, London, assignor to Molins Machine Company Limited, London, England. Cigarette-making machinery. 1,713,196; May 14.
- Rubber Latex Research Corporation. (See Wescott, William B., assignor.)
- Rubber Service Laboratories, The. (See Bartram, T. W., and Roberts, assignors.)
- Rubber Service Laboratories Co., The. (See Bartram, T. W., and Weltman, assignors.)
- Rubber Service Laboratories Co., The. (See Hand, C. N., Bartram, and Maude, assignors.)
- Rubber Service Laboratories Co., The. (See Hand, C. N., and Smith, assignors.)
- Rubber Service Laboratories Co., The. (See Hand, Carl N., assignor.)
- Rubber Service Laboratories Company, The. (See Maude, Aylmer H., assignor.)
- Rubber Service Laboratories Company, The. (See North, Clayton O., assignor.)
- Rubber Service Laboratories Co., The. (See North, C. O., and Christensen, assignors.)
- Rubber Service Laboratories Co., The. (See North, C. O., and Scott, assignors.)
- Rubber Service Laboratories Co., The. (See Roberts, H. P., and Merkle, assignors.)
- Rubber Service Laboratories Company, The. (See Scott, Winfield, assignor.)
- Rubber Service Laboratories Company, The. (See ter Horst, William P., assignor.)
- Rubber Service Laboratories Co., The. (See Vignos, James C., assignor.)
- Rubber Shock Insulator Corporation, The. (See Edson, William R., assignor.)
- Rubber Shock Insulator Corporation, The. (See Leipert, August H., assignor.)
- Rubber Shock Insulator Corporation, The. (See Lipcot, Fred L., assignor.)
- Rubel, Albert C., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Soaking method for initiating gas lift in oil wells. 1,740,039; Dec. 17.
- Rubel, Charles F., assignor to Union Special Machine Company, Chicago, Ill. Thread-lubricating device for sewing machines. 1,703,781; Feb. 26.
- Rubel, Charles F., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing machines. 1,707,068; Mar. 26.
- Rubel, Charles F., assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing machines. 1,736,466; Nov. 19.



- Rubel, James L., Chicago, assignor to Apex Stamping Company, Riverdale, Ill. Soldering stand. 1,697,966; Jan. 8.
- Ruben Patents Company. (See Ruben, Samuel, assignor.)
- Ruben Rectifier Corporation. (See Ruben, Samuel, assignor.)
- Ruben, Samuel, New York, N. Y. Method and apparatus for promoting chemical reactions. 1,702,950; Feb. 19.
- Ruben, Samuel, New York, N. Y. Sound-emitting apparatus. 1,702,951; Feb. 19.
- Ruben, Samuel, New York, N. Y. Vacuum tube. 1,705,538; Mar. 19.
- Ruben, Samuel, New York, N. Y. Electric-current-control apparatus. 1,705,539; Mar. 19.
- Ruben, Samuel, New York, N. Y. Electrical condenser. 1,710,073; Apr. 23.
- Ruben, Samuel, New York, N. Y. Electrical condenser. 1,714,191; May 21.
- Ruben, Samuel, New York, N. Y. Electrostatic condenser. 1,714,319; May 21.
- Ruben, Samuel, New York, N. Y. Electrical condenser. 1,715,789; June 4.
- Ruben, Samuel, New York, N. Y. Method and apparatus for refrigeration. 1,717,584; June 18.
- Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,723,525; Aug. 6.
- Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,723,579; Aug. 6.
- Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,723,580; Aug. 6.
- Ruben, Samuel, assignor to Ruben Patents Company, New York, N. Y. Vacuum-tube relay. 1,739,043; Dec. 10.
- Ruben, Samuel, assignor to Ruben Tube Company, New York, N. Y. Treating electron-emission elements. 1,739,044; Dec. 10.
- Ruben, Samuel, assignor to Ruben Patents Company, New York, N. Y. Electron-tube apparatus. 1,740,202; Dec. 17.
- Ruben Tube Company. (See Ruben, Samuel, assignor.)
- Rubenstein, Philip, Brookline, Mass. Covering for furniture. 1,698,968; Jan. 15.
- Rubin, Abraham J., assignor of one-third to N. S. Goldstein and one-third to L. S. Heller, New York, N. Y. Electric toaster. 1,697,024; Jan. 1.
- Rubin, Adolph, assignor to Sieber Products Manufacturing Company, St. Louis, Mo. Loose-leaf binder. 1,698,197; Jan. 8.
- Rubin, David, New York, N. Y. Window screen. 1,700,909; Feb. 5.
- Rubin, Harold, New York, N. Y. Dancing shoe. 1,723,375; Aug. 6.
- Rubin, Harry, Brooklyn, N. Y. Bedstead. 1,715,342; May 28.
- Rubin, Herman H., New York, N. Y. Assist grip. 1,703,321; Feb. 26.
- Rubin, Jacob, Philadelphia, Pa. Legging spat. 1,706,709; Mar. 26.
- Rubin, Jacob, Charleston, W. Va. Hat holder. 1,732,863; Oct. 22.
- Rubin, Samuel, Brooklyn, N. Y. Automobile safety apparatus. 1,713,433; May 14.
- Rubin, Samuel, Brooklyn, N. Y. Automobile fender. 1,713,484; May 14.
- Rubin, Samuel L., Winnipeg, Manitoba, Canada, assignor to I. Wilensky, Devils Lake, N. Dak. Box-spring mattress. 1,741,038; Dec. 24.
- Rubino, Charles E., Chicago, Ill. Lamp. Des. 78,482; May 7.
- Rubio, Andrew F., San Diego, Calif. Direction signal. 1,705,142; Mar. 12.
- Rubrecht, Alvin. (See Augsburg, W. R., and Rubrecht.)
- Ruby, Arthur H., assignor, by mesne assignments, to Continental Oil Company, Ponca City, Okla. Gas separator. 1,739,093; Dec. 10.
- Rubyette Co., The. (See Steinwand, Otto J., assignor.)
- Ruchie, Henry J., assignor of one-half to G. Gerlach, St. Paul, Minn. Storm window and screen structure. 1,699,079; Jan. 15.
- Rucker, Henry Q., Cleveland, Ohio. Tableware tray. Des. 78,125; Mar. 26.
- Ruckstuhl, Alwin, Winterthur, Switzerland. Control for electrically-driven compressors. 1,737,335; Nov. 26.
- Ruda, Gustaf W., Sodertelje, assignor to Aktiebolaget Baltic, Stockholm, Sweden. Reducing the froth formation at centrifugal liquid separators and the like. 1,718,081; June 18.
- Rudd, Harry B., New York, N. Y. Paper receptacle. 1,724,517; Aug. 13.
- Rudd, Harry B., Mansfield, Ohio, assignor to Electropure Corporation, Detroit, Mich. Apparatus for sterilizing liquids. 1,730,016; Oct. 1.
- Rudderham, Charles G., New Rochelle, N. Y., assignor to Associated Merchandising Corporation. Lock for traveling cases or the like. Des. 73,483; May 7.
- Ruddick, Harold G. (See Heath, H. C., Regis, and Ruddick.)
- Ruddick, John J., West Newton, Mass., assignor to General Street Signal Corporation, Rochester, N. Y. Traffic-signaling system. 1,704,104; Mar. 5.
- Rüdenberg, Reinhold, Berlin-Grunewald, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric discharge tube. 1,707,141; Mar. 26.
- Rüdenberg, Reinhold, Berlin-Grunewald, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Mercury-vapor rectifier plant. 1,707,142; Mar. 26.
- Rüdenberg, Reinhold, Berlin-Grunewald, Germany, assignor to Westinghouse Electric & Manufacturing Company. Thermoelectric apparatus. 1,717,413; June 18.
- Ruder, William E., Schenectady, N. Y., assignor to General Electric Company. Heat-resisting material. 1,706,130; Mar. 19.
- Ruderman, Aaron, New York, N. Y. Paper-coating composition. 1,723,581; Aug. 6.
- Rudesyle, Peter M., Hawthorne, N. J. High-pressure pump. 1,735,299; Nov. 12.
- Rudge-Whitworth, Limited. (See Pugh, John V., assignor.)
- Rudge-Whitworth, Limited. (See Pugh, J. V., and Anstey, assignors.)
- Rudge, Whitworth, Limited. (See Pugh, J. V., and Whitmill, assignors.)
- Rudge, William J., jr. (See Wade, E. J., and Rudge.)
- Rudin, Karl V., Stockholm, Sweden. Carrying mechanism for calculating machines. 1,711,210; Apr. 30.
- Rudkin, William P., Oklahoma City, Okla. Internal-combustion engine. 1,704,951; Mar. 12.
- Rudkin, William P., Oklahoma City, Okla. Underreamer for wells. 1,710,998; Apr. 30.
- Rudlin, Frederick W., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,711,811; May 7.
- Rudman, Harry. (See Mirkin, Max, assignor.)
- Rudnick, Paul, et al. (See Hershman, Paul R., assignor.)
- Rudolf, Barney, Bayonne, N. J. Combined level and square. 1,735,413; Nov. 12.
- Rudolph, Alfred F., Denver, Colo. Hand-operated vacuum massage device. 1,730,535; Oct. 8.
- Rudolph, Corrie F. (See Troger, A. M., and Rudolph.)
- Rudolph, Walter H. (See Cave, H., and Rudolph.)
- Rudolph, Wilhelm. (See Hecht, H., and Rudolph.)
- Ruess, Ernst, Munich, Germany. Carrying body for rigid airships. 1,740,839; Dec. 24.
- Rue, Hans, Long Beach, Calif. Spark indicator. 1,715,249; May 28.
- Rue, John D., Madison, Wis., S. D. Wells, Quincy, Ill., and F. G. Rawling, Madison, Wis. Fibrous material for odorless containers. 1,724,778; Aug. 13.
- Ruegger, Ernest, Creswell, Oreg. Advertising device. 1,699,857; Jan. 22.
- Ruehlmann, Louis E. (See McCulley, C., and Ruehlmann.)
- Ruelland, Albertine, New York, N. Y. Stand for irons. 1,708,957; Apr. 16.
- Rueppel, Frederick, Halfway, assignor to French Road Company, Detroit, Mich. Burner structure. 1,735,182; Nov. 12.
- Ruettimann, Joseph B., St. Paul, Minn. Rail joint. 1,735,586; Nov. 12.
- Ruetz, George D., Racine, Wis. Combined automatic and manual control for drink mixers. 1,697,515; Jan. 1.
- Ruetz, George D., assignor of one-third to J. J. Heinisch, Racine, Wis. Drink mixer. 1,711,396; Apr. 30.
- Ruf, Cristian E., Poughkeepsie, N. Y., assignor to Standard Gage Company, Inc. Gearing. 1,724,518; Aug. 13.
- Ruf, Herman P., New York, N. Y. Combined ash tray, cigar holder, and drill. Des. 78,406; Apr. 30.
- Ruf, Herman P., New York, N. Y. Cord machine. 1,736,221; Nov. 19.
- Ruf, Laud E., San Jose, Calif. Cuspidor. 1,737,059; Nov. 26.
- Ruff, Alonzo W., York, Pa. Nail-driving apparatus. 1,703,458; Feb. 26.
- Ruff, Frederick A., Belleville, N. J. Luggage carrier. 1,704,345; Mar. 5.
- Ruff, Wilfred, Crane Valley, Canada. Boat paddle. 1,726,239; Aug. 27.
- Ruffalo, John B., New York, N. Y. Card-classifying apparatus. 1,702,748; Feb. 19.
- Ruffin, Allen F., and A. L. Weckler, assignors to Scovill Manufacturing Company, Waterbury, Conn. Atomizer support or similar article. Des. 79,308; Aug. 27.
- Ruffing, John, sr., Nokomis, Ill. End gate or extension for mine cars. 1,737,060; Nov. 26.
- Ruffio, Louis, New York, N. Y. Attachment for hair-drying machine. Re17,447; Oct. 1.
- Ruga, William A., and A. F. Heinemann, Phillips, Wis. Heater for windshields. 1,700,544; Jan. 29.
- Rugg, Harry M. (See Kemball, W. F., and Rugg.)
- Rugg, Walter S. (See Murray, H. J., and Rugg.)
- Rüggeberg, Paul, Berlin-Tempelhof, Germany. Welding rails. 1,741,437; Dec. 31.
- Ruggiero, Anthony, Rochester, N. Y. Shoe. 1,728,366; Sept. 17.
- Ruggles, Horatio B., Wollaston, Mass. Check punch. 1,721,055; July 16.
- Ruggles, John M., Three Rivers, Mich. Die shoe and guide for punch presses. 1,729,898; Oct. 1.
- Ruggles-Klingemann Mfg. Company. (See Kimball, James L., assignor.)
- Ruggles, Leonard L., Wheaton, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,721,640; July 23.
- Ruggles, Leonard L., Wheaton, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,723,209; Aug. 6.
- Ruggles, Leonard L., Wheaton, assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,729,858; Oct. 1.



- Ruggles, William A., Schenectady, N. Y., assignor to General Electric Company. Electrode lead. 1,706,184; Mar. 19.
- Ruggles, William A., Schenectady, N. Y., assignor to General Electric Company. Producing high vacuums. 1,712,403; May 7.
- Rugh, John M., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Method of and means for drying. 1,730,902; Oct. 8.
- Ruhl, Edward L. and E. D., Chicago, Ill. Aeroplane construction. 1,713,450; May 14.
- Ruhl, Eva D. (See Ruhl, Edward L. and E. D.)
- Rubland, John F., assignor to John Ebberts Shoe Company, Buffalo, N. Y. Shoe. 1,725,767; Aug. 27.
- Rühlmann, Herbert, Sommerda, assignor to Rheinische Metallwaren und Maschinenfabrik, Düsseldorf-Derendorf, Germany. Electric percussion fuse. 1,704,302; Mar. 5.
- Rühlmann, Herbert, Sommerda, assignor to Rheinische Metallwaren und Maschinenfabrik, Düsseldorf-Derendorf, Germany. Electric fuse for projectiles. 1,711,693; May 7.
- Ruhmann, Gustav E., Schulenburg, Tex. Incinerator. 1,732,938; Oct. 22.
- Rühr, Arnold, Berlin, Germany, assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler furnace. 1,698,565; Jan. 8.
- Ruibley, Elliot F., Toledo, Ohio. Pipe system for hot-air heating. 1,736,222; Nov. 19.
- Rukavina, Ferdinand, Cleveland, Ohio. Automobile body. Des. 79,167; Aug. 6.
- Rukenbrod, Cornelius J., Princeton, assignor to The Electric Porcelain and Manufacturing Company, Trenton, N. J. Testing the flux of materials under heat. 1,738,321; Dec. 3.
- Rule, Monroe, Sweetwater, Tex. Plaster-board-edge protection. 1,730,629; Oct. 8.
- Rülke, Kurt. (See Gerngross, O., and Rülke.)
- Rullmann, Edward P., Milwaukee, Wis. Automobile signal. 1,730,901; Oct. 8.
- Rumble, Alex C., assignor of one-half to W. E. Lauer, Los Angeles, Calif. Automatic disconnecting pot head. 1,711,397; Apr. 30.
- Rumble, Alex C., Los Angeles, Calif. Splice head for electric cables. 1,735,317; Oct. 29.
- Rumely, Cornelius F., assignor to Evans Auto Loading Co. Inc., Detroit, Mich. Headlock strap. 1,705,378; Mar. 12.
- Rumely, Vincent P., assignor to Hudson Motor Car Company, Detroit, Mich. Vehicle anchoring device. 1,727,446; Sept. 10.
- Rumford Chemical Works. (See Edwards, Robert S., assignor.)
- Rumidor Corporation, The. (See Bender, Joseph C., assignor.)
- Rumidor Corporation, The. (See Zucker, Richard D., assignor.)
- Rumley, Miles W., Albuquerque, N. Mex. Child's vehicle. 1,705,540; Mar. 19.
- Rummel, William B. D., Chicago, Ill. Sanitary fly and insect trap. 1,703,322; Feb. 26.
- Rummler, Francis J., Lyndhurst, N. J. Internal-combustion engine. 1,717,811; June 18.
- Rumney, Mason P., assignor to Detroit Steel Products Company, Detroit, Mich. Window construction. 1,702,393; Feb. 19.
- Rumpel, Harvey H., assignor to Smith Engineering Works, Milwaukee, Wis. Crusher. 1,717,894; June 18.
- Rumpf, John, New Milford, N. J., assignor to The Safety Car Heating & Lighting Company. Lighting fixture. 1,738,671; Dec. 10.
- Rumsey, Edward C., Detroit, Mich., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Signal. 1,730,335; Oct. 1.
- Rumsey, Joseph F., Oklahoma City, Okla. Producing cattle feed. 1,723,210; Aug. 6.
- Rumsey, Robert G., Kinsley, Kans. Screened folding crib. 1,742,011; Dec. 31.
- Runback, Hilma, administratrix. (See Jordahl, A., and Runback.)
- Runback, Karl G. (See Jordahl, A., and Rundack.)
- Rundblad, George J. (See Youngberg, C. D., and Rundblad.)
- Rundie-Spence Mfg. Co. (See Spence, William S., assignor.)
- Rundqvist, Thore R. E., Claremont, N. H., assignor to Sullivan Machinery Company. Fluid-pressure motor. 1,740,713; Dec. 24.
- Rundqvist, Thore R. E., Claremont, N. H., assignor to Sullivan Machinery Company. Fluid-pressure motor. 1,740,714; Dec. 24.
- Runeberg, Nels. (See Gardner, P. F., Runeberg, and Cox.)
- Roney, George L., assignor to W. J. Fallon Leather Co., Boston, Mass. Beaded welting. 1,723,977; Aug. 6.
- Runge Corn Harvester Company. (See Jett, George C., assignor.)
- Runge, John W., Passaic, N. J. Window ventilator. 1,709,491; Apr. 16.
- Runge, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Balanced bridge for autodyne receiver circuits. 1,717,627; June 18.
- Runge, Wilhelm, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. High-frequency amplifier arrangement. 1,724,146; Aug. 13.
- Runkel, Roland, Mainz-Mombach, assignor to Verein für Chemische Industrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of cellulose from highly-lignified plants. 1,731,112; Oct. 8.
- Runkles, Elsie M., and C. Isisa, Detroit, Mich. Bank-protecting means. 1,703,751; Feb. 26.
- Runne, Ernst. (See Hoffa, E., Runne, and Thoma.)
- Runne, Fred T. (See Runne, Henry G. and F. T.)
- Runne, Henry G. and F. T., Rochester, N. Y. Direction indicator for motor vehicles. Des. 78,942; July 9.
- Runnels, Paul P., Indianapolis, assignor of one-half to G. A. Schaal, Terre Haute, Ind. Water heater and softener. 1,737,202; Nov. 26.
- Runser, Frederick J., assignor to The Byrne Manufacturing Company, Cleveland, Ohio. Pressed-in bung ring. 1,709,324; Apr. 16.
- Runser, Frederick J., assignor to The Byrne Manufacturing Company, Cleveland, Ohio. Bung and faucet. 1,709,325; Apr. 16.
- Runsold, Martin S., San Diego, Calif. Automatic heat-regulating means. 1,708,155; Apr. 9.
- Runyan, Arthur L., Omaha, Nebr. Toy chariot. 1,732,030; Oct. 15.
- Runyan, Bernard H., Fort Myers, Fla. Instrument-board attachment. 1,710,430; Apr. 23.
- Runyan, William B., assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Jack. 1,734,831; Nov. 5.
- Runyan, William B., assignor to The Dayton Malleable Iron Company, Dayton, Ohio. Jack. 1,741,793; Dec. 31.
- Ruoff, George J. (See Griffin, Stephen D. and P. M., assignors.)
- Rupard, Edmond B., Atlanta, Ga., assignor to Armour Fertilizer Works, Chicago, Ill. Niter oven. 1,709,880; Apr. 23.
- Rupe, William G. (See Scott, A. C., and Rupe.)
- Rupf, Frank E., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Catalog cover. 1,710,491; Apr. 23.
- Rüping, Max, Munich, Germany. Roadbed for railways. 1,702,841; Feb. 19.
- Rupley, William E., Los Angeles, assignor to Western Pipe & Steel Company of California, San Francisco, Calif. Stovepipe casing. 1,731,592; Oct. 15.
- Rupley, William E., Los Angeles, assignor to Western Pipe and Steel Company of California, San Francisco, Calif. Electric pipe-welding apparatus. 1,741,076; Dec. 24.
- Rupp, Guy A. (See Snelling, W. O., and Rupp.)
- Rupp, Guy A., Allentown, Pa., assignor to Trojan Powder Company. Explosive. 1,728,307; Sept. 17.
- Rupp, Guy A., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Ordnance material. 1,729,550; Sept. 24.
- Rupp, Karl F. (See Wissmar, Joseph, assignor.)
- Rupp, Virgil R., New York, N. Y. Mineral feed and making same. 1,712,404; May 7.
- Ruppe Motor G. m. b. H. (See Ruppe, Paul H., assignor.)
- Ruppe, Paul H., Berlin, assignor to the firm, Ruppe Motor G. m. b. H., Berlin, Germany. Magneto generator. 1,697,370; Jan. 1.
- Ruppel, Frederick C., Grand Rapids, assignor to Checker Cab Manufacturing Corporation, Kalamazoo, Mich. Radiator ornament. Des. 78,126; Mar. 26.
- Ruprecht, Louis, Montclair, N. J., and A. G. Kollstede, New York, N. Y. Grinding machine. 1,711,464; Apr. 30.
- Rusack, Herman, Providence, R. I. Nut lock. 1,741,077; Dec. 24.
- Rusak, Alexander J., Brooklyn, N. Y. Hair-waving device. 1,727,218; Sept. 3.
- Rusak, Alexander J., assignor to The Marvel Device Corporation, Brooklyn, N. Y. Hair-waving device. 1,723,889; Aug. 6.
- Rüsberg, Friedrich, Berlin-Niederschöneweide, and Paul Schmid, Berlin-Baumschulenberg, assignors to the firm Kali-Chemie Aktiengesellschaft, Berlin, Germany. Recovering zirconic oxide. 1,732,662; Oct. 22.
- Rusby, Hermann. (See Fletcher, G. H., and Rusby.)
- Rusby, Hermann, Stockbridge, near Sheffield, England, assignor to Westinghouse Electric & Manufacturing Company. Shaft coupling. 1,729,899; Oct. 1.
- Rusby, John M., assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Gasification of bituminous coal. 1,725,739; Aug. 20.
- Rusby, John M., Philadelphia, Pa., and C. W. Andrews, Duluth, Minn., assignors to The U. G. I. Contracting Company, Philadelphia, Pa. Gasification of solid fuel. 1,720,403; July 9.
- Rusch, Edward C. (See Furnas, W. C., and Rusch.)
- Rusch, Joseph J. (See Patraszewski, John, assignor.)
- Ruschke, Frank, Syracuse, N. Y. Power hand and bench saw. 1,707,097; Mar. 26.
- Ruschmeyer, Henry C. (See Jones, A. L., and Ruschmeyer.)
- Rusco, Easborn. (See Coultas, W. J., and Rusco.)
- Rush, Albert. (See McCloud, E. H., and Rush.)
- Rush, Albert, assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Door for hangars and other structures. 1,736,133; Nov. 19.
- Rush, Avery B., and P. Armilly, Newcastle, Calif. Mechanism for eliminating brush from orchards. 1,702,173; Feb. 12.



- Rush, Earl S., Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Fluid-controlling mechanism. 1,699,676; Jan. 22.
- Rush, Earl S., Erie, Pa., assignor to Doherty Research Company, New York, N. Y. Pilot-controlled demand meter. 1,725,374; Aug. 20.
- Rush, John, Norwich, Conn., assignor to The Schwarzenbach-Huber Company, Union City, N. J. Tension device for shuttles. 1,729,551; Sept. 24.
- Rush, John W., Wilkesburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,707,280; Apr. 2.
- Rush, Leo E., Indianapolis, Ind. Pump. 1,701,309; Feb. 5.
- Rushforth, Saville, St. Annes-on-Sea, England. Variable-speed gear. 1,727,447; Sept. 10.
- Rushton, Arthur L., and M. M. Simpson, Omaha, Nebr., and H. C. Beckman, Cedar Lake, Ind., assignors to Cream Processes, Inc., Omaha, Nebr. Treating sour cream. 1,731,868; Oct. 15.
- Rushton, Arthur L., and M. M. Simpson, Omaha, Nebr., and H. C. Beckman, Cedar Lake, Ind., assignors to Cream Processes, Inc., Omaha, Nebr. Treating soured or curdled milks for the recovery of butterfat therefrom. 1,731,869; Oct. 15.
- Rushton, Elmer T., assignor to Hercules Products Company, St. Joseph, Mich. Rim tool. 1,704,628; Mar. 5.
- Rushton, James L., Bolton, England. Clutch for conveying rotary motion. 1,703,694; Feb. 26.
- Rushton, James L., Bolton, England. Operating mechanism for clutches or the like. 1,709,742; Apr. 16.
- Rushton, Philip, Paterson, N. J., assignor to American Car and Foundry Company, New York, N. Y. Stanchion bracket. 1,706,076; Mar. 19.
- Rushton, Thomas H., Workop, England. Solid-rubber band tire for vehicle wheels. 1,731,870; Oct. 15.
- Rusk, Elmer L. (See Williams, S. G., and Rusk.)
- Ruskin, Simon L., trustee. (See Silberman, David, assignor.)
- Russ, John B. (See Smith, Clarence E., assignor.)
- Russ, John B., Shelton, Conn. Webbing buckle. 1,704,262; Mar. 5.
- Russ, John B., Shelton, assignor to The Bassett Metal Goods Company, Inc., Derby, Conn. Wardrobe-trunk lock or similar article. Des. 80,189; Dec. 24.
- Russ, John B., assignor to The Bassett Metal Goods Company, Inc., Shelton, Conn. Webbing buckle. 1,704,261; Mar. 5.
- Russ, John B., Shelton, and C. E. Smith, Naugatuck, assignors to The Bassett Metal Goods Company, Inc., Derby, Conn. Lift catch. 1,710,650; Apr. 23.
- Russell, Philip S. (See Kingsland, G. D., and Russell.)
- Russell, Roy R., Oklahoma City, Okla. Shaving brush. 1,716,739; June 11.
- Russell, Alexander G. (See Knox, W. G., and Russell.)
- Russell, Arthur, Baltimore, Md. Radiocabinet. Des. 78,407; Apr. 30.
- Russell, Bert. (See Shields, George D., assignor.)
- Russell Burdsall & Ward Bolt & Nut Company. (See Gibney, Joseph W., assignor.)
- Russell, Burdsall & Ward Bolt & Nut Company. (See Ruth, Frank M., assignor.)
- Russell, Charles L. (See Warner, Albion L., assignor.)
- Russell, Charles L., assignor to American Bakers Machinery Company, St. Louis, Mo. Dough divider. 1,704,903; Mar. 12.
- Russell, Claude S. J., assignor to Faichney Instrument Corporation, Watertown, N. Y. Thermometer case. 1,739,693; Dec. 17.
- Russell, Corey L., Chicago, Ill. Shower fixture. 1,724,147; Aug. 13.
- Russell, Daniel, New York, N. Y. Combination cigarette container and lighter. 1,729,967; Oct. 1.
- Russell, Edward A. (See Gold, E. H., and Russell.)
- Russell, Edward A. (See Gold, E. H., Manchester, and Russell.)
- Russell, Eli A., Chicago, Ill. Coin bank. 1,708,238; Apr. 9.
- Russell, Frank H. (See Page, G. A., Jr., and Russell.)
- Russell, Frederick, White Plains, N. Y. Horse. 1,711,328; Apr. 30.
- Russell, Frederick T., assignor to Savage Arms Corporation, Utica, N. Y. Washing machine. 1,714,107; May 21.
- Russell, George W., Berryville, Ark. Grapple. 1,721,234; July 16.
- Russell, George W., assignor, by mesne assignments, to The Aetna-Standard Engineering Company, Warren, Ohio. Straightening machine. 1,697,090; Jan. 1.
- Russell-Grader Manufacturing Company. (See Gustafson, Carl A., assignor.)
- Russell, Henry M., Wheeling, W. Va. Producing changing pictures. 1,724,372; Aug. 13.
- Russell, Herbert O., Detroit, Mich., and C. L. Paulus, Dayton, Ohio. Mount for flexible synchronized guns. 1,710,114; Apr. 23.
- Russell, Herbert O., Detroit, Mich., and C. L. Paulus, Dayton, Ohio. Automatic bomb sight. 1,710,115; Apr. 23.
- Russell, Herbert O., Detroit, Mich., and C. L. Paulus, Dayton, Ohio. Automatic bomb sight. 1,710,115; Apr. 23.
- Russell, James M., San Diego, Calif., assignor, by mesne assignments, to Russell Parachute Company, Wilmington, Del. Parachute pack. 1,712,309; May 7.
- Russell, John J. (See Morlang, H. J., and Russell.)
- Russell, John M., Manufacturing Company, The. (See Russell, Theodore, assignor.)
- Russell, John R., Sterling, Ill. Quilting frame. 1,698,108; Jan. 8.
- Russell, Joseph C. (See Russell, Robert C. and J. C.)
- Russell, Joseph F. (See Schuyler, F. B., and Russell.)
- Russell, Lena A., Cleveland, Ohio. Presser-foot-lifter attachment for sewing machines. 1,705,783; Mar. 19.
- Russell, Leslie A., assignor to Koehring Company, Milwaukee, Wis. Interchangeable shovel crane. 1,700,181; Jan. 29.
- Russell, Leslie A., assignor to Koehring Company, Milwaukee, Wis. Crane. 1,710,322; Apr. 23.
- Russell, Linus E., and G. E. Peters, Springfield, Ohio. Automobile control. 1,733,978; Oct. 29.
- Russell, Linus E., assignor of one-half to G. E. Peters, Springfield, Ohio. Automobile control. 1,733,979; Oct. 29.
- Russell, Louis J., Richmond Hill, N. Y. Paper box. 1,698,072; Jan. 8.
- Russell, Louis R. (See Clutter, C. E., and Russell.)
- Russell Manufacturing Company, The. (See Hendley, James A., assignor.)
- Russell Manufacturing Company, The. (See Losey, Arthur S., assignor.)
- Russell Manufacturing Co. (See Russell, Roslyn V. H., assignor.)
- Russell Manufacturing Company, The. (See Sheldon, Amy, assignor.)
- Russell Manufacturing Company, The. (See Zimmerer, Frederick J., Jr., assignor.)
- Russell, Mark N., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Attachment-plug receptacle. Des. 78,943; July 9.
- Russell, Olin F., Los Angeles, Calif. Valve. 1,727,301; Sept. 3.
- Russell Parachute Company. (See McClintock, Herbert R., assignor.)
- Russell Parachute Company. (See Russell, James M., assignor.)
- Russell, Ralph R., et al. (See White, John S., assignor.)
- Russell, Robert C. and J. C., Pittsburgh, Pa. Index. 1,741,586; Dec. 31.
- Russell, Roslyn V. H., assignor to Russell Manufacturing Co., Niagara Falls, N. Y. Contact finger for electrical controllers and switches. 1,699,858; Jan. 22.
- Russell & Stoll Company. (See Glasgow, Ernest M., assignor.)
- Russell, Theodore, assignor to The John M. Russell Manufacturing Company, Incorporated, Naugatuck, Conn. Fastener link for sprocket chains. 1,697,540; Jan. 1.
- Russell, Titus, assignor to Holland Furnace Company, Holland, Mich. Apparatus for furnace cleaning. 1,731,593; Oct. 15.
- Russell, W. Frank. (See Horton, Wilford H., assignor.)
- Russell, Zachary E., assignor to C. W. Warren, Sauk Rapids, Minn. Stapling machine. 1,704,517; Mar. 5.
- Russey, Merrell W., Los Angeles, Calif., assignor to United States Smelting, Refining & Mining Company, Portland, Me. Mine-hoist signal system and switch. 1,739,613; Dec. 17.
- Russia Cement Company. (See Phillips, Nathan C., assignor.)
- Rust, Albert A., Cincinnati, Ohio. Ice conveyance. 1,728,081; Sept. 10.
- Rust Engineering Company, The. (See Dignan, George E., assignor.)
- Rust, James E., Park Ridge, assignor to G. A. E. Koehler, Chicago, Ill. Reel. 1,716,089; June 4.
- Ruth-Aldo Company. (See Klein, Melitta, assignor.)
- Ruth, Charles H., Walnut Park, assignor to Ruth Dredger Manufacturing Company, Huntington Park, Calif. Excavator drive. 1,715,627; June 4.
- Ruth, Charles H., Walnut Park, assignor to Ruth Dredger Manufacturing Company, Huntington Park, Calif. Excavator. 1,733,427; Oct. 29.
- Ruth, Claude R., Cleveland, Ohio. Automobile oil indicator. 1,699,924; Jan. 22.
- Ruth Dredger Manufacturing Company. (See Ruth, Charles H., assignor.)
- Ruth, Frank M., Sterling, Ill., assignor to Russell, Burdsall & Ward Bolt & Nut Company, Port Chester, N. Y. Swaging machine. 1,721,283; July 16.
- Rutherford, John, Long Beach, Calif. Fishing tool. 1,720,058; July 9.
- Rutherford, John, Long Beach, Calif. Fishing basket. 1,720,059; July 9.
- Rutherford, John, Slingerlands, assignor to The Embossing Company, Albany, N. Y. Toy building block. 1,736,134; Nov. 19.
- Rutherford, Richard A., Co. (See Zwicke, William A., assignor.)
- Rutherford, William R., Spokane, Wash. Pole base. 1,723,376; Aug. 6.
- Ruths Accumulator Aktiebolag. (See Bäckström, M., and Föhl, assignors.)
- Ruths Accumulator Aktiebolag. (See Ruths, Johannes, assignor.)
- Ruths Accumulator Aktiebolag. (See Ruths, J., and Frenne, assignors.)
- Ruths Accumulator Company. (See Wettstein, Fritz, assignor.)
- Ruths Accumulator Company. (See Wettstein, F., and Schullström, assignors.)



- Ruths, Johannes, Djursholm, Sweden. Steam plant. 1,700,649; Jan. 29.
- Ruths, Johannes, Djursholm, Sweden. Steam plant. 1,723,302; Aug. 6.
- Ruths, Johannes, Djursholm, assignor to Ruths Accumulator Aktiebolag, Stockholm, Sweden. Method of and apparatus for bleaching paper pulp. 1,700,647; Jan. 29.
- Ruths, Johannes, Djursholm, assignor to Ruths Accumulator Aktiebolag, Stockholm, Sweden. Steam plant. 1,700,651; Jan. 29.
- Ruths, Johannes, Djursholm, and H. Frenne, assignors to Ruths Accumulator Aktiebolag, Stockholm, Sweden. Stationary-steam-plant reserve. 1,700,648; Jan. 29.
- Ruthsaccumulator Aktiebolag. (See Gleichmann, H., and Stender, assignors.)
- Ruthven, Albert F., Cleveland, Ohio. Current motor. 1,729,362; Sept. 24.
- Ruthven, Albert F., Cleveland, Ohio. Reciprocating pump. 1,730,297; Oct. 1.
- Ruthven, Alfred L., Rochester, N. Y. Continuous train control. 1,715,250; May 28.
- Ruthven, Alfred L., assignor to Union Simplex Train Control Co., Inc., Rochester, N. Y. Simplex continuous-induction intermittent train control. 1,701,544; Feb. 12.
- Ruthven, Alfred L., assignor to Union Simplex Train Control Co., Inc., Rochester, N. Y. Simplex continuous-induction intermittent train control. 1,701,592; Feb. 12.
- Rutkowski, Walter L., assignor to R. C. Can Company, St. Louis, Mo. Whistle. 1,735,697; Nov. 12.
- Rutstein, Leo, Newark, N. J., assignor to Celanese Corporation of America. Duplicate sound record and making the same. 1,727,039; Sept. 3.
- Rutstein, Leo, Newark, N. J., assignor to Celanese Corporation of America. Duplicate sound record and making the same. 1,727,040; Sept. 3.
- Rutt, John F., Chicago, Ill. Watchman's clock. 1,699,161; Jan. 15.
- Ruttan, Charles E., Los Angeles, Calif. Half door for automobile inclosures. 1,711,857; May 7.
- Ruttenberg, Samuel, et al. (See Nakken, Theodorus H., assignor.)
- Ruttenberg, Samuel, et al. (See Ruttenberg, S., and Mierendorff, assignors.)
- Ruttenberg, Samuel, Brooklyn, and W. C. Mierendorff, assignors to S. Ruttenberg and M. N. Leibowitz, New York, N. Y. Electrical contact clip. 1,724,729; Aug. 13.
- Rutter, Albert M., assignor to Hollow Ball Company, Incorporated, Baltimore, Md. Machine for making hollow metal balls. 1,712,446; May 7.
- Rutter, Alva E., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Cable guide for haystackers. 1,699,478; Jan. 15.
- Rutter, Argyle R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Meter attachment. 1,725,161; Aug. 20.
- Rutter, Argyle R., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current motor meter. 1,729,402; Sept. 24.
- Rutter, Argyle R., and W. G. Mylius, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. 1,702,416; Feb. 19.
- Rüttiman, Peter, sr., Siebnen, and F. Holzscheiter, Zurich, Switzerland, assignors to Maschinenfabrik Kiessling A.-G., Leipzig, Germany. Machine for scoring wooden boards. 1,738,966; Dec. 10.
- Rutty, Florence A., New York, N. Y. Seating chart. 1,739,988; Dec. 17.
- Ruud, Otto S., Oslo, Norway. Vacuum tank for liquid fuels. 1,717,853; June 18.
- Ruze, John, New York, N. Y. Tray. 1,713,147; May 14.
- Ruze, John, New York, N. Y. Stamp moistener. 1,713,627; May 21.
- Ruze, John, New York, N. Y. Paper-roll holder. 1,722,766; July 30.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,842; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,843; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,844; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,845; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,846; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,847; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,848; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,849; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,850; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,851; Feb. 19.
- Ruzicka, Leopold, assignor to M. Naef & Co., Geneva, Switzerland. Preparation of monocyclic ketones and their alkyl derivatives having more than nine ring members. 1,702,852; Feb. 19.
- Ruzicka, Leopold, Utrecht, Netherlands, assignor to the Firm M. Naef & Co., Geneva, Switzerland. Increasing the yield in civetone, starting from civet. 1,720,748; July 16.
- Ryalls, John H., Richmond, Va., assignor to H. S. Hedges, Charlottesville, Va. Reversible transmission for spinning mules. 1,736,627; Nov. 19.
- Ryan, Albert J., Cincinnati, Ohio. Box-toe piece. 1,734,531; Nov. 5.
- Ryan, Arthur H., Birmingham, Ala. Garment-bagging device. 1,733,425; Oct. 29.
- Ryan, Bertha, et al. (See Kay, Oscar, assignor.)
- Ryan, Daniel A., Lakewood, Ohio. Speed-responsive signal. 1,722,314; July 30.
- Ryan, Daniel B. (See Antrainer, A. H., and Ryan.)
- Ryan, Daniel J., assignor to The Cleveland Trust Company, Cleveland, Ohio. Making reinforced cores of molds. 1,717,325; June 11.
- Ryan, Edward F., Binghamton, and E. T. Adams, Johnson City, N. Y., assignors to The Fairbanks Company, New York, N. Y. Valve. 1,738,450; Dec. 3.
- Ryan, Edward S., Sheboygan, Wis. Nasal medicated sponge. 1,732,697; Oct. 22.
- Ryan, Edward W., Newark, N. J., assignor to Westinghouse Lamp Company. Mounting misch metal in radiotrons. 1,720,005; July 9.
- Ryan, F. J., and Company. (See Beach, George F., assignor.)
- Ryan, Francis T., Oak Park, Ill. Electric-fixture outlet. 1,701,935; Feb. 12.
- Ryan, George F., Lynn, Mass., assignor to Charles E. Reed & Company, Chicago, Ill. Copying lathe. 1,727,906; Sept. 10.
- Ryan, George F., and E. H. Burke, Lynn, Mass., assignors to Fitz-Empire Double Pivot Lathe Company, Auburn, Me. Pattern-copying machine. 1,733,207; Oct. 29.
- Ryan, Harrison C., Shaker Heights, Ohio. Inking carriage. 1,741,883; Dec. 31.
- Ryan, James B., Harvestown, N. Y. Vending machine. 1,726,924; Sept. 3.
- Ryan, James F., guardian. (See Trevor, Charles.)
- Ryan, John E., and H. Shores, San Diego, Calif. Barrel spigot. 1,734,232; Nov. 5.
- Ryan, John J., Jr., Chicago, Ill. Steam valve. 1,739,261; Dec. 10.
- Ryan, John M., Chicago, Ill. Packing. 1,727,732; Sept. 10.
- Ryan, John S., Otahuhu, New Zealand. Cool chest or chamber. 1,723,810; Aug. 6.
- Ryan, Leo C., Chicago, Ill., assignor to Oxweld Railroad Service Company. Composite railway-track member. 1,700,810; Feb. 5.
- Ryan, Lonnie W., Niagara Falls, assignor to Titanium Pigment Company, Inc., New York, N. Y. Alkali-metal titanate and making same. 1,697,929; Jan. 8.
- Ryan Manufacturing Corporation. (See Hinds, Daniel C., assignor.)
- Ryan, Patrick, Hebron, Ind. Paddle device. 1,708,331; Apr. 9.
- Ryan, Theodore J., assignor of seven-eighths to O. T. Ross, Los Angeles, Calif. Child's vehicle. Des. 77,562; Jan. 22.
- Ryan, Theodore J., assignor of seven-eighths to O. T. Ross, Los Angeles, Calif. Child's vehicle. 1,705,209; Mar. 12.
- Ryan, Thomas D., Buffalo, N. Y., assignor of one-half to J. H. W. Kuhlmann, Blue Lake, Calif. Antislipping attachment. 1,709,686; Apr. 16.
- Ryan, Thomas F. (See Pearl, Leonard S., assignor.)
- Ryan, Walter D'A., Schenectady, N. Y. Headlight. 1,732,914; Oct. 22.
- Ryan, Walter S., Westfield, N. J., assignor to The Barrett Company. Machine for applying straps to bundles. 1,732,619; Oct. 22.
- Rybeck, Adolph W., assignor to T. L. Smith Company, Milwaukee, Wis. Concrete mixer. 1,727,359; Sept. 10.
- Rybeck, Adolph W., assignor to The T. L. Smith Company, Milwaukee, Wis. Snubber for concrete-mixer skips. 1,740,786; Dec. 24.
- Ryberg, Charles O., Brockton, Mass. Heel base for shoes. 1,701,509; Feb. 12.
- Ryberg, Charles O., Brockton, Mass. Lifting and snubbing attachment for vehicles. 1,719,237; July 2.
- Ryberg, Charles O., Brockton, Mass. Heel-base-building machine. 1,737,129; Nov. 26.
- Ryberg, Thorsten A. T., Stockholm, Sweden. Motion-transmitting device for automobiles or the like. 1,700,078; Jan. 22.



- Ryder, Charles D., Covington, Ky., assignor to The Cincinnati Victor Company, Cincinnati, Ohio. Fan stand or similar article. Des. 79,853; Nov. 5.
- Ryder, Charles D., Covington, Ky., assignor, by mesne assignments, to The Thos. J. Corcoran Lamp Co., Cincinnati, Ohio. Motor-vehicle signal. 1,706,986; Mar. 26.
- Ryder, Charles D., Covington, Ky., assignor to The Cincinnati Victor Company, Cincinnati, Ohio. Fan attachment. 1,723,953; Aug. 6.
- Ryder, Earl R., assignor to C. K. Bassett, Buffalo, N. Y. Liquid meter. 1,731,323; Oct. 15.
- Ryder, Earle A., West Hartford, assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Pinion-thrust equalizer for reduction gears. 1,701,246; Feb. 5.
- Ryder, Earle A., West Hartford, assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Pinion-thrust equalizer for reduction gears. 1,707,685; Apr. 2.
- Ryder, Earle A., assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Internal-combustion engine. 1,718,490; June 25.
- Ryder, Edmund, Ottawa, Ontario, Canada. Pincushion. 1,725,999; Aug. 27.
- Ryder, Elmer, Berwyn, Ill. Liquid-level indicator. 1,713,781; May 21.
- Ryder, Frank P., Niagara Falls, N. Y. String-bean harvester. 1,723,492; Aug. 6.
- Ryder, Frank P., Niagara Falls, N. Y. Beater cylinder for green-pea vipers. 1,725,938; Aug. 27.
- Ryder, Harry M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube filament. 1,700,855; Feb. 5.
- Ryder, James C., Passaic, N. J., assignor to Petroleum Derivatives, Inc., New York, N. Y. Distillation process. 1,727,380; Sept. 10.
- Ryder, Leo L., Beaumont, Tex. Display rack. 1,724,806; Aug. 13.
- Ryder, Robert W., assignor to Santa Cruz Portland Cement Company, San Francisco, Calif. Cement kiln and feeder control. 1,706,592; Mar. 26.
- Ryder, Robert W., assignor to Santa Cruz Portland Cement Company, San Francisco, Calif. Clinker cooler. 1,737,061; Nov. 26.
- Ryding, Herbert C., Birmingham, Ala. Soaking pit. 1,719,452; July 2.
- Ryding, Herbert C., Birmingham, Ala. Soaking pit. 1,719,453; July 2.
- Ryerson, Charles S., deceased; B. V. Imbrie, executor, assignor to Ryerson, Incorporated, Pittsburgh, Pa. Dental impression tray. 1,725,830; Aug. 27.
- Ryerson, Incorporated. (See Ryerson, Charles S., assignor.)
- Rygl, Frank, New York, N. Y. Hotel-room service table. 1,729,491; Sept. 24.
- Ryley, Charles F. (See Ewing, H., and Ryley.)
- Ryley, Charles F., Spondon, near Derby, England, assignor to Celanese Corporation of America. Apparatus for treatment of fabrics. 1,727,041; Sept. 3.
- Ryley, Charles F., C. W. Palmer, and S. A. Welch, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture or treatment of threads of artificial filaments. 1,725,829; Aug. 27.
- Ryley, Elsie M., administratrix. (See Ewing, H., and Ryley.)
- Rymer, John A., Berkeley, assignor to Pratt-Rymer Company, San Leandro, Calif. Lock. 1,708,593; Apr. 9.
- Rymer, John A., Berkeley, assignor to Pratt-Rymer Company, San Leandro, Calif. Door lock. 1,734,149; Nov. 5.
- Ryneerson, Winfield S., Edmonds, Wash. Collapsible camp bed. 1,737,947; Dec. 3.
- Ryniker, Walter E., Billings, Mont. Furnace. 1,730,298; Oct. 1.
- Ryon, Eppa H., Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom for weaving terry fabric. 1,737,688; Dec. 3.
- Rypp, George H., London, England. Stamping machine. 1,705,541; Mar. 19.
- Rypinski, Albert B. (See Murray, T. E., jr., and Rypinski.)
- Rypinski, Albert B., Laurelton, assignor to T. E. Murray, Brooklyn, N. Y. Service-switch mechanism. 1,726,277; Aug. 27.
- Ryser, Walter, Paris, France. Toothbrush. 1,705,542; Mar. 19.
- S. C. S. Box Company. (See Scotcher, Charles A., assignor.)
- S. E. Company, The. (See Wallace, George W., assignor.)
- S. K. S. Mfg. Co. (See Snell, James C., assignor.)
- S-P Manufacturing Company. (See Olson, John A., assignor.)
- S. and R. Folding Machine Company. (See Roby, Edward B., assignor.)
- S. & S. Manufacturing Company, The. (See Skeen, Samuel T., assignor.)
- S. & T. Metal Company. (See Ripley, C. T., and Armstrong, assignors.)
- S. & T. Metal Company. (See Shoemaker, Robert J., assignor.)
- S. & U. Holding Company. (See Sibley, James T., assignor.)
- Saalbach, Arthur A., East Orange, N. J., assignor to American Can Company, New York, N. Y. Dredge-top can. 1,734,304; Nov. 5.
- Saarinen, Eliel, Birmingham, Mich., assignor to Reed & Barton, Taunton, Mass. Spoon or similar article. Des. 79,854; Nov. 5.
- Saart Brothers Company. (See Metcalf, Alpha H., assignor.)
- Saatman, Walter A., Roslyn, Pa. Turret-box machine. 1,737,615; Dec. 3.
- Saatman, Walter A., Roslyn, Pa. Picker holder. 1,737,616; Dec. 3.
- Sabalitschka, Theodor, Berlin-Steglitz, and H. Jacobson, Berlin-Dahlem, Germany. Disinfecting. 1,715,251; May 28.
- Sabatini, Washington, Oneglia, Italy. Device for working out calculations in connection with structures of reinforced concrete. 1,739,523; Dec. 17.
- Sabbah, Camil A. (See Brown, H. D., and Sabbah.)
- Sabbah, Camille A., Schenectady, N. Y., assignor to General Electric Company. Transmission of pictures and views. 1,706,185; Mar. 19.
- Sabey, Harold M., Rochester, and F. J. Aldridge, Honeoye Falls, assignors to The Duban Shade Corporation, Rochester, N. Y. Machine for applying paint to canvas and the like. 1,718,439; June 25.
- Sabin, Ernest E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on parts of boots and shoes. 1,722,315; July 30.
- Sabin, Ernest E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for softening shoe stiffeners. 1,740,478; Dec. 24.
- Sabin, Raymond E., Flushing, N. Y. Evaporator for refrigeration machines. 1,727,018; Sept. 3.
- Saborsky, Arthur D., Lakewood, Ohio, assignor to Chisholm-Moore Hoist Corporation, Buffalo, N. Y. Trolley track switch. 1,701,310; Feb. 5.
- Saborsky, Arthur D., Lakewood, Ohio, assignor, by mesne assignments, to Chisholm-Moore Hoist Corporation, Buffalo, N. Y. Hoist. 1,720,240; July 9.
- Saccoccia, Nicolas, Cranston, assignor to Fulford Mfg. Co., Providence, R. I. Metal necklace or similar article. Des. 78,900; July 2.
- Sacerdote, Guido M., Bayside, N. Y. Manifold attachment for typewriters. 1,704,020; Mar. 5.
- Sacerdote, Guido M., Bayside, Long Island, N. Y. Loading attachment for trucks. 1,704,841; Mar. 12.
- Sacerdote, Guido M., New York, N. Y. Signal-indicating system and apparatus. 1,705,030; Mar. 12.
- Sacerdote, Guido M., New York, N. Y. Manifolding typewriter. 1,707,494; Apr. 2.
- Sacerdote, Guido M., Bayside, New York, N. Y. Filing and indexing device. 1,732,541; Oct. 22.
- Sacerdote, Guido M., New York, N. Y. Radiator attachment. 1,734,532; Nov. 5.
- Sacharoff, Michael V., Boston, Mass. Collar fastener. 1,724,779; Aug. 13.
- Sachtow, Harry M. (See Falk, J. F., and Sachtow.)
- Sachs, Ernst, Schloss Mainberg, near Schweinfurt, Bavaria, Germany. Coaster brake for vehicles. 1,731,728; Oct. 15.
- Sachs, George L., Newark, N. J. Pie-crimping machine. 1,707,816; Apr. 2.
- Sachs, Gottfried, Oberhochstadt, Germany. Toy representing an egg-laying hare. 1,702,134; Feb. 12.
- Sachs, Harry. (See Fanton, Harry B., assignor.)
- Sachs, John H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of chloro derivatives of N-dihydro-1,2,2',1'-anthraquinone-azine. 1,739,736; Dec. 17.
- Sachs, Joseph, West Hartford, Conn. Inclosed fused switch. 1,721,493; July 16.
- Sachs, Joseph, West Hartford, Conn. Inclosed fused switch. 1,721,494; July 16.
- Sachs, Joseph, West Hartford, Conn. Inclosed fused switch. 1,721,495; July 16.
- Sachs, Joseph, West Hartford, Conn. Inclosed fused switch. 1,721,496; July 16.
- Sachs, Joseph, West Hartford, Conn. Inclosed fused switch. 1,721,497; July 16.
- Sachs, Joseph, West Hartford, Conn. Electrical switching means. 1,736,369; Nov. 19.
- Sachs, Joseph, Hartford, Conn. Inclosed electric switch. 1,736,370; Nov. 19.
- Sachs, Joseph, West Hartford, Conn. Automatic circuit breaker. 1,736,371; Nov. 19.
- Sachs, Joseph, West Hartford, Conn. Automatic circuit breaker. 1,736,372; Nov. 19.
- Sachs, Joseph, Hartford, Conn. Wire-connecting lug with test contact. 1,739,262; Dec. 10.
- Sachse, Herman P. (See Bandoly, E., and Sachse.)
- Sachse, Richard. (See Schilling, A., Sachse, Liamin, and Callaert.)
- Sachsenmaier, Ervin S., Philadelphia, assignor to Dunning Compressor Co., Philadelphia, Pa. Spray gun. 1,737,895; Dec. 3.
- Sachsenwerk Licht- und Kraft-Aktiengesellschaft. (See Hartwagner, Ludwig, assignor.)
- Sachsenwerk, Licht- und Kraft-Aktiengesellschaft. (See Kergel, Hermann, assignor.)
- Sachsenwerk, Licht- und Kraft-Aktiengesellschaft. (See Sarfert, Willy, assignor.)
- Sächsische Maschinenfabrik vorm. Rich. Hartmann, Aktien-gesellschaft. (See Koch, Ernst, assignor.)
- Sack, firm: Rudolf. (See Ehrlicke, Max, assignor.)
- Sacks, David, Brooklyn, and M. Goldberg, New York, N. Y. Trousers. 1,735,657; Nov. 12.
- Sacks, Irving, New York, N. Y. Fountain attachment for paintbrushes. 1,716,980; June 11.



- Sacks, Irving, New York, N. Y. Pressure fountain for paint. 1,716,981; June 11.
- Sacks, Stanley R., Pottsville, Pa. Eyecup. 1,724,621; Aug. 13.
- Saco-Lowell Shops. (See Banfield, F. E., jr., and Hoagland, assignors.)
- Saco-Lowell Shops. (See Borovoy, S., and Perry, assignors.)
- Saco-Lowell Shops. (See Greenwood, O. P., assignor, and Bettinger.)
- Saco-Lowell Shops. (See Hoagland, Frank O., assignor.)
- Saco-Lowell Shops. (See Penney, L. W., and Child, assignors.)
- Saco-Lowell Shops. (See Woodward, John W., assignor.)
- Sadler, Joseph P., jr., Richmond, Va. Upholstery cover. 1,737,476; Nov. 26.
- Sadler, Luther, assignor of one-third to E. L. Fairbanks and one-third to L. C. Treadway, Los Angeles, Calif. Railway-track crossing. 1,713,008; May 14.
- Sadtler, Philip B., Chicago, assignor to Swenson Evaporator Company, Harvey, Ill. Evaporator. 1,735,979; Nov. 19.
- Sadtler, Philip B., Chicago, assignor to Swenson Evaporator Company, Harvey, Ill. Evaporation. 1,735,980; Nov. 19.
- Sadtler, Samuel S., Springfield Township, Montgomery County, Pa., assignor to Amiesite Foundation Company. Construction of roads. 1,705,066; Mar. 12.
- Sadtler, Samuel S., Springfield Township, Montgomery County, Pa., assignor to Amiesite Foundation Company. Construction of roads for heavy traffic and having a foundation course of sand. 1,705,067; Mar. 12.
- Sadtler, Samuel S., Springfield Township, Montgomery County, Pa., assignor to Amiesite Foundation Company. Construction of roads having a foundation course of sand. 1,705,068; Mar. 12.
- Sadtler, Samuel S., Springfield Township, Montgomery County, Pa., assignor to Amiesite Asphalt Company of America, Camden, N. J. Roadway and making the same. 1,706,077; Mar. 19.
- Sadtler, Samuel S., Springfield Township, Montgomery County, Pa., assignor to Amiesite Asphalt Company of America, Camden, N. J. Foundation for roadways and other structures and making the same. 1,706,078; Mar. 19.
- Sadtler, Samuel S., Springfield Township, Montgomery County, assignor to Amiesite Asphalt Company of America, Philadelphia, Pa. Waterproofing stone. 1,730,245; Oct. 1.
- Sadtler, Samuel S., Philadelphia, Pa. Powdered detergent. 1,738,967; Dec. 10.
- Sadtler, Samuel S., Chestnut Hill, Springfield Township, Montgomery County, assignor to Amiesite Asphalt Company of America, Philadelphia, Pa. Liquefier for preparing stone for bitumen coating. 1,739,652; Dec. 17.
- Saeger, Charles M., jr., Washington, D. C. Metal-spraying device. 1,721,092; July 16.
- Saeki, Isao. (See Murai, T., Saeki, and Sato.)
- Safat Società Anonima Fabbbrica Armi-Torino. (See Masciucchi, Giuseppe, assignor.)
- Safeguard Electric Appliance Company. (See Taylor, Sanford, assignor.)
- Safeguard Electric Appliance Co., The. (See Ufford, G. W., and Allen, assignors.)
- Safe-T-Stat Company, The. (See Collins, W. A., and Jardine, assignors.)
- Safety Anti-Dazzle Bulb Syndicate Limited, The. (See Graves, Arnold, assignor.)
- Safety Appliance Co. (See Klehm, Henry, assignor.)
- Safety Car Heating & Lighting Company, The. (See Broekhuysen, Willem C., assignor.)
- Safety Car Heating & Lighting Company, The. (See Hulse, George E., assignor.)
- Safety Car Heating & Lighting Company, The. (See Johnson, Seth, assignor.)
- Safety Car Heating & Lighting Company, The. (See Livingston, Alan V., assignor.)
- Safety Car Heating & Lighting Company, The. (See Von Ohlsen, Louis, assignor.)
- Safety Car Heating & Lighting Company. (See Rumpf, John, assignor.)
- Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
- Safety Car Heating & Lighting Company, The. (See Vuilleumier, Rudolph, assignor.)
- Safety Device Fire Escape Company. (See Bocchino, Ernest, assignor.)
- Safety Dry Cleaning System Co., The. (See Hirst, Maurice D., assignor.)
- Safety Fumigant Company. (See Houghton, Harry W., assignor.)
- Safety Grinding Wheel and Machine Company, The. (See Weinland, Hermon G., assignor.)
- Safety Lock Handle and Valve Company. (See Kendrick, William D., assignor.)
- Safety Mining Company. (See Crawford, J. H., Helmholtz, and Ferrell, assignors.)
- Safety Mining Company. (See Helmholtz, A. W., and Ferrell, assignors.)
- Safety Stair Tread Company, The. (See Connelly, Donald S., assignor.)
- Safety Stair Tread Company, The. (See Loehr, Charles E., assignor.)
- Saffold, Carl R., Buffalo, and H. O. F. Tauffener, Kenmore, assignors, by mesne assignments, of one-third to M. M. Dold and two-thirds to D. T. Dold, Buffalo, N. Y. Signal for automobiles. 1,737,546; Nov. 26.
- Saffold, James W., Cleveland, Ohio. Wrench. 1,711,694; May 7.
- Saffold, James W., Cleveland, Ohio. Hack saw. 1,722,316; July 30.
- Safford, Henry T., El Paso, Tex. Pillow. 1,701,124; Feb. 5.
- Safran, Joseph, et al. (See Hamilnoff, Simon A., assignor.)
- Saftgard-Nudriare, Inc. (See Hutchinson, Edward, jr., assignor.)
- Sage, Edwin R., Jersey City, N. J. Sealed gasoline fill box. 1,733,559; Oct. 29.
- Sage, Herbert K., Los Angeles, Calif. Container for liquids. 1,732,282; Oct. 22.
- Sagendorph, Robert H., Brookline, assignor to Eastern Expanded Metal Company, Cambridge, Mass. Metal lath. 1,701,125; Feb. 5.
- Sagendorph, William K., executor. (See Hopkins, George F.)
- Sagenkahn, Benjamin R., and H. Seavers, Wilkes-Barre, Pa. Clamp. 1,709,743; Apr. 16.
- Sager, Abraham, Chicago, Ill. Ring. Des. 79,671; Oct. 22.
- Sager, Eli E., Seattle, Wash. Mixing tube. 1,737,336; Nov. 26.
- Sager, George A., Albany, N. Y. Automatic fuel cut-off. 1,716,244; June 4.
- Sager, Jesse H., Smithton, Pa. Pitcher. 1,741,339; Dec. 31.
- Sager Metal Weatherstrip Co. (See Wolff, George F., assignor.)
- Sager, Richard, Mannheim-Rheinau, assignor to Rheinische Gummi- und Celluloid Fabrik, Mannheim-Neckarau, Germany. Packing combs to prevent distortion of the teeth. 1,727,116; Sept. 3.
- Sagers, George F., Des Moines, Iowa. Rolling window screen. 1,738,925; Dec. 10.
- Saginaw Furniture Shops. (See Ginsburg, Lionel L., assignor.)
- Saginaw Manufacturing Company. (See Gilbert, Henry J., assignor.)
- Saginaw Sheet Metal Parts Corporation. (See Halladay, Calvin L., assignor.)
- Saglaw, Charles E. (See Glendinning, J. I., Rohan, and Saglaw.)
- Sagnier, Ignacio, Barcelona, Spain. Apparatus indicating average speed for vehicles. 1,715,471; June 4.
- Sague, George, Mfg. Corp. (See Sague, George, assignor.)
- Sague, George, Oakes, assignor to George Sague Mfg. Corp., Poughkeepsie, N. Y. Stamping device. 1,714,278; May 21.
- Sague, George, Oakes, N. Y., assignor to George Sague Mfg. Corp. Inserting machine. 1,738,119; Dec. 3.
- Sague, Walter A., Buffalo, N. Y. Base for posts. 1,711,178; Apr. 30.
- Sahagian, Sahag G., Pocahontas, Va. Device for preventing the shrinkage of dresses after being cleaned. 1,737,434; Nov. 26.
- Sahara, Kichisaburo, Kapaa, Hawaii. Toy. 1,739,329; Dec. 10.
- Saber, Hermine E., Los Angeles, Calif. Safety-pin holder. Des. 77,916; Mar. 5.
- Sahl, Barney, Boston, Mass. Automobile lock. 1,704,842; Mar. 12.
- Sahlberg, Rolf, assignor to The Aerocrete Corporation of America, New York, N. Y. Precast-concrete-beam construction. 1,720,693; July 16.
- Sahlin, Henning G., assignor to Pneumatic Drop Hammer Company, Boston, Mass. Drop hammer. 1,722,506; July 30.
- Sahlmann, Henry, Brooklyn, N. Y. Roller skate. 1,728,629; Sept. 17.
- Saiberlich, Erwin W., R. A., O., and F., assignors to Fox River Tractor Company, Appleton, Wis. Ensilage cutter. 1,713,094; May 14.
- Saiberlich, Frank. (See Saiberlich, Erwin W., R. A., O., and F.)
- Saiberlich, Oscar. (See Saiberlich, Erwin W., R. A., O., and F.)
- Saiberlich, Raymond A. (See Saiberlich, Erwin W., R. A., O., and F.)
- St. Clair, Byron W., Lynn, Mass., assignor to General Electric Company. Telemetric system. 1,718,497; June 25.
- St. Clair, John A., Indianapolis, Ind. Tool for treating saw teeth. 1,730,434; Oct. 8.
- St. Clair, Moffat, Galt, Ontario, Canada. Oil-atomizing nozzle. 1,713,357; May 14.
- St. Clair, Palmer, jr., Roanoke, Va. Combustion engine. 1,729,366; Sept. 24.
- St. Helens Iron & Marine Works. (See Usher, John J., assignor.)
- St. John, Charles B., St. Paul, Minn. Restaurant system. 1,722,342; July 30.
- St. John, Everett. (See Klein, C. H., and St. John.)
- St. John, Everett. (See Pike, V. B., and St. John.)
- St. John, Everett. (See Povlsen, P. K., and St. John.)
- St. John, Everett, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Drive ring. 1,735,939; Nov. 19.
- St. John, George, jr., Kew Gardens, N. Y. Bead-holding device. 1,726,933; Sept. 3.



- St. John, Henry W., Brightwaters, N. Y. Golf accessory. 1,723,091; Aug. 6.
- St. John, Henry W., Brightwaters, N. Y. Apparatus for transporting concrete. 1,725,681; Aug. 20.
- St. John, Henry W., Brightwaters, N. Y. Concrete-transporting apparatus. 1,725,682; Aug. 20.
- St. John, Oresta E., Gloversville, N. Y. Barking machine. 1,727,491; Sept. 10.
- St. Joseph Iron Works. (See Schmidtke, Albert H., assignor.)
- St. Louis Butchers' Supply Co. (See Kohl, Charles A., assignor.)
- St. Louis Doll and Toy Manufacturing Company. (See Petrov, Arthur, assignor.)
- St. Louis Label Works. (See Cowgill, Orph W., assignor.)
- St. Louis Motor Valve Company. (See Spoehrer, Hermann F., assignor.)
- St. Louis Pump & Equipment Company. (See Smith, Harry D., assignor.)
- St. Louis Pump and Equipment Company. (See Smith, Harry D. and W. D. assignors.)
- St. Ores, John W., Ellendale, N. Dak. Automobile headlight. 1,707,886; Apr. 2.
- St. Pierre Chain Corporation. (See St. Pierre, Henry, assignor.)
- St. Pierre, Fortuna J., Woodbury, Conn. Single-blow tubular-rivet header. 1,730,954; Oct. 8.
- St. Pierre, Henry, assignor to St. Pierre Chain Corporation, Worcester, Mass. Chain tool. 1,710,554; Apr. 23.
- St. Regis Paper Company. (See Cornell, John E., assignor.)
- St. Regis Paper Company. (See Cornell, J. E., and Verwys, assignors.)
- St. Regis Paper Company. (See Hartman, Carl H., assignor.)
- St. Regis Paper Company. (See Hartman, Louis H., assignor.)
- St. Regis Paper Company. (See Krasa, Albert, assignor.)
- St. Regis Paper Company. (See Kronmiller, Carl G., assignor.)
- Saitta, Philip W., assignor to Crescent Truck Company, Lebanon, Pa. Elevating device. 1,705,420; Mar. 12.
- Saives, Léon, assignor to L. Renault, Billancourt, France. Seat of motor cars. 1,713,980; May 21.
- Saives, Léon, Billancourt, assignor to L. Renault, Billancourt, Seine, France. Shock absorber. 1,724,423; Aug. 13.
- Saives, Léon, assignor to L. Renault, Billancourt, France. Automatic taking up of play. 1,733,240; Oct. 29.
- Saives, Léon, assignor to L. Renault, Billancourt, France. Windshield. 1,736,940; Nov. 26.
- Sakakeeny, Gabriel L., St. Louis, Mo. Edible container shell for ice cream and other confections. Des. 77,563; Jan. 22.
- Sakakura, Yukitoshi, Shibuyamachi, Toyotamagun, Tokyo-Fu, Japan. Manufacturing incandescent lamps. 1,697,780; Jan. 1.
- Saker, Harold H., Cleveland, Ohio. Trussed structure. 1,738,926; Dec. 10.
- Sakier, George, New York, N. Y. Painter's palette. 1,719,403; July 2.
- Sakier, George, New York, N. Y. Lamp shade and combination thereof with lamps. 1,741,658; Dec. 31.
- Saklatwalla, Byramji D., Crafton, assignor to Vanadium Corporation of America, Bridgeville, Pa. Vanadium alloy. 1,715,867; June 4.
- Saklatwalla, Byramji D., Crafton, assignor to Vanadium Corporation of America, Bridgeville, Pa. Vanadium-aluminum-silicon alloy. 1,727,180; Sept. 3.
- Saklatwalla, Byramji D., Crafton, assignor to Vanadium Corporation of America, Bridgeville, Pa. Alloy of aluminum, silicon, and iron. 1,732,915; Oct. 22.
- Sakowich, August C., New Hyde Park, N. Y. Stipple brush. 1,700,079; Jan. 22.
- Sala, Andriano, and G. Rinaldi, South Plainfield, N. J. Engine. 1,719,562; July 2.
- Sala, Charles J. (See Kern, J. G., and Sala.)
- Sala, Theodore A., Dallas, Tex. Heater grille. 1,697,371; Jan. 1.
- Sala, Theodore A., Dallas, Tex. Multiple-flue heater. 1,703,459; Feb. 26.
- Sala, Theodore A., Dallas, Tex. Gas burner. 1,710,841; Apr. 30.
- Sala, Theodore A., Dallas, Tex. Portable heating cabinet. 1,726,000; Aug. 27.
- Saladino, Charles, Middle Village, and J. Ciranko, New York, N. Y. Shoe-arch-shaping device. 1,697,662; Jan. 1.
- Salaverri Tellechea, Pedro, San Sebastian, Spain. Furnace and steam-boiler fire-box system. 1,698,771; Jan. 15.
- Salbador, Ramon, New Orleans, La. Pipe-coupling seal. 1,740,479; Dec. 24.
- Saldana, Felipe, Paris, France. Loud-speaker. 1,713,399; May 14.
- Salem Glass Works. (See Hires, John E., assignor.)
- Salenius, Elise S. (See Salenius, Eric G. N., assignor.)
- Salenius, Eric G. N., assignor to E. S. Salenius, Stockholm, Sweden. Milking machine. 1,732,421; Oct. 22.
- Salerni, Edoardo M. (See Salerni, Piero M. and E. M.)
- Salerni, Marie-Thérèse E. (See Salerni, Piero M., assignor.)
- Salerni, Piero, M., Route de Villefrance, Nice, assignor to Marie-Thérèse E. Salerni, Nice, France. Valve for pneumatic tires. 1,738,927; Dec. 10.
- Salerni, Piero M., Charing Cross, London, England, and E. M. Salerni, Paris, France, assignors to E. M. S. Industrial Processes Limited, London, England. Distillation apparatus. Res.17,251; Apr. 2.
- Salerno, Felix, New York, N. Y. Hair-waving-operator's cabinet. 1,735,183; Nov. 12.
- Salfer, John P., Mankato, Minn. Control switch. 1,727,676; Sept. 10.
- Salfisberg, Leroy L., South Orange, N. J. Key holder. 1,730,246; Oct. 1.
- Salinger, Fred, Philadelphia, Pa. Lock for coin banks. 1,709,157; Apr. 16.
- Salinger, Morris, assignor of one-half to E. D. Stein, New York, N. Y. Clock case. Des. 77,651; Feb. 5.
- Salinger, Morris, assignor of one-half to E. D. Stein, New York, N. Y. Clock hand or similar article. Des. 80,052; Dec. 3.
- Salisbury, Eugene F., Minden, La. Railway-switch stand. 1,714,450; May 21.
- Salisbury, Hervey M., Walnut Grove, and A. E. Miller, Sacramento, Calif. Control mechanism for aeroplanes. 1,718,707; June 25.
- Salisbury, Jessup, Mount Carmel, assignor to The American Buckle Co., New Haven, Conn. Slide buckle. 1,714,924; May 28.
- Salisbury, Moses B., Chicago, Ill. Nonskidding insulated stool. 1,734,597; Nov. 5.
- Salisbury, Wilbur A., Seattle, Wash. Heating unit. 1,727,564; Sept. 10.
- Salkind, Sonia, assignor to Harvey Nichols and Company Limited, London, England. Woman's undergarment. 1,713,922; May 21.
- Sallada, Clarence E., Minneapolis, Minn. Air moistener. 1,720,241; July 9.
- Saller, Roberto, Buenos Aires, Argentina. Speed clutch. 1,724,044; Aug. 13.
- Salley, Frank W., Tampa, Fla. Auto pocket article carrier. 1,727,485; Sept. 10.
- Salley, Guss C., Manhattan, Kans. Hemostatic instrument. 1,704,871; Mar. 12.
- Salley, Howard A., Rehoboth, Mass. Separable fastener. 1,735,620; Nov. 12.
- Sallmann, Gotthardt A., Pleissa, near Limbach, Germany. Making texture having the appearance of leather. 1,725,675; Aug. 20.
- Sallop, Harry A., New York, N. Y. Furniture cover. 1,717,121; June 11.
- Salmon, Clem K., New Orleans, La. Crib. 1,728,982; Sept. 24.
- Salmon, James P., Philadelphia, Pa. Rotary tool handle and tool therefor. 1,736,549; Nov. 19.
- Salomon, Irving, Chicago, Ill. Game. 1,723,377; Aug. 6.
- Salomon, Max, West Springfield, Mass. Folding box. 1,705,313; Mar. 12.
- Salsich, Neil E. (See Dougherty, R. S. A., and Salsich.)
- Salsich, Neil E., Bethlehem, Pa. Insulated rail joint. 1,736,328; Nov. 19.
- Salstrom Carving Machine Company. (See Salstrom, David B., assignor.)
- Salstrom, David B., assignor to Salstrom Carving Machine Company, Chicago, Ill. Wood-carving machine. 1,710,899; Apr. 30.
- Salstrom, David B., assignor to Salstrom Carving Machine Company, Chicago, Ill. Carving-machine bit. 1,717,736; June 18.
- Salt, Elmer H., assignor to The Globe-Wernicke Company, Norwood, Ohio. Filing device. 1,731,828; Oct. 15.
- Salterini, John B., New York, N. Y. Bridge-lamp arm. Des. 78,532; May 14.
- Salterini, John B., New York, N. Y. Bridge-lamp arm. Des. 78,533; May 14.
- Salterini, John B., New York, N. Y. Bridge lamp. Des. 78,534; May 14.
- Salterini, John B., New York, N. Y. Bridge lamp. Des. 78,535; May 14.
- Salterini, John B., New York, N. Y. Bridge lamp. Des. 78,536; May 14.
- Salterini, John B., New York, N. Y. Fern stand. Des. 78,944; July 9.
- Salterini, John B., New York, N. Y. Floor lamp. Des. 79,945; Nov. 19.
- Salterini, John B., New York, N. Y. Floor lamp. Des. 79,946; Nov. 19.
- Salterini, John B., New York, N. Y. Bridge lamp. Des. 79,947; Nov. 19.
- Salterini, John B., New York, N. Y. Bridge lamp. Des. 79,948; Nov. 19.
- Saltiel, Johnatheon T., assignor to J. A. Taman and O. J. Taman, Gary, Ind. Reinforced construction unit. 1,709,954; Apr. 23.
- Salt's Textile Manufacturing Company, The. (See Horsfall, Herbert, assignor.)
- Saltzman, Joseph. (See Zerman Anton, assignor.)
- Salustri, David, Yonkers, N. Y. Post clamp. 1,710,842; Apr. 30.
- Salvage Process Corporation. (See Engstrand, Gunnar C., assignor.)
- Salvage Process Corporation. (See Olsson, Bengt, assignor.)
- Salvat, Pierre, San Francisco, Calif. Dressing table. Des. 78,042; Mar. 19.
- Salvaty, Benjamin B. (See De Long, Nelson, assignor.)



- Salvino, Anthony W., Seattle, Wash. Combination headlight. 1,722,683; July 30.
- Salz Brothers, Inc. (See Salz, Herman, assignor.)
- Salz, Herman, New York, N. Y., assignor to Salz Brothers, Inc. Pocket container. 1,711,970; May 7.
- Salz, Ignatz, New York, N. Y. Desk fountain-pen holder. 1,737,948; Dec. 3.
- Salzman, Samuel I., Baltimore, Md. Hardening steel. 1,732,244; Oct. 22.
- Samard, Pete, Canby, Oreg. Dough roller. 1,732,142; Oct. 15.
- Samiran, David, assignor of one-half to P. Melville, Langley Field, Hampton, Va. Fluid segregator. 1,700,811; Feb. 5.
- Samminiatielli, Oreste, East Toledo, Ohio. Display device. 1,711,858; May 7.
- Samminiatielli, Oreste, East Toledo, Ohio. Display device. 1,711,859; May 7.
- Samminiatielli, Oreste, East Toledo, Ohio. Display device. 1,712,092; May 7.
- Samminiatielli, Oreste, East Toledo, Ohio. Display device. 1,712,282; May 7.
- Samour, Anoush M. (See Samour, Tegrar M., assignor.)
- Samour, Tegrar M., assignor to A. M. Samour, Roslindale, Mass. Wind wheel and method of making. 1,724,807; Aug. 13.
- Sample, Leslie. (See Clark, R. W., and Sample.)
- Sample, Ralph M. (See Crawford, A. L., and Sample.)
- Sampson, Erick G., et al. (See Swanson, Charles J., assignor.)
- Sampson, George W., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Blank-holding apparatus. 1,699,677; Jan. 22.
- Sampson, Henry L., Los Angeles, Calif. Electric control. 1,728,983; Sept. 24.
- Sampson, Jacques, Inc. (See Sweeney, Harry C., assignor.)
- Sampson, Louis, Chicago, Ill. Tape dispensing and printing device. 1,705,588; Mar. 19.
- Sampson, Norman E., Detroit, Mich., assignor to Canton Forge & Axle Company, Canton, Ohio. Making rail anchors. 1,700,775; Feb. 5.
- Sampson, Samuel, New York, N. Y. Belt buckle. Des. 77,983; Mar. 12.
- Samsel, George E., Melvern, Kans. Burglar-alarm switch. 1,719,085; July 2.
- Samson Cordage Works. (See King, Herbert F., assignor.)
- Samson, George P., Rochester, N. Y. Pocket case. 1,712,777; May 14.
- Samson, William J., assignor to Beehler Steel Products Company, St. Louis, Mo. Trunk Bolt. Des. 77,984; Mar. 12.
- Samstag, Henry F., New York, N. Y. Tobacco pipe. 1,709,375; Apr. 16.
- Samstag, Henry R., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Leather hand bag. Des. 78,945; July 9.
- Samstag, Henry R., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Leather hand bag. Des. 78,946; July 9.
- Samstag & Hilder Bros., Inc. (See Samstag, Henry R., assignor.)
- Samuel, André A., Paris, France. Electric and thermal insulator and manufacturing same. 1,704,629; Mar. 5.
- Samuel, Frank, London, England. Talking machine. 1,730,067; Oct. 15.
- Samuelian, Sahag M., Providence, R. I. Disappearing headrest for barber chairs. 1,714,696; May 28.
- Samuels, Benjamin S., New York, N. Y., assignor to Providence Stock Company, Providence, R. I. Connector member for watch bracelets. 1,722,317; July 30.
- Samuels, H. C. S. (See Killian, Clara D., assignor.)
- Samuels, Maurice M., New York, N. Y., assignor of one-half to R. V. Dunbar, Boundbrook, N. J. High-tension switch mechanism. 1,711,747; May 7.
- Samuels, Maurice M., and J. Amon, New York, N. Y. Contact construction. 1,732,731; Oct. 22.
- Samuels, Maurice M., and J. Amon, New York, N. Y. Electric-circuit interrupter. 1,734,982; Nov. 12.
- Samuelson, David B., St. Paul, Minn. Food scale. 1,703,639; Feb. 26.
- Sanamé, Arsenio, New York, N. Y., assignor of one-half to P. Saucedo. Wheeled toy. 1,710,461; Apr. 23.
- Sanborn, Arthur R., East Orange, N. J., assignor to General Electric Company. Controller. 1,741,165; Dec. 31.
- Sanborn, Grace N., et al. (See Anderson, Carl G., assignor.)
- Sanborn, John B., Farmington, Conn. Picture frame. 1,740,203; Dec. 17.
- Sanchez, Antonio, Washington, D. C. Selector switch for annunciator systems. 1,735,184; Nov. 12.
- Sanchez, Fidel, deceased, Guadalajara, Mexico; J. Sanchez G., administrator. Closing device and safety seal. 1,702,853; Feb. 19.
- Sanchez G., Jose, administrator. (See Sanchez, Fidel.)
- Sanchez, Martin, Nuevo Laredo, Mexico. Insect destroyer. 1,714,524; May 28.
- Sancioni, Aurelio, Detroit, Mich. Radiator ornament. 1,738,846; Dec. 10.
- Sand, Siegmund, and A. A. Ritter, assignors to Hartmann Trunk Company, Racine, Wis. Wardrobe trunk. Des. 78,698; June 4.
- Sand Spun Patents Corporation. (See Moore, W. D., Barr, Moore, and Wilson, assignors.)
- Sandage Company, The. (See Rowley, Harry M., assignor.)
- Sandall, Lloyd R., Bassett, Nebr. Draft device. 1,726,860; Sept. 3.
- Sandberg, Carl O., Orebro, Sweden. Boring bit. 1,705,647; Mar. 19.
- Sandberg, Erik S., Skutskar, Sweden. Steam trap. 1,714,925; May 28.
- Sandberg, Nels, assignor to Waldorf Paper Products Company, St. Paul, Minn. Portable elevator. 1,697,473; Jan. 1.
- Sandberg, William J. (See Blaisdell, Herbert E., assignor.)
- Sandberg, William J. (See Mathiesen, Marius, assignor.)
- Sandberg, William J. (See Meiselbach, August D., assignor.)
- Sandbo, Alexander T., San Francisco, Calif. Fishing tackle. 1,702,417; Feb. 19.
- Sande, Andrew, Chicago, Ill. Attachable nut. 1,714,520; May 28.
- Sandell, Harry J., Ashby, Minn. Water-cooling system. 1,721,924; July 23.
- Sandell, Joseph H., Chicago, assignor to Comstock-Castle Stove Company, Quincy, Ill. Heater. Des. 78,364; Apr. 23.
- Sander, Erich, Gevelsberg, Germany. Drilling, milling, and like machine. 1,719,238; July 2.
- Sander, Wilhelm. (See Müller, K., and Sander.)
- Sander, Wilhelm, Essen-Ruhr, assignor to Th. Goldschmidt A.-G., Essen, Germany. Improving aluminum alloys. 1,726,194; Aug. 27.
- Sanders, Adam A., New York, N. Y. Back washer. 1,730,299; Oct. 1.
- Sanders, Carl E., Beverly Hills, Calif. Dispensing container. 1,731,545; Oct. 15.
- Sanders, Carlton J., assignor to E. P. Henning, Indianapolis, Ind. Combination recorder. 1,727,907; Sept. 10.
- Sanders, Clyde S., Midwest, Wyo., assignor to The Midwest Refining Company, Denver, Colo. Thermostatic switch. 1,720,294; July 9.
- Sanders, Clyde W., Eagle Rock, Calif. Combined ironing board, convertible table, and cabinet. 1,700,545; Jan. 29.
- Sanders, Darcy G., et al. (See Roberts, Percy W., assignor.)
- Sanders, E. George. (See Niquette, J. H., and Sanders.)
- Sanders, Edward H., assignor to Shell Company of California, San Francisco, Calif. Advertising device. 1,739,915; Dec. 17.
- Sanders, Ernest E., Reno, Nev. Magnet. 1,711,657; May 7.
- Sanders, Fred, Los Angeles, Calif. Interchangeable clipper and vibrator. 1,719,140; July 2.
- Sanders, Irvin S., Yuma, Ariz. Head gate. 1,736,628; Nov. 19.
- Sanders, Joseph C., assignor to American Foundry & Manufacturing Co., St. Louis, Mo. Floor drain. 1,706,079; Mar. 19.
- Sanders, Nico, Paris, France. Manifold typewriter. 1,737,337; Nov. 26.
- Sanders, Reginald C. H., et al. (See Roberts, Percy W., assignor.)
- Sanders, St. Elmo, Kansas City, Mo. Surgical-needle holder. 1,704,992; Mar. 12.
- Sanders, Wilbur F., Chicago, Ill. Desk pad. 1,709,544; Apr. 16.
- Sanderson, Dale T., Berwyn, assignor to Williamson Candy Company, Chicago, Ill. Dispensing container for piece goods. 1,730,437; Oct. 8.
- Sanderson, Jimmie, and W. Cooreham, Martindale, Tex. Automobile casing rack. 1,723,526; Aug. 6.
- Sanderson, Joseph H., Babylon, assignor to Vulcanite Manufacturing Company, Lindenhurst, N. Y. Safety-pin card mounting. 1,702,797; Feb. 19.
- Sanderson, Phillip W., assignor to The Miller Rubber Company, Akron, Ohio. Apparatus for making tire tubes. 1,721,975; July 23.
- Sanderson, Walter, assignor of one-half to V. W. Palmer, Milwaukee, Wis. Game. 1,728,630; Sept. 17.
- Sandholdt, John, Jr., Monterey, Calif. Lock for multiple doors. 1,724,424; Aug. 13.
- Sandifur, Claude W. (See Gray, C. W., Burdick, Moore, and Sandifur.)
- Sandig, Ernst, assignor to the firm Julius Friedlaender, Gummiwaren-Fabrik G. m. b. H., Berlin, Germany. Medical syringe. 1,730,983; Oct. 8.
- Sandin, Jerome, Wilkinsburg, Pa., assignor to Westinghouse Electric & Machinery Company. Fuse. 1,700,080; Jan. 22.
- Sandin, Jerome, Wilkins Township, Allegheny County, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive fuse. 1,702,484; Feb. 19.
- Sandin, Jerome, Penn Township, Allegheny County, and H. J. Crabbs, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. 1,705,684; Mar. 19.
- Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse mechanism. 1,705,685; Mar. 19.
- Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fuse. 1,730,865; Oct. 8.
- Sandkuhl, Edmund H., Staten Island, assignor to David H. Zell, Inc., New York, N. Y. Guard for coin-collection receptacles. 1,701,163; Feb. 5.



- Sandler, Joseph L., assignor to The Helen Manufacturing Co., Inc., and Lowenstein-Sandler & Siegel, Inc., Newark, N. J. Man's engagement ring. Des. 79,258; Aug. 20.
- Sandmann, Frank A., Rahway, N. J., assignor, by mesne assignments, to The Globe-Wernicke Company, Cincinnati, Ohio. Top for furniture. 1,705,784; Mar. 19.
- Sandner, Erich, Kobe, Japan. Device for damping torsional vibrations. 1,715,953; June 4.
- Sandoz, Alfred E., Newark, N. J. Hand binding tool. 1,728,631; Sept. 17.
- Sands, A. S., et al. (See Baker, George, assignor.)
- Sands, Charles F. (See Lonaberger, R. F., and Sands.)
- Sands Manufacturing Company, The. (See Hamilton, Paul H., assignor.)
- Sands, Walter B., Chinook, Mont. Two-cycle internal-combustion engine. 1,711,906; May 7.
- Sandstrom, Felix C., Milwaukee, Wis., and H. O. Alexander, Chicago, Ill., assignors to International Harvester Company. Wash-rod-ring remover. 1,729,088; Sept. 24.
- Sandt, Julius, Pirmasens, Germany. Cutting press. 1,732,066; Oct. 15.
- Sandwell, Percy. (See Bell-Irving, R., and Sandwell.)
- Sanford, Alfred E., Knoxville, Tenn. Radio apparatus. 1,170,553; Apr. 23.
- Sanford, Alfred E., Knoxville, Tenn. Radio apparatus. 1,705,999; Mar. 19.
- Sanford, Aubrey, New York, N. Y. Incandescent lamp. Des. 79,309; Aug. 27.
- Sanford, Charles L., Meadville, Pa. Fastener for garments and other articles. 1,704,579; Mar. 5.
- Sanford, George R. (See Torrey, B., Jr., and Sanford.)
- Sanford, Hugh W., Knoxville, Tenn. Automobile shock control. 1,703,323; Feb. 26.
- Sanford, Hugh W., Knoxville, Tenn. Railway car. 1,705,098; Mar. 12.
- Sanford Investment Corporation. (See Jones, Harry W., assignor.)
- Sanford Manufacturing Co. (See Carpenter, William W. S., assignor.)
- Sanford Riley Stoker Company. (See Riley, Robert S., assignor.)
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-applying means. 1,702,394; Feb. 19.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,705,737; Mar. 19.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Vehicle axle. 1,705,785; Mar. 19.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating shaft and its connection and mounting. 1,725,020; Aug. 20.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,726,413; Aug. 27.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-operating connection. 1,728,255; Sept. 17.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Drum mounting. 1,728,632; Sept. 17.
- Sanford, Roy S., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,737,025; Nov. 26.
- Sanford, Stanley A., Shaker Heights, Ohio. Softening water. 1,705,589; Mar. 19.
- Sanford, Stephen, & Sons, Inc. (See Coyle, J. A., and Phoenix, assignors.)
- Sanford, Stephen, & Sons, Inc. (See Zapp, Arnold J., assignor.)
- Sanford, William H., Chicago, Ill. Liquid dispenser. 1,720,610; July 9.
- Sangamo Electric Company. (See Holtz, Frederick C., assignor.)
- Sangamo Electric Co. (See Koenig, Werner, assignor.)
- Sangamo Electric Company. (See Kurz, Fred, assignor.)
- Sangamo Electric Company. (See Lanphier, R. C., and Holtz, assignors.)
- Sangamo Electric Company. (See Martin, James S., assignor.)
- Sangamo Electric Company. (See Wilmeth, Roscoe H., assignor.)
- Sanger, Harry G. (See Reed, N. S., and Sanger.)
- Sangren, Harry A., assignor to American Optical Company, Southbridge, Mass. Bridge for an ophthalmic mounting. Des. 78,716; June 11.
- Sanguinette, Baptiste F., San Jose, Calif. Cooker. 1,707,817; Apr. 2.
- Sani Paper Products Co. Inc. (See Herting, Otto, assignor.)
- Sanitarium Equipment Company. (See Goodrich, Norris E., assignor.)
- Sanitarium Equipment Company. (See Wentworth, Merton W., assignor.)
- Sanitarium & Hospital Equipment Co. (See Goodrich, Norris E., assignor.)
- Sanitary Products Corporation of America. (See Fine, Bernard M., assignor.)
- Sanitary Scale Company. (See Ludlow, George M., assignor.)
- Sanitary Shaker Corporation. (See Ford, David O., assignor.)
- Sankey, John F., et al., executors. (See Hollis, Otis A.)
- Sanner, Hulbert, assignor to L. Ederer, Chicago, Ill. Time switch. 1,711,812; May 7.
- Sanso, Francisco. (See Fidalgo, J., Orive, and Sanso.)
- Santa Barbara Lumber Company. (See Cummings, Earle W., assignor.)
- Santa Cruz Portland Cement Company. (See Ryder, Robert W., assignor.)
- Santa Emma, Pasquale, Fresno, Calif. Tone-modulating device. 1,702,561; Feb. 19.
- Santiago, James J. (See Campbell, S. L., and Santiago.)
- Santilli, Giuseppe, Astoria, N. Y. Dual typewriting mechanism and desk structure. 1,727,252; Sept. 3.
- Santos, John R. L., assignor to The Bartlett Hayward Company, Baltimore, Md. Gas holder. 1,699,162; Jan. 15.
- Santurella, Peter, Columbus, Ohio. Hair-curling apparatus. 1,709,918; Apr. 23.
- Santurello, Peter, Columbus, Ohio. Hair-curling apparatus. 1,714,439; May 21.
- Sanymetal Products Company, The. (See Carpenter, R. F., and Anderson, assignors.)
- Sapienza, Paul, Detroit, Mich. Internal-combustion engine. 1,740,040; Dec. 17.
- Sapo, Morris, New York, N. Y. Combination implement. 1,712,405; May 7.
- Sapora, Joseph J., Renovo, Pa. Mechanical wheeled toy. 1,740,269; Dec. 17.
- Saporiti, John P., Barre, Vt. Polishing apparatus. 1,738,394; Dec. 3.
- Sapp, Claude G., Olympia, Wash. Log-boring machine. 1,728,367; Sept. 17.
- Sapp, James E., assignor to Rich Manufacturing Company, Bainbridge, Ga. Refrigerator. 1,734,404; Nov. 5.
- Sappington, G. Ridgely, et al., trustees. (See Mas, George N., assignor.)
- Sarafan, Haig, assignor to Novelite, Inc., New York, N. Y. Advertising panel. Des. 79,670; Oct. 22.
- Saranac Automatic Machine Corporation. (See Craig, Edward, assignor.)
- Sarandese, Jose, New York, N. Y. Stiffener for soft collars. 1,740,270; Dec. 17.
- Sarason, David, Munich, Germany. Apparatus for hot treatment of the inner female genitals. 1,729,296; Sept. 24.
- Sarason, David, Munich, Germany. Apparatus for the external treatment of parts of the body by water. 1,732,380; Oct. 22.
- Sarau, George A., et al., trustees. (See Slater, Henry B., assignor.)
- Sarazin, Robert, Nully-sur-Seine, France. Electric-arc welding transformer and controlling device. 1,720,446; July 9.
- Sardeson & La Mere Patents Holding Company. (See Sardeson, R., and La Mere, assignors.)
- Sardeson, Robert, and F. J. La Mere, assignors to Sardeson & La Mere Patents Holding Company, Ltd., Minneapolis, Minn. Engine mounting for automotive vehicles. 1,698,453; Jan. 8.
- Sarfert, Harry, Philadelphia, and A. A. Arnold, South Pottstown, Pa. Guard for doubling mechanism of silk-throwing machines. 1,720,447; July 9.
- Sarfert, Willy, Dresden, assignor to Sachsenwerk, Licht- und Kraft-Aktiengesellschaft, Niedersiedlitz, Germany. Electrical-quantities measuring system. 1,707,773; Apr. 2.
- Sarfert, Willy, Dresden, assignor to the Firm of Sachsenwerk, Licht- und Kraft-Aktiengesellschaft, Niedersiedlitz, near Dresden, Germany. Compensated asynchronous machine with supply to the rotor. 1,724,730; Aug. 13.
- Sargent, Arthur C., Lubec, Me. Oven. 1,706,186; Mar. 19.
- Sargent, Charles E., Elgin, Ill. Windmill generator. 1,707,235; Apr. 2.
- Sargent, Charles G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Silk-washing machine. 1,709,158; Apr. 16.
- Sargent & Company. (See Thomas, William N., assignor.)
- Sargent & Company. (See Van Sickles, Irving N., assignor.)
- Sargent, Edmund S. (See Cave, H., Manning, and Sargent.)
- Sargent, Frank C., Winchester, and R. W. Armstrong, Hamilton, Mass. Tagger. 1,702,319; Feb. 19.
- Sargent, Frederick G., Westford, Mass. Device for increasing buoyancy. 1,738,210; Dec. 3.
- Sargent, Joseph, Wausau, Wis. Collar button. 1,724,223; Aug. 13.
- Sargent, Lee W., Red Wing, Minn., assignor to J. B. Brady, Washington, D. C. Vending machine. 1,738,616; Dec. 10.
- Sargent, Myrle S., Ashtabula, Ohio. Tool for spreading battery terminals. 1,719,311; July 2.
- Sargent, Robert A., assignor to The W. C. Heller & Co., Montpelier, Ohio. Display-cabinet structure. 1,729,968; Oct. 1.
- Sargent, Sumner B., jr., Los Angeles, Calif. Liner pump. 1,702,619; Feb. 19.
- Sargent, Sumner B., Los Angeles, Calif. Threaded and reversible standing-valve socket. 1,703,364; Feb. 26.
- Sargent, Sumner B., Los Angeles, Calif. Blind-cage standing-valve organization. 1,706,593; Mar. 26.
- Sargent, Sumner B., Los Angeles, Calif. Self-adjusting liner pump. 1,737,270; Nov. 26.
- Sargent, Tom. (See Robinson, P. G., Sargent, and French.)
- Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)



- Sargent's, C. G., Sons Corporation. (See Sargent, Charles G., assignor.)
- Sarkisian, Dickran M., Forest Hills, N. Y. Brake-band structure. 1,698,513; Jan. 8.
- Sarkisian, Dickran M., Forest Hills, N. Y. Adjustable shade bracket. 1,701,960; Feb. 12.
- Sarkisian, Dickran M., Forest Hills, N. Y. Draw-over master heading hook. 1,735,016; Nov. 12.
- Sarran, Wallace E., assignor to The Charles W. Breneman Company, Cincinnati, Ohio. Shade roll. 1,701,465; Feb. 5.
- Sarran, Wallace E., assignor to The Chas. W. Breneman Company, Cincinnati, Ohio. Shade roll. 1,727,788; Sept. 10.
- Sarrazin, Jules J., New Orleans, La. Cap lock. 1,736,838; Nov. 26.
- Sarrett, Bertram, Nashville, Tenn. Sanitary device for water-closet bowls. 1,736,467; Nov. 19.
- Sartakoff Corporation et al. (See Sartakoff, Jack D., assignor.)
- Sartakoff, J. D., Corporation et al. (See Sartakoff, Jack D., assignor.)
- Sartakoff, Jack D., assignor of one-half to J. D. Sartakoff Corporation and one-half to Khetah Corporation, New York, N. Y. Liquid-level indicator. 1,698,968; Jan. 15.
- Sartakoff, Jack D., assignor, by mesne assignments, of one-half to Khetah Corporation, New York, N. Y. Liquid-level-indicating system. 1,699,812; Jan. 22.
- Sartakoff, Jack D., New York, N. Y., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Device parts and sealing the same. 1,718,708; June 25.
- Sartakoff, Jack D., assignor of one-half to J. D. Sartakoff Corporation and one-half to Khetah Corporation, New York, N. Y. Gauge for and method of measuring liquids. 1,720,528; July 9.
- Sarver, Ray D., Owatonna, Minn., assignor, by mesne assignments, to Hudson Manufacturing Company. Coal-burning brooder stove. 1,699,512; Jan. 15.
- Sas, Elmer, New York, N. Y. Ring game. 1,705,501; Mar. 19.
- Sass, John J., assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Ribbon spool. 1,700,377; Jan. 29.
- Sassano, Joseph, New York, N. Y. Floor waxing and polishing machine. 1,739,653; Dec. 17.
- Satenstein, Jesse. (See Morgan, John L., assignor.)
- Satin Finish Hardwood Flooring Company. (See Gardiner, William C., assignor.)
- Sato, Heichiro. (See Murai, T., Saeki, and Sato.)
- Sato, Junjiro and T., Jackson, Mich. Composition of matter for battery boxes. 1,711,544; May 7.
- Sato, Ryuji, New York, N. Y. Shoe attachment. 1,701,424; Feb. 5.
- Sato, Tsunaji. (See Sato, Junjiro and T.)
- Sattler, Carl, and H. B. Haskins, assignors, by mesne assignments, to The Dura Company, Toledo, Ohio. Window structure. 1,700,238; Jan. 29.
- Sattler, Carl, and H. B. Haskins, assignors, by mesne assignments, to The Dura Company, Toledo, Ohio. Window structure. 1,700,239; Jan. 29.
- Sattler, Stephen, Tulsa, Okla. Copyholder. 1,715,472; June 4.
- Sauceda, Pedro. (See Sanamé, Arsenio, assignor.)
- Sauer, Conrad, assignor of thirty per cent to J. G. Doelfel, Pittsburgh, Pa. Button. 1,719,904; July 9.
- Sauer, Conrad, assignor of fifty per cent to J. G. Doelfel, Pittsburgh, Pa. Supporting and clamping device. 1,740,876; Dec. 24.
- Sauer, George E., and O. Lutz, Milwaukee, Wis. Automobile hood lock. 1,727,789; Sept. 10.
- Sauer, Grace S., New York, N. Y. Textile fabric or article of similar nature. Des. 79,987; Nov. 26.
- Sauer, Grace S., New York, N. Y. Textile fabric or article of similar nature. Des. 79,988; Nov. 26.
- Sauer, Grace S., New York, N. Y. Textile fabric or article of similar nature. Des. 79,989; Nov. 26.
- Sauer, Grace S., New York, N. Y. Textile fabric or article of similar nature. Des. 79,990; Nov. 26.
- Sauer, Grace S., New York, N. Y. Textile fabric or article of similar nature. Des. 79,991; Nov. 26.
- Sauer, John. (See Stark, W. H., and Sauer.)
- Sauer, John, Eagle River, Wis. Bathtub construction. 1,704,105; Mar. 5.
- Sauer, Johan N. A., deceased, Amsterdam, Netherlands; H. A. P. M. Tervoorren, representative, assignor to Naamloze Vennootschap Algemeene Norit Maatschappij, Amsterdam, Netherlands. Regeneration or revivification of purifying, filtering, and decolorizing agents. 1,709,284; Apr. 16.
- Sauer, Louis A., Willows, Calif. Vermin trap. 1,713,557; May 21.
- Sauer, Louis B., Western Springs, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Distributor. 1,717,854; June 18.
- Sauer, Louis B., Western Springs, and G. A. Yanochowski, La Grange, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Distributor. 1,723,378; Aug. 6.
- Sauer, Louis B., Western Springs, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Distributor. 1,724,682; Aug. 13.
- Sauer, Louis B., Western Springs, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Coil. 1,729,492; Sept. 24.
- Sauer, Louis J., Oak Park, and C. H. Joy, jr., assignors to Charles H. Joy, sr., Chicago, Ill. Ball bearing. 1,730,630; Oct. 8.
- Sauerman Bros., Inc. (See Roe, Harry A., assignor.)
- Saugman, Hartvig P., Glendale, Calif. Dispensing device. 1,715,429; June 4.
- Saugman, Hartvig P., Glendale, Calif. Beverage dispenser. 1,720,967; July 16.
- Saul, Waldo A., Lexington, assignor, by mesne assignments, to Elliott Addressing Machine Company, Cambridge, Mass. Stencil-tempering device. 1,713,451; May 14.
- Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Clock case. Des. 79,388; Sept. 10.
- Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Clock case. Des. 79,389; Sept. 10.
- Saunders, Albert F., Syracuse, assignor to T. N. Benedict Mfg. Co., East Syracuse, N. Y. Clock case. Des. 79,390; Sept. 10.
- Saunders, Arthur W., Wymondham, England. Appliance for brushing, dusting, and polishing floors. 1,729,311; Sept. 24.
- Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Self-serving store. 1,704,061; Mar. 5.
- Saunders, Emmett A., South Bend, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Quick-operating fastener. 1,726,965; Sept. 3.
- Saunders, Herbert L., Gloucester, Mass. Wreck-indicating buoy. 1,732,170; Oct. 15.
- Saunders, John J., Edmonton, Alberta, Canada. Automatic force-feed lubricating attachment. 1,723,811; Aug. 6.
- Saunders, John S., Christchurch, England. Reflector for motor-vehicle lamps. 1,698,025; Jan. 8.
- Saunders, Kenneth H., Blackley, Manchester, and H. Wignall, Huddersfield, assignors to British Dyestuffs Corporation Limited, Blackley, Manchester, England. Manufacture of ethylene glycol. 1,737,545; Nov. 26.
- Saunders, Philip K., Johannesburg, South Africa. Piston for fluid-pressure engines. 1,719,727; July 2.
- Saunders, Philip K., Johannesburg, South Africa. Piston for use in internal-combustion engines. 1,725,676; Aug. 20.
- Saunders, S. E., Limited. (See Clarkson, Alick, assignor.)
- Saunders, William T., Los Angeles, Calif. Fireproofing device. 1,719,728; July 2.
- Saurer, Paul R., assignor to The Peele Company, New York, N. Y. Dumb-waiter door. 1,718,257; June 25.
- Saurman, Edward A., Oakland, Calif. Shift-lever handle-illuminating device. 1,705,069; Mar. 12.
- Saurman, Victor G., Oakland, Calif. Sewing machine. 1,738,672; Dec. 10.
- Saurwein, Albert G., Cleveland, Ohio. Electric arc lamp. Des. 80,244; Dec. 31.
- Sausser, S. A. (See Wylder, Hermann, assignor.)
- Sauter, Alfred E., Bronx, N. Y. Nonslipping abdominal bandage. 1,739,989; Dec. 17.
- Sauter, Fritz, Basel, Switzerland. Electric remote-control apparatus for stop valves. 1,698,174; Jan. 8.
- Sauter, Fritz, Basel, Switzerland. Time-switch mechanism. 1,723,890; Aug. 6.
- Sautier, George H., Chicago, Ill. Signal device for automobiles. 1,703,957; Mar. 5.
- Sautter, William R., assignor of forty per cent to N. C. Pierce, Phoenix, Ariz. Coper for forming the ends of strips and sticks. 1,736,629; Nov. 19.
- Sauvage, Herbert J., Chicago, Ill. Heater. 1,737,732; Dec. 3.
- Sauvage, Herbert J., assignor to Drying Systems, Inc., Chicago, Ill. Draft control for furnaces. 1,707,281; Apr. 2.
- Sauvage, Herbert J., assignor to trustees of the Electro Thermostatic Control Company, Chicago, Ill. Thermostatic electric switch. 1,717,628; June 18.
- Sauvage, Herbert J., assignor to Drying Systems, Inc., Chicago, Ill. Oil burner. 1,724,373; Aug. 13.
- Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Ladder. 1,714,451; May 21.
- Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Hand brake. 1,720,095; July 9.
- Sauvage, William H., New York, N. Y., assignor, by mesne assignments, to The Gould Coupler Company. Slack adjuster. 1,723,527; Aug. 6.
- Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Air-brake system. 1,738,395; Dec. 3.
- Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Foundation brake rigging. 1,738,485; Dec. 3.
- Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,739,694; Dec. 17.
- Sauvage, William H., assignor, by mesne assignments, to Gould Coupler Company, New York, N. Y. Slack adjuster. 1,741,739; Dec. 31.
- Sauvé, Elzéar. (See Chicoine, L. P., and Sauvé.)
- Sauveur, Harry, Berlin, Germany. Releasable drill holder. 1,711,427; Apr. 30.
- Sauveur, Harry, Berlin, Germany. Submerged lifting pump for deep wells. 1,714,440; May 21.



- Sauveur, Harry, Lankwitz, Berlin, assignors to Flex-O-Industrie-Gesellschaft m. b. H., Berlin, Germany. Spindle-releasing device for drilling machines. 1,701,423; Feb. 5.
- Sauzède, Claude, Detroit, Mich. Brake drum. 1,727,486; Sept. 10.
- Savage Arms Corporation. (See Ebeling, W. B., and Briggs, assignors.)
- Savage Arms Corporation. (See Russell, Frederick T., assignor.)
- Savage, Arthur C., Erie, Pa., assignor to General Electric Company. Electric-train-line coupling. 1,739,421; Dec. 10.
- Savage, Basil H., assignor of two-sixteenths to H. B. Newcomb, four-sixteenths to N. B. Bennett, and one-sixteenth to O. F. Bowman, Los Angeles, Calif. Vacuum fuel-feed apparatus. 1,702,273; Feb. 19.
- Savage Bros Co. (See Woolf, Frank H., assignor.)
- Savage-De Remer Corporation. (See De Remer, Jay G., assignor.)
- Savage, Harry B., assignor to The Norwalk Tire and Rubber Company, Norwalk, Conn. Tire. Des. 78,537; May 14.
- Savage, John C., New York, N. Y. Producing colored smoke clouds. 1,716,797; June 11.
- Savage, John L., Denver, Colo. Method and apparatus for grouting concrete structures. 1,726,414; Aug. 27.
- Savage, Llewellyn T., Boston, assignor to J. M. Keyes and L. H. Keyes, Concord, Mass. Outboard engine bracket. 1,704,303; Mar. 5.
- Savage, Roy R., Abilene, assignor of one-third to R. D. Suddath, Henrietta, Tex. Vehicle seat. 1,729,687; Oct. 1.
- Savage, Samuel H., North Bergen, N. J. Tire-rim-contracting device. 1,700,719; Jan. 29.
- Savage, Seward M., Chicago, Ill., assignor to Bradley Transportation Company, Rogers City, Mich. Underwater construction. 1,716,189; June 4.
- Savage, Seward M., Chicago, Ill., assignor to Bradley Transportation Company, Rogers City, Mich. Underwater construction. 1,716,190; June 4.
- Savage, William H., Fitchburg, assignor to S. W. Dodge, Leominster, Mass. Vase. Des. 78,365; Apr. 23.
- Savelsberg, Josef, Papenburg-on-the-Ems, assignor to C. Schlesinger & Trier Kommanditgesellschaft auf Aktien, Berlin, Germany. Producing metals. 1,723,444; Aug. 6.
- Saviano, Nicola F., Brooklyn, assignor to C. C. Orcutt, New York, N. Y. Bottle filling and corking machine. 1,710,074; Apr. 23.
- Savidge, Albert C., Indianapolis, Ind. Valve-facing tool. 1,707,670; Apr. 2.
- Savini, William, Chicago, Ill. Truck hoist. 1,727,942; Sept. 10.
- Savio, Victor, Washington, D. C. Fountain pen. 1,718,709; June 25.
- Savio, Victor, Washington, D. C. Fountain pen. 1,718,710; June 25.
- Savitt, Benjamin M., Minneapolis, Minn. Preparing and dry cleaning articles. 1,740,271; Dec. 17.
- Savonius, Sigurd J., Helsingfors, Finland. Rotor adapted to be driven by wind or flowing water. 1,697,574; Jan. 1.
- Savory, George W. (See Laesch, Fred W., assignor.)
- Savoy, Albert, North Attleboro, Mass. Locking device for motor vehicles. 1,705,314; Mar. 12.
- Savrida, Charles M., Bayshore, assignor to Autoshift Corporation, New York, N. Y. Automatic gear-shifting mechanism. 1,739,471; Dec. 10.
- Sawers, Thomas C., and H. J. Blair, Brooklyn, N. Y. Separable electrical connection. 1,702,135; Feb. 12.
- Sawers, Thomas, and W. E. Evans, jr., Brooklyn, N. Y. Amusement apparatus. 1,702,136; Feb. 12.
- Sawicki, Adam, Detroit, Mich. Fowl decapitator. 1,729,845; Oct. 1.
- Sawin, Arthur J., Anthon, Iowa. Clover thrasher. 1,716,837; June 11.
- Sawin, Arthur J., Anthon, Iowa. Clover harvester. 1,730,690; Oct. 8.
- Sawin, Kenneth A., Winthrop, assignor to Wheeler Reflector Company, Boston, Mass. Canopy for electric-light fixtures. 1,733,277; Oct. 29.
- Sawin, Lester M., Chicago, Ill. Merchandise-displaying device. 1,711,286; Apr. 30.
- Sawtell, Richard D., Atlanta, Ga., assignor to J. W. Anderson, New York, N. Y. Workman's time recorder. 1,738,928; Dec. 10.
- Sawtelle, Charles A., assignor to Perfection Engineering Company, Detroit, Mich. Vehicle brake. 1,712,172; May 7.
- Sawtelle, Charles A., assignor to Perfection Engineering Company, Detroit, Mich. Brake. 1,724,148; Aug. 13.
- Sawtelle, Charles A., assignor to Perfection Engineering Company, Detroit, Mich. Vehicle brake. 1,725,885; Aug. 27.
- Sawtelle, Charles A., assignor to International Air Brake Company, Detroit, Mich. Control valve for fluid brakes. 1,727,943; Sept. 10.
- Sawyer, Charlie F. (See West, S. I., and Sawyer.)
- Sawyer, Emerson D., Chicago, Ill. Yieldable barrier. 1,699,545; Jan. 22.
- Sawyer, Emerson D., Chicago, Ill. Yieldable barrier. 1,700,141; Jan. 29.
- Sawyer, Emerson D., Chicago, Ill. Yieldable barrier. 1,719,196; July 2.
- Sawyer, Emerson D., assignor of one-half to P. H. Bonfield, Chicago, Ill. Signaling device for vehicles. 1,717,629; June 18.
- Sawyer, Harold L. (See Tibbetts, C. B., and Sawyer.)
- Sawyer, Henry A., administrator. (See Hancock, Harry H.)
- Sawyer, Houghton, Piedmont, Calif. Observation opening for doors. 1,701,987; Feb. 12.
- Sawyer, Lester T., Fitchburg, Mass. Hat-tree. Des. 77,371; Jan. 1.
- Sawyer, Philip A. (See Peer, R. W., and Sawyer.)
- Sax, Laurence, Los Angeles, Calif., assignor to Penn Leather Company, Philadelphia, Pa. Tap. 1,708,802; Apr. 9.
- Saxe, Howard A., Erie, Pa. Duplicating machine. 1,729,749; Oct. 1.
- Saxer, Theodor, Rorschach, Switzerland. Massage apparatus. 1,728,368; Sept. 17.
- Saxton, Frank S., Blissfield, Mich. Clothes hanger. 1,726,316; Aug. 27.
- Saxton, Lionel D., New York, N. Y. Comb. 1,738,732; Dec. 10.
- Sayers, George, Drexel Hill, Pa. Shelf for house radiators. 1,739,263; Dec. 10.
- Sayers & Scovill Company, The. (See Hess, Emil E., assignor.)
- Sayers, W. P., et al. (See Motron, Frank M., assignor.)
- Sayers, William W., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Traveling back anchor for power hoes. 1,734,882; Nov. 5.
- Sayers, William W., and A. Eilersgaard, assignors to Link-Belt Company, Chicago, Ill. Reducing clearance width of crawler cranes. 1,731,911; Oct. 15.
- Saylor, Galen H., assignor to Dennison Manufacturing Company, Framingham, Mass. Making fast-colored crepe paper and resulting product. 1,732,540; Oct. 22.
- Saylor, Arthur F., Dover, N. H. Electric-lamp guard. 1,703,599; Feb. 26.
- Saylor, Howard D., Newark, assignor to Driver-Harris Company, Harrison, N. J. Insulated conductors. 1,713,716; May 21.
- Sayre, Charles E., Laurel, Mont. Ground packer. 1,738,731; Dec. 10.
- Sayre, Charles H., Elmira, N. Y. Wear-compensating bearing. 1,712,310; May 7.
- Sayre, Ralph E., Mount Vernon, assignor to Metals Recovery Company, New York, N. Y. Concentration of ores by froth flotation. 1,697,614; Jan. 1.
- Sborigi, Leonard. (See Cornell, Charles J., assignor.)
- Sea-Lax Laboratories, Inc. (See Smiley, Robert R., assignor.)
- Scale Solvent & Products Company. (See Coughlin, John M., assignor.)
- Scales, Eugene, Columbus, Ohio. Making a washing liquid. 1,728,082; Sept. 10.
- Scammell China Company. (See Schnepf, Emil L., assignor.)
- Scammell Lorries Limited. (See North, Oliver D., assignor.)
- Scanes, Arthur E. L., Strathfield, England, assignor to Associated Electrical Industries Limited. Superheterodyne signaling system. 1,732,698; Oct. 22.
- Scanlan, Chester J., Bloomington, Ill. Electric water heater. 1,707,322; Apr. 2.
- Scanlan, Dennis R., New York, N. Y. Game. 1,719,239; July 2.
- Scanlan, Dennis R., New York, N. Y. Golf game. 1,719,240; July 2.
- Scanlan, Dennis R., New York, N. Y. Game. 1,738,265; Dec. 3.
- Scantlebury, Francis H., Brooklyn, N. Y. Illuminated sign. 1,707,965; Apr. 2.
- Scantlin, William J., assignor of forty per cent to J. Dickinson, Pratt, Kans. Opening and closing device for box-car doors. 1,714,632; May 28.
- Scapborough, George G., Girdlefree, Md. Heating stove. 1,724,683; Aug. 13.
- Scarborough, John A., J. B. Caldwell, and F. Coursey, Paris, Tex. Piston. 1,741,659; Dec. 31.
- Scarborough, Arthur P., and C. M. Holt, Hanford, Calif. Earth-working attachment. 1,709,408; Apr. 16.
- Scarlett, Arthur A., Canton, Ill., assignor to International Harvester Company. Plow. 1,718,762; June 25.
- Scarlett, George B., assignor to The Glacier Corporation, Kennett Square, Pa. Insulating wrapper. 1,741,377; Dec. 31.
- Scarlett, Robert W., Philadelphia, Pa. Iceless shipper. 1,714,633; May 28.
- Scarlett, Robert W., Philadelphia, Pa. Heat-insulated container. 1,714,634; May 28.
- Scarpel, Tony. (See Hasalone, Amalia, assignor.)
- Scarritt, Winthrop T., assignor to Pratt Chuck Company, Utica, N. Y. Engine muffler. 1,741,078; Dec. 24.
- Schaaf, John, et al. (See D'Olier, William L., assignor.)
- Schaaf, John, Buffalo, N. Y. Garbage reduction and rubbish crematory. 1,698,454; Jan. 8.
- Schaaf, Norman V. (See Schwier, W. C., and Schaaf.)
- Schaaf, Richard A., Scranton, Pa. Automobile axle-straightening device. 1,700,748; Feb. 5.
- Schaaf, William L., Mount Vernon, N. Y. Suppository. 1,737,949; Dec. 3.
- Schaaff, John T., Washington, D. C., assignor to The Tabulating Machine Company, New York, N. Y. Striping device. 1,713,007; May 14.



- Schaahe, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Guard for trolley conductors and hangers. 1,729,900; Oct. 1.
- Schaahe, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley system. 1,731,940; Oct. 15.
- Schaahe, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Conductor support. 1,735,131; Nov. 12.
- Schaal, Geo. A. (See Runnels, Paul P., assignor.)
- Schaal, Norbert J. (See Laxo, E., and Schaal.)
- Schachat, Abraham B., New York, assignor to N. Statham, Irvington-on-Hudson, N. Y. Flexible fastening device. 1,731,638; Oct. 15.
- Schacht, Elmer C., assignor to Behr-Manning Corporation, Troy, N. Y. Abrading device. 1,736,056; Nov. 19.
- Schacht, William A. (See Jacobson, Moses, assignor.)
- Schachtel, Otto, Chicago, Ill. Bending machine. 1,737,097; Nov. 26.
- Schachtmeyer, Norbert, Berlin, and W. de Vries, Berlin-Charlottenburg, Germany, assignors to Westinghouse Electric & Manufacturing Company. Regulator system. 1,709,687; Apr. 16.
- Schad, Adolf R., Cleburne, Tex. Aeronautical apparatus. 1,728,806; Sept. 17.
- Schad, Frank M., New York, N. Y. Extracting mercury from cinnabar ore. 1,718,491; June 25.
- Schad, Konrad. (See Osswald, P., and Schad.)
- Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Card system. 1,703,119; Feb. 26.
- Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Book back for loose-leaf books. 1,709,955; Apr. 23.
- Schade, John, assignor to The National Blank Book Co., Holyoke, Mass. Loose-leaf book. 1,720,242; July 9.
- Schadewald, Anna E. (See Christie, Frederick, assignor.)
- Schadewald Mills. (See Christie, Frederick.)
- Schaefer, Alfons, Brooklyn, N. Y. Airship. 1,706,080; Mar. 19.
- Schaefer, August A., et al. (See Dudenhofen, Jacob, assignor.)
- Schaefer, Clarence H. (See Koncana, F. E., and Schaefer.)
- Schaefer, Frank, assignor of one-half to American Signs Corporation, Kalamazoo, Mich. Gas-purifying trap and restoring same. 1,714,245; May 21.
- Schaefer, Frank, assignor of one-half to American Signs Corporation, Kalamazoo, Mich. Gaseous electric discharge lamp. 1,739,561; Dec. 17.
- Schaefer, Frederic, Pittsburgh, Pa. Brake-hanger support. 1,739,990; Dec. 17.
- Schaefer, Frederic, Pittsburgh, and W. A. Kern, Ellwood City, Pa.; said Kern assignor to said Schaefer. Manufacturing closed-link brake hangers. 1,716,933; June 11.
- Schaefer, Frederick. (See Mason, Frank N., assignor.)
- Schaefer, George W., South Braintree, Mass., assignor to Addressograph Company, Chicago, Ill. Index tab. 1,735,214; Nov. 12.
- Schaefer, Hanns, Essen-on-the-Ruhr, Germany, assignor to the firm N. V. Montania, The Hague, Netherlands. Construction of galleries and tunnels for mines and the like. 1,740,961; Dec. 24.
- Schaefer, Henry, Brooklyn, N. Y. Cooking vessel. 1,697,930; Jan. 8.
- Schaefer, John E., Buffalo, Minn. Automobile top. Des. 77,790; Feb. 19.
- Schaefer, Joseph J., Jr., Niagara Falls, N. Y., assignor to Niacet Chemicals Corporation. Textile lubricant and process. Re17,264; Apr. 9.
- Schaefer, Wilhelm, Berlin-Wilmersdorf, Germany. Document file. 1,710,193; Apr. 23.
- Schaefer, William D., Milwaukee, Wis. Propelling air or water craft. 1,708,803; Apr. 9.
- Schaefer, William H., Great Neck, and G. Eckert, Bronx, N. Y. Clip or fastener. 1,741,039; Dec. 24.
- Schaeffer, Charles, assignor to Société Anonyme des Anciens Etablissements Panhard & Levasson, Paris, France. Motor with sleeve valve. 1,718,082; June 18.
- Schaeffer, Dorman, Helena, Mont. Riding toy. Re17,414; Aug. 20.
- Schaeffer, Georges. (See Kahn, M., LeBreton, and Schaeffer.)
- Schaeffer, Jacob H., Brooklyn, N. Y. Ring. Des. 79,259; Aug. 20.
- Schnor, Charles, Langenthal, assignor to the firm Sulzer Freres Societe Anonyme, Winterthur, Switzerland. High-pressure piston or reciprocating compressor or the like. 1,718,307; June 25.
- Schiffer, Andreas, Auenheim, near Cologne, Germany. Veterinary appliance. 1,714,635; May 28.
- Schiffer, Jean, Paris, France. Separating and purifying apparatus for liquids. 1,711,428; Apr. 30.
- Schafer, John C. F., Mount Pulaski, Ill. Combination spout and sprinkler head for watering pots. 1,702,523; Feb. 19.
- Schafer, John V., assignor to H. A. Douglas, Bronson, Mich. Electric switch. 1,717,940; June 18.
- Schäfer, Josef, assignor to J. R. Geigy, S. A., Basel, Switzerland. Manufacture of synthetic tanning material free from mineral acid. 1,706,325; Mar. 19.
- Schafer, Robert A. (See Galloway, R. M., and Schafer.)
- Schaff, George M., Cleveland, Ohio. Combined arch support and heel cushion. 1,717,122; June 11.
- Schaffer, Henry, Chicago, Ill. Game. 1,707,323; Apr. 2.
- Schaffer, Henry J., assignor to J. Schaffer, Brooklyn, N. Y. Container. 1,721,260; July 16.
- Schaffer, Herman, Washington, Pa., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Salt or pepper shaker. Des. 79,340; Sept. 3.
- Schaffer, Jacob. (See Schaffer, Henry J., assignor.)
- Schaffer, Jacob, New York, N. Y., assignor to Star Chandelier Co., Inc. Lighting fixture. 1,729,730; Oct. 1.
- Schaffer, John C. (See Crow, W., and Schaffer.)
- Schaffer, Max, Co. (See Krause, Arthur R., assignor.)
- Schaffer Poldimeter Company. (See Crow, W., and Schaffer, assignors.)
- Schaffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Amplifier. 1,697,207; Jan. 1.
- Schaffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Thionic-tube transmitter. 1,697,208; Jan. 1.
- Schäffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Amplifier. 1,717,630; June 18.
- Schaffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Oscillator generator. 1,719,521; July 2.
- Schaffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Circuit arrangement for telephonic communication. 1,730,017; Oct. 1.
- Schäffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for audio frequency amplification. 1,732,031; Oct. 15.
- Schaffer, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radioreceiver. 1,735,185; Nov. 12.
- Schäffer, Werner, Laupen, near Bern, assignor, by mesne assignments, to Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland. Making type bars. 1,700,599; Jan. 29.
- Schäffer, Werner, Laupen, near Bern, assignor to Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland. Keyboard for typewriting machines, typesetting machines, or the like. 1,742,152; Dec. 31.
- Schaffert, Adolf H., assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y. File folder. 1,738,120; Dec. 3.
- Schaffler, Oscar, Detroit, Mich. Electric-wire insulator. 1,706,987; Mar. 26.
- Schaffler, rekte Glössl, Konrad, Vienna, Austria. Electric incandescent igniter. 1,736,398; Nov. 19.
- Schaffner, Theophilus C., Chicago, Ill. Chart for drafting patterns. 1,702,090; Feb. 12.
- Schaffner, Walter, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electromagnetic contact apparatus. 1,714,571; May 28.
- Schafnan, Isaac, assignor of one-third to A. J. Dunkle, New York, N. Y. Elevator for liquids. 1,714,821; May 28.
- Schalch, Jacques, and J. W. Olson, assignors to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Esterifying aldehydes. 1,708,902; Apr. 9.
- Schalkau, Artur, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Hollow rope conductor for overhead transmission lines. 1,723,812; Aug. 6.
- Schalckenbach, Frank, New York, N. Y. Storm-simulating device. 1,734,446; Nov. 5.
- Schall, Allen B., Saginaw, assignor to Wilcox-Rich Corporation, Detroit, Mich. Chill plate for use in molding tappet heads. 1,727,565; Sept. 10.
- Schall, Josef. (See Bayha, W. G., Hellerman, and Schall.)
- Schallis, Charles A., Pequannock, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Electric toaster. Des. 78,717; June 11.
- Schallis, Charles A., Pequannock, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Coffee urn or similar article. Des. 78,718; June 11.
- Schander, Paul, Elkins Park, assignor to Fletcher Works, Philadelphia, Pa. Laundry rack. 1,718,881; June 25.
- Schane, Edward H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Chamfering attachment for chaplet-making machines. 1,731,441; Oct. 15.
- Schang, Daniel. (See Gerlach, Alexander, assignor.)
- Schantz, Edwin M., Chicago, Ill. Telephone pay station. 1,723,081; Aug. 6.
- Schantz, Gordon M., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Mounting for bus bodies. 1,737,177; Nov. 26.
- Schanz, Daniel. (See Gerlach, Alexander, assignor.)
- Schaper, Harry C., St. Louis, Mo., assignor, by mesne assignments, to Schaper Scale Company. Even balance scale. 1,703,406; Feb. 26.
- Schaper Scale Company. (See Schaper, Harry C., assignor.)
- Schaper, William E. (See Morris, George A., assignor.)
- Schaperjahn, Herman, Closter, N. J. Fuel saver or economizer. 1,713,400; May 14.
- Schardein, Clarence E., Louisville, Ky. Faucet. 1,739,864; Dec. 17.
- Scharf Bros. Co. (See Scharf, Lou, assignor.)
- Scharf, Hans, Berlin, Germany, assignor, by mesne assignments, to Brandes Products Corporation, Newark, N. J. Sound reproducer. Re17,533; Dec. 17.
- Scharf, Joachim B., and M. Roth, Chicago, Ill. Battery-terminal clamp. 1,727,219; Sept. 3.



- Scharf, Lou, Sea Cliff, assignor to Scharf Bros. Co., Inc., New York, N. Y. Candy unit. Des. 77,708; Feb. 12.
- Scharf, Michael M., Lancaster, Pa. Sewing machine. 1,719,785; July 2.
- Scharf, Michael M., New York, N. Y. Sewing machine. 1,727,908; Sept. 10.
- Scharff, Adrian C., East Haven, assignor to The G and O Manufacturing Company, New Haven, Conn. Ash receiver. Des. 77,985; Mar. 12.
- Scharff, Adrian C., East Haven, assignor to The G and O Manufacturing Company, New Haven, Conn. Smoker's stand. Des. 79,442; Sept. 17.
- Schario, Augustus L. (See Schario, William J. and A. L.)
- Schario, William J., Fergus, and A. L. Schario, Hamilton, Ontario, Canada. Bagging device. 1,727,448; Sept. 10.
- Scharling, Henry E., Nutley, N. J. Picture frame. 1,714,138; May 21.
- Scharnagel, Herman, Tompkinsville, assignor to H. W. Dyer, New York, N. Y. Refrigerating apparatus. 1,717,895; June 18.
- Scharowsky, Günther, Berlin-Nikolassee, Germany, assignor to Westinghouse Electric & Manufacturing Company. Frequency converter. 1,702,452; Feb. 19.
- Scharpenberg, Ewald, Wetter-on-the-Ruhr, Germany. Pipe clip. 1,736,630; Nov. 19.
- Scharrer, Carl H., Dayton, Ohio. Fishing lure. 1,738,617; Dec. 10.
- Scharschmidt, Virginia, New York, N. Y. Safety window-cleaning device. 1,708,594; Apr. 9.
- Schartow, Frank E., Racine, Wis. Combined breast strap and martingale connection. 1,721,167; July 16.
- Schassberger, Norman A., assignor to Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich. Windshield regulator. 1,730,787; Oct. 8.
- Schat, Ane P., Utrecht, Netherlands. Self-contained automatic tackle. 1,714,452; May 21.
- Schatz, Herman A. (See Smith, William F., assignor.)
- Schatz, Herman W., and S. M. Ratliff, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Radial drilling machine. 1,706,824; Mar. 26.
- Schau, Arthur, Valparaiso, Ind. Replaceable clinker hook. 1,741,587; Dec. 31.
- Schau, Harvey C., assignor to Dunkley Company, Kalamazoo, Mich. Cherry-pitting machine. 1,726,719; Sept. 3.
- Schaub, Eugene J., Maspeth, N. Y. Two-flame arc lamp. 1,704,904; Mar. 12.
- Schaub, James B., Wilmette, assignor to T. W. Snow Construction Co., Chicago, Ill. Material-moving apparatus. 1,738,211; Dec. 3.
- Schaub, Oscar. (See de Courten, O., and Schaub.)
- Schauder, Joseph, Brooklyn, N. Y. Reflector sign. 1,732,068; Oct. 15.
- Schaum, Carl. (See Schaum, Fletcher and C.)
- Schaum, Carl, assignor to Fletcher Works, Incorporated, Philadelphia, Pa. Unloader or plow for centrifugals. 1,701,731; Feb. 12.
- Schaum, Fletcher, Philadelphia, Pa. Thermostat. 1,724,425; Aug. 13.
- Schaum, Fletcher, Philadelphia, and C. Schaum, Wyncote, assignors to Fletcher Works, Philadelphia, Pa. Liquid dispenser. 1,703,753; Feb. 26.
- Schauman, Bror M., New York, N. Y., assignor, by mesne assignments, to Automatic Car Stop Corporation. Vehicle brake-operating means. 1,711,695; May 7.
- Schauman, Bror M., Atlantic Highlands, and J. F. Milligan, Ridgefield Park, N. J., assignors, by mesne assignments, to Automatic Car Stop Corporation. Automatic control means for motor vehicles. 1,721,605; July 23.
- Schaumburger, Max M., et al., trustee. (See Smith, Blanchard D., assignor.)
- Schauss, Adolf F., Oberursel, near Frankfurt-on-the-Main, Germany. Typewriting machine. 1,705,421; Mar. 12.
- Schecker, Henry F., Brooklyn, N. Y., assignor to Aerovox Wireless Corporation. Electrical condenser and making the same. 1,736,764; Nov. 19.
- Scheckler, Gordon F., assignor of one-half to R. C. Zuckerman, Stockton, Calif. Driving mechanism for soil pulverizers. 1,704,263; Mar. 5.
- Scheer, John H., Troy, Mo. Steering-wheel lock. 1,730,166; Oct. 1.
- Scheerer, William, Verona, N. J. Bill fold. 1,707,025; Mar. 26.
- Scheffer, William F. (See McKee, R. J., and Scheffer.)
- Scheffer, William F., assignor to Chicago Manufacturing & Distributing Company, Chicago, Ill. Truck and bag holder. 1,713,095; May 14.
- Scheibe, Adolf. (See Giebe, E., and Scheibe.)
- Scheibli, John A., Jackson Heights, N. Y. Silk-reeling apparatus. 1,734,305; Nov. 5.
- Scheibli, Robert J., Jr., St. Louis, Mo., assignor to American Car and Foundry Company, New York, N. Y. Brake-rod-jaw connection. 1,699,546; Jan. 22.
- Scheid, Henry J., et al., trustees. (See Scheid, Henry J., assignor.)
- Scheid, Henry J., assignor to J. R. Beyrer, F. R. Davis, J. W. Baird, G. M. Stephenson, and H. J. Scheid, trustees, South Bend, Ind. Nonmetallic resilient fender for auto vehicles. 1,699,572; Jan. 22.
- Scheid, Richard, St. Louis, Mo. Heater conserving plate. 1,732,569; Oct. 22.
- Scheidacker, Hans T., Brooklyn, assignor to Hudson Brass Works, Inc., New York, N. Y. Arm for bridge lamps. Des. 77,436; Jan. 8.
- Scheidacker, Hans T., assignor to Hudson Brass Works, Inc., Brooklyn, N. Y. Arm for bridge lamps. Des. 77,652; Feb. 5.
- Scheidacker, Hans T., assignor to Hudson Brass Works, Inc., Brooklyn, N. Y. Arm for bridge lamps. Des. 77,653; Feb. 5.
- Scheideman, Henry A., Edgewater, assignor of one-half to The McMurtry Manufacturing Company, Denver, Colo. Glass-grooving machine. 1,742,101; Dec. 31.
- Scheif, Charles A., Pittsburgh, Pa. Window-shade pull. 1,715,009; May 28.
- Schein, Alexander E., Flushing, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Thrust bearing. 1,700,856; Feb. 5.
- Schein, Alexander E., New York, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Thrust bearing. 1,734,273; Nov. 5.
- Scheinfeld, Morris, assignor of one-half to J. Friedman, Philadelphia, Pa. Safety device for elevators. 1,730,747; Oct. 8.
- Schekall, John J., and G. R. Thornton, Colorado Springs, Colo. Hydraulic gear and wheel puller. 1,721,189; July 16.
- Schell, Charles, assignor to Schell Leather Goods Company, Cincinnati, Ohio. Brief case. Des. 78,901; July 2.
- Schell, Charles F., assignor of one-third to G. Schell and one-third to R. W. Schell, Buffalo, N. Y. Checking indicator for railway cars. 1,712,586; May 14.
- Schell, George, et al. (See Schell, Charles F., assignor.)
- Schell, John E., Jr., Frederick, Md. Closure fastener. 1,719,312; July 2.
- Schell Leather Goods Company. (See Schell, Charles, assignor.)
- Schell, Robert W., et al. (See Schell, Charles F., assignor.)
- Schellberg, Oscar B., New York, N. Y. Colonic-exploration apparatus. 1,704,764; Mar. 12.
- Schellberg, Oscar B., New York, N. Y. Proctotherapy apparatus. 1,713,717; May 21.
- Schellenbach, William L., Wyoming, assignor to The American Tool Works Company, Cincinnati, Ohio. Lathe mechanism. 1,701,275; Feb. 5.
- Schelleng, John C., East Orange, assignor to Western Electric Company, Incorporated, New York, N. Y. Space-discharge system. 1,722,987; July 30.
- Schelleng, John C., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Regulator for rectifiers. 1,724,968; Aug. 20.
- Schelleng, John C., Millburn, assignor to Western Electric Company, Incorporated, New York, N. Y. Rectifier system. 1,738,266; Dec. 3.
- Schellenger, Newton C., assignor to Chicago Telephone Supply Co., Elkhart, Ind. Tubular jack. 1,699,678; Jan. 22.
- Schellenger, Newton C., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Telephone receiver. 1,700,954; Feb. 5.
- Schellens, C. A., Marblehead, Mass., and J. S. Coffin, Jr., Lisbon, N. H., assignors, by mesne assignments, to C-S Engineering Company. Locomotive draft device. 1,722,060; July 23.
- Schellens, Christopher A., Marblehead, Mass., assignor to C. S. Engineering Company, Jersey City, N. J. Pump unit. 1,723,661; Aug. 6.
- Schellens, Christopher A., Marblehead, Mass., assignor, by mesne assignments, to C-S Engineering Company. Pump-control device. 1,725,732; Aug. 20.
- Schellens, Eugene L., Pointe Claire, Quebec, Canada, and J. S. Coffin, Jr., Lisbon, N. H., assignors to C-S Engineering Company. Locomotive. 1,710,244; Apr. 23.
- Schellentrager, Eugene W., Shaker Heights, Ohio. Container-vibrating means and method. 1,705,502; Mar. 19.
- Schellentrager, Eugene W., assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. Bin-gate-operating cylinder. 1,731,271; Oct. 15.
- Schellentrager, Eugene W., Cleveland Heights, and H. J. Kidd, assignors to The Atlas Bolt & Screw Company, Cleveland, Ohio. Clay carrier. 1,700,711; Jan. 29.
- Scheller, Emil, Lorschach in Taunus, assignor to Deutsche Gold & Silber Scheideanstalt, vormals Roessler, Frankfurt-on-the-Main, Germany. Aromatizing organic compounds. 1,704,106; Mar. 5.
- Scheller, Emil F., Lorschach in Taunus, Germany. Manufacturing activated charcoal. 1,704,765; Mar. 12.
- Scheller, Otto, Berlin-Lichterfelde-West, Germany, assignor to C. Lorenz Aktiengesellschaft, Lorenzweg, Berlin-Tempelhof, Germany. Apparatus for the production of high-frequency oscillations by means of alternating current at low frequency. 1,712,121; May 7.
- Schellewald, Eduard, Dortmund, Germany. Joint for flanged steel beams. 1,724,519; Aug. 13.
- Schelter, George G., Rochester, N. Y., assignor to Fitz-Empire Double Plot Last Company, Auburn, Me. Last. 1,737,026; Nov. 26.
- Schem, Walter, Scranton, Pa., assignor of one-fourth to W. Brooke, Biloxi, Miss., and one-fourth to T. R. Barre, Columbus, Ohio. Animal training and racing apparatus. 1,723,576; Sept. 17.
- Scheminger, John, Jr., assignor to Aetna Automatic Oil Burner, Incorporated, Providence, R. I. Rotary oil or hydrocarbon burner. 1,707,774; Apr. 2.
- Scheminger, John, Jr., assignor to Aetna Automatic Oil Burners, Incorporated, Providence, R. I. Liquid-fuel-feeding apparatus. 1,716,932; June 11.



- Scheminger, John, jr., Providence, R. I., assignor, by mesne assignments, to Petroleum Heat and Power Company, New York, N. Y. Rotary gear pump. 1,719,025; July 2.
- Scheminger, John, jr., Providence, R. I., assignor to Aetna Automatic Oil Burner, Incorporated, New York, N. Y. Method and apparatus for feeding liquid fuel. 1,740,204; Dec. 17.
- Schemmel, Robert C., Union City, Ind. Shade roller. 1,700,082; Jan. 22.
- Schemmel, Robert C., Union City, Ind. Ornamental conductor for electric wires. 1,713,302; May 14.
- Schemmel, Robert C., Union City, Ind. Finishing welt. 1,719,729; July 2.
- Schemmel, Robert C., assignor, by mesne assignments, to The Backstay Welt Company, Union City, Ind. Spare-tire cover. 1,700,081; Jan. 22.
- Schenck, Charles, and L. Fine, Bethlehem, Pa., assignors to Bethlehem Steel Company. Metal-wheel production. 1,736,329; Nov. 19.
- Schenck, Christian K., New York, N. Y. Radio receiving circuit. 1,700,652; Jan. 29.
- Schenck, Clarence M. (See Waswo, C., and Schenck.)
- Schenck, Eugene A., Kansas City, Kans., assignor of one-half to D. E. Justus, Kansas City, Mo. Steam or hot-water boiler. 1,730,385; Oct. 8.
- Schenck, John F., sr., Lawndale, N. C. Hank-forming machine. 1,702,174; Feb. 12.
- Schenck, Samuel B., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,699,756; Jan. 22.
- Schenck, Samuel B., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,729,456; Sept. 24.
- Schenectady County Specialty Co. (See Derby, Augustus W., assignor.)
- Schéni, Michel, Paris, France. Knitting machine. 1,726,456; Aug. 27.
- Schenk, Eduard, assignor to Mosebach Electric & Supply Company, Pittsburgh, Pa. Fastening for rail bonds. 1,726,925; Sept. 3.
- Schenk, Herman, Briercrest, Saskatchewan, assignor of one-sixth to H. A. McIlwaine, one-sixth to W. H. Weddige, and one-sixth to Ed. P. Rae, Briercrest, Canada. Stooking attachment for binders. 1,720,006; July 9.
- Schenk, Tamis C., Detroit, Mich. Apparatus adapted for clamping together timbers, etc. 1,714,139; May 21.
- Schenken, Charles R., Washington, D. C. Book support. 1,737,178; Nov. 26.
- Schenker, Abraham W., Forest Hills, N. Y. Stop cock or valve. 1,739,991; Dec. 17.
- Schenker, Francis E., assignor to The Dowd-Rogers Co., Inc., Wallingford, Conn. Percolator. Des. 77,500; Jan. 15.
- Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Lighting fixture. Des. 79,763; Oct. 29.
- Scheppmann, Wilhelm, Berlin-Tempelhof, Germany. Electric picture transmission. 1,726,126; Aug. 27.
- Scheppmann, Wilhelm, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Oscillation circuit. 1,697,328; Jan. 1.
- Scher, Harry. (See Curlee, Jasper N., assignor.)
- Scherf, John G., and Z. F. Farmer, Andalusia, Ala. Garment. 1,704,952; Mar. 12.
- Scherf, Theodore. (See Shotton, J. C., and Scherf.)
- Scherfer, Jacob. (See Kane, I. L., and Scherfer.)
- Scherll, Henry, Richmond Hill, N. Y., assignor to Betts & Betts Corporation. Current limiter. 1,700,240; Jan. 29.
- Schering-Kahlbaum A. G. (See Heyn, Myron, assignor.)
- Schering-Kahlbaum A. G. (See Schoeller, W., Jordan, and Clerc, assignors.)
- Schering-Kahlbaum Aktiengesellschaft. (See Dohrn, M., and Dirksen, assignors.)
- Schering-Kahlbaum Aktiengesellschaft. (See Schoeller, W., and Zöllner, assignors.)
- Schering-Kahlbaum Aktiengesellschaft. (See Von Schickh, Otto, assignor.)
- Schermack, Joseph J., Jackson Heights, N. Y., assignor to Automatic Merchandising Corporation of America. Coin-selecting mechanism. 1,730,631; Oct. 8.
- Schermack, Joseph J., Detroit, Mich., assignor to Automatic Merchandising Corporation of America, New York, N. Y. Coin-control mechanism for dispensing machines. 1,731,352; Oct. 15.
- Schermer, Nathan H., and C. G. Heilman, Highland Park, Mich. Treating metallic bodies on one surface. 1,716,191; June 4.
- Schermerhorn, Edwards F., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Construction for insulated rail joints. 1,713,401; May 14.
- Schermuly, Joseph, Wichita, Kans. Combination harvester thrasher. 1,713,352; May 14.
- Schermuly, Joseph, Wichita, Kans. Lister. 1,741,794; Dec. 31.
- Scherotto, John J., Union City, N. J., assignor to Snyder & Black Incorporated, New York, N. Y. Collapsible display. 1,729,014; Sept. 24.
- Scherotto, John J., Union City, N. J., assignor to Snyder & Black, Incorporated, New York, N. Y. Display device. 1,737,733; Dec. 3.
- Scherr, Frederick, jr., Fajardo, P. R., assignor, by mesne assignments, to Farrel-Birmingham Company Incorporated, Ansonia, Conn. Attachment for milling scraper plates and the like. 1,713,981; May 21.
- Schertz, Adolph, Youngstown, Ohio. Aeroplane. 1,725,481; Aug. 20.
- Schertz, Adolph, Youngstown, Ohio. Propeller. 1,725,482; Aug. 20.
- Schestakoff, Peter I., Paris, France. Manufacture of petroleum-sulphonic acids and the salts thereof. 1,706,940; Mar. 26.
- Schetelig, Paul. (See Ackermann, F., and Schetelig.)
- Schettler, Gustav A., Bramley, Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Me. Measuring machine. 1,732,341; Oct. 22.
- Schettler, Gustav A., Bramley, England, assignor to The Turner Tanning Machinery Company, Portland, Me. Friction clutch. 1,741,438; Dec. 31.
- Scheu, William C., Los Angeles, assignor to Harrison, Paul, Scheu Co., Upland, Calif. Gas generator. 1,697,781; Jan. 1.
- Scheuermann, Angiolina, Tuckahoe, N. Y. Drainer and depository for dishes. 1,733,907; Oct. 29.
- Scheyer, Heinz. (See Kalischer, G., and Scheyer.)
- Scheyer, Heinz. (See Kalischer, G., Scheyer, and Keller.)
- Scheyer, Heinz, Frankfurt-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs of the anthracene series and making same. 1,709,956; Apr. 23.
- Schibbsy, Selma, Newport, Wash. Photographic-film roll. 1,710,075; Apr. 23.
- Schick, Harry C., Inc. (See Grassman, Edward C., assignor.)
- Schick, Harvey W., Oak Park, Ill. Reinforced-concrete stair platform and the like. 1,725,541; Aug. 20.
- Schick, Jacob, Stamford, Conn. Shaving implement. 1,721,530; July 23.
- Schick, Jacob, Stamford, Conn., assignor to Magazine Repeating Razor Company. Razor. 1,715,868; June 4.
- Schick, Jacob, Stamford, Conn., assignor to Magazine Repeating Razor Company. Safety razor. 1,730,167; Oct. 1.
- Schick, Jacob, Sound Beach, Conn., assignor to Magazine Repeating Razor Company. Safety razor. 1,724,969; Aug. 20.
- Schick, Jacob, Sound Beach, Conn., assignor to Magazine Repeating Razor Company. Safety razor. 1,724,970; Aug. 20.
- Schick, John L., Connellsville, Pa. Method and apparatus for mining coal. 1,712,471; May 7.
- Schickler, Albert C., assignor to E. E. Allyn, Cleveland, Ohio. Control mechanism for refrigerating systems. 1,734,349; Nov. 5.
- Schie, Arne. (See Andersen, A. C., and Schie.)
- Schiebeler, Carl, Berlin, Germany, assignor to General Electric Company. Automatic motor-control system. 1,719,855; July 9.
- Schieder, Karl, Nuremberg, Germany, assignor, by mesne assignments, to Standard Devices, Inc., New York, N. Y. Pocket cigar lighter. 1,717,941; June 18.
- Schieder, Karl, Nuremberg, Germany, assignor, by mesne assignments, to Standard Devices, Inc., New York, N. Y. Cigar lighter. 1,731,062; Oct. 8.
- Schiefer, Paul, San Diego, and R. W. Getty, National City, Calif. Combination school desk and chair. 1,736,135; Nov. 19.
- Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Power-transmitting means by oscillatory movements. 1,720,574; July 9.
- Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Pneumatic oscillating system and loosely-operative pneumatic couplings. 1,722,767; July 30.
- Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Oscillating system. 1,737,772; Dec. 3.
- Schieferwerke Ausdauer Aktiengesellschaft. (See Günzel, Richard, assignor.)
- Schieffer, Joseph W., New Canaan, Conn. Store front. 1,728,881; Sept. 17.
- Schier, Johann. (See Petschenig, K., and Schier.)
- Schierer, Anton, Hinsdale, Ill. Stove inclosure. 1,740,668; Dec. 24.
- Schieweck, Fritz, Huntingdon, Tenn. Harvester. 1,727,220; Sept. 3.
- Schiff, Albert I., New York, N. Y. Automatic clamp. 1,736,290; Nov. 19.
- Schiff, Henry T., Chicago, Ill. Desk lighter or similar article. Des. 77,861; Feb. 26.
- Schiff, Henry T., Chicago, Ill. Lighter for cigars, cigarettes, and the like. Des. 80,053; Dec. 3.
- Schiff, Henry T., assignor to Fay Manufacturing Co., Chicago, Ill. Automatic lighter or similar article. Des. 78,315; Apr. 16.
- Schiff, Martin. (See Roth, C. H., and Schiff.)
- Schiff, Nathan, Chicago, Ill. Window shade. 1,718,452; May 14.
- Schiff, Sigmund, Cincinnati, Ohio. Sifter. 1,701,126; Feb. 5.
- Schiffman, Robert P., Chicago, Ill. Children's amusement device. 1,730,168; Oct. 1.
- Schild, Charles A., Fort Wayne, Ind., assignor to General Electric Company. Centrifugal switch. 1,713,148; May 14.
- Schild & Co. (See Geisslinger, Jean, assignor.)
- Schildenfeld, Rudolf, Vienna, Austria. Scanner for picture transmission. 1,715,517; June 4.
- Schildknecht, Heinrich, Stuttgart, assignor, by mesne assignments, to Daimler-Benz Aktiengesellschaft, Berlin, Germany. Driving device for multi-axle motor vehicles. 1,698,026; Jan. 8.



- Schildman, Fred, Warsaw, Ill. Jacking attachment. 1,715,790; June 4.
- Schiller, Adolf, Berlin, Germany. Preserve jar and the like. 1,700,812; Feb. 5.
- Schiller, Joseph F., et al. (See Schiller, J. F., and Wescott, assignors.)
- Schiller, Joseph F., and W. W. Wescott, Philadelphia, Pa., assignors of two-thirds to said Schiller and one-third to said Wescott. Sterilizing air. 1,706,594; Mar. 26.
- Schiller, Joseph F., and W. W. Wescott, Philadelphia, Pa., assignors of two-thirds to said J. F. Schiller and one-third to said W. W. Wescott. Apparatus for sterilizing air. 1,736,839; Nov. 26.
- Schilling, August, and R. Sachse, San Francisco, D. Liamin, Los Angeles, and T. Callaert, San Francisco, Calif. Apparatus for producing oil gas. 1,710,900; Apr. 30.
- Schilling, August, R. Sachse, San Francisco, D. Liamin, Los Angeles, and Theofiel Callaert, San Francisco, Calif. Producing water gas and extracting oil from oil shale. 1,716,667; June 11.
- Schilling, August, San Francisco, R. Sachse, and D. Liamin, Los Angeles, and T. Callaert, San Francisco, Calif. Apparatus for extracting liquid hydrocarbons from oil shale. 1,721,836; July 23.
- Schilling, Donald C., Cleveland, Ohio, assignor to Trico Products Corporation, Buffalo, N. Y. Parking windshield cleaner. 1,730,827; Oct. 8.
- Schilling, Irwin E., et al. (See Rice, Howard E., assignor.)
- Schilling, Paul A., and P. F. Boeye, assignors to Waldorf Paper Products Company, St. Paul, Minn. Corrugated-board container. 1,697,479; Jan. 1.
- Schilling, Rudolph, Woodside, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Turbine blade. 1,708,402; Apr. 9.
- Schillinger, Adolph. (See Hodges, M. G., and Schillinger.)
- Schillinger, Adolph, Tulsa, Okla. Safety elevating hook. 1,729,188; Sept. 24.
- Schimalnek, Emil, assignor to the firm Hermes Magyar Általános Váltóüzlet Részvénytársaság, Budapest, Hungary. Carburetor. 1,714,441; May 21.
- Schimek, Joseph F., Worcester, assignor to Whitin Machine Works, Whitinsville, Mass. Tape condenser. 1,709,881; Apr. 23.
- Schimmel, Abraham A., Brookline, Mass. Cover for bed springs and the like. 1,732,663; Oct. 22.
- Schimmel, Fridolin, Fairbault, Minn. Combination end table and magazine rack. 1,725,423; Aug. 20.
- Schimmel, Fridolin, Fairbault, Minn. Holder for dipping devices. 1,725,424; Aug. 20.
- Schimmel, Fridolin, Fairbault, Minn. Finishing lathe. 1,733,208; Oct. 29.
- Schimpff, Eugene, Scranton, Pa. Headlight. 1,698,279; Jan. 8.
- Schindler, Samuel J., San Francisco, Calif. Roof flashing. 1,721,715; July 23.
- Schindler, Walter R., Los Angeles, Calif. Hot cap. 1,701,797; Feb. 12.
- Schindler, Walter R., Los Angeles, Calif. Device for placing hot caps over seeds and plants. 1,712,093; May 7.
- Schirmacher, Karl. (See Thiess, K., Müller, Schirmacher, and Zahn.)
- Schirmacher, Karl, and K. Renn, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparing isatins. 1,698,894; Jan. 15.
- Schirmacher, Karl, Höchst-on-the-Main, B. Stein, Elberfeld, and K. Stenger, Frankfurt-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Bis-aminoaryl anthrone and anthracene derivatives. 1,724,045; Aug. 13.
- Schirmacher, Karl, and L. van Zütphen, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Anthraquinone nitriles and making the same. 1,728,216; Sept. 17.
- Schirmacher, Karl, and K. Renn, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing a diazo compound from an amine of the aromatic series. 1,728,217; Sept. 17.
- Schiske, Rudolf, Vienna, Austria. Device for measuring the quantity of liquid or gaseous medium passing through the device in one unit of time. 1,699,163; Jan. 15.
- Schjolin, Erik O., assignor to Yellow Coach Manufacturing Company, Chicago, Ill. Air-brake system for vehicles. 1,707,742; Apr. 2.
- Schlacks, Henry J., Chicago, Ill. Window frame. 1,724,374; Aug. 13.
- Schlaefly, Julius H., Canton, Ohio. Machine for the manufacture of fluted columns. 1,714,108; May 21.
- Schlage Lock Co. (See Schlage, Walter R., assignor.)
- Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Escutcheon plate. Des. 79,260; Aug. 20.
- Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Escutcheon plate. Des. 79,261; Aug. 20.
- Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Escutcheon plate. Des. 79,262; Aug. 20.
- Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Split-bolt latch. 1,718,711; June 25.
- Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Door latch. 1,739,654; Dec. 17.
- Schlaich, Herman, Long Island City, N. Y. Indicating device. 1,704,488; Mar. 5.
- Schlaich, Herman, Long Island City, N. Y. Spark plug. 1,709,040; Apr. 16.
- Schlaich, Herman, Long Island City, N. Y. Winding device. 1,710,634; Apr. 23.
- Schlaich, Herman, Long Island City, N. Y. Spark plug. 1,714,521; May 28.
- Schlaich, Herman, Long Island City, N. Y. Spark plug. 1,714,522; May 28.
- Schlaich, Herman, Long Island City, N. Y. Bourdon tube. 1,714,988; May 28.
- Schlaich, Herman, Long Island City, N. Y. Making Bourdon tubes. 1,714,989; May 28.
- Schlaich, Herman, Long Island City, N. Y., assignor, by mesne assignments, to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. 1,699,313; Jan. 15.
- Schlaich, Herman, Long Island City, N. Y., assignor, by mesne assignments, to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. 1,730,691; Oct. 8.
- Schlaich, Herman, Long Island City, N. Y. Measuring instrument. 1,724,520; Aug. 13.
- Schlaich, Herman, Elmhurst, assignor to Moto Meter Company, Inc., Long Island City, N. Y. Retaining device for radiator caps. 1,711,287; Apr. 30.
- Schlaich, Herman, Brooklyn, assignor to The Boymoto Company, Inc., Long Island City, N. Y. Retaining device. 1,735,132; Nov. 12.
- Schlak, August, Brooklyn, N. Y., assignor to J. F. Meyer, Chicago, Ill. Amusement device. 1,720,060; July 9.
- Schlappitz, E. W. (See Eggli, Adolf, assignor.)
- Schlatter, Edward J., Brooklyn, N. Y. Electric connector. 1,716,326; June 4.
- Schlatter, Eugene R., Little Falls, N. J., assignor to Dip-It Inc., New York, N. Y. Dyestuff and coloring composition. 1,710,076; Apr. 23.
- Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Feeder for conical rolls and the like. 1,732,283; Oct. 22.
- Schlayer, Fred and W., New York, N. Y. Cap for containers. 1,726,966; Sept. 3.
- Schlayer, Walter. (See Schlayer, Fred and W.)
- Schlecht, Leo. (See Mittasch, A., Müller, Schlecht, and Schubardt.)
- Schlecht, Leo. (See Wietzel, R., Schlecht, and Köhler.)
- Schlecker, Karl, Berlin-Grünwald, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Producing joints in oil-filled cables with hollow conductors. 1,707,324; Apr. 2.
- Schledewitz, W. J., administrator. (See Amen, Fred W.)
- Schlegel, Ronald M., and A. H. Bowtzer, Jr., Los Angeles, Calif., assignors, by mesne assignments, to Kimball-Krogh Pump Company. Line-shaft-bearing-lubricating device. 1,739,803; Dec. 17.
- Schlehan, Hugo, Vienna, Austria. Belt fastener. 1,710,431; Apr. 23.
- Schleher, Charles F., Brooklyn, N. Y. Regulating valve for refrigerating machines. 1,716,355; June 4.
- Schleich, Nick, and C. J. Aldridge, assignors of one-third to J. J. Goergen, Great Falls, Mont. Electric-circuit closer. 1,717,467; June 18.
- Schleicher, Adolf B., Pasadena, Calif., assignor to The Standard Traffic Marker Company, Wichita, Kans. Traffic signal. 1,707,951; Apr. 2.
- Schleicher, Bernard, Hazelbrook, New South Wales, Australia. Fitting for pneumatic-tire valves. 1,698,455; Jan. 8.
- Schleicher, Edward G., Mount Vernon, N. Y. Landing gear. 1,705,210; Mar. 12.
- Schleicher, Frank J., University City, Mo. Paper box. Re17,133; Jan. 1.
- Schleicher, Frank J., University City, Mo. Paper box. Re17,328; June 18.
- Schleicher, Frank J., University City, Mo. Box. Des. 79,212; Aug. 13.
- Schleicher, Frank J., University City, Mo. Box. Des. 79,531; Oct. 1.
- Schleicher, Frank J., University City, Mo. Box. Des. 79,532; Oct. 1.
- Schleicher, Frank J., University City, Mo. Box. Des. 80,092; Dec. 10.
- Schleicher, Frank J., St. Louis, Mo. Box. 1,705,838; Mar. 19.
- Schleicher, Frank J., St. Louis, Mo. Box. 1,733,629; Oct. 29.
- Schleicher, Frank J., St. Louis, Mo. Box. 1,733,674; Oct. 29.
- Schleicher, Frank J., St. Louis, Mo. Box. 1,739,920; Dec. 17.
- Schleicher, Franz. (See Henglein, F. A., and Schleicher.)
- Schleicher, Frederick L., St. Louis, Mo. Machine for descaling boilers. 1,703,695; Feb. 26.
- Schleicher, Inc. (See Calcott, Walter C., assignor.)
- Schleicher, Inc. (See Schleicher, Paul E., assignor.)
- Schleicher, Inc. (See Schleicher, P. E., and Calcott, assignors.)
- Schleicher, Manfred. (See Moeller, M., Schleicher, and Kluge.)
- Schleicher, Manfred. (See von Voss, R., and Schleicher.)
- Schleicher, Manfred, Berlin-Charlottenburg, and H. Foleck, Berlin-Lichterfelde, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany. Apparatus for the control of a movable member. 1,706,968; Mar. 26.



- Schleicher, Paul E., Gary, Ind., assignor to Schleicher, Inc. Radiator-hood construction. 1,724,046; Aug. 13.
- Schleicher, Paul E., and W. C. Calcott, assignors to Schleicher, Inc., Gary, Ind. Radiator cover or similar article. Des. 78,127; Mar. 26.
- Schleifer, Carlo, Novara, Italy. Nip mechanism and controlling apparatus relating thereto in combers for textile fibres. 1,708,032; Apr. 9.
- Schleifer, Carlo, Novara, Italy. Machine for combing textile fibers with intermittently-rotating nip drums. 1,715,473; June 4.
- Schleiff, Karl, Berlin, Germany. Shock absorber, especially for motor vehicles. 1,717,855; June 18.
- Schleiffers, Ernest H. (See Candlish, W. A., and Schleiffers.)
- Schleinker, John, Rochester, N. Y. Indicating attachment for typewriters. 1,728,447; Sept. 17.
- Schlemper, Carl, Ohligs, Germany. Pile cutter for looms. 1,739,737; Dec. 17.
- Schlenker, Jacob L., Kulm, N. Dak. Boltless angle bar for railroad rails. 1,730,949; Oct. 8.
- Schlenker, Vesper A., Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,738,322; Dec. 3.
- Schlenstedt, Oswig, Mulheim-Ruhr-Speldorf, assignor to Hydraulik Gesellschaft mit beschränkter Haftung, Duisburg, Germany. Hydraulic press. 1,704,872; Mar. 12.
- Schler, John. (See Rothauszky, S., and Schler.)
- Schlesco-Shur Manufacturing Company. (See Schlesinger, Harry, assignor.)
- Schlesinger, Alfred, assignor to Berliner Maschinenbau-Aktiengesellschaft vormals L. Schwartzkopf, Berlin, Germany. Inking apparatus for printing machines. 1,717,737; June 18.
- Schlesinger, Alfred, and H. Lehnhoff, assignors to Berliner Maschinenbau-Aktiengesellschaft vormals L. Schwartzkopf, Berlin, Germany. Inking device for printing presses. 1,698,280; Jan. 8.
- Schlesinger, C., & Trier, Kommanditgesellschaft auf Aktien. (See Savelsberg, Josef, assignor.)
- Schlesinger, Harry, assignor to Schlesco-Shure Manufacturing Company, Des Moines, Iowa. Safety device. 1,720,694; July 16.
- Schlesinger, Harry, assignor to Schlesco-Shure Manufacturing Company, Des Moines, Iowa. Safety device for cleaning plants or the like. 1,729,493; Sept. 24.
- Schlesinger, Louis, and H. E. Heine, assignors to Bradley Washfountain Company, Milwaukee, Wis. Individual wash fountain. 1,729,189; Sept. 24.
- Schlesinger, Louis, and H. E. Heine, assignors to Bradley Washfountain Company, Milwaukee, Wis. Combination valve and swing spout. 1,737,734; Dec. 3.
- Schlesinger, Otto J., Chicago, Ill. Pipe-placing machine. 1,727,566; Sept. 10.
- Schletter & Zander, Inc. (See Schletter, Richard E., assignor.)
- Schletter, Richard E., assignor, by mesne assignments, to Schletter & Zander, Inc., Philadelphia, Pa. Attachment for flat-knitting machines. 1,713,628; May 21.
- Schley, George B., Indianapolis, Ind. Carburetor. 1,711,748; May 7.
- Schlicher, Arthur G., Allentown, Pa. Auto truck cover. 1,713,923; May 21.
- Schlichter, Oscar, assignor to Krauth & Benninghofen, Hamilton, Ohio, a firm. Paper feed for typewriters. 1,738,024; Dec. 3.
- Schlichter, Oscar, assignor to Krauth & Benninghofen, Hamilton, Ohio. Paper feed for typewriters. 1,740,438; Dec. 17.
- Schlichting, Otto. (See Schumann, C., Münch, Schlichting, and Christ.)
- Schlie, William, Chicago, Ill. Signal light. 1,727,522; Sept. 10.
- Schliedeker, Emil, assignor to the firm Bing-Werke vorm Gebr. Bing A. G., Nuremberg, Germany. Running toy figure. 1,739,614; Dec. 17.
- Schliephake, Otto. (See Gaus, W., Griessbach, and Schliephake.)
- Schlies, Frank J., jr., Manitowoc, Wis. Wire gate. 1,714,140; May 21.
- Schlitters, Michael J., Jr., assignor to Imerman Screw Products Company, Detroit, Mich. Cutting-off machine. 1,721,671; July 23.
- Schloss, Harry M. (See Luzzatti, E., and Schloss.)
- Schlossberg, John B., Terre Haute, Ind., assignor to American Chain Company, Inc. Puddling iron. 1,730,044; Oct. 1.
- Schlossberg, Morris, et al. (See Schlossberg, M., and Pasternack, assignors.)
- Schlossberg, Morris, and D. G. Pasternack, assignors of one-half to M. Schlossberg and M. Jacobson and one-half to D. G. and A. I. Pasternack, Philadelphia, Pa. Folding chair. 1,699,452; Jan. 15.
- Schlosser, Abraham. (See Risk, George A., assignor.)
- Schlösser, Gustav, Oberschoneweide, near Berlin, Germany. Method of and device for conveying building materials. 1,736,093; Nov. 19.
- Schlote, Guido F., Salt Lake City, Utah. Adjustable-jaw wrench. 1,739,182; Dec. 10.
- Schothan, James, Ketchikan, Alaska. Box-piling truck. 1,719,197; July 2.
- Schlotter, Max, Berlin, Germany. Inking mechanism for printing presses and the like. 1,707,995; Apr. 9.
- Schloz, Arthur H., Toledo, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio. Clutch mechanism. 1,702,548; Feb. 19.
- Schloz, Arthur H., and M. R. Hatch, assignors to The Toledo Machine & Tool Company, Toledo, Ohio. Clutch. 1,711,288; Apr. 30.
- Schlueter, Henry H., Canistota, S. Dak. Hinged clevis. 1,726,366; Aug. 27.
- Schlumberger, Conrad, Paris, France. Location of oil-bearing formation. 1,719,786; July 2.
- Schlumbohm, Peter, Berlin, Germany. Device for cooling. 1,700,813; Feb. 5.
- Schlumbohm, Peter, Berlin, Germany. Device for injecting liquid into a cavity of the human body. 1,731,729; Oct. 15.
- Schmalz, William F. (See Conner, B. F., and Schmalz.)
- Schmaus, Gustav, Prague Czechoslovakia. Liquid for accumulators. 1,722,343; July 30.
- Schmedlen, Henry E., Coldwater, Mich. Fishing pole. 1,740,908; Dec. 24.
- Schmelzer, Albert, F. Muth, Elberfeld, and E. Glietenberg, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New azo dye. 1,726,681; Sept. 3.
- Schmid, Albert, Boudry, Switzerland. Adjustable stool. 1,704,447; Mar. 5.
- Schmid, Carl G., assignor to Insley Manufacturing Company, Indianapolis, Ind. Headframe for mast hoists. 1,703,067; Feb. 19.
- Schmid, Carl G., assignor to Insley Manufacturing Company, Indianapolis, Ind. Mast hoist. 1,714,990; May 28.
- Schmid, Chlorita S., executrix. (See Schmid, E. E., and Schneider.)
- Schmid, Ernest E., deceased; C. S. Schmid, executrix, Hollis; and W. H. Schneider, Freeport, N. Y. Splice bar. 1,719,626; July 2.
- Schmid, Ernest E., deceased, by C. S. Schmid, executrix, Hollis; and W. H. Schneider, Freeport, N. Y. Insulator cap. 1,731,796; Oct. 15.
- Schmid, Ivan P., Leigh, Nebr. Hay loader. 1,718,383; June 25.
- Schmid, Johann C. (See Unglaub, F. O., and Schmid.)
- Schmid, Paul. (See Rüberg, F., and Schmid.)
- Schmid, Werner, White Plains, N. Y. Embroidered textile fabric. Des. 78,485; May 7.
- Schmid, William, assignor to Caskey-Dupree Manufacturing Company, Coldwater, Mich. Object-inclosing casing. 1,710,999; Apr. 30.
- Schmidlin, Fritz, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Apparatus for effecting a repeated closing of automatic switches. 1,707,236; Apr. 2.
- Schmidlin, Fritz, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Automatic substation control. 1,723,379; Aug. 6.
- Schmidlin, Robert, Höchst-on-the-Main, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Brown dyestuffs suitable for dyeing wool and leather and making same. 1,711,860; May 7.
- Schmidling, Joseph L., Milwaukee, Wis. Stock-feeding mechanism for automatic screw machines. 1,727,567; Sept. 10.
- Schmidt, Albert F. L., Webster Groves, Mo. Culinary measuring receptacle. 1,737,735; Dec. 3.
- Schmidt, Albert G., and A. L. Madenwald, assignors, by mesne assignments, to Consolidated Steel Corporation, Los Angeles, Calif. Automatic handling grapple. 1,733,084; Oct. 22.
- Schmidt, Albrecht, Frankfort-on-the-Main, G. Balle, Höchst-on-the-Main, and K. Franz, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing papers having a glossy surface. 1,703,961; Mar. 5.
- Schmidt, Alfred, Weehawken, N. J. Feeder for cup-shaped bodies. 1,739,422; Dec. 10.
- Schmidt, Alfred, Dusseldorf, Germany. Pipe bend. 1,740,524; Dec. 24.
- Schmidt, Arthur, New York, N. Y. Safety razor. 1,728,008; Sept. 10.
- Schmidt, Arthur, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Support for thermionic tubes. 1,735,133; Nov. 12.
- Schmidt, Arthur, Berlin-Halensee, Germany. Rapid stewing pot. 1,740,205; Dec. 17.
- Schmidt, Arthur A., and H. F. Kollé, Milwaukee, Wis. Container cover. 1,726,240; Aug. 27.
- Schmidt, August F., St. Petersburg, Fla. Sash fastener. 1,710,008; Apr. 23.
- Schmidt, August, jr., Schenectady, N. Y., assignor to General Electric Company. Thermionic apparatus. 1,717,265; June 11.
- Schmidt, Benjamin F., Los Angeles, Calif. Four-speed gear-shift mechanism for motor vehicles. 1,721,672; July 23.
- Schmidt, Benjamin F., Los Angeles, Calif. Gear-shift mechanism. 1,721,673; July 23.
- Schmidt, Benjamin F., Los Angeles, Calif. Gear-shift mechanism. 1,736,330; Nov. 19.
- Schmidt, Benjamin F., assignor of one-fourth to K. C. Gillette and one-fourth to K. G. Gillette, Los Angeles, Calif. Progressive and selective gear shift. 1,699,814; Jan. 22.



- Schmidt, Benjamin F., assignor to Gillette Schmidt Corporation, Los Angeles, Calif. Brake-operating mechanism. 1,718,258; June 25.
- Schmidt, Benjamin F., assignor of one-fourth to K. C. Gillette and one-fourth to K. G. Gillette, Los Angeles, Calif. Motor-driven oil-well pump. 1,736,094; Nov. 19.
- Schmidt, Benno, Siegm., and O. Hundt, Chemnitz, Germany. Thread-moistening apparatus. 1,730,950; Oct. 8.
- Schmidt, Carl A., Waterloo, and J. Westergaard, Reinbeck, Iowa. Combination locking means for reservoir bungs and faucets. 1,729,089; Sept. 24.
- Schmidt, Carlos A., Oakland, Calif. Vehicle signal casing. Des. 77,501; Jan. 15.
- Schmidt, Carlos A., Oakland, Calif. Vehicle signal casing. Des. 78,231; Apr. 9.
- Schmidt, Charles D., Jamaica, N. Y. Lining for brakes, clutches and the like. 1,716,090; June 4.
- Schmidt, Edward T., Blackwell, Okla. Token control. 1,740,962; Dec. 24.
- Schmidt, Edwin X. (See Packard, H. N., and Schmidt.)
- Schmidt, Edwin X., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Method of and apparatus for controlling the quality or total heating value of a flowing mixture of combustible fluids. 1,708,958; Apr. 16.
- Schmidt, Emil, Leipzig, Germany. Machine for the mechanical production of paper cups pressed in folds. 1,741,884; Dec. 31.
- Schmidt, Ernest H., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Shock-absorbing mechanism for truck bolsters. 1,702,366; Feb. 19.
- Schmidt, Ernst. (See Noichl, F. X., and Schmidt.)
- Schmidt, Ernst, Danzig-Langfurh, Free City of Danzig. Determining the quantity of flowing liquids or gases. 1,702,274; Feb. 19.
- Schmidt, Ernst W., Klein-Wanzleben, near Magdeburg, assignor to the firm I. D. Riedel-E. de Haen A.-G., Berlin-Brütz, Germany. Disinfecting seeds and composition therefor. 1,711,545; May 7.
- Schmidt, Eugene, St. Paul, Minn. Airplane. 1,736,632; Nov. 19.
- Schmidt, Felix. (See Porter, F. A., and Schmidt.)
- Schmidt, Ferdinand, Des Moines, Iowa. Teapot or similar article. Des. 78,408; Apr. 30.
- Schmidt, Ferdinand, Des Moines, Iowa. Dish or similar article. Des. 79,263; Aug. 20.
- Schmidt, Ferdinand, Des Moines, Iowa. Creamer or similar article. Des. 79,264; Aug. 20.
- Schmidt, Ferdinand, Des Moines, Iowa. Cup or similar article. Des. 79,265; Aug. 20.
- Schmidt, Ferdinand, Des Moines, Iowa. Sugar bowl or similar article. Des. 79,266; Aug. 20.
- Schmidt, Ferdinand, Des Moines, Iowa. Plate or similar article. Des. 79,482; Sept. 24.
- Schmidt, Ferdinand, Des Moines, Iowa. Goblet or similar article. Des. 79,778; Oct. 29.
- Schmidt, Franz, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Valve. 1,740,041; Dec. 17.
- Schmidt, Frederick W., Philadelphia, Pa. Advertising device. 1,739,865; Dec. 17.
- Schmidt, Friedrich J., Auburn, assignor to Bender Hoist Manufacturing Company, Omaha, Nebr. Hoisting and lifting crane. 1,741,660; Dec. 31.
- Schmidt, George C., Houston, Tex. Swing joint. 1,700,955; Feb. 5.
- Schmidt, George G., Long Beach, N. Y. Measuring device. 1,721,137; July 16.
- Schmidt, George V., Oakland, Calif. Electric heater. 1,715,518; June 4.
- Schmidt, Gerhard, and B. Settgast, assignors to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Sounding arrangement. 1,698,857; Jan. 15.
- Schmidt, Gustav E., Chicago, Ill. Support for skate runners and making same. 1,707,495; Apr. 2.
- Schmidt, Gustave H., Chicago, Ill. Detachable heel. 1,705,543; Mar. 19.
- Schmidt, Hans, Vohwinkel, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Complex metal compound of pyrocatechin. 1,718,492; June 25.
- Schmidt, Hans, Vohwinkel, near Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Complex metal compound of pyrogallol sulphonic acid. 1,718,493; June 25.
- Schmidt, Harry H., Upper Darby, assignor to Henry Schmidt & Bro. Inc., Philadelphia, Pa. Game board. Des. 79,443; Sept. 17.
- Schmidt, Henry, Milwaukee, Wis. Combination battery clamp and cable connector. 1,699,925; Jan. 22.
- Schmidt, Henry A., Comins, Mich. Internal-combustion engine. 1,697,931; Jan. 8.
- Schmidt, Henry, & Bro. Inc. (See Schmidt, Harry H., assignor.)
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Restraining guard for rotors. 1,698,514; Jan. 8.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Internal-combustion engine and generator. 1,701,340; Feb. 5.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Internal-combustion engine. 1,701,390; Feb. 5.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating system. 1,715,011; May 28.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Guide-vane construction for pumps and blowers. 1,716,003; June 4.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine blading. 1,720,695; July 16.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pump. 1,730,748; Oct. 8.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,737,736; Dec. 3.
- Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil cooler. 1,740,120; Dec. 17.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing. 1,715,010; May 28.
- Schmidt, Herman C., Richmond, Va. Draft-regulating system. 1,739,375; Dec. 10.
- Schmidt, Hermann, Reinickendorf-Ost, near Berlin, assignor to E. P. Lehmann, Brandenburg-on-the-Havel, Germany. Spinning top. 1,700,381; Jan. 29.
- Schmidt, Hubert R., Swedesboro, N. J., assignor to F. D. Fleming, Philadelphia, Pa. Latch needle. 1,709,631; Apr. 16.
- Schmidt, Irving, Brooklyn, N. Y. Hand-bag clasp. 1,736,095; Nov. 19.
- Schmidt, John. (See Smith, Alexander, assignor.)
- Schmidt, John, Hoopeston, Ill. Woodworking machine. Re17,329; June 18.
- Schmidt, John, assignor to Sprague-Sells Corporation, Hoopeston, Ill. Machine for washing fruits and vegetables. 1,705,544; Mar. 19.
- Schmidt, John, assignor to Sprague-Sells Corporation, Hoopeston, Ill. Apparatus for handling granular material. 1,723,211; Aug. 6.
- Schmidt, John, Hoopeston, Ill., assignor to Sprague-Sells Corporation. Machine for grading globular articles. 1,733,757; Oct. 29.
- Schmidt, John H., Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Polybasic-acid-polyhydric-alcohol resin and making same. 1,739,771; Dec. 17.
- Schmidt, John J., Waynesboro, Pa., and U. Steiner, Lima, Ohio, assignors to Landis Tool Company, Waynesboro, Pa. Work holder for cylinder-grinding machines. 1,697,782; Jan. 1.
- Schmidt, Joseph, assignor to Schmidt Sheet Metal Works, Buffalo, N. Y. Electric bath cabinet. 1,716,603; June 11.
- Schmidt, Julius, Frankfort-on-the-Main, Germany. Manufacturing of hollow bodies of circular cross section having entrance openings. 1,720,968; July 16.
- Schmidt, Karl, Munich, Germany. Treating green food. 1,703,782; Feb. 26.
- Schmidt, Karl, Munich, Germany. Apparatus for treating green food. 1,703,783; Feb. 26.
- Schmidt, Karl, Berlin, Germany. Automatic glass-washing device. 1,706,189; Mar. 19.
- Schmidt, Karl, Berlin-Lichtenrade, Germany. Arrangement for prevention of reverse current in battery chargers. 1,716,798; June 11.
- Schmidt, Karl, Berlin-Lichtenrade, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Speed regulator. 1,728,633; Sept. 17.
- Schmidt, Karl, Berlin-Lichtenrade, and W. Hahnemann, Berlin-Tempelhof, assignors to C. Lorenz Aktiengesellschaft, Berlin, Germany. Elimination of disturbing oscillations in high-frequency systems. 1,730,903; Oct. 8.
- Schmidt, Karl, Neuruppin, Germany, assignor, by mesne assignments, to Pyrene-Minimax Corporation. Producing a dry mixture of chemicals suitable for the preparation of fire foam. 1,739,094; Dec. 10.
- Schmidt, Karl W., Nuremberg, Germany. Capsule filling and closing machine. 1,716,009; June 4.
- Schmidt, Kurt, Cologne-Holweide, assignor to Motorenfabrik Deutz, Aktiengesellschaft, Cologne-Deutz, Germany. Governing system for Diesel engines with arrangements to work with increased admission pressure (supercharging). 1,718,586; June 25.
- Schmidt, Leonadas C., Houston, Tex. Safety attachment for locks. 1,725,886; Aug. 27.
- Schmidt, Louis A., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Web-assembling apparatus for printing presses and the like. 1,709,632; Apr. 16.
- Schmidt, Louis A., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Blanket-fastening means for impression cylinders. 1,739,045; Dec. 10.
- Schmidt, Louis W., Kansas City, Mo. Milk stool and pail holder. 1,703,547; Feb. 26.
- Schmidt, Max, and E. Neubacher, assignors to The Max Woher & Son Company, Cincinnati, Ohio. Bedside utility table. 1,715,076; May 28.
- Schmidt, Maximilian P., Biebrich-on-the-Rhine, and O. Herrmann, Mainz, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Isatin derivative and making same. 1,700,814; Feb. 5.
- Schmidt, Maximilian P. and O. Limpach, Biebrich-on-the-Rhine, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuff and making same. 1,706,902; Mar. 26.



- Schmidt, Maximilian P., and W. Neugebauer, Biebrich-on-the-Rhine, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of vat dyestuffs. 1,715,430; June 4.
- Schmidt & Meimer. (See Hirschner, Karl, assignor.)
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Measuring machine. 1,699,494; Jan. 15.
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Press head for stuffing machines. 1,700,098; Jan. 22.
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Endless conveyor. 1,701,455; Feb. 5.
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Meat-grinding machinery. 1,736,550; Nov. 19.
- Schmidt, Oscar J., Elmhurst, N. Y. Combination lock mechanism. 1,737,477; Nov. 26.
- Schmidt, Oscar W., Mankato, Minn. Double-wear harness attachment. 1,704,219; Mar. 5.
- Schmidt, Otto, O. Grosskinsky, and G. Niemann, Lodwighafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Splitting hydrocarbons. 1,732,381; Oct. 22.
- Schmidt-Predari, Albert, Weimar, Germany. Electric heating element and manufacturing same. 1,703,640; Feb. 26.
- Schmidt, Robert E., Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. 4,8-dimethylamino-1,5-dihydroxy-anthraquinone. 1,700,083; Jan. 22.
- Schmidt, Robert E., and R. Berliner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dye of the anthraquinone series. 1,706,498; Mar. 26.
- Schmidt, Robert E., and W. Trautner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Alpha-di(methylamino)-alpha-dihydroxy-anthraquinone disulphonic acids and making the same. 1,702,022; Feb. 12.
- Schmidt Sheet Metal Works. (See Schmidt, Joseph, assignor.)
- Schmidt, Walter, Hackensack, assignor, by mesne assignments, to International Musical Corporation, Hoboken, N. J. Stringed musical instrument. 1,697,480; Jan. 1.
- Schmidt, Werner. (See Benda, L., and Schmidt.)
- Schmidt, Wilhelm A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,696,976; Jan. 1.
- Schmidt, Wilhelm, and O. Hartmann, Cassel-Wilhelms-höhe, Germany, assignors to Schmidt'sche Heissdampf-Gesellschaft m. b. H. Process and apparatus for obtaining power and heat from steam. 1,741,378; Dec. 31.
- Schmidt, Willy. (See Schwarzenberger, H., and Schmidt.)
- Schmidtke, Albert H., assignor to St. Joseph Iron Works, St. Joseph, Mich. Fastener-inserting machine. 1,711,251; Apr. 30.
- Schmidtke, Emil, Colorado Springs, Colo. Vehicle brake. 1,709,326; Apr. 16.
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Hartmann, Otto H., assignor.)
- Schmidt'sche Heissdampf Gesellschaft m. b. H. (See Hartmann, O. H., and Jung, assignors.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Hartmann, O. H., and Thomsen, assignors.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Hartmann, O. H., and Wempe, assignors.)
- Schmidt'sche Heissdampf-Gesellschaft m. b. H. (See Schmidt, W., and Hartmann, assignors.)
- Schmidt'sche Heissdampf Gesellschaft m. b. H. (See Thomsen, Peter, assignor.)
- Schmidt'sche Heissdampf-Gesellschaft mit beschränkter Haftung. (See Hartmann, Otto H., assignor.)
- Schmidt'sche Heissdampf-Gesellschaft mit beschränkter Haftung. (See Hoffmann, Simon, assignor.)
- Schmiedeknecht, Victor E., Louisville, Ky. Plumbing fixture. 1,740,553; Dec. 24.
- Schmiedel, Alfred J., assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Müller & Co., Dresden, Germany. Device for controlling the draw-off hook carried by the filling member in cigarette-filling machines. 1,707,996; Apr. 9.
- Schmieding, Warren H. E., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,719,141; July 2.
- Schmiege, Frank F., Appleton, Wis. Combined shuttle, bobbin, and winding device. 1,698,610; Jan. 8.
- Schmierer, Eugene, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Shredder and mixer. 1,703,211; Feb. 26.
- Schmierer, Johannes M., Lichterfelde, near Berlin, Germany, assignor to the firm: Radio Patents Corporation, New York, N. Y. Amplification. 1,720,352; July 9.
- Schmierer, Johannes M., Gross Lichterfelde, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y. Apparatus for obviating network noises. 1,741,480; Dec. 31.
- Schmierer, Johannes M., Lichterfelde, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y. Preglow gas-discharge tube. 1,741,481; Dec. 31.
- Schmitt, Arthur J., Chicago, Ill. Self-aligning gasket and seat therefor. 1,714,141; May 21.
- Schmitt, Arthur J., Chicago, Ill. Gasket and seat therefor. 1,714,142; May 21.
- Schmitt, Conrad, Milwaukee, Wis. Hanging lantern. Des. 78,484; May 7.
- Schmitt, Conrad, Milwaukee, Wis. Hanging lantern. Des. 78,486; May 7.
- Schmitt, Frank R., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Insert attachment for wrapping machines. 1,729,457; Sept. 24.
- Schmitt, George B., Newark, Ohio. Foldable table. 1,702,952; Feb. 19.
- Schmitt, George F., assignor to Metal Products and Engineering Corporation, West Orange, N. J. Heat-transferring device. 1,710,323; Apr. 23.
- Schmitt, Henry, Detroit, Mich., assignor of one-half to McQuady-Norris Manufacturing Company, St. Louis, Mo., and one-half to No-Leak-O Piston Ring Company, Muskegon, Mich. Piston ring. 1,705,648; Mar. 19.
- Schmitt, John J. (See Sheppard, S. E., and Schmitt.)
- Schmitt, Joseph J., Algoma, Wis. Foldable chair. 1,736,631; Nov. 19.
- Schmitt, Joy B., assignor to The De Vilbiss Company, Toledo, Ohio. Toothbrush-holding device. 1,720,061; July 9.
- Schmitt, Lawrence R., assignor to Morkrum Company, Chicago, Ill. Radio telegraph system. 1,705,211; Mar. 12.
- Schmitt, Lorenz, and B. Reichold, Brooklyn, N. Y. Game board. 1,731,353; Oct. 15.
- Schmitt, Otto G., assignor to The Scholl Mfg. Co. Inc., Chicago, Ill. Metal-polishing machine. 1,741,166; Dec. 31.
- Schmitt, William H., St. Paul, Minn. Kettle cover. 1,711,749; May 7.
- Schmitt, William H., St. Paul, Minn. Cover holder for cooking utensils. 1,740,042; Dec. 17.
- Schmitt, William H., assignor to R. V. Funk, Long Beach, Calif. Vehicle spring-controlling device. 1,723,445; Aug. 6.
- Schmittgen, William A., assignor to The General Industries Company, Elyria, Ohio. Fastener. 1,727,134; Sept. 3.
- Schmittgen, William A., assignor to The General Industries Company, Elyria, Ohio. Molded knob. 1,728,218; Sept. 17.
- Schmitz, Carl, assignor to the firm Ramesohl & Schmidt A.-G., Oelde, Germany. Centrifugal dome with condensing arrangement. 1,734,533; Nov. 5.
- Schmitz, Fred A., assignor of forty-nine two-hundredths to C. W. Austin and forty-nine two-hundredths to W. Isler, Canton, Ohio. Golf putting green. Des. 80,142; Dec. 17.
- Schmitz, Isabelle W., Los Angeles, Calif. Doll bell. Des. 79,267; Aug. 20.
- Schmohl, Alfred C., Beaver Falls, assignor to Koppel Industrial Car and Equipment Company, Pittsburgh, Pa. Door for dump-car bodies. 1,699,408; Jan. 15.
- Schmohl, Alfred C., Beaver Falls, assignor, by mesne assignments, to Pressed Steel Car Company, Pittsburgh, Pa. Stake pocket. 1,718,308; June 25.
- Schmohl, Alfred C., Beaver Falls, and J. F. Anderson, Koppel, assignors, by mesne assignments, to Pressed Steel Car Company, Pittsburgh, Pa. Fluid-pressure-operated railway dump car. 1,711,211; Apr. 30.
- Schmoll, Edward, Antigo, Wis. Automatic coupling and release of air on railroad cars. 1,737,271; Nov. 26.
- Schmolze, Mildred C., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 77,986; Mar. 12.
- Schmuziger, Willy, Zurich, Switzerland. Discharging device for paints and the like. 1,714,482; May 21.
- Schjaable, George L., Riverside, Ill. assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating material. 1,720,749; July 16.
- Schnabel, Rudolf, Berlin, Germany, assignor, by mesne assignments, to Pyrene-Minimax Corporation. Generating foam, mixtures of liquid and gaseous substances, mixtures of different liquids and different gases, or emulsions. 1,740,840; Dec. 24.
- Schnefel Brothers, Inc. (See Schnefel, Max, assignor.)
- Schnefel, Max, Newark, N. J. Nail clipper. 1,702,137; Feb. 12.
- Schnefel, Max, assignor to Schnefel Brothers, Inc., Newark, N. J. Finger nail clip. 1,721,415; July 16.
- Schnefel, Maximilian, Newark, N. J. Nail file or similar article. Des. 78,802; June 18.
- Schneible, Claude D., et al., trustees. (See Schneible, Joseph, assignor.)
- Schneible, Frank, New York, N. Y. Bottle closure. 1,734,447; Nov. 5.
- Schneible, Frank W., assignor to Rome Manufacturing Company, Rome, N. Y. Lock-joint metal tubing. 1,718,983; July 2.
- Schneible, Joseph, deceased, Chicago, Ill.; B. S. Ingram, administratrix, assignor to C. D. Schneible, K. F. Schreier, and B. B. Schneider, as trustees under the name of The Schneible Trust. Heating device. 1,698,456; Jan. 8.
- Schneider, Adolf, assignor to Niederbayerische Cellulosewerke Aktiengesellschaft, Kelheim-on-the-Danube, Germany. Field tube boiler. 1,704,220; Mar. 5.
- Schneider, Adolf, Kelheim-Donau, assignor to Niederbayerische Cellulosewerke Aktiengesellschaft, Kelheim-on the Danube, Germany. Superheater. 1,707,143; Mar. 26.



- Schneider, Albert C., Fort Thomas, and H. E. Schneider, Newport, Ky., assignors to The Cincinnati Fly Screen Company, Cincinnati, Ohio. Fly screen. 1,722,947; July 30.
- Schneider, Arnold W. (See Browne, L. W., and Schneider.)
- Schneider, Benjamin B., et al., trustees. (See Schneible, Joseph, assignor.)
- Schneider, Bernard R., Lyndhurst, N. J., and A. M. Wickwire, jr., Brooklyn, assignors to Peerless Roll Leaf Co., Inc., New York, N. Y. Adjustable automatically-controlled strip-feeding mechanism. 1,728,908; Sept. 17.
- Schneider, Cale J., assignor to The De Vibiss Company, Toledo, Ohio. Night lamp. 1,719,198; July 2.
- Schneider & Cie. (See Fieux, Jean, assignor.)
- Schneider & Cie. (See Methlin, Nicholas E., assignor.)
- Schneider & Cie. (See Methlin, Nicolas E., assignor.)
- Schneider, Earl L. (See Cross, J. H., Franklin, and Schneider.)
- Schneider, Edward J. (See Williams, J. G., and Schnelder.)
- Schneider, Emil, Mailand, Italy. Accounting machine. 1,723,891; Aug. 6.
- Schneider, Franklin. (See Connell, E. L., and Schneider.)
- Schneider, Franklin, assignor to Van Dorn Electric Tool Company, Cleveland, Ohio. Power hammer. 1,725,212; Aug. 20.
- Schneider, Franz, Behringersdorf, and F. Singer, Nuremberg, assignors to "Fenag" Aktiengesellschaft, Nuremberg, Bavaria, Germany. Headlight for small-sized motor cars and motorcycles. 1,714,483; May 21.
- Schneider, George. (See Cameron, W. M., and Schneider.)
- Schneider, George. (See Dreyfus, C., and Schneider.)
- Schneider, George, La Salle, Ill. Dental instrument. 1,707,952; Apr. 2.
- Schneider, George and F. A. Welsmiller, Saginaw, Mich. Tappet. 1,720,353; July 9.
- Schneider, Gustav E., and R. W. Dailey, Chicago, Ill. Combined smoker's stand and set. Des. 79,391; Sept. 10.
- Schneider, Harry E. (See Schneider, Albert C. and H. E.)
- Schneider, Heinrich, Illnau, Switzerland. Transmission gear. 1,697,253; Jan. 1.
- Schneider, Henry, Lenzburg, Switzerland. Electric drive for machines by the aid of frequency converters. 1,723,528; Aug. 6.
- Schneider, John J., Buffalo, N. Y. Baby walker. 1,704,346; Mar. 5.
- Schneider, Josef C. M., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,725,542; Aug. 20.
- Schneider, Laura M., New York, N. Y. Bracelet vanity case. 1,714,732; May 28.
- Schneider, Max, Denver, Colo. Lawn sprinkler. 1,712,523; May 14.
- Schneider, Oscar K., Chicago, Ill., assignor to Frank S. Betz Company, Hammond, Ind. Radiator shield. 1,707,282; Apr. 2.
- Schneider, Otto. (See Breuninger, E., and Schneider.)
- Schneider, Peter, Glendale, and J. Kinsler, New York, N. Y. Block-table planer. 1,702,059; Feb. 12.
- Schneider, Robert W., New York, N. Y. Bottom for shoes. 1,731,225; Oct. 8.
- Schneider, Stephan, Meissen, Germany, assignor to Westinghouse Electric & Manufacturing Company. Melting furnace. 1,715,678; June 4.
- Schneider, Victor H., Iron Mountain, Mich. Air filter for combustion motors. 1,723,813; Aug. 6.
- Schneider, Walter C., Detroit, Mich. Starter-motor drive. 1,741,251; Dec. 31.
- Schneider, William, Erie, Pa., assignor to Hays Manufacturing Co. Handle attachment. 1,741,588; Dec. 31.
- Schneider, William H. (See Schmid, E. E., and Schneider.)
- Schnell, Emil and P. Glendale, Long Island, N. Y. Laundry-machinery lock. 1,741,661; Dec. 31.
- Schnell, George F., Diamond Springs, Calif. Log stop. 1,721,835; July 23.
- Schnell, George F., Diamond Springs, assignor to Martin Air Dog Company, San Francisco, Calif. Dogging device. 1,712,311; May 7.
- Schnell, Karl, Ulm-on-the-Danube, Germany. Plug-in coupling for electric conductors. 1,735,981; Nov. 19.
- Schnell, Philip. (See Schnell, Emil and P.)
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Radiator cap. Des. 77,709; Feb. 12.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Corner light for the interior of an automobile. Des. 77,710; Feb. 12.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Dome light for an Automobile. Des. 78,232; Apr. 9.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Hinge for a Refrigerator. Des. 78,409; Apr. 30.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Latch for a refrigerator door. Des. 78,656; May 28.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Latch for a refrigerator. Des. 78,657; May 28.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Automobile window-regulator handle or similar article. Des. 78,947; July 9.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Automobile window-regulator handle or similar article. Des. 78,948; July 9.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Torchère light for an automobile vehicle. Des. 79,268; Aug. 20.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Dome light or the like for a vehicle body. Des. 79,341; Sept. 3.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Torchère light for an automobile vehicle. Des. 79,342; Sept. 3.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Automobile window-regulator handle. Des. 79,762; Oct. 29.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Dome light or the like for an automobile vehicle. Des. 79,855; Nov. 5.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Smoking case or the like. Des. 79,856; Nov. 5.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Combination smoking and vanity case or the like. Des. 79,857; Nov. 5.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Radiator cap or the like for an automobile. Des. 79,936; Nov. 19.
- Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Dome light for an automobile vehicle. Des. 79,940; Nov. 19.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Combined smoking and vanity case for an automobile vehicle. Des. 80,054; Dec. 3.
- Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Corner light for an automobile vehicle. 80,245; Dec. 31.
- Schnellpressenfabrik Aktiengesellschaft Heidelberg. (See Jereczek, Viktor, assignor.)
- Schnepf, Emil L., assignor to Scammell China Company, Trenton, N. J. Plate. Des. 79,269; Aug. 20.
- Schnepf, Johann, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Recuperative annealing furnace. 1,705,686; Mar. 19.
- Schnitzeler, Peter, Berlin, and A. Karolus, Leipzig, Germany, assignors to Radio Corporation of America. Picture recording. 1,697,932; Jan. 8.
- Schnitzer, Benjamin. (See Hillgardt, E., and Schnitzer.)
- Schnitzer, Benjamin, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Airship. 1,701,466; Feb. 5.
- Schnitzer, Beno, Akron, Ohio, assignor to Luftschiffbau Zeppelin mit Gesellschaft beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Airship mooring and transporting device. 1,706,414; Mar. 26.
- Schnitzer, Beno, Akron, Ohio, and W. E. Dörr, assignors to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Anchoring device for airships. 1,706,415; Mar. 26.
- Schnitzer, Richard, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Speed-control system for electric motors. 1,699,024; Jan. 15.
- Schnitzler, August, assignor to the firm M. Rudolf Jahr, Maschinenfabrik, Gera, Germany. Multifiler stretching, tentering, and drying machine. 1,710,843; Apr. 30.
- Schnetzler, Eberhard, Hanau-on-the-Main, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Thermal relay. 1,722,768; July 30.
- Schnitzspahn, Karl. (See Keller, F., and Schnitzspahn.)
- Schnull, Gustav A., et al. (See Davis, Dean W., assignor.)
- Schnürle, Adolf, Stuttgart, Germany. Atomizing oil. 1,709,744; Apr. 16.
- Schnurrenberger, Heinrich, assignor to Landis & Gyr A.-G., Zug, Switzerland. Contact device for electric-clock systems. 1,699,547; Jan. 22.
- Schoel, Jacob. (See Szabo, Alexis, assignor.)
- Schockett, Harry U., and C. O. Woodworth, Denver, Colo. Apparatus for displaying lighting fixtures. 1,704,953; Mar. 12.
- Schoedinger, F. O. (See Conrad, Isiah, assignor.)
- Schoelkopf, Louis F., Madison, Wis. Door-operating device. 1,716,707; June 11.
- Schoeller, Alfred, Frankfurt-on-the-Main, Germany. Electric cigar lighter. Re17,436; Sept. 17.
- Schoeller, Alfred, Frankfurt-on-the-Main, Germany. Electric cigar lighter. Re17,460; Oct. 15.
- Schoeller, Gustave A., Heinitz, France. Movable turntable for railways. 1,702,549; Feb. 19.
- Schoeller, Walter. (See Jordan, H., Schoeller, and Clerc.)
- Schoeller, Walter, Berlin-Westend, and H. Schotte, Berlin-Wilmersdorf, assignors to the firm Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Alkaloid salts and making same. 1,717,585; June 18.
- Schoeller, Walter, Berlin-Westend, and H. Jordan, Berlin-Steglitz, assignors to the firm Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Production of menthol. 1,718,666; June 25.
- Schoeller, Walter, Berlin-Westend, and C. Zöllner, Berlin-Charlottenburg, assignors to the firm Schering-Kahlbaum Aktiengesellschaft, Berlin, Germany. Ketone and making same. 1,737,203; Nov. 26.
- Schoeller, Walter, Berlin-Charlottenburg, H. Jordan, Berlin-Steglitz, and R. Clerc, assignors to Schering-Kahlbaum A.-G., Berlin, Germany. Production of menthol. 1,737,272; Nov. 26.
- Schoeller, Walter, and H. Schotte, assignors to the firm Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Esters of amino propanes. 1,711,696; May 7.



- Schoen, Charles C. (See Wolfson, S. L., and Schoen.)  
 Schoen, Harry. (See Fischer, P. A., Schoen, and Goldstein.)  
 Schoen, Louis, Bronx, N. Y. Combined washtub and sink unit. 1,705,880; Mar. 19.  
 Schoenberg, Milton H., and L. Schon, San Francisco, Calif., said Schon assignor to said Schoenberg. Light-dashing system. 1,732,488; Oct. 22.  
 Schoenberger, William, et al. (See Phillips, Ross M. G., assignor.)  
 Schoenbuecher, Frank, Milwaukee, Wis. Valve. 1,701,217; Feb. 5.  
 Schöenemann, Karl, Mannheim-Rheinau, Germany. Working down the products arising when coal is liquefied by hydrogenation. 1,709,957; Apr. 23.  
 Schoenfeld, Joseph, Alameda, Calif. Gas heater. 1,725,162; Aug. 20.  
 Schoenfeld, Morris, Zurich, Switzerland. Apparatus and method of wet treating textile threads. 1,719,730; July 2.  
 Schoenholz, Irving. (See McCabe, C. J., and Schoenholz.)  
 Schoenthaler, George H., Rochester, N. Y., assignor, by mesne assignments, to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,719,945; July 9.  
 Schoettel, Eugen. (See Liebert, H. R., and Schoettel.)  
 Schofield, Charles, Philadelphia, Pa. Carding picker. 1,737,435; Nov. 26.  
 Schofield, Charles, Philadelphia, Pa. Willow. 1,738,396; Dec. 3.  
 Schofield, George L., National City, Calif. Water-circulating-apparatus attachment for internal-combustion motors and the like. 1,708,239; Apr. 9.  
 Schofield, John C., Los Angeles, Calif. Fruit grader. 1,706,548; Mar. 26.  
 Schofield, John G., Washington, D. C. Dispensing device. 1,720,096; July 9.  
 Schofield, William B., New York, N. Y. Hose supporter. 1,721,749; July 23.  
 Schofield, Fred, and N. Denner, Walkden, assignors to Burgess Ledward & Company Limited, Manchester, England. Obtaining luster and matte effects on yarns or fabrics composed wholly or in part of viscose in the sulphur state. 1,724,375; Aug. 13.  
 Scholes, Daniel R., assignor to Aeromotor Company, Chicago, Ill. Motion-transmitting mechanism. 1,740,627; Dec. 24.  
 Scholes, Howard S., Providence, R. I. Foldable box. 1,726,682; Sept. 3.  
 Scholes, Samuel R. (See Dunbar, G. S., and Scholes.)  
 Scholl, Frank. (See Benson, G. A., and Scholl.)  
 Scholl, Louis, Wasco, Oreg. Fish snubber. 1,723,814; Aug. 6.  
 Scholl Mfg. Co., The. (See Berman, Samuel, assignor.)  
 Scholl Mfg. Co. Inc., The. (See Schmitt, Otto G., assignor.)  
 Scholl, Milo T., Baldwin Township, Allegheny County, Pa. Candy forming and cutting machine. 1,703,962; Mar. 5.  
 Scholl, William M., Chicago, Ill. Stocking protector for shoes. 1,710,077; Apr. 23.  
 Scholl, William M., Chicago, Ill. Arch support and ankle-tipping corrector. 1,716,740; June 11.  
 Scholl, William M., Chicago, Ill. Measuring the human feet. 1,725,021; Aug. 20.  
 Scholl, William M., Chicago, Ill. Arch support. 1,736,418; Nov. 19.  
 Scholl, William M., Chicago, Ill. Orthopedic sock. 1,741,340; Dec. 31.  
 Scholl, William M., Chicago, Ill. Arch support. 1,741,341; Dec. 31.  
 Scholler, Frederick C., Philadelphia, Pa. Stocking form. 1,712,094; May 7.  
 Schöller, Heinrich, Essen, Germany. Separating switch for high-voltage aerial conductors. 1,715,391; June 4.  
 Schollhorn, William, Company, The. (See Bernard, William A., assignor.)  
 Schöllkopf, Karl, assignor to Rheinische Kampfer-Fabrik Gesellschaft mit beschränkter Haftung, Düsseldorf-Oberkassel, Germany. Manufacture of menthol. 1,704,630; Mar. 5.  
 Schollmeyer, William A., Yonkers, N. Y. Storage vault. 1,713,558; May 21.  
 Scholz, Paul, Frankfurt-on-the-Main, Germany. Making reversible concentrates from natural milky juices such as latex. 1,729,522; Sept. 24.  
 Scholz, Richard, Lorain, Ohio, assignor to National Tube Company. Coupling-gauging machine. 1,711,179; Apr. 30.  
 Scholz, Richard, Königswusterhausen/Berlin, assignor to the firm W. Marx & Co., Halle-on-the-Saale, Germany. Dough-cutting machine. 1,720,097; July 9.  
 Schoman, George E., New York, N. Y. Shirt. 1,737,617; Dec. 3.  
 Schombourger, Lucien, St-Ouen, France, assignor to General Electric Company. Dynamo-electric machine. 1,719,905; July 9.  
 Schon, Jindřich, Senice Na Hane, Czechoslovakia. Grain-husking machine. 1,731,871; Oct. 15.  
 Schon, Lester. (See Schoenberg, M. H., and Schon.)  
 Schön, Ludwig, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Converting multiphase current into single-phase current and vice versa. 1,712,719; May 14.  
 Schonberg, Jackson R. (See Becker, A. E., and Schonberger.)  
 Schönberger, Moritz, Vienna, Austria. Display stand or the like. 1,723,892; Aug. 6.  
 Schonbrunn, Jakob, Aarau, and G. Keller, Brugg, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Heat-treatment apparatus. 1,697,144; Jan. 1.  
 Schöneberger, Adolph, assignor to Albert Benfield, New York, N. Y. Gas-meter fitting. 1,722,236; July 23.  
 Schöner, Bernhard, Wolfen Kr. Bitterfeld, and F. Virck, Dessau in Anhalt, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Treating animal fibers. 1,708,635; Apr. 9.  
 Schönfeld, Carl, Munich, assignor to A. Kiehnle, Pforzheim, Germany. Cigarette holder. 1,705,099; Mar. 12.  
 Schönfeld, Johan F. P., Hilversum, Netherlands, assignor of one-half to N. V. De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Obtaining solid paraffin. 1,724,731; Aug. 13.  
 Schönfeld, Johan F. P., Hilversum, Netherlands, assignor of one-half to N. V. De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Separating congealable solids from oils. 1,724,732; Aug. 13.  
 Schönhöfer, Fritz. (See Schulemann, W., Schönhöfer, and Mietzsch.)  
 Schönhöfer, Fritz. (See Schulemann, W., Schönhöfer, and Wiegler.)  
 Schonitzer, Rudolph I., Maumee, assignor, by mesne assignments, to The Steel Wool Products Corporation, Perryburg, Ohio. Apparatus for making metal wool and shavings. Re17,343; June 25.  
 Schons, Nicholas D., Nicolet, Minn. Ice-cutting machine. 1,731,872; Oct. 15.  
 Schooley, Edward A., Dormont, Pa. Railway signal torpedo. 1,720,924; July 16.  
 Schooley, Edward A., Dormont, Pa. Railway signal torpedo. 1,720,925; July 16.  
 Schoolfield, Henry O., Mullins, S. C., assignor to Mullins Lumber Company. Hoghead closure. 1,709,409; Apr. 16.  
 Schooling, Henry E., Napa, Calif. Floor-polishing machine. 1,707,575; Apr. 2.  
 Schoonenberg, Pancras, assignor to Naamlooze Venootschap Internationala Octrooibureau, Eindhoven, Netherlands. Process and apparatus for sealing off a hollow glass body from an annular glass body. 1,741,662; Dec. 31.  
 Schoonmaker, Edwin B., assignor to The Tissue Company, Saugerties, N. Y. Paper napkin or the like. Des. 79,610; Oct. 15.  
 Schoonmaker, James M., jr., Sewickley, and L. M. Stempel, Coraopolis, Pa. Apparatus for batch tempering. 1,702,524; Feb. 19.  
 Schoonmaker, William H., Montclair, N. J. Headlight. 1,737,027; Nov. 26.  
 Schoor, Samuel, Newark, N. J. Resilient wheel. 1,741,344; Dec. 31.  
 Schöpf, Clemens, Munich, assignor to the firm C. H. Boehringer Sohn, Nieder-Ingelheim-on-the-Rhine, Germany. Manufacture of derivatives of dihydrocodelnone or its substitution products. 1,731,152; Oct. 8.  
 Schopf, Henry S., Spokane, Wash. Molding vault lids. 1,701,014; Feb. 5.  
 Schopper, Walter. (See Kirmse, E., and Schopper.)  
 Schoppner, William C., Astoria, N. Y. Duplex depositor. 1,711,750; May 7.  
 Schor, Joseph, et al. (See Meyer, Ferd H., assignor.)  
 Schorger, Arlie W., assignor, by mesne assignments, to Burgess Battery Co., Madison, Wis. Plastic conductive composition. 1,717,171; June 11.  
 Schorger, Arlie W., assignor, by mesne assignments, to Burgess Battery Co., Madison, Wis. Sealing compound. 1,717,172; June 11.  
 Schorger, Arlie W., Madison, assignor, by mesne assignments, to Wood Conversion Company, St. Paul, Minn. Production of mucic acid. 1,718,837; June 25.  
 Schorger, Arlie W., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Making stereotype mat. 1,720,243; July 9.  
 Schorger, Arlie W., assignor to Burgess Battery Company, Madison, Wis. Dry cell with extensible coating. 1,732,069; Oct. 15.  
 Schori, Fritz, Wetzikon, assignor to the firm Bauer A. G., Zurich, Switzerland. Paddock. 1,726,861; Sept. 3.  
 Schossow, Frederick A., Detroit, Mich. Automatic air valve for hydropneumatic tanks. 1,728,577; Sept. 17.  
 Schott, Charles G., St. Louis, Mo. Heating stove. Des. 80,190; Dec. 24.  
 Schott, Charles R., New York, N. Y. Liquid-dispensing device. 1,708,240; Apr. 9.  
 Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Toaster. Des. 79,483; Sept. 24.  
 Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Sugar bowl. Des. 80,143; Dec. 17.  
 Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Cream pitcher. Des. 80,144; Dec. 17.  
 Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Casserole cover. Des. 80,145; Dec. 17.  
 Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Teapot. Des. 80,146; Dec. 17.  
 Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Coffee percolator. Des. 80,147; Dec. 17.



- Schott, Robert A. (See Hoffman, Fred P., assignor.)  
 Schott, William, Hanover, Germany. Electric circulating heater. 1,704,021; Mar. 5.  
 Schott, Wilson K., East Greenville, Pa. Hand circular saw. 1,713,096; May 14.  
 Schotte, Herbert. (See Schoeller, W., and Schotte.)  
 Schottthoefer, Joseph G., Peoria, Ill. Pumping mechanism. 1,723,403; Aug. 6.  
 Schou, Eugene, Brooklyn, assignor to E. Winsnes, New York, N. Y. Seepage protector for building walls. 1,704,954; Mar. 12.  
 Schou, Theodor, assignor to The Ideal Electric & Manufacturing Co., Mansfield, Ohio. Electric motor and generator. 1,736,551; Nov. 19.  
 Schouten, Frans K. L., Zaandam, Netherlands. Producing wood pulp. 1,717,266; June 11.  
 Schowengerdt, Theodore L., Gebo, Wyo. Automatic stop mechanism for phonographs. 1,704,063; Mar. 5.  
 Schrader, Thomas O., Allentown, assignor to The Dent Hardware Company, Fullerton, Pa. Closure fastener. 1,701,593; Feb. 12.  
 Schrader, Thomas O., Allentown, assignor to The Dent Hardware Company, Fullerton, Pa. Closure fastener. 1,703,249; Feb. 26.  
 Schrader, Thomas O., Allentown, assignor to The Dent Hardware Co., Fullerton, Pa. Toy pistol. 1,735,698; Nov. 12.  
 Schrader's, A., Son, Incorporated. (See Kraft, Henry P., assignor.)  
 Schrader's, A., Son Incorporated. (See Schweinert, Maximilian C., assignor.)  
 Schrader's, A., Son, Inc. (See Wahl, J., and Melzer, assignors.)  
 Schrafft, W. F., & Sons Corporation. (See Steely, Dale G., assignor.)  
 Schrago, Samuel, Los Angeles, Calif. Pressure-relief attachment for pens. 1,702,953; Feb. 19.  
 Schraig, James V., Richmond Hill, N. Y. Receptacle terminal block. 1,697,329; Jan. 1.  
 Schraishuhn, Theodore A., Coraopolis, Pa., assignor to Lewis Foundry & Machine Company. Rolling mill. 1,717,586; June 18.  
 Schramm, Adolph W., Riverton, N. J., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Dental chair. 1,702,175; Feb. 12.  
 Schramm, Albert O., St. Louis, Mo., assignor, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio. Air heater for drying cabinets. 1,718,984; July 2.  
 Schramm, Albert O., St. Louis, Mo., assignor, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio. Stretching and drying frame. 1,741,541; Dec. 31.  
 Schramm, Albert O., and J. H. Schreiber, St. Louis, Mo., assignor, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio. Machine for raising nap on textiles and the like. 1,741,542; Dec. 31.  
 Schramm, Carl. (See Clark, E. W., and Schramm.)  
 Schramm, Carl, West Hartford, assignor to The Smyth Manufacturing Company, Hartford, Conn. Back-lining feed for book-cover-making machines. 1,724,047; Aug. 13.  
 Schramm, Fred W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Remote control system. 1,698,772; Jan. 15.  
 Schramm, Henry N., West Chester, Pa. Power-transmitting flexible coupling. 1,734,598; Nov. 5.  
 Schramm, Henry N., West Chester, Pa. Engine compressor. 1,738,121; Dec. 3.  
 Schramm, Joseph, McKees Rocks, Pa. Antiskid device. 1,700,272; Jan. 29.  
 Schramm, Richard, assignor to The National Marking Machine Company, Cincinnati, Ohio. Automatic tape-marking device. 1,714,143; May 21.  
 Schramm, Walter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bus-bar-supporting structure. 1,724,887; Aug. 13.  
 Schramm, Walter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Self-locking terminal. 1,726,683; Sept. 3.  
 Schraups, Paul C., Guayaquil, Ecuador. Cyanide process of treating ores containing precious metals. 1,734,306; Nov. 5.  
 Schraub, Christel, Mainz, Germany. Device for stopping back flashings of the flames in pipings for feeding gases or gas mixtures. 1,701,276; Feb. 5.  
 Schrauth, Walther. (See Schroeter, G., and Schrauth.)  
 Schrauth, Walther, Rossau, Anhalt, Germany, assignor to Newport Manufacturing Company, Carrollville, Wis. Procedure for the preparation of hydrogenated naphthalene. 1,733,908; Oct. 29.  
 Schreer, Karl, Erlangen, near Nuremberg, Germany, assignor to M. E. Berhardt Company, Inc., New York, N. Y. Lighter. 1,738,451; Dec. 3.  
 Schreiber, Herman, Lansing, Mich. Purifying raw sugar juices. 1,724,376; Aug. 13.  
 Schreiber, John H. (See Schramm, A. O., and Schreiber.)  
 Schreibman, Harry, New York, N. Y. Lighting fixture. Des. 78,902; July 2.  
 Schreibman, Harry, and L. Goldberg, Brooklyn, N. Y. Lighting-fixture bracket. Des. 77,502; Jan. 15.  
 Schreibman, Harry, and L. Goldberg, Brooklyn, N. Y. Lighting fixture. Des. 77,503; Jan. 15.  
 Schreibman, Harry, and L. Goldberg, Brooklyn, N. Y. Lighting-fixture bracket. Des. 77,504; Jan. 15.  
 Schreier, K. F., et al., trustees. (See Schneible, Joseph, assignor.)  
 Schreier, Karl R., Callao, Peru. Crude-oil burner. 1,735,658; Nov. 12.  
 Schreil, August, Milwaukee, Wis., assignor, by mesne assignments, to Outboard Motors Corporation, Detroit, Mich. Magneto. 1,734,850; Nov. 5.  
 Schreier, Albert C., New York, N. Y. Cooling chamber for smoking pipes. 1,721,531; July 23.  
 Schrenkeisen, William C., Mount Vernon, assignor to Hill Laundry Equipment Co., Inc., Long Island City, N. Y. Shoe drier. 1,731,272; Oct. 15.  
 Schriel, August, and H. J. Hillborn, Milwaukee, Wis., assignors, by mesne assignments, to Outboard Motors Corporation, Detroit, Mich. Electrical system for outboard Schriever, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Picture telegraphy. 1,724,684; Aug. 13.  
 Schriever, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Berlin, Germany. Modulating carrier wave by photo electric currents. 1,733,397; Dec. 3.  
 Schröder, George T., Worcester, Mass. Bridge for violins. 1,737,338; Nov. 26.  
 Schröder, Hans W. C., Lubeck, assignor to A. B. Dräger, deceased, Finkelberg, Lubeck, Germany; E. Dräger, administratrix. Apparatus for use in administering gases, vapors, and the like. 1,702,932; Feb. 19.  
 Schröder, Hans W. C., Lubeck, assignor, by mesne assignments, to H. O. Dräger, Lubeck, Germany. Inhaling apparatus. 1,731,273; Oct. 15.  
 Schroder, Howard, Oakland, Calif. Windshield wiper. 1,719,731; July 2.  
 Schroder, John E., assignor to Hartford-Empire Company, Hartford, Conn. Mold-inverting mechanism for glassware-forming machines. 1,707,178; Mar. 26.  
 Schroder, William, Covington, Ky., assignor to The Sebastian Lathe Company, Cincinnati, Ohio. Power-transmitting mechanism. 1,708,903; Apr. 9.  
 Schroeder, Anthony, assignor of one-half to J. M. Finney, Cleveland, Ohio. Rolling-down machine. 1,703,431; Feb. 26.  
 Schroeder, Anthony, deceased; A. Y. Beckwith, administrator, assignor of one-half to J. M. Finney, Cleveland, Ohio. Attaching means. 1,737,028; Nov. 26.  
 Schroeder, Arthur C., Syracuse, N. Y. Carton and means for opening the same. 1,724,224; Aug. 13.  
 Schroeder, Bernhard, Chicago, Ill. Furnace-wall construction. 1,710,901; Apr. 30.  
 Schroeder Brothers Mfg. Company, The. (See Schroeder, Hugo F., assignor.)  
 Schroeder, Charles F. (See Waggle, Carl, assignor.)  
 Schroeder, Ernest A., San Francisco, Calif. Propeller. 1,720,969; July 16.  
 Schroeder, F. August. (See Nagel, Richard, assignor.)  
 Schroeder, Frank J., Rochester, N. Y. Indicating system for refrigerators. 1,703,068; Feb. 19.  
 Schroeder Fred, Fort Worth, Tex. Bottle. Des. 77,370; Jan. 1.  
 Schroeder, Fred, et al. (See Lowe, Earl R., assignor.)  
 Schroeder, Hans C., La Grange, Ill., assignor to Goss Printing Press Company. Ink fountain and method. 1,736,941; Nov. 26.  
 Schroeder, Hans C., La Grange, Ill., assignor to Goss Printing Press Company. Ink fountain and method. 1,736,942; Nov. 26.  
 Schroeder, Hans C., La Grange, Ill., assignor to Goss Printing Press Company. Ink fountain and method. 1,736,943; Nov. 26.  
 Schroeder, Hans C., La Grange, Ill., assignor to Goss Printing Press Company. Ink fountain and method. 1,736,944; Nov. 26.  
 Schroeder, Hans C., La Grange, Ill., assignor to Goss Printing Press Company. Ink fountain. 1,736,945; Nov. 26.  
 Schroeder, Harry C., Concord, Calif. Key purse. 1,735,300; Nov. 12.  
 Schroeder, Henry F., assignor to Milwaukee Die Casting Co., Milwaukee, Wis. Guide thermometer. 1,735,880; Nov. 19.  
 Schroeder, Hugo F., Torrington, Conn., assignor to The Schroeder Brothers Mfg. Company. Printer's chase. 1,712,741; May 14.  
 Schroeder, John H. (See Richard, W. E., and Schroeder.)  
 Schroeder, John H., Chicago, Ill. Grave closure. 1,705,786; Mar. 19.  
 Schroeder, Louis H., Woodhaven, and J. Wagner, Brooklyn, N. Y. Waste ejector for box-blanking machines. 1,713,054; May 14.  
 Schroeder, Louis J. (See Perrault, J. E., and Schroeder.)  
 Schroeder, Melchior. (See Zahn, L. J., and Schroeder.)  
 Schroeder, Oscar C., assignor of fifty-one percent to Hardinge Brothers, Inc., Chicago, Ill. Mechanical movement. 1,709,233; Apr. 16.  
 Schroeder, Paul P., Greenwich, Conn. Radio loud-speaker. 1,721,794; July 23.  
 Schroeder, Paul P., assignor of one-tenth to W. C. Strong, Greenwich, Conn. Radio loud-speaker. 1,739,615; Dec. 17.  
 Schroeder, Richard. (See Starke, H., and Schroeder.)  
 Schroeder, Simon E., Minier, Ill. Washing-machine casing. Des. 79,581; Oct. 8.



- Schroeder, Simon E., assignor, by mesne assignments, to Automatic Washer Company, Inc., Newton, Iowa. Gear housing for washing machines. 1,739,616; Dec. 17.
- Schroeder, William C., Harrisburg, Pa., assignor to Indelible Coloration Corporation, New York, N. Y. Staining ink. 1,732,342; Oct. 22.
- Schroeder, William G., assignor of one-half to A. L. McGill, Bartlesville, Okla. Power take-off. 1,707,496; Apr. 2.
- Schroers, Willy, assignor to Johannes Klienewefers, Krefeld, Germany. Economizer tube. 1,709,745; Apr. 16.
- Schroeter, Fritz, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Method and arrangement for the production of stereoaoustic photographs. 1,708,523; Apr. 9.
- Schroeter, Fritz, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Synchronizing method and arrangement therefor. 1,716,903; June 11.
- Schroeter, Georg, Berlin, and W. Schrauth, Rossau, Anhalt, Germany, assignors to Newport Manufacturing Company, Carrollville, Wis. Hydrogenation of naphthalene. 1,733,909; Oct. 29.
- Schroeter, Oscar J. (See Holmes, Thomas C., assignor.)
- Schröter, Fritz, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Method and system for constant-frequency beat-reception of radio-signals. 1,735,134; Nov. 12.
- Schröter, Fritz, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Synchronizing arrangement for picture transmission. 1,738,673; Dec. 10.
- Schröter, Karl, Berlin-Lichtenberg, Germany, assignor to General Electric Company. Hard-metal composition. 1,721,416; July 16.
- Schröter, Karl, Berlin-Lichtenberg, Germany, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Making tools from hard-metal alloys produced by sintering. 1,728,909; Sept. 17.
- Schrott, Kasimir, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Lead-cable press. 1,737,773; Dec. 3.
- Schroyer, Harry H., Chicago, Ill., assignor to Morton Manufacturing Company. Curtain roller. 1,726,720; Sept. 3.
- Schroyer, Harry H., Chicago, Ill., assignor to Morton Manufacturing Company. Swivel curtain hook. 1,727,909; Sept. 10.
- Schruth, Albert E., E., and J., Pepin, Wis. Neck yoke. 1,714,523; May 28.
- Schruth, Edward. (See Schruth, Albert E., E., and J.)
- Schruth, John. (See Schruth, Albert E., E., and J.)
- Schryer, Paul F., Milwaukee, Wis., assignor to International Harvester Company. Motor-attachment belt tightener. 1,701,732; Feb. 12.
- Schryver, Hazel M., Rhinebeck, N. Y. Eyeglass shield. 1,710,245; Apr. 23.
- Schubardt, Walter. (See Meiser, W., Schubardt, and Kramer.)
- Schubardt, Walter. (See Mittsch, A., Müller, Schlecht, and Schubardt.)
- Schubart, Benno, Nuremberg, assignor to Vereinigte Schuhfabriken Berneis-Wessels Aktiengesellschaft, Augsburg-Oberhausen, Germany. Toy amusement box. Des. 77,505; Jan. 15.
- Schubart, Friedrich, Monterey, Mexico. Heat-exchange apparatus. 1,734,274; Nov. 5.
- Schubert, Alfred, Gross-Hennersdorf, near Herrnhut, Germany. Rack. 1,707,576; Apr. 2.
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Reciprocating guide motions for directing yarn or other material to winding bobbins or the like. 1,728,448; Sept. 17.
- Schubert, Friedrich W., assignor to Brysilka, Limited, Apperley Bridge, near Bradford, England. Washing and conditioning artificial silk wound on bobbins or the like. 1,736,096; Nov. 19.
- Schubert, Hermann, Radebeul, near Dresden, Germany. Support or carrier for material to be sifted. 1,727,944; Sept. 10.
- Schubert, Hermann J., Hackensack, N. J. Construction of buildings. 1,732,620; Oct. 22.
- Schubert, M. (See Müller, J., and Schubert.)
- Schubert, Paul T., Mill Valley, Calif. Hack-saw-blade holder. 1,726,241; Aug. 27.
- Schubert & Salzer Maschinenfabrik Aktiengesellschaft. (See Graeber, Rudolph, assignor.)
- Schuberth, Paul, Augsburg, Germany. Truck for removing house refuse. 1,739,133; Dec. 10.
- Schuch, August. (See Barber, G. H., and Schuch.)
- Schuchardt, August, Winona, Minn. Attrition mill. 1,724,318; Aug. 13.
- Schuchert, Otto A., Elgin, Ill. Nonglare device. 1,716,604; June 11.
- Schuda, Ernest J., assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,709,098; Apr. 16.
- Schuda, Ernst J., assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,736,468; Nov. 19.
- Schuerman, William H., Nashville, Tenn. Lock mechanism. 1,723,956; Aug. 6.
- Schuermann, Anton C. (See Mueller, P., and Schuermann.)
- Schuermann, Helena, executrix. (See Mueller, P., and Schuermann.)
- Schuetz, Robert W. (See Wilson, E. H., and Schuetz.)
- Schuetz, Albert A., assignor to Home Incinerator Co., Milwaukee, Wis. Incinerator. 1,715,954; June 4.
- Schuetz, Conrad, assignor, by mesne assignments, to R. and H. P. Liberman, Philadelphia, Pa. Automatic control. 1,727,910; Sept. 10.
- Schub, Edward J., Spokane, Wash. Concrete-tamping machine and method. 1,702,798; Feb. 19.
- Schub, Franz, Vienna, Austria. Wind and water wheel. 1,739,866; Dec. 17.
- Schuhmann, Richard L., assignor to W. F. Stimpson, Louisville, Ky. Computing scale. 1,736,130; Nov. 19.
- Schuldt, Sophie J., Jersey City, N. J. Folding furniture. 1,728,009; Sept. 10.
- Schulemann, Werner, Vohwinkel-on-the-Rhine, and F. Schönhöfer and F. Mietzsch, Elberfeld-on-the-Rhine, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. New 6-alkoxy-8-amino-quinolines. 1,703,365; Feb. 26.
- Schulemann, Werner, Vohwinkel, near Elberfeld, and Fritz Schönhöfer and A. Winger, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of 6-alkyl-8-aminoquinolines. 1,728,189; Sept. 17.
- Schuler, Everett T. (See Webster, Hyleman A., assignor.)
- Schuler, Hermann, and A. Gietmann, Unterluss, assignors to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Operating electric projectile fuses. 1,739,921; Dec. 17.
- Schuler, Hermann, Dusseldorf, and A. Krum, Dusseldorf-Elber, assignors to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Carriage for automatic firearms. 1,722,397; July 30.
- Schuler, Hermann, Dusseldorf, and A. Krum, Dusseldorf-Elber, assignors to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Guard for toothed sector gears. 1,734,051; Nov. 5.
- Schuler, Hermann, and F. Linder, Dusseldorf, assignors to Rheinische Metallwaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Carriage for light ordnance. 1,740,907; Dec. 24.
- Schuler, Howard G., Los Angeles, Calif. Safety clutch mechanism for motor vehicles. 1,720,007; July 9.
- Schuler, L. A.-G. (See Lubich, Max, assignor.)
- Schuler, Max, Göttingen, Germany. Gyroscopic apparatus for extending the period of oscillation of bodies. 1,735,058; Nov. 12.
- Schuler, Philippe. (See Knab, Hermann, assignor.)
- Schuller, Martin J., Milwaukee, Wis. Air cleaner for rock drills. 1,724,733; Aug. 13.
- Schullström, Tage. (See Wettstein F., and Schullström.)
- Schullström, Tage, New York, N. Y. Regulation. 1,726,721; Sept. 3.
- Schulman, Joseph, Brooklyn, N. Y. Automobile bumper. 1,708,804; Apr. 9.
- Schulman, Solomon, New York, N. Y. Mop wringer. 1,725,213; Aug. 20.
- Schulte, Eugen. (See Siedler, P., and Schulte.)
- Schulte, Frederick E., Baltimore, Md. Folding chair. 1,698,243; Jan. 8.
- Schulte, Fritz. (See Herz, R., and Schulte.)
- Schulte, Fritz. (See Herz, R., Schulte, and Zerweck.)
- Schulte, Karl, Duisburg-Ruhrort, Germany. Roller conveyor. 1,725,740; Aug. 20.
- Schulte, Louis, Pittsburgh, assignor to Allegheny Steel Company, Brackenridge, Pa. Electroplating process. 1,717,468; June 18.
- Schulte, John O., assignor of one-third to W. Van Agthoven and one-third to M. Maes, Cincinnati, Ohio. Closet seat. 1,697,663; Jan. 1.
- Schultes, Paul, Leichlingen, Germany. Tensioning device for roller blinds. 1,726,589; Sept. 3.
- Schultheiss, John, Baltimore, Md. Pipe cutter. 1,703,548; Feb. 26.
- Schultheiss, William F., Los Angeles, Calif. Valve-seat structure for bibbs and the like. 1,708,241; Apr. 9.
- Schultz, Adelbert W. R., Clarion, Iowa. Quick-change pump-jack head. 1,705,839; Mar. 19.
- Schultz, Alfred W., Waterloo, Iowa. Pipe-forming machine. 1,711,180; Apr. 30.
- Schultz, Arnold J., Brooklyn, N. Y. Pipe extractor. 1,723,893; Aug. 6.
- Schultz, August L., assignor to The American Multigraph Company, Cleveland, Ohio. Overthrow preventer in addressing machines. 1,713,097; May 14.
- Schultz, August L., assignor to The American Multigraph Company, Cleveland, Ohio. Control mechanism for embossing machines. 1,728,369; Sept. 17.
- Schultz, Carl H., Milwaukee, Wis. Ornament hanger for Christmas trees. 1,703,901; Mar. 5.
- Schultz, Frank A., assignor to Pelouze Manufacturing Company, Chicago, Ill. Hem gauge. 1,700,857; Feb. 5.
- Schultz, Fred, Decatur, Ill. Vehicle signal. 1,715,869; June 4.
- Schultz, Fred K., Toledo, Ohio. Railway tie. 1,717,267; June 11.
- Schultz, Gilbert J. (See Slidell, K., and Schultz.)
- Schultz, Hermann, Lankwitz, near Berlin, Germany. Preparing sections for aluminothermic welding. 1,712,524; May 14.
- Schultz, Hermann, Berlin-Lankwitz, Germany. Mold for aluminothermic welding of rails. 1,732,382; Oct. 22.
- Schultz, Joseph, Cleveland, Ohio. Inking-surface-cleansing appliance Re17,275; Apr. 16.



- Schultz, Joseph, Cleveland, Ohio. Inking-surface cleanser. 1,700,453; Jan. 29.
- Schultz, Joseph, Cleveland, Ohio. Inking-surface-cleaning appliance. 1,700,518; Jan. 29.
- Schultz, Klara, Brooklyn, N. Y. Catamenial belt. 1,733,429; Oct. 29.
- Schultz, Richard W., Richmond, Va. Rail joint. 1,725,105; Aug. 20.
- Schultze, Francis J., Chicago, Ill. Tree holder. 1,732,284; Oct. 22.
- Schultze, Willi, Halle-on-the-Saale, Germany. Treating talloel. 1,736,802; Nov. 26.
- Schulz, Arthur E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-treating apparatus. 1,701,639; Feb. 12.
- Schulz, George W., Cleveland, Ohio, assignor to Yawman & Erbe Manufacturing Co., Rochester, N. Y. Check-sorting tray. 1,699,025; Jan. 15.
- Schulz, Hans, assignor to the Firm: G. & J. Jaeger Aktiengesellschaft, Elberfeld, Germany. Journal bearing. 1,709,442; Apr. 16.
- Schulz, Henry A. (See Holloway, J. C., and Schulz.)
- Schulz, Josef, Barmen, Germany. Sheet-metal casing for photographic films. 1,727,449; Sept. 10.
- Schulz, Josef, Pecky, Czechoslovakia. Sowing machine. 1,727,911; Sept. 10.
- Schulz, M., Company. (See Gustafson, Adolph P., assignor.)
- Schulz, Max, Brooklyn, N. Y. Cigar cutter. 1,730,438; Oct. 8.
- Schulz, Solomon G., Parkston, S. Dak. Tie hitch. 1,721,356; July 16.
- Schulz, William. (See von Zsolnay, O., Coquelin, and Schulz.)
- Schulze, John W., Providence, R. I. Pocket receptacle. 1,711,971; May 7.
- Schulze, John W., Providence, R. I. Cigar lighter. 1,741,956; Dec. 31.
- Schulze, Sophia, M., St. Louis, Mo. Utility rack. 1,707,081; Mar. 19.
- Schulze, William H., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Liquid-handling device. 1,720,380; July 9.
- Schum, William S., New York, N. Y. Signal device. 1,710,432; Apr. 23.
- Schum, William S., New York, N. Y. Signal device. 1,733,134; Oct. 29.
- Schumacher, Carl E., et al. (See Espenschied, Virgil F., assignor.)
- Schumacher, Conrad. (See Gaisman, H. J., and Schumacher.)
- Schumacher, Conrad, Lynnbrook, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Strip severing machine. 1,722,617; July 30.
- Schumacher, Conrad, Lynnbrook, assignor to Auto Strop Safety Razor Co. Inc., New York, N. Y. Metal-aligning device. 1,739,738; Dec. 17.
- Schumacher, Earle E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron emitter and making the same. 1,700,454; Jan. 29.
- Schumacher, Erwin A. (See Heise, G. W., and Schumacher.)
- Schumacher, George A. and H. W., Albion, Mich. Orthopedic or fracture bed frame. 1,699,026; Jan. 15.
- Schumacher, H. B., administrator. (See Hohulin, Samuel.)
- Schumacher, Hans. (See Gerth, F., and Schumacher.)
- Schumacher, Harold W. (See Schumacher, George A. and H. W.)
- Schumacher, Henry C. (See Hansen, Arthur C., assignor.)
- Schumacher, Howard F., et al. (See Espenschied, Virgil F., assignor.)
- Schumacher, John, Los Angeles, Calif. Forming plaster board. 1,718,712; June 25.
- Schumacher, John, Los Angeles, Calif. Apparatus for printing wall board. 1,719,199; July 2.
- Schumacher, John, Los Angeles, Calif. Plaster board. 1,719,200; July 2.
- Schumacher, Wilhelm, Sossenheim, near Höchst-on-the-Main, and C. Seib, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparing homogeneous pure 2.3 and 2.5 dichloro-4-amino-1-methylbenzene. 1,712,173; May 7.
- Schumacher, William H., Tampa, Fla. Trousers stretcher and shaper. 1,720,970; July 16.
- Schuman, John M. (See Teasdale, Fred, assignor.)
- Schumann, Alfred E. (See Gerdes, H. T., and Schumann.)
- Schumann, Alfred F., Baltimore, Md., assignor to Hauck Manufacturing Company, Brooklyn, N. Y. Liquid-heating apparatus. 1,723,082; Aug. 6.
- Schumann, Carl A., Osterburg, Pa. French-horn mute. 1,737,098; Nov. 26.
- Schumann, Curt, E. Münch, O. Schlitchting, and B. Christ, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Production of formaldehyde sulphonylates. 1,714,636; May 28.
- Schumann, Curt, E. Münch, O. Schlitchting, and B. Christ, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Production of aldehyde sulphonylates. 1,714,637; May 28.
- Schumann, Theodore E., New York, N. Y. Heating device. 1,703,047; Feb. 19.
- Schumarty, William H., Woodbridge, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condenser. 1,733,999; Oct. 29.
- Schumpelt, Karl, assignor to E. G. Bek, Pforsheim, Germany. Soldering and product thereof. 1,713,677; May 21.
- Schundler, Hans O., et al. (See Dwyer, Thomas A. W., assignor.)
- Schünemann, Heinrich, Spandau, assignor to Messrs. Neuenburg'sche Verwaltungsgesellschaft m. b. H., Gereonshaus, Cologne, Germany. Apparatus for uniformly feeding cut tobacco to the rod-forming mechanism of cigarette-making machines. 1,724,319; Aug. 13.
- Schupp, Alfred, Austin, Tex. Cutter head. 1,716,192; June 4.
- Schur, Milton O. (See Richter, G. A., and Schur.)
- Schur, Milton O. (See Richter, G. A., Schur, and Rasch.)
- Schur, Milton O., assignor to Brown Company, Berlin, N. H. Doser. 1,729,312; Sept. 24.
- Schur, Milton O., assignor to Brown Company, Berlin, N. H. Refining pulp. 1,730,386; Oct. 8.
- Schur, Milton O., and R. H. Rasch, assignors to Brown Company, Berlin, N. H. Processing of cellulose fiber. 1,730,387; Oct. 8.
- Schur, Milton O., and O. L. Robertson, assignors to Brown Company, Berlin, N. H. Electric boiler. 1,738,733; Dec. 10.
- Schürer, Eugen, assignor to Felten & Guilleaume Carls-werk Actien-Gesellschaft, Cologne-Mulheim, Germany. Armoring of single-conductor electric power cables. 1,697,541; Jan. 1.
- Schurger, Josephine E., Twin Falls, Idaho. Hair waver. 1,721,837; July 23.
- Schuricht, Alfons G. (See Olin, J. M., and Schuricht.)
- Schuricht, Alfons G., and J. D. McNutt, Alton, assignors to Western Cartridge Company, East Alton, Ill. Electrically-ignited detonating or blasting cap. 1,704,222; Mar. 5.
- Schurig, Otto R., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic pressure-measuring means. 1,718,494; June 25.
- Schürmann, Friedrich, assignor to the Firm Aug. Klönne, Dortmund, Germany. Sealing piston for reservoirs for the storage of gas, steam, or easily-evaporating liquids. 1,722,863; July 30.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Machine for finishing gear teeth. 1,697,823; Jan. 1.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Grinding apparatus. 1,701,456; Feb. 5.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Machine and method for profiling gear teeth. 1,712,095; May 7.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Machine for generating worm wheels. 1,714,109; May 21.
- Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Gear-grinding machine. 1,720,404; July 9.
- Schurtz, Ralph E., Kansas City, Mo. Liquor-transfer-valve operation for absorption refrigerator systems. 1,740,715; Dec. 24.
- Schussler, John H., Chicago, Ill. Inking mechanism for printing presses. 1,709,958; Apr. 23.
- Schustarich, George, Chicago, Ill. Strap wrench. 1,726,862; Sept. 3.
- Schuster, Karl, Hopatcong, N. J. Reinforced floor construction. 1,707,026; Mar. 26.
- Schuster, Karl, Hopatcong, N. J. Fireproof construction. 1,702,706; Feb. 19.
- Schuster, William P., Jackson, Mich. Joist-reinforcing device. 1,698,202; Jan. 8.
- Schutt, Robert K., Chicago, Ill. Flat-arch concrete floor construction. 1,702,749; Feb. 19.
- Schutt, William A., Litchfield, Ill. Football indicator. 1,709,041; Apr. 16.
- Schütte, Alfred H. (See Poppensieker, Fritz, assignor.)
- Schutte, August E., Northboro, Mass. Producing concrete structures. 1,733,699; Oct. 29.
- Schutte, August E., Northboro, Mass. Apparatus for spreading and leveling road materials. 1,739,804; Dec. 17.
- Schutte, August E., Northboro, assignor to The Flintkote Company, Boston, Mass. Method and apparatus for saturating fibrous materials in the manufacture of roofing. 1,715,392; June 4.
- Schütte, Hermann, Mannheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Tanning agent. 1,727,135; Sept. 3.
- Schutte, Junius M., assignor to The Aero Model Company, Chicago, Ill. Toy aeroplane. 1,723,446; Aug. 6.
- Schutte, Karl H., Jersey City, N. J., assignor of one-half to J. F. Darling, Brooklyn, N. Y. Impregnating felt or other fabrics. 1,736,633; Nov. 19.
- Schutte and Koerting Company. (See Knauf, Paul W., assignor.)
- Schutte and Koerting Company. (See Muhleisen, Karl, assignor.)
- Schutte and Koerting Company. (See Von Brockdorff, Rudolf, assignor.)
- Schuttler, Paul, Charlottenburg, Germany. Oscillation absorber for leafsprings. 1,736,670; Nov. 19.
- Schütz, Conrad, assignor, by mesne assignments, to R. Liberman and H. P. Liberman, Philadelphia, Pa. Control mechanism. Re17,331; June 18.
- Schütz, Ludwig. (See Hahl, H., and Schütz.)



- Schuyler, Frank B., Berkeley, and J. F. Russell, Oakland, assignors to Johnson Washer Co., Emeryville, Calif. Washing machine. 1,705,070; Mar. 12.
- Schuyler, William H., Grand Rapids, Mich. Printing press. 1,706,988; Mar. 26.
- Schwab, A. G., & Sons. (See Schwab, Julian G., assignor.)
- Schwab, Charles T., assignor to Sharon Steel Hoop Company, Sharon, Pa. Bundling machine. 1,719,732; July 2.
- Schwab, Gustav W., and F. J. Schweizer, jr., Elizabeth, N. J. Case-hardening process. 1,730,247; Oct. 1.
- Schwab, James W., Gulf, assignor to Texas Gulf Sulphur Company, Bay City, Tex. Treating sulphur. 1,723,815; Aug. 6.
- Schwab, John, jr., Winnipeg, Manitoba, Canada. Tube lining. 1,715,213; May 28.
- Schwab, Joseph B. (See Glenn, J. W., Hood, and Schwab.)
- Schwab, Julian G., assignor to A. G. Schwab & Sons, Cincinnati, Ohio. Ring. Des. 78,538; May 14.
- Schwab, Martin C., Chicago, Ill., assignor to Otis Elevator Company, New York, N. Y. Moving stairway. 1,740,121; Dec. 17.
- Schwab, Max E., and A. Wuischpard, New York, N. Y., assignors to Hamilton Watch Company, Lancaster, Pa. Watchcase. Des. 78,487; May 7.
- Schwabach, Max, Berlin-Halensee, Germany. Removing furnace residues. 1,713,718; May 21.
- Schwabbauer, Reinhold, Berlin-Steglitz, assignor of two-thirds to K. Starke, Berlin, Germany, and K. Paschke, Vienna, Austria. Interchangeable pad for boot heels. 1,732,621; Oct. 22.
- Schwabe, Hermann J., Chemnitz, Germany. Dampening silk and like filaments for use on textile machines. 1,705,212; Mar. 12.
- Schwabe, Joseph, jr., Milwaukee, assignor to H. W. Bolens, Port Washington, Wis. Space-plate cleaner. 1,731,987; Oct. 15.
- Schwaber, William E., et al. (See Abel, Joseph C., assignor.)
- Schwafel, Michael, Taft, Calif. Well-drilling tool. 1,716,741; June 11.
- Schwalbe, Carl G., Eberswalde, Germany. Carbonizing a cellulose-containing substance such as wood, peat, and the like. 1,728,807; Sept. 17.
- Schwalbe, Carl G., Eberswalde, Germany. Carbonizing the organic constituents of sulphite cellulose lye. 1,731,354; Oct. 15.
- Schwalberg, Abraham, Brooklyn, N. Y. Wrist-watch strap. 1,713,098; May 14.
- Schwalge, Albert J., Chicago, Ill. Swimming appliance. 1,705,738; Mar. 19.
- Schwall, Oscar. (See Strickler, J. C., and Schwall.)
- Schwaller, Emil, Bern, Switzerland. Closure for receptacles. 1,713,982; May 21.
- Schwanzel, Lawrence G., and O. A. Knisely, Toledo, Ohio, said Schwanzel, assignor to said Knisely. Curative-ray generator. 1,735,215; Nov. 12.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 78,539; May 14.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 78,840; June 25.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. Des. 79,104; July 30.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. Des. 79,105; July 30.
- Schwarber, Henry, Weehawken, N. J. Embroidered lace medallion. Des. 79,941; Nov. 19.
- Schwartz, Alfred J., Detroit, Mich. Eyeglasses. 1,737,521; Nov. 26.
- Schwartz, Bertha, et al., executors. (See Schwartz, Jacob C.)
- Schwartz, Carl, et al. (See Trenzen, Carl, assignor.)
- Schwartz, Carl, New Rochelle, N. Y., assignor to International Combustion Engineering Corporation. Apparatus for generating steam. 1,698,825; Jan. 15.
- Schwartz, Charles M., Philadelphia, Pa., assignor to E. Sommerich, New York, and A. H. Strauss, Woodmere, N. Y. Diaper. 1,723,303; Aug. 6.
- Schwartz, Daniel, Chicago, Ill. Radio station indicator cover. Des. 79,911; Nov. 12.
- Schwartz, Daniel, Chicago, Ill. Radio logging and indicating device. 1,734,694; Nov. 5.
- Schwartz, Edward, San Francisco, Calif. Necktie restorer. 1,725,214; Aug. 20.
- Schwartz, Eugene, assignor to Ketterlinus Lithographic Manufacturing Co., Philadelphia, Pa. Window display. 1,696,977; Jan. 1.
- Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Radiocabinet. Des. 77,506; Jan. 15.
- Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Table for radio receiving sets or the like. Des. 77,654; Feb. 5.
- Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Brooklyn, N. Y. Radiocabinet. Des. 78,233; Apr. 9.
- Schwartz, George L., et al. (See Sheldon, Carson J., assignor.)
- Schwartz, George L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose-nitrate plastic. 1,710,078; Apr. 23.
- Schwartz, Gerhardt F., St. Louis, Mo. Water tank and radiant fire arrangement. 1,706,416; Mar. 26.
- Schwartz, Jacob C., deceased, St. Louis, Mo.; B. Schwartz and The Mercantile Trust Company, executors. Making dentures. 1,699,859; Jan. 22.
- Schwartz, Joseph I., Denver, Colo. Demountable jewel. 1,726,926; Sept. 3.
- Schwartz, Joseph L., Philadelphia, assignor to Sidway-Topliff Company, Washington, Pa. Sidewalk bicycle. 1,710,194; Apr. 23.
- Schwartz, Kevie W., New York, N. Y., assignor to Chromium Corporation of America. Method and apparatus for electrodepositing chromium. 1,720,354; July 9.
- Schwartz, Michael, assignor to Automatic Electric Inc., Chicago, Ill. Battery-charging system. 1,727,381; Sept. 10.
- Schwartz, Morris A., Los Angeles, Calif. Distortion motor. 1,716,091; June 4.
- Schwartz, Rudolph L., and W. P. Martin, Buffalo, N. Y. Gasoline-pump casing. Des. 79,992; Nov. 26.
- Schwartz, Samuel, Albany, N. Y. Necktie. 1,741,345; Dec. 31.
- Schwartz, Samuel R. (See Bostroem, August, assignor.)
- Schwartz, Stephen, Columbus, Ind., assignor to Doherty Research Company, New York, N. Y. Oil-receiving box. 1,721,056; July 16.
- Schwartz, Walter M., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Panel for driers. 1,741,342; Dec. 31.
- Schwartz, Willard A., Los Angeles, Calif. Newspaper-press blanket. 1,702,620; Feb. 19.
- Schwartzberg, Louis, Chicago, Ill. Cellular packing for fragile objects. 1,706,082; Mar. 19.
- Schwartzman, Harry, Jersey City, N. J. Finger-nail file. 1,707,879; Apr. 2.
- Schwartzman, Harry, Jersey City, N. J. Garment-display holder. 1,720,295; July 9.
- Schwarz, Albert, Cincinnati, Ohio. Making signs. 1,717,738; June 18.
- Schwarz, Alfred, Upper Montclair, N. J. Apparatus for distilling oil. 1,713,149; May 14.
- Schwarz, Alfred, Upper Montclair, N. J., assignor to Coal and Oil Products Corporation. Oil-cracking process. 1,714,453; May 21.
- Schwarz, Alfred, Upper Montclair, N. J., assignor to Coal and Oil Products Corporation. Apparatus for cracking oil. 1,714,454; May 21.
- Schwarz, Alfred, Montclair, N. J. Combined process of distilling, cracking, and gas making and apparatus therefor. 1,733,135; Oct. 29.
- Schwarz, Alfred, Montclair, N. J. Apparatus for gasifying oil. 1,734,648; Nov. 5.
- Schwarz, Anton, Berlin-Weidmannslust, Germany. Working up mixed shavings of white metal and red metal. 1,739,992; Dec. 17.
- Schwarz, Ernst, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Mixed fertilizer. 1,699,254; Jan. 15.
- Schwarz, Henry G., Denver, Colo. Clarifier and thickener. 1,704,993; Mar. 12.
- Schwarz, Philipp, Barmen, Germany. Stamping process. 1,726,242; Aug. 27.
- Schwarz, Philipp, Barmen, Germany. Stamping process for making sheet-metal articles. 1,739,524; Dec. 17.
- Schwarz, Rudolph J., assignor to American Standard Watch Case Company, Providence, R. I. Wrist-watch bracelet. 1,700,084; Jan. 22.
- Schwarz, Rudolph J., assignor to American Standard Watchcase Company, Providence, R. I. Making watch centers. 1,732,196; Oct. 15.
- Schwarz, Sidney L. (See Bryant, Frank L., assignor.)
- Schwarz, Sigmond C. (See Ripley, R. R., and Schwarz.)
- Schwarz, Vincent. (See Jakopac, G., and Schwarz.)
- Schwarze, Herman, Birmingham, assignor to General Motors Corporation, Detroit, Mich. Spark-plug-wire manifold. 1,697,783; Jan. 1.
- Schwarze, Herman, and F. M. Holden, Pontiac, assignors to General Motors Corporation, Detroit, Mich. Lock-controlled switch system. 1,717,414; June 18.
- Schwarzl, Henry, Chillicothe, Ohio. Musical instrument. 1,728,370; Sept. 17.
- Schwarzenbach-Huber Company, The. (See Rush, John, assignor.)
- Schwarzenberger, Hugo, and W. Schmidt, Nuremberg, Germany. Expansible hinge for trunk cases. 1,707,027; Mar. 26.
- Schwarzkopf, Arthur R. (See Athey, I. H., and Schwarzkopf.)
- Schwarzkopf, Arthur R., and R. R. Wagner, assignors to Theo. A. Kochs Company, Chicago, Ill. Barber's pole. Des. 77,862; Feb. 26.
- Schwarzkopf, Arthur R., and R. R. Wagner, assignors to Theo. A. Kochs Company, Chicago, Ill. Barber's pole. Des. 77,987; Mar. 12.
- Schwarzkopf, Jacob, Toledo, Ohio. Awning-cord guide for window screens. 1,709,883; Apr. 23.
- Schweger, Clarence C. (See Strossacker, C. J., and Schweger.)
- Schweich, Julius S., University City, Mo. Carton. 1,697,664; Jan. 1.
- Schweich, Roger, assignor to Societe Anonyme des Engrenages Citroen, Paris, France. Spur-gear speed-increasing and speed-reducing standard device in which the distance between centers and the gear ratio are variable. 1,720,971; July 16.
- Schweig, Julius A., St. Louis, Mo. Elevator door. 1,709,595; Apr. 16.



- Schweig, Julius A., St. Louis, Mo. Lock for elevator doors. 1,709,596; Apr. 16.
- Schweiger, John F., Flora, Ind. Fastening for artificial limbs. 1,728,308; Sept. 17.
- Schweiger, William F., Rochester, N. Y. Mail-printing machine. 1,737,339; Nov. 26.
- Schweiker, Roy W., Lansdale, Pa. Side-wall lighting fixture. Des. 79,672; Oct. 22.
- Schweimler, Robert W., Emsworth, and G. C. Chirichigno, Pittsburgh, Pa. Spacing instrument. 1,729,523; Sept. 24.
- Schweinert, Maximilian C., deceased, New York, N. Y.; C. E. Whitney, M. Schweinert, and The Farmers Loan and Trust Company, executors, Wall-building apparatus. 1,696,925; Jan. 1.
- Schweinert, Maximilian C., New York, assignor to A. Schrader's Son Incorporated, Brooklyn, N. Y. Making tire valves. 1,724,426; Aug. 13.
- Schweinert, May, et al., executors. (See Schweinert, Maximilian C.)
- Schweinhart, Harrison S. (See Harner, J. Z., and Schweinhart.)
- Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
- Schweitzer, Edmund O., Chicago, Ill. Oil switch. 1,712,174; May 7.
- Schweitzer, Hugo, and J. Huismann, Wiesdorf-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Trisazo dyestuff. 1,730,692; Oct. 8.
- Schweizer, Frederick J., jr. (See Schwab, G. W., and Schweizer.)
- Schweizer, Hans, assignor to Theo. Tiedmann & Sons, Inc., New York, N. Y. Textile fabric. Des. 79,168; Aug. 6.
- Schweizer, Hans, assignor to Theo. Tiedmann & Sons, Inc., New York, N. Y. Textile fabric. Des. 79,169; Aug. 6.
- Schweizer, Hans, assignor to Theo. Tiedmann & Sons, Inc., New York, N. Y. Textile fabric. Des. 79,573; Oct. 8.
- Schweizer, Hans, assignor to Theo. Tiedmann & Sons, Inc., New York, N. Y. Textile fabric. Des. 79,574; Oct. 8.
- Schweizer, Hans, assignor to Theo. Tiedmann & Sons, Inc., New York, N. Y. Textile fabric. Des. 79,575; Oct. 8.
- Schweller, Sylvester M., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,739,655; Dec. 17.
- Schwender, Anthony F., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronizing revolving bodies. 1,716,154; June 4.
- Schwender, Anthony F., Essington, Pa., assignor to Westinghouse Electric & Manufacturing Company. Valve-operating mechanism. 1,729,458; Sept. 24.
- Schwengler, Johannes, Stretlitz, Germany. Hollow body, especially for airships. 1,710,195; Apr. 23.
- Schwenk, Erwin, Aussig, Czechoslovakia. Manufacture and production of 2-hydroxy-3-carboxy naphthalene and its metallic salts. 1,700,546; Jan. 29.
- Schwenk, Erwin, and Karl Reichner, Aussig, and M. Knob, Freudenthal in Schlesien, assignors to Verein fuer Chemische und Metallurgische Produktion, Karlsbad, Czechoslovakia. Dyeing animal fibers. 1,718,882; June 25.
- Schwenk, Ladislaus W., Flushing, N. Y. Carboy loader, mover, and tilter. 1,727,523; Sept. 10.
- Schwennker, Charles F., Schenectady, N. Y., assignor to General Electric Company. Electric switch-operating mechanism. 1,721,417; July 16.
- Schwennker, Charles F., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,728,836; Sept. 17.
- Schwenzfeier, Carl W., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Mold for forming glassware. 1,729,363; Sept. 24.
- Schwer, John, Pittsburgh, Pa. Protector for receptacles. 1,711,751; May 7.
- Schwerin, Frank H., Bellevue, assignor to The Duff-Norton Manufacturing Company, Pittsburgh, Pa. Jack. 1,709,746; Apr. 16.
- Schwerin, Paul, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,724,971; Aug. 20.
- Schwerin, Paul, New York, N. Y., and J. G. Pfeiffer, Union Hill, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Glass-working machine. 1,724,972; Aug. 20.
- Schweter, Erich, Bornstedt, Germany. Water-cooling radiator for use in heavy vehicles. 1,705,143; Mar. 12.
- Schwier, Wilbur C., and N. V. Schaaf, Indianapolis, Ind. Automobile vacuum-cleaner switch. 1,729,364; Sept. 24.
- Schwieterman, August G., Dayton, Ohio. Center finder. 1,723,529; Aug. 6.
- Schwietzke, Gottlieb, Dusseldorf, Germany. Milling machine. 1,697,372; Jan. 1.
- Schwimmer, Fredrick J., assignor to The National Supply Company, Toledo, Ohio. Guard for lubricated surfaces. 1,739,046; Dec. 10.
- Schwinn, Frank W., Chicago, Ill. Refrigerating machine. 1,697,542; Jan. 1.
- Schwindt, Christian J. (See John, K. B., Coslow, and Schwindt.)
- Schwoebel, George A., Bordentown, N. J. Gun. 1,734,501; Nov. 5.
- Schwoeppe, Henry G. (See Allen, J. E., and Schwoeppe.)
- Schwoerer, Hermann, New York, N. Y. Ashtray. 1,722,252; July 23.
- Schwoerer, Richard C. (See Rice, John V., jr., assignor.)
- Schworetzky, Gustav, Esslingen, assignor, by mesne assignments, to the firm Jifa Ges. m. b. H., Berlin, Germany. High-pressure cartridge for fire-extinguishing apparatus and the like. 1,723,580; Aug. 6.
- Schylander, John F., Chicago, Ill. Soldering apparatus. 1,738,800; Dec. 10.
- Scientific Farming Machinery Company. (See Hicks, Thomas W., assignor.)
- Scintilla Magneto Company. (See Wilder, Laurence R., assignor.)
- Scobey, John L., Louisville, Ky. Making of mattresses and the like. 1,715,573; June 4.
- Scofield, Earle L. (See Gray, E. D., Scofield, and Defoe.)
- Scofield, Sherman W. (See Parks, Frederick J., assignor.)
- Scofield, Theodore J. (See Sparks, W., Scofield, Billig, and Johnson.)
- Scofield, Theodore J., and G. A. White, assignors to The Sparks-Withington Company, Jackson, Mich. Lamp socket. 1,731,205; Oct. 8.
- Scofield, Thomas E. (See Oberle, Alfred, assignor.)
- Scoggins, Jesse C., Los Angeles, Calif., assignor to E. A. Lynch, trustee in bankruptcy for R. Scoggins, doing business as Excell Manufacturing Company. Doll's bed. 1,700,338; Jan. 29.
- Scoggins, Jesse C., Los Angeles, Calif. Shear. 1,714,455; May 21.
- Scoggins, Robert. (See Scoggins, Jesse C.)
- Scognamillo, Rose B., New York, N. Y. Combined supporter and undergarment. 1,701,425; Feb. 5.
- Scotcher, Charles A., Brookline, assignor to S. C. S. Box Company, Palmer, Mass. Receptacle or carton and locking means therefor. 1,715,047; May 28.
- Scotland, Bayard S., Joliet, Ill. Carton. 1,737,950; Dec. 3.
- Scott, Albert C. (See Owen, A. E., and Scott.)
- Scott, Alexander C., Cardiff, Wales, assignor to Mexico Limited, London, England. Explosive. 1,700,085; Jan. 22.
- Scott, Allison F. H. (See Kogstrom, Axel W., assignor.)
- Scott, Alva W., and H. D. Geyer, assignors, by mesne assignments, to The Inland Manufacturing Company, Dayton, Ohio. Handwheel. 1,719,026; July 2.
- Scott, Angus, Cleveland, Ohio. Trolley ear. 1,731,442; Oct. 15.
- Scott, Arthur C., Dallas, and W. G. Rupe, Cameron, Tex. Insulator. 1,718,259; June 25.
- Scott, Beverley R., Woodlyne, N. J., assignor to The Hammarlund Manufacturing Company, Incorporated. Coil construction. 1,719,241; July 2.
- Scott, Beverley R., Woodlyne, N. J., assignor to The Hammarlund Manufacturing Company, Incorporated. Coil. 1,719,242; July 2.
- Scott, Braxton L., Arlington, Va. Toy race course. 1,700,273; Jan. 29.
- Scott, Burton W. (See Kath, A. W., and Scott.)
- Scott, Carl F., Schenectady, N. Y., assignor to General Electric Company. Motor controller. 1,734,919; Nov. 5.
- Scott, Carl F., East Orange, N. J., assignor to General Electric Company. System and apparatus for testing prime movers. 1,738,452; Dec. 3.
- Scott, Carlyle H., New York, N. Y. Truck tank for liquids. 1,705,649; Mar. 19.
- Scott, Carlyle H., New York, N. Y. Concrete mixer. 1,737,522; Nov. 26.
- Scott, Cecil M., Springfield, Mo. Pipe cutter. 1,699,027; Jan. 15.
- Scott, Charles C., Portland, Oreg. Machine for reducing records to graphs. 1,729,630; Oct. 1.
- Scott, Clarence C., Paris, Tenn. Car replacer. 1,713,453; May 14.
- Scott, Clifford E., assignor to McQuay Radiator Corporation, Minneapolis, Minn. Heat-exchange device. 1,704,409; Mar. 5.
- Scott, Clifford E., assignor to McQuay Radiator Corporation, Minneapolis, Minn. Damper control for heat unit. 1,709,193; Apr. 16.
- Scott Cork Decoy Company. (See Scott, Reece L., assignor.)
- Scott, David C., assignor to Henry L. Scott Company, Providence, R. I. Testing machine. 1,714,638; May 28.
- Scott, David J., et al., executors. (See Scott, David J., assignor.)
- Scott, David J., assignor to I. Scott and D. J. Scott, executors of the estate of W. Scott, decedent, doing business as Walter Scott & Company, Plainfield, N. J. Roll-change device. 1,724,225; Aug. 13.
- Scott, David J., assignor to I. Scott and D. J. Scott, executors of the estate of Walter Scott, decedent, doing business as Walter Scott & Company, Plainfield, N. J. Multicolor printing press. 1,738,323; Dec. 3.
- Scott, David J., assignor to I. Scott and D. J. Scott, executors of the estate of Walter Scott, decedent, doing business as Walter Scott & Company, Plainfield, N. J. Multicolor printing press. 1,738,324; Dec. 3.
- Scott, Donald O. (See Loughhead, M., and Scott.)
- Scott, Edward B., trustee. (See Collins, Patrick J., assignor.)
- Scott, Elwin L., et al. (See Marlon, Frank, assignor.)
- Scott, Ephraim J., Boston, assignor to The A. L. Smith Iron Works, Chelsea, Mass. Valveless rotary pump. 1,734,600; Nov. 5.



- Scott, Ernest, Philadelphia, Pa. Garden chair. Des. 80,055; Dec. 3.
- Scott, Ernest E., assignor to Electric Alarm Company, Denver, Colo. Theft alarm or signal for motor-driven vehicles. 1,729,800; Oct. 1.
- Scott, Ernest R. (See Adamson, William L., assignor.)
- Scott, Floyd H., Houston, Tex. Screw-operated valve. 1,702,060; Feb. 12.
- Scott, Floyd L., assignor to Hughes Tool Company, Houston, Tex. Reamer for wells. 1,723,380; Aug. 6.
- Scott, Floyd L., assignor to Hughes Tool Company, Houston, Tex. Producing a hard surface on tools and the like. 1,733,241; Oct. 29.
- Scott, Floyd L., assignor to Hughes Tool Company, Houston, Tex. Shroud for well drills. 1,736,840; Nov. 26.
- Scott, Frank P., San Jose, Calif. Mixer assembly. 1,720,355; July 9.
- Scott, Frederick S., Christchurch, New Zealand. Gas oven. 1,716,534; June 11.
- Scott Furnace Company. (See Scott, Thomas T., assignor.)
- Scott, Glenn A. (See Hampton, E. E., and Scott.)
- Scott, Guy B., Frisco, Pa., assignor of one-half to E. Freshwater, Painesville, Ohio. Tripping mechanism for scoops. 1,717,523; June 18.
- Scott, Guy B., assignor of one-half to E. Freshwater, Painesville, Ohio. Reaction-resisting device for use with power excavators. 1,719,313; July 2.
- Scott, Henry D., Wheeling, W. Va. Tin-plate package. 1,735,548; Nov. 12.
- Scott, Henry L., Company. (See Scott, David C., assignor.)
- Scott, Herbert C., Harding, W. Va. Animated doll. 1,721,577; July 23.
- Scott, Howard B., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Rubbing machine. 1,699,029; Jan. 15.
- Scott, Howard B., assignor to The National Cash Register Company, Dayton, Ohio. Automatic dowel-pin grinder. 1,702,023; Feb. 12.
- Scott, Howard B., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cleaning machine. 1,723,256; Aug. 6.
- Scott, Howard B., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Washing apparatus. 1,731,912; Oct. 15.
- Scott, Howard B., and E. Warner, assignors, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cam-cutting machine. 1,714,926; May 28.
- Scott-Huntington, Humbert T., assignor to Universal Telescope Co. Inc., Harrow, England. Electroscopic apparatus for testing the conductivity of various materials. 1,705,480; Mar. 19.
- Scott, Irving G., and M. C. Fox, New York, N. Y. Wall pot holder. Des. 78,234; Apr. 9.
- Scott, Irving G., and M. C. Fox, New York, N. Y. Wall pot holder. Des. 79,213; Aug. 13.
- Scott, Irving G., and M. C. Fox, New York, N. Y. Flower stand. Des. 79,484; Sept. 24.
- Scott, Isabella, et al., executors. (See Scott, David J., assignor.)
- Scott, J. M., et al. (See Lowance, Samuel A., assignor.)
- Scott, James, Cleveland, Ohio. Cable fitting. 1,714,050; May 21.
- Scott, Jasper P., assignor to Eli Lilly and Company, Indianapolis, Ind. Amniotic fluid and preparing it. 1,699,479; Jan. 15.
- Scott, John E., Long Beach, Calif. Shoe upper. 1,712,633; May 14.
- Scott, John E., Long Beach, Calif. Shoe upper. 1,712,634; May 14.
- Scott, John E., Long Beach, Calif. Shoe lining. 1,712,635; May 14.
- Scott, John L., South Kensington, London, assignor of one-half to Eural Patents Limited, London, England. Signaling switch apparatus for automobiles. 1,721,418; July 16.
- Scott, John M., and W. L. Dayton, Fort Worth, Tex. Combined filling nozzle and whistle. 1,701,311; Feb. 5.
- Scott, John M., and W. L. Dayton, Fort Worth, Tex. Signal for pneumatic tires. 1,726,243; Aug. 27.
- Scott, John W. (See Smith, L., and Scott.)
- Scott, John W., Bisbee, Ariz. Clutch for material carriers. 1,697,824; Jan. 1.
- Scott-Kidwell Jacket Co. (See Kidwell, Grover C., assignor.)
- Scott, Leon H., Los Angeles, Calif. Fence post. 1,720,859; July 16.
- Scott, Lewis L., assignor, by mesne assignments, to Electrol Incorporated, St. Louis, Mo. Oil-burning heating system. Re17,405; Aug. 13.
- Scott, Lewis L., assignor to Electrol, Inc. of Missouri, St. Louis, Mo. Control system for domestic oil burners. 1,708,706; Apr. 9.
- Scott, Louis F. (See Deal, E. T., and Scott.)
- Scott, Louis T., Seattle, Wash. Marine-signal light. 1,735,797; Nov. 12.
- Scott, Marie B., St. Louis, Mo. Bed. 1,724,852; Aug. 13.
- Scott Paper Company. (See Wood, Ralph, assignor.)
- Scott, Reece L., assignor to Scott Cork Decoy Company, Oakland, Calif. Decoy. 1,732,316; Oct. 22.
- Scott, Robert W., Babylon, N. Y. Machine for knitting thickened-wale structures. 1,709,882; Apr. 23.
- Scott, Robert W., deceased, Babylon, N. Y., by C. B. Barnes, Hingham, Mass., C. J. McDermott, Brooklyn, N. Y., and H. G. Reynolds, Boston, Mass., executors, and A. B. Page, Brooklyn; said Scott and said Page, assignors to Scott and Williams, Inc., New York, N. Y. Pattern-control means for knitting machines. 1,713,353; May 14.
- Scott, Rumsey W., Montclair, N. J., assignor to American Cable Company, Inc. Attachment for wire rope and testing same. 1,723,816; Aug. 6.
- Scott, Thomas T., Toronto, Ohio, assignor, by mesne assignments, to Scott Furnace Company, Kansas City, Mo. Furnace. 1,703,460; Feb. 26.
- Scott, Walter, London, Ontario, Canada. Locking device for steering wheels of motor cars. 1,698,008; Jan. 8.
- Scott, Walter, Jeffersonville, Ind., assignor to American Car and Foundry Company, New York, N. Y. Release spring. 1,699,548; Jan. 22.
- Scott, Walter A., River Forest, Ill., and K. A. Prouty, Hermosa Beach, Calif. Charcoal chewing gum. 1,741,589; Dec. 31.
- Scott, Walter, & Company. (See Scott, David J.)
- Scott, Walter, & Company. (See Scott, David J., assignor.)
- Scott, Walter J., Woonsocket, R. I. Electric stop motion for drawing frames. 1,701,127; Feb. 5.
- Scott, Walter J., Woonsocket, R. I. Stop motion for drawing frames. 1,701,128; Feb. 5.
- Scott, Walter J., Woonsocket, R. I. Stop motion for drawing frames. 1,722,769; July 30.
- Scott, Walter M. (See Tresise, Raleigh E., assignor.)
- Scott, Walter M., Lakewood, and R. E. Tresise, Cleveland Heights, Ohio. Electrical measuring instrument. 1,724,734; Aug. 13.
- Scott, Walter W., assignor of one-half to L. J. Stogsdlil, San Francisco, Calif. Radiator cap. 79,310; Aug. 27.
- Scott, William M., Tredyffrin Township, Chester County, Pa. Operating means for circuit-controlling mechanisms. 1,713,629; May 21.
- Scott, William M., Tredyffrin Township, Chester County, Pa. Switch-control system. 1,719,086; July 2.
- Scott, William M., Tredyffrin Township, Chester County, Pa. Electrical switch. 1,725,106; Aug. 20.
- Scott & Williams, Incorporated. (See Allen, John M., assignor.)
- Scott & Williams, Inc. (See Houseman, W. L., and Blaetz, assignors.)
- Scott & Williams, Incorporated. (See Lochhead, Elmer C., assignor.)
- Scott & Williams, Incorporated. (See Page, Albert E., assignor.)
- Scott & Williams, Inc. (See Parquette, Exilias E., assignor.)
- Scott and Williams, Inc. (See Scott, Robert W., assignor.)
- Scott and Williams, Inc. (See Scott, R. W., and Page, assignors.)
- Scott & Williams, Incorporated. (See Williams, Louis N. D., assignor.)
- Scott, Winfield. (See North, C. O., and Scott.)
- Scott, Winfield, assignor to The Rubber Service Laboratories Company, Akron, Ohio. Vulcanizing rubber and product therefrom. 1,703,902; Mar. 5.
- Scott, Winfield, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanized rubber and making the same. 1,721,057; July 16.
- Scott, Winfield, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Manufacture of a substituted guanidine. 1,730,388; Oct. 8.
- Scott, Winfield, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Preparation of a substituted guanidine. 1,730,536; Oct. 8.
- Scott, Winfield, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Manufacture of a substituted guanidine. 1,730,537; Oct. 8.
- Scott, Winfield, Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Vulcanization of rubber. 1,732,486; Oct. 22.
- Scott, Winfield, assignor to The Rubber Service Laboratories Co., Akron, Ohio. Manufacturing derivatives of aldehyde-amine reaction products. 1,737,391; Nov. 26.
- Scottish Dyers, Limited. (See Beckett, E. G., and Thomas, assignors.)
- Scottish Dyes, Limited. (See Smith, W., and Thomas, assignors.)
- Scovell, LuMeda, Los Angeles, Calif. Cushion. 79,576; Oct. 8.
- Scovill, Edward E., Auburn, N. Y. Music educational appliance. 1,704,221; Mar. 5.
- Scovill Manufacturing Company. (See Anderson, George F., assignor.)
- Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)
- Scovill Manufacturing Company. (See Clemmons, Herbert D., assignor.)
- Scovill Manufacturing Company. (See Coryell, Charles N., assignor.)
- Scovill Manufacturing Company. (See Davis, Alvan L., assignor.)
- Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)
- Scovill Manufacturing Company. (See Goss, John H., assignor.)
- Scovill Manufacturing Company. (See Kast, Henry J., assignor.)
- Scovill Manufacturing Company. (See King, George A., assignor.)



- Scovill Manufacturing Company. (See McAtree, John L., assignor.)
- Scovill Manufacturing Company. (See McKnight, R. I., and Reutter, assignors.)
- Scovill Manufacturing Company. (See Moran, Joseph F., assignor.)
- Scovill Manufacturing Company. (See Pasman, Abram N., assignor.)
- Scovill Manufacturing Company. (See Reutter, Frederick, assignor.)
- Scovill Manufacturing Company. (See Reutter, Philip A., assignor.)
- Scovill Manufacturing Company. (See Ruffin, A. F., and Weckle, assignors.)
- Scovill Manufacturing Company. (See Summey, David L., assignor.)
- Scoville, Charles B., jr., Pasadena, Calif. Brake-operating mechanism. 1,735,339; Nov. 12.
- Scoville, Eugene M., Cincinnati, Ohio, assignor of one-half to F. L. Swanberg, Pittsburgh, Pa. Grease-charging apparatus. 1,718,985; July 2.
- Scoville, Eugene M., Cincinnati, Ohio, assignor of one-half to F. L. Swanberg, Pittsburgh, Pa. Multifeed pump. 1,738,735; Dec. 10.
- Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Pittsburgh, Pa. Multifeed pump. 1,722,542; July 30.
- Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to Floyd L. Swanberg, Pittsburgh, Pa. Pump. 1,738,734; Dec. 10.
- Scoville, James D., assignor to S. Morgan Smith Company, Inc., York, Pa. Draft tube. 1,711,907; May 7.
- Scrabeck, Tillman, Harmony, Minn. Harrow hitch. 1,732,989; Oct. 22.
- Scranton, Ernest L., Aurora, Ind. Wrench. 1,716,193; June 4.
- Scranton, Henry O., Lafayette, La. Harvester for sugar canes. 1,726,043; Aug. 27.
- Scranton, Henry O., Lafayette, La. Conveyer. 1,730,479; Oct. 8.
- Scranton, Jewett H. (See George, Harry A., assignor.)
- Scranton Lace Company, The. (See Erhard, Gustave F., assignor.)
- Scriptex Ink & Paste Co. (See Silverthorne, Frank H., assignor.)
- Scriven, Lewis, Brooklyn, N. Y. Annunciator. 1,715,519; June 4.
- Scroggins, Philip, Galt, Ontario, Canada. Hockey boot. 1,708,156; Apr. 9.
- Scroggs, Joseph P., Indianapolis, Ind. Condiment receptacle. Des. 79,106; July 30.
- Scrote, Merle C., Kenmore, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tread-applying device for tire-making machines. 1,728,511; Sept. 17.
- Scrote, Merle C., Kenmore, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-making machine. 1,731,026; Oct. 8.
- Scrote, Merle C., Kenmore, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-making machine. 1,731,027; Oct. 8.
- Scruby, Horace P., Beverly, Calif. Raising oil from wells. 1,703,963; Mar. 5.
- Scruby, Sydney V. C., Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic battery-changing system. 1,733,560; Oct. 29.
- Scruggs, Loyd, University City, Mo. Stove. 1,707,818; Apr. 2.
- Scruggs, Loyd, University City, Mo. Stove lid. 1,728,634; Sept. 17.
- Scullin Steel Co. (See Chiles, George S., assignor.)
- Scullin Steel Company. (See Doerr, Harry E., assignor.)
- Scullin Steel Company. (See Leck, Walter W., assignor.)
- Scullin Steel Co. (See McCullough, Paul J., assignor.)
- Scully Bros. Inc. (See Rodgers, Alfred A., assignor.)
- Scully D. B., Syrup Company. (See Bengel, Joseph B., assignor.)
- Scully, John T., New York, N. Y. Shaving brush. 1,701,961; Feb. 12.
- Scully, John T., New York, N. Y. Motion-translating mechanism. 1,721,093; July 16.
- Scurlock Gear Corporation. (See Fickett, Ernest L., assignor.)
- Scurlock Gear Corporation. (See Scurlock, Lewis H., assignor.)
- Scurlock, Lewis H., Chicago, Ill., assignor to Scurlock Gear Corporation. Differential mechanism. 1,711,546; May 7.
- Sea, Philip N., Chicago, Ill. Automobile steering-post attachment. 1,717,069; June 11.
- Seaberg, Severin, assignor to Harrington-Seaberg Corporation, Moline, Ill. Circuit make-and-break apparatus. 1,700,910; Feb. 5.
- Seaberg, Severin, assignor to Harrington-Seaberg Corporation, Moline, Ill. Circuit-control mechanism. 1,719,563; July 2.
- Seabloom, Andy, Chicago, Ill. Riveting machine. 1,731,063; Oct. 8.
- Seabolt, Bert, New York, N. Y. Liquid-fuel burner. 1,701,218; Feb. 5.
- Seagles, Ernest, Washington, D. C. Tool cabinet for butchers. 1,742,102; Dec. 31.
- Seagraves, Odie R., et al. (See Smith, Harvey S., assignor.)
- Seaholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Axle assembly. 1,697,784; Jan. 1.
- Seaholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Vehicle brake. 1,697,785; Jan. 1.
- Seaholm, Ernest W., assignor to General Motors Corporation, Detroit, Mich. Exhaust-heated intake manifold. 1,713,486; May 14.
- Seaholm, Martin A., Chicago, Ill. Pump and motor. 1,712,935; May 14.
- Seaholm, Martin A., Chicago, Ill. Pump and motor. 1,712,936; May 14.
- Seal, Frank H., and H. Hawkins, Great Falls, Mont. Record-changing mechanism for disk-record sound-reproducing machines. 1,741,040; Dec. 24.
- Seal, Ivan, Oelwein, Iowa. Billiard-table construction. 1,725,215; Aug. 20.
- Sealed Containers Corporation. (See Reilly, Rodolphe R., assignor.)
- Sealed Containers Corporation. (See Stanley, Irving, assignor.)
- Sealey, Percy T., Grand Rapids, assignor to Kelvinator Corporation, Detroit, Mich. Construction for breaking flow of heat through metal. 1,733,753; Oct. 29.
- Seaman Body Corporation. (See Hardtke, Edward J., assignor.)
- Seames, George F. (See Webb, H. E., and Seames.)
- Searcy, William T., Waco, Tex., assignor of one-tenth to F. J. Bedford, sr., Dallas, Tex. Lubricator. 1,707,927; Apr. 2.
- Searing, Eugene P., Hawthorne, N. J. Jacquard-card holder. 1,728,256; Sept. 17.
- Searing, Hudson R. (See Kirke, W. B., and Searing.)
- Searle, George S., Rochester, N. Y. Street sign. 1,697,025; Jan. 1.
- Searle, George S., Rochester, N. Y. Street sign. 1,709,633; Apr. 16.
- Searle, Robert M., Rochester, N. Y. Carbureted-water-gas apparatus. 1,726,317; Aug. 27.
- Searle, Robert M., assignor to Rochester Gas and Electric Company, Rochester, N. Y. Manhole drier and ventilator. 1,700,142; Jan. 29.
- Searle, Russell M., Albany, assignor to Corning Glass Works, New York, N. Y. Mold mechanism for glass-working machines. 1,727,221; Sept. 3.
- Searles, Arthur E. (See Gage, C. H., and Searles.)
- Searles Electric Welding Works. (See Mach, Edward, assignor.)
- Searles, Linn W., et al., trustees. (See Gage, C. H., and Searles, assignors.)
- Searles, Linn W., Washington, D. C. Snubbing device. 1,705,828; Mar. 19.
- Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,718,986; July 2.
- Searls, Edward M. (See Dudley, John E., jr., assignor.)
- Sears, Arthur D., Nashville, Tenn. Awning. 1,716,386; June 11.
- Sears, Fred L., Nicholasville, Ky. Storage battery. 1,699,633; Jan. 22.
- Sears, Maryann D., Los Angeles, Calif. Bedpan. 1,714,572; May 28.
- Sears, Roebuck and Co. (See Bohmker, John C., assignor.)
- Sears, Roebuck and Co. (See Fitch, Charles M., assignor.)
- Sears, Roebuck and Co. (See Oppenheim, Charles, assignor.)
- Sears, Sterling G., Brooklyn, N. Y., assignor to Naylor Radio Corporation. Speed-alarm-control device. 1,705,031; Mar. 12.
- Sease, George E., Caldwell, Idaho. Tire-vulcanizing apparatus. 1,721,094; July 16.
- Seastedt, William E., Chicago, Ill. Shaft bearing. 1,735,881; Nov. 19.
- Seaton, Guy C. (See Blanchard, Adna F., assignor.)
- Seaton, Max Y., Porterville, Calif., assignor to National Kellastone Company, Chicago, Ill. Method of and material for coloring magnesium oxychloride stucco. 1,720,972; July 16.
- Seattle Aerie No. 1, Fraternal Order of Eagles, Inc. (See Mayer, Joseph, assignor.)
- Seattle Astoria Iron Works. (See Pearson, P. E., and Dodge, assignors.)
- Seattle Astoria Iron Works. (See Troyer, Nelson, assignor.)
- Seattle Tent & Awning Company. (See Frank, Albert L., assignor.)
- Seavers, Harold. (See Sagenkahn, B. R., and Seavers.)
- Seavey, Elmer S., Bethlehem, Pa., assignor to Bethlehem Steel Company. Forming splice bars. 1,710,592; Apr. 23.
- Seay, James I. (See Lawlor, J. P., and Seay.)
- Sebastian, Edward, Clayton, Mo. Display holder for paper bags and the like. Des. 79,214; Aug. 13.
- Sebastian Lathe Company, The. (See Schroder, William, assignor.)
- Sebek, Albert, Cicero, assignor to Krone-Sebek Die Casting & Mfg. Co., Chicago, Ill. Automobile radiator cap. Des. 80,056; Dec. 3.
- Sebek, Albert, Cicero, assignor to Krone-Sebek Die Casting & Mfg. Co., Chicago, Ill. Die-casting machine. 1,729,801; Oct. 1.
- Sebell, Harry, Boston, Mass. Telephone-cord take-up. 1,727,978; Dec. 3.
- Sebell, Harry, Boston, assignor to A. H. Parker, Lexington, Mass. Sealing cans. 1,723,304; Aug. 6.
- Sebell, Harry, Boston, assignor to A. H. Parker, Lexington, Mass. Sealed can. 1,724,317; Aug. 13.
- Sebion, Alfred. (See Lange, W. A., and Sebion.)



- Sebranski, Martin E., Racine, Wis. Clothesline support. 1,709,919; Apr. 23.
- Sebrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Manufacture of rubber compositions. 1,732,774; Oct. 22.
- Sebrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Producing accelerators for the vulcanization of rubber. 1,739,486; Dec. 10.
- Sebring, Bert A., and M. Bailey, Denver, Colo. Slip. 1,710,273; Apr. 23.
- Sebring, Charles L., assignor to The Sebring Pottery Company, Sebring, Ohio. Dish. Des. 80,191; Dec. 24.
- Sebring Pottery Company, The. (See Sebring, Charles L., assignor.)
- Sechrist, Roy H., assignor to The Marion Steam Shovel Company, Marion, Ohio. Steering mechanism for power shovels. 1,705,269; Mar. 12.
- Seck, Willy, Augsburg, Germany, assignor to Erba Aktiengesellschaft, Zurich, Switzerland. Manufacture of sulphonated oils, fats, fatty acids, and waxes. 1,734,050; Nov. 5.
- Secondo, Peter, Watsonville, Calif. Apple-paring machine. 1,729,190; Sept. 24.
- Secretary of War and his successors in office, as trustee. (See Wright, Frederick E., assignor.)
- Secretary of War, and his successors in office, in trust for the Government of the United States. (See Hendler, Louis, assignor.)
- Secretary of War of the United States. (See Brayton, Harold M., assignor.)
- Secretary of War of the United States of America. (See Campbell, L. H., jr., and Knox, assignors.)
- Security Manufacturing Company. (See Chambers, Peter, assignor.)
- Security Stove & Mfg. Co., The. (See Blakesley, George W., assignor.)
- Security Trust Company. (See Long, Elmer C., assignor.)
- Security Trust & Savings Bank et al., executor. (See Reynolds, Joseph S.)
- Security Trust & Savings Bank, trustee. (See Pelton, George E., assignor.)
- Sederholm, John E., assignor to The American Hoist & Derrick Co., St. Paul, Minn. Controller. 1,713,559; May 21.
- Sederholm, John E., and F. E. B. Foley, St. Paul, Minn. Urethro-cystoscopic instrument. 1,741,740; Dec. 31.
- Sedgwick, A. E. (See Neilsen, Karl P., assignor.)
- Sedgwick, Charles H. (See Overstall, J. L., and Sedgwick.)
- Sedgwick Charles H., Berkeley, assignor of one-half to J. L. Overstall, El Cerrito, Calif. Telephone. 1,697,575; Jan. 1.
- Sedgwick, Theodore C., New York, N. Y., assignor of two-thirds to T. Fowler, Arlington, N. J. Acoustic device. 1,711,697; May 7.
- Sedlatschek, Richard. (See Renzo, F., and Sedlatschek.)
- Sedlmayr, Robert. (See Kranzlein, G., and Sedlmayr.)
- Sedlmeier, Andrew, Oakland, Calif. Aeroplane. 1,732,570; Oct. 22.
- Sedlmeir, Michael, Mulheim-Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Fuel valve for combustion engines. 1,732,732; Oct. 22.
- Sedlmeir, Michael, Mulheim-Ruhr, Germany, assignor to Holzwarth Gas Turbine Co., San Francisco, Calif. Cooling device for the reversing stator blades of turbines. 1,741,957; Dec. 31.
- Sedwick, Mathew M., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Stack holder and can-end feed therefor. 1,707,928; Apr. 2.
- See, Lee B., Cumberland, Md. Car replacer. 1,735,360; Nov. 12.
- Seebach, Fritz, Erkner, near Berlin, assignor to Bakelite Gesellschaft mit beschränkter Haftung, Berlin, Germany. Purifying phenolformaldehyde resins. 1,697,885; Jan. 8.
- Seebach, Fritz, Erkner, near Berlin, assignor to Bakelite Gesellschaft mit beschränkter Haftung, Berlin, Germany. Manufacturing press masses from phenolformaldehyde resins. 1,720,062; July 9.
- Seebeck, August H., Redwood Falls, Minn. Chain lock. 1,702,418; Feb. 19.
- Seeck, Ferdinand W., Lebanon, Oreg. Differential mechanism. 1,716,565; June 11.
- Seefeld, Otto, Milwaukee, Wis. Combined collapsible bin and elevator. 1,732,487; Oct. 22.
- Seefried, Hermann. (See Heilmann, H., Seefried, Petersen, and Bayerl.)
- Seegar, Edwin W., Wauwatosa, assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor controller. 1,738,155; Dec. 3.
- Seegar, Oscar F., assignor to Cascade Fixture Company, Seattle, Wash. Floor lamp. Des. 79,858; Nov. 5.
- Seeger, Adolph M., assignor to The Seeger Device Company, Toledo, Ohio. Device for handling cable reels. 1,707,028; Mar. 26.
- Seeger, Adolph M., assignor to The Seeger Device Company, Toledo, Ohio. Rod coupling. 1,736,373; Nov. 19.
- Seeger Device Company, The. (See Seeger, Adolph M., assignor.)
- Seeger, Edwin W., South Milwaukee, assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Starting synchronous motors. 1,712,778; May 14.
- Seeger, Edwin W., South Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Motor controller. 1,739,330; Dec. 10.
- Seeger Refrigerator Company, The. (See Anderson, Karl G., assignor.)
- Seek, Roy A. (See Weber, C. J., and Seek.)
- Seelach, Max, Philadelphia County, Pa. Collapsible holder. 1,729,129; Sept. 24.
- Seelbach, John E., assignor to Frank Rapids Hardware Company, Grand Rapids, Mich. Sash-pulley wheel. 1,709,492; Apr. 16.
- Seelen, Mark, Chicago, Ill., assignor to General Outdoor Advertising Co. Inc., New York, N. Y. Sign. 1,699,030; Jan. 15.
- Seeley, Fay L., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Shipping block for automobile tires and rims. 1,739,423; Dec. 10.
- Seeley, Fayette M., assignor to Ideal Power Lawn Mower Company, Lansing, Mich. Lawn-mower attachment for tractors. 1,725,375; Aug. 20.
- Seeley, Frank E., assignor to Abendroth Brothers, Port Chester, N. Y. Attachment for gas ranges. 1,710,433; Apr. 23.
- Seeley, George A., Irvington, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Mixing apparatus. 1,734,747; Nov. 5.
- Seeley, Harold T. (See Bany, H., and Seeley.)
- Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Automatic control system. 1,742,151; Dec. 31.
- Seeley, Harold T., Philadelphia, Pa., assignor to General Electric Company. Control system. 1,699,122; Jan. 15.
- Seelhoff, Robert G. (See Madsen, Abner L., jr., assignor.)
- Seelig, Sigbert, Berlin, Germany. Apparatus for cracking oils. 1,732,664; Oct. 22.
- Seely, Thomas H. (See Jorgensen, J. C., and Seely.)
- Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 1,707,577; Apr. 2.
- Seer, Richard H., Milwaukee, Wis. Combination radio-speaker and electric-light fixture. 1,707,686; Apr. 2.
- Seer, Richard H., Milwaukee, Wis. Combination loud-speaker amplifier and electric-light-fixture support. 1,735,549; Nov. 12.
- Seewer, Paul W., assignor to The English Electric Company, Limited, London, England. Hydraulic turbine. 1,704,223; Mar. 5.
- Sefton Manufacturing Corporation. (See Hoge, Max, assignor.)
- Sefton Manufacturing Corporation. (See Weaver, Josiah A., assignor.)
- Sefton, Richard, Cleveland, Ohio. Pneumatic spring. 1,706,187; Mar. 19.
- Segal Automatic Tweezer Corporation. (See Segal, Samuel, assignor.)
- Segal, George J., Philadelphia, Pa. Apparatus for exhibiting merchandise. 1,699,164; Jan. 15.
- Segal Lock & Hardware Co. (See Dowling, Francis J., assignor.)
- Segal Lock & Hardware Co. (See Segal, Samuel, assignor.)
- Segal, Samuel, New York, N. Y. Key blank. 1,707,642; Apr. 2.
- Segal, Samuel, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Lock. 1,699,757; Jan. 22.
- Segal, Samuel, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Cylinder lock. 1,700,858; Feb. 5.
- Segal, Samuel, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Lock. 1,705,270; Mar. 12.
- Segal, Samuel, assignor to Segal Lock & Hardware Co., Inc., New York, N. Y. Lock cylinder. 1,707,643; Apr. 2.
- Segal, Samuel, assignor to Segal Automatic Tweezer Corporation, New York, N. Y. Tweezers. 1,714,822; May 28.
- Segal, Samuel, assignor, by mesne assignments, to Segal Lock & Hardware Co., Inc., New York, N. Y. Lock. 1,717,942; June 18.
- Segal, Samuel, assignor, by mesne assignments, to Segal Automatic Tweezer Corporation, New York, N. Y. Safety razor and stropping device. 1,718,008; June 18.
- Segal, Samuel, assignor to Segal Automatic Tweezer Corporation, New York, N. Y. Lighter. 1,720,448; July 9.
- Segal, Samuel, assignor to Segal Lock & Hardware Company, Inc., New York, N. Y. Lock. 1,725,543; Aug. 20.
- Segal, Samuel, assignor to Segal Lock & Hardware Company, Inc., New York, N. Y. Cylinder lock. 1,725,544; Aug. 20.
- Segall, Karl B., et al. (See Heath, Forrest A., assignor.)
- Segelken, Herbert C., Phenicia, N. Y. Ventilator for closed automobiles. 1,718,083; June 18.
- Segeiken, Herbert C., Phenicia, N. Y. Spout. 1,718,084; June 18.
- Seger, Earl F. (See Hopkins, R. Z., and Seger.)
- Seghers, Emiel P., Chicago, Ill. Trap. 1,726,127; Aug. 27.
- Seghers, Emiel P., Chicago, Ill. Trap. 1,726,195; Aug. 27.
- Seghers, Emiel P., Chicago, Ill. Trap. 1,726,367; Aug. 27.
- Sehl, Eugene, assignor to Hamilton, Brown Shoe Company, St. Louis, Mo. Shoe-sole trimmer. 1,711,289; Apr. 30.
- Sehmisch, Otto, assignor of one-half to the firm Maschinenfabrik "Rheinland" A.-G., Dusseldorf, Germany. Anti-friction bearing. 1,733,910; Oct. 29.
- Seib, Carl. (See Schumacher, W., and Seib.)
- Seibels, William T. (See Halvorsen, O., and Seibels.)
- Seiberling Rubber Company. (See Goodwin, John O., assignor.)
- Seiberling Rubber Company. (See Pfeiffer, F. B., and White, assignors.)
- Seibert, Carl F. (See Pabst, O., and Seibert.)



- Seibert, Frank T., Ingomar, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Stock guiding and feeding mechanism. 1,713,678; May 21.
- Seibert, Frank T., Ingomar, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Grinding machine. 1,714,246; May 21.
- Seibert, Joseph A., Camden, N. J. Lavatory fixture. 1,723,817; Aug. 6.
- Seibert, Joseph A., Camden, N. J. Portland washstand. 1,732,864; Oct. 22.
- Seibold, Hugo, Glendale, Long Island, N. Y. Casement window. 1,721,641; July 23.
- Seidel, Elmer E., Norristown, Pa. Coin-operated vending machine. 1,731,829; Oct. 15.
- Seidel, John C., Portland, Me. Nozzle for gasoline-filling-station hose. 1,726,044; Aug. 27.
- Seidel, William H., jr., Philadelphia, Pa. Shield for automobiles. 1,722,864; July 30.
- Seidenfaden, Wilhelm. (See Zitscher, A., and Seidenfaden, assignors.)
- Seiders, Irwin A., Reading, Pa. Lubricator. 1,713,924; May 21.
- Seidler, Paul, Anhalt, Germany. Producing big crystals. 1,697,543; Jan. 1.
- Seidman, Sol H., New York, N. Y. Motor vehicle control. 1,729,015; Sept. 24.
- Seifert, Charles H., Barborton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Making conduits. 1,713,881; May 21.
- Seifert, Gloyd L., Holyoke, Colo. Combined starter switch and choke. 1,733,911; Oct. 29.
- Seifert, William V., Denver, Colo. Drill collar. 1,701,897; Feb. 12.
- Seifert, William V., Denver, Colo. Swivel. 1,701,898; Feb. 12.
- Seifert, William V., Denver, Colo. Rotary engine. 1,717,739; June 18.
- Seifert, William V., Denver, Colo. Pump. 1,739,095; Dec. 10.
- Seifert, William V., Denver, Colo. Mud pump. 1,739,096; Dec. 10.
- Seifert, William V., Denver, Colo., assignor, by mesne assignments, to The Universal Rotary Bit Company. Rotary drill bit. 1,723,381; Aug. 6.
- Seigh, Joseph W., Wheeling, W. Va., assignor to Continental Can Company, New York, N. Y. Bail ear for pails. 1,728,257; Sept. 17.
- Seigle, Adolphe A. F. M., Paris, France. Installation and device for the distillation and depolymerization of liquid or liquefiable hydrocarbons. 1,702,275; Feb. 19.
- Seiker, Louis, Brooklyn, N. Y. Support for curtain rods, towel rack etc. 1,727,487; Sept. 10.
- Sell, Gilbert E., Newark, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purification process. 1,701,825; Feb. 12.
- Seller, John, Brooklyn, N. Y. Automatic window latch. 1,711,972; May 7.
- Seller, Michael I., assignor to Keystone Reamer & Tool Co., Millersburg, Pa. Reamer. 1,733,827; Oct. 29.
- Seller, Michael I., assignor to Keystone Reamer and Tool Company, Millersburg, Pa. Reamer. 1,733,912; Oct. 29.
- Sells, Christian J., Coldwater, Mich. Arm-rest device. 1,706,634; Mar. 26.
- Seinsheimer Paper Company, The. (See Johnson, Samuel J., assignor.)
- Seipt, Carl M., assignor of one-half to W. E. Kinsey, Peoria, Ill. Device for oiling mandrel centers. 1,711,752; May 7.
- Seitz, Dale A. (See Aldrich, M. J., Seitz, and Gabbert.)
- Seitz, Eli B., Sterling, Kans. Rotary pick plow. 1,737,179; Nov. 26.
- Seitz, Oskar, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. High-vacuum apparatus. 1,716,507; June 11.
- Seitz, Walter, Baden, Switzerland, assignor to General Electric Company. Regulation of induction-motor cascades. 1,708,850; Apr. 9.
- Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,736,888; Nov. 26.
- Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Device for securing electric appliances to conduit boxes. 1,738,968; Dec. 10.
- Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,738,969; Dec. 10.
- Selah, Howard A., Homewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insert socket for anchor bolts. 1,705,739; Mar. 19.
- Selah, Howard A., Homewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insert for anchor bolts. 1,732,699; Oct. 22.
- Selak, Albert, et al. (See Coatsworth, Caleb S., assignor.)
- Selb, John J. (See Abramowitz, Joseph, assignor.)
- Selbach, John, Topeka, Kans. Mechanism for making cigarettes. 1,724,735; Aug. 13.
- Selby, Roger A., Portsmouth, Ohio. Shoe. Des. 78,489; May 7.
- Selby, Roger A., assignor to The Selby Shoe Company, Portsmouth, Ohio. Shoe. Des. 78,841; June 25.
- Selby, Roger A., assignor to The Selby Shoe Company, Portsmouth, Ohio. Shoe. Des. 79,444; Sept. 17.
- Selby, Roger A., assignor to The Selby Shoe Company, Portsmouth, Ohio. Shoe-shank stiffener. 1,732,951; Oct. 22.
- Selby Shoe Company, The. (See Like, Ernest E., assignor.)
- Selby Shoe Company, The. (See Selby, Roger A., assignor.)
- Selden, Charles. (See Selden, Samuel, assignor.)
- Selden Company, The. (See Canon, Frank A., assignor.)
- Selden Company, The. (See Deutsch, L., and Thorn, assignor.)
- Selden Company, The. (See Fairweather, D. A. W., Beckett, and Thomas, assignors.)
- Selden Company, The. (See Hodge, Frederick A., assignor.)
- Selden Company, The. (See Jaeger, Alphons O., assignor.)
- Selden Company, The. (See Jaeger, A. O., assignor, and Bertsch.)
- Selden Company, The. (See Jaeger, A. O., and Canon, assignors.)
- Selden Company, The. (See Norton, Robert A., assignor.)
- Selden, James M. (See Norton, Robert A., assignor.)
- Selden Research & Engineering Corporation, The. (See Canon, F. A., and Andrews, assignors.)
- Selden Research & Engineering Corporation, The. (See John, K. B., Coslow, and Schwindt, assignors.)
- Selden Research & Engineering Corporation, The. (See Pletzsch, Kurt F., assignor.)
- Selden, Samuel, Huntington Park, Calif., assignor of one-half to S. Selden, Baltimore, Md. Self-lowering jack. 1,706,710; Mar. 26.
- Seldomridge, Harry, assignor of one-half to A. Marietta, Clinton, Ind. Automobile jack. 1,725,216; Aug. 20.
- Selectasine System, Inc. (See Owens, Edward A., assignor.)
- Selective Automatic Manufacturing Corporation. (See Cutler, William C., assignor.)
- Selective Treatment Company Limited et al. (See Rose, Thomas, assignor.)
- Selectograph Company. (See Gollnick, P. A., Ives, Broderick, and Arey, assignors.)
- Selector Corporation, The. (See Worzbach, H. E., and Wadsworth, assignors.)
- Self, Edgar A., Bronxville, N. Y. Railroad-car construction. 1,724,149; Aug. 13.
- Self, Joseph D., Waynesville, N. C. Changeable sign. 1,710,745; Apr. 30.
- Self Locking Schurmann Company. (See Burger, Martin, assignor.)
- Self Locking Schurmann Company. (See Walsh, John E., assignor.)
- Self, Thomas, Crockett, Tex. Cotton-treating machine. 1,724,780; Aug. 13.
- Selfridge, Duncan I., Strafford, Pa. Manifold for internal-combustion engines. 1,723,954; Aug. 6.
- Selhorst, Bernard. (See Oppenheim, T. H., and Selhorst.)
- Selig, Maurice, San Francisco, Calif. Bottle or similar container. Des. 77,711; Feb. 12.
- Seliger, Robert, Philadelphia, Pa. Output control for radio receiving sets. 1,699,028; Jan. 15.
- Seligman, Milton B., Philadelphia, Pa. Newspaper baler. 1,720,449; July 9.
- Seligman, Sely S. (See Hake, E. C., and Seligman.)
- Selgison, William, et al. (See Weiss, Benjamin, assignor.)
- Selje, Frederick A., assignor to Chrysler Corporation, Detroit, Mich. Vehicle body. 1,721,976; July 23.
- Selje, Frederick A., Highland Park, Mich., assignor to The Murray Corporation of America. Seat construction. 1,722,543; July 30.
- Seljesaeter, Kaare S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Alloy and making alloys. 1,722,358; July 30.
- Sell, Helmut, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electrical apparatus for persons defective in hearing. 1,709,747; Apr. 16.
- Sell, Helmut, and B. Langenbeck, Berlin-Siemensstadt, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Telephone apparatus. 1,709,688; Apr. 16.
- Sell, Johann C., Springwells, Mich. Material loading and handling machinery. 1,703,600; Feb. 26.
- Selden, Tor E., assignor to The Union Gas Engine Company, Oakland, Calif. Starting air distributor for Diesel engines. 1,735,414; Nov. 12.
- Sellen, Peter, Seattle, Wash. Preserving fish bait. 1,703,324; Feb. 26.
- Sellers, William, & Company. (See Kneass, Strickland L., assignor.)
- Selligman, Wallace, Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Bathtub. Des. 77,917; Mar. 5.
- Sellinger, Max, and P. Rawdin, Brooklyn, N. Y. Telephone-receiver support. 1,736,841; Nov. 26.
- Sellman, Nils T., New York, N. Y., assignor, by mesne assignments, to Spencer Thermostat Company, Cambridge, Mass. Safety device for burners. 1,711,398; Apr. 30.
- Sellner, Herbert W., Faribault, Minn. Toboggan slide and toboggan. 1,702,091; Feb. 12.
- Sellner, Herbert W., Faribault, Minn. Amusement apparatus. 1,707,687; Apr. 2.
- Sellner, Herbert W., Faribault, Minn. Amusement ride. 1,737,032; Nov. 26.
- Sells, John, Seattle, Wash. Felling axe. 1,729,365; Sept. 24.
- Sellwood, Richard M. (See Paul, Julius, assignor.)
- Seltnor, Wilhelm, Schlan, Czechoslovakia. Actuating mechanism for vibratory apparatus. 1,726,630; Sept. 3.
- Selvig, John N., Chicago, Ill. Method of and apparatus for treating fibrous material. 1,718,587; June 25.



- Selvig, John N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working fibrous material. 1,720,750; July 16.
- Selway, Edward B., Leetsdale, Pa. Collapsible building form. 1,703,499; Feb. 26.
- Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Electrode for electric furnaces. 1,723,582; Aug. 6.
- Sem, Mathias O., Buffalo, N. Y., and C. W. Söderberg, assignors to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Manufacture of electrodes. 1,735,936; Nov. 19.
- Semack, Sylvain, Constantinople, Turkey. Closing device for containers. 1,713,354; May 14.
- Sembra, Frank, Flatonia, Tex. Tractor. 1,710,116; Apr. 23.
- Sembower, Charles A., Wilkinsburg, Pa. Window shade. 1,725,807; Aug. 20.
- Semenza, Marco, Milan, and S. and M. Mazza and L. Bolledi, Carpaneto, Italy. System of electric plowing by direct traction. 1,733,242; Oct. 29.
- Semer & Co. G. m. b. H. (See Reimann, Otto, assignor.)
- Semet-Solvay Company. (See Osborne, Fred, assignor.)
- Semet-Solvay Company. (See Torrey, B., jr., and Sanford, assignors.)
- Semet-Solvay Engineering Corporation. (See Tweit, Olav, assignor.)
- Semitire Company Inc. (See Shoemaker, Alvin H., assignor.)
- Semmes, Harry H. (See Dake, W. M., and Walter, assignors.)
- Semon, Waldo L., Cuyahoga Falls, and A. W. Sloan, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for adhesively applying tubular linings to metal pipes and the like. 1,721,838; July 23.
- Semotan, Frank J., Tama, Iowa. Fruit jar. 1,737,436; Nov. 26.
- Simple, Charles E., jr., Youngstown, assignor to Claravox, Inc., Canton, Ohio. Loud-speaker and sound-reproducing unit. 1,718,009; June 18.
- Simple, James A., Chicago Ill. Fuel vaporizer for explosive engines. 1,724,521; Aug. 13.
- Sendlacek, Fred J., Lambert, Mont. Tire-mending apparatus. 1,715,431; June 4.
- Sendlinger Optische Glaswerke G. m. b. H. (See Eckert, Fritz, assignor.)
- Séné, Robert, Paris, France. Movable platform. 1,718,085; June 18.
- Seneca Falls Machine Co. (See King, Nathaniel, assignor.)
- Seneca Falls Machine Co. (See Smith, E. R., and Ashton, assignors.)
- Senesac, Telesphore J., Chicago, Ill. Anchor for floor sleepers. 1,699,813; Jan. 22.
- Senese, Ralph F., Brooklyn, N. Y. Toilet-accessory container. Des. 79,673; Oct. 22.
- Seng Company, The. (See Fox, Martin, assignor.)
- Sengbusch, Gustav J., Milwaukee, Wis. Combination desk stand and penholder. Des. 80,143; Dec. 17.
- Sengbousch, Hans, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Dashpot relay. 1,706,188; Mar. 19.
- Sengebusch, Hans, Villa Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Switch mechanism. 1,737,807; Dec. 3.
- Senger, Richard W. (See MacKenzie, J. D., and Senger.)
- Sengstaken, William, Brooklyn, N. Y. Drill. 1,700,241; Jan. 29.
- Senn, Arthur L. (See Dalin, D., and Senn.)
- Senn, Daniel R., Augusta, Ga, assignor to The Terrell Machine Company, Charlotte, N. C. Bobbin-cleaning machine. 1,711,429; Apr. 30.
- Sensenbaugh, Delmond, Bloomington, Ill. Grain-cracking machine. 1,740,787; Dec. 24.
- Sensibar, Jacob R., Chicago, Ill. Pump connection. 1,712,312; May 7.
- Sensibar, Jacob R., Chicago, Ill. Unloading boom for ships and support therefor. 1,720,450; July 9.
- Sensibar, Jacob R., Chicago, Ill. Centrifugal pump. 1,737,340; Nov. 26.
- Sensibar, Jacob R., Chicago, Ill. Mixing well for unloading sand boats and the like. 1,737,341; Nov. 26.
- Sensibar, Jacob R., Chicago, Ill. Unloading boom for ships and turntable therefor. 1,737,342; Nov. 26.
- Sensibar, Jacob R., Chicago, Ill. Unloading mechanism for ships. 1,737,343; Nov. 26.
- Sensible Heat Distillation Limited. (See Nielsen, H., and Laing, assignors.)
- Sensow, Anton C., assignor to U. S. Slicing Machine Company, La Porte, Ind. Sharpener for slicing machines. 1,727,488; Sept. 10.
- Sentell, C. Frank. (See Darby, Edward L., assignor.)
- "Sentinel" Wagon Works Limited, The. (See Alley, S. E., and Hutt, assignors.)
- Sentry Company, The. (See Crocker, Percival B., assignor.)
- Sentry Safety Control Corporation. (See Allen, T. T., Adams, and Dunn, assignors.)
- Sentry Safety Control Corporation. (See Feeney, T. L., and Godoy, assignors.)
- Seppman, William E., Lake Crystal, Minn. Knee-operated throttle control. 1,735,508; Nov. 12.
- Septant, William T., Norwood, Ohio. Tableware washer. 1,715,100; May 28.
- Serebrianoi, Moisey M., Saltykovka, Union of Socialist Soviet Republics, Russia. Paper manufacturing. 1,724,522; Aug. 13.
- Serebrianoi, Moisey M., Saltykovka, Union of Socialist Soviet Republics, Russia. Plastic composition. 1,724,523; Aug. 13.
- Serelco, Inc. (See Serrell, Lemuel W., assignor.)
- Seren, Morris, Melrose Park, Ill. Internal-combustion engine. 1,725,545; Aug. 20.
- Serfix Serviettenhalter Fabrik Conradt & Co. (See Kessel, Johann, assignor.)
- Sergeeff, George, Detroit, Mich. Tool arrangement. 1,703,549; Feb. 26.
- Sergent, Walter H., Middletown, N. Y., assignor to Ideal Wrapping Machine Co. Sucker-impaling machine. 1,735,621; Nov. 12.
- Sergeson, Allan M., Roslyn, Pa. Shuttle. 1,729,524; Sept. 24.
- Sergeson, Charles H., Philadelphia, Pa. Shuttle. 1,728,083; Sept. 10.
- Serpe Brothers. (See Noto, Giovanni, assignor.)
- Seria y Pérez, Manuel, Habana, Cuba. Tackle to support scaffolds or similar devices. 1,736,723; Nov. 19.
- Serrell, John J., et al. (See Short, Frank, assignor.)
- Serrell, Lemuel W., assignor to Serelco, Inc., New York, N. Y. Broiler grid. 1,712,474; May 7.
- Serrell, Lemuel W., assignor to Serelco, Inc., New York, N. Y. Broiler. 1,713,303; May 14.
- Sersté, Jacques E., Brussels, Belgium. Window-operating apparatus. 1,720,063; July 9.
- Serva, Adam A., assignor to The United Electric Company, Canton, Ohio. Attachment for vacuum cleaners. 1,708,282; Apr. 9.
- Servais, Chris, Sioux City, Iowa, and F. Kazmer, South Sioux City, Nebr. Journal oiler. 1,736,374; Nov. 19.
- Servault, Alfred M., Paris, and A. L. J. Gérard, Servas, France. Vehicle. 1,699,031; Jan. 15.
- Servel, Inc. (See Collins, William D., assignor.)
- Servel, Inc. (See Collins, W. D., and Widerborg, assignors.)
- Servel, Inc. (See Thatcher, Welling F., assignor.)
- Servel, Inc. (See Williams, Edward T., assignor.)
- Service Bureau, Inc. (See Dawson, George H., assignor.)
- Service Manufacturing Company. (See Wilson, G. B., and Eagley, assignors.)
- Service Steel Products Corporation. (See Eichenlaub, Raymond J., assignor.)
- Servidor Company, The. (See Matchette, Frank J., assignor.)
- Servo Paper Corporation. (See Morris, Elmer C., assignor.)
- Séry, Claude, Aix-en-Provence, France. Circular-weaving loom. 1,720,151; July 9.
- Sessinghaus, Johannes, Berlin-Charlottenburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Connecting booster transformers. 1,700,600; Jan. 29.
- Sessinghaus, Johannes, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y. Protective system for transmission lines. 1,715,679; June 4.
- Sessions, Arthur J., London, England. Burner for gaseous and liquid fuels. 1,720,761; July 16.
- Sessions Clock Company, The. (See Mazur, Samuel, assignor.)
- Sessions Foundry Company, The. (See Redmann, Robert G., assignor.)
- Sessions, Frank L., Lakewood, Ohio. Method of and apparatus for electric welding. 1,732,383; Oct. 22.
- Sessions, Frank L., Lakewood, Ohio, assignor to Steel and Tube, Inc., Cleveland, Ohio. Tube-welding machine. 1,722,711; July 30.
- Sessler, Helene, Mannheim, assignor to C. F. Boehringer & Soehne G. m. b. H., Mannheim-Waldhof, Germany. Making cellulose ethers. 1,704,304; Mar. 5.
- Sesti, Ferdinand, assignor to Kaufmann Department Stores, Inc., Pittsburgh, Pa. Presenting composite designs. 1,738,398; Dec. 3.
- Seth, George. (See Geisler, Otto, assignor.)
- Seth, John F., Helena, Mont. Valve tool. 1,699,123; Jan. 15.
- Sethness, C. H., et al. (See Hershman, Paul R., assignor.)
- Setoh, Shoji, Tokyo, and S. Ueki, deceased, by U. Ueki, Oaza, administratrix, assignors to Zaidan Hojin Rikazaku Kenkyujo, Tokyo, Japan. Forming an electrically insulating and anticorrosive oxide coating on aluminum material. 1,735,509; Nov. 12.
- Sette, Friederick, Detroit, Mich. Air-inlet attachment for combustion chambers. 1,715,516; June 4.
- Settegast, Bernhard. (See Hahnemann, W., Hecht, and Settegast.)
- Settegast, Bernhard. (See Schmidt, G., and Settegast.)
- Setterberg, Carl, et al. (See Westgaard, Juul M., assignor.)
- Setterlund, Wilhelm, Winnipeg, Manitoba, Canada. Saw set. 1,739,656; Dec. 17.
- Setters, Josiah, Rockland, Idaho. Traffic signal for automobiles. 1,708,742; Apr. 9.
- Settles, Simon G., assignor to Argo Manufacturing Co., Seattle, Wash. Sink strainer. 1,706,000; Mar. 19.
- Setvate, Bernard G., Indianapolis, Ind. Liquid containing combination compact. 1,736,724; Nov. 19.
- Setzer, Rudolf, Trudering, near Munich, Germany. Appliance for opening fiber bundles. 1,740,439; Dec. 17.



- Seufert, Anthony, Albuquerque, N. Mex. Sound amplifier. 1,727,136; Sept. 3.
- Seume, Herman A., assignor of one-third to P. B. Bentz and one-third to W. A. Weigel, Omaha, Nebr. Street-intersection traffic mirror. 1,699,926; Jan. 22.
- Seurynek, Anthony, Marine City, Mich. Towrope coupling. 1,698,027; Jan. 8.
- Severance, Abel W., Donald, Wash. Drag for irrigation ditches. 1,727,253; Sept. 3.
- Severns, Clayton. (See Hicks, J. N., and Severns.)
- Severson, Melvin G., Barron, Wis. Dry-milk pulverizer. 1,713,719; May 21.
- Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Adjustable counter-bore. 1,702,485; Feb. 19.
- Severson, Ole, Shelton, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Tool holder with top lock. 1,734,502; Nov. 5.
- Severson, Severt G., South Sioux City, Nebr. Wireless corn planter. 1,717,415; June 18.
- Severud, Fridtjof, Flushing, and B. Myers, New York, N. Y. Floor construction. 1,732,070; Oct. 15.
- Severy, Melvin L., assignor to The Vocalservo Company, Los Angeles, Calif. Producing synthetic timbre effects. 1,733,630; Oct. 29.
- Sevier, Lyman C., Ashville, N. C. Lunch-counter seat. 1,716,327; June 4.
- Séviné, Henri A., Winthrop, Mass., and C. E. Jacobs, Nashua, N. H., assignors to National Bread Wrapping Machine, Boston, Mass. Wrapping machine. 1,734,351; Nov. 5.
- Seward, Edward A., and N. G. Martiniere, assignors to National Bus Directory Co., Inc., Columbus, Ga. Display apparatus. 1,705,422; Mar. 12.
- Seward, Edwin C. (See Alexander, Carl Z. and E. S., assignors.)
- Seward, Ernest R. (See Kern, F. M., and Seward.)
- Seward, Ernest R., assignor to Lehmann Machine Company, St. Louis, Mo. Lathe-carriage feed mechanism. 1,705,545; Mar. 19.
- Seward, Ernest R., assignor to Lehmann Machine Company, St. Louis, Mo. Apron mechanism for lathes. 1,714,320; May 21.
- Sewell, Benjamin F. B., Chula, Va. Automotive truck attachment. 1,722,061; July 23.
- Sewell, Herbert J., and V. Y. Tallberg, Detroit, Mich. Steering wheel. 1,729,016; Sept. 24.
- Sewell, John C. (See Baldwin, Eldon W., assignor.)
- Sewell, Oliver A., Coweta, Okla. Casing shoe. 1,727,222; Sept. 3.
- Sewerin, Hermann, Gutersloh, Germany. Gas indicator. 1,721,977; July 23.
- Sexton Can Company. (See Sexton, George A., assignor.)
- Sexton, Edward J., Indianapolis, Ind. Railroad crossing. 1,737,482; Nov. 26.
- Sexton, George A., Winchester, assignor to Sexton Can Company, Incorporated, Everett, Mass. Sheet-metal barrel. 1,733,243; Oct. 29.
- Sexton Mfg. Company. (See Bowman, Louis G., assignor.)
- Sexton, Thomas F., Baltimore, Md. Latch link for chains. 1,722,159; July 23.
- Seybert, Andrew, Bradys Bend, Pa. Running gear for motor vehicles. 1,705,881; Mar. 19.
- Seybold, Charles, assignor to The Harris-Seybold-Potter Company, Dayton, Ohio. Paper-cutting machine. 1,729,688; Oct. 1.
- Seybold, Charles, assignor to The Seybold Machine Company, Dayton, Ohio. Safety stopping device. 1,741,439; Dec. 31.
- Seybold, James A. G., Kansas City, Mo. Card game. 1,709,634; Apr. 16.
- Seybold Machine Company, The. (See Seybold, Charles, assignor.)
- Seyfert, Adam. (See Lier, Fred B., assignor.)
- Seyl, Joseph C., Chicago, Ill. Filing device. 1,741,119; Dec. 24.
- Seyler Manufacturing Company. (See Lundell, Elmer W., assignor.)
- Seymer, Vivian H., London, England. Automatic phonograph. 1,709,748; Apr. 16.
- Seymour, Benjamin F., Washington, D. C. Shock-absorbing transmission. 1,719,382; July 2.
- Seymour, Charles H., Kansas City, Mo. Radio static-eliminating apparatus. 1,719,087; July 2.
- Seymour, Charles H., Kansas City, Mo. Magnetizable element and treating same. 1,719,564; July 2.
- Seymour, James M., Newark, N. J. Cooling tower. 1,739,867; Dec. 17.
- Seymour, Merrill W., assignor to Eastman Kodak Company, Rochester, N. Y. System for color photography. 1,708,370; Apr. 9.
- Seymour, Merrill W., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for photographic color process. 1,708,371; Apr. 9.
- Seymour & Peck Co. (See Arnold, Charles B., assignor.)
- Seymour, Ralph C., Short Hills, N. J. Sheet-delivery mechanism. 1,700,776; Feb. 5.
- Seymour, William A., assignor to The Hesse Manufacturing Company, Leavenworth, Kans. Grinding mill. 1,730,300; Oct. 1.
- Seymour, William I., West Barrington, and L. J. Shanahan, assignors to Franklin Machine Company, Providence, R. I. Let-off for looms. 1,729,130; Sept. 24.
- Sferrazza, Giuseppe, Unionville, Conn. Garment. 1,740,272; Dec. 17.
- Sfris, George, Beaumont, Tex. Key-ring holder. Re17,450; Oct. 1.
- Sfris, George, Beaumont, Tex. Key-ring holder. 1,698,028; Jan. 8.
- Shaak, George S., Avon, Pa. Pipe reamer. 1,704,631; Mar. 5.
- Shackleton, Samuel P., Wyoming, N. J., assignor to American Telephone and Telegraph Company. Signaling circuits for repeaters. 1,697,933; Jan. 8.
- Shackleton, William. (See Hammond, C. F., and Shackleton.)
- Shadduck, Guy A., Eugene, Oreg. Paper-filing punch. 1,714,192; May 21.
- Shadel, Walter H., Poplin, Mo. Traffic signal. Des. 77,712; Feb. 12.
- Shadex Company, The. (See Hammond, Karl R., assignor.)
- Shadley, Bert, and W. A. Forrest, Santa Monica, Calif. Combination broiler and toaster. 1,729,552; Sept. 24.
- Shadrick, Richard H., assignor to A. E. Carlsen, Minneapolis, Minn. Valve actuator. 1,698,281; Jan. 8.
- Shaeffer, Clarence D., Hutchinson, Minn. Map holder. 1,714,639; May 28.
- Shaeffer, Edward J. (See Rogers, F. M., and Shaeffer.)
- Shafer, John A., et al. (See Cook, William A., assignor.)
- Shafer, John J. (See Collings, W. R., and Shafer.)
- Shafer, Samuel, jr., Milwaukee, Wis. Loading skip. 1,723,447; Aug. 6.
- Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Water-tank-discharge mechanism. 1,724,427; Aug. 13.
- Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Bucket and boom conveying and distributing mechanism. 1,729,553; Sept. 24.
- Shafer, Samuel, jr., assignor to Chain Belt Company, Milwaukee, Wis. Bucket and boom conveying and distributing mechanism. 1,732,207; Oct. 15.
- Shaff, Ernest H., assignor to Wm. H. Keller, Inc., Grand Haven, Mich. Portable tool. 1,698,970; Jan. 15.
- Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Pressure-fluid-operated tool. 1,707,325; Apr. 2.
- Shaff, Ernest H., assignor to Wm. H. Keller, Inc., Grand Haven, Mich. Making piston rods. 1,719,243; July 2.
- Shaff, Ernest H., assignor to William H. Keller, Inc., Grand Haven, Mich. Holder for pressure-fluid-operated tools. 1,729,131; Sept. 24.
- Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Governor for pressure-fluid-operated tools. 1,740,669; Dec. 24.
- Shaff, Ernest H., and G. Briegel, assignors to William H. Keller, Inc., Grand Haven, Mich. Pressure-fluid-operated tool. 1,709,159; Apr. 16.
- Shaffer, Benjamin, assignor to Dominion Electrical Mfg. Company, Minneapolis, Minn. Electrical cooking appliance. 1,718,260; June 25.
- Shaffer, Charles H., assignor to A. S. Trott, Muskegon, Mich. Lawn sprinkler. 1,730,248; Oct. 1.
- Shaffer, Ernest J., Tulsa, Okla. Safety hook. 1,709,234; Apr. 16.
- Shaffer, Ernest J., Tulsa, Okla. Connecting device. 1,709,235; Apr. 16.
- Shaffer, Ernest J., Tulsa, Okla. Combination sucker rod and box socket. 1,729,494; Sept. 24.
- Shaffer, Ernest J., Tulsa, Okla. Sucker-rod elevator. 1,737,029; Nov. 26.
- Shaffer, Glenn A., assignor to Fort Howard Paper Company, Green Bay, Wis. Dispenser for napkins and the like. 1,707,578; Apr. 2.
- Shaffer, Glenn A., assignor to Fort Howard Paper Company, Green Bay, Wis. Package of interfolded sheets. 1,707,581; Apr. 2.
- Shaffer, Glenn A., assignor to Fort Howard Paper Company, Green Bay, Wis. Paper-roll package. 1,726,927; Sept. 3.
- Shaffer, Glenn A., and F. H. Wirtz, assignor to Fort Howard Paper Company, Green Bay, Wis. Machine for wrapping cylindrical objects. 1,702,276; Feb. 19.
- Shaffer, Glenn A., and F. H. Wirtz, assignors to Fort Howard Paper Company, Green Bay, Wis. Napkin-dispensing device. 1,702,983; Feb. 19.
- Shaffer, Glenn A., and F. H. Wirtz, assignors to Fort Howard Paper Company, Green Bay, Wis. Folding machine. 1,707,579; Apr. 2.
- Shaffer, Glenn A., and F. H. Wirtz, Green Bay, Wis. Machine for interfolding sheets. 1,707,580; Apr. 2.
- Shaffer, Helen L., Chicago, Ill. Catamenial band. 1,708,904; Apr. 9.
- Shaffer, John E., Tulsa, Okla. Gauge cock. 1,705,740; Mar. 19.
- Shaffer, John H., Palmyra, N. J., and P. Caparelli, Norristown, Pa. Knitting machine. 1,712,052; May 7.
- Shaffer, Larkin R., Garland, Utah. Switch stand. 1,732,285; Oct. 22.
- Shaffer, Larkin R., Garland, Utah. Switch-stand lock. 1,739,868; Dec. 17.
- Shaffer, Larkin R., Garland, Utah. Switch stand. 1,739,869; Dec. 17.
- Shaffer, Ralph W., et al. (See Booth, Levis, M., assignor.)
- Shaffer, William D., Brea, Calif. Flow nipple. 1,698,826; Jan. 15.
- Shaffer, William D., Brea, Calif. Rod grip. 1,735,937; Nov. 19.
- Shafar, Ralph W., Denver, Colo. Effecting a reaction between sucrose and quicklime. 1,713,925; May 21.
- Shafar, Ralph W., A. R. Nees, and R. J. Brown, Denver, Colo. Precipitation apparatus. 1,708,332; Apr. 9.



- Shafor, Ralph W., Denver, Colo., assignor to Gilchrist & Company, Chicago, Ill. Mixing apparatus and process. 1,701,164; Feb. 5.
- Shaft-Pierce Shoe Company. (See Shaft, Willis S., assignor.)
- Shaft, Willis S., assignor to Shaft-Pierce Shoe Company, Faribault, Minn. Presser foot. 1,733,828; Oct. 29.
- Shahan, John L., Chicago, Ill. Crutch. 1,733,430; Oct. 29.
- Shahbender, Albert, Astoria, N. Y. Interchangeable heel for shoes. 1,709,749; Apr. 16.
- Shakeproof Lock Washer Company. (See Gribbie, John M., assignor.)
- Shakeproof Lock Washer Company. (See Olson, Carl G., assignor.)
- Shakeproof Lock Washer Company, Incorporated, Division of Illinois Tool Works. (See Olson, Carl G., assignor.)
- Shaler, Saul, assignor to H. B. Cohen, New York, N. Y. Straight-handled vibratory razor. 1,716,387; June 11.
- Shaler, Saul, assignor to The Electric Safety Razor Corporation of America, New York, N. Y. Electric cord connector. 1,731,274; Oct. 15.
- Shallenberger, William F., Atlanta, Ga. Weather shield for automobiles. 1,704,994; Mar. 12.
- Shallock, Edward W., assignor to American Ore Reclamation Company, Chicago, Ill. Grate and pallet structure. 1,722,344; July 30.
- Shambow Shuttle Company. (See Fuller, Emil E., assignor.)
- Shampay, Pascal J., Chicago, Ill. Carpet-cleaning machine. 1,738,541; Dec. 10.
- Shanahan, Benedict F., Chicago, Ill. Golf bag. 1,715,101; May 28.
- Shanahan, Louis J. (See Seymour, W. L., and Shanahan.)
- Shanck, Roy B., Flushing, N. Y., assignor to American Telephone and Telegraph Company. Telegraph system. 1,707,997; Apr. 9.
- Shanck, Roy B., Flushing, N. Y., assignor to American Telephone and Telegraph Company. Telegraph system. 1,732,286; Oct. 22.
- Shanck, Roy B., Woodside, N. Y., assignor to American Telephone and Telegraph Company. Indicating frequency changes. 1,711,101; Apr. 30.
- Shand, Errol B. (See Zworykin, V. K., and Shand.)
- Shand, Errol B., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mercury-pump system. 1,702,419; Feb. 19.
- Shand & Jurs Company. (See Shand, Reginald C., assignor.)
- Shand, Reginald C., Piedmont, assignor, by mesne assignments, to Shand & Jurs Company, Berkeley, Calif. Hose rack. 1,702,919; Feb. 19.
- Shangle, Amos H., Roselle, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph printer. 1,719,489; July 2.
- Shank, Keller, Burlington, N. J. Power-transmission device. 1,736,291; Nov. 19.
- Shank, McConnell, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hollow float. 1,714,733; May 28.
- Shank, Victor Co., Fort Monroe, Va. Power-transmission means. 1,703,407; Feb. 26.
- Shanklin, Aleck A., Fairmont, Nebr. Rope guide for extruding machines. 1,734,832; Nov. 5.
- Shanks, John S., assignor to The Canton Clothes Dryer Company, Canton, Ohio. Electric clothes drier. 1,702,009; May 7.
- Shanley, William C., Des Moines, Iowa. Loading and unloading device for tank cars. 1,739,525; Dec. 17.
- Shann, Oscar A., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Testing device. 1,724,973; Aug. 20.
- Shannon, Carl W., Jerome, Ark. Stalk remover. 1,733,913; Oct. 29.
- Shannon, Derek S. B., Sutton Coldfield, England. Receiving apparatus for wireless telegraphy and telephony. 1,711,399; Apr. 30.
- Shannon, Edward J. (See Frary, Robert S., assignor.)
- Shannon, Henry. (See Shannon, John and H.)
- Shannon, James C., Kansas City, Kans. Semiautomatic bleeder-valve control. 1,729,132; Sept. 24.
- Shannon, James L., assignor to Blake Manufacturing Co., Springfield, Mass. Flash light. 1,738,122; Dec. 3.
- Shannon, Jesse P., Lake Geneva, Wis. Fish lure. 1,734,883; Nov. 5.
- Shannon, Jesse P., Lake Geneva, Wis. Fishing lure. 1,740,273; Dec. 17.
- Shannon, John and H., Florence, Mass. Automatic electric-circuit make and break device. 1,734,233; Nov. 5.
- Shannon, Richard S., et al. (See Mace, Charles E., assignor.)
- Shapan, Henry, Brooklyn, N. Y. Commutator-truing device. 1,712,053; May 7.
- Shapio, Joseph, Baltimore, Md. Ice-cream cone. Des. 77,625; Jan. 29.
- Shapiro, Abraham, Chicago, Ill. Window-cleaning device. 1,710,079; Apr. 23.
- Shapiro, Benjamin H., Brooklyn, N. Y. Ornamental lamp shade and making same. 1,710,516; Apr. 23.
- Shapiro, Harry, New York, N. Y. Lamp. Des. 79,533; Oct. 1.
- Shapiro, Henry, Philadelphia, Pa. Lighter. 1,699,861; Jan. 22.
- Shapiro, Henry, Philadelphia, Pa. Lighter. 1,740,628; Dec. 24.
- Shapiro, Hyman, Brooklyn, assignor to The M. Propp Co. Inc., New York, N. Y. Electric socket. 1,733,470; Oct. 29.
- Shapiro, Lazarus, New York, N. Y., assignor to Freed-Eisemann Radio Corporation, Brooklyn, N. Y. Suspension for cone loud-speakers. 1,707,283; Apr. 2.
- Shapiro, Lazarus, New York, assignor to Freed-Eisemann Radio Corporation, Brooklyn, N. Y. Electromagnetically-operating loud-speaking device. 1,720,008; July 9.
- Shapiro, Michael, Brooklyn, N. Y. Window stop. 1,741,252; Dec. 31.
- Shapiro, Philip, Los Angeles, Calif. Lubricator indicator. 1,706,001; Mar. 19.
- Shapiro, Samuel, Brooklyn, N. Y. Dyeing machine. 1,727,414; Sept. 10.
- Shaps, Benjamin, New York, N. Y. Globe hanger for lighting fixtures. 1,714,961; May 28.
- Shardlow, Harry, assignor to Solar Lighting Fixture Co., Los Angeles, Calif. Lighting fixture. 1,730,693; Oct. 8.
- Sharon Steel Hoop Company. (See Schwab, Charles T., assignor.)
- Sharp, Charles E., and C. A. Strachota, Mexico, Mo., assignors, by mesne assignments, to Bigelow-Liptak Corporation, Detroit, Mich. Furnace wall. 1,712,849; May 14.
- Sharp, Clayton H., White Plains, C. Kinsley, Scarsdale, and E. D. Doyle, Pleasantville, N. Y. Photo-electric photometer. 1,726,318; Aug. 27.
- Sharp & Dohme, Inc. (See Dohme, Alfred R. L., assignor.)
- Sharp and Dohme, Inc. (See Hirzel, Hermann, assignor.)
- Sharp, Frederick E., Prescott, Wash. Steering gear. 1,704,766; Mar. 12.
- Sharp, Grady L., Orange, Va. Pneumatic-tire pump. 1,737,062; Nov. 26.
- Sharp, Jefferson M., assignor to National Transit Pump & Machine Co., Oil City, Pa. Pump cylinder and mount therefor. 1,726,415; Aug. 27.
- Sharp, John, Cleveland, Ohio. Sifter. 1,704,107; Mar. 5.
- Sharp, John C., Chattanooga, Tenn. Hollow lubricating shaft. 1,716,983; June 11.
- Sharp, John C., assignor to National Oil Lubricating Company, Chattanooga, Tenn. Lubricator. 1,737,344; Nov. 26.
- Sharp, John E., Milwaukee, Wis. Hygroscopic pad and holder for confection jars. 1,698,320; Jan. 8.
- Sharp, John E., assignor to Panay Horizontal Show Jar Company, Milwaukee, Wis. Rotary display stand. 1,728,512; Sept. 17.
- Sharp, Nelson T., Memphis, Tenn. Self-serving store. 1,717,123; June 11.
- Sharp, Robert E. B., Philadelphia, Pa., assignor to I. P. Morris Corporation. Adjustable vane runner. 1,716,328; June 4.
- Sharp & Smith. (See Sloan, Edwin P., assignor.)
- Sharp & Smith, Inc. (See Holdick, C. E., and Keller, assignors.)
- Sharp, Thomas C., Los Angeles, Calif. Garage-door-opening device. 1,740,877; Dec. 24.
- Sharp, Walter C., Dallas, Tex. Device for regulating the closing of doors. 1,699,758; Jan. 22.
- Sharp, William L., assignor to The Ohio Foundry & Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 78,787; June 18.
- Sharp, William L., assignor to The Ohio Foundry & Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 78,788; June 18.
- Sharp, William L., assignor to The Ohio Foundry & Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 78,789; June 18.
- Sharp, William L., assignor to The Ohio Foundry & Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 78,790; June 18.
- Sharp, William L., assignor to The Ohio Foundry & Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 78,791; June 18.
- Sharp, William L., assignor to The Ohio Foundry & Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 78,792; June 18.
- Sharp, William L., assignor to The Ohio Foundry & Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 78,793; June 18.
- Sharpe, Thomas E. (See Coleman, C. E., Whittaker, and Sharpe.)
- Sharples, David T., assignor to The Sharples Separator Company, West Chester, Pa. Centrifugal cream separator. 1,710,593; Apr. 23.
- Sharples, David T., assignor to The Sharples Separator Company, West Chester, Pa. Cream separator. 1,719,522; July 2.
- Sharples Separator Company, The. (See Sharples, David T., assignor.)
- Sharples, Sherman S. (See Booth, J. C., and Sharples.)
- Sharples Specialty Company, The. (See Ayres, Arthur U., assignor.)
- Sharples Specialty Company, The. (See Ayres, E. E., jr., and Clark, assignors.)
- Sharples Specialty Company, The. (See Bath, Wilmer H., assignor.)
- Sharples Specialty Company. (See Clark, Lee H., assignor.)
- Sharples Specialty Company, The. (See Jones, Leo D., assignor.)
- Sharples Specialty Company, The. (See Jones, L. D., and Ayres, assignors.)



- Sharpsteen, Stephen H., Tenafly, N. J., assignor to International Electrical Engineers Incorporated, New York, N. Y. Motor and motor switch for flashes and the like. 1,714,321; May 21.
- Sharrock and Pursel. (See Pursel, Harold M., assignor.)
- Shattuck, Verne R., Pittsburgh, Pa. Reversible slip sheeter. 1,732,384; Oct. 22.
- Shattuck, Verne R. (See Manrodt, Henry, assignor.)
- Shattuck, Ward. (See Robinson, Gorden, assignor.)
- Shatzer, Norman C., Zullinger, Pa. Shoe polisher and shoe-polish stick. 1,740,043; Dec. 17.
- Shaughnessy, Edward, assignor of one-half to M. A. Grolla, West St. Paul, Minn. Display and illuminating device. 1,715,628; June 4.
- Shaukis, Arthur J., Haverhill, Mass. Penholder. 1,706,326; Mar. 19.
- Shaukis, Arthur J., Haverhill, Mass. Atomizer. 1,740,373; Dec. 17.
- Shaunessey, Martha, Chicago, Ill. Needle guard for sewing machines. 1,712,357; May 7.
- Shave, George F., Lyndhurst South, Victoria, Australia. Reversible stump-jump disk plow. Re17,293; May 14.
- Shaver, Archibald G., Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,731,275; Oct. 15.
- Shaver, Archibald G., Chicago, Ill., assignor to Regan Safety Devices Company, Inc. Induction-type train control. 1,734,601; Nov. 5.
- Shaver, Archibald G., Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Induction train-control system for curve protection. 1,734,602; Nov. 5.
- Shaver, Archibald G., Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Train-control system. 1,734,603; Nov. 5.
- Shaver, Archibald G., Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Alternating-current intermittent-induction-type train control. 1,738,736; Dec. 10.
- Shaver, Archibald G., Chicago, Ill., assignor to The Regan Safety Devices Company, Inc., New York, N. Y. Intermittent-induction-type train control. 1,738,737; Dec. 10.
- Shaver, Archibald G., Chicago, Ill., and F. M. Rosensweig, Niagara Falls, N. Y., assignors to The Regan Safety Devices Company, Inc., New York, N. Y. Induction train-control system. 1,741,440; Dec. 31.
- Shaver, Joe, Omaha, Nebr. Refuse dispenser. 1,732,775; Oct. 22.
- Shaw, Arthur L., assignor to Chicago Automatic Conveyor Co., Chicago, Ill. Coal conveyor. 1,701,733; Feb. 12.
- Shaw, Arthur L., assignor to Chicago Automatic Conveyor Co., Chicago, Ill. Conveyor. 1,707,993; Apr. 9.
- Shaw, Charles, Brooklyn, N. Y. Apparatus for tempering sole leather. 1,700,653; Jan. 29.
- Shaw, Charles P., Detroit, Mich. Blanking die and making the same. 1,701,545; Feb. 12.
- Shaw, Charles P., Detroit, Mich. Blanking die and making the same. 1,701,546; Feb. 12.
- Shaw, Charles P., Detroit, Mich. Shaping cutting rules for dies. 1,701,547; Feb. 12.
- Shaw, Claude C., Camden, S. C. Slide shoe for road graders. 1,713,882; May 21.
- Shaw Crane-Putnam Machine Co. Inc. (See Clarke, William B., assignor.)
- Shaw-Crane-Putnam Machine Co. Inc. (See Cudahy, Lawrence J., assignor.)
- Shaw-Crane-Putnam Machine Company. (See Dustan, F., and Skidmore, assignors.)
- Shaw Crane-Putnam Machine Company. (See Dustan, F., and Welch, assignors.)
- Shaw Crane-Putnam Machine Company. (See Fickett, E. L., and Arthur, assignors.)
- Shaw-Crane-Putnam Machine Co. (See Moore, George E., assignor.)
- Shaw, Elwyn R., Freeport, Ill. Liquid-dispensing station. 1,728,771; Sept. 17.
- Shaw, Ernest C. (See Hagmaier, W. G., and Shaw.)
- Shaw, Ernest C. (See Merkel, W. J., and Shaw.)
- Shaw, George A., and J. L. Barra, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Oil check for stoppers. 1,715,174; May 28.
- Shaw, George B. (See Nelson, Henry M., assignor.)
- Shaw, George S., New Brighton, England. Footwear. 1,729,495; Sept. 24.
- Shaw, H. M., Company. (See Snow, Lyle N., assignor.)
- Shaw, Harold F., Leominster, Mass. Baby carriage. Des. 78,588; May 21.
- Shaw, Harold F., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Baby-carriage hood. Des. 77,626; Jan. 29.
- Shaw, Harold N., Milwaukee, Wis. Induction heater. 1,739,617; Dec. 17.
- Shaw, Harry N., West Grove, Pa. Antiskid armor for cushion-tire wheels. 1,737,437; Nov. 26.
- Shaw, James, Lodi, Calif. Ring-joint cutter. 1,731,639; Oct. 15.
- Shaw, James R. (See Donnellan, James S., assignor.)
- Shaw, John C., assignor to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Electric tracer control for lathes. 1,711,290; Apr. 30.
- Shaw, John C. and R. D., assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Power-limiting relay for machine-tool feeds. 1,717,326; June 11.
- Shaw, John C. and R. D., assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Template generator. 1,719,812; July 2.
- Shaw, John C. and R. D., assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Cam-cutting machine. 1,719,813; July 2.
- Shaw, John N., assignor to Commercial Importing Co., Inc., Seattle, Wash. Coffee urn. 1,719,627; July 2.
- Shaw, Llaus H., assignor to Acme Heel Company, Brockton, Mass. Heel base. 1,722,684; July 30.
- Shaw, Louis V., Wauwatosa, Wis. Portable mechanical exercising machine. 1,715,102; May 28.
- Shaw, Orville. (See Baker, R. W., and Shaw.)
- Shaw, Oscar J., Arverne, N. Y. Clothesline connector. 1,703,784; Feb. 26.
- Shaw, Otho S., Port Arthur, Tex. Tubing anchor. 1,716,245; June 4.
- Shaw, Robert D. (See Shaw, John C. and R. D.)
- Shaw, Robert G. (See Green, A. T., and Shaw.)
- Shaw, Susanne A., San Francisco, Calif. Doll twine holder. Des. 78,490; May 7.
- Shaw, Thomas, Hackensack, N. J., assignor to American Telephone and Telegraph Company. Loaded transmission system. 1,734,150; Nov. 5.
- Shaw-Walker Company. (See Bellis, Joseph, assignor.)
- Shaw-Walker Company. (See Davis, Elmer W., assignor.)
- Shaw Walker Company. (See Hunter, David E., assignor.)
- Shaw, Walter M., Enid, Okla. Low-pressure gas burner. 1,732,071; Oct. 15.
- Shaw, Wesley J., assignor to New England Wood Heel Co., Haverhill, Mass. Wood-heel machine. 1,711,973; May 7.
- Shaw, Wesley J., assignor to New England Wood Heel Co., Haverhill, Mass. Bearing. 1,736,671; Nov. 19.
- Shaw, William, Lowell, Mass., assignor, by mesne assignments, to Kitson Machine Shop. Cotton-seeding mechanism. 1,735,135; Nov. 12.
- Shaw, William E., Minneapolis, Minn. Awning attachment. 1,736,634; Nov. 19.
- Shaw, William R., Denver, Colo. Vehicle spotlight. 1,740,909; Dec. 24.
- Shaw, William S., Boyne City, Mich. Tanning hides. 1,722,398; July 30.
- Shaweker, Frank F., Toledo, Ohio. Massage implement. 1,741,795; Dec. 31.
- Shaweker, Max, Dover, Ohio. Urinometer jar. 1,710,951; Apr. 30.
- Shawmut Engineering Company. (See Bolton, John B., assignor.)
- Shawmut Engineering Company. (See Hathaway, Edgar F., assignor.)
- Shawmut Engineering Company. (See Hathaway, E. F., and Bixby, assignors.)
- Shawyer, Seymoure H., et al. (See Harris, Dan L., assignor.)
- Shay, Dewey, Spokane, Wash. Timing and distributing device. 1,713,833; May 21.
- Shay, Ralph R., assignor to Paper Utilities Corporation, Chicago, Ill. Casing for a paper-strip-feeding machine. Des. 77,713; Feb. 12.
- Shay, Ralph R., assignor to Paper Utilities Corporation, Chicago, Ill. Machine for feeding strips and the like. 1,720,530; July 9.
- Shea, Arthur J., Memphis, Tenn. Building levees and embankments. 1,733,136; Oct. 29.
- Shea, Francis A. (See Langiaux, Henri, assignor.)
- Shea, John A., Clifton, Kans. Rim lug for automobile wheels. 1,699,679; Jan. 22.
- Shea-Whelpley Construction Company, The. (See Whelpley, Earl G., assignor.)
- Sheaffer, Craig R., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Combination fountain pen and pencil. Des. 78,794; June 18.
- Sheaffer, Craig R., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Fountain pen. Des. 78,795; June 18.
- Sheaffer, Craig R., Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company. Pencil. 1,712,850; May 14.
- Sheaffer, James E., Burnham, Pa. Stopper. 1,736,725; Nov. 19.
- Sheaffer, W. A., Pen Company. (See Johnson, Edward E., assignor.)
- Sheaffer, W. A., Pen Co. (See Mundstock, H. C., Falvey, and Garrison, assignors.)
- Sheaffer, W. A., Pen Co. (See Sheaffer, Craig R., assignor.)
- Sheard, Joseph H., assignor to David Lupton's Sons Company, Philadelphia, Pa. Storeroom furniture. 1,712,054; May 7.
- Shearer, Grover P., Chicago, Ill. Basket. 1,701,312; Feb. 5.
- Shearer, Harry T., assignor to Landis Machine Company, Waynesboro, Pa. Die head. 1,699,994; Jan. 22.
- Shearer, Harry T., assignor to Landis Machine Company, Waynesboro, Pa. Chaser and chaser holder for die heads. 1,738,847; Dec. 10.
- Shearer, John P., Newark, N. Y. Display box. 1,735,059; Nov. 12.
- Shearer, Rolenzo N., Holland, Mich. Fire escape. 1,734,833; Nov. 5.
- Shears, Frederick W., et al. (See Cerfvol, Albert, assignor.)
- Shears, Sumner S., Brooklyn, N. Y. Vehicle spring arrangement. 1,711,813; May 7.



- Sheats, John H., Dayton, Ohio. Thermostatic cartridge. 1,736,984; Nov. 26.
- Shedd, Hugh F., Minneapolis, Minn. Calendar. 1,710,434; Apr. 23.
- Sheehan, John F., et al. (See Zim, Jesse G., assignor.)
- Sheehan, John L., Springfield, Mass. Milk-can handle. 1,705,071; Mar. 12.
- Sheehan, William, assignor of one-half to The Rochester Bridge Company, Rochester, Ind. Punch-gauging apparatus. 1,740,374; Dec. 17.
- Sheehan, William E., Albany, N. Y. Web carrier for paper-making machines. 1,712,587; May 14.
- Sheehan, William M., St. Louis, Mo., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Pilot beam. 1,729,554; Sept. 24.
- Sheehan, William M., St. Louis, Mo., and E. G. Hallquist, Edwardsville, assignors to Commonwealth Steel Company, Granite City, Ill. Rocker-centering device. 1,702,277; Feb. 19.
- Sheer, H. M., Company. (See Shuler, Andrew F., assignor.)
- Sheer, H. M., Company. (See Williams, Robert T., assignor.)
- Sheeran, Emmet P., assignor to The Fostoria Serum Company, Fostoria, Ohio. Clarifying liquids. 1,723,212; Aug. 6.
- Sheeres, John W. (See Wehr, A. J., Sheeres, and Eliot.)
- Sheesley, Horace A. (See Taylor, J. A., Sheesley, and Mears.)
- Sheet Steel Products Company. (See Powell, Ellis G., assignor.)
- Sheets, Barton R. (See Downing, E. J., Sheets, and Croft.)
- Sheets, Henry E., assignor to The Shelby Salesbook Company, Shelby, Ohio. Manifolding book. 1,706,711; Mar. 26.
- Sheets, Henry H. (See Roberts, O. E., jr., and Sheets.)
- Sheets, John H., New York, N. Y. Syringe. 1,707,880; Apr. 2.
- Sheffield, G. H., and Company. (See Sheffield, G. H., and Twinberrow, assignors.)
- Sheffield, George H., and J. D. Twinberrow, assignors, to G. H. Sheffield and Company, Limited, London, England. Construction of bogie trucks for railway and like vehicles. 1,700,688; Jan. 29.
- Sheffield, William H., Hobart, N. Y. Manufacture of casein. 1,716,799; June 11.
- Shetstead, Guy O., Casper, Wyo., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Pipe support. 1,726,244; Aug. 27.
- Sheil, Albert E., Birmingham, assignor to Hitchell Sheil Co., Detroit, Mich. Sport shoe. 1,728,010; Sept. 10.
- Sheirs, William J., Brooklyn, N. Y. Cushion frame for tires. 1,741,441; Dec. 31.
- Shekerjian, Hrant R., Atlantic City, N. J. Stick file. 1,713,926; May 21.
- Shelburne, Augustine, South Pasadena, Calif. Pressure paint container. 1,710,435; Apr. 23.
- Shelburne, Augustine, So. Pasadena, Calif. Air-brush nozzle. 1,737,896; Dec. 3.
- Shelby Salesbook Company. (See Critchfield, Walter O., assignor.)
- Shelby Salesbook Company, The. (See Sheets, Henry E., assignor.)
- Sheldon, Amy, assignor to The Russell Manufacturing Company, Middletown, Conn. Webbing for suspenders, garters, and similar articles. Des. 80,093; Dec. 10.
- Sheldon, Carson J., Elyria, assignor of twenty-five per cent to W. J. Fitzgibbon and twenty-three per cent to G. L. Schwartz, Youngstown, Ohio. Bowling pin. 1,718,309; June 25.
- Sheldon, Dwight M., Webster Groves, assignor to Cupples Company, Manufacturers, St. Louis, Mo. Method of and apparatus for making tires. 1,713,927; May 21.
- Sheldon, Edward P., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Folding mechanism. 1,701,055; Feb. 5.
- Sheldon, Edward P., Brooklyn, assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Adhesive applying and drying mechanism for sheets. 1,717,416; June 18.
- Sheldon, George E., Philipsburg, Pa. Composing-stick attachment. 1,738,325; Dec. 3.
- Sheldon, Howard A., et al. (See Haines, Merl, assignor.)
- Sheldon, Samuel B., Duluth, Minn. Water-cooled port for open-hearth furnaces. 1,729,750; Oct. 1.
- Shell Company of California. (See Sanders, Edward H., assignor.)
- Shell Development Company. (See Perelis, Walter J., assignor.)
- Shell Petroleum Corporation. (See Carney, Samuel C., assignor.)
- Shell Petroleum Corporation. (See Jenny, Willy, assignor.)
- Shellabarger, Hugh L., Castle Rock, Colo. Floor stand for supporting vinegar barrels and barrels of other liquid content. 1,703,432; Feb. 26.
- Sheller, John C., Maywood, assignor to W. B. Hintze, Chicago, Ill. Attachment for vehicle wheels. 1,738,453; Dec. 3.
- Shelley, Eugene L., Chicago, Ill. Shield for automobile hoods. 1,713,560; May 21.
- Shelley, Joel, Headland, Ala. Cotton picker. 1,715,309; May 28.
- Shelman, Edward H., Irvington, Ky. Automatic shotgun. 1,702,984; Feb. 19.
- Shelor, Waddie C., Tams, W. Va. Clutch-lever latch. 1,711,698; May 7.
- Shelton, Dwight J. (See Jacoby, B., Shelton, Ferguson, and Jennings.)
- Shelton, Dwight J., assignor to The Marion Steam Shovel Company, Marion, Ohio. Steering mechanism for power shovels. 1,701,016; Feb. 5.
- Shelton, Dwight J., and C. A. Weber, assignors to The Marion Steam Shovel Company, Marion, Ohio. Steering mechanism for power shovels of the traction-belt type. 1,701,594; Feb. 12.
- Shelton, Edward B., Fort Worth, Tex. Golf bag. 1,726,245; Aug. 27.
- Shelton, Harry J., University City, Mo. Hinged cage for grinders. 1,713,355; May 14.
- Shelton, Ira J., Detroit, and C. V. Jacobi, Grosse Pointe Farms, Mich. Heat-treating furnace. 1,728,371; Sept. 17.
- Shelton-Jancke Corporation. (See Thompson, Gustave R., assignor.)
- Shelton, Marvin H., Tampa, Fla. Combined tire cover and tool box. 1,715,718; June 4.
- Shelton, Marvin H., Tampa, Fla. Combined tire cover and tool box. 1,715,719; June 4.
- Shelton, Ray. (See Kiger, O. C., and Shelton.)
- Shelton, Wilbur N., Wellesley, Mass. Glare shield for vehicles. 1,735,699; Nov. 12.
- Shelton, William G., St. Louis, Mo. Hair-waving equipment. 1,704,767; Mar. 12.
- Shemitz, Reuben B., Brooklyn, and H. F. Wechsler, New York, N. Y. Apparatus and process of detecting and segregating bacteria in a liquid. 1,738,801; Dec. 10.
- Shemitz, Reuben B., New York, N. Y. Electroplating device. 1,739,657; Dec. 17.
- Shenefield, Walter S., South Bend, Ind. Condenser. 1,703,366; Feb. 26.
- Shenkan, Emanuel, Pittsburgh, Pa. Rotary eraser. 1,710,080; Apr. 23.
- Shenstrom, William. (See Kjestad, Johannes, assignor.)
- Shenton, Francis. (See Zumbro, F. R., and Shenton.)
- Shenton, Godwin, Belleville, N. J., assignor to Q & C Company, New York, N. Y. Grate bar. 1,725,376; Aug. 20.
- Shepard Electric Crane & Hoist Company. (See Shepard, James A., assignor.)
- Shepard, Ernest, Conception Junction, Mo. Face shield. 1,701,015; Feb. 5.
- Shepard, Frederick J., jr., Auburndale, assignor to Lewis-Shepard Company, Watertown, Mass. Elevating truck. 1,700,382; Jan. 29.
- Shepard, Frederick J., jr., Auburndale, and N. Warshaw, Boston, assignors to Lewis-Shepard Company, Watertown, Mass. Hoisting and load-discharging machine. 1,707,881; Apr. 2.
- Shepard, Frederick J., jr., Auburndale, N. Warshaw, Mattapan, and D. E. Hennessy, Cambridge, assignors to Lewis-Shepard Company, Watertown, Mass. Platform. 1,698,029; Jan. 8.
- Shepard, James A., assignor to Shepard Electric Crane & Hoist Company, Mounton Falls, N. Y. Motor hoist. 1,701,017; Feb. 5.
- Shepard, Oscar F., Cincinnati, Ohio. Reversing switch. 1,713,304; May 14.
- Shepard, Ralph H., Bronxville, assignor to Franklin Railway Supply Company, New York, N. Y. Steam-operated fire door. 1,723,662; Aug. 6.
- Shepard, Stanley J., Pasadena, Calif. Sign novelty. Des. 78,366; Apr. 23.
- Shepard, Stanley J., Porterville, Calif. Fastening means for hammers and the like. 1,716,605; June 11.
- Shepherd, Edward S., assignor to A. D. Stewart, St. Joseph, Mo. Preparing cereal-straw fiber for the manufacture of relatively-thick fibrous sheets therefrom. 1,728,258; Sept. 17.
- Shepherd, Louis J., New York, N. Y., assignor to George Anderson & Son, Astoria, N. Y. Ventilator. 1,717,268; June 11.
- Shepherd, Charles B., New York, N. Y., assignor to W. Reid, Scarsdale, N. Y. Rail anchor. 1,697,145; Jan. 1.
- Shepherd, Charles B., New York, assignor to W. Reid, Scarsdale, N. Y. Rail anchor. 1,697,146; Jan. 1.
- Shepherd, Charles B., Springfield, Mass., assignor to W. Reid, Scarsdale, N. Y. Rail anchor. 1,697,147; Jan. 1.
- Shepherd, George, and W. I. James, assignors to Otto Pohlar, Indianapolis, Ind. Bottle capper. 1,715,680; June 4.
- Shepherd, John E., et al. (See Walker, Charles M., assignor.)
- Shepherd, John E., and E. K. O'Brien, Charlottesville, Va., assignors, by mesne assignments, to Belle Mead Development Corporation, Charlottesville, Va. Apparatus and method for agricultural spraying. 1,723,955; Aug. 6.
- Shepherd, Joseph A., and W. L. Johnston, Detroit, Mich. Signal exhibitor. 1,716,360; June 4.
- Shepherd, Joseph E., Waukegan, Ill. Brake. 1,725,483; Aug. 20.
- Shepherd, Judson O., Atlanta, Ga. Electrical metering system. 1,699,759; Jan. 22.
- Shepherd, Thomas J. A., Waitaanga, New Zealand. Wire-rope-splicing tool. 1,726,165; Aug. 27.
- Shepherd, Winfred P., Pasadena, Calif. Toy. 1,736,176; Nov. 19.



- Shepherdson, Arnold. (See Baddiley, J., Dootson, Shepherdson, and Thornley.)
- Sheppard, Eleanor V., Chicago, Ill. Sink splash guard. 1,709,545; Apr. 16.
- Sheppard, Marshall H., Ashland, Ill. Form maker for road curbing. 1,712,358; May 7.
- Sheppard & Meyers, Inc. (See Martin, Edward C., assignor.)
- Sheppard, Orlando, jr., Atlanta, Ga. Mill plate. 1,705,379; Mar. 12.
- Sheppard, Samuel E., and L. W. Eberlin, Rochester, N. Y., assignors, by mesne assignments, to American Anode, Inc. Making and electrolytically depositing an aqueous rubber emulsion containing sulphur. 1,723,083; Aug. 6.
- Sheppard, Samuel E., and J. J. Schmitt, assignors to Eastman Kodak Company, Rochester, N. Y. Hard-rubber coating composition and making the same. 1,701,129; Feb. 5.
- Sherbondy, Frederick G., Akron, Ohio, assignor to The Biggs Boiler Works Company. Jacketed heater. 1,724,974; Aug. 20.
- Sherburne, Arthur J., Schenectady, N. Y., assignor to General Electric Company. Phonograph needle. 1,731,179; Oct. 8.
- Sherburne, Waldo M., Purple Springs, Alberta, Canada. Clothespin. 1,720,296; July 9.
- Sherer, Ralph, Mesa, Ariz., assignor of one-half to C. R. Jones, Phoenix, Ariz. Apparatus for separating materials of varying degrees of conductivity. 1,738,399; Dec. 3.
- Sherfee, Mary A. (See Moore, Milton M., assignor.)
- Sheriff, Roland F., Washington, D. C. Dispensing cabinet. 1,716,388; June 11.
- Shergold, Percy F., Luton, England. Preventing or reducing the transmission to buildings of vibrations caused by road traffic. 1,728,736; Sept. 17.
- Sheridan, Francis. (See Stedwell, George W., assignor.)
- Sheridan, Leslie M., Coppercliff, Ontario, Canada. Variable-speed driving mechanism. 1,740,788; Dec. 24.
- Sheridan, T. W. & C. B. Company. (See Smith, Charles L., assignor.)
- Sherlock, Charles B., Washington, D. C. Double ironing board. 1,731,324; Oct. 15.
- Sherman, Arthur G., Detroit, Mich. Internal-combustion engine. 1,733,431; Oct. 29.
- Sherman, Carroll J., Houston, assignor of one-third to E. Werlein, and one-sixth to C. H. Sherman, Harris County, Tex. Burner. 1,734,448; Nov. 5.
- Sherman, Carroll J., Houston, Tex., assignor of one-third to E. Werlein and of one-sixth to C. H. Sherman, Harris County, Tex. Liquid and gaseous fuel burner. 1,735,882; Nov. 19.
- Sherman, Charles H., et al. (See Sherman, Carroll J., assignor.)
- Sherman, Francis H., Palmer, Mass. Filler for cartons or other containers. 1,741,741; Dec. 31.
- Sherman, Frank R., Cleveland, Ohio. Sounding toy. 1,725,831; Aug. 27.
- Sherman, Fred S., Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Device for locating boards on book covers. 1,703,176; Feb. 26.
- Sherman, George R., and A. R. Litsinger, Baltimore, Md. Automatic oiling device. 1,718,667; June 25.
- Sherman, H. B., Manufacturing Co. (See Sherman, Howard B., assignor.)
- Sherman, Harry E., assignor to H. H. Radley, sr., Houston, Tex. Decoy. 1,718,384; June 25.
- Sherman, Howard B., deceased, Battle Creek, Mich.; I. M. Sherman, executrix. Steel lumber. 1,713,099; May 14.
- Sherman, Howard B., deceased; I. M. Sherman, executrix, assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich. Lawn-sprinkling apparatus. 1,710,844; Apr. 30.
- Sherman, Ida M., executrix. (See Sherman, Howard B.)
- Sherman, Jacob S., Chicago, Ill. Smoker's ash receiver. Des. 78,589; May 21.
- Sherman, Jacob S., assignor to Universal Lamp Company, Chicago, Ill. Smoker's ash receiver. Des. 79,392; Sept. 10.
- Sherman, Jacob S., assignor to Universal Lamp Company, Chicago, Ill. Automobile radiator attachment. 1,714,279; May 21.
- Sherman, James E., Buffalo, N. Y. Headlight. 1,696,978; Jan. 1.
- Sherman, John C., Gorham, Me., assignor to Brown Company, Berlin, N. H. Method and apparatus for forming paper strips. 1,699,760; Jan. 22.
- Sherman, John C., Gorham, Me., assignor to Brown Company, Berlin, N. H. Paper strip. 1,716,866; June 11.
- Sherman, John C., Gorham, Me., assignor to Brown Company, Berlin, N. H. Holder for paper towels and the like. 1,724,428; Aug. 13.
- Sherman, John Q., Dayton, Ohio. Manifold machine. 1,701,426; Feb. 5.
- Sherman, John Q., Dayton, Ohio. Manifold machine. 1,719,946; July 9.
- Sherman, John Q., Dayton, Ohio. Protected record file. 1,731,180; Oct. 8.
- Sherman, John Q., Dayton, Ohio, assignor to The Standard Register Company. Card-filing device. 1,733,278; Oct. 29.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Paper-folding machine. 1,699,165; Jan. 15.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Manifolding machine. 1,710,034; Apr. 23.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Cash-drawer manifolding device. 1,716,566; June 11.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio, assignors to The Standard Register Company. Manifolding register. 1,741,442; Dec. 31.
- Sherman, Louis A., Grosse Pointe, Mich. Permanent shipping rack. 1,732,383; Oct. 22.
- Sherman, Ozro G., Chicago, Ill. Buckle. 1,712,096; May 7.
- Sherman, Roger B., Los Angeles, Calif. Ceramic. 1,701,313; Feb. 5.
- Sherman, Sol, New York, N. Y. Tie. 1,720,009; July 9.
- Sherman, Walter F., Albany, N. Y. Tractor. 1,700,143; Jan. 29.
- Sherman, William B., Boston, Mass. Electric distributing device for floors. 1,715,474; June 4.
- Sherover, Max, New York, N. Y. Textile fabric. Des. 79,485; Sept. 24.
- Sherover, Max, New York, N. Y. Textile fabric. Des. 79,486; Sept. 24.
- Sherover, Max, New York, N. Y. Textile fabric. Des. 79,487; Sept. 24.
- Sherover, Max, New York, N. Y. Textile fabric. Des. 79,488; Sept. 24.
- Sherover, Max, New York, N. Y. Textile fabric. Des. 79,489; Sept. 24.
- Sherred, Francis H., East Orange, assignor to Newark Concrete Pipe Co., Newark, N. J. Pipe-joint structure. 1,698,738; Jan. 15.
- Sherrick, Samuel T., assignor to E. S. Kassler, jr., and T. P. Campbell, Denver, Colo. Cleaning composition. 1,736,375; Nov. 19.
- Sherriff, Frederick E., assignor to Sherriff-Gosoline Co., Battle Creek, Mich. Roof structure. 1,701,640; Feb. 12.
- Sherriff-Gosoline Co. (See Sherriff, Frederick E., assignor.)
- Sherrell, George. (See Breunier, R. A., Sherrell, and Donnell.)
- Sherrell, Hoyt, and F. Clingan, Ann Arbor, Mich. Toothpick holder. 1,700,519; Jan. 29.
- Sherrell, Richard M., Evanston, Ill., assignor to Central Scientific Company. Advertising device. 1,722,770; July 30.
- Sherwood, Agnes, Massillon, Ohio. Alarm signal. 1,737,774; Dec. 3.
- Sherwood, Albert R., Belmont, N. Y. Device for stopping automobiles. 1,721,978; July 23.
- Sherwood, Carlyle J., assignor to Coen Company, Inc., Los Angeles, Calif. Combination burner mounting and air control. 1,722,253; July 23.
- Sherwood, Charles F., Detroit, Mich. Manufacture of bodies from metal powder. 1,708,192; Apr. 9.
- Sherwood, Charles F., Detroit, Mich. Uniting metallic bodies. 1,708,193; Apr. 9.
- Sherwood, Charles F., Mill Valley, assignor to Oliver-Sherwood Co. Screen. 1,718,385; June 25.
- Sherwood, Charles F., Detroit, Mich., assignor to Oliver-Sherwood Co., San Francisco, Calif. Rubber-covered woven screen. 1,718,386; June 25.
- Sherwood, Glenn L., Oak Park, assignor to Western Foundation Company, Chicago, Ill. Composite pile. 1,715,791; June 4.
- Sherwood, Riley A., Billings, Mont. Doorcheck. 1,700,086; Jan. 22.
- Sherwood Sanitary Furnace Company. (See Sherwood, Truman C., assignor.)
- Sherwood, Truman C., assignor to Sherwood Sanitary Furnace Company, Incorporated, Danville, Ill. Furnace. 1,733,561; Oct. 29.
- Sherwood, William E., assignor to The Eagle Wagon Works, Auburn, N. Y. Side-dump vehicle. 1,702,092; Feb. 12.
- Sherwood, William E., Canastota, assignor to Eagle Wagon Works, Auburn, N. Y. Rear-end dump box for vehicles. 1,739,376; Dec. 10.
- Shetzline, Roy A., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical protective system. 1,715,475; June 4.
- Sheuerman Brothers. (See Friedman, Joseph, assignor.)
- Shevenell, John L., et al., trustees. (See Josephson, Helmer G., assignor.)
- Shevenell, John L., et al., trustees. (See Sorenson, John E., assignor.)
- Shevlin, Harold C., assignor, by mesne assignments, to 'Shevlin Hydraulic Jack Company, Denver, Colo. Hydraulic jack. 1,707,497; Apr. 2.
- Shevlin Hydraulic Jack Company. (See Shevlin, Harold C., assignor.)
- Shevlin, Joseph P. (See Norton, S. E., and Shevlin.)
- Shevlin, Theus M., Alexandria, La. Gas and air mixer. 1,729,278; Sept. 24.
- Shiber, Charles C. (See Davis, E. R., and Shiber.)
- Shickluna, Joseph J., Buffalo, N. Y. Grounding box. 1,736,097; Nov. 19.
- Shidler, Frank L. (See Gregg, Robert D., assignor.)
- Shidler, Frank L. (See Gregg, R. D., and Shidler.)
- Shield, Paul S., assignor to A. Davis, jr., Cincinnati, Ohio. Tank-valve-control system. 1,714,927; May 28.
- Shield, Paul S., assignor to A. Davis, jr., Cincinnati, Ohio. Predetermining and indicating mechanism for dispensers. 1,724,429; Aug. 13.



- Shield, Paul S., assignor to A. Davis, jr., Cincinnati, Ohio. Pneumatic control for truck-tank valves. 1,726,319; Aug. 27.
- Shield, Paul S., assignor to A. Davis, jr., Cincinnati, Ohio. Dispensing apparatus. 1,739,870; Dec. 17.
- Shields, Andrew, Hamden, assignor to The American Mills Company, Waterbury, Conn. Strip of webbing or similar material. Des. 79,993; Nov. 26.
- Shields, Archibald, Brooklyn, N. Y. Priming cup. 1,697,330; Jan. 1.
- Shields, Carl E., Chicago, assignor to Rock Island Manufacturing Company, Rock Island, Ill. Toaster. Re-17,196; Jan. 15.
- Shields, Charles E. (See Perks, C., Shields, and Murray.)
- Shields, Clarence G., Pittsburgh, Pa. Transmission mechanism. 1,728,372; Sept. 17.
- Shields, Frank S., New York, N. Y. Tractor hitch for plows. 1,725,217; Aug. 20.
- Shields, Frank S., New York, N. Y., assignor, by mesne assignments, to General Implement Company, Racine, Wis. Combined plow and soil-pulverizing implement. 1,697,665; Jan. 1.
- Shields, Frank S., assignor to The Universal Tiller Corporation, New York, N. Y. Tillage implement. 1,729,969; Oct. 1.
- Shields, George D., Los Angeles, assignor of one-fourth to B. Russell, South Pasadena, Calif. Rotary drilling and reaming tool organization. 1,701,427; Feb. 5.
- Shields, Hastings M., Los Angeles, Calif. Apparatus for peeling fruit. 1,699,995; Jan. 22.
- Shields, Hastings M., Los Angeles, Calif. Apparatus for recovering the valuable constituents from citrus fruits. 1,734,534; Nov. 5.
- Shields, John M., assignor to F. H. Noble & Co., Chicago, Ill. Covering for jewelry boxes and the like. Des. 79,942; Nov. 19.
- Shields, John M., assignor to F. H. Noble & Co., Chicago, Ill. Covering for jewelry boxes and the like. Des. 79,943; Nov. 19.
- Shields, John M., assignor to F. H. Noble & Company, Chicago, Ill. Wrist-watch box. 1,735,060; Nov. 12.
- Shields, John M., assignor to F. H. Noble & Company, Chicago, Ill. Display pad for jewelry boxes and the like and forming the same. 1,735,061; Nov. 12.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender buckle. Des. 78,410; Apr. 30.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender buckle. Des. 78,411; Apr. 30.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender buckle. Des. 78,412; Apr. 30.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender buckle. Des. 78,413; Apr. 30.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Garment-clasp hook. Des. 78,540; May 14.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Garment-clasp hook. Des. 78,541; May 14.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Garter hook. Des. 78,542; May 14.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 78,590; May 21.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Strap slide. Des. 78,658; May 28.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Strap slide. Des. 78,659; May 28.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender-end top link. Des. 79,912; Nov. 12.
- Shields, Patrick W., assignor to McKenna Brass & Manufacturing Company, Pittsburgh, Pa. Conveying mechanism. 1,709,750; Apr. 16.
- Shields, Thomas C., and W. J. Cameron, Los Angeles, Calif. Shower. 1,736,803; Nov. 26.
- Shields, Thomas L., Seattle, Wash. Fare-box clamp. 1,703,964; Mar. 5.
- Shiffer, Harry R., Brownstown, Pa. Toothpick holder. 1,720,297; July 9.
- Shifman Bros. (See Shifman, Milton L., assignor.)
- Shifman, Milton L., Irvington, assignor to Shifman Bros., Newark, N. J. Tufting mattresses and the like. 1,719,027; July 2.
- Shiga, Taisan, Tokyo, assignor to Tei Kawata, Tokyo-Shi, Japan. Fireproof composition. 1,720,926; July 16.
- Shiller, Bedrich F., Victoria, Tex. Attachment for plow beams. 1,733,914; Oct. 29.
- Shillinger, Michael W., Grand Rapids, Mich. Lamp support. Des. 77,372; Jan. 1.
- Shilstone, Herbert M., New Orleans, La. Incubator and method of hatching chickens. 1,721,795; July 23.
- Shimrek, John W. (See Evers, W. H., and Shimrek.)
- Shimer, John M., Wilkinsburg, Pa., assignor to Wilson-Snyder Manufacturing Company. Pump. 1,712,969; May 14.
- Shimer, John M., Wilkinsburg, Pa., assignor to Wilson-Snyder Manufacturing Company. Pump. 1,714,456; May 21.
- Shimer, John N. M. (See Simmons, J. J., and Delaney, assignors.)
- Shimizu, Seizo, Hongo-Ku, Tokyo, Japan. Ship's log and speed indicator. 1,726,320; Aug. 27.
- Shimizu, Yoshi, New York, N. Y. Submarine rescue device. 1,728,808; Sept. 17.
- Shimizu, Yoshi, New York, N. Y. Submarine signal and air-supply device. 1,728,882; Sept. 17.
- Shimp, William E., Hull, Iowa. Hog greaser. 1,731,181; Oct. 8.
- Shindel, Harry F., assignor to Willson Products, Inc., Reading, Pa. Valve device for respirators or the like. 1,701,277; Feb. 5.
- Shindel, Harry F., assignor to Willson Products, Inc., Reading, Pa. Goggles attachment for spectacles. 1,709,195; Apr. 16.
- Shindel, Harry F., assignor to Willson Products, Inc., Reading, Pa. Goggle fitting. 1,738,618; Dec. 10.
- Shindel, John L., West Lancaster, Pa. All-cedar moth chaser. 1,724,781; Aug. 13.
- Shinn, Charles P., New York, N. Y. Scraper. 1,708,905; Apr. 9.
- Shinn, Charles P., jr., New York, N. Y. Blade holder. 1,729,279; Sept. 24.
- Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,700,182; Jan. 29.
- Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,703,958; Mar. 5.
- Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,703,959; Mar. 5.
- Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,719,383; July 2.
- Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,730,094; Oct. 1.
- Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,730,095; Oct. 1.
- Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,735,062; Nov. 12.
- Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,740,629; Dec. 24.
- Shipley, Charles P., Kansas City, Mo. Hand bag. 1,717,587; June 18.
- Shipley, Elmer E., Washington, D. C., and W. W. Shipley, Cherrydale, Va. Coat and hat rack. 1,716,703; June 11.
- Shipley, Grant B. (See Alinder, H., and Shipley.)
- Shipley, John Q. (See Munson, W. R., and Shipley.)
- Shipley, Marion R., Manhattan Beach, Calif. Stovepipe casing. 1,738,021; Dec. 3.
- Shipley, Roy A., Canton, Ohio, assignor to National Fire Proofing Company, Pittsburgh, Pa. Apparatus for manufacturing hollow tile. 1,728,373; Sept. 17.
- Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Refrigerating method and apparatus. 1,703,965; Mar. 5.
- Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Vertical shell and tube condenser. 1,705,546; Mar. 19.
- Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Detachable pipe connection. 1,709,751; Apr. 16.
- Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Method of and apparatus for cooling liquids. 1,718,310; June 25.
- Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Evaporator and brine cooler. 1,718,311; June 25.
- Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Evaporator. 1,718,312; June 25.
- Shipley, Thomas, assignor, by mesne assignments, to York Ice Machinery Corporation, York, Pa. Evaporator. 1,718,313; June 25.
- Shipley, Thomas, assignor to York Ice Machinery Corporation, York, Pa. Duplicate head shell and tube condenser. 1,739,018; Dec. 10.
- Shipley, William W. (See Shipley, Elmer E. and W. W.)
- Shipman, George H. C., Ottawa, Ontario, Canada. Separable fastener. 1,734,405; Nov. 5.
- Shipman, Robert L., assignor of one-half to E. D. Sprague, Bridgeport, Conn. Refrigerator closure. 1,726,631; Sept. 3.
- Shipp, Clarence C., Indianapolis, Ind. Radiator-box base. 1,711,814; May 7.
- Shipp, Jesse A., Carlville, Ill. Pressure-maintaining valve mechanism. 1,729,191; Sept. 24.
- Shipp, Lewis E., Kenton, Ohio. Car construction. 1,698,457; Jan. 8.
- Shippert, Warren A., Dixon, Ill. Milking machine. 1,715,720; June 4.
- Shippy, Leo C. (See Parker, L. O., and Shippy.)
- Shipstead, Alfred T., Detroit, Mich. Terminal clip. 1,700,859; Feb. 5.
- Shipstead, Alfred T., Detroit, Mich. Firebox arrangement for furnaces. 1,720,973; July 16.
- Shipway, Stephen P., London, England, assignor to Whitbys Limited. Display rack for coats, costumes, and the like. 1,703,601; Feb. 26.



- Shipway, Stephen P., London, England, assignor to Whitbys Limited. Stand for the display of coats, costumes, and the like. 1,720,762; July 16.
- Shiras, David R., Pittsburgh, Pa. Boring tool. 1,716,984; June 11.
- Shireman, Andrew, deceased, Martinsville, Ind.; E. J. Shireman administratrix. Seeder. 1,733,562; Oct. 29.
- Shireman, Ella J., administratrix. (See Shireman, Andrew.)
- Shirk, Leroy B., Martindale, Pa. Penholder. 1,719,244; July 2.
- Shirley, Merritt H. (See Hill, John A., assignor.)
- Shirley, Walter L., San Diego, Calif. Shingle spacer for roofs. 1,709,376; Apr. 16.
- Shirreff, Arthur F., London England. Vehicle. 1,730,480; Oct. 8.
- Shirreff, Arthur F., London, England. Truck. 1,730,481; Oct. 8.
- Shive, Jacob A., assignor to York Ice Machinery Corporation, York, Pa. Sheet-metal container. 1,734,052; Nov. 5.
- Shive, Roy A. (See McGavack, J., and Shive.)
- Shively, James H., et al. (See McKay, Donald H., assignor.)
- Shively, Jess A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Attachment for calendars. 1,700,099; Jan. 22.
- Shively, Jess A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for gum-stripping tips of beads. 1,732,776; Oct. 22.
- Shively, Walter E., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. Des. 78,414; Apr. 30.
- Shively, Walter L., Pittsburgh, Pa. Flare. 1,727,360; Sept. 10.
- Shively, Walter L., Washington, D. C. assignor to the Government of the United States of America, represented by the Secretary of the Navy. Aero smoke bomb. 1,709,597; Apr. 16.
- Shivers, Paul F., Wabash, Ind. Heating-system control. 1,707,193; Mar. 26.
- Shivers, Paul F., Wabash, Ind., assignor to Webster Electric Company, Racine, Wis. Variable condenser. 1,702,061; Feb. 12.
- Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fluid-fuel-burner control. 1,707,194; Mar. 26.
- Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fluid-fuel-burner control. 1,707,195; Mar. 26.
- Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Valve actuator. 1,713,402; May 14.
- Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fluid-fuel-burner control. 1,730,828; Oct. 8.
- Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fluid-fuel-burner control. 1,730,829; Oct. 8.
- Shivers, Paul F., Wabash, Ind., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fluid-fuel-burner control. 1,730,830; Oct. 8.
- Shivers, Paul F., Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostat. 1,730,831; Oct. 8.
- Shliekr, Joseph, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-upper-holding device for lasts. 1,719,279; July 2.
- Shodin, Albin E., Los Angeles, Calif. Building truss. 1,718,883; June 25.
- Shoe Form Co., The. (See De Witt, William J., assignor.)
- Shoe Form Co. (See DeWitt, William J., assignor.)
- Shoe Form Co. Inc., The. (See De Witt, William J., assignor.)
- Shoe Hardware Company, The. (See Cobb, Henry Z., assignor.)
- Shoe Hardware Company, The. (See Pipes, Walter L., assignor.)
- Shoe Lace Company. (See Matson, Carl A., assignor.)
- Shoemaker, Alvin H., Seattle, Wash. Pneumatic bumper for automobiles. 1,709,493; Apr. 16.
- Shoemaker, Alvin H., Seattle, Wash. Pneumatic bumper. 1,709,494; Apr. 16.
- Shoemaker, Alvin H., assignor to Semitire Company Inc., Seattle, Wash. Pneumatic tire and rim construction. Re17,461; Oct. 15.
- Shoemaker, Benton L., Dallas, Tex. Door for compresses. 1,721,839; July 23.
- Shoemaker, Harry, Jersey City, N. J., assignor, by mesne assignments, to P. R. Mallory & Co., Incorporated, Indianapolis, Ind. Electrical rectifying system. 1,723,583; Aug. 6.
- Shoemaker, Harry, Jersey City, N. J., assignor, by mesne assignments, to P. R. Mallory & Co., Incorporated, Indianapolis, Ind. Rectifying device. 1,723,584; Aug. 6.
- Shoemaker, Harry C., Freeport, Ill. Device for babbitting engine-crank-shaft bearings. 1,710,952; Apr. 30.
- Shoemaker, Jeremiah J., Garrettsville, Ohio. Plowshield. 1,697,544; Jan. 1.
- Shoemaker, John W., assignor to The Wadsworth Watch Case Company, Dayton, Ky. Wristband. 1,707,582; Apr. 2.
- Shoemaker, Raymond B., and C. L. Lawrence, New York, N. Y. Dishwasher. 1,717,417; June 18.
- Shoemaker, Richard W., Turlock, Calif. Transformer cut-out. 1,731,594; Oct. 15.
- Shoemaker, Robert J., assignor to S. & T. Metal Company, Chicago, Ill. Anti-friction metal. 1,703,212; Feb. 26.
- Shoemaker, Robert J., assignor to S. & T. Metal Company, Chicago, Ill. Bearing metal and making same. 1,717,469; June 18.
- Shoemaker, William M., jr., Kennett Square, Pa., assignor to National Vulcanized Fibre Company, Wilmington, Del. Making fiber board. 1,714,640; May 28.
- Shoemaker, William M., jr., Kennett Square, Pa., assignor to National Vulcanized Fibre Company, Wilmington, Del. Apparatus for making fiber board. 1,714,641; May 28.
- Shoe Products, Inc. (See Jones, George A., assignor.)
- Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Combined cord reel. 1,725,308; Aug. 20.
- Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Illuminating device. 1,730,632; Oct. 8.
- Shoenberger, Philip D., San Mateo, assignor to Western Pipe and Steel Company of California, San Francisco, Calif. Pipe-wrapping machine. 1,735,136; Nov. 12.
- Shogren, Charles A., assignor, by mesne assignments, to Art Metal Screen and Weather Strip Company, Chicago, Ill. Metal frame for screens. 1,741,958; Dec. 31.
- Sholar, Edward H., Chattanooga, Tenn. Damper. 1,725,484; Aug. 20.
- Sholberg, Ole M., Fergus Falls, Minn. Pump-counterbalancing means. 1,697,786; Jan. 1.
- Shollin, Edwin E., Alko, Nev. Animal trap. 1,728,701; Sept. 17.
- Sholtes, Peter, Youngstown, Ohio. Gauge attachment. 1,742,103; Dec. 31.
- Sholtz, Richard J., et al. (See Hardenbergh, Clarence M., assignor.)
- Shone, James, Grant City, N. Y. Coaster. 1,701,798; Feb. 12.
- Shonka, Valerian L., Bellwood, Nebr. Grain saver. 1,714,322; May 21.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Door hanger. 1,702,799; Feb. 19.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Door-operating mechanism. 1,712,122; May 7.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Adjustable door operator. 1,716,567; June 11.
- Shonnard, Harold W., Upper Montclair, N. J., assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Elevator-control apparatus. 1,716,568; June 11.
- Shonnard, Harold W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Door-control means for elevators. 1,716,569; June 11.
- Shonnard, Harold W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Sliding shoe. 1,722,828; July 30.
- Shonnard, Harold W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Electric bell. 1,724,524; Aug. 13.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Curtain roller. 1,729,133; Sept. 24.
- Shonnard, Harold W., Montclair, N. J., assignor to Elevator Supplies Company, Inc. Doorcheck. 1,738,123; Dec. 3.
- Shonnard, Harold W., Montclair, N. J., and W. B. Crowell, New York, N. Y., assignors to Elevator Supplies Company, Inc. Resistance stabilizer for fluid doorchecks. 1,736,946; Nov. 26.
- Shook, John A., assignor of one-third to A. N. Compton and one-third to C. A. Cowden, Trammel, Va. Collapsible or pinless clothesline. 1,722,685; July 30.
- Shook, Lawrence G., Los Angeles, Calif. Jack. 1,701,314; Feb. 5.
- Shook, Lawrence G., Los Angeles, Calif. Blind. 1,708,636; Apr. 9.
- Shooter, John F., Gary, Ind. Spirit level. 1,700,815; Feb. 5.
- Shopflicher, Siegfried, Montreal, Quebec, Canada. Display package. 1,731,153; Oct. 8.
- Shoppneck, Henry P., Dorchester, Mass. Impregnated shoe stiffener. 1,725,598; Aug. 20.
- Shore, Albert F., New York, N. Y. View analyzer. 1,701,698; Feb. 12.
- Shore, Albert F., New York, N. Y. Wide-angle image glass or finder for cameras. 1,716,668; June 11.
- Shore, Albert F., New York, N. Y. Clip for laminate springs. 1,727,019; Sept. 3.
- Shore, Albert F., New York, N. Y. Registering mechanism. 1,734,183; Nov. 5.
- Shore, Joe, assignor to Shore Self Fit Optical Company, Kansas City, Mo. Eye-testing machine. 1,719,733; July 2.
- Shore-Line Builders, Inc. (See Weber, Carl, assignor.)
- Shore Self Fit Optical Company. (See Shore, Joe, assignor.)
- Shore, William J., New York, N. Y. Fuse-testing device. 1,723,750; Aug. 6.



- Shore, William E., West New Brighton, N. Y. Rotary compressor. 1,715,629; June 4.
- Shore, William E., New York, N. Y. Oil burner. 1,739,047; Dec. 10.
- Shores, Howard. (See Ryan, J. E., and Shores.)
- Short, Charles R. (See Kettering, C. F., and Short.)
- Short, Charles R., Dayton, Ohio. Bearing and making the same. 1,703,177; Feb. 26.
- Short, Charles R., Dayton, Ohio, and A. L. Cash, Marine City, assignors to A C Spark Plug Company, Flint, Mich. Air-cleaning device. Re17,425; Sept. 3.
- Short, Charles R., assignor to General Motors Research Corporation, Dayton, Ohio. Resilient connector. 1,697,787; Jan. 1.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Valve mechanism. 1,701,391; Feb. 5.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Composite piston. 1,701,392; Feb. 5.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Composite piston. 1,701,393; Feb. 5.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Motor mounting. 1,701,394; Feb. 5.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Heater for lubricating oil. 1,707,743; Apr. 2.
- Short, Charles R., assignor to General Motors Research Corporation, Dayton, Ohio. Making wrought-metal articles. 1,711,000; Apr. 30.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation. Composite piston. 1,712,937; May 14.
- Short, Charles R., Dayton, Ohio, and V. Hughes, assignors to General Motors Research Corporation, Detroit, Mich. Change-speed mechanism. 1,712,938; May 14.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Combined air cleaner, oil filler, and crank-case breather. 1,712,939; May 14.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation. Fuel-control device. 1,712,941; May 14.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Composite piston. 1,718,588; June 25.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Valve tappet. 1,718,589; June 25.
- Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Composite piston. 1,734,021; Oct. 29.
- Short, Charles R., assignor to General Motors Research Corporation, Dayton, Ohio. Resilient connector. 1,735,982; Nov. 19.
- Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Automatic gear transmission. 1,701,395; Feb. 5.
- Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Change-speed gearing. 1,705,032; Mar. 12.
- Short, Charles R., assignor to General Motors Research Corporation, Detroit, Mich. Steering mechanism. 1,712,940; May 14.
- Short, Elwin G., Portland, Oreg. Adjustable inclined shelving apparatus. 1,711,329; Apr. 30.
- Short, Frank, New York, N. Y., assignor of one-half to J. J. Serrell, Elizabeth, N. J., and one-half to R. A. Smith, Mahwah, N. J. Illuminating apparatus and process. 1,733,915; Oct. 29.
- Short, Frank, Penn Yan, N. Y., assignor of one-half to J. J. Serrell, Elizabeth, and one-half to R. A. Smith, Mahwah, N. J. Illuminating system. 1,734,022; Oct. 29.
- Short, Frank A., Hillside, N. J. Eyeglass construction. 1,737,979; Dec. 3.
- Short, Frank A., Hillside, N. J. Eyeglass construction. 1,737,980; Dec. 3.
- Short, Jesse P., Greensburg, Ind. Rural mail box. 1,708,109; Apr. 9.
- Short, John M., Wheeling, W. Va. Lock nut. 1,710,117; Apr. 23.
- Short, Otto R. (See Pentler, S. J., and Short.)
- Short, Sam B., Baton Rouge, La. Movable flight. 1,722,865; July 30.
- Short, Thomas A., San Francisco, Calif. Signal for detecting oil in water tanks. 1,708,033; Apr. 9.
- Short, Walla, Webb City, Mo. Cable-conveying means. 1,735,301; Nov. 12.
- Shortlidge, Wentworth H., Avalon Borough, Pa. Card file. 1,711,064; Apr. 30.
- Shortt, Howard G., Carthage, assignor of one-half to Stebbins Engineering and Manufacturing Company, Watertown, N. Y. Pumping steam trap. 1,719,906; July 9.
- Shostak, Louis, assignor of one-half to F. P. Dengler Inc., Chicago, Ill. Food product and making same. 1,735,510; Nov. 12.
- Shosun Manufacturing Corporation. (See Dustan, Frederick P., assignor.)
- Shotter, George F., New Southgate, England. Apparatus for the measurement of the level and flow of liquids. 1,716,838; June 11.
- Shotter, George F., New Southgate, England. Apparatus for measurement of the level and flow of liquids and the height or movement of a body. 1,727,254; Sept. 3.
- Shotton, John C., Lakewood, and T. Scherf, Cleveland, Ohio. Dental drill. 1,697,576; Jan. 1.
- Shotwell, Fred M., et al. (See Shotwell, Frederic V., assignor.)
- Shotwell, Frederic V., assignor of one-half to F. M. Shotwell, Detroit, Mich., and one-half to Griffith-Hope Company, West Allis, Wis. Card-index file. Des. 77,988; Mar. 12.
- Shotwell, Harvey L., Buffalo, N. Y. Indicating signal for vehicles. 1,721,642; July 23.
- Shotwell, Harvey L., Buffalo, N. Y. Process and apparatus for dredging stone and gravel. 1,729,054; Sept. 24.
- Shoulder Hoe (Hampson's Patents) Company Limited, The. (See Hampson, John, assignor.)
- Shove, Edward H., Westville, Conn., assignor to The American Steel and Wire Company of New Jersey. Rope stranding machine. 1,712,406; May 7.
- Showalter, Jeremiah A., Savannah, Ga. Well-drilling machine. 1,719,142; July 2.
- Showalter, Paul E. (See Dixon, William E., assignor.)
- Showalter, Victor E. (See Miller, E. C., and Showalter.)
- Showalter, Victor E., Dayton, Ohio. Earth inductor compass galvanometer. 1,724,048; Aug. 13.
- Showers, Charles M., Madison, Wis. Concrete mold. 1,736,376; Nov. 19.
- Showers, Ernest S., Champion, Mich. Braking mechanism for coaster wagons. 1,726,967; Sept. 3.
- Showers, Jess L. (See Birdsong, J. A., and Showers.)
- Showers, Lee, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Process and apparatus for rolling plate glass. 1,704,580; Mar. 5.
- Showmin, Ross, Toledo, Ohio. Valve mechanism. 1,719,674; July 2.
- Shrader, Robert S. (See Hoffman, C. J., and Shrader.)
- Shreeve, Ernest M., Ogden, Utah. Mail-distributing case. 1,726,632; Sept. 3.
- Shreeve, Leonard D., and G. H. Hills, Phoenix, Ariz. Heater. 1,728,309; Sept. 17.
- Shreffler, Elwyne O., and A. D. Lesage, Manteno, Ill. Rotary internal-combustion engine. 1,720,098; July 9.
- Shriner, Robert L., Weehawken, N. J., assignor, by mesne assignments, to W. Pasternack, New York, N. Y. Electrically-operated water heater. 1,725,832; Aug. 27.
- Shrode, John L., St. Louis, Mo. Automatic control valve for refrigerating systems. 1,711,699; May 7.
- Shrode, John L., St. Louis, Mo. Valve-closing mechanism. 1,735,511; Nov. 12.
- Shrope, William D. (See Fitzsimmons, J. T., and Shrope.)
- Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Co. Inc., Chicago, Ill. Coffee-making apparatus. 1,706,190; Mar. 19.
- Shroyer, Jacob L., Oak Park, Ill., assignor to Edison Electric Appliance Company, Inc. Electric cooking device. 1,717,269; June 11.
- Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric cooking device. 1,717,270; June 11.
- Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Broiler. 1,722,237; July 23.
- Shroyer, Melvin W., Humboldt, Nebr. Grapple. 1,728,084; Sept. 10.
- Shrum, Peter J., Monaca, assignor to Colona Manufacturing Company, Pittsburgh, Pa. Thread protector. 1,711,181; Apr. 30.
- Shrum, Peter J., Monaca, assignor to Colona Manufacturing Company, Pittsburgh, Pa. Apparatus for making expansion couplings. 1,711,182; Apr. 30.
- Shrum, Peter J., Monaca Heights, Pa., assignor to Colona Manufacturing Company. Protector. 1,715,792; June 4.
- Shrum, Peter J., Monaca, Pa., assignor to Colona Manufacturing Company. Thread protector. 1,735,983; Nov. 19.
- Shuben, Alter, assignor to Shubennette Furniture Manufacturing Corporation, Los Angeles, Calif. Table. Des. 78,842; June 25.
- Shubennette Furniture Manufacturing Corporation. (See Shuben, Alter, assignor.)
- Shubert, George C., et al. (See Rider, Herbert E., assignor.)
- Shuck, Gordon R., Seattle, Wash., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electric meter. 1,731,941; Oct. 15.
- Shuell, Frank W., assignor to Everhot Heater Company, Detroit, Mich. Hot-water system. 1,734,920; Nov. 5.
- Shuell, Frank W., and E. E. Ledbetter, assignors to Everhot Heater Company, Detroit, Mich. Gas burner. 1,699,032; Jan. 15.
- Shuell, Frank W., E. E. Ledbetter, and T. J. Tobey, assignors to The Everhot Heater Company, Detroit, Mich. Thermostatic gas regulator. 1,705,787; Mar. 19.
- Shugart, George, and E. G. Thomssen, Winoma, Minn., assignors to The J. R. Watkins Company, Wilmington, Del. Foldable container. 1,703,213; Feb. 26.
- Shuko, Stephen, Boston, Mass. Floral-pillow support. 1,738,454; Dec. 3.



- Shuler, Andrew F., deceased, by M. M. Shuler, Arcanum, and W. B. Shuler, Dayton, Ohio, executors, assignors to H. M. Sheer Company, Quincy, Ill. Brooder. Re17,348; July 2.
- Shuler, Mary M., et al., executors. (See Shuler, Andrew F.)
- Shuler, Winford B., et al., executors. (See Shuler, Andrew F.)
- Shulman, Israel A., assignor to American Bosch Magneto Corporation, Springfield, Mass. Electrolytic cell. 1,721,886; July 23.
- Shull, Daniel L., Bakersfield, assignor of one-fourth to T. Smith, Taft, Calif. Long-stroke pumping mechanism. 1,734,649; Nov. 5.
- Shulman, Isidor, Brooklyn, N. Y. Coloring book. 1,698,739; Jan. 15.
- Shulman, Isador, and M. Shulman, New York, N. Y. Educational game. 1,736,552; Nov. 19.
- Shulman, Max, Washington, D. C. Metal sheet piling. 1,721,643; July 23.
- Shulman, Meyer. (See Shulman, Isador and M.)
- Shults, Herbert O., assignor to E. L. Mansure Company, Chicago, Ill. Cable terminal. 1,733,279; Oct. 29.
- Shultz, Albert B., assignor to Houde Engineering Corporation, Buffalo, N. Y. Shock absorber. 1,697,577; Jan. 1.
- Shultz, Thomas L. (See Hoag, James W., assignor.)
- Shuman, Arno, Philadelphia, Pa. Skylight construction. 1,740,749; Dec. 24.
- Shuman, Leo, Spokane, Wash. Electric heater. 1,712,522; May 14.
- Shuman, Leo, Spokane, Wash. Electric heater. 1,715,520; June 4.
- Shupert, Frank W., Sanford, Fla. Superheater unit. 1,725,485; Aug. 20.
- Shure, Nathan, Chicago, Ill. Clock case. Des. 77,564; Jan. 22.
- Shur-On Standard Optical Company. (See Long, Eli M., assignor.)
- Shur-On Standard Optical Company. (See Sundstrom, Gustaf L., assignor.)
- Shurtleff, Wilfred. (See Otis, G. E., and Shurtleff.)
- Shurtz, Andrew J., Des Moines, Iowa. Adjustable tie plate and rail clamp. 1,729,134; Sept. 24.
- Shuster, F. B., Company, The. (See Matteson, George F., assignor.)
- Shuster, F. B., Company, The. (See Thatcher, John J., assignor.)
- Shute, Arthur C. (See Bergen, W. V., and Shute.)
- Shutt, George H., New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion for looms. 1,730,018; Oct. 1.
- Shutt, Jesse R., and A. A. Gordon, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Self-threading shuttle. 1,723,424; Aug. 6.
- Shuttleworth, Annette, New York, N. Y. Molding tool. 1,703,785; Feb. 26.
- Shuttleworth, Sterling W. (See Maas, J., and Shuttleworth.)
- Shutts, Leroy W., assignor to General Motors Research Corporation, Detroit, Mich. Hydraulic valve mechanism. 1,723,882; Aug. 6.
- Shutts, Leroy W., assignor to General Motors Research Corporation, Detroit, Mich. Hydraulic slack adjuster. 1,727,790; Sept. 10.
- Shutz, Frank J. (See May, J. J., and Shutz.)
- Sialco, Incorporated. (See Kraus, Charles E., assignor.)
- Sibley, Edwin J., Westbury, N. Y. Window friction adjuster. 1,713,561; May 21.
- Sibley, Edwin J., Westbury, N. Y. Transom stay. 1,713,562; May 21.
- Sibley, Edwin J., Westbury, N. Y. Casement-window friction adjuster. 1,730,538; Oct. 8.
- Sibley, Edwin J., Westbury, N. Y. Window stay. 1,730,539; Oct. 8.
- Sibley, James T., New York, N. Y. Stop and repeat mechanism for phonographs. 1,726,128; Aug. 27.
- Sibley, James T., assignor to S. & U. Holding Company, Inc., New York, N. Y. Windshield wiper. 1,700,777; Feb. 5.
- Sibley, James T., assignor to S. & U. Holding Company, Inc., New York, N. Y. Windshield wiper. 1,704,632; Mar. 5.
- Sibley, James T., assignor to S. & U. Holding Company, Inc., New York, N. Y. Motor starter. 1,723,084; Aug. 6.
- Sibson, Walter W. (See Allsop, T., and Sibson.)
- Sicard, Arthur, Montreal, Quebec, Canada. Snow-removing machine. 1,703,736; Feb. 26.
- Sichel, John. (See Grushlaw, George, assignor.)
- Siddall, Norman, Stockport, England. Drinking vessel. 1,729,017; Sept. 24.
- Siddall, Wilbur H., assignor to Bay State Optical Company, Attleboro, Mass. Construction for eyeglass frames. 1,700,573; Jan. 29.
- Siddeley, John D., Coventry, England. Mixing device. 1,732,820; Oct. 22.
- Siddens, Robert P., Mason, Ill. Stock-loading chute. 1,733,517; Oct. 29.
- Side, Frederick W. (See Brown, R. P., and Side.)
- Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
- Sidebottom, John W., assignor to T. C. Entwistle Company, Lowell, Mass. Warper. 1,707,957; Apr. 2.
- Sidella, Stephen, Port Carbon, Pa. Snow-removing machine. 1,739,331; Dec. 10.
- Siderits, Thomas, Milwaukee, Wis. Splicing clamp. 1,716,904; June 11.
- Siders, Wesley, Fremont, Nebr. Muffler for automobile engines. 1,729,018; Sept. 24.
- Sidis, William J., New York, N. Y. Perpetual calendar. 1,718,314; June 25.
- Sidney Steel Scraper Company, The. (See Perry, W. A., and Toy, assignors.)
- Sidway-Topliff Company. (See Johnson, Gustaf O., assignor.)
- Sidway-Topliff Company. (See Schwartz, Joseph L., assignor.)
- Sidway-Topliff Company. (See Wolfe, George N., assignor.)
- Sidwell, Francis. (See Booth, J. H., and Sidwell.)
- Sieben, Henry. (See Murray, Howard J., assignor.)
- Sieben, Henry, New York, N. Y. Gas-shut-off valve pull box. 1,716,535; June 11.
- Sieben, Henry, New York, N. Y. Gas-shut-off pull box. 1,716,536; June 11.
- Siebenbürger, Hugo. (See Mayer B., and Siebenbürger.)
- Sieber, Gottwalt, Plauten, assignor to the firm: Vogtländische Maschinenfabrik (vormals J. C. & H. Dietrich) Aktiengesellschaft, Plauen, Saxony, Germany. Pressure feet for vertical-needle embroidery machines. 1,699,314; Jan. 15.
- Sieber Products Manufacturing Company. (See Rubin, Adolph, assignor.)
- Siebert, Charles T., Jr., and B. Walter, Pittsburgh, Pa., assignors to Arthur G. McKee & Company, Cleveland, Ohio. Valve. 1,727,677; Sept. 10.
- Siebert, Herman C., Coopersburg, Pa., assignor to Bethlehem Steel Company. Combustion apparatus. 1,709,042; Apr. 16.
- Siebert John M., and G. L. Warren, Johannesburg, Transvaal, South Africa. Rock drill. 1,707,883; Apr. 2.
- Siebert, O. W., Company. (See Siebert, Otto W., assignor.)
- Siebert, Otto W., assignor to O. W. Siebert Company, Gardner, Mass. Carriage hood and making the same. 1,707,688; Apr. 2.
- Siebert, Otto W., assignor to O. W. Siebert Company, Gardner, Mass. Child's vehicle. 1,737,618; Dec. 3.
- Siebs, Claude T., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Vulcanizer. 1,720,763; July 16.
- Siedenburger, John H., Brooklyn, N. Y. Window. 1,718,838; June 25.
- Sieder, Everett N., Elizabeth, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Heat-exchange apparatus. 1,726,995; Sept. 3.
- Siedler, Philipp, Griesheim-on-the-Main, and E. Schulte, Schwanheim-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Apparatus for refining raw carbon disulphide. 1,699,255; Jan. 15.
- Siedler, Philipp, Griesheim-on-the-Main, and Eugen Schulte, Schwanheim-on-the-Main, assignors to the firm I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Refining raw carbon disulphide. 1,733,171; Oct. 29.
- Siegel, Charles S. (See Alexander, R. U., and Larsen, assignors.)
- Siegel, Fred W., Newark, N. J. Rod-supporting means. 1,731,113; Oct. 8.
- Siegel, George, et al., board of trustees. (See Ellis, Axel E., assignor.)
- Siegel, Henry M., Malden, Mass. Toothbrush holder. 1,735,512; Nov. 12.
- Siegel, Max J., Bronx, N. Y. Window construction. 1,726,590; Sept. 3.
- Siegel, Samuel, New York, N. Y. Display device. 1,720,531; July 9.
- Siegel, Samuel J., New York, N. Y., assignor to Carthage Mills Incorporated, Carthage, Cincinnati, Ohio. Rug. Des. 79,611; Oct. 15.
- Siegens, Hans. (See von Girsawald, C., Siegents, and Marschner.)
- Siegert, Paul, Yonkers, N. Y. Device for inspecting ovens. 1,716,800; June 11.
- Siegle, G., Corporation of America, Inc. (See Culmann, J., and Ahrens, assignors.)
- Sieglitz, Adolf. (See Eichwede, H., Fischer, and Sieglitz.)
- Siegmund, Humphreys O., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrolytic device. 1,705,944; Mar. 19.
- Siegmund, Humphreys O., Springfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. 1,717,070; June 11.
- Siegmund, Humphreys O., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Direct-current-supply system. 1,725,377; Aug. 20.
- Siemens Brothers & Company. (See Christian, David A., assignor.)
- Siemens & Halske Aktiengesellschaft. (See Abild, A., Jipp, Steiner, and Tüczek, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Arndt, Hermann, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Böhme, Kurt, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Böhme, K., and Giese, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Ebeling, August, assignor.)



- Siemens & Halske Aktiengesellschaft. (See Engelhardt, Victor, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Esmarch, Wilhelm, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Gaarz, W., and Sorge, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Grüss, Heinz, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Hartmann, Carl A., assignor.)
- Siemens & Halske Aktiengesellschaft. (See Horn, Arno, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Küpfmüller, Karl, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Küpfmüller, K., Mayer, and Thierbach, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Küpfmüller, K., Tuczak, and Mayer, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Lubberger, Fritz, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Marchthal, Eduard, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Marchthal, Michele, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Martens, Moritz, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Mathias, Maximilian, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Mayer, Hans, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Moeller, M., Schleicher, and Kluge, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Niemann, Carl, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Podszus, Emil, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Schleicher, M., and Poleck, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Sell, Helmut, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Sell, H., and Langenbeck, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Swinne, Richard, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Von Voss, R., and Schleicher, assignors.)
- Siemens & Halske Aktiengesellschaft. (See Wernerwerk, Langer, Max, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Wetzell, Gustav, assignor.)
- Siemens & Halske Aktiengesellschaft. (See Zeithammer, Otto A., assignor.)
- Siemens-Reiniger-Verfa Gesellschaft für Medizinische Technik m. b. H. (See Pohlmann, Max, assignor.)
- Siemens-Schuckertwerke A. G. (See Holthaus, Gottlieb, assignor.)
- Siemens-Schuckertwerke Aktiengesellschaft. (See Altenkirch, Edmund, assignor.)
- Siemens-Schuckertwerke Aktiengesellschaft. (See Menz, Gustav, assignor.)
- Siemens-Schuckertwerke Aktiengesellschaft. (See Peincke, Wilhelm, assignor.)
- Siemens-Schuckertwerke Aktiengesellschaft. (See Schlecker, Karl, assignor.)
- Siemens-Schuckertwerke Aktiengesellschaft. (See Szilard, Leo, assignor.)
- Siemens-Schuckertwerke Aktiengesellschaft. (See Weinert, Helmut, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Abendroth, Wilhelm, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Altenkirch, Edmund, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Berthold, Rudolf G., assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Donat, Karl, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Eule, Martin, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Fischer, Ernst, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Fuchs, A., Hanff, and Lanz, assignors.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Geisen, Hans, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Grau, Georg E., assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Klement, Wilhelm, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Krell, Otto, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Kuhl, L., and Ritz, assignors.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rüdenberg, Reinhold, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Schalkau, Artur, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Stender, Waldemar, assignor.)
- Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Szilard, Leo, assignor.)
- Siemering, Herman. (See Krenski, F., and Siemering.)
- Sieper, Otto, Richmond Hill, assignor to The Moto Meter Company, Inc., Long Island City, N. Y. Manufacture of indicating instruments. 1,700,242; Jan. 29.
- Sierad, Albert E. and M., assignors to George W. Button Corporation, New York, N. Y. Powder jar. Des. 78,843; June 25.
- Sierad, Albert E. and M., assignors to George W. Button Corporation, New York, N. Y. Bottle. Des. 78,844; June 25.
- Sierad, Milton. (See Sierad, Albert E. and M.)
- Sierad, Milton. New York, N. Y. Combination powder jar. Des. 78,591; May 21.
- Sierra, Juan, jr., New York, N. Y. Circular-saw plane. 1,711,102; Apr. 30.
- Sieurin, Sven E., Hoganas, Sweden. Production of oxide of aluminum. 1,701,510; Feb. 12.
- Sieurin, Sven E., Hoganas, Sweden. Production of iron sponge. 1,714,280; May 21.
- Sieurin, Sven E., and A. S. Edlund, Hoganas, Sweden. Purifying aluminum oxide. 1,726,001; Aug. 27.
- Sievers, Albert J., Oakland, Calif. Fuel-combustion-rate intensifier. 1,727,382; Sept. 10.
- Sievers, Otto. (See Benda, L., and Sievers.)
- Sievers, Wilhelm. (See Zinnow, H., and Sievers.)
- Siewert, Frederick W., U. S. Navy, Bremerton, Wash. Evaporator. 1,704,064; Mar. 5.
- Siewert, Alom D., Pasadena, Calif. Tooth-paste dispenser. 1,704,108; Mar. 5.
- Sifton, Clifford, jr., Toronto, Ontario, Canada. Variable-speed transmission. 1,703,178; Feb. 26.
- Sigel, Eugene, Brooklyn, N. Y. Mustard dispenser. 1,725,163; Aug. 20.
- Sigler, John C., and R. G. Sigler, Chicago, Ill. Casing for a direction indicating device. Des. 79,107; July 30.
- Sigler, Lough P., Dallas, Tex. Staff and jewel mounting for watches. 1,707,542; Apr. 2.
- Sigler, Roy G. (See Sigler, John C. and R. G.)
- Sigman, Guy R., Kearney, Nebr. Advertising cabinet. 1,731,083; Oct. 8.
- Sigman, Myer, assignor of forty-nine one-hundredths to V. Conzemi, Cleveland, Ohio. Safety device for vehicles. 1,704,768; Mar. 12.
- Sigmund, Friedrich, Nürtingen, Germany. Wire tier for sacks. 1,720,152; July 9.
- Signal Accessories Corporation. (See Burke, William R., assignor.)
- Signal Gesellschaft m. b. H. (See Hahnemann, Walter, assignor.)
- Signal Gesellschaft m. b. H. (See Hahnemann, W., Adelmann, and Lichtel assignors.)
- Signal Gesellschaft m. b. H. (See Hahnemann, W., Hecht, and Nielsen, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hahnemann, Walter, assignor.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hahnemann, W., Hecht, and Settegast, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hecht, Heinrich, assignor.)
- Signal Gesellschaft mit beschränkter Haftung. (See Hecht, H., and Rudolph, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Schmidt, G., and Settegast, assignors.)
- Signal Gesellschaft mit beschränkter Haftung. (See Wilckens, Ernest, assignor.)
- Signature Company, The. (See Hemming, Daniel W., assignor.)
- Signorini, Alberto, New York, and G. Geloso, Brooklyn, N. Y. Internal-combustion engine. 1,721,320; July 16.
- Sigoda, Victor J., Brooklyn, N. Y. Stitch-forming mechanism for sewing machines. 1,714,928; May 28.
- Sigsbee, Seth D., Schenectady, N. Y. Drum lever. 1,714,401; May 21.
- Sigsworth, Douglas W., Edmonton, Alberta, Canada. Chain fastener. 1,735,798; Nov. 12.
- Sikes, Kenneth K., Tolt, Wash. Heater and sterilizer. 1,735,093; Nov. 12.
- Sikorski, Stanley. (See Naggy, M., and Sikorski.)
- Silberhartz, Philip, assignor to Majestic Lamp Works, Brooklyn, N. Y. Lamp base or analogous article. Des. 78,491; May 7.
- Silberman, David, Long Beach, assignor to S. L. Ruskin, Trustee, New York, N. Y. Hook and eye tape. 1,725,107; Aug. 20.
- Silbermann, Salman. (See Heurer, H., and Silbermann.)
- Silbermann, Salman, Porz-on-the-Rhine, Germany. High-tension cable. 1,701,278; Feb. 5.
- Silbermann, Salman, Porz-on-the-Rhine, Germany. End sleeve and junction box for high-tension cables. 1,701,279; Feb. 5.
- Silberstein, James, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Solder. 1,699,761; Jan. 22.
- Silberstein, James, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Solder. 1,728,772; Sept. 17.
- Silcock, Matthew. (See Douglas, W. W., Gregg, and Silcock.)
- Silen, Erick, Stella, Wash. Combination baker, oven, and griddle. 1,736,223; Nov. 19.
- Silent, Harold C. (See Mitchell, D., and Silent.)
- Silent, Harold C., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Suppression of echoes and singing in four-wire circuits. 1,714,525; May 28.
- Siler, Robert W., Long Beach, Calif. Treating metallic bodies. 1,721,357; July 16.
- Silex Company, The. (See Boever, Anne M., assignor.)



- Silge, Walter H., Chicago, Ill. Manufacture of eyeglass lenses. 1,729,459; Sept. 24.
- Silica Gel Corporation, The. (See Benzon, Axel, assignor.)
- Silica Gel Corporation, The. (See Miller, Ernest B., assignor.)
- Silica Gel Corporation, The. (See Miller, E. B., and Edel, assignors.)
- Silica Products Co. (See Collings, Orlando A., assignor.)
- Silica Products Co. (See Cross, Roy, assignor.)
- Silica Products Co. (See Cross, R., and Collings, assignors.)
- Silk, Albert. (See Goff, Judson L., assignor.)
- Silke, George P., Kelowna, British Columbia, Canada. Cigarette-making apparatus. 1,726,368; Aug. 27.
- Sills, Oville, assignor of two-fifths to T. L. Cory, Ottawa, Ontario, Canada. Carburetor. 1,727,568; Sept. 10.
- Silva, Antone J., Milton, Calif. Hay-feeding machine. 1,699,573; Jan. 22.
- Silva, Antone J., Milton, Calif. Hay-loading machine. 1,700,455; Jan. 29.
- Silva, Antonio A., Boston, Mass. Platform attachment for ladders. 1,725,723; Aug. 20.
- Silva, Joaquin, Brooklyn, N. Y. Milk-bottle holder. 1,707,883; Apr. 2.
- Silva, Juan A. (See González, P. M., and Silva)
- Silver, Benjamin J., New York, N. Y. Shoe. 1,724,975; Aug. 20.
- Silver, Conrad E., Tacoma, Wash. Radio cabinet ornament. Des. 77,714; Feb. 12.
- Silver, Henry B., New York, N. Y. Bottle-dipping machine. 1,739,526; Dec. 17.
- Silver, Max, Brooklyn, N. Y. Window construction. 1,702,094; Feb. 12.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Lister. 1,721,716; July 23.
- Silver, William S., Havre de Grace, Md. Sealing machine. 1,739,048; Dec. 10.
- Silverice, Inc. (See Weinrich, Morris F., assignor.)
- Silverman, Edward L., Brooklyn, N. Y. Globe. Des. 79,765; Oct. 29.
- Silverman, Joseph, Chicago, Ill. Folding chair. 1,704,712; Mar. 12.
- Silverman, Joseph, Chicago, Ill. Folding chair. 1,721,138; July 16.
- Silverman, Joseph, Chicago, Ill. Folding chair. 1,736,804; Nov. 26.
- Silvers, David W., Los Angeles, Calif. Lighting-fixture globe. Des. 79,913; Nov. 12.
- Silverstein, Boris, Brooklyn, N. Y. Welting or gimp. 1,738,400; Dec. 3.
- Silverstein, Franklin M. (See Coffin, J. G., and Silverstein.)
- Silverstein, Sam J., Mount Vernon, N. Y. Combination pocketbook and animal brush. Des. 78,660; May 28.
- Silvester, Robert H., and W. H. Bancroft, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe stiffener. 1,720,764; July 16.
- Silverthorne, Frank H., New York, N. Y., assignor to Scriptex Ink & Paste Co., Philadelphia, Pa. Bottle closure. 1,737,273; Nov. 26.
- Silvey, Le Croynne, San Francisco, Calif. Golf shoe. 1,702,800; Feb. 19.
- Sim, James, assignor to G. & J. Weir, Limited, Cathcart, Glasgow, Scotland. Closed feed system for steamships. 1,723,257; Aug. 6.
- Simard, Joseph. (See Picard, H., and Simard.)
- "Simcup" Company Limited, The. (See Brown, Henry B., assignor.)
- Simeone, Aurelio J. (See O'Neill, P. M., and Simeone.)
- Simeral, Raymond S., assignor to The Pioneer Radio Corporation, Plano, Ill. Radiosocket. 1,721,474; July 16.
- Simjian, Luther G., New Haven, Conn. Pose-reflecting system for photographic apparatus. 1,709,598; Apr. 16.
- Simjian, Luther G., New Haven, Conn. Apparatus for producing margined photographs. 1,734,780; Nov. 5.
- Simler, Oscar J., Sebring, Ohio. Interlocking and tripping switch for automobile signals. 1,738,401; Dec. 3.
- Simmen, Paul J., Eden, N. Y. Automatic-train control. Re17,384; July 30.
- Simmen, Paul J., Eden, N. Y. Automatic train control. Re17,395; Aug. 6.
- Simmonds, Clyde S., Sacramento, Calif. Coupling. 1,735,910; Nov. 19.
- Simmons, Albert H., Wheaton, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric heater. 1,698,282; Jan. 8.
- Simmons, Berkeley L. (See Simmons, Leo and B. L.)
- Simmons Company. (See Bayer, Matthew F., assignor.)
- Simmons Company. (See Gail, John F., assignor.)
- Simmons Company. (See Harman, Frank B., assignor.)
- Simmons Company. (See Klos, Erwin L., assignor.)
- Simmons Company. (See Kusterle, Frank, assignor.)
- Simmons Company. (See Kusterle, F., and Busch, assignors.)
- Simmons Company. (See Kusterle, F., and Vollmer, assignors.)
- Simmons Company. (See Stuart, Charles A., assignor.)
- Simmons Company. (See Travis, Don C., assignor.)
- Simmons Company. (See Travis, D. C., and Vollmer, assignors.)
- Simmons Company. (See Vollmer, William A., assignor.)
- Simmons, Elta, New York, N. Y. Waffle iron. 1,715,103; May 28.
- Simmons, Ernest P., Kansas City, Kans. Key machine. 1,732,032; Oct. 15.
- Simmons, Finn, New York, N. Y., assignor, by mesne assignments, to Nufold Furniture Company, Chicago, Ill. Folding chair. 1,714,323; May 21.
- Simmons, Finn, New York, N. Y., assignor, by mesne assignments, to Nufold Furniture Company, Chicago, Ill. Folding arm chair. 1,727,255; Sept. 3.
- Simmons, George A. (See Anderson, E. K., and Simmons.)
- Simmons, George B., assignor to American Mining Tool Company, Ottumwa, Iowa. Holder for miners' lamps. 1,715,148; May 28.
- Simmons, George M., Cohay, Miss. Parachute. 1,740,044; Dec. 17.
- Simmons, George P., assignor to Horrocks Desk Company, Herkimer, N. Y. Lubricator. 1,739,377; Dec. 10.
- Simmons, Jesse E., Kerens, Tex. Playing cards. 1,737,478; Nov. 26.
- Simmons, John J., San Jose, Calif. Dishwasher. 1,725,486; Aug. 20.
- Simmons, John J., and R. J. Delaney, assignors of one-third to J. N. M. Shimer, Philadelphia, Pa. Centrifugal fluid-fuel burner. 1,728,011; Sept. 10.
- Simmons, John J., and R. J. Delaney, assignors of one-third to J. N. M. Shimer, Philadelphia, Pa. Thermostatic device. 1,728,012; Sept. 10.
- Simmons, John W., Cleveland, Ohio, assignor to Radio Corporation of America, New York, N. Y. Variable condenser. 1,709,959; Apr. 23.
- Simmons, Leo, Washington, D. C. Ceiling electric-light fixture and ventilator. 1,699,996; Jan. 22.
- Simmons, Leo, Washington, D. C. Automatic water supply for low-pressure steam boilers. 1,699,997; Jan. 22.
- Simmons, Leo, Washington, D. C. Kinesitherapy apparatus. 1,709,410; Apr. 16.
- Simmons, Leo, Washington, D. C. Dispenser for creams and the like. 1,709,411; Apr. 16.
- Simmons, Leo, Washington, D. C. Shaving brush and the like. 1,729,909; Oct. 1.
- Simmons, Leo, Washington, D. C. Ceiling electric-light fixture. 1,731,942; Oct. 15.
- Simmons, Leo, Washington, D. C. Combined ceiling ventilator and electric-light support. 1,732,171; Oct. 15.
- Simmons, Leo and B. L., Washington, D. C. Ventilator. 1,739,082; Dec. 10.
- Simmons, Luther E., Bancroft, W. Va. Permutation lock. 1,729,019; Sept. 24.
- Simmons, Oliver G., Lakewood, Ohio. Machine for generating the teeth of gears and gear-shaped cutters. 1,697,666; Jan. 1.
- Simmons, Oliver G., Lakewood, Ohio. Gear-grinding machine. 1,731,505; Oct. 15.
- Simmons, Paul R., assignor to Indiana Fibre Products Company, Marion, Ind. Plate. Des. 78,661; May 28.
- Simmons, Paul R., assignor to Paramount Paper Products Company, Indianapolis, Ind. Paper cup and making same. 1,713,720; May 21.
- Simmons, R. F., Company. (See Smith, Ezra S., assignor.)
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel machine. 1,722,318; July 30.
- Simmons, Richard P., New York, N. Y. Well-drilling apparatus. 1,717,271; June 11.
- Simmons, Russell M. (See Autrey, Ernest J., assignor.)
- Simmons, Thomas H. J., and E. Clemence, London, England assignors to Otis Elevator Company, New York, N. Y. Elevator-door-locking gear. 1,736,805; Nov. 26.
- Simmons, William W., sr., Evansville, Ind. Display figure or stand. 1,732,777; Oct. 22.
- Simms, Harold A., Chicago, Ill. Refrigerator car. 1,716,867; June 11.
- Simon, Arthur R., La Porte, Ind. Visor. 1,724,433; Aug. 13.
- Simon, Christophe, Athis-Mons, France. Textile-material drawing. 1,697,737; Jan. 1.
- Simon, Felix. (See Olbon, John A., assignor.)
- Simon, Fred L., Baltimore, Md. Furniture caster. 1,730,788; Oct. 8.
- Simon, Gerald H., San Francisco, Calif. Hat. 1,701,130; Feb. 5.
- Simon, Henry, Limited. (See Frérotte, Auguste, assignor.)
- Simon, Jacob H., Brooklyn, N. Y. Partition post. 1,717,740; June 18.
- Simon, Isidore, Chicago, Ill. Shoe. 1,738,929; Dec. 10.
- Simon, Joseph H. (See Fichtner, E. C., and Simon.)
- Simon, Joseph H., Oakland, assignor of one-half to E. C. Fichtner, San Francisco, Calif. Electric heater unit. 1,710,196; Apr. 23.
- Simon, Julian, St. Louis, Mo. Bottle. Des. 77,437; Jan. 8.
- Simon, Julian, St. Louis, Mo. Bottle. Des. 77,438; Jan. 8.
- Simon, Leo L., New York, N. Y. Surface ornamentation. 1,711,330; Apr. 30.
- Simon, Max. (See Heusner, K., and Simon.)
- Simon, Paul J., Philadelphia, Pa. Soft-drink bottle. 1,728,883; Sept. 17.
- Simon, Peter, Binghamton, assignor to Simon Utensil Corporation, New York, N. Y. Cooking utensil. 1,715,721; June 4.
- Simon, R. & H., Co. (See Gunning, William, assignor.)
- Simon Utensil Corporation. (See Simon, Peter, assignor.)
- Simond, Walter A. (See Murphy, G., and Simond.)
- Simonds, A. A., -Dayton Company, The. (See Simonds, Herbert R., assignor.)



- Simonds, Dewey T., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,740,375; Dec. 17.
- Simonds, E. M., Devices Company. (See Simonds, Edmond M., assignor.)
- Simonds, Edmond M., Wilmette, Ill., assignor to E. M. Simonds Devices Company. Preparing food. 1,702,854; Feb. 19.
- Simonds, Herbert R., assignor to The A. A. Simonds-Dayton Company, Dayton, Ohio. Abrasive wheel and method of manufacture. 1,732,287; Oct. 22.
- Simonds, James E. (See Havekost, J. T., and Simonds.)
- Simonds Optical Company. (See Simonds, R. H., Bernheim, and McKinstry, assignors.)
- Simonds, Royal H., assignor to American Optical Company, Southbridge, Mass. Bridge for an ophthalmic mounting. Des. 79,270; Aug. 20.
- Simonds, Royal H., Southbridge, Mass., assignor, by mesne assignments, to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle temple and making same. 1,706,083; Mar. 19.
- Simonds, Royal H., Southbridge, Mass., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Machine for making spectacle temples. 1,736,956; Nov. 26.
- Simonds, Royal H., D. P. Bernheim, and A. L. McKinstry, assignors to Simonds Optical Company, Southbridge, Mass. Manufacture of spectacle frames. 1,729,901; Oct. 1.
- Simonds Saw and Steel Company. (See McKay, Charles H., assignor.)
- Simonds, Warren J., and C. C. Harris, assignors to Rodney-Hunt Machine Company, Orange, Mass. End support for rolls. 1,730,633; Oct. 8.
- Simonds Worden White Company. (See Allison, Albert J., assignor.)
- Simonds Worden White Company. (See Anderson, Edward, assignor.)
- Simone, Frank, New York, N. Y. Ticket-dispensing machine. 1,707,144; Mar. 26.
- Simonet, Alexander, Minneapolis, Minn. Furnace. 1,733,329; Oct. 29.
- Simonides, Bruno, Mannheim, Germany. Portable electrically-driven machine for planing, grinding, drilling, milling, sawing, and other operations. 1,727,383; Sept. 10.
- Simons, Abraham, New York, N. Y. Making seamless containers. 1,702,278; Feb. 19.
- Simons, Abraham, New York, N. Y., assignor to Master Wire Die Corporation. Polishing wire-drawing dies and apparatus therefor. 1,698,458; Jan. 8.
- Simons, Albert E., Brantford, Ontario, assignor to Happy Thought Foundry Company, Limited, Brantford, Canada. Stove. 1,713,782; May 21.
- Simons, Donald M., Osborne, Pa., assignor, by mesne assignments, to General Cable Corporation. Cable structure. 1,710,845; Apr. 30.
- Simons, George E., Kenilworth, Ill. Liquid-measuring container. 1,710,517; Apr. 23.
- Simons, Louis J., New York, N. Y., assignor to General Synchronizing Corporation. Synchronizing apparatus. 1,718,387; June 25.
- Simons, Lowell W., and J. H. Britton, Madison, Kans. Spring shackle bolt. 1,707,145; Mar. 26.
- Simons, Ralph J., Pittsburgh, Pa. Automobile signal. 1,727,256; Sept. 3.
- Simons, Walter B., assignor to The Geo. L. Squier Mfg. Co., Buffalo, N. Y. Rasping drums for decorticating machines and process of decorticating. 1,741,543; Dec. 31.
- Simons, Walter R., et al. (See Hultman, Edgar W., assignor.)
- Simonsen, Ernest J., Cincinnati, Ohio. Erasing apparatus. 1,705,788; Mar. 19.
- Simonson, Walter H., Brooklyn, and O. Mantius, New York, N. Y. Concentrating sulphuric acid. 1,726,321; Aug. 27.
- Simonton, Charles P. (See Huffman, John H., assignor.)
- Simplex Equipment Company. (See Blake, Eli J., assignor.)
- Simplex Equipment Company. (See Bouché, William F., assignor.)
- Simplex Equipment Company. (See Creveling, John L., assignor.)
- Simplex Gold Stamping Press Co. Inc. (See Swan, John J., assignor.)
- Simplex Ice and Manufacturing Company. (See Lee, Aubrey M., assignor.)
- Simplex Piston Ring Company. (See Solenberger, Dean M., assignor.)
- Simplex Piston Ring Company of America, The. (See Solenberger, Dean M., assignor.)
- Simplex Piston Ring Company of America, Inc., The. (See Solenberger, Dean M., assignor.)
- Simplex Piston Ring Company of America, Inc., The. (See Porter, Enos, assignor.)
- Simplex Piston Ring Company of America, Inc., The. (See Solenberger, D. M., and Jagel, assignors.)
- Simplex Refining Company. (See Pyzel, Daniel, assignor.)
- Simplex Refining Company. (See van Vergen, Charles W. A., assignor.)
- Simplex Sampling Association. (See Stenz, Bernard F., assignor.)
- Simplex Wire & Cable Company. (See Boggs, Charles R., assignor.)
- Simplex Wire and Cable Company. (See Middleton, Washington I., assignor.)
- Simplex Wire & Cable Company. (See Middleton, W. I., and Boggs, assignors.)
- Simplicity Engine & Manufacturing Company. (See Appleton, Joseph, assignor.)
- Simplicity Engine & Manufacturing Company. (See Nelson, Nels A., assignor.)
- Simpson, Arthur A., Armadale, near Melbourne, New South Wales, assignor to Universal Labels Limited, Adelaide, S. A., Australia. Apparatus for branding or otherwise marking case ends and the like. 1,737,479; Nov. 26.
- Simpson, Arthur J., Healdton, Okla. Cone bit. 1,730,301; Oct. 1.
- Simpson, Charles H., executor. (See Brown, Charles S.)
- Simpson, Charles H. et al., trustees. (See Brown, Charles S., assignor.)
- Simpson, Charles W., La Feria, Tex. Collapsible crate. 1,710,274; Apr. 23.
- Simpson, David B., Wichita, Kans. Alarm for deflated pneumatic tires. 1,734,275; Nov. 5.
- Simpson, Edward E., Tulsa, Okla. Plug packer. 1,734,884; Nov. 5.
- Simpson, Francis G. (See Garvey, M. J., jr., and Simpson.)
- Simpson, Frank B., Poughkeepsie, N. Y. Clothesline tightener. 1,724,976; Aug. 20.
- Simpson, Frank R., Upper Darby Township, Delaware County, Pa., assignor to Westinghouse Electric & Manufacturing Company. Packing gland. 1,720,696; July 16.
- Simpson, Franklin M. (See Piver, William C., assignor.)
- Simpson, George, Paterson, N. J. Combined color and flock printing machine. 1,739,264; Dec. 10.
- Simpson, George S. (See Crossley, M. L., and Simpson.)
- Simpson, Harold T., assignor to The Printing Machinery Company, Cincinnati, Ohio. Printer's registering device. 1,711,212; Apr. 30.
- Simpson, Hiram R., San Francisco, Calif. Lock seal. 1,705,072; Mar. 12.
- Simpson, Hiram R., San Francisco, Calif., assignor to B. V. Von Senden, T. Hardee, and G. N. Bjorge. Bolt lock. 1,705,590; Mar. 19.
- Simpson, James, Linden, N. J., assignor to Standard Oil Development Company. Preparing hydrocarbon products. 1,718,713; June 25.
- Simpson, James A., Grinnell, Kans. Disk seeder. 1,698,175; Jan. 8.
- Simpson, Jesse W., Anderson, S. C., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling stop motion for looms. 1,739,184; Dec. 10.
- Simpson, Joseph T., Chicago, Ill. Mixing machine. 1,706,417; Mar. 26.
- Simpson, L. G., Corporation. (See Simpson, Leon G., assignor.)
- Simpson, Lancelot M., Thorner, near Leeds, England, assignor to Associated Telephone and Telegraph Company, Kansas City, Mo. Telephone system. 1,731,943; Oct. 15.
- Simpson, Leo L., Bryn Mawr, assignor to New Era Iron and Steel Corporation, Seattle, Wash. Making briquettes or nonmolded lumps of comminuted minerals for metallurgical purposes and the product of said process. 1,729,496; Sept. 24.
- Simpson, Leon G., assignor to L. G. Simpson Corporation, Rochester, N. Y. Power-transmission mechanism. 1,725,833; Aug. 27.
- Simpson, Malachi H., Waterbury, Conn. Submarine boat. 1,708,707; Apr. 9.
- Simpson, Ray, River Forest, assignor to Jewell Electrical Instrument Co., Chicago, Ill. Spool for electrical instruments and the like. 1,704,151; Mar. 5.
- Simpson, Ray, River Forest, assignor to Jewell Electrical Instrument Co., Chicago, Ill. Resistor. 1,720,381; July 9.
- Simpson, Merle M. (See Rushton, A. L., Simpson, and Beckman.)
- Simpson, Robert J. O., assignor to The L. S. Starrett Company, Athol, Mass. Case for measuring tapes and the like. 1,698,566; Jan. 8.
- Simpson, Tully, Atlanta, Ga. Cigarette-vending device. 1,715,104; May 28.
- Simpson, Walter S., assignor to The United Electric Company, Canton, Ohio. Suction cleaner. 1,708,242; Apr. 9.
- Simpson, Walter S., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner brush. 1,720,153; July 9.
- Simpson, William, Blissfield, Mich. Combination electric and gas stove. 1,716,329; June 4.
- Simpson, William C. (See Willcox, J. S., and Simpson.)
- Sims, Clarence E. (See Hamilton, W. C., and Sims.)
- Sims, Ernest M., Elkhart, Ind. Collapsible stand. 1,716,466; June 11.
- Sims, Frederick L. H., Southampton, Ontario, Canada. Household furniture. 1,705,591; Mar. 19.
- Sims, James E. (See Stanley, A. M., and Sims.)
- Sims, James E., Worcester, Mass. Metallic wheel. 1,706,327; Mar. 19.
- Sims, Samuel W., Portland, Oreg. Cutting gauge. 1,735,216; Nov. 12.
- Sims, William J., Iver, England, assignor to General Electric Company. Wringing machine. 1,723,894; Aug. 6.
- Sims, Willis F., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for converting hydrocarbons. 1,703,550; Feb. 26.
- Simsrott, Harry A., Chicago, Ill. Picture hanger. 1,710,518; Apr. 23.



- Simzer, Edgar, Potsdam, N. Y. Heating apparatus for paper-mill surge tanks. 1,731,506; Oct. 15.
- Sincere, Frank E., New York, N. Y. Umbrella and parasol construction. 1,713,983; May 21.
- Sinclair, Alfred J., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Engine support. 1,717,524; June 18.
- Sinclair, Cyril G., Toronto, Ontario, Canada, assignor, by mesne assignments, to Reliance Storage and Warehouse Company, Detroit, Mich. Washing machine. 1,700,749; Feb. 5.
- Sinclair, Ewart G., Casper, Wyo., assignor to The Midwest Refining Company, Denver, Colo. Mining oil and the like. 1,697,788; Jan. 1.
- Sinclair, Homer M., assignor to American Tissue Mills, Holyoke, Mass. Envelope or similar container. Des. 78,543; May 14.
- Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif. Folding bed. 1,714,642; May 28.
- Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif. Portable folding bed. 1,739,805; Dec. 17.
- Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif. Vertically-pivoted wall bed. 1,740,789; Dec. 24.
- Sinclair Oil and Gas Company. (See Bernard, Harold B., assignor.)
- Sinclair Refining Company. (See Apgar, Frank A., assignor.)
- Sinclair Refining Company. (See Bell, John E., assignor.)
- Sinclair Refining Company. (See Black, Robert J., assignor.)
- Sinclair Refining Company. (See Gardner, R. H., and Hodge, assignors.)
- Sinclair Refining Company. (See Greenburg, Roland E., assignor.)
- Sinclair Refining Company. (See Harthel, E. C., and Pelzer, assignors.)
- Sinclair Refining Company. (See Herthel, Eugene C., assignor.)
- Sinclair Refining Company. (See Herthel, E. C., and Pelzer, assignors.)
- Sinclair Refining Company. (See Isom, Edward W., assignor.)
- Sinclair Refining Company. (See Isom, E. W., Herthel, and Pelzer, assignors.)
- Sinclair Refining Company. (See Miller, Albert E., assignor.)
- Sinclair Refining Company. (See Pelzer, Harry L., assignor.)
- Sinclair Refining Company. (See Phillips, E. B., and Stafford, assignors.)
- Sinclair Refining Company. (See Taber, George H., jr., assignor.)
- Sinclair Refining Company. (See Tift, Thomas D., assignor.)
- Sinclair Refining Company. (See Tift, T. A., and Vobach, assignors.)
- Sinclair Refining Company. (See Vobach, Arnold C., assignor.)
- Sincock, John F., and W. F. Bogenhagen, Sedgwick, Colo. Ditching machine. 1,701,826; Feb. 12.
- Sinband, Maurice L., New York, and P. Sporn, Brooklyn, N. Y., assignors to Westinghouse Electric & Manufacturing Company. Regulating voltage. 1,717,418; June 18.
- Sinband, Maurice L., New York, N. Y., G. N. Tidd, Elizabeth, N. J., and J. W. Milnor, New York, N. Y., assignors to General Electric Company. Communicating system for power-transmission lines. 1,724,112; Aug. 13.
- Sindl, Otto, Breslau-Carlowitz, Germany, assignor to the firm The Nuera Art-Silk Company Limited, Sutton Oak, near St. Helens, Lancashire, England. Device for straining skeins of artificial silk. 1,711,465; Apr. 30.
- Sinel, Joseph, assignor to International Ticket Scale Corporation, New York, N. Y. Weighing-scale casing. Des. 78,592; May 21.
- Siner, John T., Lancaster, Pa. Truck. 1,704,769; Mar. 12.
- Singer, Frederick M., Racine, Wis. Holding thread-chasing dies while grinding. 1,703,017; Feb. 19.
- Singer Fritz. (See Schneider, F., and Singer.)
- Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
- Singer Manufacturing Company, The. (See Allen, E. B., and Crosby, assignors.)
- Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
- Singer Manufacturing Company, The. (See Card, Frederic M., assignor.)
- Singer Manufacturing Company, The. (See Chason, Daniel H., assignor.)
- Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)
- Singer Manufacturing Company, The. (See Corral, H., and Heggie, assignors.)
- Singer Manufacturing Company. (See Eames, G. M., and Ringe, assignors.)
- Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
- Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
- Singer Manufacturing Company, The. (See Kaier, Richard, assignor.)
- Singer Manufacturing Company, The. (See Myers, Walter, assignor.)
- Singer Manufacturing Company, The. (See Parkes, William N., assignor.)
- Singer Manufacturing Company, The. (See Reidinger, Maxwell L., assignor.)
- Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
- Singer, Ralph. (See Agnini, O. G., and Singer.)
- Singer, Samuel, San Francisco, Calif. Cutting instrument. 1,726,863; Sept. 3.
- Singer, Walter M., Glendale, Calif. Hair-drying attachment for vacuum cleaners. 1,703,551; Feb. 26.
- Singiser, John P., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Power-operated pressing machine. 1,740,045; Dec. 17.
- Singleton, Gray, Fort Meade, and R. P. Thornton, Lakeland, Fla. Treating phosphate rock. 1,736,553; Nov. 19.
- Singley, Benneville L., assignor to Keystone View Company, Meadville, Pa. Stereoscope. Des. 77,871; Feb. 26.
- Singley, Benneville, assignor to Keystone View Company, Meadville, Pa. Stereoscope. 1,703,787; Feb. 26.
- Singmaster, James A., Bronxville, N. Y. Artificial-silk filament and making same. 1,725,742; Aug. 20.
- Sinkes, Roscoe, Cedar Lake, Ind. Exhaust eliminator. 1,725,834; Aug. 27.
- Sinkler, Willard A., Ada, Kans. Automatically-adjustable harness connection. 1,703,552; Feb. 26.
- Sinkler, Willard A., Ada, Kans. Wear-hook-buckle attachment. 1,739,618; Dec. 17.
- Sinko, John, Chicago, Ill. Cigar-lighter tip. 1,697,615; Jan. 1.
- Sinko Tool and Manufacturing Company. (See Drake W., and Szantay, assignors.)
- Sinning, Arnold. (See Baldwin, G. E., and Sinning.)
- Sinnott, Henry J., Far Rockaway, assignor to The Commercial Cable Company, New York, N. Y. Relay distributor. 1,721,058; July 16.
- Sinram, Rudolph E., and C. T. Heller, Long Island City, N. Y. Calking powder. 1,701,799; Feb. 12.
- Sions, Herman. (See Leatherman, Ocie A., assignor.)
- Sipe, Bruce E., Kansas City, Mo. Washing-machine dolly. 1,707,644; Apr. 2.
- Sipe George B., Shreveport, La. Producing and placing shafts, piles, and the like. 1,706,002; Mar. 19.
- Sipe, Harry B., New York, N. Y. Fastening device. 1,719,856; July 9.
- Sipe, Harry E., New York, N. Y. Door closure. 1,723,305; Aug. 6.
- Sipe, Harry E., New York, N. Y. Resilient attaching strip. 1,723,306; Aug. 6.
- Sipe, Harry E., New York, N. Y. Coupling strip. 1,723,307; Aug. 6.
- Sipe, Harry E., New York, N. Y. Glass mounting and retaining member. 1,723,308; Aug. 6.
- Sipe, Harry E., New York, N. Y. Lock strip or body. 1,723,309; Aug. 6.
- Sipe, Martin E., Indianapolis, Ind. Piston-ring expander. 1,735,587; Nov. 12.
- Sipes, Van D., Emmett, Kans. Brooder heater. 1,707,146; Mar. 26.
- Sipes, Victor W., Pittsburgh, Pa. Door construction. 1,700,184; Jan. 29.
- Sipp, Grant, Paterson, N. J. Beaming machine. 1,719,565; July 2.
- Sippel, William H., South Bend, Ind. Trailer truck. 1,723,085; Aug. 6.
- Siracusano, Louis J., Astoria, N. Y. Printed textile fabric or the like. Des. 77,507; Jan. 15.
- Siracusano, Louis J., Astoria, N. Y. Printed textile fabric or the like. Des. 77,508; Jan. 15.
- Sirch, Charles T., New York, N. Y. Safety razor. 1,719,675; July 2.
- Sirey, Lester V., Los Angeles, Calif. Life boat for aeroplanes. 1,724,622; Aug. 13.
- Sisco, Harry V., Burchard, Nebr. Wash boiler. 1,735,938; Nov. 19.
- Sisco, Peter, Chicago, Ill. Confection-dipping machine. 1,699,315; Jan. 15.
- Sisk, Martin A., Pittsburgh, Pa. Locking device for nuts and bolts and the like. 1,701,511; Feb. 12.
- Sisser, Edward J., Minneapolis, Minn. Gluten washer. 1,728,374; Sept. 17.
- Sissom, Thomas A., Italy, Tex. Apparatus for spraying plants and trees. 1,706,418; Mar. 26.
- Sisson, Strawther, Hazel, Ky. Aeroplane. 1,737,951; Dec. 3.
- Sit O'Sleep Furniture Company, The. (See Farrell, Edward P., assignor.)
- Sitkin, John J., assignor of one-half to F. Kennedy, Los Angeles, Calif. Fountain brush. 1,704,224; Mar. 5.
- Sittel, Alfred, Berlin, Germany, assignor to General Electric Company. Mount-finishing machine. 1,724,782; Aug. 13.
- Sizemore, Edmond D. (See Sizemore, J. M., Jones, and Sizemore.)
- Sizemore, Jesse M., L. B. Jones, and E. D. Sizemore, Augusta, Ga. Bunch builder. 1,702,093; Feb. 12.
- Sjoberg, Nils P., Chicago, Ill., and C. A. Christenson, Gottenborg, Sweden. Brake shoe and holder. 1,719,201; July 2.
- Skaer, Arthur H., assignor to The Denver Rock Drill Mfg. Co., Denver, Colo. Drill-steel retainer. Re17,300; May 21.



- Skaer, Arthur H., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Rock drill. 1,700,380; Jan. 29.
- Skaer, Arthur H., T. E. Barker, A. H. Katterjohn, and O. E. Clark, Denver, Colo., assignors, by mesne assignments, to Gardner-Denver Company, Quincy, Ill. Rock drill. 1,700,378; Jan. 29.
- Skaer, Arthur H., T. E. Barker, and O. E. Clark, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Reversible motor. 1,700,379; Jan. 29.
- Skaer, Arthur H., and A. H. Katterjohn, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Rock-drilling apparatus. 1,708,975; Apr. 16.
- Skaer, Arthur H., and A. H. Katterjohn, Denver, Colo., assignors, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Rock-drilling apparatus. 1,708,976; Apr. 16.
- Skaer, Moyle S., Pittsburgh, Kans. Carburetor. 1,725,218; Aug. 20.
- Skaiff, A. J., et al., trustees. (See Rightenour, Asa L., assignor.)
- Skagen, Doris, New York, N. Y. Comfort shoe. 1,719,454; July 2.
- Skaggs, Charles E., Bay Point, Calif. Anticreeping device for rails. 1,698,417; Jan. 8.
- Skaggs, Charles E., and B. E. Logan, Bay Point, Calif. Railroad joint. 1,713,783; May 21.
- Skaggs, Mert C., and C. Mallette, Crocker, Mo. Luggage retainer. 1,740,670; Dec. 24.
- Skahen, Patrick D., Syracuse, N. Y. Burial casket. 1,705,459; Mar. 12.
- Skall, Harold, assignor to Danly Machine Specialties, Inc., Chicago, Ill. Work-rest blade for centerless grinders. 1,721,475; July 16.
- Skandia Furniture Company, The. (See Tholin, Charles F., assignor.)
- Skapski, Sylwester. (See Kwiatowski, J., and Skapski.)
- Skarsten, Anders. (See Abrahamsen, A. W., and Skarsten.)
- Skaug, Johan, Rothsay, Minn. Pipe wrench. 1,734,234; Nov. 5.
- Skaupy, Franz, Berlin, Germany, assignor to General Electric Company. Filament for incandescent lamps and the like. 1,701,342; Feb. 5.
- Skaupy, Franz, Berlin, Germany, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Electric discharge tube. 1,712,407; May 7.
- Skaupy, Franz, Lichterfelde, Berlin, H. Nachod, Berlin, and G. Gaidies, Pankow, Berlin, Germany, assignors to General Electric Company. Vitreous composition. 1,708,743; Apr. 9.
- Skayer Ball Bearing Company, The. (See Brunner, Harold E., assignor.)
- Skedgell, John A., West Reading, Pa., assignor to Draper Corporation, Hopedale, Mass. Clearing mechanism for warpers or similar machines. 1,719,814; July 2.
- Skeehan, John L. (See Bernard, J. L., and Skeehan.)
- Skeehan, John L., Baden, Pa. Gauging mechanism. 1,701,086; Feb. 5.
- Skeen, Jesse T., et al. (See Craig, Chester J., assignor.)
- Skeen, Samuel T., assignor to The S. & S. Manufacturing Company. Drill. 1,703,500; Feb. 26.
- Skelley, Charles L., New York, N. Y. Razor strop and casing. 1,736,510; Nov. 19.
- Skelly, Samuel. (See Bell, F. C., and Skelly.)
- Skelton, George G. (See Bouda, B., and Skelton.)
- Skelton, Harland R., Nantasket, and T. J. O'Brien, Hull, Mass. Fishing tackle. 1,741,253; Dec. 31.
- Skelton Shovel Co. (See Skelton, Walter E., assignor.)
- Skelton, Walter E., Hamilton, Ontario, Canada, assignor to Skelton Shovel Co., Inc. Handle for shovels and other tools. 1,734,053; Nov. 5.
- Skene, Andrew A., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,733,280; Oct. 29.
- Skidmore, Benjamin, Jr., Glencoe, assignor to M. E. Skidmore, Chicago, Ill. Condensation pump and receiver. 1,714,734; May 28.
- Skidmore, Benjamin, Jr., Glencoe, assignor to M. E. Skidmore, Chicago, Ill. Vacuum and boiler feed pump. 1,714,735; May 28.
- Skidmore, Benjamin, Jr., Glencoe, assignor to M. E. Skidmore, Chicago, Ill. Apparatus for automatically priming centrifugal pumps. 1,732,542; Oct. 22.
- Skidmore, Henry F., assignor to Reliable Electric Co., Chicago, Ill. Self-soldering heat-coil fuse for switch-board protection. 1,740,480; Dec. 24.
- Skidmore, Minette E. (See Skidmore, Benjamin, Jr., assignor.)
- Skidmore, Russell P. (See Dustan, F., and Skidmore.)
- Skillman, Edward, Bartlesville, Okla. Mechanical movement. 1,699,574; Jan. 22.
- Skillman, Newton, Highland Park, assignor to O. & S. Bearing Co., Detroit, Mich. Machine for forming bushings. 1,731,988; Oct. 15.
- Skillman, Newton, Highland Park, assignor to O. & S. Bearing Co., Detroit, Mich. Double end thrust self-lubricating bearing. 1,739,528; Dec. 17.
- Skillman, Verne, Highland Park, assignor to Bohn Aluminum & Brass Corp., Detroit, Mich. Tinning bearing shells and the like. 1,741,204; Dec. 31.
- Skinner Automotive Device Co. (See Skinner, Ralph L., assignor.)
- Skinner, Clarence C., Colorado, Springs, Colo. Ironing board. 1,703,282; Feb. 26.
- Skinner, Eugene, assignor to Skinner Manufacturing Company, Omaha, Nebr. Box. 1,739,529; Dec. 17.
- Skinner Irrigation Company, The. (See Coles, Walter H., assignor.)
- Skinner, James M., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-element package. 1,718,086; June 18.
- Skinner Manufacturing Company. (See Skinner, Eugene, assignor.)
- Skinner Organ Company. (See Converse, Francis B., assignor.)
- Skinner Patent Holding Company. (See Metcalfe, Robert F., assignor.)
- Skinner, Phillip M., Dallas, Tex. Road drag. 1,727,181; Sept. 3.
- Skinner, Ralph L. (See Flogaus, Howard A., assignor.)
- Skinner, Ralph L. (See Hackethal, Paul F., assignor.)
- Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Internal-combustion-engine oil-rectifying system. 1,708,283; Apr. 9.
- Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Combined oil rectifier and filter. 1,717,741; June 18.
- Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Thermostatic appliance. 1,721,321; July 16.
- Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Oil rectifier. 1,741,482; Dec. 31.
- Skinner, Ralph L., assignor to Skinner Automotive Device Co., Inc., Detroit, Mich. Internal-combustion-engine oil distillator. 1,741,483; Dec. 31.
- Skinner, Raymond W., Tulsa, Okla. Belt fastener. 1,736,377; Nov. 19.
- Skinner, Robert L., Lima, Ohio. Clutch. 1,703,788; Feb. 26.
- Skinner, Seward H., Calwa, Calif. Can perforator. 1,703,367; Feb. 26.
- Skinner, Seward H., Calwa, Calif. Can perforator. 1,703,368; Feb. 26.
- Skirrow, Frederick W. (See Matheson, H. W., and Skirrow.)
- Skirrow, Frederick W., and G. O. Morrison, Shawinigan Falls, assignors to Canadian Electric Products Company, Limited, Montreal, Quebec, Canada. Manufacture of vinyl esters. 1,710,197; Apr. 23.
- Skitt, James H. (See Drum, G. E., and Skitt.)
- Sklar, Albert S., assignor to J. Sklar Manufacturing Co., Brooklyn, N. Y. Detachable-blade knife. 1,706,712; Mar. 26.
- Sklar, Harry, New York, N. Y. Lookout or door peep. 1,722,113; July 23.
- Sklar, J., Manufacturing Co. (See Sklar, Albert S., assignor.)
- Sklar, J., Manufacturing Co. (See Sovatkin, Edward J., assignor.)
- Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Adjustable light mounting. 1,699,124; Jan. 15.
- Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Dirigibly-mounted light. 1,699,508; Jan. 15.
- Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Dirigibly-mounted light. 1,704,225; Mar. 5.
- Sklarek, Clifford, Chicago, Ill., assignor to International Spotlight Corporation. Dirigibly-mounted light. 1,711,129; Apr. 30.
- Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Adjustable light mounting. 1,719,907; July 9.
- Sklarek, Clifford, Chicago, Ill., assignor to International Spotlight Corporation. Dirigible light. 1,724,685; Aug. 13.
- Sklenář, Anton, Lazy, Czechoslovakia. Vibratory chute or carrier. 1,735,137; Nov. 12.
- Sklarov, Benjamin. (See Rotchild, A., and Sklarov.)
- Skoglund, Joseph A., St. Paul, Minn. Arch support. 1,709,635; Apr. 16.
- Skoglund, Joseph A., St. Paul, Minn. Cigarette case. 1,714,736; May 28.
- Skoglund, Joseph A., St. Paul, Minn. Cigarette case. 1,714,737; May 28.
- Skoglund, Joseph A., St. Paul, Minn. Foot brace. 1,731,276; Oct. 15.
- Skoglund, Joseph A., St. Paul, Minn. Foot brace. 1,737,897; Dec. 3.
- Skoldberg, Ernest W., New York, N. Y. Life preserver. 1,742,104; Dec. 31.
- Skolnik, Max, assignor to The Skolnik Patents, Incorporated, Minneapolis, Minn. Mortising machine. 1,698,827; Jan. 15.
- Skolnik, Max, Minneapolis, Minn. Telephone attachment. 1,699,862; Jan. 22.
- Skolnik, Max, assignor to The Skolnik Patents, Incorporated, Minneapolis, Minn. Woodworking machine. 1,703,179; Feb. 26.
- Skolnik, Max, and B. Heller, Minneapolis, Minn. Sanding device for automobiles. 1,734,276; Nov. 5.
- Skolnik, Max, and B. G. Heller, Minneapolis, Minn. Electrically-controlled sanding devices for automobiles. 1,734,277; Nov. 5.



- Skolnik Patents, Incorporated, The. (See Skolnik, Max, assignor.)
- Skortz, Michael J., Cleveland, Ohio. Tool. 1,729,689; Oct. 1.
- Skotnik, Samuel, Bronx, N. Y. Condiment shaker. 1,741,742; Dec. 31.
- Skowron, Walter, assignor of one-half to J. Wychor, Minneapolis, Minn. Ripsaw. 1,726,772; Sept. 3.
- Skriba, Rudolph A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article-sorting apparatus. 1,701,641; Feb. 12.
- Skriba, Rudolph A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Abrading apparatus. 1,715,574; June 4.
- Skrivanek, Miles, Chicago, Ill. Variable condenser. 1,712,359; May 7.
- Skubic, Joseph, Biwabik, Minn. Bread knife. 1,697,091; Jan. 1.
- Skulsky, George. (See Whitmore, Samuel, assignor.)
- Skultety, John, Los Angeles, Calif. Combination utility stand. 1,724,320; Aug. 13.
- Skuterud, Mikarl A., Chicago, Ill. Necktie holder and stretcher. 1,702,880; Feb. 19.
- Sky Specialties Corporation. (See Heywood, Charles F., assignor.)
- Slack, Aaron S. (See Bridgwater, E. R., and Slack.)
- Slack, Charles M., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Lenard ray tube. 1,735,302; Nov. 12.
- Slack, Frederic W., assignor to Peerless Motor Car Corporation, Cleveland, Ohio. Radiator shell. Des. 77,655; Feb. 5.
- Slack, Walter W., Springfield, Vt., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last lathe. 1,736,278; Nov. 19.
- Sladdin, Arnold G., Brighouse, England. Pad for garments. 1,698,144; Jan. 8.
- Slade, Benjamin F., Pioche, Nev. Heating device. 1,700,087; Jan. 22.
- Slade, Edward, New York, N. Y. Clutch disk and making the same. 1,715,105; May 28.
- Slade, Edward, New York, N. Y. Strand and brake lining and making the same. 1,741,443; Dec. 31.
- Slade, Edward, New York, N. Y. Brake system and mechanism. 1,741,796; Dec. 31.
- Slade, Harold E., Glen Ridge, assignor to Beaver Machine & Tool Co., Inc., Newark, N. J. Electric outlet device. 1,731,989; Oct. 15.
- Slade, Harold E., Newark, and J. B. Downing, East Orange, assignors to Beaver Machine & Tool Co., Inc., Newark, N. J. Convenience outlet receptacle. 1,728,013; Sept. 10.
- Sladky, Alexander C. (See Sladky, Joseph and A. C.)
- Sladky, Alexander C. and J., Milwaukee, Wis. Oil burner. 1,710,324; Apr. 23.
- Sladky, Joseph and A. C., Milwaukee, Wis. Generator heater. 1,712,123; May 7.
- Sladky, Joseph and A. C., assignors to National Enameling & Stamping Co., Inc., Milwaukee, Wis. Making generator tubes. 1,718,763; June 25.
- Sladky, Joseph and A. C., assignors to National Enameling & Stamping Co., Inc., Milwaukee, Wis. Temperature-actuated automatic control valve. 1,735,475; Nov. 12.
- Slafsky, Isadore, Brooklyn, N. Y. Mechanical toy. 1,697,667; Jan. 1.
- Slagel, Franklin G., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Cooling unit for refrigerators. 1,729,403; Sept. 24.
- Slager, Willem A., Rijswijk, assignor to Kodowa Refrigerator Co., Ltd., The Hague, Netherlands. Refrigerating apparatus. 1,717,173; June 11.
- Slagle, Edgar A., Trenton, and B. M. O'Harra, Westfield, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Briquetting flue dust. 1,741,544; Dec. 31.
- Slagle, Everett R., Sayre, Pa., assignor to Standard Vacuum Brake Co., Camden, N. J. Carburetor. 1,703,789; Feb. 26.
- Slagle, Everett R., Sayre, Pa., assignor to Standard Vacuum Brake Co., Camden, N. J. Multiple valve. 1,739,378; Dec. 10.
- Slama, William G., assignor of one-half to H. R. Ankeny, Lincoln, Neb. Wagon end gate. 1,727,619; Sept. 10.
- Slasher Rolls Co. (See McGann, George J., assignor.)
- Slate, Aida J., Sudan, Tex. Body garment. 1,736,224; Nov. 19.
- Slate Aircraft Corporation. (See Slate, Thomas B., assignor.)
- Slate, Thomas B., Glendale, Calif. Fireproof dirigible airship. 1,720,382; July 9.
- Slate, Thomas B., Glendale, Calif. Making carbon dioxide snow. 1,735,094; Nov. 12.
- Slate, Thomas B., Arcadia, Calif., assignor to Slate Aircraft Corporation. Steam turbine. 1,741,379; Dec. 31.
- Slaten, Albert, Minneapolis, Minn. Butter cutter. 1,703,553; Feb. 26.
- Slaten, Albert, Minneapolis, Minn. Nondrip valve. 1,721,717; July 23.
- Slater, Arthur R., Santa Cruz, Calif. Air-supply buoy for submarines. 1,729,666; Oct. 1.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Locking device for steel retainers. 1,701,631; Feb. 12.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic tool. 1,713,784; May 21.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated percussive tool. 1,714,051; May 21.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. 1,719,143; July 2.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,729,668; Oct. 1.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,740,122; Dec. 17.
- Slater, Henry B., assignor to W. B. Clancy, W. A. Johnson, and G. A. Sarau, trustees, Riverside, Calif. Treating fresh fruit for the market. 1,719,567; July 2.
- Slater, Jefferson D. (See Hauff, Frederick, assignor.)
- Slater, Joseph, Kettering, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon the soles of boots or shoes. 1,702,670; Feb. 19.
- Slater, Walter F., Mansfield, assignor to Kirkham, Hulett & Chandler Limited, London, England. Gas and liquid contact apparatus. 1,704,518; Mar. 5.
- Slater, Walter F., Mansfield, Nottingham, assignor to Kirkham, Hulett & Chandler Limited, London, England. Sprayer for effecting intimate contact between liquids and gases. 1,704,519; Mar. 5.
- Slaughter, Maggie M. (See Tronc, Le Roy, assignor.)
- Slaughter, Nugent H., Mountain Lakes, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio receiving circuit. 1,717,174; June 11.
- Slaughter, Thomas S., Kansas City, Mo. Spectacle. 1,712,360; May 7.
- Slauson, Harold W., New York, N. Y. Air and oil filter. 1,729,135; Sept. 24.
- Slauder, Charles H., Columbus, Ohio. Cleaning tank. 1,739,695; Dec. 17.
- Slauder, Samuel G., and H. N. Copeland, Dayton, Ohio. Fishing-pole holder. 1,703,554; Feb. 26.
- Slaven, Lillian, Cleveland, Ohio. Liquid separator. 1,720,099; July 9.
- Slawson, Marion G. (See Bombhoff, Luther J., assignor.)
- Slayter, Games, Forest Park, Ill. Heat insulating. 1,728,837; Sept. 17.
- Sledge, Henry N., Jersey City, N. J. Lock mechanism. 1,722,062; July 23.
- Sleeman, William C., Birmingham, Ala. Brake-hanger bracket. 1,698,740; Jan. 15.
- Sleeman, William C., Birmingham, Ala. Seventy-ton car truck. 1,715,955; June 4.
- Sleeman, William C., Birmingham, Ala. Railway-car construction. 1,736,292; Nov. 19.
- Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Armor or tube forming machine. 1,703,250; Feb. 26.
- Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Armor or tube forming machine. 1,703,251; Feb. 26.
- Sleeper & Hartley, Inc. (See Nigro, Michel, assignor.)
- Sleeper & Hartley, Inc. (See Sleeper, Frank H., assignor.)
- Sleeper, Harvey P., Newark, N. J. Relay system. 1,705,687; Mar. 19.
- Sleeper, Harvey P., East Pittsburgh, Pa. Protective apparatus for distribution systems. 1,729,406; Sept. 24.
- Sleeper, Harvey P., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Time-element selective relay. 1,729,404; Sept. 24.
- Sleeper, Harvey P., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,729,405; Sept. 24.
- Sleeper, Harvey P., Newark, N. J., and C. L. Fortescue, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Phase-sequence relay. 1,726,928; Sept. 3.
- Sleeper, Ned M., Upper Lake, Calif. Pear peeler. 1,726,722; Sept. 3.
- Sleeper, Sherburne H., Portland, Me. Automobile table. 1,721,190; July 16.
- Sleffel, Otto W., Los Angeles, Calif. Bermuda-grass cutter. 1,702,707; Feb. 19.
- Slepián, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. 1,715,681; June 4.
- Slepián, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Discharge tube. 1,724,377; Aug. 13.
- Slepián, Joseph, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning arrester. 1,734,235; Nov. 5.
- Slepián, Joseph, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system for supervisory control. 1,725,164; Aug. 20.
- Slepián, Joseph, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mercury arc tube with grid control. 1,731,687; Oct. 15.
- Slettevold, Ole. (See Carlson, J. W., Walsh, and Slettevold.)
- Slezak, Vincent F., assignor, by mesne assignments, to The American Ticket Scale Company, Chicago, Ill. Ticket-feeding apparatus. 1,709,412; Apr. 16.



- Slezak, Vincent F., assignor, by mesne assignments, to The American Ticket Scale Company, Chicago, Ill. Delayed coin-controlled apparatus. 1,740,878; Dec. 24.
- Slice, Charles, Sterling Colo. Attachment for combined reaper thrashers. 1,725,939; Aug. 27.
- Slick, Edwin E., Pittsburgh, Pa. Cake plate or similar article. Des. 79,994; Nov. 26.
- Slick, Edwin E., assignor to United States Glass Company, Pittsburgh, Pa. Tumbler or similar article. Des. 79,393; Sept. 10.
- Slick, Edwin E., Pittsburgh, Pa. Plate mold and making plates. 1,712,233; May 7.
- Slick, Edwin E., Pittsburgh, Pa. Mouthpiece for transmitters. 1,712,283; May 7.
- Slick, Edwin E., Pittsburgh, Pa. Vase for flowers and the like. 1,714,193; May 21.
- Slick, Edwin E., Pittsburgh, Pa. Lamp. 1,717,525; June 18.
- Slidell, Kemper, and G. J. Schultz, assignors to C. F. Burgess Laboratories Inc., Madison, Wis. Wall and ceiling construction. 1,727,117; Sept. 3.
- Slider, Jesse A., and B. S. Goodwin, Lamar, Colo. Water strainer for engine-cooling systems. 1,741,444; Dec. 31.
- Slinger, August E., assignor to Torchparts Gas Appliance Company, Cleveland, Ohio. Regulator valve. 1,733,432; Oct. 29.
- Slipper City Wood Heel Company. (See Kinney, Norton W., assignor.)
- Slisz, John, East St. Louis, Ill., assignor of one-half to J. R. Brockman, St. Louis, Mo. Electrolytic heater. 1,728,450; Sept. 17.
- Sloan, Arthur W. (See Semon, W. L., and Sloan.)
- Sloan, Edwin P., assignor to Sharp & Smith, Chicago, Ill. Retractor. 1,707,689; Apr. 2.
- Sloan, George E., Minneapolis, Minn. Scaffold support. 1,722,018; July 23.
- Sloan, Henry L. (See Pratt, L. E., and Sloan.)
- Sloan, Robert A., Oxtun, Birkenhead, England. Revolving nose piece for microscopes and the like. 1,729,690; Oct. 1.
- Sloan, William E., Chicago, Ill. Flush valve. 1,697,481; Jan. 1.
- Sloan, William E., Chicago, Ill. Valve. 1,714,573; May 28.
- Sloane, Ambrose D. (See Bennett, T., Sloane, and Fortenbaugh.)
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Propulsion means for power shovels, and the like. 1,715,149; May 28.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Locomotive or truck. 1,734,097; Nov. 5.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Cable-reel locomotive. 1,742,012; Dec. 31.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Mine-locomotive safety device. 1,742,013; Dec. 31.
- Slocumb, Elmer E., deceased; H. C. Slocumb, administrator, Winthrop, and F. W. McArdle, Boston, assignors to Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Packaging machine. 1,726,929; Sept. 3.
- Slocumb, Harold C., administrator. (See Slocumb, E. E., and McArdle.)
- Slocum, Burton H. (See Burnham, L. F., Slocum, and Weber.)
- Slocum, Burton H., Pittsburgh, Pa., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Trimmer mechanism. 1,729,460; Sept. 24.
- Slocum, James, Detroit, Mich. Spark arrester. 1,709,854; Apr. 23.
- Slocum, Loyd M., Warsaw, N. Y. Automatic plow-releasing hitch. 1,702,708; Feb. 19.
- Slocumb, Lloyd Q., et al. (See Gage, Edward G., assignor.)
- Slocumb, Lloyd Q., Ferguson, Mo. Radio receiving apparatus. 1,707,645; Apr. 2.
- Sloman, Cheri M., assignor to Morgan and Wright, Detroit, Mich. Tire casing. 1,719,628; July 2.
- Slomka, Solomon, New York, N. Y. Combined school bag and writing pad. 1,702,279; Feb. 19.
- Sloper, Chester O., et al. (See Butler, Chancey W., assignor.)
- Sloper, Williard A., et al. (See Butler, Chancey W., assignor.)
- Sloss, Aaron M. (See Kleinercher, Anthony, assignor.)
- Slosser, Frances P., Washington, Iowa. Card holder. 1,718,315; June 25.
- Slote & Klein, Inc. (See Slote, Reuben, assignor.)
- Slote, Reuben, Mount Vernon, N. Y., assignor to Slote & Schaffer. Belt buckle. Des. 77,791; Feb. 19.
- Slote, Reuben, Mount Vernon, assignor to Slote & Klein, Inc., New York, N. Y. Belt buckle. Des. 77,918; Mar. 5.
- Slote, Reuben, Mount Vernon, assignor to Slote & Klein, Inc., New York, N. Y. Belt buckle. Des. 77,919; Mar. 5.
- Slote, Reuben, Mount Vernon, assignor to Slote & Klein, Inc., New York, N. Y. Belt buckle. Des. 77,920; Mar. 5.
- Slote, Reuben, Mount Vernon, assignor to Slote & Klein, Inc., New York, N. Y. Belt buckle. Des. 77,921; Mar. 5.
- Slote, Reuben, Mount Vernon, assignor to Slote & Klein, Inc., New York, N. Y. Belt buckle. Des. 77,922; Mar. 5.
- Slote, Reuben, Mount Vernon, assignor to Slote & Klein, Inc., New York, N. Y. Belt buckle. Des. 77,923; Mar. 5.
- Slote, Reuben, Mount Vernon, assignor to Slote & Klein, Inc., New York, N. Y. Clip for ladies' belts. Des. 78,235; Apr. 9.
- Slote & Schaffer. (See Slote, Reuben, assignor.)
- Slotoroff, Abraham, Brooklyn, N. Y. Bathing suit. 1,709,285; Apr. 16.
- Slotoroff, Abraham, Brooklyn, N. Y. Garment. 1,732,245; Oct. 22.
- Slotsky, David, Cleveland, Ohio. Water heater. 1,715,956; June 4.
- Slough, Frank M., Lakewood, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail anchor. 1,731,595; Oct. 15.
- Slutsky, Aaron, New York, N. Y. Sound-reproducing apparatus. 1,719,629; July 2.
- Slyder, Jesse D., Los Angeles, Calif. Work driver for lathes. 1,730,482; Oct. 8.
- Slyter, George W., Tacoma, Wash. Davenport bed. 1,738,156; Dec. 3.
- Small, Elmer S., Oak Park, Ill., assignor, by mesne assignments, to Kidwell-Graver Corporation. Furnace for water-tube steam boilers. 1,707,418; Apr. 2.
- Small, Frederick C. (See Robinson, L. D., and Small.)
- Small, Alfred B., Miami, Fla. Device for preventing retrograde movement of vehicles. 1,728,809; Sept. 17.
- Small, Arthur E., Oak Park, assignor to Union Metal Products Company, Chicago, Ill. Car-coupler-centering device. 1,696,979; Jan. 1.
- Small, Arthur E., Chicago, Ill., assignor to P. H. Murphy Company, New Kensington, Pa. Car roof. 1,696,980; Jan. 1.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Positioning device for car couplers. 1,696,981; Jan. 1.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Reinforcing means for metallic plates. 1,700,144; Jan. 29.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Reinforcing means for metallic plates. 1,700,145; Jan. 29.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Reinforcing metallic plates. 1,700,146; Jan. 29.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Corrugating metallic plates. 1,700,147; Jan. 29.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Positioning device for railway-car couplers. 1,700,148; Jan. 29.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Reinforcing means for metallic plates. 1,707,237; Apr. 2.
- Small, Arthur E., assignor to Railway Metal Products Company, Chicago, Ill. Railway-box-car side door. 1,707,238; Apr. 2.
- Small, Arthur E., assignor to Railway Metal Products Company, Chicago, Ill. Side door for railway box cars. 1,707,239; Apr. 2.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Drop door for railway cars. 1,710,715; Apr. 30.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Railway-car drop door. 1,710,716; Apr. 30.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Positioning device for railway-car couplers. 1,710,746; Apr. 30.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Car-coupler-positioning device. 1,713,884; May 21.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Positioning device for car couplers. 1,713,885; May 21.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Hopper door for railway cars. 1,715,012; May 28.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Buffer mechanism for diaphragm face plates. 1,723,448; Aug. 6.
- Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Metal structure for railway cars. 1,729,313; Sept. 24.
- Small, Chesley T., St. Louis, Mo. Can-capping machine. 1,712,234; May 7.
- Small, Chesley T., St. Louis, Mo. Hopper for filling machines. 1,712,235; May 7.
- Small, Chesley T., St. Louis, Mo. Hopper for filling machines. 1,724,113; Aug. 13.
- Small, Frederick M., assignor to Martin-Parry Corporation, York, Pa. Vehicle door. 1,712,588; May 14.
- Small, George A., Philadelphia, Pa., assignor to Philadelphia Bronze Bearing and Tube Company. Lining tubes. 1,717,588; June 18.
- Small, George B., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Pneumatic apparatus for pumping wells. 1,724,853; Aug. 13.
- Small, George B., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Pneumatic pumping apparatus. 1,724,854; Aug. 13.
- Small, George B., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Pneumatic pumping apparatus. 1,724,855; Aug. 13.
- Small, George B., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Pneumatic pumping apparatus. 1,724,856; Aug. 13.
- Small, George B., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Pneumatic pumping apparatus. 1,724,857; Aug. 13.



- Small, George B., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Pneumatic pumping apparatus. 1,724,858; Aug. 13.
- Small, Hayward J., Clarksburg, W. Va. Oil and gas well swab. 1,724,736; Aug. 13.
- Small, John D., New York, N. Y. Method and device for protecting the head. 1,723,633; Aug. 6.
- Small, John S., Elkhart, Ind. File. 1,709,043; Apr. 10.
- Small, John W. (See Moler, Abraham L., assignor.)
- Small, Nathaniel C., Auburn, Me. Making shoes. 1,708,034; Apr. 9.
- Small, Norman M., assignor to Frick Company, Waynesboro, Pa. Valve. 1,698,567; Jan. 8.
- Small, Norman M., assignor to Frick Company, Waynesboro, Pa. Cooling coil. 1,701,341; Feb. 5.
- Smalley, Charles E., Wagner, S. Dak. Jack attachment. 1,716,669; June 11.
- Smalley, Florence P., assignor to Bullock's Inc., Los Angeles, Calif. Wrapping paper for paper boxes. Des. 78,903; July 2.
- Smalley, Robert D. (See Ball, H. V., and Smalley.)
- Smallwood, Alfred, Smethwick, England. Clamp for structural tubes, bars, and the like. 1,729,910; Oct. 1.
- Smallwood, Alfred, and J. Fallon, Smethwick, England. Furnace. 1,724,783; Aug. 13.
- Smarr, Benjamin M., assignor to General Motors Corporation, Detroit, Mich. Terminal clip for cable ends. 1,703,325; Feb. 26.
- Smart, Carroll M., Highland Park, Mich. Bullet-proof counter attachment. 1,736,672; Nov. 19.
- Smart, Ewart E., Mineral Wells, Tex. Heel protector. 1,701,018; Feb. 5.
- Smart, Rupert B., Chicago, Ill. Printer's galley. 1,705,380; Mar. 12.
- Smart, Thomas, Port Moody, British Columbia, Canada. Rail stop. 1,726,457; Aug. 27.
- Smeby, Justin G., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Valve-operating mechanism. 1,716,010; June 4.
- Smede, Lloyd, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum-responsive glow-tube control for rectifiers. 1,716,155; June 4.
- Smedley, Leo E., Alton, Kans. Playing cards. 1,703,754; Feb. 26.
- Smedley, Troy D., Waterloo, Iowa. Swing. 1,706,863; Mar. 26.
- Smedley, Troy D., Waterloo, Iowa. Swing. 1,714,247; May 21.
- Smellie, Donald G., Maywood, Ill., assignor to The Hoover Company. Clothes-washing machine. 1,718,261; June 25.
- Smelser, Chester E., Shelbyville, Ind. Pencil-lead-vending machine. 1,707,029; Mar. 26.
- Smelzer, William E., assignor to Monarch Nusbaum Paper Box Co., Inc., Buffalo, N. Y. Box fastener. 1,716,348; June 4.
- Smetana, Wenzel J., Barron, Wis. Harness breeching D. 1,712,175; May 7.
- Smethers, Clarence J. (See Trauger, J. W., and Smethers.)
- Smethers, Clarence J., Johnson City, and E. D. Ellison, Binghamton, N. Y. Vending machine. 1,709,495; Apr. 16.
- Smidley, George W., New Holland, Ohio. Sanitary hog house. 1,710,118; Apr. 23.
- Smidley, George W., New Holland, Ohio. Hog feeder. 1,719,245; July 2.
- Smidley, Henry J., Chicago, Ill. Vacuum cleaner. 1,708,194; Aug. 9.
- Smith, F. L., & Co. (See Fasting, Johan S., assignor.)
- Smith, F. L., & Co. (See Lindhard, Povl T., assignor.)
- Smith, F. L., & Co. (See Middelboe, Kristian, assignor.)
- Smith, F. L., & Co. (See Nielsen, Niels, assignor.)
- Smith, F. L., & Co. (See Pontoppidan, Carl, assignor.)
- Smith, Leonard, Brooklyn, N. Y., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Condensation product of formaldehyde and urea and making the same. 1,704,347; Mar. 5.
- Smith, Leonard, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Urea Resins and making same. 1,704,348; Mar. 5.
- Smigelski, Stanley, Detroit, Mich. Street sign. 1,700,383; Jan. 29.
- Smiley, Robert R., Marinette, assignor to Sca-Lax Laboratories, Inc., Green Bay, Wis. Automatic boiler compound feeder. 1,728,513; Sept. 17.
- Smiley, Samuel, jr., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Sheet group suspension device. 1,707,326; Apr. 2.
- Smillie, Gordon S., Scarsdale, N. Y. Dial operating and illuminating device. 1,713,009; May 14.
- Smith, A. L., Iron Works, The. (See Scott, Ephraim J., assignor.)
- Smith, A. O., Corporation. (See Andren, Birger T., assignor.)
- Smith, A. O., Corporation. (See Crawford, W. E., and Kurtze, assignors.)
- Smith, A. O., Corporation. (See Larsen, Einer W., assignor.)
- Smith, A. O., Corporation. (See Smith, Charles S., assignor.)
- Smith, A. O., Corporation. (See Stresau, Richard, assignor.)
- Smith, Aden E., assignor to The D. A. Ebinger Sanitary Mfg. Co., Columbus, Ohio. Refrigerated-bottle dispenser. 1,736,057; Nov. 18.
- Smith, Albert G., assignor to The Miller Rubber Company, Akron, Ohio. Deflating tire tubes. 1,706,679; Mar. 26.
- Smith, Albert H., Birmingham, England. Machine for reinforcing films. 1,706,941; Mar. 26.
- Smith, Albert K., jr., assignor to Chipron Stamp Company, Los Angeles, Calif. Label mounting for stamps. 1,740,630; Dec. 24.
- Smith, Albert S. (See Gill, Charles I., assignor.)
- Smith, Alexander, & Sons Carpet Company. (See Dunne, Edmund F., assignor.)
- Smith, Alexander, assignor of one-half to J. Schmidt, Pittsburgh, Pa. Airplane. 1,730,249; Oct. 1.
- Smith, Alford M., Fresno, Calif. Girdling tool. 1,702,801; Feb. 19.
- Smith, Alfred A., New York, N. Y. Interchangeable lamp bracket. 1,711,065; Apr. 30.
- Smith, Alva T., assignor, by mesne assignments, to The Beardsley and Wolcott Manufacturing Company, Waterbury, Conn. Electric range. 1,721,191; July 16.
- Smith, Alvin W., East Millinocket, Me. Method and apparatus for making paper. 1,725,108; Aug. 20.
- Smith, Amanda E., Campbell, Nebr. Dishwashing machine. 1,714,324; May 21.
- Smith, Amos A., Tabernash, Colo. Shoe tongue. 1,718,440; June 25.
- Smith, Anna K. (See Candee, Will D., assignor.)
- Smith, Annley D., assignor to Cameo Record Corporation, New York, N. Y. Forming disk phonograph records. 1,737,619; Dec. 3.
- Smith, Anthony, West Kittanning, assignor of one-third to O. Buffington and one-third to E. E. Lawson, Kittanning, Pa. Method of and apparatus for mining thin vein coal. 1,723,383; Aug. 6.
- Smith, Arthur B., Evanston, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Transmitter. 1,706,191; Mar. 19.
- Smith, Arthur E., Los Angeles, Calif. Medicinal applicator. 1,703,903; Mar. 5.
- Smith, Arthur E., Los Angeles, Calif. Toothbrush. 1,711,183; Apr. 30.
- Smith, Arthur E., Los Angeles, Calif. Blood-extracting device. 1,718,590; June 25.
- Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe. 1,718,591; June 25.
- Smith, Arthur E., Los Angeles, Calif. Syringe. 1,718,592; June 25.
- Smith, Arthur E., Los Angeles, Calif. Ampul. 1,718,593; June 25.
- Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe. 1,718,594; June 25.
- Smith, Arthur E., Los Angeles, Calif. Ampul. 1,718,595; June 25.
- Smith, Arthur E., Los Angeles, Calif. Automatic syringe. 1,718,596; June 25.
- Smith, Arthur E., Los Angeles, Calif. Syringe ampul. 1,718,597; June 25.
- Smith, Arthur E., Los Angeles, Calif. Syringe. 1,718,598; June 25.
- Smith, Arthur E., Los Angeles, Calif. Syringe construction. 1,718,599; June 25.
- Smith, Arthur E., Los Angeles, Calif. Syringe device. 1,718,600; June 25.
- Smith, Arthur E., Los Angeles, Calif. Dental syringe. 1,718,601; June 25.
- Smith, Arthur E., Los Angeles, Calif. Syringe construction. 1,718,602; June 25.
- Smith, Arthur E., Los Angeles, Calif. Ampul. 1,718,603; June 25.
- Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe. 1,718,604; June 25.
- Smith, Arthur E., Los Angeles, Calif. Hypodermic syringe. 1,718,605; June 25.
- Smith, Arthur E., Los Angeles, Calif. Closure for collapsible tubes. 1,738,080; Dec. 3.
- Smith, Arthur E., Los Angeles, Calif. Receptacle closure. 1,739,871; Dec. 17.
- Smith, Arthur E., Los Angeles, Calif. Tube closure. 1,739,922; Dec. 17.
- Smith, Arthur G., assignor to S. Morgan Smith Company, York, Pa. Shutting-down means for hydraulic turbines. 1,717,071; June 11.
- Smith, Arthur R., Schenectady, N. Y. Flooring and the like. 1,714,738; May 28.
- Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Conveying fluids. 1,714,893; May 28.
- Smith, Arthur R., Schenectady, N. Y., assignor by mesne assignments, to Bailey Meter Company. Furnace regulation. 1,736,752; Nov. 19.
- Smith, Arthur R., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Furnace regulation. 1,736,753; Nov. 19.
- Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Steam condenser. 1,738,455; Dec. 3.
- Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Condenser boiler. 1,740,318; Dec. 17.
- Smith, Arthur R., deceased, Fort Wayne, Ind.; I. Smith, administratrix, assignor of one-half to J. S. Smith and one-half to I. Smith. Smoke producer. 1,713,055; May 14.
- Smith, Arthur R., deceased, Cleveland, Ohio; I. Smith, administratrix, assignor of one-half to J. S. Smith and one-half to I. Smith. Smoke producer. 1,713,056; May 14.



- Smith, Arthur, and C. Southall, Birmingham, England. Automatic weighing machine. 1,729,192; Sept. 24.
- Smith, Arthur W. (See Smith, Herbert E. and A. W.)
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,702,420; Feb. 19.
- Smith, Arvey, Winchester, Ill., assignor to Koehring Company, Milwaukee, Wis. Derrick. 1,736,419; Nov. 19.
- Smith, Asa B. (See McCullough, E. S., and Smith.)
- Smith, Augustus, Roselle, assignor to Bergen Point Iron Works, Bayonne, N. J. Raft of floating pontoons. 1,723,213; Aug. 6.
- Smith, B. D. (See Smith, Blanchard D.)
- Smith, Ben R., Pensacola, Fla. Railway-signal-locking device. 1,710,519; Apr. 23.
- Smith, Benjamin B., Tullahoma, Tenn. Baseball bat. 1,706,680; Mar. 26.
- Smith, Benjamin H., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,699,762; Jan. 22.
- Smith, Benjamin H., Maplewood, and C. Anderson, Newark, N. J., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument casing. 1,734,236; Nov. 5.
- Smith, Benjamin M., Limon, Colo. Vertical rotatable show case. 1,717,943; June 18.
- Smith, Bennett A. (See McGee, William C., assignor.)
- Smith, Bert, Passaic, N. J., assignor to American Throttle Company Inc., New York, N. Y. Balanced multiple throttle. 1,718,388; June 25.
- Smith, Bert C. (See Heinen, J., and Smith.)
- Smith, Blanchard D., assignor, by mesne assignments, to M. M. Schaumburger and E. H. McCaleb, as trustees for W. H. Williams and B. D. Smith, New Orleans, La., and Southern Pecan Co., Inc. Nutcracker. 1,724,049; Aug. 13.
- Smith, Bonetta A. (See Smith, Wallace D. and B. A.)
- Smith, Carlton R. (See Littleton, J. T., and Smith.)
- Smith, Carlton V., Coquille, Oreg. Detonating device. 1,732,865; Oct. 22.
- Smith, Carter. (See Lillich, H. R., and Smith.)
- Smith, Charles A. (See Cross, C. S., and Smith.)
- Smith, Charles A., et al. (See Fraser, Fred W., assignor.)
- Smith, Charles A., and K. E. Berray, Lockport, N. Y. Box construction. 1,706,328; Mar. 19.
- Smith, Charles, assignor of one-half to W. Casey, Chicago, Ill. Transmitting variable rotation. 1,729,911; Oct. 1.
- Smith, Charles, assignor of one-half to W. Casey, Chicago, Ill. Variable radio tuning device. 1,737,063; Nov. 26.
- Smith, Charles F., assignor to Public Service Cup Company, Brooklyn, N. Y. Paper-cup machine. 1,710,246; Apr. 23.
- Smith, Charles F., assignor to Public Service Cup Company, Brooklyn, N. Y. Machine for packaging paper tubes. 1,722,019; July 23.
- Smith, Charles F., assignor to Public Service Cup Company, Brooklyn, N. Y. Machine for making spirally-wound tubes. 1,723,258; Aug. 6.
- Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Drain for washing machines. 1,737,981; Dec. 3.
- Smith, Charles G., Medford, assignor to Raytheon Inc., Cambridge, Mass. Production of pulsating current. 1,713,356; May 14.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Inc., Cambridge Mass. Electrical apparatus. 1,714,402; May 21.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Inc., Cambridge, Mass. Electrical apparatus. 1,714,403; May 21.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Inc., Cambridge, Mass. Electrical apparatus. 1,714,404; May 21.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Inc., Cambridge, Mass. Electrical apparatus. 1,714,405; May 21.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Inc., Cambridge, Mass. Method and apparatus for causing electrical conduction. 1,714,406; May 21.
- Smith, Charles G., Medford, assignor, by mesne assignments, to Raytheon Inc., Cambridge, Mass. Gaseous conduction apparatus. 1,714,407; May 21.
- Smith, Charles G., Medford, assignor to Raytheon Inc., Cambridge, Mass. Rectifier. 1,731,944; Oct. 15.
- Smith, Charles G., Medford, assignor to Raytheon Inc., Cambridge, Mass. Electric discharge device. 1,731,945; Oct. 15.
- Smith, Charles H. (See Ledebor, Adrian L. H., assignor.)
- Smith, Charles H., deceased, Yucaipa, Calif., G. S. Morrell and H. L. Smith, executors. Ventilating apparatus. 1,734,449; Nov. 5.
- Smith, Charles L., Ponca, Nebr. Scythe. 1,715,575; June 4.
- Smith, Charles L., assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Cutting machine. 1,726,369; Aug. 27.
- Smith, Charles M., assignor of nine-twentieths to A. Jefferson and nine-twentieth to S. H. Mathews, Hot Springs, Ark. Safety cut-off valve for gas lines. 1,704,633; Mar. 5.
- Smith, Charles S., et al., executors. (See Ingersoll, Robert H.)
- Smith, Charles S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Electrically-welded torsion-resisting crossbar. 1,704,843; Mar. 12.
- Smith, Charles T., Stevenson, Wash. Seining apparatus. 1,719,202; July 2.
- Smith, Charles W., Vallejo, Calif. Windshield protector. 1,716,467; June 11.
- Smith, Charles W., Green Island, N. Y. Card-game score indicator. 1,714,929; May 28.
- Smith, Clarence B., assignor of one-half to L. Frankel, Atlanta, Ga. Stocking. Des. 77,715; Feb. 12.
- Smith, Clarence E. (See Hand, C. N., and Smith.)
- Smith, Clarence E. (See Russ, J. B., and Smith.)
- Smith, Clarence E., Naugatuck, assignor to J. B. Russ, Shelton, Conn. Webbing buckle. 1,704,264; Mar. 5.
- Smith, Clifford F., Sioux Falls, S. Dak. Water-softener apparatus. 1,719,908; July 9.
- Smith, Clinton F., Attleboro, Mass. Fret for musical instruments. 1,727,620; Sept. 10.
- Smith, Clyde L., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Manufacturing tires. 1,734,023; Oct. 29.
- Smith & Crosby. (See Gammell, O. L., and Woodward, assignors.)
- Smith, Curtiss F., West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Handle socket. 1,734,503; Nov. 5.
- Smith, Cuthbert C., Twickenham, assignor to The General Motor and Tyre Company, London, England. Apparatus for controlling the filling of vessels with liquid. 1,706,942; Mar. 26.
- Smith, David B., Los Angeles, Calif. Concrete-form tie and spacer. 1,720,697; July 16.
- Smith, David B., Los Angeles, Calif. Concrete-form tie and spacer. 1,735,017; Nov. 12.
- Smith, David F., Washington, D. C. Refrigerator car. 1,712,905; May 14.
- Smith & Davis Manufacturing Company. (See Duvall, William J., assignor.)
- Smith, Dearcy A., assignor to The Askew Saddlery Co., Kansas City, Mo. Horse-collar neck pad. 1,715,432; June 4.
- Smith, Dennis W., assignor to Colborne Manufacturing Company, Chicago, Ill. Dough-rolling machine. 1,699,815; Jan. 22.
- Smith, Dennis W., Wilmette, assignor to Colborne Manufacturing Company, Chicago, Ill. Pie machine. 1,725,835; Aug. 27.
- Smith, Dennis W., Wilmette, assignor to Colborne Manufacturing Company, Chicago, Ill. Pie trimmer. 1,728,702; Sept. 17.
- Smith, Dennis W., Wilmette, assignor to Colborne Manufacturing Company, Chicago, Ill. Dough roller. 1,728,703; Sept. 17.
- Smith, Drum & Company. (See Brewin, H. E., and Mackey, assignors.)
- Smith, Drum & Company. (See Drum, G. E., and Skitt, assignors.)
- Smith, Drum & Company. (See Jaxheimer, William H., assignor.)
- Smith, E. Payson. (See Brown, Lloyd J., assignor.)
- Smith, E. Payson. (See Harbert, Victor H., assignor.)
- Smith, E. Payson. (See Heidman, G., and Harbert, assignors.)
- Smith, E. Payson. (See Johnson, Malcolm S., assignor.)
- Smith, E. Payson. (See Koopmans, Lambert C., assignor.)
- Smith, E. Payson. (See McMullen, John, assignor.)
- Smith, E. Payson. (See Moody, W. O., and Brown, assignors.)
- Smith, E. Payson. (See Wright, William, assignor.)
- Smith, Earl B., assignor to Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa. Strain gauge. 1,708,333; Apr. 9.
- Smith, Earl C., assignor to Central Alloy Steel Corporation, Massillon, Ohio. Ingot and mold for making same. 1,720,383; July 9.
- Smith, Edgar W., Keene, N. H. Tool-handle extractor. 1,701,699; Feb. 12.
- Smith, Edward E., Providence, R. I. Window-tensioning device. 1,726,002; Aug. 27.
- Smith, Edward J., Lincoln, Nebr. Tuning peg for violins and other string instruments. 1,732,172; Oct. 15.
- Smith, Edward M., Peoria, assignor to Brown Lynch Scott Co., Monmouth, Ill. Wheeled-barrow frame adjustment. 1,740,841; Dec. 24.
- Smith, Edward P. (See Mathews, Fred, assignor.)
- Smith, Edward R., Malden, assignor to Muther Manufacturing Company, Boston, Mass. Measuring instrument. 1,712,055; May 7.
- Smith, Edwin R., and R. A. Ashton, assignors to Seneca Falls Machine Co., Seneca Falls, N. Y. Steady rest. 1,736,378; Nov. 19.
- Smith, Eggleston, Mamaroneck, N. Y., assignor to Eggleston Drilling Corporation, Dover, Del. Core drilling and extracting device. 1,716,092; June 4.
- Smith, Elmer, et al. (See Kellow, James H., assignor.)
- Smith, Elmer H., Minneapolis, Minn. Fluid-control valve. 1,703,180; Feb. 26.
- Smith, Elmer H., Minneapolis, Minn. Controlling means for carbide feeders. 1,709,885; Apr. 23.
- Smith, Elmer H., Minneapolis, Minn. Acetylene-gas generator. 1,736,673; Nov. 19.
- Smith, Elmer H., Minneapolis, Minn., and H. E. Gannett, Berwyn, Ill. Cutting torch. 1,709,886; Apr. 23.



- Smith, Elmer H., assignor to Dial Toaster Corporation, Minneapolis, Minn. Bread toaster. 1,720,451; July 9.
- Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping machine. 1,731,946; Oct. 15.
- Smith, Elmer L., and H. J. Paynter, assignors to Package Machinery Company, Springfield, Mass. Yeast-cake forming and wrapping machine. 1,721,176; Feb. 12.
- Smith, Elmer L., and F. B. Fuller, assignors to Package Machinery Company, Springfield, Mass. Package. 1,718,441; June 25.
- Smith, Elmer L., Springfield, Mass., and H. J. Paynter, South Orange, N. J., assignors to Package Machinery Company, Springfield, Mass. Wrapping machine. 1,734,921; Nov. 5.
- Smith, Elmer L., Longmeadow, and A. E. Phelon, assignors to Package Machinery Company, Springfield, Mass. Apparatus for setting up cartons. 1,739,619; Dec. 17.
- Smith Engineering Works. (See Munro, Alexander L., assignor.)
- Smith Engineering Works. (See Rumpel, Harvey H., assignor.)
- Smith, Erasmus B., Ottawa, Kans. Signaling device. 1,707,884; Apr. 2.
- Smith, Ernest C., Chicago, Ill., assignor to International Harvester Company. Drive mechanism for spreaders. 1,729,090; Sept. 24.
- Smith, Ernest J., London, England, assignor to The Goss Printing Press Company, Chicago, Ill. Matrix-forming machinery. 1,715,013; May 28.
- Smith, Ernest J., London, England, assignor to The Goss Printing Press Company, Chicago, Ill. Cleaning of the inking rollers and printing cylinders of printing machines. 1,730,302; Oct. 1.
- Smith, Ernest J., London, England, assignor to The Goss Printing Press Company, Chicago, Ill. Inking mechanism for printing presses. 1,730,303; Oct. 1.
- Smith, Errett G., Washington, D. C. Valve installation. 1,708,805; Apr. 9.
- Smith, Ezra S., assignor to R. F. Simmons Company, Attleboro, Mass. Collar holder. 1,722,712; July 30.
- Smith, F. A., Manufacturing Co. Inc., The. (See Toppin, H., and Stevenson, assignors.)
- Smith, Francis, Silt, Colo. Haystacker. 1,714,930; May 28.
- Smith, Frank, Elland, England. Shock-absorbing device for motor road vehicles. 1,716,468; June 11.
- Smith, Frank, Elland, England. Extra air valve for internal-combustion engines. 1,726,864; Sept. 3.
- Smith, Frank, Salem, Ohio. Furniture construction. 1,736,511; Nov. 19.
- Smith, Frank B., Pittsburgh, Pa. Railroad-crossing signal. 1,723,895; Aug. 6.
- Smith, Frank E., Scottsdale, Pa. Tandem drive for conveyers. 1,706,501; Mar. 26.
- Smith, Frank E., Scottsdale, Pa. Car-dumping apparatus. 1,717,124; June 11.
- Smith, Frank L., J. S. Caulfield, and C. J. Peterson, Sacramento, Calif., assignors to The Super Mould Company, Reno, Nev. Tire-retreading mold. 1,710,804; Apr. 30.
- Smith, Frank S., Gloucester, N. J. Tête-à-tête rocking-chair. 1,730,304; Oct. 1.
- Smith, Franklin, Brooklyn, N. Y., assignor to American Machine & Foundry Company. Method of and apparatus for coating metal. 1,710,747; Apr. 30.
- Smith, Franklin P. (See McClure, Edward, assignor.)
- Smith, Franklin P. (See Smith, James D., assignor.)
- Smith, Franklin S., Philadelphia, Pa. Lightning arrester. 1,717,589; June 18.
- Smith, Franklin S., Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y. Transformer. 1,703,408; Feb. 26.
- Smith, Franklin S., Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y. High-voltage terminal. 1,703,409; Feb. 26.
- Smith, Franklin S., Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y. Electric transformer. 1,703,410; Feb. 26.
- Smith, Franklin S., Brooklyn, assignor to The Products Protection Corporation, New York, N. Y. Cooling means for insulated electrodes. 1,705,033; Mar. 12.
- Smith, Fred B. (See Smith, Henry A. and F. B.)
- Smith, Fred L., jr., Plainfield, N. J. Automatic window safety latch. 1,739,097; Dec. 10.
- Smith, Fred M., Vancouver, British Columbia, Canada. Vending machine. 1,732,422; Oct. 22.
- Smith, Fred T., and D. O. Ellis, Woodville, Pa. Mechanical chair. 1,700,088; Jan. 22.
- Smith, Frederick A., Lexington, Va. Clarifying apparatus. 1,733,031; Oct. 22.
- Smith, Fredrick A., Indianapolis, Ind., assignor, by mesne assignments, to Detroit and Security Trust Company. Tire carrier. 1,733,318; Oct. 29.
- Smith, Fredrick A., Indianapolis, Ind., assignor, by mesne assignments, to Detroit and Security Trust Company. Ring-type tire carrier. 1,733,319; Oct. 29.
- Smith, Garrett. (See Tuomi, Uno E., assignor.)
- Smith, George A., Kenmore, Ohio. Headlight construction. 1,714,248; May 21.
- Smith, George B. (See Davis, Henry F., assignor.)
- Smith, George E., Berkeley, Calif. Shooting gallery. 1,731,897; Oct. 15.
- Smith, George E., assignor to American Engineering Company, Philadelphia, Pa. Electrically-operated towing machine. 1,736,674; Nov. 19.
- Smith, George F., Urbana, Ill. Magnesium perchlorate. 1,738,930; Dec. 10.
- Smith, George G., and G. G. Stoup, Franklin, Va. Automobile jack. 1,741,343; Dec. 31.
- Smith, George G. (See Stoup, G., and Smith.)
- Smith, George L., Boston, Mass. Fastening device. 1,742,014; Dec. 31.
- Smith, George L., assignor to United States Ordnance Company, Washington, D. C. Four-wheel-brake system. Re17,426; Sept. 3.
- Smith, George L., assignor to Swayne-Robinson & Co., Richmond, Ind. Molder's flask. 1,710,325; Apr. 23.
- Smith, George L., assignor to United States Ordnance Company, Washington, D. C. Friction brake for automotive vehicles. 1,734,535; Nov. 5.
- Smith, George M., Oberlin, Ohio. Dishwashing attachment. 1,726,930; Sept. 3.
- Smith, George M., Cleveland Heights, assignor of one-half to C. W. Hopkins, Lakewood, Ohio. Pencil sharpener. Des. 78,226; Apr. 9.
- Smith, George M., assignor to Commonwealth Edison Company, Chicago, Ill. Sign. Des. 79,108; July 30.
- Smith, George R., Phoenix, Ariz. Temperature indicator for internal-combustion motors. 1,707,030; Mar. 26.
- Smith, George S., Pittsburgh, Pa., assignor, by mesne assignments, to Pittsburgh Screw and Bolt Corporation. Metal-working machine for making punched nut blanks. 1,702,320; Feb. 19.
- Smith, George S., Pittsburgh, Pa., assignor to Pittsburgh Screw and Bolt Corporation. Nut machine. 1,730,483; Oct. 8.
- Smith, George S., Pittsburgh, Pa., assignor, by mesne assignments, to Pittsburgh Screw and Bolt Corporation. Stock-feeding mechanism. 1,732,821; Oct. 22.
- Smith, George S., Pittsburgh Pa. assignor to Pittsburgh Screw and Bolt Corporation. Nut machine. 1,738,124; Dec. 3.
- Smith, Gerald F., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-generating system. 1,730,340; Oct. 1.
- Smith, Glen W. (See Duvall, J., and Smith.)
- Smith, Glenn A., Los Angeles, Calif. Can packing and testing machine. 1,698,030; Jan. 8.
- Smith, Goldwin, Tampa, Fla. Game. 1,706,329; Mar. 19.
- Smith, Goodwin B., New York, N. Y. Coin-controlled vending machine. 1,718,495; June 25.
- Smith, Goodwin B., New York, N. Y. Coin-controlled vending machine. 1,732,990; Oct. 22.
- Smith, Gordon, Southend-on-Sea, England, assignor to Chester-Pollard Amusement Company, Inc., New York, N. Y. Coin-freed apparatus for playing football and other like games. 1,702,367; Feb. 19.
- Smith, Gordon, Thorpe Bay, England, assignor, by mesne assignments, to Chesterfield Control Company, Dover, Del. Mechanical ball game. 1,725,546; Aug. 20.
- Smith, Grant, Toronto, Ontario, Canada. Water heater. 1,716,508; June 11.
- Smith, Grant E., Poughkeepsie, N. Y. Wooden steering wheel and making the same. 1,697,616; Jan. 1.
- Smith, Grant E., Poughkeepsie, N. Y. Drop hammer. 1,709,599; Apr. 16.
- Smith, Grant E., assignor to Pouvaillsmith Corporation, Poughkeepsie, N. Y. Steering-wheel and forming same. 1,740,750; Dec. 24.
- Smith, Gustavus A., assignor to B. M. Roberts, Long Beach, Calif. Shoulder brace and trouser support. 1,699,453; Jan. 15.
- Smith, H. B., Company. (See Reed, William B., assignor.)
- Smith, H. B., Machine Company. (See Pinkney, Bryan D., assignor.)
- Smith, H. C., Manufacturing Company. (See Phipps, John T., assignor.)
- Smith, H. M. (See Thornton, W. C., and Cameron, assignors.)
- Smith, Harold. (See Randles, J. T. T., Willshaw, and Smith.)
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric and Manufacturing Company. High-tension transformer. 1,699,763; Jan. 22.
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,702,421; Feb. 19.
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,729,691; Oct. 1.
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. High-potential insulator structure. 1,730,169; Oct. 1.
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,730,170; Oct. 1.
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,730,171; Oct. 1.
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,730,250; Oct. 1.
- Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Arc-gap device. 1,731,873; Oct. 15.
- Smith, Harold E., Cleveland Heights, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Timing mechanism. 1,705,271; Mar. 12.
- Smith, Harold E., Cleveland Heights, Ohio. Electric connection. 1,739,019; Dec. 10.



- Smith, Harold F., Lomita, Calif. Artificial foot. 1,704,065; Mar. 5.
- Smith, Harold K., Chicago, Ill., assignor to The Symington Company, New York, N. Y. Combined striking casting and carry iron. 1,719,088; July 2.
- Smith, Harry B., Brooklyn, N. Y., assignor, by mesne assignments, to Hoague-Sprague Corporation, Lynn, Mass. Box structure. 1,712,970; May 14.
- Smith, Harry B., New York, N. Y., assignor, by mesne assignments, to Hoague-Sprague Corporation, Lynn, Mass. Machine for shaping box blanks and similar purposes. 1,712,971; May 14.
- Smith, Harry D., East St. Louis, Ill., assignor to St. Louis Pump & Equipment Company, St. Louis, Mo. Dispensing apparatus. 1,717,944; June 18.
- Smith, Harry D., East St. Louis, Ill., and W. D. Smith, Maplewood, assignors to St. Louis Pump and Equipment Company, St. Louis, Mo. Dispensing apparatus. 1,732,543; Oct. 22.
- Smith, Harry E., Tooele, Utah. Film take-up device. 1,733,830; Oct. 29.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Furnace control. 1,697,209; Jan. 1.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Furnace. 1,697,373; Jan. 1.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Gas-producing apparatus. 1,699,166; Jan. 15.
- Smith, Harry F., assignor to The Gas Research Company, Dayton, Ohio. Gas producer. 1,724,525; Aug. 13.
- Smith, Harry J., Lakewood, Ohio. Agitator. 1,733,244; Oct. 29.
- Smith, Harry L., et al., executors. (See Smith, Charles H.)
- Smith, Harvey E., assignor of one-half to W. E. Richter, Tacoma, Wash. Tire-inflating apparatus. 1,699,378; Jan. 15.
- Smith, Harvey G., Salina, Kans. Auxiliary headlight bracket for motor vehicles. 1,719,566; July 2.
- Smith, Harvey S., assignor of one-half to O. R. Seagraves, Houston, and W. L. Moody III, Galveston, Tex. Apparatus for cleaning well-casing screens. 1,736,017; Nov. 19.
- Smith, Henry, Port Huron, Mich. Mowing attachment for tractors. 1,711,753; May 7.
- Smith, Henry A. and F. B., Braintree, Mass. Pumping system. 1,717,812; June 18.
- Smith, Henry C., Chicago, Ill. Holding means for railway brakes. 1,699,212; Jan. 15.
- Smith, Henry D. (See Dansby, B., and Smith.)
- Smith, Henry J., Minneapolis, Minn. Surgical retractor. 1,706,500; Mar. 26.
- Smith, Henry O., Detroit, Mich. Scraper. 1,718,496; June 25.
- Smith, Henry S., Dixon, Ill., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Two-way power lift plow. 1,713,928; May 21.
- Smith, Henry W., Menlo Park, Calif. Door attachment. 1,729,902; Oct. 1.
- Smith, Herbert A., St. Paul, Minn. Check-book holder. 1,698,828; Jan. 15.
- Smith, Herbert C., assignor to D. T. Stevens, University City, Mo. Visible measure. 1,710,119; Apr. 23.
- Smith, Herbert D., assignor to Hampshire Implement Company, Hatfield, Mass. Fertilizer distributor. 1,722,713; July 30.
- Smith, Herbert E. and A. W., Gloucester, Mass. Humidifier. 1,706,903; Mar. 26.
- Smith, Herbert E. and A. W., Gloucester, Mass. Humidifier. 1,706,904; Mar. 26.
- Smith, Herbert G., Marshall, Tex. Resistance rheostat. 1,707,147; Mar. 26.
- Smith, Herman B., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Dampener. 1,734,450; Nov. 5.
- Smith, Herman B., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,735,983; Nov. 12.
- Smith, Herman B., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Method and apparatus for utilizing waste heat. 1,741,663; Dec. 31.
- Smith, Herman C. (See Phipps, J. T., and Smith.)
- Smith, Herman H., Brooklyn, N. Y. Pavement. 1,711,547; May 7.
- Smith, Herman H., Brooklyn, N. Y. Metallized walkway surface. 1,733,471; Oct. 29.
- Smith, Herman R., Douglaston, assignor to Raymond Concrete Pile Company, New York, N. Y. Apparatus for handling concrete piles. 1,723,086; Aug. 6.
- Smith, Hinsdale, Springfield, Mass., assignor to I. M. Upercu, New York, N. Y. Front-wheel drive mechanism. 1,720,064; July 9.
- Smith, Hinsdale, Springfield, Mass., assignor to I. M. Upercu, New York, N. Y. Spring suspension for vehicles. 1,727,415; Sept. 10.
- Smith, Hiram K., Detroit, Mich. Collapsible ladder. 1,712,942; May 14.
- Smith, Homer P. (See Rittenhouse, G. W., and Smith.)
- Smith, Horatio W., Los Angeles, assignor, by mesne assignments, to Eight-Wheel Motor Vehicle Company, San Francisco, Calif. Automatic driving clutch. 1,738,212; Dec. 3.
- Smith, Howard E., and L. F. Julien, assignors to Chamberlain Metal Weather Strip Company, Detroit, Mich. Weather strip. 1,718,929; June 25.
- Smith, Howard F., Houston, Tex. Anchor for pipes in wells. 1,713,150; May 14.
- Smith, Howard W., Ellwood City, Pa. Pipe-threading die. 1,700,185; Jan. 29.
- Smith, Hubert J., Long Beach, Calif. Oil and water separator. 1,716,934; June 11.
- Smith, Hugh B., Sawtelle, Calif. Auto camp table. 1,706,192; Mar. 19.
- Smith, Hurlburt W., et al. (See Meldrum, Alexander, assignor.)
- Smith, Ida, administratrix. (See Smith, Arthur R.)
- Smith, Ida, et al. (See Smith, Arthur R., assignor.)
- Smith, Ira, Grayslake, Ill. Lawn trimmer. 1,707,819; Apr. 2.
- Smith, Ira W., Newark, N. J., assignor to B. L. Akins, Inc., Advertising display device. 1,735,883; Nov. 19.
- Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Furnace. 1,721,840; July 23.
- Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Automatic control apparatus. 1,729,186; Sept. 24.
- Smith, Irving R. (See Golladay, L. R., and Smith.)
- Smith, Isidore P., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Hunting coat. 1,723,214; Aug. 6.
- Smith, J. Clifford, Bellflower, assignor of one-half to E. Dickman, La Habra, Calif. Rod guide. 1,706,499; Mar. 26.
- Smith, Jacob F. (See Parson, W. O., and Smith.)
- Smith, James A., assignor to Outside Arch, Inc., Washington, D. C. Foot-arch support. 1,728,219; Sept. 17.
- Smith, James C., Cincinnati, Ohio. Boring machine. 1,698,971; Jan. 15.
- Smith, James D., Charlotte, N. C. Garment drier. 1,739,923; Dec. 17.
- Smith, James D., assignor of one-half to F. P. Smith, Chicago, Ill. Retaining device for the closures of collapsible tubes and other containers. 1,732,571; Oct. 22.
- Smith, James E., South Portland, Me. Safety appliance for railways. 1,726,865; Sept. 3.
- Smith, James O., Kiefer, Okla. Toy horse. 1,732,991; Oct. 22.
- Smith, James O., Mounds, Okla. Wire-stretching tool. 1,739,658; Dec. 17.
- Smith, James R., assignor of one-fourth to G. A. Kingstone, one-fourth to J. R. Tate, and one-fourth to H. C. Barber, Toronto, Ontario, Canada. Combined electric fuse and switch. 1,697,934; Jan. 8.
- Smith, James S., et al. (See Smith, Arthur R., assignor.)
- Smith, James T., Malden, Mass. Combined calendar and container. 1,697,578; Jan. 1.
- Smith, James W., Baltimore, Md., assignor to The Lamson & Sessions Company, Cleveland, Ohio. Reciprocating tool holder of metal-working machines. 1,718,987; July 2.
- Smith, James W., Memphis, Tenn. Road sign. 1,735,444; Nov. 12.
- Smith, Jamie H., et al. (See Bailey, Harlow, jr., assignor.)
- Smith, Jared E., Galveston, Tex. Composition of matter. 1,711,754; May 7.
- Smith, Jay H., Glendale, Calif. Gas-regulating valve. 1,703,283; Feb. 26.
- Smith, Jay H., Glendale, Calif. Gas regulating valve. 1,712,313; May 7.
- Smith, Jay W., Algonac, Mich. Runabout boat. Des. 79,534; Oct. 1.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,698,926; Jan. 1.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,698,244; Jan. 8.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and card-perforating machine. 1,698,829; Jan. 15.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and computing machine. 1,705,073; Mar. 12.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,705,945; Mar. 19.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,705,946; Mar. 19.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,712,636; May 14.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,713,563; May 21.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Printed paper web. 1,714,574; May 28.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,723,663; Aug. 6.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,730,904; Oct. 8.



- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-writing machine. 1,733,472; Oct. 29.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Carbon-sheet-attaching means. 1,735,138; Nov. 12.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-writing machine. 1,738,674; Dec. 10.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,739,739; Dec. 17.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-writing machine. 1,741,545; Dec. 31.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Type-writing machine. 1,741,664; Dec. 31.
- Smith, Jesse C., New York, N. Y. Refrigeration. 1,731,546; Oct. 15.
- Smith, John A., Spokane, Wash. Spectacles and goggles. 1,739,049; Dec. 10.
- Smith, John B. (See Olin, J. M., and Smith.)
- Smith, John C. W., assignor to R. P. Miller, Bloomington, Ill. Automobile shade. 1,708,035; Apr. 9.
- Smith, John D., Dunedin Otago, New Zealand. Apparatus relating to molding units. 1,720,611; July 9.
- Smith, John E., Sons Co. (See Van Hooydonk, Adrian C., assignor.)
- Smith, John H. (See Carozza, A. T., and Smith.)
- Smith, John H. (See Gross, Joseph, assignor.)
- Smith, John H., Luling, Tex. Automatic water-discharge device for oil tanks. 1,722,160; July 23.
- Smith, John H., Luling, Tex. Safety clutch. 1,735,799; Nov. 12.
- Smith, John H., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,721,261; July 16.
- Smith, John J., Toronto, Ontario, Canada. Dirigible headlight. 1,726,196; Aug. 27.
- Smith, John O. (See Woodman, W. S., and Smith.)
- Smith, John R., Los Angeles, Calif. Door-latch mechanism. 1,711,213; Apr. 30.
- Smith, John W., Philadelphia Pa. Making metal wheels. 1,714,144; May 21.
- Smith, John W., Philadelphia, Pa. Rolling disk wheels. 1,730,694; Oct. 8.
- Smith, John W., Philadelphia, Pa. Two-stage process of fabricating individual shapes. 1,731,277; Oct. 15.
- Smith, John W., Syracuse, N. Y. Stream-unifying apparatus. 1,720,244; July 9.
- Smith, John W., Syracuse, N. Y. Mixing device. 1,720,245; July 9.
- Smith, John W., Syracuse, N. Y. Fuel-mixing device. 1,720,246; July 9.
- Smith, John W., Syracuse, N. Y. Mixing device. 1,720,247; July 9.
- Smith, John W., Normal, Ill. Nut sheller. 1,720,575; July 9.
- Smith, Joseph B., Salt Lake City, Utah. Brooder stove. 1,700,183; Jan. 29.
- Smith, Joseph B., Havana, Ill. Display device. 1,736,225; Nov. 19.
- Smith, Joseph E., Crescent City, Calif. Spare-tire carrier and rim expanding and contracting device. 1,730,789; Oct. 8.
- Smith, Joseph L., and R. A. Dininger, Plymouth, Ohio. Heat-projecting windshield wiper. 1,718,802; June 25.
- Smith, Joseph L., Buffalo, assignor to De Luxe Electric Lighter Company, Inc., New York, N. Y. Lighting device. 1,735,018; Nov. 12.
- Smith, Joseph M., San Francisco, Calif. Device for dimensionally gauging objects. 1,733,320; Oct. 29.
- Smith, Joseph N., & Company. (See Mulligan, Leonard A., assignor.)
- Smith, Justice E. (See Smith, Skardon T., assignor.)
- Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Pump. 1,726,633; Sept. 3.
- Smith, Kenneth V. (See McConkey, W. N., and Smith.)
- Smith, L. C., & Corona Typewriters Inc. (See Avery, Henry A., assignor.)
- Smith, L. C., & Corona Typewriters Inc. (See Avery, H. A., Petermann, and Harmon, assignors.)
- Smith, L. C., & Corona Typewriters Inc. (See Ely, Alonzo B., assignor.)
- Smith, L. C., & Corona Typewriters Inc. (See Ely, A. B., and Harmon, assignors.)
- Smith, L. C., & Corona Typewriters Inc. (See Gabrielson, Carl, assignor.)
- Smith, Laurence A., Kansas City, Mo. Window and door hangings fixture support. 1,709,236; Apr. 16.
- Smith, Lawrence C., Detroit, Mich. Float valve. 1,734,604; Nov. 5.
- Smith, Lawrence H. (See Wichmann, O., and Smith.)
- Smith, Leatham D., Sturgeon Bay, Wis. Self-unloading apparatus for cargo carriers. 1,741,167; Dec. 31.
- Smith, Lee T., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Reclaiming rubber from scrap. 1,737,775; Dec. 3.
- Smith, Lena, and R. Richmond, Chicago, Ill. Bucket. 1,734,352; Nov. 5.
- Smith, Leo O., Brooklyn, assignor to Columbia Machine Works and Malleable Iron Company, New York, N. Y. Vehicle lift. 1,727,182; Sept. 3.
- Smith, Leonard C., Chicora, Miss. Saw guide. 1,704,581; Mar. 5.
- Smith, Leonard E., Corpus Christi, Tex., assignor to International Harvester Company. Truck for tractor-drawn implements. 1,740,751; Dec. 24.
- Smith, Leonard S., jr. (See Smith, Leonard S., assignor.)
- Smith, Leonard S., deceased, assignor of one-half to L. S. Smith, jr., Cincinnati, Ohio; L. S. Smith, jr., executor. Laundering apparatus. 1,738,326; Dec. 3.
- Smith, Lloyd, and J. W. Scott, Kennard, Ind. Electric socket. 1,710,717; Apr. 30.
- Smith, Lloyd B., Topeka, Kans. Jetty construction. 1,716,509; June 11.
- Smith, Louis P., Ithaca, N. Y. Sight rib for guns. 1,705,423; Mar. 12.
- Smith, Lucy C., Chicago, Ill. Cord take-up and protector. 1,734,605; Nov. 5.
- Smith, Luther E., Shelburne Falls, Mass. Borer's gum. 1,705,100; Mar. 12.
- Smith, Marie P., Grand Rapids, Mich. Wardrobe closet. 1,715,477; June 4.
- Smith, Marvin A., et al. (See Wagner, Hans, assignor.)
- Smith, Mary P., Denver, Colo. Fruit evaporator. Re17,370; July 9.
- Smith, Mason, Baltimore, Md. Clip for writing pens. 1,697,545; Jan. 1.
- Smith, Morton, Stapleford, England. Treatment of wood and like porous material. 1,699,635; Jan. 22.
- Smith, Nelson K., Los Angeles, Calif., assignor, by mesne assignments, to The Guiberson Corporation, Dallas, Tex. Well apparatus. 1,715,576; June 4.
- Smith, Nelson K., Los Angeles, Calif., assignor to Byron Jackson Pump Co., West Berkeley, Calif. Well apparatus. 1,716,905; June 11.
- Smith, Nelson K., Los Angeles, assignor to Byron Jackson Pump Co., West Berkeley, Calif. Hoist. 1,716,906; June 11.
- Smith, Newell N., Los Angeles, Calif., assignor to Davis Standard Bread Company. Doughnut shaping and feeding machine. 1,703,434; Feb. 26.
- Smith, Newton I., Altoona, Pa. Clamp for electric conductors. 1,704,305; Mar. 5.
- Smith, Nicholls J., Bainbridge, Ga. Fishing reel. 1,719,246; July 2.
- Smith, Norman, Colorado Springs, Colo. Filter. 1,720,384; July 9.
- Smith, Norman C., Pittsburgh, Pa. Machine for making hats and the like. 1,727,416; Sept. 10.
- Smith, Norman H. (See Rinehart, H. E., and Smith.)
- Smith, Norvin E., Des Moines, Iowa. Hairpin. 1,711,908; May 7.
- Smith, Oliver L., Kansas City, Kans. Spreading machine. 1,702,525; Feb. 19.
- Smith, Paul C., assignor to Swift & Company, Chicago, Ill. Preparing animal carcasses for market. 1,719,030; July 2.
- Smith, Paul C., and J. C. Agar, assignors to Swift & Company, Chicago, Ill. Beef-chilling rack. 1,721,139; July 16.
- Smith, Paul S., assignor, by mesne assignments, to Orr Fabrics Corporation, Newark, N. J. Textile fabric and making the same. 1,726,634; Sept. 3.
- Smith, Percy C., assignor to J. F. Meyer, Chicago, Ill. Stereoscopic-exhibiting-machine reel. 1,704,022; Mar. 5.
- Smith, Percy C., assignor to J. F. Meyer, Chicago, Ill. Stereoscopic exhibiting machine. 1,722,114; July 23.
- Smith, Persifer F., jr., Paoli, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-stop system. 1,705,101; Mar. 12.
- Smith, Persifer F., jr., Paoli, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-stop system. 1,705,102; Mar. 12.
- Smith, Prince, & Son, Limited. (See Lumby, Lewis, assignor.)
- Smith, Ralph E., assignor to The Galion Metallic Vault Company, Galion, Ohio. Grave-vault handle. 1,705,503; Mar. 19.
- Smith, Ralph E., assignor to Galion Metallic Vault Company, Galion, Ohio. Dump body. 1,734,054; Nov. 5.
- Smith, Ralph R. (See Jones, H. W., and Smith.)
- Smith, Ralph R., Elmhurst, N. Y., and J. R. Marsh, Milford, Conn., assignors to National Carbon Company, Inc. Spring clip for electrical conductors. 1,702,024; Feb. 12.
- Smith, Ralph R., Jackson Heights, N. Y., assignor to National Carbon Company, Inc. Tumbler switch. 1,714,526; May 28.
- Smith, Ray F., Cortland, N. Y. Flexible robe rail or the like. 1,701,056; Feb. 5.
- Smith, Ray F., esq. (See Wellington, James A., assignor.)
- Smith, Raymond D., Pleasantville, N. Y., assignor, by mesne assignments, to Tremont Products Corporation, Boston, Mass. Actuating timer with unified control. 1,705,458; Mar. 12.
- Smith, Richard B., assignor of one-fourth to W. C. Howse, San Francisco, Calif. Mechanical movement. 1,711,103; Apr. 30.
- Smith, Richard B., assignor to W. C. Howse, San Francisco, Calif. Dispenser. 1,711,755; May 7.
- Smith, Richard M., Norfolk, Va. Valve tester. 1,719,787; July 2.
- Smith, Robert A., et al. (See Short, Frank, assignor.)
- Smith, Robert A., Mahwah, assignor to Smith & Serrell, Elizabeth, N. J. Bushing. 1,700,100; Jan. 22.



- Smith, Robert A., Mahwah, assignor to Smith & Serrell, Elizabeth, N. J. Applying and removing bushings. 1,700,101; Jan. 22.
- Smith, Robert A., Mahwah, assignor to Smith & Serrell, Elizabeth, N. J. Bushing flexible coupling. 1,700,102; Jan. 22.
- Smith, Robert O., Chicago, Ill. Molding cement slabs. 1,708,555; Apr. 9.
- Smith, Roger G., Pasadena, Calif. Treating paper pulp. 1,715,810; May 28.
- Smith, Roland L., Belmont, Mass. Heat-exchange apparatus. 1,702,321; Feb. 19.
- Smith, Rowland D., assignor to Corning Glass Works, Corning, N. Y. Frosting glass articles. 1,740,376; Dec. 17.
- Smith, Roy H., Kent, Ohio. Quenching apparatus. 1,698,858; Jan. 15.
- Smith, Roy H., Kent, Ohio. Rotary thread-rolling machine. 1,699,033; Jan. 15.
- Smith, Roy H., Kent, Ohio. Cut-off mechanism for metal-working machines. 1,731,355; Oct. 15.
- Smith, Roy P., Wichita, Kans. Book and copy holder. 1,710,120; Apr. 23.
- Smith, S. Morgan, Company. (See De Vine, Daniel C., assignor.)
- Smith, S. Morgan, Company. (See Jessop, George A., assignor.)
- Smith, S. Morgan, Company. (See Scoville, James D., assignor.)
- Smith, S. Morgan, Company. (See Smith, Arthur G., assignor.)
- Smith, S. Morgan, Company. (See Syvertsen, Harald, assignor.)
- Smith, S., and Sons Motor Accessories, Ltd. (See Bariquand, Georges, assignor.)
- Smith, Salem, assignor to Federal Mogul Corporation, Detroit, Mich. Agitator for molten babbit and the like. 1,703,966; Mar. 5.
- Smith, Samuel T., Los Angeles, Calif. Pipe tongs. 1,730,096; Oct. 1.
- Smith Separator Company. (See Waters, Millard F., assignor.)
- Smith & Serrell. (See Smith, Robert A., assignor.)
- Smith, Sheffield, North Providence, R. I. Automobile sun shield. 1,716,330; June 4.
- Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 77,373; Jan. 1.
- Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Shower head. Des. 77,442; Jan. 8.
- Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 77,433; Jan. 8.
- Smith, Sherman G., Los Angeles, Calif. Vehicle headlight. 1,724,623; Aug. 13.
- Smith, Sidney B. (See Wright, G. M., Smith, and Davis.)
- Smith, Sidney R. (See Harrison, H. H., and Smith.)
- Smith, Skardon T., assignor of one-half to J. E. Smith, Detroit, Mich. Automatic locking device. 1,719,630; July 2.
- Smith, Stanley C., London, England. Heating and/or chemical treatment of liquids and molten materials by direct contact with combustion products. 1,730,440; Oct. 8.
- Smith, Stanley C., London, assignor of one-half to Chemical & Metallurgical Corporation Limited, London Wall, England. Convention of lead sulphate and lead chloride into lead carbonate. 1,738,081; Dec. 3.
- Smith, Stephen, San Francisco, Calif. Train-order hoop. 1,740,206; Dec. 17.
- Smith, Swan, St. Paul, Minn. Machine for making egg case flats. 1,735,340; Nov. 12.
- Smith, Sydney, assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,706,635; Mar. 26.
- Smith, T. L., Company, The. (See Rybeck, Adolph W., assignor.)
- Smith, Talcott P., Rantoul, Ill. Brake lining. 1,720,765; July 16.
- Smith, Talcott P., Rantoul, Ill. Oiling system. 1,710,121; Apr. 23.
- Smith, Theodore C., Philadelphia, Pa. Connector socket for electric plugs. 1,738,970; Dec. 10.
- Smith, Theodore L., assignor to Caille Brothers Company, Detroit, Mich. Marine motor. 1,737,523; Nov. 26.
- Smith, Theodore L., assignor to The Caille Brothers Company, Detroit, Mich. Locking clamp for outboard motors. 1,741,205; Dec. 31.
- Smith, Theodore W., assignor to P. C. Reilly, Indianapolis, Ind. Impregnating timber. 1,731,393; Oct. 15.
- Smith, Theodore W., assignor to P. C. Reilly, Indianapolis, Ind. Impregnating timbers. 1,731,443; Oct. 15.
- Smith, Thomas A. (See Kaufmann, C. J., and Smith.)
- Smith, Thomas A., assignor to Geo. A. Hormel & Company, Austin, Minn. Apparatus for breaking animals' necks. 1,720,100; July 9.
- Smith, Thomas B., Pinewood, S. C. Liquid-dispensing apparatus. 1,711,331; Apr. 30.
- Smith, Thomas B., Pinewood, S. C. Liquid computing and dispensing apparatus. 1,726,370; Aug. 27.
- Smith, Thomas O. L. (See Forrest, T. W., and Smith.)
- Smith, Thomas S., and J. P. Bird, Chandlerville, Ohio. Door-supporting vise. 1,715,722; June 4.
- Smith, Tucker P., Evanston, Ill. Tackling dump. 1,708,638; Apr. 9.
- Smith, Tunis. (See Shull, Daniel L., assignor.)
- Smith, Ulysses G., et al. (See Larsh, John M., assignor.)
- Smith, Ulysses G., et al. (See Taylor, William M., assignor.)
- Smith, Ulysses G. (See Taylor, William M., assignor.)
- Smith, Vernon A., Berkeley, and C. Backman, Oakland, Calif. Trimming machine. 1,716,742; June 11.
- Smith, Vernon A., Berkeley, and C. Backman, Oakland, Calif. Sizing saw. 1,734,099; Nov. 5.
- Smith, Virgil A., Kenedy, Tex. Burglarproof satchel. 1,701,700; Feb. 12.
- Smith, Wallace D. and B. A., Kalamazoo, Mich. Cereal food and process of preparing. 1,705,034; Mar. 12.
- Smith, Wallace W. (See Trevelyan, V. B., and Smith.)
- Smith, Wallace W., Camden, N. Y. Appliance for internal-combustion engines. 1,729,802; Oct. 1.
- Smith, Walter A., assignor to National Sewing Machine Company, Belvidere, Ill. Latch device. 1,715,793; June 4.
- Smith, Walter E., Providence, assignor to Kenney Manufacturing Company, Cranston, R. I. End ornament for drapery rods or the like. Des. 79,995; Nov. 26.
- Smith, Walter E., Providence, assignor to Kenney Manufacturing Company, Cranston, R. I. Center ornament for drapery rods or the like. Des. 79,996; Nov. 26.
- Smith, Walter E., Providence, assignor to Kenney Manufacturing Company, Cranston, R. I. Center ornament for drapery rods or the like. Des. 79,997; Nov. 26.
- Smith, Walter E., Providence, assignor to Kenney Manufacturing Company, Cranston, R. I. End ornament for drapery rods or the like. Des. 80,095; Dec. 10.
- Smith, Walter E., Warwick Downs, assignor to C. G. King & Co., Inc., Providence, R. I. Shoe ornament. Des. 80,094; Dec. 10.
- Smith, Walter E., Warwick Downs, assignor to C. G. King & Co., Inc., Providence, R. I. Shoe ornament. Des. 80,096; Dec. 10.
- Smith, Walter S., Columbus, Ohio. Scale. 1,701,642; Feb. 12.
- Smith, Walter S., Columbus, Ohio. Scale. 1,719,734; July 2.
- Smith, Walter S., Columbus, Ohio. Scale. 1,723,896; Aug. 6.
- Smith, Walter S., Columbus, Ohio. Scale. 1,734,098; Nov. 5.
- Smith, Walter S., assignor to Gar Wood Inc., Detroit, Mich. Boat top. 1,705,592; Mar. 19.
- Smith, Wilbert L., et al. (See Meldrum, Alexander, assignor.)
- Smith, Willard D. (See Smith, Harry D. and W. D.)
- Smith, Willard D., Maplewood, Mo. Advertising device. 1,717,742; June 18.
- Smith, William, Yonkers, N. Y. Humidor. 1,700,574; Jan. 29.
- Smith, William, and J. Thomas, assignors to Scottish Dyes, Limited, Grangemouth, Scotland. Preparing flavanthrone. 1,714,249; May 21.
- Smith, William A. (See Frankenberg, Julius, assignor.)
- Smith, William A., jr. (See Smith, William A., sr., and W. A., jr.)
- Smith, William A., Lyndonville, N. Y. Preparing food substances. Re17,308; May 28.
- Smith, William A., Sayre, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Adjustable guide shell. 1,699,636; Jan. 22.
- Smith, William A., Sayre, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic tool. 1,716,469; June 11.
- Smith, William A., Sayre, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Blowing device. 1,721,674; July 23.
- Smith, William A., sr., Sayre, Pa., and W. A. Smith, jr., Phillipsburg, assignors to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,734,984; Nov. 12.
- Smith, William A., jr., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve mechanism for rock drills. 1,724,737; Aug. 13.
- Smith, William A., jr., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,734,985; Nov. 12.
- Smith, William A., jr., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Blowing device for rock drills. 1,736,864; Nov. 26.
- Smith, William B., Hartselle, Ala. Grip feed for gin-sawing machines. 1,725,887; Aug. 27.
- Smith, William C., Corsicana, Tex. Pump-rod attachment. 1,716,247; June 4.
- Smith, William C., Abilene, Tex. Pressure-relief plug. 1,717,856; June 18.
- Smith, William C., Minneapolis, Minn. Vessel propulsion device. 1,720,452; July 9.
- Smith, William C., Cleveland, Ohio. Brake for differential mechanism. 1,726,591; Sept. 3.
- Smith, William E. (See Vensel, I. W., and Smith.)
- Smith, William E., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit controller. 1,715,476; June 4.
- Smith, William F., et al. (See Olson, Samuel, assignor.)
- Smith, William F., Los Angeles, Calif. Sign. 1,736,889; Nov. 26.
- Smith, William F., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Tractor. 1,697,331; Jan. 1.
- Smith, William H., Mobile, Ala. Rail joint. 1,731,596; Oct. 15.



- Smith, William L., Brooklyn, N. Y. Toy. 1,739,098; Dec. 10.
- Smith, William J., Philadelphia, assignor to V. S. Clymer, Souderton, Pa. Slide valve. 1,700,956; Feb. 5.
- Smith, William J., Bethel, N. C. Barrel-making machine. 1,716,801; June 11.
- Smith, William J., Moore, Mont. Trash-clearer attachment for cultivators. 1,731,356; Oct. 15.
- Smith, William L., jr., assignor to May Hosiery Mills, Nashville, Tenn. Cam head for knitting machines. 1,698,004; Jan. 8.
- Smith, William L., jr., assignor to May Hosiery Mills, Nashville, Tenn. Take-up for knitting machines. 1,721,532; July 23.
- Smith, William O. (See McDonald, A., and Smith.)
- Smith, William O., Buckhannon, W. Va. Ax. 1,731,874; Oct. 15.
- Smith, William O., Wilkinsburg, assignor of two-fifths to J. C. Young, Pittsburgh, Pa. Hot-air furnace. 1,700,911; Feb. 5.
- Smith, William R. (See Spencer, Hugh B., assignor.)
- Smith, William T., Birmingham, England, assignor to Hookless Fastener Company, Meadville, Pa. Shutter trackway. 1,718,183; June 13.
- Smith, Willoughby S., Newton Poppleford, H. J. Garnett, Sevenoaks, and J. A. Holden, Gidea Park, England. Heat treating metals and alloys. 1,700,547; Jan. 29.
- Smith, Willoughby S., Newton Poppleford, H. J. Garnett, Sevenoaks, and J. A. Holden, Gidea Park, England. Apparatus for heat treating metals and alloys. 1,700,548; Jan. 29.
- Smith, Willoughby S., Benchams, H. J. Garnett, Lyme, and J. A. Holden, Sunnyside, England. Loaded conductor. 1,710,805; Apr. 30.
- Smith, Willoughby S., Benchams, H. J. Garnett, Lyme, and J. A. Holden, Sunnyside, England. Refinement of nickel alloys. 1,710,846; Apr. 30.
- Smith, Willoughby S., Newton Poppleford, and H. J. Garnett, Sevenoaks, England. Manufacture of wires and tapes for loading telephone conductors. 1,723,215; Aug. 6.
- Smith, Willoughby S., Benchams, H. J. Garnett, Lyme, and J. A. Holden, Sunnyside, England. Magnetic alloy. 1,728,451; Sept. 17.
- Smith, Willoughby S., Newton Poppleford, H. J. Garnett, Sevenoaks, and J. A. Holden, Gidea Park, England. Magnetic alloy. 1,740,880; Dec. 24.
- Smith, Wilson A., assignor to Cribben & Sexton Company, Chicago, Ill. Gas range. 1,741,885; Dec. 31.
- Smith, Wilson T., Los Angeles, Calif. Well pump. 1,716,709; June 11.
- Smith & Winchester Mfg. Co., The. (See Oman, Carl W., assignor.)
- Smith, Winfield D., Deal, N. J., assignor to L. G. Sylvester, Scranton, Pa. System and apparatus for producing sound. 1,706,549; Mar. 26.
- Smithe, F. L., Company. (See Novick, Abraham, assignor.)
- Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.)
- Smithe, F. L., Machine Co. (See Smithe, Francis B., assignor.)
- Smithe, Francis B., assignor, by mesne assignments, to F. L. Smithe Machine Co., Inc., New York, N. Y. Liquid-level gauge. 1,698,701; Jan. 8.
- Smithells, Colin J., Bushey, England, assignor to General Electric Company. Filament support and making it. 1,733,076; Oct. 22.
- Smithey, Basiel B., Big Spring, Tex. Saw clamp. 1,723,983; Aug. 6.
- Smithey, L. P., et al. (See Smithey, Marvin, assignor.)
- Smithey, Marvin, Lawrenceville, assignor to L. P. Smithey and N. C. Smithey, Roanoke, Va. Motor-vehicle register. 1,711,700; May 7.
- Smithey, Marvin, Lawrenceville, Va., assignor to L. P. Smithey and N. C. Smithey, Roanoke, Va. Meter. 1,737,808; Dec. 3.
- Smithey, Nellie C., et al. (See Smithey, Marvin, assignor.)
- Smith's, John E., Sons Company. (See Van Hooydonk, Adrian C., assignor.)
- Smith's, John E., Sons Co. (See Winter, Andrew J., assignor.)
- Smits, Wytze B., Kassel-Wilhelmshöhe, Germany. Spark plug and making the same. 1,730,441; Oct. 8.
- Smits, Wytze B., Kassel-Wilhelmshöhe, Germany. Resistance element. 1,733,456; Dec. 3.
- Smokador Manufacturing Co. (See Baylis, Robert N., assignor.)
- Smokador Manufacturing Company. (See Fleming, Robert G., assignor.)
- Smokador Manufacturing Co. (See Stevenson, R. J., and Colby, assignors.)
- Smoked Products Company. (See Alsop, James N., assignor.)
- Smoker's stand. R. J. Stevenson and H. T. Colby. Re17,500; Nov. 26.
- Smolensky, Albert G., Cleveland, Ohio. Swing. 1,726,322; Aug. 27.
- Smolin, Alice, Manayunk, Pa. Ring button. 1,703,555; Feb. 26.
- Smoot, Charles H., Maplewood, N. J. Centralized control system. 1,698,031; Jan. 8.
- Smoot, Charles H., Maplewood, N. J. Turbine regulation. 1,706,753; Mar. 26.
- Smoot, Charles H., Maplewood, N. J. Regulator. 1,711,066; Apr. 30.
- Smulski, Theodore J., Lake Zurich, Ill., assignor to The Anderson Co., Gary, Ind. Squeegee. 1,699,634; Jan. 22.
- Smye, Richard, Detroit, Mich. Receptacle. 1,700,274; Jan. 29.
- Smyth, Charles, Dayton, Ohio. Air gun. 1,709,496; Apr. 16.
- Smyth Manufacturing Company, The. (See Clark, E. W., and Schramm, assignors.)
- Smyth Manufacturing Company, The. (See Schramm, Carl, assignor.)
- Smythe, Edwin H. (See Farrington, J. F., and Smythe.)
- Smythe, Edwin H., Evanston, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. 1,709,044; Apr. 16.
- Smythe, Edwin H., Evanston, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound reproducer. 1,722,020; July 23.
- Smythe, Edwin H., Evanston, Ill., and C. E. Lane, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vibration device. 1,738,327; Dec. 3.
- Smythe, Marion A., Roanoke, Va. Perpetual calendar. 1,698,923; Jan. 15.
- Smythe, Richard M., Boonton, N. J., assignor to J. Thomann, Brooklyn, N. Y. Cake plate. 1,718,668; June 25.
- Smythe, Robert L., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Electrical switch. 1,720,860; July 16.
- Snap Valve Corporation, The. (See Hooper, A. C., and McPhee, assignors.)
- Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 1,697,668; Jan. 1.
- Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,704,110; Mar. 5.
- Snavely, Clarence S., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,709,920; Apr. 23.
- Snavely, Clarence S., Pittsburgh, and W. B. Wells, Wilkinsburg, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. Re17,252; Apr. 2.
- Snead & Company. (See Macdonald, Angus S., assignor.)
- Snead & Company. (See Macdonald, A. S., Waite, and Huggins, assignors.)
- Snead, Edwin B., Dallas, Tex. Cable clamp. 1,732,033; Oct. 15.
- Sneath Glass Company. (See Carmean, S. G., and Crimel, assignors.)
- Snebold, Albert A., Natrona, Pa., assignor to The Dorr Company, New York, N. Y. Valve. 1,724,686; Aug. 13.
- Snediker, Morton O. (See Powers, F. W., and Snediker.)
- Sneed, John, assignor to Steeldraulic Brake Corporation, Detroit, Mich. Brake shaft. 1,717,631; June 18.
- Sneed, John, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Brake mounting. 1,726,045; Aug. 27.
- Sneed, John, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Brake anchor. 1,726,046; Aug. 27.
- Sneed, John, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Braking device. 1,735,139; Nov. 12.
- Snell, Harold T., El Paso, Tex. Reaming machine. 1,739,424; Dec. 10.
- Snell, Harry S. (See Daniels, E. A., and Snell.)
- Snell, James C., Oak Park assignor to Premier Electric Company, Chicago, Ill. Radio frequency set. 1,714,326; May 21.
- Snell, James C., assignor to S. K. S. Mfg. Co., Milwaukee, Wis. Oil-change indicator. 1,727,569; Sept. 10.
- Snell, James C., Oak Park, assignor to Premier Electric Company, Chicago, Ill. Electrical condenser. 1,739,050; Dec. 10.
- Snell, Lester W., Wood River, Ill. Recovering products from fractionating condensers. 1,725,219; Aug. 20.
- Snell, Lyle K., Detroit, Mich., assignor to The Willys-Overland Company, Toledo, Ohio. Clutch. 1,700,860; Feb. 5.
- Snell, Samuel A., assignor to F. C. Matthaei, Detroit, Mich. Muffler. 1,715,630; June 4.
- Snell, Samuel A., assignor to F. C. Matthaei, Detroit, Mich. Automobile heater. 1,733,759; Oct. 29.
- Snelling, Henry B. W., Concord, Mass. Motorist's receptacle. 1,733,245; Oct. 29.
- Snelling, Walter O., Allentown, Pa. Current-rectifying device. 1,711,974; May 7.
- Snelling, Walter O., Allentown, Pa. Manufacturing hollow rayon fibers. 1,713,679; May 21.
- Snelling, Walter O., Allentown, Pa. Furfural reaction product. 1,716,606; June 11.
- Snelling, Walter O., Allentown, Pa. Preserving wood. 1,723,334; Aug. 6.
- Snelling, Walter O., Allentown, Pa. Calibrating weights. 1,726,931; Sept. 3.
- Snelling, Walter O., Allentown, Pa. Process of and apparatus for applying metal leaf. 1,728,635; Sept. 17.
- Snelling, Walter O., Allentown, Pa. Pigment. 1,730,339; Oct. 8.



- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive for signaling. 1,709,636; Apr. 16.
- Snelling, Walter O., and C. B. Koch, Allentown, Pa., assignors to Trojan Powder Company, New York, N. Y. Manufacture of cordeau. 1,741,380; Dec. 31.
- Snelling, Walter O., and G. A. Rupp, Allentown, Pa., assignors to Trojan Powder Company, New York, N. Y. Explosive cartridge. 1,738,402; Dec. 3.
- Snellings, C. C., et al. (See Claybrook, Bennie R., assignor.)
- Snellings, E. H., et al. (See Claybrook, Bennie R., assignor.)
- Sniatowski, Walter, New York, N. Y. Safety device for automobiles. 1,713,403; May 14.
- Snider, Charles H., Conway, S. C. Strainer. 1,704,634; Mar. 5.
- Snider, Perl M. (See Wright, John W., assignor.)
- Snively, Homer A. (See Mays, J. K., and Snively.)
- Snodgrass, George M., Charleston, W. Va., assignor to The Libbey-Owens Glass Company, Toledo, Ohio. Cooler support for sheet-glass apparatus. 1,731,278; Oct. 15.
- Snodgrass, Stephen H., Ralls, Tex. Illuminated display device. 1,722,399; July 30.
- Sno-Ko Inc. (See Goldstein, Adolph O., assignor.)
- Snook, Clarence G., assignor to The Troy Sunshade Company, Troy, Ohio. Umbrella construction. 1,736,177; Nov. 19.
- Snouffer, Frank, Cedar Rapids, Iowa. Portable tent. 1,701,428; Feb. 5.
- Snover, John F., Johnson City, N. Y. Woodworking machine. 1,733,518; Oct. 29.
- Snow, Barton S., Batavia, assignor to T. W. Snow Construction Co., Chicago, Ill. Elevating apparatus. 1,723,713; Aug. 6.
- Snow, Barton S., Wheaton, assignor to T. W. Snow Construction Co., Chicago, Ill. Storage tank. 1,738,213; Dec. 3.
- Snow, Barton S., Wheaton, assignor to T. W. Snow Construction Company, Chicago, Ill. Material-moving apparatus. 1,739,099; Dec. 10.
- Snow, Frank P., assignor to Snow Manufacturing Company, Inc., Los Angeles, Calif. Valve facing. 1,704,955; Mar. 12.
- Snow, Frederick O., jr., Winchester, assignor to Mead-Morrison Manufacturing Company, East Boston, Mass. Portable hoisting mechanism. 1,699,480; Jan. 15.
- Snow, Frederick O., jr., Winchester, assignor to Mead-Morrison Manufacturing Company, East Boston, Mass. Track chain. 1,702,223; Feb. 12.
- Snow, Frederick O., jr., Winchester, assignor to Mead-Morrison Manufacturing Company, East Boston, Mass. Power-driven snow-removing apparatus. 1,707,202; Mar. 26.
- Snow, Frederick O., jr., Winchester, assignor to Mead-Morrison Manufacturing Company, East Boston, Mass. Snowplow. 1,721,262; July 16.
- Snow, Isaac, Lawrence, Mass. Diagonal friction pin shuttle. 1,708,595; Apr. 9.
- Snow, Isaac, Lawrence, Mass. Shuttle. 1,709,413; Apr. 16.
- Snow, Leon A., and F. W. Duncan, Seattle, Wash. Golf bag holder. 1,731,755; Oct. 15.
- Snow, Lyle N., assignor to H. M. Sheer Company, Quincy, Ill. Oil burner. 1,714,325; May 21.
- Snow Manufacturing Company. (See Snow, Frank P., assignor.)
- Snow, T. W., Construction Co. (See Schaub, James B., assignor.)
- Snow, T. W., Construction Company. (See Snow, Barton S., assignor.)
- Snow, Wallace J., Lakewood, assignor to The Cleveland Heater Company, Cleveland, Ohio. Relief valve. 1,740,422; Dec. 17.
- Snow, Wilbur H., assignor to Gleason Works, Rochester, N. Y. Method of and machine for cutting gears. 1,725,379; Aug. 20.
- Snowdon, Archibald G., Montreal, Quebec, Canada. Pipe cleaner. 1,702,322; Feb. 19.
- Snowdy, Sergeant, North Bay, Ontario, Canada. Kitchen utensil. 1,737,898; Dec. 3.
- Snyder, Aulden D., Cleveland, Ohio. Internal-combustion engine and cylinder and piston construction. 1,728,514; Sept. 17.
- Snyder & Black, Incorporated. (See Scherotto, John J., assignor.)
- Snyder & Black, Incorporated. (See Viscount, Joseph L., assignor.)
- Snyder, Clifford L. (See Evans, E. S., and Synder.)
- Snyder, Clifford L., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Shipping device. 1,705,381; Mar. 12.
- Snyder, Clifford L., assignor to The Evans Auto Loading Co., Inc., Detroit, Mich. Decking apparatus for automobile bodies. 1,735,800; Nov. 12.
- Snyder, Daniel O., Muncy, Pa. Metal railway tie and fastening. 1,701,247; Feb. 5.
- Snyder Document Protection Co. (See Snyder, Theodore J., assignor.)
- Snyder, Earl L., et al. (See Lathrop, Asa, assignor.)
- Snyder, Earl S., Compton, Calif. Arch restorer. 1,722,866; July 30.
- Snyder, Edward, Finley Park, Ill. Sash holder. 1,701,548; Feb. 12.
- Snyder, Edward, Fort Wayne, Ind., assignor, by mesne assignments, to General Cable Corporation, New York, N. Y. Insulation remover. 1,704,635; Mar. 5.
- Snyder, Frank H., Cambridge, Mass. Clamping pants buckle. 1,726,085; Aug. 27.
- Snyder, Frank L. (See Jeffrey, M. L., and Snyder.)
- Snyder, Frank M., assignor to The Peerless Wire Goods Company, La Fayette, Ind. Display basket. 1,697,789; Jan. 1.
- Snyder, George C., Long Island City, N. Y. Vehicle. 1,696,927; Jan. 1.
- Snyder, George C., New York, N. Y. Vehicle. 1,725,378; Aug. 20.
- Snyder, George C., Long Island City, assignor to Kaelma Manufacturing Company, Inc., New York, N. Y. Attaching fasteners to envelopes, etc. 1,726,003; Aug. 27.
- Snyder, George C., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y. Bag or envelope. 1,734,451; Nov. 5.
- Snyder, Harry L., Los Angeles, Calif. Display rack. 1,731,875; Oct. 15.
- Snyder, Henry L., Bowmanstown, Pa. Platform-scale attachment. 1,707,148; Mar. 26.
- Snyder, Howard F., assignor, by mesne assignments, to The Maytag Company, Newton, Iowa. Vacuum agitator for washing machines. 1,714,894; May 28.
- Snyder, Howard F., assignor, by mesne assignments, to The Maytag Company, Newton, Iowa. Gyrator with high center drive. 1,729,751; Oct. 1.
- Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Washing machine. 1,738,457; Dec. 3.
- Snyder, Jacob K., Greenpoint, N. Y., assignor to A. C. Horn Company. Producing printing surfaces of wood and products thereof. 1,717,945; June 18.
- Snyder, Jacob K., Greenpoint, N. Y., assignor to D. C. Horn Company. Producing printing surfaces and products thereof. 1,717,946; June 18.
- Snyder, Jacob K., Greenpoint, N. Y., assignor to A. C. Horn Company. Printing surface and printing the same. 1,717,947; June 18.
- Snyder, Jacob R., Cleveland Heights, Ohio. Shock absorber. 1,717,526; June 18.
- Snyder, Jacob R., assignor to The Star Rebound Controller Company, Cleveland, Ohio. Shock absorber. 1,734,695; Nov. 5.
- Snyder, Jesse, Chicago, Ill. Ventilator. 1,700,912; Feb. 5.
- Snyder, John L. (See Willis, Glenn H., assignor.)
- Snyder, Joseph R., Timpas, Colo. Rail chair. 1,698,108; Jan. 8.
- Snyder, Philip P., Detroit, Mich. Antislipping attachment for horseshoes. 1,707,885; Apr. 2.
- Snyder, Robert W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for shaping tires and inserting air bags therein. 1,732,778; Oct. 22.
- Snyder, Simon, assignor to Sprout, Waldron and Company, Muncy, Pa. Apparatus for mixing molasses with stock feed. 1,707,999; Apr. 9.
- Snyder, Simon, assignor to Sprout, Waldren & Co., Muncy, Pa. Conveyor chute for percentage feeding machines. 1,719,788; July 2.
- Snyder, Simon, assignor to Sprout, Waldron and Company, Muncy, Pa. Mixing machine. 1,724,808; Aug. 13.
- Snyder, Theodore J., Chicago, Ill., assignor to Snyder Document Protection Co. Document paper. 1,727,912; Sept. 10.
- Snyder, Theodore M., Verona, N. J. Electric switch. 1,731,756; Oct. 15.
- Snyder, Vernon C., Glen Rock, N. J. Applying covers to containers. 1,709,196; Apr. 16.
- Snyder, William J., and E. C. Ahlheim, Franklin, Pa. Chuck. 1,740,377; Dec. 17.
- Snyders, Gysbertus C., Cornelius Gordyn, jr., Jan van de Kamp, and Charles E. A. Maitland, Amsterdam, Netherlands. Alarm-circuit system. 1,734,781; Nov. 5.
- Snyders, Gysbertus C., C. Gordyn, jr., J. van de Kamp, and C. E. A. Maitland, Amsterdam, Netherlands. Alarm-circuit system. 1,740,123; Dec. 17.
- Soabar Company. (See Henry, George W., jr., assignor.)
- Sobel, Frank, Brooklyn, N. Y. Display stand. Des. 78,316; Apr. 16.
- Sobolewski, Edward, Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Centerless grinder. 1,733,086; Oct. 22.
- Sobotka, Harry. (See Willstätter, R., and Sobotka.)
- Sochurek, Frank, West Allis, Wis. Nonsinkable boat. 1,718,764; June 25.
- Socia, Gusta. (See Michaud, J. J., and Socia.)
- Società Festini & C. (See Festini, Bortolo, assignor.)
- Società Invenzioni Brevetti Anonima-Torino. (See Ferretti, Antonio, assignor.)
- Società Italiana Lavorazioni Meccaniche. (See Berla, Antonio, assignor.)
- Società Italiana Pirelli. (See Emanuelli, Luigi, assignor.)
- Società Italiana Pirelli. (See Pestalozza, Ugo, assignor.)
- Società Italiana "Vop". (See Galasso, Pietro, assignor.)
- Società Italiano Pirelli. (See Emanuelli, Luigi, assignor.)
- Société Alsacienne de Constructions Mécaniques. (See Gégauff, Charles, assignor.)
- Société Alsacienne de Constructions Mécaniques. (See Karrer, André, assignor.)
- Société Ammonia. (See Jaubert, George F., assignor.)
- Société: Anciens Etablissements A. Combe & Fils & Cie. (See Friedman, Charles S., assignor.)
- Société Anonyme Adolphe Saurer. (See Bolli, Bernhard, assignor.)



- Société Anonyme des Anciens Etablissements Panhard & Levasson. (See Schaeffer, Charles, assignor.)
- Société Anonyme des Appareils de Manutention et Fours Stein. (See Niemkoff, Gregoire, assignor.)
- Société Anonyme des Appareils de Manutention & Fours Stein. (See Stein, Charles M., assignor.)
- Société Anonyme des Ateliers d'Aviation Louis Breguet. (See Breguet, Louis, assignor.)
- Société Anonyme des Ateliers de Secheron. (See Meyfarth, Gottlieb, assignor.)
- Société Anonyme des Ateliers de Secheron. (See Werz, Jacob, assignor.)
- Société Anonyme des Automobiles et Cycles Peugeot. (See Koechlin, Isaac, assignor.)
- Société Anonyme des Automobiles "Unic" Puteaux. (See Martzloff, Armand, assignor.)
- Société Anonyme des Chaux et Ciments De Lafarge et Du Teil. (See Dumas, Georges, assignor.)
- Société Anonyme des Cristalleries de Nancy. (See Bayet, Jules A.)
- Société Anonyme des Distilleries des Deux-Sevres. (See Ricard, E., and Guinot, assignors.)
- Société Anonyme des Engrenages Citroen. (See Schweich, Roger, assignor.)
- Société Anonyme des Etablissements Lefaive. (See Lefaive, Joseph, assignor.)
- Société Anonyme des Etablissements Tecalemit. (See Picquerez, Emile, assignor.)
- Société Anonyme des Hauts-Fourneaux et Fonderies de Pont-a-Mousson. (See Cavalier, Jean, assignor.)
- Société Anonyme des Manufactures des Glaces & Produits Chimiques de St-Gobain, Chauny & Cirey. (See Long, Bernard, assignor.)
- Société Anonyme des Matieres Colorantes et Produits Chimiques de Saint-Denis. (See Wahl, A., and Lantz, assignors.)
- Société Anonyme des Ondes Dirigées. (See Delavalée, Marcel, assignor.)
- Société Anonyme des Verreries et Manufactures de Glaces d'Aniche. (See Laronde, Michel, assignor.)
- Société Anonyme d'Ougrée Marihay. (See Trassenster, Gustave, assignor.)
- Société Anonyme Etablissements Ed. Jaeger. (See Rodanet, Charles H. H., assignor.)
- Société Anonyme: Etablissements Maurice Houdaille. (See d'Albay, Jacques T., assignor.)
- Société Anonyme: Etablissements Poillet & Chausson. (See Hendrick, Jean J., assignor.)
- Société Anonyme Francaise dite: Compagnie Industrielle des Moteurs à Explosion, C. I. M. E. (See Perrier, Daniel, assignor.)
- Société Anonyme Francaise dite: Societe Anonyme d'Exploitation des Brevets Georgevitch et Wageor pour des Marteaux Rotatifs Margeowa. (See Wagner, Georges R., assignor.)
- Société Anonyme Francaise du "Freodo." (See Bluhm, Alexandre, assignor.)
- Société Anonyme John Cockerill. (See Cousin, Arthur J. F. J., assignor.)
- Société Anonyme "L'Air Chaud." (See Philipon, Henri J. F., assignor.)
- Société Anonyme La Precision Moderne. (See Le Prieur, Yves P. G., assignor.)
- Société Anonyme la Precision Moderne. (See Ricordel, Auguste L., assignor.)
- Société Anonyme le Carbone. (See Portail, Fernand C. F., assignor.)
- Société Anonyme les Ateliers Armand & Deoune. (See Deoune, Leon C., assignor.)
- Société Anonyme les Ateliers Mecaniques. (See Dienne, Gaston, assignor.)
- Société Anonyme Marinoni (Machines et Matériel pour l'Imprimerie et les Industries annexes). (See Perdreau, Jean, assignor.)
- Société Anonyme: Nieuport-Astra. (See Delage, Gustave, assignor.)
- Société Anonyme pour l'Exploitation des Procédés Maurice Leblanc-Vickers. (See Leblanc, Charles L. A. M., assignor.)
- Société Anonyme pour Tous Appareillages Mécaniques (Satam). (See Böbling, Peter, assignor.)
- Société Anonyme pour Tous Appareillages Mecaniques. (See Dubreuil, Gaston, assignor.)
- Société Civile des Procédés Masse. (See Masse, Casimir, assignor.)
- Société Civile pour l'Etude de la Photographie et de la Cinématographie au Couleurs. (See Berthon, Rodolphe, assignor.)
- Société d'Applications et de Recherches Scientifiques et Industrielles. (See Bussard, Claude, assignor.)
- Société de Phot. chimie "Elka." (See de Procoudine-Gorsky, S., and Pozniakow, assignors.)
- Société de Recherches et d'Exploitations Petroliferes. (See Godel, Albert, assignor.)
- Société d'Optique et de Mecanique de Haute Precision. (See Castellani, Antoine, assignor.)
- Société des Etablissements Barbet. (See Legendre, Georges F., assignor.)
- Société des Etablissements Edouard Belin. (See Toulon, Pierre M. G., assignor.)
- Société d'Etudes Minières & Industrielles. (See Urfer, Charles, assignor.)
- Société des Mines de Frankenholz. (See Weiss, Paul, assignor.)
- Société des Moteurs Salmson (Système Canton-Unné). (See Heinrich, Jean M., assignor.)
- Société des Usines Chimiques Rhone-Poulenc. (See Altwegg, J., and Dutel, assignors.)
- Société des Usines Chimiques Rhone-Poulenc. (See Chagnaud, André, assignor.)
- Société dite: Société de Construction et d'Entretien de Matériel Industriel et Agricole Scemia. (See Mariage, Pierre, assignor.)
- Société du Carburateur Zenith. (See Boulade, Antonin, assignor.)
- Société du Vaporisateur le Frisson. (See Cuel, Marcel, assignor.)
- Société Electrometallurgique de Montricher. (See Miguet, Paul L. J., assignor.)
- Société en Commandite par Actions Oscar Lévy ses Fils & Cie. (Société des Chaussures Cecil). (See Lévy, Jack R., assignor.)
- Société en Nom Collectif G. Moreux & Cie. (See Moreux, Gustave C., assignor.)
- Société Francaise Cinechromatique (Procédés R. Berthon). (See Berthon, Rodolphe, assignor.)
- Société Francaise des Produits Alimentaires Azotes. (See Kahn, Albert, assignor.)
- Société Francaise des Produits Alimentaires Azotes. (See Kahn, M., Le Breton, and Schaeffer, assignors.)
- Société Générale des Compteurs de Voitures. (See Martinet, André, assignor.)
- Société Genevoise d'Instruments de Physique. (See Borel, Onesime, assignor.)
- Société Hardoll. (See Carbonaro, Marius C., assignor.)
- Société Hardoll Etablissements Hariveau et Dolimier et René Porte et Cie. Reunis. (See Porte, René, assignor.)
- Société H. Trentelivres & Co. (See Meurin, Henri, assignor.)
- Société Internationale des Procédés Prudhomme (S. I. P. P.) (See Prudhomme, Eugene A., assignor.)
- Société l'Air Liquide, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude. (See Claude, Georges, assignor.)
- Société le Carbone. (See Oppenheim, René, assignor.)
- Société "Le Four Chimique Rotatif" (Société Anonyme Francaise). (See Tocco, L., and Landi, assignors.)
- Société Lyonnaise de Soie Artificielle. (See Cusin, M., and Chevalet, assignors.)
- Société Nord Africaine d'Etudes & d'Entreprises (Société Anonyme Francaise). (See Korneff, Basil, assignor.)
- Société Nouvelle des Etablissements Alfred Maguin. (See Maguin, Abel, assignor.)
- Société "Quartz L. Silice." (See Burthe, Pierre H. C., assignor.)
- Société Rochas Fils & Millet et al. (See Rochas, Maurice G. E., assignor.)
- Society of Chemical Industry in Basle. (See Ackermann, F., and Schetelig, assignors.)
- Society of Chemical Industry in Basle. (See Felix, F., and Allemann, assignors.)
- Society of Chemical Industry in Basle. (See Gams, A., and Locher, assignors.)
- Society of Chemical Industry in Basle. (See Gams, A., and Widmer, assignors.)
- Society of Chemical Industry in Basle. (See Hartmann, M., and Kägi, assignors.)
- Society of Chemical Industry in Basle. (See Mayer, B., and Siebenburger, assignors.)
- Society of Chemical Industry in Basle. (See Mayer, B., and Siebenbürger, assignors.)
- Society of Chemical Industry in Basle. (See Mayer, B., and Würzler, assignors.)
- Society of Chemical Industry in Basle. (See Reber, E., and Spieler, assignors.)
- "Society of Chemical Industry in Basle." (See Straub, Fritz, assignor.)
- Socony Burner Corporation. (See Metcalfe, Robert F., assignor.)
- Socony Burner Corporation. (See Powers, Milton A., assignor.)
- Sodemann, William, St. Louis, Mo. Humidifier for radiator shields and inclosures. 1,716,470; June 11.
- Soderberg, Carl R. (See Trumpler, W. E., and Soderberg.)
- Soderberg, Carl R., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,731,357; Oct. 15.
- Söderberg, Carl W. (See Sem, M. O., and Söderberg.)
- Soderberg, John G. (See Lockwood, G. D., and Soderberg.)
- Soderberg, Joseph, Iron Mountain, Mich. Advertising sign. 1,731,948; Oct. 15.
- Soderberg, Sten E. B., assignor to Leslie Company, Lyndhurst, N. J. Pressure regulator. 1,701,865; Feb. 12.
- Sodergren, John E., Minneapolis, Minn. Screen apparatus for pivoted sashes. 1,701,701; Feb. 12.
- Soderholm, Arthur. (See Svven, A., and Soderholm.)
- Soderholm, Joseph. (See McClintock, O. B., Lawrence, Hanson, and Soderholm.)
- Soderquist, Arthur R., Idaho Falls, Idaho. Lock closure for ice bags. 1,712,361; May 7.
- Solch, George F. (See Ladewig, A. E., and Solch.)
- Soferman, Max, Philadelphia, Pa. Electric-fuse connection and terminal contact. 1,707,327; Apr. 2.
- Sohl, Edgar A., Cleveland, Ohio, assignor to C. G. Spring & Bumper Company, Detroit, Mich. End and corner bumper. Re17,254; Apr. 2.



- Sohl, Edgar A., Cleveland, Ohio, assignor to C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Re17,255; Apr. 2.
- Sohler, Karl, Biederitz, near Magdeburg, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Apparatus for heating materials. 1,720,974; July 16.
- Sohst, Otto. (See Wagner, H., and Sohst.)
- Sokal, Edward, assignor to American Katalite Corporation, New York, N. Y. Internal-combustion engine. 1,724,526; Aug. 13.
- Sokka, Andreas E., Gjerpen, near Skien, Norway. Washing implement. 1,699,316; Jan. 15.
- Sokol, Edward J., St. Edward, Nebr. Shield for two-row corn cultivators. 1,709,099; Apr. 16.
- Sokol, John, assignor of forty-five per cent to W. Mykalski, Muskegon, Mich. Bureau. Des. 80,069; Dec. 3.
- Sokoloff, Boris N., Ridgefield, N. J. Toilet and detergent composition. 1,703,602; Feb. 26.
- Solaflex Limited. (See Bridgman, Victor, assignor.)
- Solar Lighting Fixture Co. (See Shardlow, Harry, assignor.)
- Solar Lighting Fixture Company. (See Strom, Olaf S., assignor.)
- Solar Products Co. (See Rice, Robert H., assignor.)
- Solar Research Corporation. (See Chesney, Jacques W. D., assignor.)
- Solar-Sturges Mfg. Co. (See Walker, James P., assignor.)
- Solberg, John C., Arlington, assignor of one-half to F. C. Langenberg, Cambridge, Mass. Packing for high-pressure joints. 1,725,836; Aug. 27.
- Solbue, Sverre, Gottenborg, Sweden. Jar closure. 1,707,328; Apr. 2.
- Soldan, Lewis E., Buffalo, N. Y., assignor to Productive Equipment Corporation, Chicago, Ill. Fastening device for screening apparatus. 1,711,548; May 7.
- Soldenhoff, Alexander, Zurich, Switzerland. Wing for flying machines. 1,729,970; Oct. 1.
- Solem, Peter A., Rockford, Ill. Endless-bed sander. 1,699,764; Jan. 22.
- Solem, Peter A., Rockford, Ill. Drum-type sander. 1,718,839; June 25.
- Solenberger, Dean M., Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc. Device for reducing piston slap in internal-combustion engines. 1,698,073; Jan. 8.
- Solenberger, Dean M., Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc. Device for reducing piston slap in internal-combustion engines. 1,698,074; Jan. 8.
- Solenberger, Dean M., assignor to Simplex Piston Ring Company, Cleveland, Ohio. Piston ring. 1,703,904; Mar. 5.
- Solenberger, Dean M., Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc. Device for reducing piston slap in internal-combustion engines. 1,703,905; Mar. 5.
- Solenberger, Dean M., Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc. Device for reducing piston slap in internal-combustion engines. 1,710,276; Apr. 23.
- Solenberger, Dean M., Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc. Device for reducing piston slap in internal-combustion engines. 1,713,785; May 21.
- Solenberger, Dean M., Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc. Piston ring. 1,734,055; Nov. 5.
- Solenberger, Dean M., Cleveland, and A. G. Jagel, Cleveland Heights, assignors to The Simplex Piston Ring Company of America, Inc., Cleveland, Ohio. Rear-vision mirror. 1,709,752; Apr. 16.
- Soley, Frank, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination padlock. 1,703,790; Feb. 26.
- Soley, Frank, Philadelphia, Pa., assignor, by mesne assignments, to The Yale and Towne Manufacturing Company, Stamford, Conn. Lock for spare tires of automobiles. 1,721,476; July 16.
- Solheim, Marcus O., assignor to Andersen Lumber Company, Bayport, Minn. Attachment for nailing machines. 1,702,095; Feb. 12.
- Solidon Products, Inc. (See Lukens, Hiram S., assignor.)
- Solinger, Leo, assignor to Eagle Pencil Company, New York, N. Y. Trump indicator. 1,734,650; Nov. 5.
- Sollom, Vincent P., Pittsburgh, Pa. Book protector. 1,726,684; Sept. 3.
- Soloff, Samuel, Brooklyn, N. Y. Necktie holder. 1,734,237; Nov. 5.
- So-Lo Jack Co. (See Larson, Nils G., assignor.)
- Solomon, Charles. (See Mundy, F. J., and Solomon.)
- Solon, Marc, Trenton, N. J. Covered dish or like article. Des. 79,445; Sept. 17.
- Solski, Julius F., Sacramento, Calif. Hanger. 1,716,194; June 4.
- Soltész, Adalbert R., Connellsville, Pa. Seed-planting machine. 1,713,894; May 21.
- Solvay Process Company. (See Henderson, William N., assignor.)
- Somajni, Giacomo, Milan, Italy. Direct-current system. 1,739,562; Dec. 17.
- Somers, Elward B., Darby, Pa., assignor to Tybon Corporation, Camden, N. J. Casing for a ribbon-rewinding machine. Des. 77,863; Feb. 26.
- Somerville, Ian C., Cheltenham, Pa., assignor to Rohm & Haas Company. Condensed aromatic sulphonic acids and making same. 1,722,904; July 30.
- Somes, Howard E., Philippe Manor, N. Y. Unit electrical heater. 1,712,010; May 7.
- Sommer, Adolph, Haberfeld, near Sydney, New South Wales, and A. G. Hood, Narrabeen, near Sydney, New South Wales, Australia, assignors of one-third to E. R. Sterling, Seattle, Wash. Internal-combustion engine. 1,706,258; Mar. 19.
- Sommer, Fritz, Berlin-Charlottenburg, Germany, assignor to Deutsche Gasglühlicht-Auer-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Separating cerium. 1,707,450; Apr. 2.
- Sommer, J. L., Manufacturing Co. (See Harding, Thomas, assignor.)
- Sommer, Luther A., and F. H. Adams, Cleveland Heights, assignors to The Cleveland Hobbing Machine Company, Cleveland, Ohio. Multiple-spindle machine tool. 1,732,700; Oct. 22.
- Sommer, William H., Peoria, Ill. Power-demand regulator. 1,704,520; Mar. 5.
- Sommer, William H., Peoria, Ill. Reel. 1,710,384; Apr. 23.
- Sommer, William H., Peoria, Ill. Machine for making welded reinforcing fabrics. 1,715,794; June 4.
- Sommer, William H., Peoria, Ill. Article of manufacture. 1,737,867; Dec. 3.
- Sommer, William R., assignor to The Jiffy Wire Connector Company, Hackensack, N. J. Wire connector. 1,736,379; Nov. 19.
- Sommer, Woldemar S., West Brighton, N. Y. Emergency valve for submarines. 1,714,327; May 21.
- Sommerich, Edwin, et al. (See Schwartz, Charles M., assignor.)
- Sommers, Albert L., and F. E. White, Chicago, Ill. Advertising apparatus. 1,721,841; July 23.
- Sommers Bros. Appliance Co. (See Arlt, John L., assignor.)
- Sommers, Charles, North Branch, N. Y. Poultry feeder. 1,733,831; Oct. 29.
- Sommers, Fred W. (See Morgan, Donald C., assignor.)
- Sonen, William A., New York, N. Y. Protective device. 1,716,248; June 4.
- Sonkin, David, New York, N. Y., assignor to Radio Corporation of America. Resistance unit. 1,702,062; Feb. 12.
- Sonnenberg, Harold D. (See Boatman, E. H., and Sonnenberg.)
- Sonner, Carl J., Los Angeles, Calif. Faucet. 1,740,879; Dec. 24.
- Sonner, Philip J., Winfield, Kans. Gas burner. 1,709,197; Apr. 16.
- Sonoco Products Company. (See Dunlap, Charles K., assignor.)
- Sonora Phonograph Company. (See Grubel, Morris M., assignor.)
- Sonora Phonograph Company. (See Oberst, Frank, assignor.)
- Sonora Phonograph Company. (See Otto Carl, assignor.)
- Sonora Phonograph Company. (See Wolf, Joseph, assignor.)
- Sons-Cunningham Reed & Rattan Co. (See Pickhaver, Richard, assignor.)
- Sons-Cunningham Reed & Rattan Co. Inc. (See Jones, Charles W., assignor.)
- Sonsthagen, Asbjørn, Snaresbrook, London, and G. M. Poverud, Norwich, England. Apparatus for mixing, compacting, degassing, or grinding more or less viscous material. 1,722,115; July 23.
- Soper, Howard W., Detroit, Mich. Ventilated fireproof stove-inclosure unit. 1,714,823; May 28.
- Sorbs, John. (See Laurrelo, M., and Sorbs.)
- Sorce, Pietro, Rochester, N. Y. Bumper mechanism for motor vehicles. 1,738,458; Dec. 3.
- Sords, Otto E. (See Myers, N. H., and Sords.)
- Soref, Harry E., assignor to Master Lock Company, Milwaukee, Wis. Lock casing. Des. 78,846; June 25.
- Soref, Harry E., assignor to Master Lock Company, Milwaukee, Wis. Laminated padlock. 1,718,606; June 25.
- Soreng, Edgar M., assignor to Soreng-Manegold Company, Chicago, Ill. Switch structure. 1,714,015; May 28.
- Soreng, Edgar M., assignor to Soreng-Manegold Co., Chicago, Ill. Switch structure. 1,715,014; May 28.
- Soreng-Manegold Co. (See Soreng, Edgar M., assignor.)
- Sorensen, Andrew J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,741,001; Dec. 24.
- Sorensen, Andrine M. (See Johnson, Harry L., assignor.)
- Sorensen, Clarence, Brooklyn, N. Y., assignor of one-half to H. L. Horn. Agitating drag. 1,701,280; Feb. 5.
- Sorensen, Emil, New York, N. Y. Anchoring device for dental bridgework. 1,705,504; Mar. 19.
- Sorensen, Henry, San Francisco, Calif. Tensioned concrete reinforcement. 1,716,710; June 11.
- Sorensen, Herbert W., Lyndon Station, Wis. Sack or bag. 1,707,098; Mar. 26.
- Sorensen, Rasmus L. (See Sprenger, J. J., and Sorensen.)
- Sorensen, Sam, assignor to J. H. Giesey, Houston, Tex. Rotary drill. 1,710,436; Apr. 23.
- Sorensen, Theodore, assignor to J. S. Reid, Cleveland, Ohio. Flying machine. 1,724,226; Aug. 13.
- Sorenson, Arthur H., Ortonville, Minn. Implement-transport truck. 1,710,122; Apr. 23.
- Sorenson, Eric, Brooklyn, N. Y. Explosive composition. 1,709,498; Apr. 16.



- Sorenson, John E., Lynn, Mass., assignor to J. L. Shevenell and H. G. Josephson, trustees, of Massachusetts. Shoe shank. 1,712,362; May 7.
- Sorg, Joseph E., assignor to Millhiser Bag Co. Inc., Richmond, Va. Mailing bag. 1,706,330; Mar. 19.
- Sorge, Joachim. (See Gaarz, W., and Sorge.)
- Soriente, Alfonso, Brooklyn, N. Y. Cane construction. 1,701,866; Feb. 12.
- Sorrel, Victor, and L. A. Lafont, assignors to Ugine-Infra, Grenoble, France. Electric furnace. 1,734,536; Nov. 5.
- Sosa, Augustus M., and H. Baerbalck, assignors to The American Tool Works Company, Cincinnati, Ohio. Lubricating device. 1,699,816; Jan. 22.
- Sosa, Augustus M., Cincinnati, and W. G. Hoelscher, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for drilling machinery. 1,703,791; Feb. 26.
- Sosa, Augustus M., Cincinnati, and W. G. Hoelscher, Norwood, assignors to The American Tool Works Company, Cincinnati, Ohio. Drilling machinery. 1,724,430; Aug. 13.
- Soseman, Ray, Bloomfield, Iowa. Spader roller. 1,719,676; July 2.
- Sosnowski, John B., et al. (See Gwisdalla, Peter, assignor.)
- Soss, Henry, Brooklyn, N. Y. Wheel. 1,705,509; Mar. 19.
- Soss, Joseph, Brooklyn, N. Y. Casket hinge. 1,698,245; Jan. 8.
- Soss, Joseph, Brooklyn, N. Y. Door latch. 1,704,770; Mar. 12.
- Soss, Joseph, Brooklyn, N. Y. Making hinges. 1,705,507; Mar. 19.
- Soss, Joseph, Brooklyn, N. Y. Wheel. 1,705,508; Mar. 19.
- Soss, Mark, Spokane, Wash. Fountain brush. 1,722,686; July 30.
- Soss, Mark, Spokane, Wash. Fountain brush. 1,739,872; Dec. 17.
- Soss, Peter H., assignor of one-third to H. Caton and one-third to D. B. McReynolds, Stanford, Ill. Gate attachment. 1,731,023; Oct. 8.
- Sosy, Inc. (See Leventhal, Mitchell, assignor.)
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-blowing machine. 1,705,341; Mar. 12.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass apparatus. 1,710,789; Apr. 30.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-working tank. 1,710,790; Apr. 30.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Bottle-transfer apparatus. 1,718,607; June 25.
- Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-feeding apparatus. 1,718,608; June 25.
- Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass feeder. 1,731,947; Oct. 15.
- Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass-forming machine. 1,733,473; Oct. 29.
- Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass-blowing machine. 1,737,524; Nov. 26.
- Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass feeder. 1,737,525; Nov. 26.
- Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Apparatus for feeding molten glass. 1,739,873; Dec. 17.
- Soucic, Anthony, Oakland, Calif. Vending stand. Des. 78,662; May 28.
- Soukup, Robert, Chicago, Ill. Toothbrush. 1,726,197; Aug. 27.
- Soukup, Rudolf, Riverside, Ill. Bracket for draperies. Des. 80,097; Dec. 10.
- Soule, Arthur C., San Francisco, Calif. Sash mounting. 1,725,165; Aug. 20.
- Soulé, Edward L., Berkeley, Calif. Adjustable end form. 1,713,100; May 14.
- Soule, George M., assignor to The Domestic Electric Company, Cleveland, Ohio. Material-treating machine. 1,727,417; Sept. 10.
- Soule, Roland P. (See Klees, A. L., and Soule.)
- Soult, Thomas A., assignor to Sterling Range and Furnace Corporation, Rochester, N. Y. Shelf attachment for stoves. 1,706,466; Mar. 26.
- Sousa, John R., Washington, D. C. Parcel-assorting device. 1,718,087; June 18.
- Sousa, John R., assignor to Automatic Assorting Machine Company, Washington, D. C. Parcel-assorting device. 1,740,378; Dec. 17.
- Sousa, Roney L., Flint, Mich. Automobile shipping deck. 1,697,790; Jan. 1.
- Souter, George M., Los Angeles, Calif. Pavement and preparing same. 1,720,101; July 9.
- Southall, Christopher. (See Smith, A., and Southall.)
- South Bend Bait Company. (See Chapleau, Louis A., assignor.)
- South Bend Bait Company, The. (See Pagin, John B., assignor.)
- Southern Asbestos Company. (See Medernach, Walter K., assignor.)
- Southern California Supply Co., The. (See Quick, Claude E., assignor.)
- Southern Electro-Chemical Company. (See McKee, Ralph H., assignor.)
- Southern Iron & Equipment Co. (See Teeple, Frank A., jr., assignor.)
- Southern Manganese Steel Company. (See Williams, R. J., and Wettengel, assignors.)
- Southern Pecan Co. (See Smith, Blanchard D., assignor.)
- Southern, Robert L., Los Altos, assignor to Arlees Motors Incorporated, Palo Alto, Calif. Engine. 1,716,711; June 11.
- Southern Textile Machinery Company. (See Mulligan, James A., assignor.)
- Southern Textile Machinery Company. (See Paxton, William P., assignor.)
- Southey, Samuel J., jr., Euclid Village, assignor to The Continental Products Company, Cleveland, Ohio. Painting machine. 1,738,738; Dec. 10.
- Southgate, George T., Forest Hills, N. Y. Deodorant composition. 1,729,752; Oct. 1.
- Southwark Foundry & Machine Company. (See Dinzi, Richard W., assignor.)
- Southwest Pump Company. (See Risser, Ross E., assignor.)
- Southwestern Portland Cement Company. (See Velzy, J. E., and Groner, assignors.)
- Southwestern Sales Corporation. (See Mann, James H., jr., assignor.)
- Southwick, James J., Fresno, Calif., assignor to Intertype Corporation, New York, N. Y. Adjustable vise-locking screw. 1,721,095; July 16.
- Southworth Machine Company. (See Spaulding, Eugene A., assignor.)
- Souto, Baldomero V., New York, N. Y., assignor of one-half to W. P. Comstock, Newark, N. J. Convertible parlor chair car and sleeper. 1,711,067; Apr. 30.
- Sovatkin, Edward J., assignor to J. Sklar Manufacturing Co., Brooklyn, N. Y. Surgical pumping unit. 1,712,851; May 14.
- Sovatkin, Edward J., Brooklyn, assignor to J. Sklar Manufacturing Co., New York, N. Y. Bottle-stopper holder and support. 1,721,644; July 23.
- Sovereign, William J., Bay City, Mich. Brake. 1,736,985; Nov. 26.
- Sowden, William A., Covington, Ky. Wrapping machine. 1,703,641; Feb. 26.
- Sowell, Douglas C., U. S. Army, Baltimore, Md. Hot spot for manifolds. 1,730,540; Oct. 8.
- Sowers, James L., assignor to The Tyler Manufacturing Company, Muncie, Ind. Support stand. 1,723,385; Aug. 6.
- Spadone Machine Company. (See Carroll, Joseph, assignor.)
- Spadone Machine Company. (See Wegner, Julius, assignor.)
- Spaeth, Charles. (See Townsend, W. S., and Spaeth.)
- Spafford, Claude L. (See Reed, H. J., and Spafford.)
- Spafford, Claude L., Sherbrooke, Quebec, Canada, assignor to Improved Paper Machinery Company, Nashua, N. H. Shower pipe for paper or pulp machines. 1,721,477; July 16.
- Spahn, August C., assignor to Bernardin Bottle Cap Company, Evansville, Ind. Friction cap for containers. 1,703,501; Feb. 26.
- Spahn, August C., assignor to Bernardin Bottle Cap Co., Evansville, Ind. Bottle cap. 1,704,905; Mar. 12.
- Spahn, August C., assignor to Bernardin Bottle Cap Company, Evansville, Ind. Closure cap. 1,739,659; Dec. 17.
- Spahn, Fred C., Schleswig, Iowa. Automatic gear shift. 1,714,194; May 21.
- Spahr, Martin L., assignor, by mesne assignments, to Robins & Myers, Inc., Springfield, Ohio. Centrifugal operating mechanism. 1,720,766; July 16.
- Spain, William A., London, England. Rowing machine. 1,715,870; June 4.
- Spainhower, Walter W., Bloomfield, Ind. Cow yoke. 1,720,612; July 9.
- Spalding, A. G., & Bros. (See Cruden, George W., assignor.)
- Spalding, A. G., & Bros. (See Ebert, Howard C., assignor.)
- Spalding, A. G., and Bros. (See Gammeter, John R., assignor.)
- Spalding, A. G., & Bros. (See Gibson, Frederick W., assignor.)
- Spalding, A. G., & Bros. (See MacDonald, William W., assignor.)
- Spalding, A. G., & Bros. (See Mitchell, Robert J., assignor.)
- Spalding, A. G., & Bros. (See Mullins, Robert T., assignor.)
- Spalding, A. G., & Bros. (See Pierce, George L., assignor.)
- Spalding, A. G., & Bros. (See Reach, Milton B., assignor.)
- Spalding, A. G., & Bros. (See Reach, William F., assignor.)
- Spalding, A. G., & Bros. (See Stevens, Philip C., assignor.)
- Spalding, Amos H., Manhasset Hills, and J. M. Chankalian, New York, N. Y., assignors to Powers Photo-Engraving Company, Halfone photomechanical printing plate, and producing the same. 1,709,327; Apr. 16.
- Spalding, Charles R., San Francisco, Calif. Combined trunk and bed. 1,733,916; Oct. 29.



- Spalsbury, Charles B., assignor to Johnson, Stevens & Shinkle Shoe Company, St. Louis, Mo. Lasting shoes. 1,731,317; June 4.
- Spalsbury, Charles B., assignor to Johnson, Stevens & Shinkle Shoe Company, St. Louis, Mo. Making boots and shoes. 1,731,339; June 25.
- Span, Adolf A., and O. A. and L. T. Sunde, Seattle, Wash. Hot-top table. 1,731,949; Oct. 15.
- Spanel, Abraham N., Rochester, N. Y. Vacuum cleaner. 1,726,592; Sept. 3.
- Spang, Joseph P., Quincy, Mass. Meat Broiler. 1,733,137; Oct. 29.
- Spang, Joseph P., Quincy, Mass. Meat-tendering device. 1,736,137; Nov. 19.
- Spang, Joseph P., Quincy, Mass. Meat-tendering device. 1,736,138; Nov. 19.
- Spangler, Charles H., assignor to Metropolitan Edison Co., Reading, Pa. Electric-potential detector. 1,701,196; Feb. 5.
- Spanier, John H., Minneapolis, Minn. Speed-changing transmission device. 1,717,632; June 18.
- Spanier, Jack, and B. Weiss, New York, N. Y., assignors to H. Boyarsky and G. Hornick, New York, N. Y. Baby's bottle and nipple. 1,725,166; Aug. 20.
- Spanjers, Anton R. P. (See Spanjers, Arnold J. and A. R. P.)
- Spanjers, Arnold J., Duluth, and A. R. P. Spanjers, Minneapolis, Minn. Weather strip. 1,717,539; Dec. 24.
- Spanner, Hans J., assignor to Dr. Erich F. Huth G. m. b. H., Berlin, Germany. Full-wave rectifier with glow cathode. 1,708,852; Apr. 9.
- Spanner, Johannes J. (See Nickel, A. P. H.-G., and Spanner.)
- Spanner, John, Chicago, Ill. Container for cigarettes and the like. 1,731,507; Oct. 15.
- Sparhawk, Charles E., Steilacoom, Wash. Brake wheel for aeroplanes. 1,732,544; Oct. 22.
- Sparling, Joseph T., Tulsa, Okla. Windshield wiper. 1,739,806; Dec. 17.
- Sparkes, Harry P., Pittsburgh, Pa., assignor to The Superior Switchboard & Devices Company. Meter-testing block. 1,716,246; June 4.
- Sparkes, Malcolm, London, England. Coloring the surface of wood. 1,697,026; Jan. 1.
- Sparkletts Bottled Water Corporation. (See Washburne, Arthur L., assignor.)
- Sparklin, Charles H., Topeka, Kans. Damper control. 1,733,832; Oct. 29.
- Sparks, Charles, assignor to The Kurz-Kasch Company, Dayton, Ohio. Insert plug. 1,726,166; Aug. 27.
- Sparks, Charles F., St. Louis, Mo. Bag-turning apparatus. 1,698,110; Jan. 8.
- Sparks, Frank H. (See Noblitt, Q. G., Reeves, and Sparks.)
- Sparks, Frank M., Cullman, Ala. Transformer. 1,700,689; Jan. 29.
- Sparks, Harry and S., Toronto, Ontario, Canada. Parcel carrier for baby carriages and the like. 1,708,906; Apr. 9.
- Sparks, Sarah. (See Sparks, Harry and S.)
- Sparks, Stanley W., Summit, N. J., assignor to The Columbus Machine Company, Columbus, Ohio. Gate valve. 1,708,851; Apr. 9.
- Sparks, William, Jackson, Mich., assignor to Sparks-Withington Company, Cleveland, Ohio. Horn. 1,712,906; May 14.
- Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Signaling device. 1,719,789; July 2.
- Sparks, William, T. J. Scofield, F. W. Billig, and L. E. Johnson, assignors to The Sparks-Withington Company, Jackson, Mich. Signaling device. 1,698,804; Jan. 15.
- Sparks-Withington Company, The. (See House, James N., assignor.)
- Sparks-Withington Company, The. (See Scofield, T. J., and White, assignors.)
- Sparks-Withington Company, The. (See Sparks, W., Scofield, Billig, and Johnson, assignors.)
- Sparks-Withington Company. (See Sparks, William, assignor.)
- Sparks-Withington Company, The. (See Withington, Philip H., assignor.)
- Sparrow, Martin E., Tampa, Fla. Glass protector for windows and doors. 1,731,114; Oct. 8.
- Sparrow, Maxwell E. (See Hoover, W. W., and Sparrow.)
- Sparrow, Walter F., Garden City, N. Y. Hearth. 1,702,709; Feb. 19.
- Sparrow, Walter F., Garden City, N. Y. Hearth. 1,702,710; Feb. 19.
- Sparshatt, John H., Portsmouth, England. Cover or tilt for road transport vehicles. 1,712,363; May 7.
- Sparshatt, John H., Portsmouth, England. Cover or tilt for road transport vehicles. 1,729,555; Sept. 24.
- Sparta Foundry Company. (See McFall, Thurlow E., assignor.)
- Spase, Charles B., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Motion-transmitting mechanism and clutch. 1,703,502; Feb. 26.
- Spase, Charles B., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Industrial-clutch construction. 1,731,064; Oct. 8.
- Spaulding, Eugene A., Portland, Me. Automatic water-feed control for humidifiers. 1,718,389; June 25.
- Spaulding, Eugene A., assignor to Southworth Machine Company, Portland, Me. Water-feed control for humidifiers. 1,730,172; Oct. 1.
- Spaulding Fibre Company. (See Benner, Howard E., assignor.)
- Spaulding, Franklin, Chicago, Ill. Moving-picture projector. 1,728,739; Sept. 17.
- Spaulding, Morrill B., Wayne, Pa. Method of and apparatus for filtering suspended organic matter from liquids. 1,709,286; Apr. 16.
- Spayd, Walker H., Van Wert, Ohio. Combined shock absorber and spring lubricator. 1,728,085; Sept. 10.
- Speaker, Charles, Washington, D. C. Thermionic vacuum-tube circuit. 1,728,014; Sept. 10.
- Speakman Company. (See Fraser, James, assignor.)
- Speakman, Walter F., and G. E. Crockett, Drumright, Okla. Sectional-derrick-leg clamp. 1,703,369; Feb. 26.
- Spear, Cameron, Oak Tree, N. J. Bumper. 1,724,431; Aug. 13.
- Spear, Cameron, Oak Tree, N. J. Air-cushion heel. 1,725,547; Aug. 20.
- Spear, Emma A., Takoma Park, Md. Attachment for garment supporters or hangers. 1,716,985; June 11.
- Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Train-signal lamp. 1,733,103; Oct. 22.
- Spear, Lawrence Y., New London, assignor to Electric Boat Company, Groton, Conn. Water-tight electrical connection. 1,731,597; Oct. 15.
- Spear, Walter A. (See Hott, I. V. K., and Spear.)
- Spear, William F., Harpenden, England. Adjustable spanner or wrench. 1,729,556; Sept. 24.
- Specht, Harry G., Fairfield, Conn. Curtain roller. 1,727,489; Sept. 10.
- Specialty Automatic Machine Company. (See La Bombard, L. E., and Sidebotham, assignors.)
- Specialty Display Case Company. (See Kollman, Charles F., assignor.)
- Specialty Envelope Company. (See Binder, Walter J., assignor.)
- Specialty Insulation Manufacturing Company. (See Bateholts, Clinton, assignor.)
- Speck, Frank R., Phoenix, Ariz. Sand picture and making it. 1,711,701; May 7.
- Speck, William C., and E. Barker, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Load support for hoists. 1,704,109; Mar. 5.
- Speck, William C., and E. Barker, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Apparatus for cleaning castings. 1,741,960; Dec. 31.
- Speck, William C., E. Barker, A. E. Whipple, and A. H. Dierker, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Apparatus for cleaning castings. 1,741,959; Dec. 31.
- Speck, William F., Memphis, Tenn. Cotton harvester. 1,740,274; Dec. 17.
- Specter, Elias, assignor to Bilt-Rite Baby Carriage Co., Brooklyn, N. Y. Baby carriage. 1,729,055; Sept. 24.
- Specter, Elias, assignor to one-half to Bilt-Rite Baby Carriage Co., Brooklyn, N. Y., and one-half to Collier-Keyworth Co., Gardner, Mass. Lock for baby-carriage backs. 1,735,063; Nov. 12.
- Spectrum Dyes Proprietary Limited. (See Lloyd, George F., assignor.)
- Speedanmat Manufacturing Company. (See Johnson, John E., assignor.)
- Speeder Machinery Corporation. (See Ronk, George T., assignor.)
- Speedpak Dispenser Corporation. (See Huntley, Burton L., assignor.)
- Speer Calendar Bank Co. (See Speer, Zeno M., assignor.)
- Speer, James E., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for controlling railway switches. 1,735,019; Nov. 12.
- Speer, Victor. (See Litchfield, E. C., and Speer.)
- Speer, Zeno M., Wauwatosa, assignor to Speer Calendar Bank Co., Milwaukee, Wis. Combined toy money bank and calendar-pad holder. Des. 73,128; Mar. 26.
- Speicher, Daniel E., and E. C. Faust, assignors to The Cyclone Manufacturing Company, Urbana, Ind. Feed trough. 1,709,753; Apr. 16.
- Speichert, Max, assignor to Hüttenwerke Tempelhof A. Meyer, Berlin-Tempelhof, Germany. Obtaining copper sulphate. 1,715,871; June 4.
- Speidel, Albert E. R., Edgewood, assignor to Speidel Bros., Providence, R. I. Bracelet. Des. 80,149; Dec. 17.
- Speidel Bros. (See Johnson, Sylvester A., assignor.)
- Speidel Bros. (See Speidel, Albert E. R., assignor.)
- Speidel Chain Co. (See Blaich, Richard, assignor.)
- Speidel Chain Co. (See Carlson, Edwin G., assignor.)
- Speidel Chain Co. (See Fassnacht, Karl, assignor.)
- Speidel Chain Co. (See Renz, Friedrich, assignor.)
- Speidel, Edwin F. M. (See Augustein, Karl C., assignor.)
- Speidel, Edwin F. M., Edgewood, R. I. Bracelet. 1,726,773; Sept. 3.
- Speidel, Edwin F. M., and K. C. Augustein, Cranston, R. I.; said Augustein assignor to said Speidel. Extension device. 1,701,020; Feb. 5.
- Speidel, Edwin F. M., and K. C. Augustein, Cranston, R. I.; said Augustein assignor to said Speidel. Extension device. 1,740,432; Dec. 17.
- Speidel, Eugen, Pforzheim, Germany, assignor to Fr. Speidel, Providence, R. I. Elastic member. 1,708,853; Apr. 9.
- Speidel, Eugen, Pforzheim, Germany, assignor to Fr. Speidel, Providence, R. I. Elastic member. 1,709,198; Apr. 16.
- Speidel, Fr. (See Speidel, Eugen, assignor.)



- Speidel, Friedrich, Pforzheim, Germany. Ornamental link structure. 1,718,765; June 25.
- Speidel, Robert, Calmbach, near Wildbad, Germany. Air filter. 1,717,470; June 18.
- Speirs, Henry, Brampton, Ontario, Canada. Beater for thrashing machines. 1,711,815; May 7.
- Speirs, Nellie, Sarasota, Fla. Landscape. 1,735,801; Nov. 12.
- Speirs, Stuart, New York, N. Y. Safety razor. 1,735,140; Nov. 12.
- Speiser, Arthur E., Fessenden, N. Dak. Combined match box and stamp holder. 1,730,791; Oct. 8.
- Spell, Perry W., Roseboro, N. C. Stalk cutter. 1,713,197; May 14.
- Spelling, Thomas C., New York, N. Y. Printing press. 1,703,326; Feb. 26.
- Spellman, John M., et al. (See Garrett, Henry, assignor.)
- Spence, Edward M., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Edge-finishing machine. 1,701,827; Feb. 12.
- Spence, Eugene V., San Angelo, Tex. Pavement. 1,704,771; Mar. 12.
- Spence, John. (See Williams, A. J., Bruer, and Spence.)
- Spence, John D., Eagle Rock, Calif. Adjustable wrench. 1,697,291; Jan. 1.
- Spence, Leroy E., and J. R. Hogate, Bladen, Nebr. Reenforced glass substitute. 1,713,198; May 14.
- Spence, William S., assignor to Rundle-Spence Mfg. Co., Milwaukee, Wis. Drinking fountain. Des. 79,766; Oct. 29.
- Spencer, Abbott K. (See Wilson, E. B., and Spencer.)
- Spencer, Cecil B., and L. M. Canaday, Albany, Ore. Device for peeling and coring pears. 1,699,034; Jan. 15.
- Spencer-Churchill, Edward G., London, England. Kiln. 1,734,885; Nov. 5.
- Spencer, Friend L., and T. Jones, Rochester, N. Y. Chisel. 1,709,497; Apr. 16.
- Spencer, George R., Pageland, S. C. Cleaning cotton. 1,723,531; Aug. 6.
- Spencer, Harold E., Surrey, assignor to Fisher's Foils Limited, London, England. Manufacture and filling of receptacles for liquid, semiliquid, powdery, granular, or solid substances. 1,712,454; May 7.
- Spencer, Henry K., Winchester, assignor to The Blanchard Machine Company, Cambridge, Mass. Abrasive wheel. 1,698,685; Jan. 8.
- Spencer, Horace M., Great Village, Nova Scotia, Canada. Harrow. 1,704,349; Mar. 5.
- Spencer, Hugh B., Duluth, Minn., assignor of one-half to W. R. Smith, Winnipeg, Manitoba, Canada. Grease plug. 1,698,773; Jan. 15.
- Spencer, Hugh M., Lockport, N. Y. Sized fibrous product and making same. 1,714,052; May 21.
- Spencer, Ira H., West Hartford, Conn. Outlet fixture for pneumatic systems. 1,717,471; June 18.
- Spencer, Ira H., assignor to The Spencer Turbine Company, West Hartford, Conn. Check valve. 1,708,907; Apr. 9.
- Spencer, Ira H., assignor to The Spencer Turbine Company, West Hartford, Conn. Cleaning implement. 1,727,524; Sept. 10.
- Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Temperature-controlling apparatus. 1,697,886; Jan. 8.
- Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Gas jet. 1,711,400; Apr. 30.
- Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Pilot cut-off for gas burners. 1,711,430; Apr. 30.
- Spencer, John A., Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Electric riveting machine. 1,718,715; June 25.
- Spencer John A. Revere, assignor to Spencer Thermostat Company, Cambridge, Mass. Circuit-interrupting device. 1,718,716; June 25.
- Spencer Lens Co. (See Ott, Harvey N., assignor.)
- Spencer, Millard C., East Orange, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Slow-speed synchronous motor. 1,708,334; Apr. 9.
- Spencer, Millard C., East Orange, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Translating system for converting alternating current into direct current. 1,708,908; Apr. 9.
- Spencer, Millard C., East Orange, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Rotor for induction motors. 1,708,909; Apr. 9.
- Spencer, Millard C., East Orange, assignor to Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Operating polyphase motors from a single-phase source. 1,708,910; Apr. 9.
- Spencer, Milton R., Woodstock, Ill. Wheeler top. 1,730,634; Oct. 8.
- Spencer, Owen H., Indianapolis, Ind. Vehicle body and tire carrier combined. 1,741,346; Dec. 31.
- Spencer, Percival H. (See Tuska, C. D., and Spencer.)
- Spencer, Richard V., Los Angeles, Calif. Combined traffic signal and lamp. Des. 79,674; Oct. 22.
- Spencer, Richard V., Los Angeles, Calif. Combined traffic signal and lamp post. Des. 79,764; Oct. 29.
- Spencer, Richard V., Richard V., Los Angeles, Calif. Aeroplane. 1,736,226; Nov. 19.
- Spencer, Robert C., Oak Park, Ill. Casement-window fastener. 1,711,159; Apr. 30.
- Spencer Thermostat Company. (See Boger, Robert F., assignor.)
- Spencer Thermostat Company. (See Marshall, Laurence K., assignor.)
- Spencer Thermostat Company. (See Maurer, Rufus H., assignor.)
- Spencer Thermostat Company. (See Sellman, Nils T., assignor.)
- Spencer Thermostat Company. (See Spencer, John A., assignor.)
- Spencer Turbine Company, The. (See Spencer, Ira H., assignor.)
- Spencer, Walter J., Emporia, Kans. Loading attachment for hay-baling machine. 1,714,643; May 28.
- Spengler, Charles C., Rockford, assignor to Spengler-Loomis Manufacturing Co., Chicago, Ill. Pencil holder for sharpeners. 1,722,771; July 30.
- Spengler-Loomis Manufacturing Co. (See Spengler, Charles C., assignor.)
- Spengler, Oskar, Neubabelsberg-Bergstucken, near Berlin, Germany. Coating cast iron with lead. 1,703,019; Feb. 19.
- Spengler, Oskar, Neubabelsberg-Bergstucken, and A. Thurm, Dessau in Anhalt, Germany. Tanning material. 1,698,659; Jan. 8.
- Spengler, Oskar, and R. Weidenhagen, Dessau in Anhalt, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Sulphur dyes. 1,705,840; Mar. 19.
- Spensley, Jacob W., Manchester, England. Producing intimate mixtures of substances, and for obtaining chemical products therefrom. 1,722,687; July 30.
- Sper, Ewald, Wannow, Czechoslovakia. Obtaining chlorination products from hydrocarbons. 1,721,873; July 23.
- Speranza, Ferminio, Avonmore, Pa. Window fly stop. 1,734,886; Nov. 5.
- Sper, Frederick W., jr., assignor to The Koppers Company, Pittsburgh, Pa. Aeration apparatus and method. 1,703,967; Mar. 5.
- Sper, Frederick W. jr., assignor to The Koppers Company, Pittsburgh, Pa. Gas and liquid contact apparatus. 1,715,252; May 28.
- Sper, Frederick W. jr., assignor to The Koppers Company, Pittsburgh, Pa. Gas and liquid contact apparatus, and method. 1,715,253; May 28.
- Sper, Frederick W., jr., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purification process and apparatus. 1,733,321; Oct. 29.
- Sper, Frederick W., jr., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purification process. 1,784,307; Nov. 5.
- Sperry Development Company. (See Sperry, Elmer A., assignor.)
- Sperry, Elmer A., Brooklyn, N. Y. Engine and the transmission of power therefrom. 1,697,292; Jan. 1.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del. Refining crude fuel oil. 1,699,879; Jan. 15.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Locking device for gyroscopes. 1,704,489; Mar. 5.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del. Beacon system for night flying. 1,709,377; Apr. 16.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Valve mechanism for internal-combustion engines. 1,711,703; May 7.
- Sperry, Elmer A., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Automatic projector lamp. 1,713,929; May 21.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to The Sperry Development Company, Dover, Del. Crankless engine. 1,714,145; May 21.
- Sperry, Elmer A., jr., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Multi-step repeater motor. 1,715,311; May 28.
- Sperry, Elmer A. jr., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Repeater compass. 1,724,432; Aug. 13.
- Sperry, Elmer A., jr., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Automatic pilot. 1,725,599; Aug. 20.
- Sperry, Elmer A., jr., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Automatic pilot. 1,725,600; Aug. 20.
- Sperry, Elmer A., jr., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Automatic steering for dirigible craft. 1,730,951; Oct. 8.
- Sperry, Elmer A., jr., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Course-maintaining means for automatic pilots. 1,730,952; Oct. 8.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del. Automatic launching device for airplanes. 1,734,353; Nov. 5.
- Sperry, Ernest C., La Mesa, Calif. Crossbow gun. 1,704,810; Mar. 12.
- Sperry Gyroscope Company, The. (See Bassett, Preston R., assignor.)
- Sperry Gyroscope Company. (See Bates, Mortimer F., assignor.)
- Sperry Gyroscope Company. (See Carter, Leslie F., assignor.)
- Sperry Gyroscope Company. (See Chantemerle, Joseph L., assignor.)



- Sperry Gyroscope Company, The. (See Drake, Harcourt C., assignor.)
- Sperry Gyroscope Company, The. (See Gillmor, Reginald E., assignor.)
- Sperry Gyroscope Company, The. (See House, Frank R., assignor.)
- Sperry Gyroscope Company. (See Mills, Chester B., assignor.)
- Sperry Gyroscope Company. (See Myers, Shierfield G., assignor.)
- Sperry Gyroscope Company, The. (See Schein, Alexander E., assignor.)
- Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)
- Sperry Gyroscope Company. (See Sperry, Elmer A., Jr., assignor.)
- Sperry Gyroscope Company. (See Sperry, Lawrence B., assignor.)
- Sperry Gyroscope Company. (See Tanner, Harry L., assignor.)
- Sperry, J. C., et al. (See Rosenthal, C., and Armistead, assignors.)
- Sperry, John B., assignor to American Water Corporation, Aurora, Ill. Well apparatus. 1,697,482; Jan. 1.
- Sperry, Lawrence, Aircraft Company. (See Sperry, Lawrence B., assignor.)
- Sperry, Lawrence B., deceased, Farmingdale; The Bank of America, New York, and W. A. Sperry, Hempstead, executors, assignors to The Pioneer Instrument Company, Inc., Brooklyn, N. Y. Sextant. 1,697,293; Jan. 1.
- Sperry, Lawrence B., Farmingdale, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Pitch indicator. 1,713,930; May 21.
- Sperry, Lawrence B., assignor, by mesne assignments, to Lawrence Sperry Aircraft Company, Inc., Farmingdale, Long Island, N. Y. Device for launching and landing aeroplanes from and upon suspended positions. 1,716,670; June 11.
- Sperry, Lawrence B., Garden City, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Automatic pilot for airplanes. 1,707,690; Apr. 2.
- Sperry, Samuel E., Hollis, assignor to Intertype Corporation, Brooklyn, N. Y. Mold for line casting machines. 1,723,712; Aug. 6.
- Sperry, Samuel E., Hollis, assignor to Intertype Corporation, Brooklyn, N. Y. Line-casting machine. 1,727,314; Sept. 3.
- Sperry, Samuel E., Hollis, assignor to Intertype Corporation, New York, N. Y. Shifting means for matrix magazines. 1,731,154; Oct. 8.
- Sperry, Samuel E., Hollis, assignor to Intertype Corporation, New York, N. Y. Keyboard mechanism for typographical machines. 1,734,922; Nov. 5.
- Sperry, Samuel E., Hollis, assignor to Intertype Corporation, Brooklyn, N. Y. Slug-trimming knife. 1,741,079; Dec. 24.
- Sperry, Winifred A., et al., executors. (See Sperry, Lawrence B.)
- Sperry, Charles F., Chicago, Ill., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Radiator construction. 1,721,284; July 16.
- Sperry, Charles F., Chicago, Ill., assignor to McCord Radiator & Mfg. Co., Detroit, Mich. Radiator. 1,721,285; July 16.
- Sperry, Philmore F., Chicago, Ill., assignor to W. Freeman, Des Moines, Ia. Extension trunk. 1,733,917; Oct. 29.
- Spevak, Otto F., Chicago, Ill. Spare-tire lock. 1,703,370; Feb. 26.
- Spexarth, Julia, Vancouver, Wash. Girdle and hose support. 1,730,792; Oct. 8.
- Sphinx Manufacturing Company. (See Glauber, Myron J.)
- Spicer, Charles R., et al. (See Bruce, Clem C., assignor.)
- Spicer, Clarence W., Plainfield, N. J., assignor to Spicer Manufacturing Corporation. Universal joint. 1,721,322; July 16.
- Spicer, Delphin H., Lakewood, Ohio. Tire inflater. 1,708,637; Apr. 9.
- Spicer Manufacturing Corporation. (See Peters, Frederick W., assignor.)
- Spicer Manufacturing Corporation. (See Spicer, Clarence W., assignor.)
- Spickler, Freddie D., Jr., and P. E., Leaf River, Ill. Stock waterer. 1,704,226; Mar. 5.
- Spickler, Preston E. (See Spickler, Freddie D., Jr., and P. E.)
- Spidel, Arthur S., Brewster, assignor of one-half to E. A. Hamilton, Navarre, Ohio. Attachment-plug cap. 1,712,738; May 14.
- Spiegel, Edward R. (See Miller, J. W., and Spiegel.)
- Spiegel, Elmer B., Two Rivers, Wis. Concrete mixer. 1,728,086; Sept. 10.
- Spiegel, May, Stern Co. (See Gollnick, P. A., and Toolan, assignors.)
- Spiegel, May, Stern Company. (See Gollnick, P. A., Toolan, and Kranz, assignors.)
- Spiegel, Walter, Douglaston, N. Y., and A. Szalardi, Wilkinsburg, Pa. Tooth-cleaning apparatus. 1,733,631; Oct. 29.
- Spiegelberg, George A., executor. (See Goldsmith, Byron B.)
- Spiegelberg, Johan H. F., Skarsatra, Lidington, near Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Automatic mantle-renewal means for gas-illuminated signal apparatus. 1,713,986; May 21.
- Spiegelberg, John H. F., Skarsatra, Lidington, near Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Gas-illuminated signal apparatus with automatic mantle renewal. 1,713,985; May 21.
- Spier, Joseph. (See Reber, E., and Spieler.)
- Spielman, Milton H., Shaker Heights Village, assignor to Born Steel Range Company, Cleveland, Ohio. Electrically-operated roasting spit. 1,738,328; Dec. 3.
- Spielman, William J. (See Herwig, C., Jr., and Spielman.)
- Spier, Martin. (See Turk, Samuel E., assignor.)
- Spierer, Charles, Geneva, Switzerland. Apparatus for lighting objects for the ultramicroscope. 1,724,527; Aug. 13.
- Spies, Friedrich W. E., Velsen-Noord, Netherlands. Granulating molten slag. 1,699,575; Jan. 22.
- Spies, Peter H. F., assignor to Automatic Nut-Thread Corporation, Buffalo, N. Y. Nut-making machine. 1,719,568; July 2.
- Spies, Georg, Leipzig-Plagwitz, Germany. Web-feeding mechanism. 1,699,507; Jan. 15.
- Spies, Georg, Leipzig-Plagwitz, Germany. Apparatus for feeding folded or unfolded sheets to a printing, folding, or other machine. 1,705,505; Mar. 19.
- Spies, Georg, Leipzig-Plagwitz, Germany. Sheet-lifting device working with suckers. 1,705,506; Mar. 19.
- Spies, Georg, Leipzig-Plagwitz, Germany. Apparatus for feeding folded or unfolded sheets to printing, folding, or other machines. 1,708,157; Apr. 9.
- Spies, Georg, Leipzig-Plagwitz, Germany. Sheet-feeding mechanism. 1,714,527; May 28.
- Spies, Georg, Leipzig-Plagwitz, Germany. Cross-folding machine. 1,725,837; Aug. 27.
- Spies, Georg, Leipzig-Plagwitz, Germany. Cross-folding machine. 1,730,749; Oct. 8.
- Spies, Georg, Leipzig-Plagwitz, Germany. Mechanism for imparting intermittent motion to bands or webs. 1,737,204; Nov. 26.
- Spies, Georg, Leipzig, Germany. Folding device. 1,725,809; Aug. 20.
- Spies, Gustave N., Wauwatosa, assignor to Hunter Machinery Company, Milwaukee, Wis. Snowplow. 1,697,697; Jan. 1.
- Spies, Paul, assignor to the firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Surface condenser. 1,711,332; Apr. 30.
- Spith, William C., Geneva, Ohio. Electric arc lamp. Des. 79,859; Nov. 5.
- Spikins, Mark, Chicago, Ill. Adjustable pencil holder. 1,704,772; Mar. 12.
- Spill, Frank, assignor to The Spill Manufacturing Co., Inc., East Rutherford, N. J. Spectacle frame for eyeglasses. Des. 80,150; Dec. 17.
- Spill, Frank, East Rutherford, N. J., assignor to The Spill Manufacturing Co., Inc., East Rutherford, N. J. Method and apparatus for manufacturing frames for sunglasses and the like. 1,739,696; Dec. 17.
- Spill Manufacturing Co., The. (See Spill, Frank, assignor.)
- Spillane, Arthur J., assignor of one-third to M. W. Fraser, Toledo, Ohio. Savings calendar. 1,704,773; Mar. 12.
- Spillane, James D., Bronx, assignor to The Constantator Co., Inc., New York, N. Y. Motive-power regulator. 1,741,381; Dec. 31.
- Spillane, Lawrence J., assignor of one-half to D. C. Follas, Toledo, Ohio. Religious article. 1,732,733; Oct. 22.
- Spillman, Albert, North Tonawanda, N. Y. Driving mechanism for merry-go-rounds. 1,727,490; Sept. 10.
- Spillmann, Max, Richfield, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Condensing apparatus. 1,719,909; July 9.
- Spillmann, Max, Richfield, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Centrifugal pump. 1,734,000; Oct. 29.
- Spilsbury, Hugh G., Cranford, assignor, by mesne assignments, to F. Earle, Montclair, N. J. Welding process. 1,727,570; Sept. 10.
- Spina, Joseph A., Niagara Falls, assignor to Hooker Electromechanical Company, New York, N. Y. Manufacture of ammonium benzoate. 1,704,636; Mar. 5.
- Spinasse, Arthur E., Mount Vernon, Ohio. Process and apparatus for drawing glass. 1,701,899; Feb. 12.
- Spinasse, Arthur E., Mount Vernon, Ohio. Apparatus for drawing glass. 1,722,483; July 30.
- Spindler, Gustav, San Francisco, Calif. Microscopical lamp. Des. 77,374; Jan. 1.
- Spinney, Andrew G. (See Twigg, C. A., and Spinney.)
- Spinney, Andrew G., and C. A. Twigg, Portland, Me. Safety device for hot-water boilers. 1,735,415; Nov. 12.
- Spinola, Francisco L., Fall River, Mass. Safety lighter for gas stoves or the like. 1,714,931; May 28.
- Spiral-Rolled Products Co. (See Lapham, Marshall, assignor.)
- Spiral-Rolled Products Co. (See Williams, Frank H., assignor.)
- Spire, Pierre, and L. Rolland, Roanne, France. Suspension, steering gear, and braking gear for automobiles. 1,703,792; Feb. 26.
- Spiro, Walter J., White Plains, N. Y. Adjustable securing bolt. 1,732,992; Oct. 22.
- Spiro, Walter J., White Plains, N. Y. Adjustable bolt mounting. 1,732,993; Oct. 22.
- Spiro, Walter J., White Plains, N. Y. Steel running board. 1,732,994; Oct. 22.



- Spitz, Samuel, New York, N. Y. Toilet article. 1,717,125; June 11.
- Spitzenberg, Georg K., Zackerick, Germany. Hand hoe. 1,722,063; July 23.
- Spitzer, Maurice, New York, N. Y., assignor to Rink-le-proof Box Co., Inc. Packing box. Re17,351; July 2.
- Spitzglass, Jacob M., assignor to Republic Flow Meters Company, Chicago, Ill. Boiler efficiency meter. 1,730,541; Oct. 8.
- Spitznagel, Alfred C., Sand Springs, Okla. Hydraulic lift device. 1,728,452; Sept. 17.
- Spitzstein, Ludwig, Vienna, Austria, assignor to G. S. Pollitz, New York, N. Y. Curling tongs provided with heatable irons. 1,740,207; Dec. 17.
- Spivey, Claude T., assignor to Fresno Agricultural Works, Fresno, Calif. Sulphuring machine. 1,700,726; Jan. 29.
- Splitdorf Electrical Company. (See Nowosielski, Edward B., assignor.)
- Spoehrer, Hermann F., assignor to St. Louis Motor Valve Company, St. Louis, Mo. Valve-operating means. 1,728,015; Sept. 10.
- Spofford, Stephen E., Lynn, Mass. Screw driver. 1,722,116; July 23.
- Sponable, Earl L., assignor to Fox-Case Corporation, New York, N. Y. Reproducing apparatus. 1,736,139; Nov. 19.
- Sponar, Aloysius T., assignor to John Wood Manufacturing Company, Conshohocken, Pa. Air-heating apparatus. 1,717,327; June 11.
- Sponberg, Henry, Loomis, Nebr. Variable tuning condenser. 1,733,281; Oct. 29.
- Sponholz, Wilhelm, Berlin, Germany. Textile fabric and making same. 1,709,887; Apr. 23.
- Sponholz, William C., Chicago, Ill., assignor to International Silver Company, Bridgeport, Conn. Spoon or similar article. Des. 79,109; July 30.
- Spoon or similar article. E. Saarinen. Des. 79,854; Nov. 5.
- Spooner, Albert C., Chicago, Ill. Rendering appliance. 1,737,738; Dec. 3.
- Spooner, Thomas, Edgewood, Pa., assignor to Westing-house Electric & Manufacturing Company. Magnetic pyrometer. 1,697,148; Jan. 1.
- Spor, John R., Kalamazoo, Mich. Stock-controlling means for paper-making machines. 1,741,347; Dec. 31.
- Spor-Thompson Machine Company. (See Thompson, Fredrick B., assignor.)
- Sporborg, William D., et al., executors. (See Adelman, William.)
- Sporer, Friedrich, Nuremberg, Germany. Apparatus for collecting bronze dust from stamping mills. 1,739,267; Dec. 10.
- Sporn, Philip. (See Sindeband, M. L., and Sporn.)
- Spotswood, Robert E. L., Spring Hill, Ala. Sign attachment for automobiles. 1,733,918; Oct. 29.
- Spowers, William H., Essex Fells, N. J. Textile fabric. Des. 77,875; Jan. 1.
- Spraco, Inc. (See Preble, James J., assignor.)
- Spraco, Inc. (See Thompson, Wayne B., assignor.)
- Sprague, Arthur E., Hornell, N. Y. Toy airplane. 1,708,335; Apr. 9.
- Sprague, Charles F., Swampscott, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass. Box making. 1,708,596; Apr. 9.
- Sprague, Clarence A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Current-controlling and static-reducing system. 1,711,658; May 7.
- Sprague, Clarence A., East Orange, N. J., assignor to Radio Corporation of America. Control of electrical energy. 1,725,940; Aug. 27.
- Sprague, Clarence A., East Orange, N. J., assignor to Radio Corporation of America. Control of electrical energy. 1,739,924; Dec. 17.
- Sprague, Earl D. (See Shipman, Robert L., assignor.)
- Sprague, Frank J., New York, N. Y. Electric toaster. 1,706,259; Mar. 19.
- Sprague-Hathaway Manufacturing Co. (See Thonet, Joseph R., assignor.)
- Sprague-Sells Corporation. (See Babcock, Leland A., assignor.)
- Sprague-Sells Corporation. (See de Back, William, assignor.)
- Sprague-Sells Corporation. (See Gardner, George D., assignor.)
- Sprague-Sells Corporation. (See McGhee, T. and Woodhead, assignors.)
- Sprague-Sells Corporation. (See Schmidt, John, assignor.)
- Sprague, Vernon T., assignor to The Borden Company, Warren, Ohio. Centering clamp for pipe-working tools. 1,701,281; Feb. 5.
- Sprague, William, jr., Monticello, Ill. Loop-antenna mounting. 1,720,154; July 9.
- Sprague, William F. & Co. (See Kayan, Fritz, assignor.)
- Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of highway crossing signals. 1,698,459; Jan. 8.
- Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,701,702; Feb. 12.
- Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-switch-controlling apparatus. 1,705,593; Mar. 19.
- Spray, Lester E., Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 1,709,888; Apr. 23.
- Spray, Lester E., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,728,773; Sept. 17.
- Sprecher, Peter W., Milwaukee, Wis. Lighting fixture. 1,714,110; May 21.
- Spreckels, Otto. (See Peters, Claus, assignor.)
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. Re17,518; Dec. 10.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,711,252; Apr. 30.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Valved compressor piston. 1,711,253; Apr. 30.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Refrigeration. 1,711,254; Apr. 30.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Condenser assembly. 1,711,702; May 7.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,717,857; June 18.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,720,767; July 16.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Cooling unit for refrigerating mechanism. 1,720,768; July 16.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Machinery support. 1,727,945; Sept. 10.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Refrigeration. 1,727,946; Sept. 10.
- Spreen, Charles C., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 1,728,578; Sept. 17.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Fluid cooler. 1,733,760; Oct. 29.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Mechanical refrigeration. 1,737,776; Dec. 3.
- Spreen, Charles C., Detroit, Mich. Journal-bearing seal. 1,737,777; Dec. 3.
- Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Cooling unit for refrigerators. 1,737,778; Dec. 3.
- Spreiter, Walter F., Staples, Minn. Vehicle window screen. 1,697,092; Jan. 1.
- Sprekelmeyer, John. (See O'Rourke, A., jr., and Sprekelmeyer.)
- Sprenger, Joseph J., and R. L. Sorensen, Indianapolis, Ind. Handle and dice container. 1,716,011; June 4.
- Sprenger, Joseph J., and R. L. Sorensen, Indianapolis, Ind. Drawer pull or the like. Des. 77,864; Feb. 26.
- Sprenger, Dr. Otto, Patentverwertung Jirotk m. b. H. (See Jirotk m. b. H., assignor.)
- Sprigg, William M., Washington, D. C. Surgical clamp. 1,708,432; Apr. 9.
- Spring, Frank S., assignor to Walter M. Murphy Co., Pasadena, Calif. Automobile door windshield. 1,706,502; Mar. 26.
- Spring, George B., Newton, Mass. Reinforcement for poles. 1,712,364; May 7.
- Spring, George B., West Newton, Mass. Pole reinforcement. 1,726,371; Aug. 27.
- Spring, Joseph, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Powder dispenser. 1,714,281; May 21.
- Springer, Franklin W., Minneapolis, Minn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Thermometer. 1,724,528; Aug. 13.
- Springer, Henry S., Camden, N. J. Carton opener. 1,705,882; Mar. 19.
- Springer, John E., assignor of one-half to H. S. Hurlbut, Baltimore, Md. Railway tie and rail seat. 1,713,454; May 14.
- Springfield Aluminum Plate & Castings Company, The. (See Parker, Ernest A., assignor.)
- Springstead, Frank P., Bartlesville, Okla. Oil burner. 1,705,213; Mar. 12.
- Sprinkle, Lake H., Brooklyn, N. Y. Artificial tooth and facing. 1,735,217; Nov. 12.
- Sprinkle, Lake H., Brooklyn, N. Y. Lining with foil anchorage openings in artificial teeth and facings. 1,735,218; Nov. 12.
- Sprockhoff, Maximilian, St. Georgen, near Freiburg, Germany. Separator. 1,732,386; Oct. 22.
- Sproles, William V., La Feria, Tex. Fan attachment for tractors. 1,721,645; July 23.
- Sprong, William J. (See Rau, J. B., and Sprong.)
- Sprott, Earl S., assignor to The General Fireproofing Company, Youngstown, Ohio. Shelving construction. 1,700,549; Jan. 29.
- Sproul, Donald F., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,720,927; July 16.
- Sproul, E. W., Company. (See Sproul, W. R., and Laver, assignors.)
- Sproul, Wilford R., Chicago, and H. Laver, Winnetka, assignors to E. W. Sproul Company, Chicago, Ill. Concrete building construction. 1,727,791; Sept. 10.



- Sprout, Waldron and Company. (See Snyder, Simon, assignor.)
- Sprucolite Corporation, Inc. (See Ollesheimer, Lawrence J., assignor.)
- Sprung, Edwin G., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,697,791; Jan. 1.
- Sprung, Edwin G., assignor to The Studebaker Corporation, South Bend, Ind. Radiator. 1,697,792; Jan. 1.
- Spry, William M., Beachmont, assignor to The Peerless Machinery Company, Boston, Mass. Buffing machine. 1,739,660; Dec. 17.
- Spun Steel Corporation, The. (See Nelson, Reynold G., assignor.)
- Spurck, Robert M., Schenectady, N. Y., assignor to General Electric Company. High-potential switching station. 1,733,077; Oct. 22.
- Spurr, Robert E. (See Probert, S. C., and Spurr.)
- Spyker, Dirk J., Grandville, and T. G. Kindel, Grand Rapids, Mich., assignors to Kindel Furniture Company. Bedpost or similar article. Des. 79,535; Oct. 1.
- Square D Company. (See Ball, Albert P., assignor.)
- Square D Company. (See Hausmann, Lemuel M., assignor.)
- Square D Company. (See Widmer, Jules A., assignor.)
- Squibb, E. R., and Sons. (See Nitardy, Ferdinand W., assignor.)
- Squier, Geo. L., Mfg. Co., The. (See Simons, Walter B., assignor.)
- Squire, Albert J., and J. J. Lindvart, Kaikohe, Bay of Islands, New Zealand. Cream aerator. 1,700,186; Jan. 29.
- Squire, Frank M., Hollis, N. Y., assignor to De Forest Radio Telephone & Telegraph Co., Jersey City, N. J. Antenna. 1,696,928; Jan. 1.
- Squire, Frank M., Hollis, N. Y., assignor to Brandes Laboratories, Inc. Electrical condenser. 1,712,011; May 7.
- Squire, Frank M., Hollis, N. Y., assignor to De Forest Radio Telephone & Telegraph Co., Jersey City, N. J. Reducing interfering voltages in radio apparatus. 1,720,453; July 9.
- Squires, Fred A., Omaha, Nebr. Map holder. 1,730,790; Oct. 8.
- Staak, Julius H., Fort Wayne, Ind., assignor to General Electric Company. Dynamo-electric machine. 1,721,419; July 16.
- Staatliche Porzellan Manufaktur. (See König, A., and Müller, assignors.)
- Stace, Austin T. (See Young, A. P., and Stace.)
- Stacey, William A., Chicago, Ill., assignor to The Bryant Electric Company, Bridgeport, Conn. Plug receptacle. 1,702,177; Feb. 12.
- Stachnyk, Nicholas, assignor of one-third to Dmytro Sosiak, Moose Jaw, Saskatchewan, Canada. Land and water vehicle. 1,700,384; Jan. 29.
- Stachowski, Joseph F., Appleton, Wis. Expansion shaft. 1,710,902; Apr. 30.
- Stack, Maurice J., Cohoes, N. Y., assignor to Brintnall Manufacturing Company, Inc. of Delaware, Wilmington, Del. Making bats. 1,712,124; May 7.
- Stackelberg, Fritz C. A. L., Stockholm, Sweden. Line float for casting. 1,707,820; Apr. 2.
- Stackhouse, George A., Oakland, Calif., assignor to The L. A. Young Industries, Inc., Detroit, Mich. Helical-coil-spring assembling, cutting, and hook-forming machine. 1,716,093; June 4.
- Stackhouse, Thomas A. (See Duncan, John H., assignor.)
- Stackhouse, Thomas H., Wilmington, Del. Motor fuel. 1,741,206; Dec. 31.
- Stacks, Homer, Detroit, Mich. Vehicle body construction. 1,738,329; Dec. 3.
- Stacy Adams Company. (See Cort, Benjamin H., assignor.)
- Stacy, Leland J., Caldwell, and M. E. Krom, Madison, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alarm. 1,725,022; Aug. 20.
- Stacy, Thomas F., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Hydraulic press. 1,709,921; Apr. 23.
- Stadelman, Edward S. (See Pos, M. J., Stadelman, and Fairbairn.)
- Stadelman, Edward S., Newark, N. J. Pulley. 1,728,704; Sept. 17.
- Stader, Florence M., Plymouth, Mich. Apparatus for teaching reading. 1,706,550; Mar. 26.
- Stadium Underwear Company. (See Grageser, Charles F., assignor.)
- Stadt, William H., and H. Muyskens, Glendale, Calif. Rear-sight mirror. 1,717,072; June 11.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,700,601; Jan. 29.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Speed-regulator system. 1,702,486; Feb. 19.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,705,688; Mar. 19.
- Staeger, Stephen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,709,689; Apr. 16.
- Staf, Axel H., assignor to Gorham Mfg. Co., Providence, R. I. Spoon or similar article. Des. 77,656; Feb. 5.
- Staf, Axel H., assignor to Gorham Mfg. Co., Providence, R. I. Spoon or similar article. Des. 79,170; Aug. 6.
- Staf, Axel H., Providence, R. I., assignor to The Alvin Corporation, New York, N. Y. Spoon or similar article. Des. 77,792; Feb. 19.
- Staf, Axel H., Providence, R. I., assignor to The Alvin Corporation, New York, N. Y. Spoon or similar article. Des. 78,227; Apr. 9.
- Staf, Axel H., Providence, R. I., assignor to The Alvin Corporation, New York, N. Y. Spoon or similar article. Des. 78,228; Apr. 9.
- Stafford, Delbert M., et al. (See Wesseler, William J., assignor.)
- Stafford, Ethel G., Bradenton, Fla. Dental floss holder. 1,700,550; Jan. 29.
- Stafford, Ethel G., Bradenton, Fla. Dental floss holder. 1,700,551; Jan. 29.
- Stafford, Ethel G., Springfield, Ill. Dental floss holder. 1,700,690; Jan. 29.
- Stafford, James G. (See Phillips, E. B., and Stafford.)
- Stafford, Lewis F., assignor to L. Barnes, Chicago, Ill. Collapsible seat. 1,702,280; Feb. 19.
- Stafford, Stephen B., Oxford, and J. W. Vedder, assignors to Rice, Barton & Pales, Incorporated, Worcester, Mass. Paper drier. 1,731,876; Oct. 15.
- Stagg, Jones P., Hartwell, Ohio, assignor to The Philip Carey Manufacturing Company. Built-up roof. 1,705,160; Mar. 12.
- Staggs, Horace M., Shreveport, La. Hydraulic long-stroke pump mechanism. 1,714,528; May 28.
- Stahl, Chalmers J., et al. (See Watters, Chalmers E., assignor.)
- Stahl, Eugen, Dusseldorf, Germany. Football boot and the like. 1,726,198; Aug. 27.
- Stahl, Karl, assignor to the firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Airship truck. 1,720,928; July 16.
- Stahl, Karl L., Little Rock, Ark. Radio ground. 1,713,721; May 21.
- Stahl, Mary A., Ocheyedan, Iowa. Pie rack. 1,731,598; Oct. 15.
- Stahl, Samuel S., Kansas City, Kans. Reserve valve for tanks. 1,714,250; May 21.
- Stable, Erik G., Pittsburgh, assignor to Libbey-Owens Glass Company, Toledo, Ohio. Sheet-glass-surfacing apparatus. 1,739,925; Dec. 17.
- Stahlhut, Edward E., Sunnyside, Wash. Wall-texture composition. 1,705,074; Mar. 12.
- Stahlhut, Henry W., Fort Wayne, Ind., assignor to General Electric Company. Handling sheet steel. 1,708,854; Apr. 9.
- Stahlhut, Arthur H., assignor to General Motors Corporation, Detroit, Mich. Vehicle brake. 1,705,035; Mar. 12.
- Staiger, Ludwig, Birkenwerder, near Berlin, assignor to the firm Rohrbach Metall-Flugzeugbau G. m. b. H., Berlin, Germany. Wing box. 1,716,012; June 4.
- Staiger, Ludwig, Birkenwerder, near Berlin, assignor to the firm: Rohrbach Metall-Flugzeugbau G. m. b. H., Berlin, Germany. Seaplane. 1,720,698; July 16.
- Stair, Anna D., et al. (See Stair, Frank H., assignor.)
- Stair, Frank H., assignor of one-fourth to Anna D. Stair, one-fourth to G. W. Thomas, and one-fourth to S. Grosinger, Scranton, Pa. Lamp reflector. 1,728,838; Sept. 17.
- Stairs, Walter S., Philadelphia, Pa. Loom for weaving pile fabric. 1,702,368; Feb. 19.
- Stalb, Arthur R., Jr., Farmingdale, assignor to Fairchild Aviation Corporation, New York, N. Y. Pontoon-attaching means. 1,704,713; Mar. 12.
- Stalcup, Doyle E., Okmulgee, Okla. Projecting apparatus. 1,711,909; May 7.
- Stalder, Louis. (See MacGahan, P., and Stalder.)
- Staley, Earl B., Seattle, Wash. Multiple-compartment tank. 1,716,907; June 11.
- Staley, Joseph H., Columbus, Ind. Factory truck. 1,728,839; Sept. 17.
- Staley, Raleigh H., assignor to The Baker Manufacturing Company, Springfield, Ill. Tongue and bolster construction. 1,706,260; Mar. 19.
- Staley, Raleigh H., assignor to The Baker Manufacturing Company, Springfield, Ill. Scraper pan. 1,713,404; May 14.
- Stalker, Leo M., Cedar Rapids, Iowa. Laundry air dasher. 1,734,354; Nov. 5.
- Stallard, Elgin M., and F. B. Hale, Fort Worth, Tex. Nut lock. 1,711,861; May 7.
- Stallard, Roswell G., Centralia, Wash. Pipe union. 1,740,910; Dec. 24.
- Stallbaum, Charles F., Everett, Wash. Floor-lamp body. Des. 78,170; Apr. 2.
- Stallcup, Furman P., Jonesboro, Ark. Coin-controlled gasoline pump. 1,736,806; Nov. 26.
- Stallings, George W., assignor to Watts-Morehouse Company, Jackson, Mich. Trunk. 1,712,720; May 14.
- Stallmann, Otto. (See Gubelmann, I., Weiland, and Stallmann.)
- Stallworth, Elbert, Americus, Ga. Electric chamber. 1,727,842; Sept. 10.
- Stalmach, Frank J., assignor of one-half to M. Eidelbach, Houston, Tex. Electric alarm system. 1,729,137; Sept. 24.
- Stalter, Charles E., Haslett, Mich. Collapsible furniture. 1,735,513; Nov. 12.



- Stam, Cyrus P., Floral Park, assignor to Oberly & Newell, 545 Pearl St. Corp., New York, N. Y. Advertising-display device. 1,734,782; Nov. 5.
- Stam, Martinus J., The Hague, Netherlands. Hollow pole. 1,723,216; Aug. 6.
- Stam, Martinus J., The Hague, Netherlands. Pole footing. 1,725,023; Aug. 20.
- Stambaugh, Harry R., assignor to one-half to W. H. Rinebold, Potosia, Ohio. Automatic shut-off valve. 1,712,056; May 7.
- Stambaugh, Russell W. (See Miller, E. S., Stambaugh, and McKown.)
- Stamford Wall Paper Company. (See Leitch, Frank E., assignor.)
- Stamm, Charles P., Cincinnati, Ohio. Parting material for molds. 1,698,972; Jan. 15.
- Stamm, John G., East Cleveland, Ohio, assignor to The Hoover Company. Vacuum-cleaner casing. Des. 78,904; July 2.
- Stamm, John G., East Cleveland, Ohio, assignor to The Hoover Company. Vacuum-cleaner casing. Des. 78,905; July 2.
- Stamper, Henry G., Union, Miss. Stamping machine. 1,707,149; Mar. 26.
- Stanbrough, Clarence P., Stockton, Calif. Box-strapping device. 1,737,779; Dec. 3.
- Stanbrough, William M., Newburgh, N. Y. Lower dental plate. 1,709,690; Apr. 16.
- Stanbrough, William M., Newburgh, N. Y. Layer for upper dentures. 1,739,527; Dec. 17.
- Stancill, Robert B., Dalton, Ga., assignor to Draper Corporation, Hopedale, Mass. Loom shuttle attachment. 1,703,433; Feb. 26.
- Stancliff, Fay L., Houston, Tex. Adjustable window. 1,714,575; May 28.
- Stancu, George, jr., Philadelphia, Pa. Universal plug valve. 1,730,305; Oct. 1.
- Stancu, George, jr., Philadelphia, Pa. Valve for tank cars and the like. 1,740,319; Dec. 17.
- Standard Automatic Machine Company. (See Pennock, Theodore E., assignor.)
- Standard Brands Incorporated. (See Hamburger, R., Kaesz, and Hartig, assignors.)
- Standard Cap & Seal Corporation. (See Tevander, Olof N., assignor.)
- Standard Car Truck Company. (See Webb, Edwin W., assignor.)
- Standard Chain Company. (See Kittelson, Helmer C., assignor.)
- Standard Computing Scale Company, The. (See Elckhoff, Theodore H., assignor.)
- Standard Computing Scale Company, The. (See Jaenichen, Louis, assignor.)
- Standard Conveyor Company. (See Wego, Peter C., assignor.)
- Standard-Coosa-Thatcher Company. (See Caldwell, James J., assignor.)
- Standard Coosa Thatcher Company. (See Caldwell, J. J. and Gravel, assignors.)
- Standard-Coosa-Thatcher Company. (See Gravel, David, assignor.)
- Standard Corset Company. (See Von Halle, Millard, assignor.)
- Standard Development Company. (See McKenzie-Martyn, Edward C., assignor.)
- Standard Devices, Inc. (See Schieder, Karl, assignor.)
- Standard Disk Wheel Company. (See Clench, William A., assignor.)
- Standard Electric Manufacturing Co., The. (See Parker, Thomas L., assignor.)
- Standard Electric Stove Company, The. (See Pierson, Charles A., assignor.)
- Standard Envelope Manufacturing Company, The. (See Nelson, Robert A., assignor.)
- Standard Forgings Company. (See Jernberg, Carl R., assignor.)
- Standard Gage Company. (See Aldeborgh, Erik H., assignor.)
- Standard Gage Company. (See Ruf, Cristian E., assignor.)
- Standard Gas Engine Co. (See Hamilton, Rush, assignor.)
- Standard Gas Equipment Corporation. (See Erskine, James, assignor.)
- Standard Gas Equipment Corporation. (See McGee, Earl, assignor.)
- Standard Gas Equipment Corporation. (See O'Dowd, Henry W., assignor.)
- Standard-Johnson Company. (See Donnellan, Edward P., assignor.)
- Standard Machinery Co., The. (See Wheeler, John R., assignor.)
- Standard Mirror Company Inc. (See La Hodny, William, assignor.)
- Standard Neckwear Company. (See Weinstein, Otto, assignor.)
- Standard Novelty Works. (See Maneval, Charles H., assignor.)
- Standard Oil Company. (See Atwell, Harold V., assignor.)
- Standard Oil Company. (See Bartels, Edward E., assignor.)
- Standard Oil Company. (See Bransky, O. E., and Rogers, assignors.)
- Standard Oil Company. (See Broderson, Henry J., assignor.)
- Standard Oil Company. (See Engbrecht, Herman J., assignor.)
- Standard Oil Company. (See Erickson, Cyril L., assignor.)
- Standard Oil Company. (See Hamblen, Jennings E., assignor.)
- Standard Oil Company. (See Holland, William W., assignor.)
- Standard Oil Company. (See Lane, Robert S., assignor.)
- Standard Oil Company. (See Moore, George L., assignor.)
- Standard Oil Company. (See McLaughlin, William I., assignor.)
- Standard Oil Company. (See Paulus, Max G., assignor.)
- Standard Oil Company. (See Payne, Elmer H., assignor.)
- Standard Oil Company. (See Payne, E. H., and Montgomery, assignors.)
- Standard Oil Company. (See Rogers, Francis M., assignor.)
- Standard Oil Company. (See Rogers, F. M., and Shaeffer, assignors.)
- Standard Oil Company. (See Sullivan, Frederick W., jr., assignor.)
- Standard Oil Company. (See Sullivan, F. W., jr., McGill, and Walker, assignors.)
- Standard Oil Company. (See Watts, George W., assignor.)
- Standard Oil Company. (See Wendt, G. L., and Banta, assignors.)
- Standard Oil Company. (See Wilson, R. E., Hunneman, Bahlke, and Rogers, assignors.)
- Standard Oil Company. (See Wilson, R. E., Moore, and Chenicek, assignors.)
- Standard Oil Company. (See Wilson, Robert E., assignor.)
- Standard Oil Company of California. (See Atkinson, Walter V., assignor.)
- Standard Oil Company of California. (See Balmat, Cecil H., assignor.)
- Standard Oil Company of California. (See Beacon, John C., assignor.)
- Standard Oil Company of California. (See Bessonett, Leland S., assignor.)
- Standard Oil Company of California. (See Chappell, M. L., and Ziser, assignors.)
- Standard Oil Company of California. (See Cushman, O. E., and Doell, assignors.)
- Standard Oil Company of California. (See Davis, W. N., Hampton, and Klemgard, assignors.)
- Standard Oil Company of California. (See Dicely, Lee W., assignor.)
- Standard Oil Company of California. (See Douglas, James R., assignor.)
- Standard Oil Company of California. (See Gates, Leroy G., assignor.)
- Standard Oil Company of California. (See Gray, E. D., Scofield, and Defoe, assignors.)
- Standard Oil Company of California. (See Hanna, Richard W., assignor.)
- Standard Oil Company of California. (See Terry, J. B., and Halloran, assignors.)
- Standard Oil Company of Indiana. (See Bahlke, William H., assignor.)
- Standard Oil Company of New York. (See Haupt, Charles H., assignor.)
- Standard Oil Company of New York. (See Paradise, Napoleon F., assignor.)
- Standard Oil Company of New York. (See Robertson, William B., assignor.)
- Standard Oil Development Company. (See Becker, Arman E., assignor.)
- Standard Oil Development Company. (See Becker, A. E., and Boehm, assignors.)
- Standard Oil Development Company. (See Becker, A. E., and Schonberg, assignors.)
- Standard Oil Development Company. (See Buc, Hyym E., assignor.)
- Standard Oil Development Company. (See Buc, H. E., and Clough, assignors.)
- Standard Oil Development Company. (See Clark, E. M., and Howard, assignors.)
- Standard Oil Development Company. (See Cobb, E. B., and Holmes, assignors.)
- Standard Oil Development Company. (See Coleman, Stewart P., assignor.)
- Standard Oil Development Company. (See Harrison, John S., assignor.)
- Standard Oil Development Company. (See Heilenday, Richard A., assignor.)
- Standard Oil Development Company. (See Holmes, August, assignor.)
- Standard Oil Development Company. (See Hoskins, William, assignor.)
- Standard Oil Development Company. (See Howard, Frank A., assignor.)
- Standard Oil Development Company. (See Johnson, John F., assignor.)
- Standard Oil Development Company. (See Kraus, C. A., and Callis, assignors.)
- Standard Oil Development Company. (See Lewis, Warren K., assignor.)
- Standard Oil Development Company. (See Lewis, W. K., and Loomis, assignors.)
- Standard Oil Development Company. (See Link, L., and Amis, assignors.)
- Standard Oil Development Company. (See McKenzie-Martyn, Edward C., assignor.)
- Standard Oil Development Company. (See Moore, W., and Buc, assignors.)



- Standard Oil Development Company. (See Noel, Henry M., assignor.)
- Standard Oil Development Company. (See Ranney, Leo, assignor.)
- Standard Oil Development Company. (See Riddle, R. A., and Carpenter, assignors.)
- Standard Oil Development Company. (See Simpson, James, assignor.)
- Standard Oil Development Company. (See Uren, Lester C., assignor.)
- Standard Oil Development Company. (See Walsh, Louis J., assignor.)
- Standard Oil Development Company. (See Ward, Clarence A., assignor.)
- Standard Oil Development Company. (See Weller, D. R., and Link, assignors.)
- Standard Oil Development Company. (See Wheat, George W., assignor.)
- Standard Oil Development Company. (See Young, Philip L., assignor.)
- Standard Parts Corporation. (See Utley, Albert A., assignor.)
- Standard Patent Process Corporation. (See Conant, Leon B., assignor.)
- Standard Pressed Steel Co. (See Hallowell, Howard T., assignor.)
- Standard Products Corporation. (See Ballou, F. B., and Lake, assignors.)
- Standard Products Corporation. (See Whatmough, William H., assignor.)
- Standard Register Company, The. (See Metzner, Albert W., assignor.)
- Standard Register Company, The. (See Sherman, John Q., assignor.)
- Standard Register Company, The. (See Sherman, J. Q., and Metzner, assignors.)
- Standard Rice Company, The. (See McGehee, Charles T., assignor.)
- Standard Safety Clamp Company. (See Ginsberg, Harry J., assignor.)
- Standard Safety Mfg. Co., The. (See Raymond, Horace H., assignor.)
- Standard Sanitary Manufacturing Company. (See Brain, George, assignor.)
- Standard Sanitary Manufacturing Company. (See Dummett, Hurley S., assignor.)
- Standard Sanitary Manufacturing Company. (See Frankenger, Fred W., assignor.)
- Standard Sanitary Manufacturing Company. (See Frankenger, William, assignor.)
- Standard Sanitary Manufacturing Company. (See Nash, Charles B., assignor.)
- Standard Sanitary Manufacturing Company. (See Selligman, Wallace, assignor.)
- Standard Sanitary Manufacturing Company. (See Smith, Sherman, assignor.)
- Standard Sanitary Manufacturing Company. (See Thompson, William O., assignor.)
- Standard Screw Company. (See Corlett, Webster D., assignor.)
- Standard Show Card Service, Inc. (See Pease, Henry E., assignor.)
- Standard Steel and Bearings, Incorporated. (See Hodge, George O., assignor.)
- Standard Sterilizer Manufacturing Company. (See Ulmer, George G., Jr., assignor.)
- Standard Stoker Company, The. (See Chalker, A. R., and Bailey, assignors.)
- Standard Stoker Company. (See Hunt, Andrew M., assignor.)
- Standard Stoker Company, The. (See Lower, Nathan M., assignor.)
- Standard Stoker Company, The. (See Lower, N. M., and Turner, assignors.)
- Standard Stoker Company Inc., The. (See Lower, Nathan M., assignor.)
- Standard Stoker Company Inc., The. (See Lower, N. M., and Ketchpel, assignors.)
- Standard Stoker Company Inc., The. (See Osborne, Lonnie E., assignor.)
- Standard Stoker Company Inc., The. (See Turner, Edwin A., assignor.)
- Standard Textile Products Company, The. (See Dieck, Henry W., assignor.)
- Standard Tobacco Stemmer Company. (See Lindh, Charles F., assignor.)
- Standard Traffic Marker Company, The. (See Schleicher, Adolf B., assignor.)
- Standard-Trump Brothers Machine Company. (See Houseman, Harold E., assignor.)
- Standard Tube & Manufacturing Company. (See Sunday, James J., assignor.)
- Standard Vacuum Brake Co. (See Slagle, Everett R., assignor.)
- Standard Varnish Works. (See Toch, Maximilian, assignor.)
- Standbrook, Theodore C. (See Feild, B. D., and Standbrook.)
- Standers, Francis D., Johnston, Iowa. Wheeled toy. Des. 73,317; Apr. 16.
- Standerwick, Reginald G., Marblehead, Mass., assignor to General Electric Company. Elastic-fluid turbine. 1,740,379; Dec. 17.
- Standing, Amos W., Houston, Tex. Mechanically-operated display device. 1,706,467; Mar. 26.
- Standish, Edward K., Hartford, Conn., assignor, by mesne assignments, to F. C. Blanchard, Dorchester, Boston, Mass. Lubricating apparatus. 1,709,816; Apr. 16.
- Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel holder. 1,723,310; Aug. 6.
- Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-attaching machine. 1,725,024; Aug. 20.
- Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attaching rubber heels. 1,726,594; Sept. 3.
- Standlee, Harvey R., Tulsa, Okla. Swab-release mechanism. 1,719,028; July 2.
- Standley, Albert H., and G. D. Kilberry, Downingtown, Pa., assignors, by mesne assignments, to Beloit Iron Works, Beloit, Wis. Rails for Fourdrinier paper-making machines. 1,709,754; Apr. 16.
- Stanert, Rowland, assignor to Wm. H. M. Mahen Company, Philadelphia, Pa. Bed-spring brace. 1,720,010; July 9.
- Stanfield Radio Company. (See Feild, B. D., and Standbrook, assignors.)
- Stanford, Arthur L., Libertyville, Ill. Manure spreader. 1,720,801; July 16.
- Stanford, Harwood McC., Atlanta, Ga. Machine. 1,733,833; Oct. 29.
- Stanford, Ralph B. (See Hoos, G. W., and Stanford.)
- Stanforth, Richard, assignor to Art In Buttons, Inc., Rochester, N. Y. Production or manufacture of disks, or blanks for buttons or the like. 1,698,376; Jan. 8.
- Stangland, Ole. (See Farby, A., and Stangland.)
- Stangler, William L. (See Habner, August F., assignor.)
- Stanhope, Leon E., Chicago, Ill. Radiator connection. 1,718,010; June 18.
- Staniewicz, Willy, assignor to Automobilwerke H. Büssing Aktiengesellschaft, Brunswick, Germany. Driving mechanism for motor vehicles. 1,733,032; Oct. 22.
- Stanko, Louis, Denbo, Pa. Automatic railroad switch. 1,701,282; Feb. 5.
- Stanley, Arthur M., Lynn, assignor to Stanley Engineering, Inc., Boston, Mass. Antenna construction. 1,738,459; Dec. 3.
- Stanley, Arthur M., Lynn, and J. E. Sims, Quincy, assignors to Stanley Steel Welded Wheel Corporation, Boston, Mass. Electric welding machine. 1,708,977; Apr. 16.
- Stanley, Edward S. (See Boyles, R. R., and Stanley.)
- Stanley Engineering, Inc. (See Stanley, Arthur M., assignor.)
- Stanley, Frank E., Bothell, Wash. Fire escape. 1,725,677; Aug. 20.
- Stanley, Frederick C., Fairfield, assignor to The Raybestos Company, Bridgeport, Conn. Brake lining and making same. 1,721,675; July 23.
- Stanley, Frederick C., Fairfield, assignor to The Raybestos Company, Bridgeport, Conn. Brake lining and making same. 1,729,138; Sept. 24.
- Stanley, Howard A., Bloomfield, N. J. Cigarette case. 1,705,829; Mar. 19.
- Stanley, Howard A., Bloomfield, N. J. Mirror structure for purses, hand bags, and the like. 1,738,802; Dec. 10.
- Stanley, Irving, assignor, by mesne assignments, to Sealed Containers Corporation, New York, N. Y. Receptacle and making same and means to seal the collapsed and closed end. 1,699,549; Jan. 22.
- Stanley, James F., assignor to Lavelle Foundry Company, Indianapolis, Ind. Molder's flask. 1,707,179; Mar. 26.
- Stanley, Leopold G., Maplewood, N. J., assignor to Stanley & Stanley, Incorporated, New York, N. Y. Toilet or traveling case. 1,722,507; July 30.
- Stanley, Richard E., sr., Pittsburgh, Pa. Headrest. 1,717,272; June 11.
- Stanley, Robert, De Witt, Iowa. Seed huller. 1,735,550; Nov. 12.
- Stanley & Stanley, Incorporated. (See Stanley, Leopold G., assignor.)
- Stanley Steel Welded Wheel Corporation. (See Stanley, A. M., and Sims, assignors.)
- Stanley Works, The. (See Bodmer, Christian, assignor.)
- Stanley Works, The. (See Holloway, John J., assignor.)
- Stanley Works, The. (See Parsons, Stuart W., assignor.)
- Stanley Works, The. (See Raymond, Horace H., assignor.)
- Stanley Works, The. (See Stowell, Austin L., assignor.)
- Stanley Works, The. (See Waller, John A., assignor.)
- Stanley Works, The. (See Waters, Archiebald D., assignor.)
- Stannard, Bruce M., Binghamton, N. Y. Folding chair. Des. 78,796; June 18.
- Stansbury, William H., Aldan, Pa. Mixing materials. 1,724,687; Aug. 13.
- Stansbury, William J., Philadelphia, Pa. Hand-bag protector and supporter. 1,731,547; Oct. 15.
- Stansfeld, Arthur V., New York, N. Y. Dust guard. 1,713,405; May 14.
- Stant, Kyle E., assignor to The Stant Machine Company, Connersville, Ind. Radiator cap. 1,703,253; Feb. 26.
- Stant Machine Company, The. (See Stant, Kyle E., assignor.)
- Stanton, Barclay, Des Moines, Iowa. Flour aerator and separator. 1,718,442; June 25.



- Stanton, C. E. (See McComas, Mark, assignor.)
- Stanton, Eugene J., and L. G. Roberts, Nashua, N. H. Salvage-trimming mechanism. 1,725,220; Aug. 20.
- Stanton, Frank C. (See Odlin, S. I., and Stanton.)
- Stanton, Harry F., Ocean City, N. J. Tee holder for golf-club shafts. 1,709,546; Apr. 16.
- Stanton, Henry L., Wilkensburg, and A. M. Crawford, Pittsburgh, Pa. Electrical connector. 1,704,350; Mar. 5.
- Stanton, Raymond E., St. Paul, Minn. Weather strip. 1,728,453; Sept. 17.
- Stanton, Warren F., Pawtucket, R. I. Gas engine. 1,740,790; Dec. 24.
- Stanwood Equipment Company. (See Stanwood, Frank H., assignor.)
- Stanwood, Frank H., Wilmette, Ill., assignor to Stanwood Equipment Company, Detroit, Mich. Individual-step brush insert. 1,698,005; Jan. 8.
- Stanyo, Wilhelmina, Congress Park, Ill., assignor to Blue Bird Favor Company, Inc. Doll. Des. 77,565; Jan. 22.
- Stanyo, Wilhelmina, Congress Park, Ill., assignor to Blue Bird Favor Company, Inc. Doll. Des. 77,566; Jan. 22.
- Stanyo, Wilhelmina, Congress Park, Ill., assignor to Blue Bird Favor Co., Inc. Lamp shade. Des. 77,657; Feb. 5.
- Stanzione, James C., Newberry, Pa. Casement-window adjuster. 1,727,792; Sept. 10.
- Stapel, Arthur C. (See Heurich, Adam L. and J. G., and Stapel.)
- Staples, Eugene A., Brooklyn, N. Y. Device for facilitating filing or transmission of business papers, etc. 1,714,824; May 28.
- Staples, Horace A., Plainfield, N. J., assignor to The National Electric Products Corporation, New York, N. Y. Manufacturing tubes with enlarged ends. 1,728,016; Sept. 10.
- Staples, Laurance S., Kansas City, Mo. Packaging container. 1,699,765; Jan. 22.
- Star Box & Printing Co. (See Becker, Walter A., assignor.)
- Star Chandelier Co. (See Hoch, George, assignor.)
- Star Chandelier Co. (See Schaffer, Jacob, assignor.)
- Star Drilling Machine Company, The. (See Heinisch, George, assignor.)
- Star Drilling Machine Company. (See Rinehart, Hugh M., assignor.)
- Star Manufacturing Company. (See Burch, Julian R., assignor.)
- Star Mattress Company. (See Lambert, M. K., and Keiver, assignors.)
- Star Rebound Controller Company, The. (See Snyder, Jacob R., assignor.)
- Star-Service Hanger Company. (See Magidson, Frank, assignor.)
- Starck, William A., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper bar. Des. 78,663; May 28.
- Starck, William A., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper. 1,717,896; June 18.
- Starck, William A., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper. 1,717,897; June 18.
- Starck, William A., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile side-bar head. 1,723,664; Aug. 6.
- Starie, George B., Schenectady, N. Y., assignor to General Electric Company. Time-element device and motor-control system employing the same. 1,720,613; July 9.
- Stark Brothers Ribbon Corporation. (See Cotton, Howard W., assignor.)
- Stark, George W., assignor of one-half to J. Dimitroff, Astoria, Oreg. Oil feeding and discharge means for oil burners. 1,738,082; Dec. 3.
- Stark, Gerald R., Sound Beach, Conn., assignor to The Flintkote Company, Boston, Mass. Roofing element. 1,698,032; Jan. 8.
- Stark, Jacob J., Brooklyn, N. Y. Denture. 1,738,460; Dec. 3.
- Stark, John W. (See Morgan, O., and Stark.)
- Stark, Raymond. (See Tyler, W. A., and Stark.)
- Stark, Sander, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projection apparatus. 1,720,011; July 9.
- Stark, Walter, Auburn, Calif. Glare shield for vehicles. 1,698,246; Jan. 8.
- Stark, William H., et al. (See Gates, George E., assignor.)
- Stark, William H., Conover, and J. Sauer, Eagle River, Wis. Kennel construction. 1,715,175; May 28.
- Starke, Emil O., Oak Park, Ill. Fretted string instrument. Des. 80,246; Dec. 31.
- Starke, Hermann, and R. Schroeder, Aachen, Germany. Electrostatic voltage meter. 1,726,866; Sept. 3.
- Starke, Karl, et al. (See Schwabauer, Reinhold, assignor.)
- Starkey, David W. (See Vial F. K., and Starkey.)
- Starkey, Lewis P., Fort Collins, Colo. Self-operating filling station. 1,717,743; June 18.
- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Screw driver. 1,704,062; Mar. 5.
- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Disengageable spring clutch. 1,718,197; June 18.
- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Open-wound spring clutch. 1,725,109; Aug. 20.
- Starkey, William C., assignor to L. G. S. Devices Corporation, Indianapolis, Ind. Starter for automobiles. 1,727,793; Sept. 10.
- Starks, George, Wilsonville, Nebr. Drawbar hitch for tractors. 1,715,682; June 4.
- Starmer, Mary, Newport News, Va. Garment-supporting belt. 1,703,968; Mar. 5.
- Starmer, Mary, Newport News, Va. Safety chain holder. 1,719,029; July 2.
- Starnes, John W., Harrold, Tex. Draft hitch. 1,731,730; Oct. 15.
- Starr, Adolph, Calumet City, Ill. Piston ring. 1,699,454; Jan. 15.
- Starr, Adolph, Calumet City, Ill., assignor to The Super-heater Company, New York, N. Y. Feed-water heater. 1,738,848; Dec. 10.
- Starr, Alfred R., Toronto, Ontario, Canada. Apparatus for selectively controlling the transmission and receiving of wireless messages. 1,724,227; Aug. 13.
- Starr, Charles E., Whittier, Calif. Transmission. 1,724,321; Aug. 13.
- Starr, Charles E., Oakland, Calif., assignor to Perfecto Gear Differential Co., Seattle, Wash. Transmission mechanism. 1,706,551; Mar. 26.
- Starr, Charles E., assignor to Perfecto Gear Differential Co., Oakland, Calif. Transmission gearing. 1,731,548; Oct. 15.
- Starr, Clarence D., Barrington, assignor to Barstow Stove Company, Providence, R. I. Cooking apparatus. 1,731,226; Oct. 8.
- Starr, Everett L., assignor to Fulford Mfg. Co., Providence, R. I. Fastener. 1,723,494; Aug. 6.
- Starr, Frank F., assignor to Delco Light Company, Dayton, Ohio. Electrical apparatus. 1,716,389; June 11.
- Starr, Frank F., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,719,089; July 2.
- Starr, Frank F., assignor to Delco-Light Company, Dayton, Ohio. Engine. 1,732,387; Oct. 22.
- Starr, Frank F., assignor to Delco Light Company, Dayton, Ohio. Carburetor. 1,733,282; Oct. 29.
- Starr, Frank F., assignor to Delco-Light Company, Dayton, Ohio. Electrical generating system. 1,736,865; Nov. 26.
- Starr, Frank F., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,738,542; Dec. 10.
- Starr, Frederick C., and A. J. Waters, assignors to Majeck Steel Cabinet Company, Chicago, Ill. Folding ironing board. 1,699,766; Jan. 22.
- Starr Piano Company, The. (See Freborg, C., and Jelly, assignors.)
- Starr, Raymond F., et al. (See Olson, Samuel, assignor.)
- Starr, Raymond H., North Kansas City, Mo. Multipaned window. 1,728,984; Sept. 24.
- Starr, Robert J. J., Briercrest, Saskatchewan, Canada. Tuning coil. 1,735,020; Nov. 12.
- Starrels, Joel, Chicago, Ill. Manufacture of high-grade soaps from low-grade fats. 1,701,703; Feb. 12.
- Starrett, Henry F., assignor to Starrett Mfg. Co., Chicago, Ill. Insulated wall plate. 1,713,101; May 14.
- Starrett, L. S., Company, The. (See Simpson, Robert J. O., assignor.)
- Starrett Mfg. Co. (See Starrett, Henry F., assignor.)
- Starrett, Wendelin D., Alameda, Calif. Cable wrapper. 1,698,830; Jan. 15.
- Stastney, Ladislav, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing apparatus. 1,706,754; Mar. 26.
- Stastney, Ladislav, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding apparatus. 1,739,265; Dec. 10.
- State Bank of Chicago, trustee. (See Leon, Lewicki J., assignor.)
- State, Will C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Grinding mill for rubber. 1,717,126; June 11.
- Statella, Rose, Newark, N. J. Mirror or similar article. Des. 79,394; Sept. 10.
- States Company, The. (See White, Austin G., assignor.)
- States, Marshall N., Lexington, Ky. Educational apparatus. 1,705,315; Mar. 12.
- Statham, Noel. (See Schachat, Abraham B., assignor.)
- Statham, Noel, Irvington-upon-Hudson, N. Y. Fastener-operating device. Re17,437; Sept. 17.
- Statham, Noel, Irvington-upon-Hudson, N. Y. Fastener. 1,719,490; July 2.
- Stathopoulos, Epaminondas A., New York, N. Y. Banjo. 1,723,818; Aug. 6.
- Stationers Loose Leaf Company. (See Lotter, Adolph G., assignor.)
- Statler, Charles A., Oak Park, Ill. Tile roof. 1,699,213; Jan. 15.
- Staton, Ted, Orlando, Fla. Badge or similar article. Des. 79,311; Aug. 27.
- Stator Refrigeration, Inc. (See Whitney, Lyman F., assignor.)
- Statuto, Rocco, Brooklyn, N. Y. Brush. 1,735,802; Nov. 12.
- Stande, Edwin G., Minneapolis, Minn. Automatic brake control for power-propelled vehicles. 1,738,675; Dec. 10.
- Staudenmeir, Ludwig, and E. B. Isaac, Cleveland Heights, Ohio, assignors to General Electric Company. Apparatus for handling fragile articles. 1,698,321; Jan. 8.



- Staudinger, Hermann, Freiburg, Germany, and T. Reichstein, Zurich, Switzerland, assignors to the firm Internationale Nahrungs- und Genussmittel Aktiengesellschaft, Frowagplatz, Schaffhausen. Producing mercaptans of the furfuryl series. 1,715,795; June 4.
- Staudinger, Hermann, Freiburg, Baden, Germany, and H. A. Bruson, Akron, Ohio. Preparing highly-polymerized products of unsaturated hydrocarbons. 1,720,929; July 16.
- Staufenbiel, Jacob L., St. Louis, Mo. Invalid bed. 1,714,111; May 21.
- Stauffer, Werner, assignor to the firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Hardening high-speed steel. 1,731,549; Oct. 15.
- Staunton, Gray, New Haven, Conn., assignor to Vacuum Seal Company, Inc., New York, N. Y. Outside-seal vacuum jar. 1,700,957; Feb. 5.
- Staunton, Gray, New Haven, Conn., assignor to Vacuum Seal Co., Inc., New York, N. Y. Vacuum-sealed jar. 1,700,958; Feb. 5.
- Staunton, Le Roy W., Jackson Heights, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Sound reproducer. 1,742,016; Dec. 31.
- Staver, Harry B. (See Porter, Thomas H., assignor.)
- Staver, Harry B., Chicago, Ill. Starting box. 1,115,254; May 28.
- Staver, Harry B., Chicago, Ill. Racing-track apparatus. 1,714,328; May 21.
- Stavöstrand, Harald, Oslo, Norway. Relay. 1,728,840; Sept. 17.
- Stawinski, Leo, New York, N. Y. Aero pistol. 1,726,593; Sept. 3.
- Stay, Theron D., Cleveland, Ohio, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa. Reclaiming scrap metals. 1,729,631; Oct. 1.
- Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,704,111; Mar. 5.
- Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,713,564; May 21.
- Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,715,393; June 4.
- Stazak, Michael B., assignor to Kellogg Switchboard & Supply Co., Chicago, Ill. Telephone system. 1,732,034; Oct. 15.
- Stead, George B., Eugene, Oreg. Machine for making tile. 1,739,379; Dec. 10.
- Stead, Lewis H., Los Angeles, Calif. Closure means for discharge openings of plumbing fixtures. 1,704,023; Mar. 5.
- Stead, Philip D., Norfolk, Va. Stabilizing device for aircraft. 1,720,576; July 9.
- Steadwell, Elery, Scotia, N. Y., assignor to General Electric Company. Control apparatus. 1,717,273; June 11.
- Steady Motion Picture Machine Corporation. (See Kosken, Wilho A., assignor.)
- Steam Pressing Iron Company. (See Hoffman, Louis, assignor.)
- Steam Production Corporation. (See Curran, Frank J., assignor.)
- Steam Production Corporation. (See McClellan, William, assignor.)
- Stearman Lloyd, Wichita, Kans. Cabin airplane body or similar article. Des. 78,845; June 25.
- Stearn, Franklin A., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,700,456; Jan. 29.
- Stearn, Franklin A., Scotch Plains, N. J., and E. H. Clark, Richmond Hill, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,722,064; July 23.
- Stearn, Noel H. (See Hotchkiss, W. O., Aldrich, Stearn, and Foerst.)
- Stearnes Company. (See Barkby, Harry assignor.)
- Stearns, Charles F., Oceanside, assignor to The Western Union Telegraph Company, New York, N. Y. Remote control of selector apparatus. 1,735,838; Nov. 12.
- Stearns & Foster Company, The. (See Nash, Benjamin S., assignor.)
- Stearns, Frank B., Cleveland, Ohio. Self-igniting engine. 1,722,772; July 30.
- Stearns, Harry C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for assembling articles. 1,713,786; May 21.
- Stearns, Harry C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for assembling articles. 1,713,788; May 21.
- Stearns, Harry C., Oak Park, assignor of one-third to C. A. Whitsett, Chicago, and one-third to H. W. Larson, Downers Grove, Ill. Gasoline gauge for automobiles. 1,730,173; Oct. 1.
- Stearns, Harry C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for arranging articles. 1,737,433; Nov. 26.
- Stearns, Jason C., Worcester, Mass. Reflector. 1,711,705; May 7.
- Stearns, Jason C., Worcester, Mass. Double-throw switch. 1,718,717; June 25.
- Stearns, Merle M., Ventura, Calif. Flash light. 1,699,927; Jan. 22.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator deck. 1,706,552; Mar. 26.
- Stebbins, Albert H., Los Angeles, Calif. Crushing mill. 1,708,195; Apr. 9.
- Stebbins, Albert H., Los Angeles, Calif. Concentrator. 1,712,589; May 14.
- Stebbins, Albert H., Los Angeles, Calif. Operating means. 1,720,299; July 9.
- Stebbins, Albert H., Los Angeles, Calif. Classifier. 1,720,861; July 16.
- Stebbins, Albert H., Los Angeles, Calif. Table concentrator. 1,720,862; July 16.
- Stebbins, Albert H., Los Angeles, Calif. Combined fan and classifier. 1,720,863; July 16.
- Stebbins, Dwight J., Morris, Minn. Internal-combustion engine. 1,726,047; Aug. 27.
- Stebbins Engineering and Manufacturing Company. (See Shortt, Howard G., assignor.)
- Stebbins, Livingston, administrator. (See Preble, James J.)
- Stebler, William J., assignor of one-fourth to W. J. Curley, one-eighth to R. Rogers, one-eighth to M. A. Herald, and one-fourth to D. J. McLaughlin, Pittsburgh, Pa. Brake-beam support. 1,730,793; Oct. 8.
- Stebler, William J., assignor of one-eighth to M. A. Herald, one-eighth to R. Rogers, one-fourth to D. J. McLaughlin, and one-fourth to W. J. Curley, Pittsburgh, Pa. Safety-guard device. 1,735,659; Nov. 12.
- Stecher, John J., et al. (See Miller, Harry, assignor.)
- Steck, Leo V. (See Pike, R. D., Steck, and Cummings.)
- Steckler, Maurice. (See Steckler, Samuel, and M.)
- Steckler, Moe, Bronx, N. Y. Foldable bag. 1,719,455; July 2.
- Steckler, Samuel, White Plains, and M. Steckler, Pleasantville, N. Y. Gutter hanger. 1,735,622; Nov. 12.
- Stedefeld, Curt. (See Kruckenberg, F., and Stedefeld.)
- Stedefeld, Curt, Heidelberg, Germany. Welding rail joints. 1,704,410; Mar. 5.
- Stedefeld, Curt, Heidelberg, Germany. Vehicle carrying rail, in particular for high-speed suspended-vehicle railways. 1,710,437; Apr. 23.
- Stedefeld, Curt, Heidelberg, Germany. Lateral springing for vehicle running gears. 1,725,310; Aug. 20.
- Stedelin, John W., and G. Klein, Centralia, Ill. Mine-car puller. 1,727,678; Sept. 10.
- Stedtfeld, Christian H., Brainerd, Minn. Windshield cleaner. Re17,535; Dec. 24.
- Stedwell, George W., Brooklyn, N. Y. Liquid dispensing. 1,713,102; May 14.
- Stedwell, George W., Brooklyn, N. Y., assignor to Liquid Dispensing Systems, Inc. Liquid-delivery system. Re17,294; May 14.
- Stedwell, George W., Brooklyn, assignor of one-half to F. Sheridan, New York, N. Y. Dispensing of liquids. 1,717,274; June 11.
- Steed, Paul B., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Generator-control system. 1,710,748; Apr. 30.
- Steedman, Edwin H., St. Louis, assignor to Curtis Manufacturing Company, Wellston, Mo. Valve structure for compressors. 1,708,158; Apr. 9.
- Steedman, Edwin H., St. Louis, assignor to Curtis Manufacturing Company, Wellston, Mo. Valve structure for compressors. 1,738,403; Dec. 3.
- Steel Drum Accessories Corporation. (See Ogden, Albert U., assignor.)
- Steel Heddle Manufacturing Company. (See Kaufman, John J., assignor.)
- Steel Products Corporation of California, The, et al. (See Johnson, William A., assignor.)
- Steel and Tube, Inc. (See Behner, Harold, assignor.)
- Steel and Tubes, Inc. (See Harvey, Harry E., assignor.)
- Steel and Tubes, Inc. (See Holmes, Earl K., assignor.)
- Steel and Tubes, Inc. (See Lawson, John F., assignor.)
- Steel and Tubes, Inc. (See Sessions, Frank L., assignor.)
- Steel and Tubes, Inc. (See Sussman, Maxwell H., assignor.)
- Steel and Tubes, Inc. (See Vincent, Frank P., assignor.)
- Steel Wheel Corporation. (See Crissman, Ira S., assignor.)
- Steel Wheel Corporation. (See Forsyth, George H., assignor.)
- Steel Wheel Corporation. (See Nelson, Emil A., assignor.)
- Steel Wheel Corporation. (See Putnam, Alden L., assignor.)
- Steel Wheel Corporation. (See Williams, William E., assignor.)
- Steel Wheel Corporation. (See Winchester, Frank U., assignor.)
- Steel, William S., and P. C. Fry, Oakland, Calif. Display stand. 1,722,021; July 23.
- Steel Wool Products Corporation, The. (See Schonitzer, Rudolph I., assignor.)
- Steeldraulic Brake Corporation. (See Germonprez, John A., assignor.)
- Steeldraulic Brake Corporation. (See Sneed, John, assignor.)
- Steele, Charles W., assignor to The Miller Rubber Company, Akron, Ohio. Fastener-cementing device. 1,720,385; July 9.
- Steele, Claude A., Cheyenne, Wyo. Cotton-planter attachment. 1,736,380; Nov. 19.
- Steele, Edwin G. (See Sutton, H. M., and Steele.)
- Steele, Gilmour J., Toronto, Ontario, Canada. Apparatus for automatically transferring bricks from press to rack and from rack to kiln. 1,699,637; Jan. 22.



- Steele, Harry A., assignor to The Prosperity Company Inc., Syracuse, N. Y. Spring pad for pressing machines. 1,706,755; Mar. 26.
- Steele, James R. (See Moore, G. L., and Steele.)
- Steele, John G., Latrobe, Pa. Locking lever. 1,706,331; Mar. 19.
- Steele & Johnson Mfg. Co. (See Ashley, Enoch J., assignor.)
- Steele, Joseph M., Stow, assignor to J. R. Gammeter, Akron, Ohio. Cushioning connection for vehicle construction. 1,693,006; Jan. 8.
- Steele, Maurice G., Hartford, Conn. Folding collapsible boat. 1,715,312; May 28.
- Steele, Maurice G., Farmington, assignor to The Hart & Hutchinson Company, New Britain, Conn. Humidifier. 1,719,569; July 2.
- Steele, Russell, Fort Wayne, Ind., assignor to General Electric Company. Tensioning device. 1,733,834; Oct. 29.
- Steele, Walter L. (See Sutton, H. M., and Steele.)
- Steele, William H. (See Lower, N. M., Steele, and Morris.)
- Steele, William M., River Forest, and E. G. Allen, Oak Park, assignor to John F. Jelke Company, Chicago, Ill. Container for coloring material. 1,735,219; Nov. 12.
- Steele, William N., et al. (See Grosskopf, William, assignor.)
- Steellastic Company. (See Frost, Warren H., assignor.)
- Steelsmith, Frank R., trustee. (See Stocking, Bert A., assignor.)
- Steelsmith, Frank R., Des Moines, Iowa. Washing-machine agitator. 1,720,975; July 16.
- Stelly, Dale G., Arlington, assignor to W. F. Schrafft & Sons Corporation, Boston, Mass. Aerating apparatus. 1,702,526; Feb. 19.
- Stelly, Dale G., Arlington, assignor to W. F. Schrafft & Sons Corporation, Boston, Mass. Hand dipping table. 1,719,570; July 2.
- Steen, Andrew G., Brooklyn, N. Y. Display device. 1,740,842; Dec. 24.
- Steen, Arthur B., Houston, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Apparatus for treating oil. 1,740,275; Dec. 17.
- Steen, Charles W., Norwood, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power-transmitting mechanism. 1,740,046; Dec. 17.
- Steenrod, George E., Freeport, Ill., assignor to Woodmanse Manufacturing Company, Windmill. 1,701,512; Feb. 12.
- Steenrod, George E., Freeport, Ill., assignor to Woodmanse Manufacturing Company, Windmill. 1,702,281; Feb. 19.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Refrigerating machine. 1,701,843; Feb. 5.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Wire-feeding mechanism for welding machines. 1,733,835; Oct. 29.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Wire-feeding mechanism for welding machines. 1,733,836; Oct. 29.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Refrigerating machine. 1,736,635; Nov. 19.
- Steerup, Godfrey, assignor to Electrical Engineers Equipment Company, Chicago, Ill. Lightning arrester. 1,711,816; May 7.
- Steese, Marcus C., Hamburg, N. Y. Burning fuel in regenerative furnaces. 1,736,675; Nov. 19.
- Steese, Marcus C., Hamburg, N. Y. Furnace. 1,737,392; Nov. 26.
- Stefan, John, Detroit, Mich. Lunch kit. 1,739,425; Dec. 10.
- Stefani, Angelo, deceased, Starkville, Colo.; R. Stefani, administratrix. Fuel and water supply car. 1,707,821; Apr. 2.
- Stefani, Rosie, administratrix. (See Stefani, Angelo.)
- Steffe, Wilhelm, assignor to Freier Grunder Eisen- und Metallwerke Gesellschaft mit beschränkter Haftung, Neunkirchen, Germany. Melting furnace. 1,717,813; June 18.
- Steffen, Alfred, jr., Sheboygan, Wis. Door construction. 1,704,411; Mar. 5.
- Steffins, Walter L., Wyoming, Ohio. Heat-insulating and fireproof material. 1,721,096; July 16.
- Stegeman, Albert V., jr., Fort Thomas, assignor to Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 77,439; Jan. 8.
- Stegeman, Albert V., jr., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase bezel. Des. 78,492; May 7.
- Stegeman, Albert V., jr., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 79,675; Oct. 22.
- Stegemeyer, Lou A. (See Fischer, C., jr., and Stegemeyer.)
- Stehl, Edwin S. (See Dundin, W. L., and Stehl.)
- Stehle, Robert, Feuerbach, Germany. Gramophone drive. 1,735,064; Nov. 12.
- Stehlick, Rudolph F. (See Ray, A. J., and Stehlik.)
- Stehlik, Rudolph F. (See Bellamy, J. I., and Stehlik.)
- Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Rotary connector. 1,716,986; June 11.
- Stehlik, Rudolph F., assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,720,012; July 9.
- Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,720,930; July 16.
- Stehlik, Rudolph F., assignor to Reserve Holding Company, Chicago, Ill. Automatic telephone system. 1,723,087; Aug. 6.
- Stehlik, Rudolph F., assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,727,137; Sept. 3.
- Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,729,803; Oct. 1.
- Stehlik, Rudolph F., assignor to Automatic Electric Inc., Chicago, Ill. Multifunction telephone system. 1,729,857; Oct. 1.
- Stehlik, Rudolph F., assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,732,185; Oct. 15.
- Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Zone metering system. 1,738,931; Dec. 10.
- Steichen, Marie C., New York, N. Y. Hair-waving apparatus. 1,702,881; Feb. 19.
- Steiff, Margarete, Inc. (See Steiff, Paul, assignor.)
- Steiff, Paul, Giengen-on-the-Brenz, Germany, assignor to Margarete Steiff, Inc., New York, N. Y. Stuffed toy animal or similar article of manufacture. Des. 78,229; Apr. 9.
- Steiff, Paul, Giengen Brenz, Germany, assignor to Margarete Steiff, Inc., New York, N. Y. Stuffed toy animal or similar article of manufacture. Des. 78,593; May 21.
- Steiff, Paul, Giengen-on-the-Brenz, Germany, assignor to Margarete Steiff, Inc., New York, N. Y. Stuffed toy animal or similar article of manufacture. Des. 78,983; July 16.
- Steiger, Benjamin F., Newark, W. A. Heppner, Red Bank, N. J., and F. A. Holt, New York, N. Y., assignors to National Carbon Company, Inc. Protective means for current-rectifying systems. 1,699,455; Jan. 15.
- Steiger, George W., Jamaica, N. Y. Yarn spool. 1,706,826; Mar. 26.
- Steiger, George W., Jamaica, N. Y. Process of and apparatus for effecting dyeing, bleaching, and similar operations upon textile fabrics. 1,706,827; Mar. 26.
- Steiger, Norbert, Frankfort-on-the-Main, E. Hoffa and H. Heyna, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Orthocarboxyamidoarylhthioglycolic acid and making same. 1,712,365; May 7.
- Steiger, Norbert, Frankfort-on-the-Main, E. Hoffa, and H. Heyna, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Orthocarboxyamidothioglycolic acid. 1,712,366; May 7.
- Steiger, Norbert, Frankfort-on-the-Main, and E. Hoffa and H. Heyna, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Orthocarboxyamidothioglycolic acid. 1,712,367; May 7.
- Steigman, Israel N., Brooklyn, N. Y. Motion-picture machine. 1,707,498; Apr. 2.
- Steigner, Henry, San Francisco, Calif. Flying machine. 1,733,033; Oct. 22.
- Steil, Edmund, Berlin, Germany, assignor to American Gas-accumulator Company, Elizabeth, N. J. Porous mass and making same. 1,726,323; Aug. 27.
- Stein, Berthold. (See Berliner, R., Stein, and Trautner.)
- Stein, Berthold. (See Schirmacher, K., Stein, and Stenger.)
- Stein, Berthold. (See Trautner, W., Berliner, and Stein.)
- Stein, Berthold, W. Trautner, and R. Berliner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Making benzanthrone compounds. 1,713,565; May 21.
- Stein, Berthold, W. Trautner, and R. Berliner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Green vat dyestuffs and making the same. 1,713,680; May 21.
- Stein, Bruno, and O. Münzner, Obergruna, Germany. Catching device for the cages of hoists, lifts, and the like. 1,707,099; Mar. 26.
- Stein, Charles M., assignor to Société Anonyme des Appareils de Manutention & Fours Stein, Paris, France. Heat regenerator with large surface. 1,703,793; Feb. 26.
- Stein, Elias, Boston, Mass. Rotary cutter head. 1,722,022; July 23.
- Stein, Emanuel D. (See Salinger, Morris, assignor.)
- Stein, Ernst R., and K. Volland, Kassel, Germany, assignors to The Superheater Company, New York, N. Y. Superheater. 1,738,849; Dec. 10.
- Stein, Friedrich, assignor to J. M. Voith, Heidenheim-on-the-Brenz, Germany. Device for copying on machine tools. 1,739,268; Dec. 10.
- Stein, Harry B., Chicago, Ill. Sash-fastening means. 1,715,957; June 4.
- Stein, Leo, et al. (See Gump, William, assignor.)
- Stein, Leon, San Francisco, Calif. Airplane. 1,724,859; Aug. 13.
- Stein, Max, Chicago, Ill. Musical instrument. 1,723,088; Aug. 6.
- Stein, Michael, assignor, by mesne assignments, to Chicago Eye Shield Company, Chicago, Ill. Welder's hood. 1,730,390; Oct. 8.
- Stein, Milton F., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Apparatus for controlling the flow of fluids. 1,724,977; Aug. 20.



- Stein, Norris, and A. S. Levin, Philadelphia, Pa. Leg construction for water coolers. 1,741,961; Dec. 31.
- Stein, Otto, Oschersleben/Bode, Germany. Painter's implement or pattern. 1,725,941; Aug. 27.
- Stein, Rudolf, Frankfurt-on-the-Main, assignor to Heinrich Warning, Potsdam, Germany. Support. 1,697,546; Jan. 1.
- Stein, Theodor, Berlin-Friedenau, Germany, assignor to General Electric Company. Automatic regulator for furnaces and the like. 1,725,678; Aug. 20.
- Stein, Theodor, Berlin-Friedenau, Germany, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Elastic-fluid-turbine installation. 1,728,841; Sept. 17.
- Stein, Theodor, Friedenau, Germany, assignor to General Electric Company. Power plant. 1,723,089; Aug. 6.
- Stein, Theodor, Friedenau, Germany, assignor to General Electric Company. Throttling arrangement for conduits. 1,725,679; Aug. 20.
- Stein, William D. (See Block, David J., assignor.)
- Steinau Company, The. (See Moses, Harry M., assignor.)
- Steinberg, Carl, New York, N. Y. Straw hat. 1,698,176; Jan. 8.
- Steinberger, Harry J., and H. A. Miller, Clovis, N. Mex. Combination bailer, dump, and pump. 1,733,837; Oct. 29.
- Steinberger, Louis, Brooklyn, N. Y. System of line insulation and insulators therefor. 1,702,235; Feb. 12.
- Steinberger, Louis, Brooklyn, N. Y. Sound-amplifying transmitter. 1,726,932; Sept. 3.
- Steinbrugge, Hermann, New York, N. Y., assignor to C. T. Weymann, Paris, France. Road-motor-vehicle body and making same. 1,711,704; May 7.
- Steinem, Chester, Cincinnati, Ohio. Hydraulic shock absorber. 1,701,828; Feb. 12.
- Steiner, Amos, assignor to Landis Tool Company, Waynesboro, Pa. Hydraulic selective internal grinder. 1,703,794; Feb. 26.
- Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Work rest for grinding machines. 1,712,314; May 7.
- Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Hydraulic back rest for grinding machines. 1,713,722; May 21.
- Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet and method of loading same. 1,721,925; July 23.
- Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Feed-control device for towel cabinets. 1,724,228; Aug. 13.
- Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,724,229; Aug. 13.
- Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,721,926; July 23.
- Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,721,927; July 23.
- Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Neck loop for aprons. 1,733,632; Oct. 29.
- Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,735,515; Nov. 12.
- Steiner, George A., Salt Lake City, Utah, and G. Olson, Minneapolis, Minn., assignors to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. Re17,352; July 2.
- Steiner, George A., Salt Lake City, Utah. Towel cabinet. 1,721,928; July 23.
- Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Attachment for towel cabinets. 1,697,579; Jan. 1.
- Steiner, George A., and J. Evans, assignors to Steiner Sales Company, Salt Lake City, Utah. Counting machine. 1,720,495; July 9.
- Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,735,514; Nov. 12.
- Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,735,516; Nov. 12.
- Steiner, George A., and J. Evans, assignors to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,736,140; Nov. 19.
- Steiner, Hermann, Neustadt, near Coburg, Germany. Eyes for toy figures. 1,710,791; Apr. 30.
- Steiner, Joseph C., St. Louis, Mo. Portable juice extractor. 1,725,221; Aug. 20.
- Steiner, Joseph C., assignor, by mesne assignments, to Hussmann-Ligonier Company, St. Louis, Mo. Slicing machine. 1,742,105; Dec. 31.
- Steiner, Malcolm, New York, N. Y. Tray. 1,733,838; Oct. 29.
- Steiner, Max S. (See Stewart, Andrew B., assignor.)
- Steiner, Otto. (See Abild, A., Jipp, Steiner, and Tüczek.)
- Steiner Sales Company. (See Blitz, Ralph S., assignor.)
- Steiner Sales Company. (See Hails, Edward T., assignor.)
- Steiner Sales Company. (See Olson, Gottfried, assignor.)
- Steiner Sales Company. (See Overholt, Albert L., assignor.)
- Steiner Sales Company. (See Steiner, Frank G., assignor.)
- Steiner Sales Company. (See Steiner, George A., assignor.)
- Steiner Sales Company. (See Steiner, G. A., and Evans, assignors.)
- Steiner Sales Company. (See Steiner, G. A., and Olson, assignors.)
- Steiner, Ulrich. (See Schmidt, J. J., and Steiner.)
- Steingold, Abraham, Brooklyn, N. Y. Hat. 1,725,425; Aug. 20.
- Steingrubber, George, Atlanta, Ga. Brake-testing device. 1,723,819; Aug. 6.
- Steinkamp, Joseph G., Cincinnati, Ohio. Multicoin-control locking mechanism. 1,734,748; Nov. 5.
- Steinke, Leroy O., Spokane, Wash. Shirt button. 1,722,597; July 30.
- Steinle, Adolf, assignor to the firm Carl Zeiss, Jena, Germany. Measuring device. 1,703,120; Feb. 26.
- Steinle, Adolf, assignor to Carl Zeiss, Jena, Germany. Feeler gauge with handle. 1,726,129; Aug. 27.
- Steinmann, Walter, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Drawing metal. 1,717,419; June 18.
- Steinmayer, Alwin G., assignor to Line Material Company, South Milwaukee, Wis. Cap for insulators. 1,715,478; June 4.
- Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Electric switch. 1,716,987; June 11.
- Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Electrical switch. 1,731,065; Oct. 8.
- Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Street-lighting fixture. 1,734,056; Nov. 5.
- Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Bus-bar structure. 1,734,537; Nov. 5.
- Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Fuse. 1,737,205; Nov. 26.
- Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Mechanical rectifier. 1,698,283; Jan. 8.
- Steinmetz, Charles R., Oklahoma City, and H. F. McKinney, Okmulgee, assignors to Steinmetz Electric Lawn Mower Company, Oklahoma City, Okla. Lawn mower. 1,725,487; Aug. 20.
- Steinmetz Electric Lawn Mower Company. (See Steinmetz, C. R., and McKinney, assignors.)
- Steinmetz, Harry G., and H. P. Eck, Port Chester, N. Y. Starting mechanism. 1,737,868; Dec. 3.
- Steinmetz, Theodore A., St. Cloud, Minn. Valve. 1,703,411; Feb. 26.
- Steinmeyer, John W., East Orange, and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Car-tank heater. 1,706,084; Mar. 19.
- Steinwand, Otto J., assignor to Sussman, Wormser & Company, San Francisco, Calif. Fruit-stemming apparatus. 1,700,861; Feb. 5.
- Steinwand, Otto J., Selma, assignor to The Rubette Co., San Francisco, Calif. Peeling fruits. 1,721,929; July 23.
- Steirly, Albert R., Houston, Tex. Bushing puller. 1,705,789; Mar. 19.
- Stejskal, Karl, Brunn, Czechoslovakia. Electric street-car motor with overhead conductor and roller gear. 1,733,283; Oct. 29.
- Stell, Alfred and J. Keigley, England. Doffing mechanism for flyer spinning, doubling, twisting, and like machines. 1,714,529; May 28.
- Stell, John. (See Stell, Alfred and J.)
- Stelljes, Fred D., assignor to The T. & L. Co., Inc., Newark, N. J. Bag lock. 1,702,621; Feb. 19.
- Stelzenmuller, Fred R., Delawanna, N. J. Boring tool. 1,700,654; Jan. 29.
- Stelzer, Edwin H., assignor of one-half to M. F. Napier, St. Louis, Mo. Trench cover. 1,732,288; Oct. 22.
- Stelzer, William, Chicago, Ill. Aircraft. 1,704,112; Mar. 5.
- Stelzer, William, Chicago, Ill. Elastically-mounted self-adjusting air-foil. 1,725,222; Aug. 20.
- Stelzer, William, Chicago, Ill. Flying machine. 1,739,630; Dec. 17.
- Stelzner, Hermann, assignor to firm Drägerwerk, Heintz & Bernh. Dräger, Lubeck, Germany. Connecting ring for the belt of breathing appliances. 1,713,358; May 14.
- Stemmelier, Ludwig. (See Kohl, M., and Stemmelier.)
- Stempel, Harry W., Dayton, Ohio. Electrically-operated releasing and setting mechanism for target traps. 1,716,935; June 11.
- Stempel, Laszlo M. (See Schoonmaker, J. M., jr., and Stempel.)
- Stenbol, Carl, Sault Ste. Marie, Ontario, Canada. Road construction. 1,707,372; Apr. 2.
- Stenbol, Carl, Sault Ste. Marie, Ontario, Canada. Wind gauge or anemometer. 1,708,036; Apr. 9.
- Stendebach, Friedrich, Augsburg, Germany. Projectile. 1,709,414; Apr. 16.
- Stender, Waldemar. (See Gleichmann, H., and Stender.)
- Stender, Waldemar, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin. Feeding of steam-boller plants. 1,711,659; May 7.



- Stender, Waldemar, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Utilizing the heat of the generator of superpressure steam generators. 1,728,375; Sept. 17.
- Stengel, Olive E., Rockville, Conn. Sanitary sealing device for milk bottles. 1,732,952; Oct. 22.
- Stenger, Konrad. (See Schirmacher, K., Stein, and Stenger.)
- Stenhouse, David, Washington, Pa., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Transferring apparatus for continuously-rotating glass-forming machines. 1,712,907; May 14.
- Stenhouse, David, Washington, Pa., assignor to Hazel-Atlas Glass Co., Wheeling, W. Va. Glass-delivering apparatus. 1,735,551; Nov. 12.
- Stenman, Per L., Stockholm, Sweden. Machine for cutting threads upon screw blanks. 1,737,739; Dec. 3.
- Stenshoel Nels P., Crookston, Minn. Combined head and jaw rest. 1,729,525; Sept. 24.
- Stenvig, Carl A., Bellingham, Wash. Apparatus for drying fields. 1,736,227; Nov. 19.
- Stenz, Bernard F., assignor to Simplex Sampling Association, New York, N. Y. Sample card. 1,741,080; Dec. 24.
- Stenzl, Hans, Basel, Switzerland. Alkyl and aralkyl resorcinol carboxylic acids. 1,697,332; Jan. 1.
- Stepanian, Stephen, Columbus, Ohio. Sample-display holder. 1,730,439; Oct. 8.
- Stephan, Emil H., assignor to W. H. Gast, Bridgman, Mich. Oil-water and air separator. 1,714,825; May 28.
- Stephan, Joseph, Chico, Calif. Concentrator. 1,704,265; Mar. 5.
- Stéphani, Sophie, Zurich, Switzerland. Massage apparatus. 1,725,488; Aug. 20.
- Stephansen, Erik. (See Amundsen, I., and Stephansen.)
- Stephens-Adamson Mfg. Co. (See Kendall, Myron A., assignor.)
- Stephens, Albert E., assignor of one-half to B. Calkins, Milwaukee, Wis. Fluid braking system. 1,730,953; Oct. 8.
- Stephens, Benjamin F. (See Dean, C. C., and Stephens.)
- Stephens, Catherine B., et al., trustees. (See Brown, Lloyd, assignor.)
- Stephens Company. (See Stephens, Thomas J., assignor.)
- Stephenson, Edward B., Schenectady, N. Y. Electro-mechanical recording mechanism. 1,724,322; Aug. 13.
- Stephens, Francis G. C., L. J. Anderson, and W. A. Cash, assignors, to National Metal and Chemical Bank Limited, London, England. Production of titanium-containing pigments. 1,714,408; May 21.
- Stephens, Frank M., and A. P. Danaher, Long Beach, Calif. Oil saver. 1,704,152; Mar. 5.
- Stephens, G. A., et al., trustees. (See Brown, Lloyd, assignor.)
- Stephens, George B., et al., trustees. (See Brown, Lloyd, assignor.)
- Stephens, Harry S., Detroit, Mich. Sounding figure toy. 1,701,734; Feb. 12.
- Stephens, Herman A., Sterling, Colo. Shock absorber and bumper for the tongues and doubletree equalizers of cultivators. 1,737,064; Nov. 26.
- Stephens, Howard H., Topeka, Kans. Tube-rolling machine. 1,738,125; Dec. 3.
- Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,706,193; Mar. 19.
- Stephens, Lewis E., et al. (See Power, Edward D., assignor.)
- Stephens, Percy W., assignor to Cast-Rite Co., Chicago, Ill. Cooking rack. 1,716,868; June 11.
- Stephens, Robert G., Los Angeles, Calif. Electric-lighting unit. 1,737,030; Nov. 26.
- Stephens, Samuel, and Wickersham Quoin Company. (See Stephens, William, assignor.)
- Stephens, Thomas J., assignor to Stephens Company (Not Incorporated), Chicago, Ill. Dispensing container for liquids. 1,729,903; Oct. 1.
- Stephens, Thomas M., Michigan City, Ind., assignor to Sullivan Machinery Company. Forging machine. 1,707,284; Apr. 2.
- Stephens, Thomas M., Michigan City, Ind., assignor to Sullivan Machinery Company. Furnace. 1,707,329; Apr. 2.
- Stephens, William A., assignor to The British Sure Seal Company Limited, London, England. Method of and apparatus for manufacturing closures for containers. 1,725,601; Aug. 20.
- Stephens, William A., assignor to The British Sure Seal Company Limited, London, England. Cap-feeding mechanism for closures of bottles, containers, or the like. 1,725,602; Aug. 20.
- Stephens, William A., Washington, D. C. Solutions of iodine and making the same. 1,719,523; July 2.
- Stephens, William, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. Des. 77,440; Jan. 8.
- Stephens, William, Somerville, assignor to Samuel Stephens and Wickersham Quoin Company, Boston, Mass. Type cabinet or the like. 1,702,138; Feb. 12.
- Stephenson, D. K. (See Keith, Charles W., assignor.)
- Stephenson, Frank B., Denver, Colo., assignor to L. L. Evans, Cleveland, Ohio. Plate charger. 1,698,895; Jan. 15.
- Stephenson, George M., et al., trustees. (See Scheid, Henry J., assignor.)
- Stephenson, Henry L., Buffalo, N. Y. Valve operation system. 1,711,660; May 7.
- Stephenson, Herman H., Wichita, Kans. Sign. 1,708,336; Apr. 9.
- Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Relay. 1,699,125; Jan. 15.
- Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Electric illumination of sewing machines or the like. 1,701,344; Feb. 5.
- Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Sewing machine. 1,723,897; Aug. 6.
- Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Sewing-machine take-up. 1,723,898; Aug. 6.
- Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Sewing machine. 1,740,380; Dec. 17.
- Stephenson, James E., assignor to General Railway Signal Company, Rochester, N. Y. Switch-locking device for railroads. 1,710,663; Apr. 23.
- Stephenson, James E., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system for railroads. 1,733,980; Oct. 29.
- Stephenson, John, Kensington, New South Wales, Australia. Electrical locking and releasing switch. 1,704,582; Mar. 5.
- Stephenson, John R. (See Armstrong, O. C., and Stephenson.)
- Stephenson, Leigh J., Oakmont, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. 1,700,602; Jan. 29.
- Stephenson, Richard O., Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Rotary cutter. 1,720,769; July 16.
- Sterba, Ernest J., assignor to Western Electric Company, Incorporated, New York, N. Y. System of space discharge devices. 1,719,456; July 2.
- Sterbenz, Albert, and J. Amsler, Los Angeles, Calif. Flush valve. 1,733,633; Oct. 29.
- Stepich, Rudolph J., Stockton, Calif. Washing machine for vegetables, fruit, and the like. 1,716,712; June 11.
- Steps, Robert A., Los Angeles, Calif. Centrifugal control. 1,713,057; May 14.
- Steps, Robert A., Los Angeles, Calif. Fully-centralized mixer-type centrifugal control. 1,713,058; May 14.
- Steps, Robert A., Los Angeles, Calif. Brake for centrifugals. 1,713,502; May 14.
- Sterick, Harrison D., Pittsburgh, Pa. Combination camera and purse. 1,701,315; Feb. 5.
- Sterling, Claude H., assignor to General Motors Corporation, Detroit, Mich. Overgear transmission. 1,727,794; Sept. 10.
- Sterling, Claude H., assignor to General Motors Corporation, Detroit, Mich. Overgear transmission. 1,727,795; Sept. 10.
- Sterling, Claude H., assignor to General Motors Research Corporation, Detroit, Mich. Overspeed transmission. 1,731,830; Oct. 15.
- Sterling Corporation, The. (See Flammang, J., and Bowser, assignors.)
- Sterling, Edward R. (See Sommer, A., and Hood, assignors.)
- Sterling, George H., Minneapolis, Minn. Lock. 1,731,508; Oct. 15.
- Sterling Grinding Wheel Company, The. (See Ballash, Joseph L., assignor.)
- Sterling, Irene M., Oakland, Calif. Sterile container. 1,728,454; Sept. 17.
- Sterling, John L., Bellerose, N. Y. Radiotable. Des. 78,989; July 16.
- Sterling, Paul, Wilkes-Barre, Pa. Journal-lubricating means. 1,737,393; Nov. 26.
- Sterling Products Company. (See Wilkinson, A. W., and Riegel, assignors.)
- Sterling Range and Furnace Corporation. (See Soules, Thomas A., assignor.)
- Sterling Range and Furnace Corporation. (See Reck, Maurus C., assignor.)
- Sterling Spring Company. (See Beaumont, G. H., and Montelth, assignors.)
- Sterling Varnish Company, The. (See Barord, Paul J., assignor.)
- Stern, Bernard G., Shaker Heights, Ohio. Combination faucet. 1,699,767; Jan. 22.
- Stern, Charles. (See Braden, R. W., and Stern.)
- Stern, Charles, Jersey City, assignor, by mesne assignments, to Ardcro Manufacturing Company, Hoboken, N. J. Safety appliance for train lines. 1,700,385; Jan. 29.
- Stern, Charles, Jersey City, assignor, by mesne assignments, to Ardcro Manufacturing Company, Hoboken, N. J. Automatic safety control for train-line air brakes. 1,700,386; Jan. 29.
- Stern, Charles, Jersey City, N. J., assignor, by mesne assignments, to Ardcro Manufacturing Company, Hoboken, N. J. Lubricating device. 1,724,434; Aug. 13.
- Stern, David F., et al. (See Brill, Jules J., assignor.)
- Stern, Ferdinand, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Oil-circuit breaker. 1,709,922; Apr. 23.
- Stern, Frederick A., New York, N. Y. Drinking cup. Des. 78,171; Apr. 2.
- Stern, Georg, Oberschoneweide, near Berlin, Germany, assignor to General Electric Company. Electric switch. 1,708,744; Apr. 9.



- Stern, Harry A., New York, N. Y. Ash tray. 1,735,803; Nov. 12.
- Stern, Isidore, New Rochelle, N. Y. Denture attachment. 1,719,314; July 2.
- Stern, Isidore, New Rochelle, N. Y. Denture attachment. 1,730,542; Oct. 8.
- Stern, Joham and Grossman, Inc. (See Joham, Charles W., assignor.)
- Stern, Louis, Company. (See Kraemer, August F., assignor.)
- Stern, Louis, Company. (See Dansereau, Charles E., assignor.)
- Stern, Louis J., New York, N. Y. Liquid container. Des. 78,493; May 7.
- Stern, Mitchel, Philadelphia, Pa. Back rest for bathtubs. 1,740,791; Dec. 24.
- Stern, William J., assignor to Powerplus Limited, London, England. Rotary pump machine. 1,720,577; July 9.
- Sternad, Frank S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Sheet-feeding mechanism. 1,697,407; Jan. 1.
- Sternberg, Irving C., New York, N. Y., assignor to Arctic Nu-Air Corporation, Chicago, Ill. Deflector for ventilating systems. 1,708,243; Apr. 9.
- Sternberg, Irving C., New York, N. Y., assignor to Arctic Nu-Air Corporation, Chicago, Ill. Humidifying apparatus. 1,730,866; Oct. 8.
- Sternberger, Charles. (See Harry, G. M., and Sternberger.)
- Sterne, Frank J., et al. (See Opitz, Bernhard O., assignor.)
- Sterne, Willard F., Buffalo, assignor to American Radiator Company, New York, N. Y. Drinking fountain. 1,734,606; Nov. 5.
- Stetler, Harry E. (See Lintner, Charles W., assignor.)
- Stetson, Leon W., Cranston, R. I. Confection. 1,700,387; Jan. 29.
- Stettner, Ludwig W., Oakland, Calif., assignor, by mesne assignments, to Victor Welding Equipment Co. Fluid-pressure regulator. 1,739,926; Dec. 17.
- Stertzach, Harry W. (See Johnson, G. T., and Stertzach.)
- Stertzach, Harry W., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck-bolster construction. 1,713,059; May 14.
- Stertzach, Harry W., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Bolster. 1,733,675; Oct. 29.
- Steuart, Douglas S. S., London, England. Headgear attachment. 1,698,774; Jan. 15.
- Steuart, Stanley E. (See Kahlert, E. F., and Steuart.)
- Steuer, Edward A., Cincinnati, Ohio. Dust eliminator for hot-air furnaces. 1,728,140; Sept. 10.
- Steuer, Fred W., Boston, Mass., assignor to Cook Laboratories, Inc. Hypodermic syringe. 1,709,637; Apr. 16.
- Steuer, Fred W., Boston, Mass., assignor to Cook Laboratories, Inc. Hypodermic syringe. 1,709,691; Apr. 16.
- Stevens, Amasa L. (See Grant, Asa T., assignor.)
- Stevens, Charles D., San Diego, Calif. Nozzle holder. 1,714,329; May 21.
- Stevens, Arthur L., Corporation. (See Stevens, Arthur L., assignor.)
- Stevens, Arthur L., Evanston, assignor to Arthur L. Stevens Corporation, Chicago, Ill. Open-hearth-furnace construction. 1,736,023; Nov. 19.
- Stevens, Arthur R., Bronx, N. Y. Hair cutting and trimming device. 1,725,311; Aug. 20.
- Stevens, Byron, Oakland, Calif. Transmission. 1,726,246; Aug. 27.
- Stevens, Charles J., Saginaw, Mich. Switch-operating device. 1,699,409; Jan. 15.
- Stevens, Charles W., Columbus, Ohio. Valve mechanism. 1,715,176; May 28.
- Stevens, Clarence A., G. D. Baldwin, and J. I. Michaels, Wichita, Kans., assignors, by mesne assignments, to The Gleaner Combine Harvester Corporation, Independence, Mo. Combined harvester, thrasher, and separator. 1,702,323; Feb. 19.
- Stevens, Clarence E., St. Louis, Mo. Door and window structure. 1,740,124; Dec. 17.
- Stevens, Clement H., High Wycombe, England. Construction of wagon and like tanks. 1,715,683; June 4.
- Stevens, Daniel S., assignor to Bower Roller Bearing Company, Detroit, Mich. Roller-bearing cage. 1,698,075; Jan. 8.
- Stevens, Dexter, Esmond, R. I. Process of and apparatus for blending textile fibers. 1,717,633; June 18.
- Stevens, Dillon T. (See Smith, Herbert C., assignor.)
- Stevens, Douglas F., assignor to I. K. Stevens, Danville, Ill. Face brick or analogous article. Des. 79,171; Aug. 6.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Rotation mechanism for hammer drills. 1,713,987; May 21.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Scaling hammer. 1,714,282; May 21.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Butt for sand ramming and the like. 1,730,393; Oct. 8.
- Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Valve block for fluid-pressure tools. 1,739,927; Dec. 17.
- Stevens, Enoch P., deceased, Chicago, Ill.; M. A. Stevens, executrix. Furnace-arch construction. 1,710,247; Apr. 23.
- Stevens, Enoch P., deceased, Chicago; M. A. Stevens, executrix. Making firebrick. 1,727,138; Sept. 3.
- Stevens, Frank J. (See Gouverneur, M. F. H., and Stevens.)
- Stevens, Frederick A. (See Welsh, J. W., and Stevens.)
- Stevens, Frederick A., and J. W. Welsh, Providence, R. I., assignors, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,699,080; Jan. 15.
- Stevens, Frederick A., and J. W. Welsh, Providence, R. I., assignors, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,699,081; Jan. 15.
- Stevens, Frederick A., and J. W. Welsh, Providence, R. I., assignors to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,699,082; Jan. 15.
- Stevens, Frederick A., and J. W. Welsh, Providence, R. I., assignors to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,699,083; Jan. 15.
- Stevens, Frederick A., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,708,206; Apr. 9.
- Stevens, Frederick A., and J. W. Welsh, Providence, R. I., assignors to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple. 1,736,954; Nov. 26.
- Stevens, Goldie E., Madill, Okla. Construction for vessels. 1,725,680; Aug. 20.
- Stevens, Harry M., Schenectady, N. Y., assignor to General Electric Company. Relay. 1,738,461; Dec. 3.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Collapsible core. 1,723,386; Aug. 6.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Grooving tool. 1,741,797; Dec. 31.
- Stevens, H. L. (See Bird, William T., assignor.)
- Stevens, Herbert C. M., Lansing, assignor to General Motors Corporation, Detroit, Mich. Instrument-panel construction. 1,718,262; June 25.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tube-testing device. 1,699,481; Jan. 15.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tube-cuffing device for stripping machines. 1,711,474; Apr. 30.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for stripping rubber tubes from mandrels. 1,711,475; Apr. 30.
- Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rotary cutter. 1,715,872; June 4.
- Stevens, Ida K. (See Stevens, Douglas F., assignor.)
- Stevens, James B., Modesto, Calif. Windshield wiper. 1,711,756; May 7.
- Stevens, James L., Hayden, Ariz. Concentration of ores. 1,722,598; July 30.
- Stevens, John A., Lowell, Mass., assignor to The Upson Company, Lockport, N. Y. Manufacture of sheets, boards, and other materials. 1,714,251; May 21.
- Stevens, Leslie, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. Y. Acoustic diaphragm. 1,729,407; Sept. 24.
- Stevens Manufacturing Corporation. (See Stevens, Leslie, assignor.)
- Stevens, Mary A., executrix. (See Stevens, Enoch P.)
- Stevens, Merrill, J. C. Weeks, and C. E. Davidson, Topeka, Kans. Envelope-filling machine. 1,720,699; July 16.
- Stevens, Norman L., Bloomfield, N. J. Clock case. Des. 77,924; Mar. 5.
- Stevens, Paul R., Portland, Me. Toy chest. 1,731,325; Oct. 15.
- Stevens, Philip C., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Skate-sharpening device. 1,722,400; July 30.
- Stevens, Richard H. (See Keller, A. T., and Stevens.)
- Stevens, Richard H., Johnstown, Pa., assignor to Bethlehem Steel Company. Water-cooled furnace roller. 1,702,573; Feb. 19.
- Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric coupler device. 1,703,906; Mar. 5.
- Stevens, Royale H., G. C. Norris, and W. N. Watson, Broken Hill, Northern Rhodesia, South Africa, assignors to Rhodesia Broken Hill Development Company Limited, Broken Hill, Northern Rhodesia. Purification of industrial zinc-sulphate solutions preparatory to electrolysis. 1,733,676; Oct. 29.
- Stevens, Royale H., G. C. Norris, and W. N. Watson, Broken Hill, Northern Rhodesia, South Africa, assignors to Rhodesia Broken Hill Development Company Limited, Broken Hill, Northern Rhodesia. Recovery of vanadium. 1,733,700; Oct. 29.
- Stevens, Stephen P., Rumson, N. J. Parachute equipment for aeroplanes. 1,702,422; Feb. 19.
- Stevens, Thomas H., St. Louis, Mo. Portable concrete ash pit. 1,714,195; May 21.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Wire-twisting device. 1,699,482; Jan. 15.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-finishing machine. 1,703,832; Feb. 26.



- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Air-bag-inserting machine. 1,707,646; Apr. 2.
- Stevens, William C., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Circuit controller. 1,713,931; May 21.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-building machine. 1,723,387; Aug. 6.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-valve stem. 1,723,388; Aug. 6.
- Stevens, William C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Stock-assembling device. 1,730,307; Oct. 1.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Flat-band-tire building machine. 1,738,503; Dec. 3.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for use in removing pressure bags from pneumatic-tire casings. 1,738,504; Dec. 3.
- Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for making hollow-base tires or other rubber articles. 1,738,505; Dec. 3.
- Stevens, William C., and G. J. Meuer, assignors, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Vacuum-tube socket. 1,734,783; Nov. 5.
- Stevens, William G., jr., New York, N. Y. Gear-shifter mechanism. 1,738,462; Dec. 3.
- Stevenson, Alexander R. Jr., Schenectady, N. Y., assignor to General Electric Company. Voltage-regulating system. 1,723,090; Aug. 6.
- Stevenson, Arthur G. (See Toppin, H., and Stevenson.)
- Stevenson, Arthur G., Rochester, N. Y. Eraser holder. 1,721,059; July 16.
- Stevenson, Belle, administratrix. (See Stevenson, Walter L.)
- Stevenson, Earl P., Newton, assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Treating citrus fruits for the recovery of products thereof. 1,731,476; Oct. 15.
- Stevenson, Edward E., assignor, by mesne assignments, to Emco Derrick & Equipment Company, Los Angeles, Calif. Pump-rod suspension device. 1,703,214; Feb. 26.
- Stevenson, Edward E., assignor, by mesne assignments, to Emco Derrick & Equipment Company, Los Angeles, Calif. Polish rod grip. 1,716,840; June 11.
- Stevenson, Edward E., assignor, by mesne assignments, to Emco Derrick & Equipment Company, Los Angeles, Calif. Sucker-rod elevator. 1,721,533; July 23.
- Stevenson, Edward E., assignor, by mesne assignments, to Emco Derrick & Equipment Company, Los Angeles, Calif. Pumping jack. 1,727,571; Sept. 10.
- Stevenson, Edward P., Gerrards Cross, Buckinghamshire, England. Locomotive. 1,723,957; Aug. 6.
- Stevenson, Francis E., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Hydraulic reducing valve. 1,702,550; Feb. 19.
- Stevenson, Frederick A., assignor to Economy Metal Products Corporation, New York, N. Y. Cupola furnace. 1,733,138; Oct. 29.
- Stevenson, Frederick A., assignor to Economy Metal Products Corporation, New York, N. Y. Cupola furnace. 1,733,139; Oct. 29.
- Stevenson, Frederick A., assignor to Economy Metal Products Corporation, New York, N. Y. Cupola furnace. 1,733,140; Oct. 29.
- Stevenson, Frederick A., assignor to Economy Metal Products Corporation, New York, N. Y. Cupola furnace. 1,733,141; Oct. 29.
- Stevenson, Frederick H., assignor to Pennsylvania Chocolate Company, Pittsburgh, Pa. Applying coatings. 1,719,524; July 2.
- Stevenson, George H., New York, N. Y., assignor by mesne assignments to Western Electric Company, Incorporated. Electric-wave transmission system. 1,714,697; May 28.
- Stevenson, Harold C., Colorado Springs, Colo. Closure for collapsible tubes. 1,716,802; June 11.
- Stevenson, Joseph H., Hewlett, N. Y., assignor to Automatic Retailing Corporation. Handle for vending machines or the like. Des. 78,990; July 16.
- Stevenson, Lester J., Chicago, Ill. Telephone system. 1,734,696; Nov. 5.
- Stevenson, Robert J., and H. T. Colby, deceased, by L. B. Colby, Los Angeles, Calif., administratrix, assignors, by mesne assignments, to Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoker's stand. Re17,500; Nov. 26.
- Stevenson, Robert O., Philadelphia, Pa. Hospital bed. 1,697,027; Jan. 1.
- Stevenson, Thomas K., assignor to F. Van Blarcom, New York, N. Y. Antifriction bearing puller. 1,713,103; May 14.
- Stevenson, Thomas K., assignor to Francis Van Blarcom, New York, N. Y. Piston-ring remover. 1,727,139; Sept. 3.
- Stevenson, Walter L., deceased, Long Beach, Calif.; B. Stevenson, administratrix. Well capper. 1,727,300; Sept. 3.
- Stevenson, William B., Moorestown, N. J., assignor to Victor Talking Machine Company. Radiocabinet. Des. 80,247; Dec. 31.
- Stevenson, William B., Moorestown, N. J., assignor to Victor Talking Machine Company. Cabinet for sound producing and reproducing instruments. Des. 80,248; Dec. 31.
- Steventon, William H., Burslem, Stoke-on-Trent, England. Plate or similar article. Des. 78,230; Apr. 9.
- Stevenson, William M. (See Swangren, Edwin V., assignor.)
- Steuer, William, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Device for tightening screw bolts. 1,718,669; June 25.
- Steuer, William, Berlin, Germany, assignor to Behr-Manning Corporation, Troy, N. Y. Abrading device. 1,736,098; Nov. 19.
- Steward, Willard M., New York, N. Y., and H. C. Block, Houston, Tex. Light projector. 1,734,834; Nov. 5.
- Stewart, Albert D. (See Sheperd, Edward S., assignor.)
- Stewart, Amy. (See Stewart, Earle B. and A.)
- Stewart, Andrew B., Evanston, assignor to M. S. Steiner, Chicago, Ill. Portable support for electric lamps. 1,722,773; July 30.
- Stewart, Andrew J., Lebanon, Ind. Latch. 1,703,556; Feb. 26.
- Stewart, Carlton D., Berkeley, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor-controlling device. 1,707,285; Apr. 2.
- Stewart, Charles W., and F. R. Bater, San Diego, Calif. Automatic time regulator for sprinkling systems. 1,704,374; Mar. 5.
- Stewart, Claudius. (See Gohorel, F., and Stewart.)
- Stewart, Claudius, and F. Gohorel, Paris, France, assignors to Automatic Electric Inc., Chicago, Ill. Automatic or semiautomatic telephone system. 1,721,607; July 23.
- Stewart Curtis Packers, Inc. (See Addison, Amos I., assignor.)
- Stewart Die Casting Corporation. (See Will, W. O., and Carlson, assignors.)
- Stewart, Donald J., Surbiton, Saskatchewan, Canada. Seeding machine. 1,697,793; Jan. 1.
- Stewart, Earle B. and A., Ann Arbor, Mich. Corset. 1,728,985; Sept. 24.
- Stewart, Floyd R., et al. (See Dukesmith, Frank H., assignor.)
- Stewart, George R., Los Angeles, Calif. Combined cigarette holder and lighter. 1,704,844; Mar. 12.
- Stewart, Hector H. (See Edlin, G. S., and Stewart.)
- Stewart, Howard R., Los Angeles, Calif. Retarded circuit breaker. 1,735,588; Nov. 12.
- Stewart, Hugh A. (See Justice, W. V., and Stewart.)
- Stewart, Hugh T., New York, N. Y., assignor to Metalistic Inc., Jersey City, N. J. Packing. 1,698,660; Jan. 8.
- Stewart Iron Works Company, The. (See Stewart, Richard C., assignor.)
- Stewart, James A., Oakland, Calif. Sash mounting for reversible windows. 1,705,830; Mar. 19.
- Stewart, James R., Chicago, Ill. Stringed musical instrument. 1,699,380; Jan. 15.
- Stewart, John, Detroit, Mich. Refrigerator. 1,728,636; Sept. 17.
- Stewart, John C., Seattle, Wash. Movie-letter camera. 1,698,203; Jan. 8.
- Stewart, John C., Seattle, Wash. Plural-row motion-picture camera. 1,730,045; Oct. 1.
- Stewart, Laurence E., Bradford, Pa., assignor to Rolland Glass Company, Clarksburg, W. Va. Sheet-glass manufacture. 1,741,886; Dec. 31.
- Stewart Machine Company, The. (See Nelson, George W., assignor.)
- Stewart Manufacturing Corporation. (See Will, W. O., and Carlson, assignors.)
- Stewart, Norman. (See McCracken, Robert C., assignor.)
- Stewart, Patterson O., New York, N. Y. High-tension spark-amplifying means. 1,717,472; June 18.
- Stewart, Richard C., assignor to The Stewart Iron Works Company, Covington, Ky. Starting device for race tracks. 1,698,661; Jan. 8.
- Stewart, Robert T., Dunedin, New Zealand. Method of and means for use in dredging. 1,698,515; Jan. 8.
- Stewart, Ross C., Mount Royal, and W. A. Duff, Montreal, Quebec, Canada. Door structure. 1,703,795; Feb. 26.
- Stewart, Samuel, Birmingham, Ala. Gas washer. 1,718,988; July 2.
- Stewart, Stanley B., Centralia, Wash. Double bull hook. 1,699,381; Jan. 15.
- Stewart, Thomas M., assignor to Taylor Instrument Companies, Rochester, N. Y. Sphygmomanometer cuff. 1,729,297; Sept. 24.
- Stewart, Thomas M., assignor to Taylor Instrument Companies, Rochester, N. Y. Sterilizing thermometer. 1,729,298; Sept. 24.
- Stewart, Victor A., New York, N. Y. Bifocal spectacles. 1,735,021; Nov. 12.
- Stewart, Victor R., Glenside, Pa. Locomotive valve gear. 1,720,454; July 9.
- Stewart-Warner Corporation. (See Jelen, Matt J., assignor.)
- Stewart-Warner Corporation. (See Manning, Fred W., assignor.)
- Stewart-Warner Corporation. (See Manning, F. W., and Hirschler, assignors.)
- Stewart-Warner Corporation. (See Rockwell, Edward A., assignor.)
- Stewart-Warner Corporation. (See Whittington, Frederick G., assignor.)



- Stewart-Warner Speedometer Corporation. (See Dienner, John A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Edwards, William A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Olsen, John K., assignor.)
- Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)
- Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
- Stewart, William, et al. (See Hall, Frederick M., assignor.)
- Stewart, William, Albury, New South Wales, Australia. Self-closing hinged gate. 1,717,473; June 18.
- Stewart, William C., Swampscott, and H. L. Hood, Lynn, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,698,805; Jan. 15.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat-fitting machine. 1,739,100; Dec. 10.
- Stewarts & Lloyds Limited. (See Atha, Charles G., assignor.)
- Stiansen, Anton P. (See Lee, N., and Stiansen.)
- Stiansen, Anton P., assignor to National Seal Company, Inc., Brooklyn, N. Y. Bottle-sealing machine. 1,738,803; Dec. 10.
- Stich, firm: August. (See Hinrichsen, Erich, assignor.)
- Sticht, William F., West New York, N. J. Vibrating toothbrush. 1,703,642; Feb. 26.
- Stickel, Charles W. and W. E. McDonell, assignors to The Karlash Company Inc., Rochester, N. Y. Eyelash curler. 1,699,084; Jan. 15.
- Stickley, Leopold, Fayetteville, N. Y. Spring. 1,700,520; Jan. 29.
- Stickley, Leopold, Fayetteville, N. Y. Cabinet. 1,734,651; Nov. 5.
- Stickney, Burnham C., Hillside, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. Re17,478; Nov. 5.
- Stickney, Burnham C., Hillside, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. Re17,483; Nov. 5.
- Stickney, Burnham C., Hillside, N. J. Internal-combustion engine. 1,740,843; Dec. 24.
- Stickney, Burnham C., Hillside, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,731,444; Oct. 15.
- Stickney, Burnham C., Hillside, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,737,439; Nov. 26.
- Stickney, Burnham C., Hillside, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,737,982; Dec. 3.
- Stickney, Burnham C., Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,713,010; May 14.
- Stickney, Burnham C., Portsmouth, N. H. Internal-combustion engine. 1,729,804; Oct. 1.
- Stickney, Burnham C., Portsmouth, N. H. Internal-combustion engine. 1,730,174; Oct. 1.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,717,527; June 18.
- Stickney, Charles A., assignor, by mesne assignments, to C. P. Ford, St. Paul, Minn. Machine for making lath board. 1,698,925; Jan. 15.
- Stickney, Charles A., assignor to Stickney Hydraulic Co., Rockford, Ill. Water softener. 1,725,110; Aug. 20.
- Stickney, Fernald S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage instrument. 1,702,453; Feb. 19.
- Stickney, Fernald S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Frequency meter. 1,707,286; Apr. 2.
- Stickney, Fernald S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Adjustable resistor unit for thermocouple circuits. 1,728,810; Sept. 17.
- Stickney, Henry L., Manchester, N. H. Game. 1,713,455; May 14.
- Stickney Hydraulic Co. (See Stickney, Charles A., assignor.)
- Stidham, Fernando, Spanaway, Wash. Saw handle. 1,706,681; Mar. 26.
- Stiefel, Ralph C., Ellwood City, Pa. Forming blanks for making seamless tubes. 1,712,972; May 14.
- Stiefel, Ralph C., Ellwood City, Pa. Tube-forming mill. 1,736,099; Nov. 19.
- Stieger, Helmut J. (See Chorlton, A. E. L., Haig, and Stieger.)
- Stiehm, Louis F., Rollingsstone, Minn. Liquid strainer. 1,693,204; Jan. 8.
- Stiemke, Walter H. (See Jett, George C., assignor.)
- Stiennon, Simon J., Seraing sur Meuse, near Liege, Belgium. Packing device for pipe joints. 1,703,018; Feb. 19.
- Stiles, Thomas G., Arlington, N. J. Circuit controller. 1,700,149; Jan. 29.
- Stiles, Thomas G., Arlington, N. J. Rail brace. 1,713,060; May 14.
- Stiles, Thomas G., Arlington, N. J. Plunger lock circuit controller. 1,734,452; Nov. 5.
- Stiles, William H., P. F. Wagener, and J. F. Donovan, Cleveland, Ohio, assignors to General Electric Company. Sealing machine for incandescent lamps and similar materials. 1,742,153; Dec. 31.
- Still, Charles I., Ossining, N. Y. Canopy for beds. 1,707,647; Apr. 2.
- Still, William J., London, England. Heat-transmitting tube. 1,716,743; June 11.
- Still, William J., Ealing, London, England. Locomotive. 1,730,695; Oct. 8.
- Stillfilm Company. (See Perry, Charles W., assignor.)
- Stillman, Edwin A., assignor to The Watson-Stillman Co., New York, N. Y. Hydraulic jack. 1,711,549; May 7.
- Stillman, Ernest S., et al. (See Woodward, Horace L., assignor.)
- Stillman, Thomas B., South Orange, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Oil burner. 1,719,090; July 2.
- Stillman, Thomas B., South Orange, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler uptake. 1,735,884; Nov. 19.
- Stillman, Thomas B., South Orange, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler and superheater having replaceable tubes. 1,737,809; Dec. 3.
- Stillwell, Albert G., Cos Cob, Conn. Treating waste material. 1,740,276; Dec. 17.
- Stilson, Herbert A., Chicago, Ill. Self-propelled vehicle. 1,714,283; May 21.
- Stilwell, Corel A., Ionia, Mich. Thermostatic circuit controller. 1,699,317; Jan. 15.
- Stilz, Joseph. (See Viczzi, Luigi, assignor.)
- Stimpson, Edwin B. (See Rau, Henry V., assignor.)
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Rivet-feeding mechanism. 1,730,750; Oct. 8.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,731,358; Oct. 15.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,731,359; Oct. 15.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,731,360; Oct. 15.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,731,361; Oct. 15.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,731,362; Oct. 15.
- Stimpson, Edwin B., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Riveting machine. 1,731,399; Oct. 15.
- Stimpson, Edwin B., Company. (See Stimpson, Edwin B., assignor.)
- Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Yarn cleaner for spoolers. 1,703,847; Feb. 26.
- Stimpson, Walter F. (See Schuhmann, Richard L., assignor.)
- Stimpson, Walter F., Louisville, Ky. Meat grinder. 1,720,455; July 9.
- Stimpson, Walter F., Louisville, Ky. Scale. 1,731,326; Oct. 15.
- Stimpson, Walter F., and W. E. Finch, Louisville, Ky., said Finch assignor to said Stimpson. Shut-off mechanism for coffee-mill hoppers. 1,725,942; Aug. 27.
- Stimson, Edwin L., Eggertsville, N. Y., assignor to Essex Rubber Company, Trenton, N. J. Float-ball valve. 1,739,185; Dec. 10.
- Stimson, Robert W. (See Borchers, W., and Stimson.)
- Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Soluble cellulose esters containing phthalic groups and making the same. 1,704,306; Mar. 5.
- Stine, Charles M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition and making same. 1,721,931; July 23.
- Stine, Charles M. A., and J. E. Booge, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition and making same. 1,700,779; Feb. 5.
- Stiae, Charles M., and C. Coolidge, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition and process of making. 1,721,930; July 23.
- Stine, Charles M., and C. Coolidge, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition and making the same. 1,723,632; Aug. 6.
- Stine, Charles M. A., C. Coolidge, and E. B. Middleton, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Paint and varnish liquid and making same. 1,700,778; Feb. 5.
- Stine, G. I. (See Mowry, Lorenz J., assignor.)
- Stine, James E. (See Battey, W. A., Stine, and Borton.)
- Stine, James E., Aldan, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. End disk for hammer mills. 1,732,701; Oct. 22.
- Stine, Samuel B., Osceola Mills, Pa. Tool and making the same. 1,706,636; Mar. 26.
- Stine, Samuel B., Osceola Mills, Pa. Making screen plates. 1,723,311; Aug. 6.
- Stine, Wallace R., assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Making sheet-metal wheels. 1,698,702; Jan. 8.
- Stinnes, Zeche M. (See Correll, Adolf, assignor.)



- Stinnes, Zeche M. (See Weindel, Anton, assignor.)
- Stinnett, William H., Sugar Land, Tex. Reconditioning machine. 1,719,910; July 9.
- Stinson Carbonator Company, The. (See Stinson, Hugh S. and L., assignors.)
- Stinson, Hugh S., Glenwood, Minn., and L. Stinson, assignors to The Stinson Carbonator Company, Grand Forks, N. Dak. Carbonating apparatus. 1,713,787; May 21.
- Stinson, Leslie. (See Stinson, Hugh S. and L.)
- Stinson, Richard, Athol, assignor to Heywood-Wakefield Company, Boston, Mass. Baby-carriage body. Des. 77,627; Jan. 29.
- Stinson, Richard, Athol, assignor to Heywood-Wakefield Company, Boston, Mass. Baby-carriage body. Des. 77,628; Jan. 29.
- Stinson, Richard, Athol, assignor to Heywood-Wakefield Company, Boston, Mass. Adjustable reclining back. 1,719,571; July 2.
- Stinson, Robert E., Klamath Falls, Oreg. Fender clamp or grip hook. 1,708,433; Apr. 9.
- Stinson, Vernon T., Flint, Mich. Stormproof asphalt ridge shingle. 1,701,704; Feb. 12.
- Stirdivant, Clarence J., Los Angeles, Calif. Overhead air-service appliance. 1,712,176; May 7.
- Striss, Jacob D., New York, N. Y. Powder box. 1,732,866; Oct. 22.
- Stirling, Robert. (See Marsh, H. M., and Stirling.)
- Stirnweis, Andrew, Jr., Brooklyn, N. Y. Automatic switch operator. 1,736,676; Nov. 19.
- Stites, Frank, Three Rivers, Mich. Bathtub attachment. 1,729,367; Sept. 24.
- Stitt, Carroll W., and J. I. Jensen, Huron, S. Dak. Silo liner. 1,711,184; Apr. 30.
- Stitt Refrigeration Company. (See Stitt, Roscoe R., assignor.)
- Stitt, Roscoe R., assignor to Stitt Refrigeration Company, Detroit, Mich. Refrigerating apparatus. 1,698,350; Jan. 8.
- Stitzer, Ralph B., and K. M. Waddell, Toledo, Ohio. Gas-blending device. 1,714,284; May 21.
- Stivers, Jake M., Enid, Okla., assignor to The Best Blade & Holder Co., Oklahoma City, Okla. Meat-chopper blade and blade holder. 1,738,025; Dec. 3.
- Stobba, Frank J., Ashton, Nebr. Combination kitchen cabinet and table. 1,730,391; Oct. 8.
- Stöbe, Otto, Berlin, Germany, assignor to General Electric Company. Centrifugal device. 1,698,322; Jan. 8.
- Stock, Alfred, Berlin-Dahlem, Germany. Magnetic balance. 1,707,822; Apr. 2.
- Stock, Ephraim, Hams Fork, Wyo. Swing. 1,726,934; Sept. 3.
- Stock, Henry F., Waukesha, assignor to Michael Yundt Company, Milwaukee, Wis. Bottle-cleaning apparatus. 1,729,193; Sept. 24.
- Stock Motorplug Aktiengesellschaft. (See Jereczek, Viktor, assignor.)
- Stock Quotation Telegraph Company. (See Hiltz, George S., assignor.)
- Stock Quotation Telegraph Company. (See Hiltz, G. S., and Purcell, assignors.)
- Stockbridge & Borst. (See Moisant, Alfred J., assignor.)
- Stocker, Hattie V. G., New York, N. Y. Safety device for automobiles. 1,741,484; Dec. 31.
- Stockfleth, Berger. (See Burger, F. W., and Stockfleth.)
- Stockfleth, Berger, Berrien Springs, and F. W. Burger, Niles, assignors to Clark Tractor Company, Buchanan, Mich. Steering mechanism for vehicles. 1,711,224; Apr. 30.
- Stockfleth, Berger, Berrien Springs, and F. W. Burger, Niles, assignors to Clark Tractor Company, Buchanan, Mich. Shop tractor. 1,719,857; July 9.
- Stockfleth, Berger, Berrien Springs, and F. W. Burger, Niles, assignors to Clark Tractor Company, Buchanan, Mich. Shop tractor. 1,726,996; Sept. 3.
- Stockfleth, Berger, Berrien Springs, and F. W. Burger, Niles, assignors to Clark Tractor Company, Buchanan, Mich. Cranking mechanism for internal-combustion engines. 1,726,997; Sept. 3.
- Stockholders Syndicate. (See Blumenberg, Henry, Jr., assignor.)
- Stocking, Bert A., Denver, Colo., assignor to F. R. Steel-smith, trustee, Des Moines, Iowa. Wringer. 1,699,817; Jan. 22.
- Stocking, James W., Hollywood, Calif. Electric switching. 1,721,478; July 16.
- Stocking, Walter H., assignor to Pittsburgh Forgings Company, Coraopolis, Pa. Making truck-lever spreaders. 1,707,543; Apr. 2.
- Stockly, Walter D., Pittsburgh, Pa., and E. Drennen, Bronxville, N. Y. Conveying system. 1,706,905; Mar. 26.
- Stockman, Alfred M., Irvington, N. J. Display stand. 1,737,740; Dec. 3.
- Stockmar, Henry A., Birmingham, Ala. Manufacture of porous brick and the like. 1,740,631; Dec. 24.
- Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Range or similar article. Des. 79,110; July 30.
- Stockstrom, Arthur, assignor to American Stove Company, St. Louis, Mo. Vaporizer and making the same. 1,716,195; June 4.
- Stockstrom, Arthur, and A. H. Brodbeck, assignors to American Stove Company, St. Louis, Mo. Range. Des. 79,676; Oct. 22.
- Stockstrom, Arthur, and I. V. Brumbaugh, assignors to American Stove Company, St. Louis, Mo. Gas burner. 1,714,409; May 21.
- Stockton, Jack P., Spring Lake, N. J. Automatic control for phonographs. 1,715,873; June 4.
- Stockton, McKinley, Lompoc, assignor to The Celite Company, Los Angeles, Calif. Process of and apparatus for treating minerals. Re17,212; Feb. 12.
- Stockwell, Bert, Tacoma, Wash. Wheel dog. 1,721,646; July 23.
- Stockwell, Nathaniel Y., Los Angeles, Calif. Porch davenport. 1,729,194; Sept. 24.
- Stoddard, Charles F., New York, N. Y. Striking device for stringed musical instruments. 1,712,638; May 14.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Pneumatic valve action. 1,720,405; July 9.
- Stoddard, Charles F., assignor to American Piano Company, New York, N. Y. Pedal-operating mechanism. 1,734,607; Nov. 5.
- Stoddard, Daniel G., deceased, Wayzata; V. A. Stoddard, administratrix, assignor to Manufacturers Service Corporation, Minneapolis, Minn. Electric-light socket. 1,705,075; Mar. 12.
- Stoddard, Harry G., assignor to Wyman-Gordon Company, Worcester, Mass. Crank-shaft indicating and marking machine. 1,711,068; Apr. 30.
- Stoddard, Harry G., assignor to Wyman-Gordon Company, Worcester, Mass. Preparing steel billets for forging. 1,724,323; Aug. 13.
- Stoddard, Hart A., Saugatuck, Conn., assignor to Budd Wheel Company, Philadelphia, Pa. Making wheels. 1,716,013; June 4.
- Stoddard, John H., Ridgewood, N. J. Fare-indicating device and system. 1,699,863; Jan. 22.
- Stoddard, Villette A., administratrix. (See Stoddard, Daniel G.)
- Stoddard, William B., Stamford, Conn., and V. R. Kokatnur, assignors to Pilot Laboratory, Inc., Arlington, N. J. Making fatty-acid peroxide. 1,718,609; June 25.
- Stoefen, Robert R. (See Oberg, A. J., and Stoefen.)
- Stoeger, A. F., Inc. (See Nienstadt, August E., assignor.)
- Stoehr, Moriz, New York, N. Y. Music instrument. 1,729,805; Oct. 1.
- Stoekle, Erwin R., Milwaukee, Wis. Rheostat. 1,704,153; Mar. 5.
- Stoekle, Erwin R., assignor to Central Radio Laboratories, Milwaukee, Wis. Electrical resistance and the like. 1,704,154; Mar. 5.
- Stoelting Brothers Co. (See Stoelting, Gustav, assignor.)
- Stoelting, Gustav, assignor to Stoelting Brothers Co., Kiel, Wis. Cheese agitator. 1,728,637; Sept. 17.
- Stoeltzlen, Charles L., Erie, Pa., assignor to Penn-Union Electric Corporation, Connetquot, N. Y. 1,739,740; Dec. 17.
- Stogsdill, Layton J. (See Scott, Walter W., assignor.)
- Stohlgren, Carl O., Rockton, Ill. Saw for button-making machines. 1,732,953; Oct. 22.
- Stohr, Frederick W., South St. Paul, Minn. Railway spike. 1,737,206; Nov. 26.
- Stohrer, Robert, Leonberg, Germany. Cleaning intestine. 1,723,714; Aug. 6.
- Stokely, Ray L., Floral Park, assignor to Western Electric Company, Incorporated, New York, N. Y. Intercepting cord and trunk circuit. 1,708,959; Apr. 16.
- Stokely, Ray L., Floral Park, Long Island, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,719,091; July 2.
- Stoker, Paul P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,727,183; Sept. 3.
- Stokes, Charles L., Los Angeles, Calif. Automatic spark timer. 1,705,316; Mar. 12.
- Stokes, Charles L., Los Angeles, Calif. Rectifying lubricating oil. 1,705,317; Mar. 12.
- Stokes, Charles L., Los Angeles, Calif. Liquid-feed system. 1,720,248; July 9.
- Stokes, Charles L., Los Angeles, Calif. Stop signal. 1,727,947; Sept. 10.
- Stokes, Charles L., Los Angeles, Calif. Liquid-feed system. 1,736,100; Nov. 19.
- Stokes, Charles L., Los Angeles, Calif. Purifying lubricating oil. 1,741,348; Dec. 31.
- Stokes, Charles L., Los Angeles, Calif., assignor to C. B. Camp, trustee, Glencoe, Ill. Automatic fuel regulator. 1,696,929; Jan. 1.
- Stokes, Charles L., assignor of one-half to I. H. Rice, Los Angeles, Calif. Package. 1,701,316; Feb. 5.
- Stokes, Durett W., Orange Park, Fla. Mechanical baseball game. 1,724,860; Aug. 13.
- Stokes, F. J., Machine Company. (See Coleman, Charles F., assignor.)
- Stokes, Harlow T., Brooklyn, assignor to Metal Stamping Company, Long Island City, N. Y. Radiator shutter. 1,697,149; Jan. 1.
- Stokes, Harlow T., Brooklyn, assignor to Metal Stamping Company, Long Island City, N. Y. Connecting link. 1,714,053; May 21.
- Stokes, Harlow T., Brooklyn, assignor to Metal Stamping Company, Long Island City, N. Y. Locking adjuster. 1,717,948; June 18.
- Stokes, Howard G., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Picture-transmission system. 1,728,986; Sept. 24.



- Stokes, John C., Houston, Tex., and F. C. Gignoux, Los Angeles, Calif., assignors to Reed Roller Bit Company, Houston, Tex. Overshot. 1,719,144; July 2.
- Stokes, John S. (See Novotny, Emil E., assignor.)
- Stokes, John S. (See Novotny, E. E., and Kendall, assignors.)
- Stokes, John S. (See Novotny, E. E., and Romieux, assignors.)
- Stokes, John S., Huntingdon Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Wrapper gumming and delivery system. 1,701,317; Feb. 5.
- Stokes, John S., Huntingdon Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Method of and apparatus for shaping blanks. 1,724,529; Aug. 13.
- Stokes, John S., Huntingdon Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Coating apparatus. 1,741,382; Dec. 31.
- Stokes, Russell C., Portland, Oreg. Milk-bottle carrier. 1,711,757; May 7.
- Stokes and Smith Company. (See Federwitz, Theodore A., assignor.)
- Stokes and Smith Company. (See Guest, Benjamin F., assignor.)
- Stokes and Smith Company. (See Stokes, John S., assignor.)
- Stokstad, John L., Stoughton, Wis. Sirup-dispensing container for soda fountains. 1,724,378; Aug. 13.
- Stoler, Edward W., Mansfield, Ohio. Nipple for wire spokes. 1,734,184; Nov. 5.
- Stoll, Albert, Detroit, Mich. Valve construction for compressors and refrigerating pumps. 1,719,572; July 2.
- Stoll, Albert, Koblenz, Switzerland. Revolving chair having resiliently-mounted seat. 1,725,312; Aug. 20.
- Stoll, Albert, Koblenz, Switzerland. Adjustable chair. 1,726,372; Aug. 27.
- Stoll, Arthur, Arlesheim, near Basel, and W. Kussmaul, assignors to the firm Chemical Works formerly Sandoz, Basel, Switzerland. Oxidation of aldoses. 1,703,755; Feb. 26.
- Stoll, Charles, assignor to Central Furniture Frame Co., Inc., Brooklyn, N. Y. Settee or similar article. Des. 79,490; Sept. 24.
- Stoll, Charles, assignor to Central Furniture Frame Co., Inc., Brooklyn, N. Y. Settee or similar article. Des. 79,491; Sept. 24.
- Stoll, Charles, Rockaway Beach, assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y. Settee or similar article. Des. 80,192; Dec. 24.
- Stoll, Charles E., Chicago, Ill. Weedless artificial bait. 1,701,643; Feb. 12.
- Stoll, Frank M., Denver, Colo. Latch mechanism for hinged members. 1,714,698; May 28.
- Stoll, Fred W., Cleveland, Ohio. Child's walking device. 1,729,557; Sept. 24.
- Stoll, Matthew H. (See Clemmons, D. W., and Stoll.)
- Stoller, Abraham, New York, N. Y. Make-ready device. 1,714,895; May 28.
- Stoller, Hugh M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulator system. 1,711,661; May 7.
- Stoller, Hugh M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulator system. 1,719,492; July 2.
- Stoller, Hugh M., Mountain Lakes, N. J., and E. R. Morton, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric regulator. 1,719,491; July 2.
- Stolley, R. R., Inc. (See Boon, Guthrie B., assignor.)
- Stoloff, Charles I., New York, N. Y. Removable bridge-locking device. 1,702,282; Feb. 19.
- Stoltenberg, Ole, Tacoma, Wash. Bed davenport. 1,721,647; July 23.
- Stoltz, Carl F., Delhi, Ohio, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,712,525; May 14.
- Stolz, Friedrich, Höchst-on-the-Main, and W. Krohs, Soden-im-Taunis, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Aromatic acid esters of the  $\alpha, \alpha'$ -dimethyl- $\gamma$ -hydroxypiperidine- $\beta$ -carboxylic acid esters and preparing the same. 1,703,121; Feb. 26.
- Stolz, Otto G., Chicago, Ill. Valve stem. 1,728,190; Sept. 17.
- Stomps, Louis H., Fairfield, Ala. Dust-guard-wedge retainer. 1,739,807; Dec. 17.
- Stone, Abraham, et al. (See Stone, Abraham, assignor.)
- Stone, Abraham, assignor, by mesne assignments, to A. Stone and M. Frost, Brooklyn, N. Y. Dustproof bag. 1,720,013; July 9.
- Stone, Charles G., Greenville, Pa. Door. 1,698,568; Jan. 8.
- Stone, Charles H., deceased, by S. F. Stone, administratrix, Muscatine, Iowa. Harrow attachment. 1,708,337; Apr. 9.
- Stone, Charles W., Niskayuna, N. Y., assignor to General Electric Company. Relay system. 1,708,806; Apr. 9.
- Stone Corporation, The. (See Winston, Joseph, assignor.)
- Stone, David I., Berwyn, and D. S. Brown, Chicago, Ill. Drum-trap construction. 1,731,990; Oct. 15.
- Stone, David T. (See Frey, Louis, assignor.)
- Stone, Edwin W., Longmeadow, Mass., assignor to Bigelow-Hartford Carpet Company, Thompsonville, Conn. Pile-wire-carriage-controlling means for pile-fabric looms. 1,704,521; Mar. 5.
- Stone, Edwin W., Longmeadow, Mass., assignor to Bigelow-Hartford Carpet Company, Thompsonville, Conn. Loom. 1,714,112; May 21.
- Stone, Edwin W., Longmeadow, Mass., assignor to Bigelow-Hartford Carpet Company, Thompsonville, Conn. Pile-wire-positioning hook. 1,726,506; Aug. 27.
- Stone, Edwin W., Longmeadow, Mass., assignor to Bigelow-Hartford Carpet Company, Thompsonville, Conn. Pile-fabric loom. 1,733,634; Oct. 29.
- Stone, Enoch G., Piedmont, Okla. Cotton harvester. 1,734,504; Nov. 5.
- Stone, Frederick, Santa Maria, assignor to Doheny-Stone Drill Co., Los Angeles, Calif. Core drill. 1,720,700; July 16.
- Stone, Herman, Greeley, Colo. Weeding tool. 1,716,841; June 11.
- Stone Homes Process, Incorporated. (See Williamson, Bailey F., assignor.)
- Stone, Irving I., Chicago, Ill. Centering chuck for web rolls. Re17,479; Nov. 5.
- Stone, Irving I., Chicago, Ill. Change-web-roll driving device. 1,699,928; Jan. 22.
- Stone, Irving I., assignor to Gustavus A. E. Kohler, Chicago, Ill. Paper-feeding mechanism for printing presses. 1,722,508; July 30.
- Stone, Isaac. (See Van Hoozer, D., and Stone.)
- Stone, J., and Company Limited. (See Pike, F. J., and Lyth, assignors.)
- Stone, Jacob M., El Dorado, Ark. Combined pencil holder and sharpener. 1,728,774; Sept. 17.
- Stone, John M., assignor to Operadio Manufacturing Co., Chicago, Ill. Acoustic horn and method of and apparatus for making the same. 1,735,476; Nov. 12.
- Stone, John S., San Diego, Calif., assignor to American Telephone and Telegraph Company. Antenna array. 1,715,433; June 4.
- Stone, John S., San Diego, Calif., assignor to American Telephone and Telegraph Company. Associated resonant circuits. 1,720,770; July 16.
- Stone, Joseph, Bessemer, Ala. Controlling mechanism for mold-ramming machines. 1,728,705; Sept. 17.
- Stone, Joseph A., Walsall, assignor to Pianoforte Supplies Limited, Simpler Works, England. Lid-supporting means for cabinets or boxes. 1,741,081; Dec. 24.
- Stone, Julius F., Columbus, Ohio. Antiskid device. 1,722,065; July 23.
- Stone, Louis J. (See Jones, A. L., and Ruschmeyer, assignors.)
- Stone, Melvin L., Providence, assignor to The Esmond Mills, Esmond, R. I. Cloth trimmer for looms. 1,721,887; July 23.
- Stone, R. Harry, Irvington, N. J., assignor to Titeflex Metal Hose Co. Die-cutting apparatus. 1,699,720; Jan. 22.
- Stone, R. Harry, Irvington, N. J., assignor to Titeflex Metal Hose Co. Cutting dies. 1,699,721; Jan. 22.
- Stone Straw Corporation. (See Casey, Carl, assignor.)
- Stone, Susan F., administratrix. (See Stone, Charles H.)
- Stone, Walter B., Webster, Mass. Storage-battery separator and retainer. 1,736,101; Nov. 19.
- Stone, Walter C., Webster Groves, Mo. Refrigerator car. 1,707,330; Apr. 2.
- Stone, Walter C., Webster Groves, Mo. Moistureproof wall structure and making same. 1,729,632; Oct. 1.
- Stone, Walter R. (See Losey, J. B., and Stone.)
- Stone & Webster, Inc. (See MacKay, James, assignor.)
- Stone, William H., Goodland, Kans. Lifting jack. 1,742,106; Dec. 31.
- Stonebraker, Harold E., Rochester, N. Y. Thermometer case. 1,698,377; Jan. 8.
- Stoneham, John. (See Hamey, A. C., and Stoneham.)
- Stonehill, Winaloe U., Cincinnati, Ohio. Automobile signal. 1,713,305; May 14.
- Stoner-Ames Brake Company. (See Stoner, George H., assignor.)
- Stoner, George H., East Boston, assignor, by mesne assignments, to Stoner-Ames Brake Company, Inc., Boston, Mass. Brake. 1,724,114; Aug. 13.
- Stoner, Lewis D., San Francisco, Calif. Automatic fluid feeder. 1,728,737; Sept. 17.
- Stoner, Paul, assignor to Landis Tool Company, Waynesboro, Pa. Traversing mechanism for grinding machines. 1,726,247; Aug. 27.
- Stoner, William, Fresno, Calif. Device for separating raisins from foreign matter. 1,711,817; May 7.
- Stoop, William D., et al. (See Butler, Thomas H., assignor.)
- Storch, Henry H. (See Gauger, A. W., and Storch.)
- Storch, Henry H., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Process and catalyst for the synthesis of methanol. 1,707,331; Apr. 2.
- Storch, Henry H., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Process and catalyst for synthesis of methanol. 1,738,971; Dec. 10.
- Storch, Morris, and I. Frank, Brooklyn, N. Y. Brush attachment for automobiles. 1,737,952; Dec. 3.
- Storch, Samuel, Brooklyn, N. Y., assignor to The Emeloid Co., Inc., Arlington, N. J. Hygienic mouthpiece. 1,736,228; Nov. 19.
- Storer, Bernard J. (See Moore, W. F., and Storer.)
- Storer, Joseph W., New York, N. Y. Variable condenser. 1,704,845; Mar. 12.
- Storer, Norman W., Pittsburgh, A. H. Candee, Wilkinsburg, and L. M. Aspinwall, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor-control system. 1,710,792; Apr. 30.



- Storey, Oliver W., Madison, Wis., assignor, by mesne assignments, to C. F. Burgess Laboratories, Inc., Dover, Del. Making wall board. 1,698,351; Jan. 8.
- Storey, Oliver W., and J. G. Zimmerman, assignors to C. F. Burgess Laboratories, Inc., Madison, Wis. Dry cell. 1,737,130; Nov. 26.
- Storey, W. T., et al. (See Jones, Labron P., assignor.)
- Stork Engineering Company. (See Stork, Fred W., assignor.)
- Stork, Fred W., assignor to Stork Engineering Company, Incorporated, Saginaw, Mich. Oil-field jack. 1,721,718; July 23.
- Stork, Henry J., Arlington, Nebr. Lubricant-dispensing device. 1,733,635; Oct. 29.
- Storlie, Garfield, Tacoma, Wash. Internal-combustion engine. 1,730,594; Oct. 8.
- Storlie, Ole O., Tacoma, Wash. Transmission gear. 1,725,313; Aug. 20.
- Storlie, Ole O., Tacoma, Wash. Transmission mechanism. 1,735,187; Nov. 12.
- Storm, Albion, Sherston, Ontario, Canada, assignor to Deere & Company, Moline, Ill. Manure spreader. 1,724,379; Aug. 13.
- Storm, Hans O., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Arc generator electrode. 1,711,185; Apr. 30.
- Storme, John C., Anacortes, Wash. Vehicle extricating device. 1,700,089; Jan. 22.
- Storms, Earl W., Oakland, Calif. Window frame. 1,708,556; Apr. 9.
- Storms, Earl W., Oakland, Calif. Window frame. 1,708,557; Apr. 9.
- Storms, Earl W., Oakland, Calif. Sash-balance housing block. 1,722,688; July 30.
- Storms, Harold O., Spring Green, Wis., assignor of one-half to H. R. Madsen and H. A. Hovelsrud. Wiper arm for windshield cleaners. 1,724,530; Aug. 13.
- Storsand, Bjorn R., Kentfield, assignor to Yuba Manufacturing Company, San Francisco, Calif. Dredge. 1,698,033; Jan. 8.
- Stortz, John H., Philadelphia, Pa. Machine for making pasteboard boxes. 1,730,543; Oct. 8.
- Stössel, Arthur, Lake Wales, Fla. Ellipsograph. 1,724,738; Aug. 13.
- Stotlemeyer, John H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley car. 1,729,904; Oct. 1.
- Stott, Alexander W., Clearwater, Fla., assignors to The Hills Brothers Company, Inc. Apparatus for canning citrus fruit. 1,719,631; July 2.
- Stott, Emma B., Chicago, Ill., assignor to Milton Bradley Company, Springfield, Mass. Loom. 1,737,983; Dec. 3.
- Stott, William J., Worcester, Mass. Attachment for electric plugs. 1,699,722; Jan. 22.
- Stötter, Hermann. (See Lommel, W., Münzel, Stötter, and Wenk.)
- Stötter, Herman. (See Weiler, M., Wenk, and Stötter.)
- Stotz, Charles. (See McCann, A. A., and Stotz.)
- Stotz, Charles, assignor to Diamond Specialty Mfg. Company, St. Louis, Mo. Shoe-heel-attaching jack. 1,710,718; Apr. 30.
- Stough, Jay A., Tulsa, Okla., assignor, by mesne assignments to The Philip Carey Manufacturing Company. Tank. 1,732,779; Oct. 22.
- Stoup, George, and G. G. Smith, Franklin, Va. Jack. 1,717,275; June 11.
- Stoup, George G. (See Smith, G. G., and Stoup.)
- Stout, Carl C., Lewis, Ind. Chair. 1,733,919; Oct. 29.
- Stout, Carson D. (See Nattress, W. E., and Stout.)
- Stout, Charles H., North Arlington, and J. Caballero, South Orange, N. J. Automatic pencil. 1,697,437; Jan. 1.
- Stout, Edward E. (See Weydell, Jarl M., assignor.)
- Stout, Elmer O., assignor to Frigidaire Corporation, Dayton, Ohio. Refrigerating apparatus. 1,733,126; Dec. 3.
- Stout, Ida O., Greenfield, Ohio. Curling iron. 1,698,741; Jan. 15.
- Stout Manufacturing Company. (See Krause, Hermann F., assignor.)
- Stout, Samuel J. T., et al. (See Avirgan, Joseph, assignor.)
- Stout, Wilfred O., St. Paul, Minn. Map holder. 1,723,820; Aug. 6.
- Stovall, Johnie C., Plainview, Tex. Acetylene-gas generator. 1,740,208; Dec. 17.
- Stovall, Smith L., Kerto, assignor to C. A. Gibson and J. F. Gibson, jr., Visalia, Calif. Separator. 1,727,733; Sept. 10.
- Stovall, V. A. (See Kinard, James A., assignor.)
- Stoveken, William. (See Cox, J. F., Thornton, Carroll, and Stoveken.)
- Stover, Clinton W., Canton, Ohio. Die for forging insulator caps. 1,709,328; Apr. 16.
- Stover, Gordon B., assignor to W. W. Glechner & Sons Company, Canton, Pa. Belt. 1,719,145; July 2.
- Stover, Herbert F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Collapsible support. 1,733,172; Oct. 29.
- Stover, Hollie B. (See Grimes, H., and Stover.)
- Stover Manufacturing & Engine Co. (See Haller, Frank J., assignor.)
- Stover Signal Engineering Company, The. (See Styberg, Ernest C., assignor.)
- Stow Manufacturing Company, et al. (See Thompson, Claude H., assignor.)
- Stow, William C., Mountain Lakes, N. J. Writing implement. 1,730,046; Oct. 1.
- Stowe, Loyd R., St. Louis, Mo. Furnace lining. 1,723,092; Aug. 6.
- Stowell, Austin L., assignor to The Stanley Works, New Britain, Conn. Line level. 1,716,744; June 11.
- Stowell, Byron F., assignor to Van Norman Machine Tool Company, Springfield, Mass. Making collets. 1,716,331; June 4.
- Stowell, Byron F., assignor to Van Norman Machine Tool Company, Springfield, Mass. Collet. 1,735,804; Nov. 12.
- Stowell, Harold T. (See Rogers, D. G., and Stowell.)
- Stowell, William G., and L. A. Hersh, assignors, by mesne assignments, to H. Bohn, Dayton, Ohio. Ironing-machine frame. Des. 78,129; Mar. 26.
- Stoye, Kurt, New York, N. Y. Electrotherapeutic machine. 1,740,963; Dec. 24.
- Strachan, Thomas H., assignor to Dayton Scale Company, Dayton, Ohio. Steelyard stirrup for weighing scales. 1,738,932; Dec. 10.
- Strachan, Thomas H., assignor to Dayton Scale Company, Dayton, Ohio. Meat chopper. 1,738,933; Dec. 10.
- Strachan & Henshaw, Limited. (See Robinson, F. G., Sargent, and French, assignors.)
- Strachauer, Frederick W., and F. B. Gillett, Sacramento, Calif. Flue-bulging machine. 1,740,792; Dec. 24.
- Strachota, Clarence A. (See Sharp, C. E., and Strachota.)
- Strack, Herman. (See Hansmann, P., and Strack.)
- Strader, Earl M., assignor to C. A. Lemaster, Kansas City, Mo. Toaster. 1,738,972; Dec. 10.
- Strafino, Vincent, New York, N. Y. Water-drawing apparatus for aircraft. 1,729,558; Sept. 24.
- Straight, Ethel H. (See Straight, Halver R., assignor.)
- Straight, Halver R., assignor to E. H. Straight, Adel, Iowa. Continuous kiln. 1,711,910; May 7.
- Straight, Halver R., assignor to E. H. Straight, Adel, Iowa. Device for spacing and delivering pallets. 1,718,443; June 25.
- Straight, Halver R., assignor to E. H. Straight, Adel, Iowa. Drier for ceramic wares. 1,724,325; Aug. 13.
- Strain, Edward F., Sapulpa, Okla. Pull-line support. 1,698,742; Jan. 15.
- Straitt, Claude A., Duluth, Minn. Rail anchor. 1,728,775; Sept. 17.
- Straitt, Lacle J., assignor of one-half to A. C. Fleckenstein, Folsom City, Calif. Coil. 1,729,971; Oct. 1.
- Straittline Radio Corporation. (See Herman, Henry F., assignor.)
- Strama, Joseph, assignor to American Flange & Manufacturing Co., Chicago, Ill. Container having bung. 1,711,291; Apr. 30.
- Strama, Joseph, assignor to American Flange & Manufacturing Co., Chicago, Ill. Forming rims. 1,718,610; June 25.
- Stramaglia, Nicola, Chicago, Ill. Centrifugal drier. 1,707,823; Apr. 2.
- Stranahan, Samuel A., Flint, assignor to General Motors Corporation, Detroit, Mich. Exhaust-manifold muffler. 1,697,794; Jan. 1.
- Stranahan, Samuel A., Flint, assignor to General Motors Corporation, Detroit, Mich. Single-plate clutch. 1,712,943; May 14.
- Stranahan, Samuel A., Flint, assignor to General Motors Corporation, Detroit, Mich. Steering-gear check. 1,713,242; May 14.
- Strand, Alfred, Vernon, Tex. Flytrap. 1,715,958; June 4.
- Strand, Clarence B., Mahanomen, Minn. Motor-operated assembling tool. 1,734,406; Nov. 5.
- Strand, Harry L., Boston, Mass. Tile block and wall construction. 1,734,749; Nov. 5.
- Strand, Henry, and B. D. Jackson, Cleveland, Ohio. Tool. 1,715,255; May 28.
- Strandlund, Carl C. (See Brown, T., and Strandlund.)
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Sand box for cultivators. 1,715,394; June 4.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Disk-plow scraper. 1,726,278; Aug. 27.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Cultivator. 1,731,509; Oct. 15.
- Strandlund, Elmer T., Homestead, Mont. Washer. 1,712,408; May 7.
- Strandt, Gustav E., and A. J. Lippold, Milwaukee, Wis., assignor, by mesne assignments, to Cherry-Burrell Corporation, Cedar Rapids, Iowa. Bottle-filling machine. 1,716,869; June 11.
- Strandt, Gustav E., Milwaukee, Wis., assignor, by mesne assignments, to Cherry-Burrell Corporation, Cedar Rapids, Iowa. Bottle-capping device. 1,739,101; Dec. 10.
- Strang, Stockholm B., Valhalla, N. Y. Window-lifting device. 1,726,867; Sept. 3.
- Strange, Oliv B., Temple, Tex. Device for ripening milk for churning. 1,709,287; Apr. 16.
- Strasser, Eugen, Rorschach, assignor to M. Dietiker, Zurich, Switzerland. Production of aluminum castings and molds for use therein. 1,724,624; Aug. 13.
- Strasser, Jerome P., New York, N. Y. Waterproof cement. 1,738,022; Dec. 3.
- Strassheim, Christopher. (See Hawes, Charles L., assignor.)
- Stratford, Charles W., San Francisco, Calif. Method of and coupling for joining pipes or the like. 1,703,696; Feb. 26.



- Stratford, Charles W., San Francisco, Calif. System of treating hydrocarbon distillates and apparatus used in connection therewith. 1,736,018; Nov. 19.
- Stratford, Charles W., San Francisco, Calif. Centrifugal separator and valve therefor. 1,741,207; Dec. 31.
- Stratford, Charles W., and W. S. James, San Francisco, Calif. Apparatus for refining oil. 1,741,887; Dec. 31.
- Stratford, Herbert R., assignor to The Stratmore Company, Cleveland, Ohio. Surfacing apparatus. 1,737,099; Nov. 26.
- Stratford, Nathaniel W., assignor to The Beardsley & Piper Company, Chicago, Ill. Sand cutter. 1,711,104; Apr. 30.
- Stratford, Roland L., Cleveland, Ohio. Combined closure and identification device. 1,711,469; Apr. 30.
- Stratford, William M., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Revivifying adsorbent materials. 1,724,531; Aug. 13.
- Stratford, William M., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Treating and purifying hydrocarbon lubricating oils. 1,738,330; Dec. 3.
- Stratmore Company, The. (See Mall, Arthur W., assignor.)
- Stratmore Company, The. (See Stratford, Herbert R., assignor.)
- Stratton, Frank E., Cranston, assignor to Diamond Machine Co., Providence, R. I. Swing-frame grinder. 1,724,050; Aug. 13.
- Stratton, Frank E., Cranston, assignor to Diamond Machine Company, Providence, R. I. Fluid-pressure-actuated grinding machine. 1,725,489; Aug. 20.
- Stratton, Frank E., Edgewood, assignor to Diamond Machine Company, Providence, R. I. Swing-frame grinder. 1,724,115; Aug. 13.
- Stratton, John F. O., Chicago, Ill. Furnace. 1,713,566; May 21.
- Stratton, Oscar, and M. B. Hefner, Bethany, Mo. Baking pan. 1,727,257; Sept. 3.
- Straub, Francis J., New Kensington, Pa. Block filling and molding apparatus. 1,709,755; Apr. 16.
- Straub, Fritz, Basel, assignor to the firm "Society of Chemical Industry in Basle," Basel, Switzerland. Production of fast tints on vegetable fiber. 1,704,637; Mar. 5.
- Straubel, Frederick L. G., Green Bay, Wis. Latch for cabinet drawers. 1,706,085; Mar. 19.
- Straubel, Frederick L. G., assignor to The Automatic File & Index Co., Green Bay, Wis. Desk tray set. 1,728,638; Sept. 17.
- Straubel, Frederick L. G., assignor to The Automatic File & Index Co., Green Bay, Wis. Follower for card trays. 1,741,743; Dec. 31.
- Strauchen, David M., assignor to Ritter Dental Manufacturing Co., Inc., Rochester, N. Y. Treating leather and producing leather articles. 1,738,934; Dec. 10.
- Straumann, Reinhard, assignor to the firm Thommens Uhrenfabriken A. G., Waldenburg, Switzerland. Producing watch parts. 1,735,805; Nov. 12.
- Straus Company. (See Stuart, Ralph, assignor.)
- Straus, Mittelforfer, New York, N. Y. Cigarette holder or similar article. Des. 78,544; May 14.
- Straus National Bank and Trust Company of Chicago, trustee. (See Montreuil, Frank H., assignor.)
- Straus Trust Company, executor. (See Montreuil, Frank H.)
- Strauss, Alexander H., et al. (See Schwartz, Charles M., assignor.)
- Strauss, Elizabeth D. (See Davol, George K.)
- Strauss, Ferdinand, New York, N. Y. Removable harmonica mouthpiece for wind instruments. 1,705,076; Mar. 12.
- Strauss, Joseph B., Chicago, Ill. Bascule bridge. 1,714,699; May 28.
- Strauss, Joseph B., Chicago, Ill. Lubricator for bridge trunnions. 1,724,532; Aug. 13.
- Strauss, Joseph B., Chicago, Ill. Flying machine. 1,727,450; Sept. 10.
- Strauss, Joseph B., Chicago, Ill. Bascule bridge. 1,730,595; Oct. 8.
- Strauss, Joseph B., Chicago, Ill. Car-dumping device. 1,735,022; Nov. 12.
- Strauss, Joseph B., Chicago, Ill. Pavement. 1,739,102; Dec. 10.
- Strauss, Joseph B., Chicago, Ill. Bridge. 1,739,103; Dec. 10.
- Strauss, Samuel, Los Angeles, Calif. Machine for making shoes. 1,725,314; Aug. 20.
- Strauss, Samuel, Brooklyn, N. Y. Making one-piece shoes. 1,725,315; Aug. 20.
- Strauss, Siegfried, Wurzberg, and S. Gerschütz, Stadtlauringen, Germany. Hammock litter. 1,735,552; Nov. 12.
- Strauss, William O., and W. E. Groene, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe cross feed. 1,728,220; Sept. 17.
- Straussler, Nicholas, Westminster, London, England. Collapsible structure such as pontoons and seaplane floats, divisible into boats. 1,720,701; July 16.
- Straussler, Nicholas, London, England. Motor vehicle. 1,735,984; Nov. 19.
- Straussler, Nicholas, London, assignor to A. M. Billington, Hayes, Middlesex, England. Coin receptacle, change-giving machine, and the like. 1,736,677; Nov. 19.
- Straussler, Nicholas, London, England. Folding vehicle. 1,739,269; Dec. 10.
- Straw, Bernard W., Mount Airy, Md., assignor to Automatic Ballast Spreader Corporation, Wilmington, Del. Distributing ballast. 1,732,545; Oct. 22.
- Strawbridge & Clothier. (See Woodruff, William W., assignor.)
- Strawser, George A., Liverpool, assignor of one-half to D. W. Goodling, Richfield, Pa. Hand-operated tying device. 1,711,911; May 7.
- Strawther, Adren B., Lexington, Ky. Cleansing composition. 1,714,054; May 21.
- Strayer, Arthur C., New Brighton, Pa. Fastener. 1,719,343; July 2.
- Streamas, Edward, et al. (See Yater, John, assignor.)
- Streamas, Henry, et al. (See Yater, John, assignor.)
- Streator Drain Tile Co. (See Tremper, Jake L., assignor.)
- Streby, Ray D., assignor to The Timken Roller Bearing Company, Canton, Ohio. Groove-dressing tool. 1,722,023; July 23.
- Strecker, Otto C., Darmstadt, Germany. Production of cellulose by decomposition of vegetable fibers. 1,705,424; Mar. 12.
- Streckfuss, Elmer G., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time recorder. 1,731,550; Oct. 15.
- Street, James A., Detroit, Mich., assignor of one-half to H. C. Zeitz, Clarksburg, W. Va. Headlight. 1,728,376; Sept. 17.
- Street, John, Northfield, assignor of one-half to O. M. Hatcher, Minneapolis, Minn. Locking and aligning device for belt stamps. 1,713,306; May 14.
- Street, Joseph P., Chattanooga, Tenn. Clutch-operating mechanism for hoists. 1,700,552; Jan. 29.
- Street Luminaire Company. (See Haley, Reuben, assignor.)
- Street, William M., Springfield, Ill. Combination nursery step and stool. 1,700,959; Feb. 5.
- Streeter, Edwin H., Cloquet, Minn., assignor to Wood Conversion Company. Stock-spreading flow box. 1,712,852; May 14.
- Streeter, John S., Rosebank, Union of South Africa. Timing apparatus. 1,731,182; Oct. 8.
- Strehlein, Mary A., Evanston, Ill. Fastener for garments and other articles. 1,731,066; Oct. 8.
- Streich, Frank, assignor to Union Machinery Company, Joliet, Ill. Dough divider. 1,738,935; Dec. 10.
- Streich, Frank, and W. P. Elwood, assignors to Union Machinery Company, Joliet, Ill. Loaf inverting mechanism for proofers. 1,710,385; Apr. 23.
- Streid, John R., Kenmore, assignor of one-half to R. B. Meade, Akron, Ohio. Toy gun. 1,697,547; Jan. 1.
- Streit, Carl F., Cincinnati, Ohio. Chair. 1,720,102; July 9.
- Streng, Jan, assignor to The Ansonia Clock Company, New York, N. Y. Clock-face dial. Des. 78,043; Mar. 19.
- Streng, Jan, assignor to The Ansonia Clock Company, New York, N. Y. Clock-face dial. Des. 78,044; Mar. 19.
- Streng, Jan, assignor to The Ansonia Clock Company, New York, N. Y. Timepiece hand. Des. 78,664; May 28.
- Streng, Jan, assignor to The Ansonia Clock Company, New York, N. Y. Timepiece hand. Des. 79,612; Oct. 15.
- Streng, Jan, assignor to The Ansonia Clock Company, New York, N. Y. Timepiece hand. Des. 79,860; Nov. 5.
- Streng, Jan, assignor to The Ansonia Clock Company, New York, N. Y. Timepiece hand. Des. 79,861; Nov. 5.
- Stresau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Method of and apparatus for electrically welding pipe couplings in a continuous operation. 1,704,846; Mar. 12.
- Streun, John A., Sherman, Tex. Cotton separator. 1,720,702; July 16.
- Streun, John A., Sherman, Tex. Variable-speed operating mechanism for cotton cleaners. 1,727,734; Sept. 10.
- Streun, John A., assignor to Hardwicke-Etter Company, Sherman, Tex. Cotton-cleaning assembly. 1,721,932; July 23.
- Streun, Louis J., Bloomfield, N. J., assignor to Beaver Manufacturing Co., Inc. Electric appliance plug. Des. 78,318; Apr. 16.
- Strickland, David, Cleveland, Ohio, assignor to The American Equipment Company, Chicago, Ill. Brickmaking machine. 1,699,818; Jan. 22.
- Strickland, Royal F., Cleveland Heights, Ohio, assignor to General Electric Company. Method of and apparatus for making incandescent lamps and similar articles. 1,722,161; July 23.
- Strickler, John C., San Francisco, and O. Schwall, Berkeley, Calif. Loose-leaf binder. 1,697,374; Jan. 1.
- Strickler, Thomas J., Washington, D. C., assignor of one-half to C. D. Holden. Automatic carburetor control and manifold air inlet for automobile engines. 1,700,816; Feb. 5.
- Strid, Sven J., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Refrigerator-door-operating mechanism. 1,713,932; May 21.
- Strieby, Maurice E. (See Blackwell, O. B., and Strieby.)
- Strieby, Maurice E. (See Martin, W. H., and Strieby.)
- Strike-Em-Out Base Ball Inc. (See Turner, Robert C., assignor.)
- Strindlund, John, Tofte in Hurum, Norway, assignor to G. D. Jensen Company, New York, N. Y. Heat-exchange coil. 1,713,456; May 14.
- Stringer, Melvin, New York, N. Y. Band brake. 1,712,526; May 14.
- Stringer, William B., Cleburne, Tex. Stand. 1,719,146; July 2.



- Stringfellow, Henry A., assignor to The Biggs Boiler Works Company, Akron, Ohio. Pipe joint and making the same. 1,689,034; Jan. 8.
- Stringfellow, Rush O., Hollywood, Calif. Garter. 1,723,585; Aug. 6.
- Stringfield, William H., Philadelphia, Pa. Trouser-leg support. 1,697,617; Jan. 1.
- Stringham, John H., administrator. (See Stringham, John H.)
- Stringham, John H., deceased, assignor of one-third to C. H. Good, Jersey City, N. J.; J. H. Stringham, administrator. Transmission for motors or engines. 1,735,840; Nov. 12.
- Stripling, Julius A., Fort Dodge, Iowa. Plant protector. 1,739,426; Dec. 10.
- Stripling, Luke S., Burkburnett, Tex. Pump jack. 1,707,583; Apr. 2.
- Strite-Anderson Manufacturing Company. (See Strite, C. F., and Nordgren, assignors.)
- Strite, Charles F., Minneapolis, Minn. Bread toaster. 1,698,146; Jan. 8.
- Strite, Charles F., and A. Nordgren, Minneapolis, Minn., assignors to Strite-Anderson Manufacturing Company, Minneapolis. Juice extractor. 1,697,618; Jan. 1.
- Strite, Lloyd C., Minneapolis, Minn. Vaporizer. 1,723,093; Aug. 6.
- Stritter, Karl A., Nahant, Mass. Shoe. 1,713,307; May 14.
- Strnad, James E., Chicago, Ill. Scissors-sharpening device. 1,738,936; Dec. 10.
- Strobl, Hans, Berlin-Tempelhof, assignor, by mesne assignments, to Luftschiffbau Zeppelin G. m. b. H., Friedrichshafen, Bodensee, Germany. Manufacturing gas tight material. 1,709,499; Apr. 16.
- Stroble, Carl J. (See Caugherty, W. E., and Stroble.)
- Stroble, Ella, administratrix. (See Stroble, John.)
- Stroble, John, deceased, Seward, Kans.; E. Stroble, administratrix. Grain ventilator. 1,715,256; May 28.
- Strödtter, Karl, Bochum, Germany. Reciprocatory mechanism. 1,727,451; Sept. 10.
- Stroh, Emerson, Hume, Ill. Animal trap. 1,701,345; Feb. 5.
- Strom, Adolph O., Alameda, Calif. Removable glass light or lens for sidewalk, vault covers or the like. 1,723,634; Aug. 6.
- Strom, Arthur C. E., Detroit, Mich. Vaginal douche. 1,719,315; July 2.
- Strom, Carl, St. Catharines, Ontario, Canada. Window fastener. 1,721,750; July 23.
- Strom, Gustav, Pontiac, Mich. Wall construction. 1,713,789; May 21.
- Strom, Olaf S., Los Angeles, Calif., assignor to Pittsburgh Valve and Fittings Company, Barberton, Ohio. Bracket lighting fixture. Des. 77,509; Jan. 15.
- Strom, Olaf S., Los Angeles, Calif., assignor to Pittsburgh Valve and Fitting Company, Barberton, Ohio. Lighting fixture. Des. 77,510; Jan. 15.
- Strom, Olaf S., Los Angeles, Calif., assignor to Pittsburgh Valve and Fittings Company, Barberton, Ohio. Electric lantern. Des. 77,511; Jan. 15.
- Strom, Olaf S., Los Angeles, Calif., assignor to Pittsburgh Valve and Fittings Company, Barberton, Ohio. Electric wall bracket. Des. 77,512; Jan. 15.
- Strom, Olaf S., assignor to Solar Lighting Fixture Company, Los Angeles, Calif. Lighting-fixture ceiling unit and holder. Des. 78,665; May 28.
- Strom, Olaf S., assignor to Solar Lighting Fixture Company, Los Angeles, Calif. Electric-lighting-fixture bracket lantern. Des. 78,666; May 28.
- Strom, Olaf S., Los Angeles, Calif., assignor to Pittsburgh Valve and Fittings Company, Barberton, Ohio. Hanging lighting fixture. Des. 78,847; June 25.
- Strömberg, Anders E. A., assignor to Nya Aktiebolaget Galco, Stockholm, Sweden. Self-closing oil cut. 1,736,229; Nov. 19.
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Graham, Virgil M., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Knudsen, Caspar B., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Levis, John H., jr., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Olney, Benjamin, assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winifred T., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Worthington, Everett, assignor.)
- Stromberg Electric Company. (See Crook, Charles M., assignor.)
- Stromberg Electric Company. (See Crook, C. M., and Long, assignors.)
- Stromberg Electric Company. (See Denniston, A. L., and Ostler, assignors.)
- Strong Electric Company, The. (See Fox, Cecil M., assignor.)
- Strong Motor Devices Co. (See Chandler, Milton E., assignor.)
- Strong Motor Devices Company. (See Dienger, John A., assignor.)
- Strong Motor Devices Company. (See Mapel, Lewis A., assignor.)
- Strong Motor Devices Co. (See Welch, Horace H., assignor.)
- Stromberg Research Corporation. (See Knudsen, Karsten, assignor.)
- Stromeyer, Dietrich C., St. Louis, Mo. Portable crane. 1,736,102; Nov. 19.
- Strong, Carlisle and Hammond Company, The. (See Weitz, Jacob, assignor.)
- Strong, George F. (See Fischer, L. W., and Strong.)
- Strong, Leslie P., Lakewood, assignor to The Clark Mfg. Company, Cleveland, Ohio. Steam trap. 1,697,887; Jan. 8.
- Strong, Ralph S., Chicago, Ill. Carbureting device. 1,707,824; Apr. 2.
- Strong-Scott Manufacturing Company. (See Erickson, Marcus A., assignor.)
- Strong, William C. (See Schroeder, Paul P., assignor.)
- Strong, William E. S., assignor to W. P. Deppé, New York, N. Y. Carburetor. 1,711,292; Apr. 30.
- Strong, William E. S., New York, N. Y., and W. Dieter, Newark, N. J., assignors to E. W. Bliss Company, Brooklyn, N. Y. Lubricating system. 1,717,814; June 18.
- Strong, William J. H., Chicago, Ill. Rotorcraft. 1,725,316; Aug. 20.
- Strongson, Herman L., New York, N. Y. Shade stop. 1,706,261; Mar. 19.
- Strongson, Herman L., New York, N. Y. Shielded tube. 1,731,797; Oct. 15.
- Stroppel, George, administrator. (See Stroppel, Rudolf.)
- Stroppel, Rudolf, deceased, Cedar Rapids; G. Stroppel, administrator. Can capper. 1,704,227; Mar. 5.
- Strosacker, Charles J., and C. C. Schwesler, assignors to The Dow Chemical Company, Midland, Mich. Making chloracetic anhydride. 1,713,104; May 14.
- Stroschein, Edward, Oshkosh, Wis., assignor, by mesne assignments, to Prime Manufacturing Company, Inc., Sidney, Ohio. Washing-machine wringer release. 1,711,619; May 7.
- Strother, Robert H., Montclair, N. J., assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. 1,734,538; Nov. 5.
- Strotz, Carl G., St. Louis, Mo. Refrigerator latch. 1,741,546; Dec. 31.
- Stroud, Francis H., Seattle, Wash. Fuel pump and governor. 1,726,243; Aug. 27.
- Stroud, William. (See Barr, A., Stroud, and Macgill.)
- Stroud, William F., jr. (See Peterkin, A. G., jr., Stroud, and Chillas.)
- Stroup, George E., Homer Township, Ohio. Hay loader. 1,734,100; Nov. 5.
- Strout, Archibald H., Waterville, Me. Heating unit for motor vehicles. 1,704,873; Mar. 12.
- Strout, Robert W., assignor to E. W. Bliss Company, Brooklyn, N. Y. High-speed feed for sheet metal. 1,740,844; Dec. 24.
- Strowbridge, Frederick J., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Container. 1,739,266; Dec. 10.
- Struben, Arthur M. A., Redhill, England. Treatment of carbonaceous materials. 1,706,468; Mar. 26.
- Stubble, James F., Hutchinson, Kans. Shield for cook stoves. 1,735,806; Nov. 12.
- Struble, Roland G., Beulah, Mich. Engine. 1,721,358; July 16.
- Struck, Frank A., Everett, Wash. Gasoline filter. 1,704,847; Mar. 12.
- Structural Service Co. (See Trevellyan, V. B., and Smith, assignors.)
- Struebig, Louis J., assignor to Fulton Iron Works Company, St. Louis, Mo. Magnetic separator for cane-crushing machinery. 1,738,739; Dec. 10.
- Struensee, Louis C., Oshkosh, Wis. Hay distributor. 1,725,380; Aug. 20.
- Strufe, Otto, Dwight, Ill. Refrigerator and compartment device therefor. 1,704,113; Mar. 5.
- Strum, James A., Watertown, Mass. Building tire carcasses. 1,734,835; Nov. 5.
- Strunk, Joseph W., Somerset, Ky. Life-saving apparatus for use with submarines. 1,715,959; June 4.
- Strunz, Heinrich, Anreppen, near Dellbrück, Germany. Guard for leather leggings. 1,725,741; Aug. 20.
- Strupe, Cecil H., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Universal trap holder. 1,703,069; Feb. 19.
- Strupe, Cecil H., assignor to Leedy Manufacturing Company of Indianapolis, Indiana, Indianapolis, Ind. Snare strainer. 1,724,888; Aug. 13.
- Struthers, James A., assignor to Strutwear Knitting Company, Minneapolis, Minn. Stocking. Des. 78,367; Apr. 23.
- Struthers, James A., assignor to Strutwear Knitting Company, Minneapolis, Minn. Hosiery. Des. 78,848; June 25.
- Struthers-Wells-Titusville Corporation. (See Dillon, John T., assignor.)
- Struthers Wells-Titusville Corporation. (See O'Brien, Frederick J., assignor.)
- Strutwear Knitting Company. (See Struthers, James A., assignor.)
- Struve, Frederick E., Philadelphia, assignor to Textile Machine Works, Wyomissing, Pa. Yarn-conditioning mechanism. 1,724,230; Aug. 13.
- Stryker, Clinton E., Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Transformer unit. 1,704,546; Mar. 5.



- Stryker, Clinton E., Highland Park, and E. W. Lincoln, Chicago, assignors to Pansteel Products Company, Inc., North Chicago, Ill. Rectifier circuits. 1,729,753; Oct. 1.
- Stryker, Daniel, Brooklyn, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Lubricating oil. 1,732,780; Oct. 22.
- Stryker, George W., Los Angeles, Calif. Phenol-formaldehyde condensation product and making same. 1,737,031; Nov. 26.
- Strzyczkowski, Julian, New York, N. Y. Rope-splicing device. 1,738,331; Dec. 3.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,849; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End Frame for Bedsteads. Des. 78,850; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,851; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,852; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,853; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,854; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,855; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,856; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,857; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,858; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,859; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,860; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,861; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,862; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,863; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,864; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,865; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,866; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Bedstead end frame. Des. 78,867; June 25.
- Stuart, Charles A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. End frame for bedsteads. Des. 78,868; June 25.
- Stuart, Charles W., Chicago, Ill. Cleaning composition. 1,707,031; Mar. 26.
- Stuart, Clyde W., New York, N. Y. Cake and pie tin. 1,728,087; Sept. 10.
- Stuart, Elmer H., assignor to Eli Lilly and Company, Indianapolis, Ind. Optic nerve and retina extract and making it. 1,700,691; Jan. 29.
- Stuart, Frederick C., Joliet, Ill. Spring switch and locking means therefor. 1,703,254; Feb. 26.
- Stuart, Kenneth E., Merion, Pa., assignor to the Stuart Research Engineering Corporation, Newark, N. J. Method of and apparatus for compressing and expanding elastic fluids. 1,735,477; Nov. 12.
- Stuart, Ralph, Buffalo, N. Y., assignor to Straus Company, Richmond, Va. Border strip for a dish or similar article. Des. 78,172; Apr. 2.
- Stuart Research Engineering Corporation. (See Stuart, Kenneth E., assignor.)
- Stuart, Thomas F., and H. A. Moore, Los Angeles, Calif. Push catch for doors. 1,712,236; May 7.
- Stuart, Wallace A., Cleveland, Ohio, assignor to Inland-Stuart Linings, Inc. Blast furnace. Re17,325; June 11.
- Stull, William A., Oswego, N. Y. Eraser holder. 1,703,603; Feb. 26.
- Stuart y Molina, Julian, Habana, Cuba. Blind. 1,718,754; June 25.
- Stub, John, Darby, Pa. Excavator bucket. 1,708,597; Apr. 9.
- Stubblefield, John A., Bay City, assignor of one-half to A. E. Myers, Condon, Oreg. Valve construction. 1,742,107; Dec. 31.
- Stuber, Adolph, assignor to Eastman Kodak Company, Rochester, N. Y. Projector. 1,704,811; Mar. 12.
- Stubbers, Joseph, assignor to The Incandescent Light & Stove Company, Cincinnati, Ohio. Making terminal lugs. 1,717,276; June 11.
- Stubbs, Albert, Winsford, England, assignor to Westinghouse Electric & Manufacturing Company. Feed-water system. 1,727,948; Sept. 10.
- Stubbs, Horace. (See Stubbs, Walter and H.)
- Stubbs, Marie M., executrix. (See Stubbs, Robert C.)
- Stubbs, Robert C., deceased, Dallas, Tex.; M. M. Stubbs, executrix. Plastic compactor. 1,711,758; May 7.
- Stubbs, Robert E., Duluth, Minn. Drill-press table. 1,735,478; Nov. 12.
- Stubbs, Walter and H., Epping, New South Wales, Australia. Electric water heater of the nonstorage type. 1,725,683; Aug. 20.
- Stubbs, William A. (See Cleveland, A. W., and Morse, assignors.)
- Stuber & Kuck Co. (See Kuck, Henry G., assignor.)
- Stubnitz, Maurice, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Spring seat. 1,717,949; June 18.
- Stubnitz, Maurice, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Air-cushion seat and assembling the same. 1,729,559; Sept. 24.
- Stubnitz, Maurice, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Back cushion. 1,729,560; Sept. 24.
- Stueatur, Matthew, assignor to American Automatic Transmission Corporation, Philadelphia, Pa. Transmission and controlling mechanism therefor. 1,706,553; Mar. 26.
- Stuck, William R., Los Angeles, Calif. Gas lift. 1,731,688; Oct. 15.
- Stucke, George H. (See Klega, Edward A., assignor.)
- Stuckeman, William F., Pittsburgh, Pa. Method of and apparatus for casting wire terminals. 1,711,069; Apr. 30.
- Stuckey, Robert B., assignor to W. A. Riddell Company, Bucyrus, Ohio. Brake. 1,708,338; Apr. 9.
- Stuckey, Samuel G., East St. Louis, Ill. Impact control for glass feeders and forming machines and operating the same. 1,711,818; May 7.
- Stuckless, Frank G., Twillingate, Newfoundland. Automobile accessory. 1,726,004; Aug. 27.
- Studebaker Corporation, The. (See Bourgon, Joseph H., assignor.)
- Studebaker Corporation, The. (See Breneman, Paul E., assignor.)
- Studebaker Corporation, The. (See Breneman, P. E., and Bourgon, assignors.)
- Studebaker Corporation, The. (See Chanter, Arthur J., assignor.)
- Studebaker Corporation, The. (See Davenport, George R., assignor.)
- Studebaker Corporation, The. (See Harry, Earl L., assignor.)
- Studebaker Corporation, The. (See Hughes, James R., assignor.)
- Studebaker Corporation, The. (See James, William S., assignor.)
- Studebaker Corporation, The. (See Kohr, Robert F., assignor.)
- Studebaker Corporation, The. (See Link, Vincent, assignor.)
- Studebaker Corporation, The. (See Newcomb, E. C., and Reynolds, assignors.)
- Studebaker Corporation, The. (See Paton, Clyde R., assignor.)
- Studebaker Corporation, The. (See Pomeroy, Percy W., assignor.)
- Studebaker Corporation, The. (See Smith, Sydney, assignor.)
- Studebaker Corporation, The. (See Sprung, Edwin G., assignor.)
- Studebaker Corporation, The. (See Sullivan, Perry W., assignor.)
- Studebaker Corporation, The. (See Thorne, Maurice A., assignor.)
- Studebaker Corporation, The. (See Henry, Guy P., assignor.)
- Studevant, L. M. (See Waterworth, Robert J., assignor.)
- Studiengesellschaft fuer Wirtschaft u. Industrie m. b. H. (See Weckerle, Ferdinand, assignor.)
- Studler, Rene R., U. S. Army, Washington, D. C., and W. R. Bluehorn, Hartford, Conn. 1,713,723; May 21.
- Studwell, Earl W., Port Chester, N. Y. Tool. 1,724,435; Aug. 13.
- Stuebing-Cowan Company, The. (See Neal, Chester T., assignor.)
- Stuebing-Cowan Company, The. (See Stuebing, William, jr., assignor.)
- Stuebing, William, jr., assignor to The Stuebing-Cowan Company, Cincinnati, Ohio. Lifting truck. 1,706,194; Mar. 19.
- Stuesser, Konstantin, New Britain, Conn. Watch-glass cover for beakers. 1,738,804; Dec. 10.
- Stuewe, Max H., Montrose, Calif. Illuminated fountain. 1,728,456; Sept. 17.
- Stuhlmann, Hans C., Premnitz, Westhavelland, Germany. Spool for winding yarns, artificial silk, horsehair bands, and the like. 1,701,131; Feb. 5.
- Stukes, Horace A., San Antonio, Tex. Fuel-feeding device. 1,720,931; July 16.
- Stull, Charles E. (See Stull, John L. and C. E.)
- Stull, John L. and C. E., Carlisle, Ind. Scraper. 1,702,324; Feb. 19.



- Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Work-handling device for drilling machines. 1,701,644; Feb. 12.
- Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Rotary tool. 1,714,700; May 28.
- Stumpe, Walter F., assignor to The National Sporting Goods Manufacturing Company, St. Louis, Mo. Baseball glove. 1,725,426; Aug. 20.
- Stumpenhorst, John A., Wilkesburg, Pa., assignor to Duplex Transmission Company. Power-transmitting device for motor vehicles. 1,727,118; Sept. 3.
- Stumpf, Johann, Berlin, Germany. Heating and purifying feed water for locomotive boilers and the like. 1,699,998; Jan. 22.
- Stumpf, Walter, Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Portable power-driven rivet spinning and pressing tool. 1,702,750; Feb. 19.
- Stumpf, Walter, Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Trigger switch. 1,741,383; Dec. 31.
- Sturdy, William W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Alternating-current relay. 1,711,550; May 7.
- Sturdy's J. F., Sons Company. (See Eklund, George, assignor.)
- Sturdy's J. F., Sons Company. (See Nelson, Nels T., assignor.)
- Sturges, John E., Oakland, assignor to Rosenberg Bros. & Co., San Francisco, Calif. Fruit pitter. 1,725,223; Aug. 20.
- Sturges, John E., Berkeley, assignor to Rosenberg Bros. & Co., San Francisco, Calif. Prune-pitting process. 1,725,224; Aug. 20.
- Sturges, Robert C., Gloversville, N. Y. Child's automobile chair. 1,723,899; Aug. 6.
- Sturgess, John, Glendale, Calif., and M. Haeberlein, Maplewood, N. J., assignors to Worthington Pump and Machinery Corporation, New York, N. Y. Sealing ring. 1,716,870; June 11.
- Sturgis, Carl L., Brockton, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Hinge last. 1,705,594; Mar. 19.
- Sturm, Enoch E., assignor of one-half to O. O. Sturm, Parkersburg, W. Va. Furniture polish. 1,739,332; Dec. 10.
- Sturm, Francis X., assignor to The Glove Corporation, Alexandria, Ind. Glove. 1,699,495; Jan. 15.
- Sturm, Ony O. (See Sturm, Enoch E., assignor.)
- Stürner, Otto, Berlin, Germany, assignor to General Electric Company. Low-capacity switch. 1,721,420; July 16.
- Sturner, Otto, Berlin-Schöneberg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Inductance device. 1,735,141; Nov. 12.
- Sturupp, Robert B., et al. (See Plimpton, Samuel J., assignor.)
- Sturtevant, B. F., Company. (See Allen, George W., assignor.)
- Sturtevant, B. F., Company. (See Allen, G. W., and Bentley, assignors.)
- Sturtevant, B. F., Company. (See Bentley, Oliver D. H., assignor.)
- Sturtevant, B. F., Company. (See Buck, Lucien, assignor.)
- Sturtevant, B. F., Company. (See Goldthwaite, George R., assignor.)
- Sturtevant, B. F., Company. (See Morton, Harry E., assignor.)
- Sturtevant Mill Company. (See Doyle, William T., assignor.)
- Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air separator. 1,703,833; Feb. 26.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air separator. 1,735,479; Nov. 12.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Ring-roll mill. 1,739,487; Dec. 10.
- Stusak, Louie, Cedar Rapids, Iowa. Adjustable chair. 1,725,427; Aug. 20.
- Stusak, Louie, Cedar Rapids, Iowa. Furniture press. 1,733,284; Oct. 29.
- Stuthridge, James H., and T. M. Hack, Johannesburg, Transvaal, South Africa. Making fluid-tight joints around rotating shafts and the like. 1,738,619; Dec. 10.
- Stuver, Henry W., Denver, Colo. Engine. 1,718,088; June 18.
- Styberg, Ernest C., Racine, Wis., assignor to The Stover Signal Engineering Company, Milwaukee, Wis. Casing for an ice-cream freezer. Des. 79,949; Nov. 19.
- Styer, Charles A. (See Rodman, C. J., and Styer.)
- Styles, Asa J., Esmond, N. Dak. Aircraft-control mechanism. 1,736,230; Nov. 19.
- Styll, Harry H., assignor to American Optical Company, Southbridge, Mass. Lens holder for trial frames. 1,730,392; Oct. 8.
- Styslinger, Leo J., assignor to Auto Truck Equipment Company, Pittsburgh, Pa. Truck body. 1,708,639; Apr. 9.
- Suarez y Bernal, Tomas, San Juan, P. R. Reel for cables and wire. 1,726,137; Aug. 27.
- Süßgrüb, Franz, Hamburg, Germany. Paddle wheel for steamers. 1,713,406; May 14.
- Subkow, Philip, assignor to Union Oil Company of California, Los Angeles, Calif. Automatic fluid-pressure pump. 1,740,793; Dec. 24.
- Submarine Signal Company. (See Dorsey, Herbert G., assignor.)
- Submarine Signal Corporation. (See Clement, Ivan C., assignor.)
- Submarine Signal Corporation. (See Williams, Robert L., assignor.)
- Suchy, Robert. (See Jaeger, M., Moschel, and Suchy.)
- Suchy, Robert. (See Pistor, G. Lang, and Suchy.)
- Suck, Henry, Roslindale, Mass. Concealed fastener for doors, panels, and the like. 1,709,500; Apr. 16.
- Suckfield, George A., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Door-supporting mechanism. 1,699,860; Jan. 22.
- Sucek, Robert. (See Boerner, Arno, assignor.)
- Suda, Roman, Katowice, Poland. Paper-punching device. 1,732,954; Oct. 22.
- Suddath, Richard D. (See Savage, Roy R., assignor.)
- Sudds, Harry W., Butler, Pa. Trap. 1,727,083; Sept. 3.
- Sudduth, James M., Pierre, S. Dak. Pastry mixer. 1,697,837; Jan. 1.
- Sudek, Joseph, Jr., East Paterson, N. J. Hawk. 1,737,274; Nov. 26.
- Sudek, Joseph, Jr., East Paterson, N. J. Handle member for tools. 1,737,275; Nov. 26.
- Sudzki, Tomitaro, Tokyo-fu, Japan. Fireproof shutter. 1,707,287; Apr. 2.
- Suekert, Harold C., assignor to himself and F. J. Kent, New York, N. Y. Power steering mechanism. 1,711,662; May 7.
- Suekoff, Louis A., assignor of one-half to F. A. Nachman, Chicago, Ill. Mattress and cushion. 1,700,339; Jan. 29.
- Suenderhauf, Oscar L. (See Orr, Samuel A., assignor.)
- Suffern, S. Julien, assignor to Ramapo Finishing Corporation, Sloatsburg, N. Y. Decorating fabric and products. 1,701,197; Feb. 5.
- Sugar Beet and Crop Driers Limited. (See Owen, Brynar J., assignor.)
- Sugden, Bertha, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Colloidal suspension treatment. 1,735,142; Nov. 12.
- Sugden, James, Company. (See Maloon, Frederick V., assignor.)
- Suhr, Charles L., and W. S. Zehrung, assignors to The Pennzoil Company, Oil City, Pa. Removing cloud-forming materials from hydrocarbon oil. 1,737,737; Dec. 3.
- Suida, Hermann, Modling, near Vienna, Austria. Recovery of concentrated acetic acid. 1,697,738; Jan. 1.
- Suida, Hermann, Modling, near Vienna, Austria. Concentrating acetic acid. 1,703,020; Feb. 19.
- Suida, Hermann, Modling, near Vienna, Austria. Distillation and vapor phase extraction of volatile substances. 1,715,313; May 28.
- Suida, Hermann, Modling, Austria, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Obtaining gases rich in ethylene. 1,726,048; Aug. 27.
- Suits, George A., Medford, Mass. Polishing device. 1,719,280; July 2.
- Suits, Seymour, Philadelphia, Pa. Reflector for headlights. 1,709,960; Apr. 23.
- Sulak, Anton G., Seattle, Wash. Toothbrush holder. 1,716,842; June 11.
- Sulger, René, New York, N. Y. Wrench. 1,709,378; Apr. 16.
- Sullenger, Joe W., Fresno, Calif. Front-wheel construction. 1,721,606; July 23.
- Sulligros Patents Limited. (See Sullivan, Sidney, assignor.)
- Sullivan, Albert V. (See Clark, F., and Sullivan.)
- Sullivan, Charles A., Detroit, Mich. Wheel. 1,736,279; Nov. 19.
- Sullivan, Charles W. (See Adams, A. C., and Sullivan.)
- Sullivan, Christopher J., Juneau, Alaska. Fisherman's kit. 1,725,684; Aug. 20.
- Sullivan, Daniel J., Charleston, W. Va. Paint sprayer. 1,710,903; Apr. 30.
- Sullivan, Elizabeth C., Philadelphia, Pa. Combined cooking and sterilizing utensil. 1,726,199; Aug. 27.
- Sullivan, Frederick W., Jr., W. J. McGill, and H. L. Walker, assignors to Standard Oil Company, Whiting, Ind. Pressing wax containing oil. 1,720,300; July 8.
- Sullivan, Frederick W., Jr., assignor to Standard Oil Company, Whiting, Ind. Manufacture of high-melting-point wax. 1,740,125; Dec. 17.
- Sullivan, Gerald D., assignor to The Cole Folding Box Company, Akron, Ohio. Folding box. 1,714,471; May 21.
- Sullivan, James J., Brooklyn, N. Y. Printer's frame. 1,700,990; Feb. 5.
- Sullivan, James J., Brooklyn, N. Y. Printer's frame. 1,701,513; Feb. 12.
- Sullivan, James J., Arapahoe County, Colo. Package for toilet and like articles and fastening means therefor. 1,702,622; Feb. 19.
- Sullivan, Jeremiah A., Brooklyn, N. Y. Guard for window poles. 1,728,515; Sept. 17.



- Sullivan, John L., Oakland, Calif. Furring and fastening device. 1,703,557; Feb. 26.
- Sullivan, John M., assignor to Wrought Iron Range Company, St. Louis, Mo. Apparatus for enameling. 1,710,953; Apr. 30.
- Sullivan, Joseph O., Merchantville, N. J. Luminous sign. 1,721,534; July 23.
- Sullivan, Louis C., and R. E. Mullen, Des Moines, Iowa. Spring compressor. 1,714,113; May 21.
- Sullivan Machinery Company. (See Cartledge, Frank, assignor.)
- Sullivan Machinery Company. (See Ferguson, Alexander D., assignor.)
- Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
- Sullivan Machinery Company. (See Gilman, George H., assignor.)
- Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)
- Sullivan Machinery Company. (See Hathaway, Edward A., assignor.)
- Sullivan Machinery Company. (See Hofstra, Wiebe S., assignor.)
- Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
- Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
- Sullivan Machinery Company. (See Hoy, Austin Y., assignor.)
- Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
- Sullivan Machinery Company. (See MacVicar, John A., assignor.)
- Sullivan Machinery Company. (See Marston, Howard, assignor.)
- Sullivan Machinery Company. (See Martin, Robert E. C., assignor.)
- Sullivan Machinery Company. (See Maxson, Louis A., assignor.)
- Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
- Sullivan Machinery Company. (See Miller, Edward E., assignor.)
- Sullivan Machinery Company. (See Nelson, Sven T., assignor.)
- Sullivan Machinery Company. (See Officer, Charles B., assignor.)
- Sullivan Machinery Company. (See Officer, Thomas, assignor.)
- Sullivan Machinery Company. (See Oliphant, John, assignor.)
- Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
- Sullivan Machinery Company. (See Osgood, Robert C., assignor.)
- Sullivan Machinery Company. (See Rimmer, G., and Hoy, assignors.)
- Sullivan Machinery Company. (See Rundqvist, Thore R. E., assignor.)
- Sullivan Machinery Company. (See Stephens, Thomas M., assignor.)
- Sullivan Machinery Company. (See Weiner, Rudolph S., assignor.)
- Sullivan Machinery Company. (See Whinnen, Eugene, assignor.)
- Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
- Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
- Sullivan Machinery Corporation. (See Bartelson, John L., assignor.)
- Sullivan Machinery Corporation. (See Hall, Edwin T., assignor.)
- Sullivan, Michael E., administrator. (See Sullivan, Michael E.)
- Sullivan, Perry W., assignor to The Studebaker Corporation, South Bend, Ind. Door construction. 1,697,517; Jan. 1.
- Sullivan, Ralph R., Oakland, Calif., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Screw driver. 1,741,349; Dec. 31.
- Sullivan, Raymond H., assignor to North East Electric Company, Rochester, N. Y. Condenser. 1,726,774; Sept. 3.
- Sullivan, Sidney, assignor to Sulligros Patents Limited, Hounslow, England. Fastener for wearing apparel. 1,713,567; May 21.
- Sullivan, Verne L., Rockville Center, N. Y. Releasable window-supporting device. 1,711,975; May 7.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture and sound-record film. 1,717,815; June 18.
- Sulzer Freres Societe Anonyme. (See Ferguson, George, assignor.)
- Sulzer Freres Société Anonyme. (See Hoppler, Hans, assignor.)
- Sulzer Frères Société Anonyme. (See Schaefer, Charles, assignor.)
- Sulzer Frères Société Anonyme. (See Von Salis, Eduard, assignor.)
- Sulzer Frères Société Anonyme. (See Wirth-Frey, Elias W., assignor.)
- Summerbell, William. (See Westervelt, W. I., and Summerbell.)
- Summerhayes, Henry R. Schenectady, N. Y., assignor to General Electric Company. Three-phase transformer. 1,722,181; July 23.
- Summerhayes, William K., Jr., Louisville, Ky. Display bracket. 1,733,246; Oct. 29.
- Summers, Caleb E., assignor to General Motors Research Corporation, Dayton, Ohio. Engine-fuel vaporizer. 1,697,795; Jan. 1.
- Summers, Calib E., and F. H. Hartzell, Dayton, Ohio. Thermostatic regulator. 1,700,210; Jan. 29.
- Summers, Caleb E., assignor to General Motors Research Corporation, Detroit, Mich. Vibration-insulating mounting. 1,701,396; Feb. 5.
- Summers, Caleb E., assignor to General Motors Research Corporation, Dayton, Ohio. Indicator. 1,711,001; Apr. 30.
- Summers, Caleb E., assignor to General Motors Research Corporation, Detroit, Mich. Oil rectifier. 1,712,944; May 14.
- Summers, Frank E., near Memphis, Mo. Electric valve. 1,733,519; Oct. 29.
- Summers, George T., Frederic, Wis. Timepiece. 1,715,521; June 4.
- Summers, George T., Woodland, Calif. Dump-bed hoist for trucks. 1,726,723; Sept. 3.
- Summers, Gilbert L., Nottingham, England, assignor to Wilcox & Gibbs Sewing Machine Co. New York, N. Y. Sewing-machine presser foot. 1,732,665; Oct. 22.
- Summers, James R., Los Angeles, Calif. Attachment for laterally-swinging awning arms. 1,717,898; June 18.
- Summers, Leslie T., Dallas, Tex. Combination merchandise display and cooling case. 1,697,294; Jan. 1.
- Summers, Leslie T., Dallas, Tex. Meat cooling and dispensing case. 1,701,019; Feb. 5.
- Summers, Leslie T., Dallas, Tex. Vegetable-dispensing case. 1,718,263; June 25.
- Summers, Louis D., assignor to Leader Iron Works, Decatur, Ill. Automatic heat control and by-pass damper. 1,711,365; Apr. 30.
- Summers, Otto M. (See Kunkle, B. D., and Summers.)
- Summers, Otto M., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,724,051; Aug. 13.
- Summers, Otto M., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Forming pipe loops. 1,732,343; Oct. 22.
- Summers, Roy W. R., Fort Worth, Tex. Apparatus for lining bearings. 1,717,950; June 18.
- Summey, Alexander B., E. F. Allison, and T. O. Summey, Hillsboro, N. C. Attachment for spinning machines. 1,734,539; Nov. 5.
- Summey, David L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Heating furnace. 1,732,916; Oct. 22.
- Summey, David L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Electric furnace. 1,732,917; Oct. 22.
- Summey, David L., Waterbury, Conn. Metal-coiling apparatus. 1,739,620; Dec. 17.
- Summey, Thomas O. (See Summey, A. B., Allison, and Summey.)
- Summit Thread Company. (See Corthell, Robert N., assignor.)
- Summit Thread Company. (See Ham, Robert L., assignor.)
- Summy, Charles F., Sutter, Calif. Automobile shock absorber. 1,706,195; Mar. 19.
- Sumner, Arthur D., Los Angeles, Calif., assignor to Continental Can Company, Inc., New York, N. Y. Slitter cutter. 1,727,798; Sept. 10.
- Sumner, George P. (See Miller, H. C., and Sumner.)
- Sumner, James W. (See Rayburn, A. G., and Sumner.)
- Sumner, James W. et al. (See Rayburn, Elwyn M. and A. G., assignors.)
- Sumner, James W. and A. G. Rayburn, Los Angeles, assignors to E. Winship, San Francisco, Calif. Drive axle. 1,712,057; May 7.
- Sumner, May, executrix. (See Miller, H. C., and Sumner.)
- Sumrall, James E., Hico, Tex. Churn dasher. 1,739,427; Dec. 10.
- Sunbeam Electric Manufacturing Company. (See Jones, Earl W. and L. B., and Battin, assignors.)
- Sunbeam Electric Manufacturing Company. (See Jones, Lee B., assignor.)
- Sunbeam Electric Manufacturing Company. (See Jones, L. B., and Battin, assignors.)
- Sunbeam Electric Manufacturing Company. (See Jones, Lee B., Jones, and Battin, assignors.)
- Sunbeam Electric Manufacturing Company. (See Richard, W. E., and Schroeder, assignors.)
- Sunday, James J., assignor to Standard Tube & Manufacturing Company, Detroit, Mich. Automobile heater. 1,723,312; Aug. 6.
- Sunday, James J., assignor to Standard Tube & Manufacturing Company, Detroit, Mich. Exhaust-gas heater. 1,737,394; Nov. 26.
- Sunday, James J., Detroit, Mich., assignor, by mesne assignments, to Kelch Ventilating Heater Company. Heater for automobiles. 1,738,850; Dec. 10.
- Sundback, Gideon, Meadville, assignor to Hookless Fastener Company, Meadville, Pa. Separable-fastener-locking device. 1,734,750; Nov. 5.
- Sunde, Louis T. (See Span, A. A., and Sunde.)
- Sunde, Ole A. (See Span, A. A., and Sunde.)



- Sundel, Samuel, New Haven, Conn., assignor of one-half to L. Lauter, New York, N. Y. Keyhole plug for cylinder locks. 1,728,310; Sept. 17.
- Sunder, Charles. (See Bader, M., Sunder, and Voltz.)
- Sünder, Jakob, and E. Renno, assignors to Adrain & Busch, Oberursel, Germany. Shoe-sewing machine. 1,706,756; Mar. 26.
- Sundin, John P., Salem, Oreg. Ironing table. 1,714,932; May 28.
- Sundock, Philip, assignor, by mesne assignments, to L. Gordon, Brooklyn, N. Y. Sanitary toilet-seat-cover dispenser. 1,741,798; Dec. 31.
- Sundstrand Corporation. (See Sundstrand, Oscar J., assignor.)
- Sundstrand Engineering Company. (See Sundstrand, Gustaf D., assignor.)
- Sundstrand, Gustaf D., assignor, by mesne assignments, to Sundstrand Machine Tool Co., Rockford, Ill. Milling machine. 1,697,698; Jan. 1.
- Sundstrand, Gustaf D., assignor, by mesne assignments, to Sundstrand Machine Tool Co., Rockford, Ill. Grinding machine. 1,717,899; June 18.
- Sundstrand, Gustaf D., assignor, by mesne assignments, to Sundstrand Machine Tool Co., Rockford, Ill. Milling machine. 1,734,308; Nov. 5.
- Sundstrand, Gustaf D., assignor to Sundstrand Engineering Company, Rockford, Ill. Automatic oil burner. 1,735,911; Nov. 19.
- Sundstrand, Gustaf D., assignor to Sundstrand Engineering Company, Rockford, Ill. Safety control device. 1,736,141; Nov. 19.
- Sundstrand, Gustaf D., assignor, by mesne assignments, to Sundstrand Engineering Company, Rockford, Ill. Oil burner and control therefor. 1,736,420; Nov. 19.
- Sundstrand Machine Tool Co. (See De Vlies, Charles B., assignor.)
- Sundstrand Machine Tool Co. (See Sundstrand, Gustaf D., assignor.)
- Sundstrand, Oscar J., Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del. Adding and listing machine. 1,705,272; Mar. 12.
- Sundstrand, Oscar J., Rockford, Ill., assignor by mesne assignments, to Sundstrand Corporation, Wilmington, Del. Paper supporting and feeding means. 1,708,284; Apr. 9.
- Sundstrand, Oscar J., Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del. Adding and recording machine. 1,724,231; Aug. 13.
- Sundstrand, Oscar J., Rockford, Ill., assignor, by mesne assignments, to The Sundstrand Corporation, Wilmington, Del. Cash register. 1,726,775; Sept. 3.
- Sundstrom, Gustaf I., Rochester, assignor to Shur-On Standard Optical Company, Inc., Geneva, N. Y. Nose bridge for spectacles. Des. 79,577; Oct. 8.
- Sun-Goods Corporation. (See Rosen, Martin, assignor.)
- Sunland Sales Cooperative Association. (See Harkness, Frank V., assignor.)
- Sunland Sales Cooperative Association. (See Pitts, Edmund M., assignor.)
- Sunleaf, Arthur W., assignor to Burgess-Norton Mfg. Co., Geneva, Ill. Ball bearing. 1,720,703; July 16.
- Sun-Maid Raisin Growers of California. (See Forrest, T. W. W., and Smith, assignors.)
- Sun-Maid Raisin Growers of California. (See Ripley, David W., assignor.)
- Sunnen, Joseph, St. Louis, Mo. Spring compressor. 1,720,802; July 16.
- Sunnen, Joseph, St. Louis, Mo. Valve-spring clip and manufacturing same. 1,736,231; Nov. 19.
- Sun Oil Company. (See Courtenay, William A., jr., assignor.)
- Sun Oil Company. (See Maitland, Harold T., assignor.)
- Sun Oil Company. (See Pew, Arthur E., jr., assignor.)
- Sun Oil Company. (See Pew, A. E., jr., and Thomas, assignors.)
- Sun Rise Lamp Mfg. Co. (See Hecht, Leo, assignor.)
- Sun Rise Lamp Mfg. Co. (See Zweig, Louis, assignor.)
- Sun Rubber Company, The. (See Lower, Melvin S., assignor.)
- Sunseri, Francesco. (See Arrigo, F., jr., and Sunseri.)
- Sunshine Incorporated. (See Finklestein, Everett L., assignor.)
- Sun Tube Corporation, The. (See Lynch, Frank J., assignor.)
- Sunvold, Herman H., Sacred Heart, Minn. Clip comb. 1,702,283; Feb. 19.
- Super-Ball Antenna Co. (See Colburn, Beal E., assignor.)
- Super, Edward H., Nampa, Idaho. Portable power drive for diestocks and cutters. 1,727,084; Sept. 3.
- Superheater Company, The. (See Aisberg, Julius, assignor.)
- Superheater Company, The. (See Averill, E. A., and Griffin, assignors.)
- Superheater Company, The. (See Broido, Benjamin, assignor.)
- Superheater Company, The. (See Broido, Benjamin N., assignor.)
- Superheater Company, The. (See Griffin, Joseph F., assignor.)
- Superheater Company, The. (See Jackson, Thomas F., assignor.)
- Superheater Company, The. (See Keithley, Ernest C., assignor.)
- Superheater Company, The. (See Miller, Charles J., assignor.)
- Superheater Company, The. (See Rawson, Emanuel, assignor.)
- Superheater Company, The. (See Starr, Adolph, assignor.)
- Superheater Company, The. (See Stein, E. R., and Volland, assignors.)
- Superior Brass & Mfg. Co. (See Wheeler, John L., assignor.)
- Superior Engine Company. (See Opferkuck, Emil, assignor.)
- Superior Engineering Company. (See Dwyer, Thomas F., jr., assignor.)
- Superior Hat Company. (See Wittcoff, Edward, assignor.)
- Superior Linking Machine Corporation. (See Fleming, August L. N., assignor.)
- Superior Piston Ring Company. (See Hellman, Ernest R., assignor.)
- Superior Specialty & Mfg. Co. (See Freud, Joseph, assignor.)
- Superior Switchboard & Devices Company, The. (See Sparkes, Harry P., assignor.)
- Superlative Novelty Co., The. (See Klein, James J., assignor.)
- Superluid Manufacturing Company. (See Levy, Arthur M., assignor.)
- Super Mould Company, The. (See Smith, F. L., Caulfield, and Peterson, assignors.)
- Super-Refined Metals Corporation. (See Hall, James A., assignor.)
- Super Safety Switch Co. (See Luther, Martin P., assignor.)
- Supervielle, Pablo, Habana, Cuba. Sanitary drink mixer. 1,735,143; Nov. 12.
- Supper, Andro. (See Havlicek, Frank, assignor.)
- Supplitt, George H., Chicago, Ill. Telephone cabinet. Des. 77,865; Feb. 26.
- Surdam, Jesse F., and G. J. Brown, Pontiac, Mich. Anti-freezing sill cock. 1,715,314; May 28.
- Surdam, Wallace, Holbrook, Ariz. Distributing conveyer. 1,729,600; Sept. 24.
- Surface Combustion Company, The. (See Hepburn, William M., assignor.)
- Surface Combustion Company, The. (See Hepburn, W. M., and Weaver, assignors.)
- Surface Combustion Company, The. (See Heyn, Henry M., assignor.)
- Surface Combustion Company, The. (See Keith, George, assignor.)
- Surface Combustion Company, The. (See Manker, Forrest W., assignor.)
- Surface Combustion Company, The. (See Vaughn, Sidney P., assignor.)
- Surface Combustion Company, The. (See Winder, Frank J., assignor.)
- Surico, Carmine, and P. Cardone, assignors to Clermont Machine Co., Inc., New York, N. Y. Machine for folding noodles. 1,706,637; Mar. 26.
- Surico, Carmine, and P. Cardone, assignors to Clermont Machine Co., Inc., New York, N. Y. Machine for folding noodles. 1,711,431; Apr. 30.
- Surpluss, Arthur R., Chicago, Ill. Power-applying device. 1,706,864; Mar. 26.
- Surprenant, George. (See Grosberg, W., and Surprenant.)
- Surprenant, Oscar J., and H. B. Bachrach, Schenectady, N. Y. Combined rail anchor and tie plate. 1,720,578; July 9.
- Susio, Joseph, Lewis Run, Pa. Coupler. 1,704,638; Mar. 5.
- Susquehanna Silk Mills. (See Bunting, James H., assignor.)
- Sussman, Maxwell H., Kew Gardens, N. Y., assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio. Chuck for tubing machines. 1,697,739; Jan. 1.
- Sussman, Wormser & Company. (See Steinwand, Otto J., assignor.)
- Sutcliffe, Arthur G., and J. C. Novak, jr., assignors to Ilg Electric Ventilating Company, Chicago, Ill. Air circulating device. 1,696,982; Jan. 1.
- Sutcliffe, Harry L. (See Fister, B. V., and Sutcliffe.)
- Sutcliffe, Harry L. (See Whelan, James, assignor.)
- Sutcliffe, Tom, London, England. Closure for bottles, jars, and the like receptacles. 1,699,410; Jan. 15.
- Suter, Eugène F., New York, N. Y., assignor to Eugene, Ltd. Hair drying. 1,720,301; July 9.
- Suter, Eugène F., New York, N. Y., assignor to Eugene, Ltd. Hair drying. 1,720,302; July 9.
- Suter, Philipp, Baden, Switzerland. Centrifugal switch. 1,722,117; July 23.
- Suter, Philipp, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Fan construction. 1,712,527; May 14.
- Sutlin, Willard A., South Euclid, Ohio. Sprinkler head. 1,738,332; Dec. 3.
- Sutherland, Alexander C., Whakatane, New Zealand. Flexible harrow. 1,712,483; May 14.
- Sutherland, Alexander K., assignor to Moe-Bridges Company, Milwaukee, Wis. Shade holder. 1,704,024; Mar. 5.
- Sutherland, Alexander K., assignor to Moe-Bridges Company, Milwaukee, Wis. Stemless canopy. 1,709,288; Apr. 16.



- Sutherland, Alexander K., assignor to Moe-Bridges Company, Milwaukee, Wis. Lighting fixture. 1,720,303; July 9.
- Sutherland, Alexander K., assignor to Moe-Bridges Company, Milwaukee, Wis. Shade holder. 1,741,547; Dec. 31.
- Sutherland, Donald W., jr., Sioux Falls, S. Dak. Acidity-testing machine. 1,700,655; Jan. 29.
- Sutherland, Eril, assignor to Twin Coupler Company, Inc., Poughkeepsie, N. Y. Pocket lighter. Des. 78,545; May 14.
- Sutherland, Forrest A., assignor to Great Northern Paper Company, Millinocket, Me. Guard for paper-winding machine. 1,719,344; July 2.
- Sutherland, John G., Oakwood, Ohio. Tire cover. 1,712,590; May 14.
- Sutherland, Ralph R., Los Angeles, Calif. Commercial wagon. Des. 79,395; Sept. 10.
- Sutherland, Robert F. (See Hooper, C. L., and Sutherland.)
- Sutherland, William T., Chicago, Ill. Tire cover. 1,734,540; Nov. 5.
- Sutherland, Lee, and H. M. Freeman, East Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Tube device. 1,740,481; Dec. 24.
- Sutinen, John, Two Harbors, Minn. Railroad tie. 1,697,935; Jan. 8.
- Sutinen, John, Two Harbors, Minn. Rail brace. 1,715,434; June 4.
- Suto, Rozalia, Martins Ferry, Ohio. Closure for bedding. 1,710,520; Apr. 23.
- Sutter, Amanda L., Jersey City, N. J. Hair waver. 1,700,771; Feb. 5.
- Sutter, Carl G. A. Pettit, and E. R. Norman, New Orleans, La., assignors to said G. A. Pettit. Lubricating system. 1,736,058; Nov. 19.
- Sutter, Roger B., Newark, N. J. Acoustic insulation. 1,703,558; Feb. 26.
- Sutton, Arthur M., Rocky Mount, N. C. Lamp for boilers. 1,702,179; Feb. 12.
- Sutton, Edward F., Salt Lake City, Utah. Beet harvester. 1,727,140; Sept. 3.
- Sutton, George A., Pontiac, Mich., assignor to Tire Pop Valve Company. Tire pop valve. 1,732,918; Oct. 22.
- Sutton, George W., Menasha, Wis. Pintle retainer. 1,734,057; Nov. 5.
- Sutton, George W., Menasha, Wis. Sliding furniture shoe. 1,734,058; Nov. 5.
- Sutton, Harry G., Syracuse, assignor to The Zeidler Corporation, New York, N. Y. Garment press. 1,705,547; Mar. 19.
- Sutton, Henry M., and W. L. and E. G. Steele, Dallas, Tex. Process and apparatus for the dry separation of masses of materials. 1,699,382; Jan. 15.
- Sutton, Henry M. and Walter L., and E. G. Steele, Dallas, Tex. Apparatus for the separation of dry materials. 1,705,342; Mar. 12.
- Sutton, Henry M., and W. L. and E. G. Steele, Dallas, Tex. Process and apparatus for the separation of dry materials. 1,710,521; Apr. 23.
- Sutton, James A. (See Carnie, J. A., and Sutton.)
- Sutton, Robert C., Wyncote, Pa. Bed. 1,719,677; July 2.
- Sutton, William P., Seminole, assignor to Indian Territory Illuminating Oil Company, Bartlesville, Okla. Guard for protecting couplings of well tubings. 1,736,178; Nov. 19.
- Sűsz, Edmund. (See Sűsz, Samuel, jr., and E.)
- Sűsz, Samuel, jr., and E., Budapest, Hungary. Siphon head with bayonet joints. 1,717,277; June 11.
- Suydam, John R., jr., Southboro, Mass. Chart-exhibiting apparatus. 1,711,070; Apr. 30.
- Svec, Charles, La Porte, Ind. Stop-signal device. 1,704,774; Mar. 12.
- Svensen, Robert T., and D. G. Chandler, Minneapolis, Minn. Propeller mounting. 1,735,660; Nov. 12.
- Svendsgaard, John, Erhard, Minn. Brush cutter. 1,710,749; Apr. 30.
- Svendsgaard, Sverre R., Tekoa, Wash. Display case. 1,732,173; Oct. 15.
- Svonn, Alfred, and A. Soderholm, Chicago, Ill. Electric heating element for hot-water bottles. 1,727,913; Sept. 10.
- Svenska Ackumulator Aktiebolaget Jungner. (See Levin, Allan, assignor.)
- Svenska Aktiebolaget Bromsregulator. (See Djurson, Axel R. K., assignor.)
- Svenson, Johan V., Stockholm, Sweden. Petroleum-vaporizer cooking stove. 1,724,534; Aug. 13.
- Svenson, Johan V., Augustendal, Stockholm, Sweden. Burner for liquid fuel. 1,730,097; Oct. 1.
- Svensson, Olof P., Brooklyn, N. Y. Waterproof container. 1,712,680; May 14.
- Svensson, Oskar, Daglosen, Sweden. Carburetor for internal-combustion engines. 1,732,666; Oct. 22.
- Sviageninov, Ivan G., New York, N. Y. Chassis of a caster attachment for trunks. 1,697,619; Jan. 1.
- Swab, Jay G., assignor to H. Trenchard, jr., Brooklyn, N. Y. Flap-turning mechanism. 1,713,243; May 14.
- Swader, Francis D., near Bearden, Okla. Merry-go-round. 1,718,718; June 25.
- Swaim, Cecil R., Indianapolis, Ind. Making drawings, cuts for printing, etc., and apparatus therefor. 1,721,933; July 23.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Metallic wheel and demountable rim. 1,697,796; Jan. 1.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Demountable rim. 1,697,797; Jan. 1.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Wheel structure. 1,718,611; June 25.
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Wheel structure. 1,718,612; June 25.
- Swain, Mack M., Los Angeles, Calif. Pedal cover. 1,706,003; Mar. 19.
- Swain, Raymond A. (See Beebe, M. C., Herlinger, and Swain.)
- Swalinkavich, Joseph E., jr., St. Cloud, Minn. Circuit breaker for ignition systems. 1,739,874; Dec. 17.
- Swallow, Gerald, assignor to Diamond State Fibre Company, Bridgeport, Pa. Insulation of contact rails of electric railways. 1,707,150; Mar. 26.
- Swan, Harold A., Coronado, Calif. Portable sanding machine. 1,707,584; Apr. 2.
- Swan, Harold A., Coronado, Calif. Abrading and polishing tool. 1,723,821; Aug. 6.
- Swan, Harry L., Milbank, S. Dak. Cigarette-making device. 1,725,768; Aug. 27.
- Swan, John J., Montclair, N. J. Telephone. 1,700,553; Jan. 29.
- Swan, John J., Montclair, N. J., assignor to Simplex Gold Stamping Press Co. Inc., New York, N. Y. Embossing machine. 1,730,984; Oct. 8.
- Swan Metallic Seal & Cap Company. (See Tevander, Swan N., assignor.)
- Swan, William B., Seymour, Conn. Display board. 1,725,225; Aug. 20.
- Swanberg, Floyd L. (See Scoville, Eugene M., assignor.)
- Swanberg Manufacturing Company. (See Keeran, Charles R., assignor.)
- Swanfeldt, Andrew, Los Angeles, Calif. Sun-bath cabinet. 1,734,505; Nov. 5.
- Swangren, Edwin V., Maywood, assignor of one-half to W. M. Stevenson, Evanston, Ill. Machine for bending wire. 1,711,160; Apr. 30.
- Swank, Arthur L., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. 1,734,923; Nov. 5.
- Swank, Arthur L., assignor to Long Manufacturing Company, Detroit, Mich. Radiator reinforcement. 1,735,807; Nov. 12.
- Swann, George B., Louisville, Ky. Printing plate and block. 1,715,214; May 28.
- Swanner, R. P., et al. (See Davis, Charles S., assignor.)
- Swanson, Arlo W., Alcester, S. Dak. Snow-handling machine. 1,716,390; June 11.
- Swanson, Arthur W., Los Angeles, Calif. Connecting means for straps. 1,702,855; Feb. 19.
- Swanson, Bror J., Rockford, Ill. Bed-rail fastener. 1,699,256; Jan. 15.
- Swanson, Carl A., Alden, Pa. Mousetrap. 1,716,196; June 4.
- Swanson, Charles A., Brea, Calif. Standing-valve organization. 1,703,371; Feb. 26.
- Swanson, Charles J., assignor of one-seventh to E. G. Sampson, one-seventh to F. C. Herby, one-seventh to G. R. Thoren, one-seventh to L. H. A. Johnson, one-seventh to O. J. Larson, and one-seventh to C. E. Backus, Jamestown, N. Y. Partition construction. 1,706,469; Mar. 26.
- Swanson, Charles J., assignor of one-seventh to E. G. Sampson, one-seventh to F. C. Herby, one-seventh to G. R. Thoren, one-seventh to L. H. A. Johnson, one-seventh to O. J. Larson, and one-seventh to C. E. Backus, Jamestown, N. Y. Partition construction. 1,706,470; Mar. 26.
- Swanson, Charles J., assignor of one-seventh to E. G. Sampson, one-seventh to F. C. Herby, one-seventh to G. R. Thoren, one-seventh to L. H. A. Johnson, one-seventh to O. J. Larson, and one-seventh to C. E. Backus, Jamestown, N. Y. Partition construction. 1,726,595; Sept. 3.
- Swanson, Charles J., assignor of one-seventh to E. G. Sampson, one-seventh to F. C. Herby, one-seventh to G. R. Thoren, one-seventh to L. H. A. Johnson, one-seventh to O. J. Larson, and one-seventh to C. E. Backus, Jamestown, N. Y. Partition construction. 1,726,596; Sept. 3.
- Swanson Earl R., Oak Park, assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,720,976; July 16.
- Swanson, Elmer J. S., assignor to Erie Malleable Iron Company, Erie, Pa. Attaching device for outlet boxes. 1,708,978; Apr. 16.
- Swanson, Elmer J. S., assignor to Erie Malleable Iron Company, Erie, Pa. Attaching device for outlet boxes. 1,738,973; Dec. 10.
- Swanson, Enoch A., Stromsburg, Nebr. Door fastener. 1,713,407; May 14.
- Swanson, Ernest R. (See Jones, C. H., and Swanson.)
- Swanson, Hans J., Chicago, Ill. Level and plumb. 1,705,425; Mar. 12.
- Swanson, Harry, Reno, Nev. Hoist for motor vehicles. 1,714,644; May 28.
- Swanson, Harry J., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinder. Re17,311; May 28.



- Swanson, Harry J., assignor to General Sales Company, Detroit, Mich. Locomotive-rod-pin lubricator. 1,701,645; Feb. 12.
- Swanson, Hugo R., Brooklyn, assignor to Triangle Kapok Machine Corporation, New York, N. Y. Fiber-treating machine. 1,704,714; Mar. 12.
- Swanson, John R., Rock Island, Ill. Automatic boiler-feed return apparatus. 1,704,926; Mar. 12.
- Swanson, Leonard H., Moline, Ill. Air compressor. 1,736,469; Nov. 19.
- Swanson, Peter, Ely, Minn. Switch target. 1,731,029; Oct. 8.
- Swanson, Swan A. (See Post, A. H., and Swanson.)
- Swanson, William F. (See Swanson, William O. and W. F.)
- Swanson, William O. and W. F., Neosho, Mo. Automatic trailer brake. 1,725,548; Aug. 20.
- Sward, John E., San Anselmo, Calif. Automatic weather strip. 1,709,419; Apr. 16.
- Swarens, Chester A., et al. (See Hobson, John H., assignor.)
- Swars, Paul G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Section insulator. 1,705,689; Mar. 19.
- Swart, George R., Hackensack, N. J., and H. Ehlig, Pearl River, assignors, by mesne assignments, to Dexter Folder Company, New York, N. Y. Sheet feeder. 1,721,608; July 23.
- Swartley, Harry M., Roxborough, Pa. Weighing device. 1,734,751; Nov. 5.
- Swartwout Company, The. (See Barrett, Joseph M., assignor.)
- Swartwout, Everett W., White Plains, N. Y. Electric train system. 1,710,826; Apr. 23.
- Swartz, Charles C., assignor to H. M. Swartz, South Norwalk, Conn. Floating coupling. 1,721,060; July 16.
- Swartz, Guy E., Detroit, Mich. Adjustable work-contacting means for jigs. 1,721,648; July 23.
- Swartz, Helen M. (See Swartz, Charles C., assignor.)
- Swartz, Horrence A., and W. P. Uhler, Tottenville, N. Y. Electric resistance material. 1,734,309; Nov. 5.
- Swartz, Howard W., Galesburg, Ill. Bathroom fixture. 1,742,050; Dec. 31.
- Swartz, James R., Indianapolis, Ind. Nailing device. 1,713,725; May 21.
- Swartzbaugh Manufacturing Company, The. (See Ziola, Henry A., assignor.)
- Swayne-Robinson & Co. (See Smith, George L., assignor.)
- Swearengin, Luther S., Wyandotte County, Kans. Fire-door construction. 1,724,052; Aug. 13.
- Swearengin, Luther S., Wyandotte County, Kans. Door-latch construction. 1,724,116; Aug. 13.
- Swearengin, Thomas L., Danville, Ky. Automatic lock. 1,719,678; July 2.
- Sweatt, Harold W., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Heat-regulating device. 1,732,174; Oct. 15.
- Swebilius, Carl G., New Haven, Conn. Repeating firearm. 1,702,063; Feb. 12.
- Swedblom, Emil, Cascade, Mont. Sweep hayrake attachment. 1,717,278; June 11.
- Sweeney, Andrew J., Bayonne, N. J. Apparatus for refrigerating by absorption. 1,710,438; Apr. 23.
- Sweeney, Harry C., Brooklyn, assignor to Jacques Sampson, Inc., New York, N. Y. Physical-exercising apparatus. 1,734,238; Nov. 5.
- Sweeney, James A., Providence, R. I. Ophthalmic mounting. Des. 80,193; Dec. 24.
- Sweeney, James M., Lewis Run, Pa. Device for automatically setting train brakes. 1,720,103; July 9.
- Sweeney, John M. (See Topping, Frank A., assignor.)
- Sweeney, Orland R., Ames, Iowa, assignor to Ward-Love Pump Corporation, Rockford, Ill. Semiautomatic water softener. 1,698,743; Jan. 15.
- Sweeney, Orland R., Ames, Iowa, assignor to Ward-Love Pump Corporation, Rockford, Ill. Water-softener brine tank. 1,736,890; Nov. 26.
- Sweeney, Walter A., et al., trustees. (See Cole, George W., assignor.)
- Sweeney, William J., East Orange, N. J. Poster. 1,706,596; Mar. 26.
- Sweeny, Arthur C., Tulsa, Okla. Oil vaporizer. 1,725,111; Aug. 20.
- Sweeny, Robert P., Greenville, S. C. Pneumatic cleaning apparatus. 1,724,625; Aug. 13.
- Sweet, Charles S., Hubbard Woods, Ill. Sleeping-car berth. 1,699,768; Jan. 22.
- Sweet, Clifford I., Sterling, assignor to Apex Stamping Company, Chicago, Ill. Builder set. 1,707,691; Apr. 2.
- Sweet, Donald H. (See King, Augustus S., assignor.)
- Sweet, John A., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Apparatus for drawing glass. 1,698,378; Jan. 8.
- Sweet, Laurence A., assignor, by mesne assignments, to Ada W. Langford, Los Angeles, Calif. Radiator cap. 1,724,978; Aug. 20.
- Sweet, Melvin A., and G. W. Britton, assignors to Type Registering Scale Company, Limited, Hamilton, Ontario, Canada. Dial scale printing device. 1,719,281; July 2.
- Sweeting, Fred, Plainville, Mass., assignor to Whiting & Davis Company. Mesh machine. 1,728,639; Sept. 17.
- Sweetland, Ernest J. (See Greenhalgh, George H., assignor.)
- Sweetland, Ernest J., Hazleton, Pa. Filtering oil in the lubricating system of an internal-combustion engine. 1,699,680; Jan. 22.
- Sweetland, Ernest J., Hazleton, Pa. Renewable filter unit for internal-combustion-engine lubrication systems. 1,718,390; June 25.
- Sweetland, Ernest J., Hazleton, Pa. Dispensing machine. 1,731,798; Oct. 15.
- Sweetland, Ernest J., Hazleton, Pa., assignor to Oliver United Filters, Inc., San Francisco, Calif. Thickener. 1,724,436; Aug. 13.
- Sweetland, Ernest J., Hazleton, Pa., assignor to United Filters Corporation, New York, N. Y. Filter. 1,734,652; Nov. 5.
- Sweetland, William H. (See Rittenhouse, W., and Sweetland.)
- Sweetman, Edward C., Toledo, Ohio. Traffic-control apparatus. 1,721,286; July 16.
- Sweetman, Ernest B. (See Privett, Henry C., assignor.)
- Swezey, William C. (See Weber, Henry E., assignor.)
- Sweitzer, Henry G., Detroit, Mich. Radiator wall shield. 1,734,924; Nov. 5.
- Swendeman, Joseph E., Boston Mass. Spraying apparatus. 1,732,955; Oct. 22.
- Swendsén, David L., Norrköping, Sweden. Device for threading the points of screw blanks. 1,705,319; Mar. 12.
- Swendsén, David L., Norrköping, Sweden. Arrangement for manufacturing of screws. 1,718,498; June 25.
- Sweeney, Harry K., Evansville, Wyo. Conduit coupling. 1,739,472; Dec. 10.
- Swenson, Carl A., Springfield, Ill. Automatic printing continuous-strip machine. 1,711,333; Apr. 30.
- Swenson, Carl A., assignor to Greenlee Bros. & Co., Rockford, Ill. Expansive bit. 1,727,452; Sept. 10.
- Swenson, Carl T., Milwaukee, Wis. Trace connector. 1,723,094; Aug. 6.
- Swenson, Charles O., Minneapolis, Minn. Holder for flashlights or similar articles. 1,718,316; June 25.
- Swenson Evaporator Company. (See Sadtler, Philip B., assignor.)
- Swenson, Frank J., Brooklyn, assignor to Foster Wheeler Corporation, New York, N. Y. Heat-transfer apparatus. 1,725,549; Aug. 20.
- Swenson, George E., Hastings-on-Hudson, N. Y., assignor to the Barrett Company. Lathing for stucco. 1,731,067; Oct. 8.
- Swenson, Gus L., Colville, Wash. Force-feed seed-treating machine. 1,713,568; May 21.
- Swenson, John A., et al. (See Jobe, James I., assignor.)
- Swenson, Stanley, Stockholm, Wis. Battery post. 1,716,197; June 4.
- Swern, William E., Kokomo, Ind. Forming drum tires. 1,741,208; Dec. 31.
- Swift, Charles E., West Roxbury, assignor to United States Envelope Company, Springfield, Mass. Treatment of transparent material. 1,712,178; May 7.
- Swezey, Burdette S. (See Watson, E. F., and Swezey.)
- Swezey, Burdette S., Bayside, N. Y., assignor to American Telephone and Telegraph Company. Printing-telegraph system. 1,712,528; May 14.
- Swezey, William F., Dayton, Ohio, assignor, by mesne assignments, to Fridaire Corporation. Refrigerating apparatus. 1,718,317; June 25.
- Swift & Company. (See Covey, John E., assignor.)
- Swift & Company. (See Fredericks, George, assignor.)
- Swift & Company. (See Hansen, Otto C., assignor.)
- Swift & Company. (See McDonald, William, assignor.)
- Swift & Company. (See O'Brien, Thomas, assignor.)
- Swift & Company. (See Parsons, Clinton H., assignor.)
- Swift & Company. (See Richardson, William D., assignor.)
- Swift & Company et al. (See Richardson, W. D., and Newton, assignors.)
- Swift & Company. (See Smith, Paul C., assignor.)
- Swift & Company. (See Smith, P. C., and Agar, assignors.)
- Swift & Company. (See Walter, Charles T., assignor.)
- Swift & Company. (See Watson, Martin A., assignor.)
- Swift, Edward W., assignor to Muscogee Manufacturing Company, Columbus, Ga. Slack-washing machine. 1,713,408; May 14.
- Swift, Edwin J., New Rochelle, assignor of one-half to C. R. Redgrave, New York, N. Y. Photograph or corner mount. 1,741,350; Dec. 31.
- Swift, George W., Jr., Inc. (See Swift, George W., Jr., assignor.)
- Swift, George W., Jr., Bordentown, N. J. Machine for making filler flats for packing cases. 1,719,947; July 9.
- Swift, George W., Jr., assignor to George W. Swift Jr., Inc., Bordentown, N. J. Box-blank-trimming machine. 1,706,366; Mar. 19.
- Swift, James H., Huntington Park, and L. Dalldorf, Southgate, Calif. Bit. 1,726,049; Aug. 27.
- Swift, Robert W., Warren, Ohio. Commutator short-circuit device. 1,709,415; Apr. 16.
- Swim, Lowell C., Modesto, Calif. Dispensing-bag unit. 1,717,900; June 18.
- Swim, Lowell C., G. H. Olivas, and L. O. Brewer, Modesto, Calif. Weed cutter. 1,711,033; Apr. 30.
- Swindell, Edward H., and F. W. Brooke, assignors to William Swindell & Bros., Pittsburgh, Pa. Furnace and operating the same. 1,741,209; Dec. 31.
- Swindell, William, & Brothers. (See Brooke, Frank W., assignor.)



- Swindell, William, & Bros. (See Swindell, E. H., and Brooke, assignors.)
- Swindell, William E., East Orange, N. J., assignor to Marinello Company, New York, N. Y. Bottle. Des. 78,949; July 9.
- Swindler, Robert M., Ottawa, assignor of one-half to W. T. Ure, Florence, Kans. Shield buckle. 1,740,047; Dec. 17.
- Swing, Alfred J. (See McLaughlin, W. F., and Swing.)
- Swingle, Charles M., Cleveland, Ohio, assignor to Eva-Mae Swingle and M. E. Swingle. Suspension for vehicles. 1,735,852; Dec. 10.
- Swingle, Eva-Mae et al. (See Swingle, Charles M., assignor.)
- Swingle, Mildred E., et al. (See Swingle, Charles M., assignor.)
- Swingspout Measure Co. (See Allen, S. E., and Wiswell, assignor.)
- Swinne, Richard, Steglitz, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electromagnetic body. 1,725,026; Aug. 20.
- Swinney Brothers Limited. (See Thompson, Herbert A., assignor.)
- Swint, Ida S., Pickens, W. Va. Animal trap. 1,726,167; Aug. 27.
- Swisdal, Lloyd M. (See Laughlin, J. sr., and Swisdal.)
- Swope, Charles W., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-drawing apparatus. 1,701,165; Feb. 5.
- Swope, Leslie M., and J. C. Zulauf, assignors to Odend'Hall-Monks Corporation, Norfolk, Va. Expansion-joint strip. 1,709,692; Apr. 16.
- Swoyer, Fred, Silver Grove, Ky. Auxiliary tank for motor vehicles. 1,739,333; Dec. 10.
- Swoyer, Stewart S., Los Angeles, Calif. Theatrical trick-performing platform. 1,708,159; Apr. 9.
- Sybert, James H. (See Moore, C. B., and Sybert.)
- Sydenstricker, Cecil W., et al. (See Coffman, Samuel M., assignor.)
- Sydney, Ernest, London, assignor to James Robinson & Sons (Romiley) Limited, Romiley, England. Means applicable for use in the steaming of hats. 1,720,978; July 16.
- Sydney, Minatojo, Boston, Mass. Beater. 1,718,989; July 2.
- Sydow, Hermann, St. Louis, Mo. Furnace stoker. 1,705,548; Mar. 19.
- Sykes, Adrian F., New Barnet, England. Reproducing and recording of sound. 1,711,551; May 7.
- Sykes, Gerald B. (See Maas, W. A., and Sykes.)
- Sykes, Hubert W. (See Hix, C. H., jr., and Sykes.)
- Sykes, Leonard, and M. Zent, Fort Wayne, Ind. Manufacture of horns. 1,733,247; Oct. 29.
- Sykes, Lloyd, Alliance, Ohio. Curtain bracket. 1,699,999; Jan. 22.
- Sykes, William E., Buffalo, N. Y. Flexible shaft coupling. 1,717,816; June 18.
- Sykes, William E., Buffalo, N. Y. Making flexible couplings. 1,717,817; June 18.
- Sylphon Fulton Company, The. (See Giesler, J. V., and Hinshaw, assignors.)
- Sylva, John J. (See Chichester, O. F., and Sylva.)
- Sylva, Margaret B., Chicago, Ill. Hair waver. 1,722,714; July 30.
- Sylvan, Johannes B., Columbia, S. C. Fraternal charm or similar article. Des. 77,376; Jan. 1.
- Sylvester, Aaron. (See Sylvester, Ralph W. and A.)
- Sylvester, Louis G. (See Smith, Winfield D., assignor.)
- Sylvester, Ralph W. and A., Indianapolis, Ind. Automobile bumper. 1,715,577; June 4.
- Sylvia, Joseph A., Alameda, Calif. Calliope. 1,725,025; Aug. 20.
- Symes, Walter, Manchester, and R. Gayter, Timperley, England, assignors to Westinghouse Electric and Manufacturing Company. Planing machine. 1,697,150; Jan. 1.
- Symington Company, The. (See Barrows, Donald S., assignor.)
- Symington Company, The. (See Barrows, D. S., and Kadel, assignors.)
- Symington Company, The. (See Bradford, Edwin L., assignor.)
- Symington Company, The. (See Couch, Glenn F., assignor.)
- Symington Company, The. (See Drenning, Percy R., assignor.)
- Symington Company, The. (See Hankins, Cyrus, assignor.)
- Symington Company, The. (See Kadel, Byers W., assignor.)
- Symington Company, The. (See Martin, Mark H., assignor.)
- Symington Company, The. (See Richards, Willard F., assignor.)
- Symington Company, The. (See Smith, Harold K., assignor.)
- Symington, T. H., & Son, Inc. (See Drenning, Percy R., assignor.)
- Symington, T. H., and Son, Inc. (See Martin, Mark H., assignor.)
- Symington, T. H., and Son, Inc. (See Symington, Thomas H., assignor.)
- Symington, Thomas H., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Shock-absorbing bolster. 1,712,908; May 14.
- Symington, Thomas H., assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Card-door-locking device. 1,716,332; June 4.
- Symonds, Edward O., Surbiton, assignor to Creed & Company Limited, Telegraph Works, Croydon, England. Telegraphic and other electrically-operated device. 1,712,739; May 14.
- Symons, Arthur H., assignor to Symons Clamp & Mfg. Company, Chicago, Ill. Form clamp. 1,704,307; Mar. 5.
- Symons, Arthur H., assignor to Symons Clamp & Mfg. Company, Chicago, Ill. Column clamp. 1,726,776; Sept. 3.
- Symons Clamp & Mfg. Company. (See Symons, Arthur H., assignor.)
- Synck, Henry, assignor to The New Idea Spreader Company, Coldwater, Ohio. Manure spreader. 1,698,896; Jan. 15.
- Synck, Henry, assignor to The New Idea Spreader Company, Coldwater, Ohio. Manure spreader. 1,698,897; Jan. 15.
- Synovetz, Michael, Clifton, N. J. Man's sock. 1,733,761; Oct. 29.
- Synthetic Ammonia & Nitrates Limited. (See Burstall, Aubrey F., assignor.)
- Syphrit, Samuel T., Racine, Wis., assignor to A. J. Carter, Chicago, Ill. Television apparatus. 1,735,553; Nov. 12.
- Syracuse Industrial Gas Company. (See Henderson, Nelson H., assignor.)
- Syracuse Ornamental Company. (See Holstein, Adolph M., assignor.)
- Syracuse Washing Machine Corporation. (See Cartwright, Burr, assignor.)
- Syracuse Washing Machine Corporation. (See Derschug, John N., assignor.)
- Syracuse Washing Machine Corporation. (See Hill, Hermann, assignor.)
- Syracuse Washing Machine Corporation. (See Nelson, J. C., and Geldhof, assignors.)
- Syrkin, Mashe. (See Okrainetz, L., and Syrkin.)
- Syvetsen, Harald, assignor to S. Morgan Smith Company, Inc., York, Pa. Plate-steel speed ring for hydraulic turbines. 1,741,254; Dec. 31.
- Syvud, Thomas K., deceased, Mount Horeb, Wis.; J. Fossage, administrator. Hinge construction. 1,703,969; Mar. 5.
- Szabo, Alexis, Cluj, Rumania, assignor of one-fourth to J. Schobel, New York, N. Y. Color-printing machine. 1,699,929; Jan. 22.
- Szakacs, Miklos. (See Zorgo, Desider, assignor.)
- Szako, John, Inwood, N. Y. Rolling screen. 1,716,285; June 4.
- Szakvary, Selma E., New York, N. Y. Garment. 1,717,474; June 18.
- Szalardi, Adalbert. (See Spiegel, W., and Szalardi.)
- Szalkay, Charles K. (See Albright, Ralph D., assignor.)
- Szantay, Daniel. (See Drake, W., and Szantay.)
- Százaz, John, Herschel, Saskatchewan, Canada. Pipe. 1,706,262; Mar. 19.
- Szarka, Alexander, Roebing, N. J., and A. Palfy, Budapest, Hungary. Safety envelope. 1,715,177; May 28.
- Szarka, August, Barberton, Ohio. Water heater. 1,728,017; Sept. 10.
- Szegvári, Andrew. (See Klein, P., and Szegvári.)
- Szekely, Otto E., Holland, Mich. Support for washing machines. 1,736,949; Nov. 26.
- Szekely, Otto E., Holland, Mich. Washing machine. 1,723,314; Aug. 6.
- Szekely, Otto E., Moline, and E. O. Holmgren, Rock Island, Ill. Washing machine. 1,723,313; Aug. 6.
- Szekeress, Alexander, Trenton, N. J. Repair sole for rubber boots or shoes. 1,723,217; Aug. 6.
- Szeliga, Anton, assignor of one-half to F. Tichy, New York, N. Y. Safety attachment for moving-picture apparatus. 1,733,433; Oct. 29.
- Szepe, Joseph J., Pittsburgh, Pa., assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple-driving apparatus. 1,709,756; Apr. 16.
- Sziborr, August, Rehfeldt, near Berlin, assignors to the Firm: J. Brüning & Sohn Aktien-Gesellschaft, Potsdam, near Berlin, Germany. Machine for uniting veneer plates. 1,720,803; July 16.
- Szilagyi, Julius, New York, N. Y. Chicken brooder. 1,740,277; Dec. 17.
- Szilard, Bertrand, Paris, France. Polishing and grinding material. 1,704,308; Mar. 5.
- Szilard, Leo, Berlin, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Discharge tube. 1,697,210; Jan. 1.
- Szilard, Leo, Berlin-Dahlem, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Discharge tube. 1,715,874; June 4.
- Szőke, Stefan, assignor of one-half to J. Kralicek, Levoca, Czechoslovakia. Safety device for street cars and the like. 1,720,977; July 16.
- Sztogryn, John, Newark, N. J. Laundry boiler attachment. 1,706,969; Mar. 26.
- Sztydlowski, Josef, Baden-Baden, Germany. Driving mechanism for internal-combustion engines. 1,736,639; Nov. 19.
- Szymanski, John H., Anderson, Tex. Antiskid-chain hook. 1,708,911; Apr. 9.



- Szymanski, Michael A., Jacksonville, Fla. Airship. 1,729,020; Sept. 24.
- Szymanski, Michael A., Warsaw, Poland. Airplane. 1,713,933; May 21.
- Szymanski, Stanley, Jersey City, N. J. Jewelry box. 1,738,333; Dec. 3.
- Szymarski, Vincent, Detroit, Mich. Tire-rim lock. 1,704,490; Mar. 5.
- T. & L. Co., The. (See Steljes, Fred D., assignor.)
- Taafe, Thomas, and R. O. Welch, Portland, Ore.; said Welch assignor to said Taafe. Mileage indicator. 1,741,255; Dec. 31.
- Taber, Frederic H., New Bedford, Mass. Collar or like garment part and making the same. 1,720,771; July 16.
- Taber, George H., jr., Rye, assignor to Sinclair Refining Company, New York, N. Y. Manufacturing of lubricating oil. 1,698,076; Jan. 8.
- Taber, George H., jr., Rye, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,705,077; Mar. 12.
- Taber Pump Company. (See Traudt, William F., assignor.)
- Taber, Ralph F., North Tonawanda, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Method of and machine for making index tubes. 1,738,334; Dec. 3.
- Tabern, Donalee L. (See Volwiler, E. H., and Tabern.)
- Tabler, Harry C., assignor to American Heater Corporation, St. Louis, Mo. Gas burner. 1,722,066; July 23.
- Tabler, Herbert K., Colmar, Ill. Gate. 1,707,373; Apr. 2.
- Tabor Manufacturing Company, The. (See Lewis, Wilfred, assignor.)
- Tabor Manufacturing Company, The. (See Ramsden, John T., assignor.)
- Tabor Manufacturing Company, The. (See Wallace, Frank R., assignor.)
- Tabulating Machine Company, The. (See Bryce, James W., assignor.)
- Tabulating Machine Company, The. (See Bryce, J. W., and Mills, assignors.)
- Tabulating Machine Company, The. (See Carroll, Fred M., assignor.)
- Tabulating Machine Company, The. (See Clairis, Louis J., assignor.)
- Tabulating Machine Company, The. (See Ford, Eugene A., assignor.)
- Tabulating Machine Company, The. (See Kleckler, Harry, assignor.)
- Tabulating Machine Company, The. (See Schaeff, John T., assignor.)
- Tacchella, Adolf, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Injection apparatus for combustion engines, etc. 1,721,888; July 25.
- Tacconi, Guido, Florence, Italy. Carburetor. 1,716,988; June 11.
- Tackaberry, Robert D., Lewiston, Me. Filter. 1,715,435; June 4.
- Taco Heaters Incorporated. (See Blanding, Robert L., assignor.)
- "Taco" Kraftfahrzeug-Werkstätten G. m. b. H. (See Taufenbach V., and Greiner, assignors.)
- Tacoma, Johannes, and C. de Vleeschouwer, Amsterdam, Netherlands. Display rack or tray. 1,707,180; Mar. 26.
- Tadakuma, Seizi, Los Angeles, Calif. Automaton doll. 1,732,197; Oct. 15.
- Taddeo, Luigi, Cleveland, Ohio. Equalizing device for brakes. 1,715,796; June 4.
- Taddeo, Luigi, Cleveland, Ohio. Equalizing device for brakes. 1,715,797; June 4.
- Taddiken, Ulrich A., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condensing apparatus. 1,721,287; July 16.
- Taecker, August T., Brawley, Calif. Air cleaner for internal-combustion engines. 1,722,689; July 30.
- Taft, John A., assignor to P. M. Clark, Cincinnati, Ohio. Cotton-baling process. 1,733,434; Oct. 29.
- Taggart, Arthur F., Scarsdale, N. Y. Seat system. 1,714,645; May 28.
- Taggart, Charles. (See Dorwin, C. W., and Taggart.)
- Taggart, Frank D., Youngstown, Ohio. Chilled-roll alloy. 1,707,332; Apr. 2.
- Tagliang, Lucy, Hoboken, N. J. Combination crib and play pen. 1,737,276; Nov. 26.
- Tagliabue, Charles J., Mfg. Co. (See Bast, Frank J., assignor.)
- Tainton, Uryln C., Kellogg, Idaho. Electrolytic precipitation of metals. 1,739,772; Dec. 17.
- Taisey, Fred R., Lowell, Mass., assignor to The Lamson Company, Syracuse, N. Y. Central-station apparatus. 1,730,832; Oct. 8.
- Tait, Norman R., Whataututu, New Zealand. Pen-nib-ejecting means. 1,709,416; Apr. 16.
- Taiyo Trading Co. (See Kondo, Roku, assignor.)
- Takacs, Julius, South Bend, Ind. Eyeglass shield. 1,706,682; Mar. 26.
- Takahashi, Mitsuye, Honolulu, Hawaii. Cigarette machine. 1,739,334; Dec. 10.
- Takahashi, Tatsumi, Higashi-Ku, Osaka, Japan. Apparatus for measuring the period of reciprocating bodies. 1,733,078; Oct. 22.
- Takamine Corporation. (See Thompson, Olof, assignor.)
- Takamine Ferment Company. (See Takamine, Jokichi, jr., assignor.)
- Takamine, Jokichi, jr., Clifton, N. J., assignor to Takamine Ferment Company, New York, N. Y. Diastatic composition and making the same. 1,731,400; Oct. 15.
- Takei, Sankichi, assignor to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Producing a liquid insecticide containing effective ingredient of derris species. 1,724,626; Aug. 13.
- Talalay, Josef, and W. Holzberg, Berlin, Germany, assignors to F. Pfeffer, New York, N. Y. Cleaning compound. 1,735,480; Nov. 12.
- Talbert, Leighton O., Washington, D. C. Hinge structure. 1,704,351; Mar. 5.
- Talbot, Benjamin, Middlesbrough, England. Metallurgical furnace. 1,716,391; June 11.
- Talbot, Benjamin, Middlesbrough, England. Metallurgical furnace. 1,729,230; Sept. 24.
- Talbot, Benjamin, North Allerton, England, assignor to Talbot Non-Corrosive Linings Company, Philadelphia, Pa. Coated article and making same. 1,737,033; Nov. 26.
- Talbot, Elmer R., Chicago, Ill. Waffle iron. 1,737,620; Dec. 3.
- Talbot, Ernest, Lowestoft, England. Piston for use in fluid-pressure engines. 1,699,819; Jan. 22.
- Talbot Non-Corrosive Linings Company. (See Talbot, Benjamin, assignor.)
- Talbot, Philip H., Portland, Me. Bouquet holder and dress protector. 1,725,490; Aug. 20.
- Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Track shifter. 1,733,520; Oct. 29.
- Talcott, Morton C., East Hartford, assignor to The Billings & Spencer Company, Hartford, Conn. Drop hammer. 1,707,499; Apr. 2.
- Taliaferro, Thomas L. (See Dewey, B., and Taliaferro.)
- Taliaferro, Thomas L., Chicago, Ill. Closure for jars. 1,740,881; Dec. 24.
- Taliaferro, Thomas L., assignor to Phoenix-Hermetic Company, Chicago, Ill. Sealing band for jars. 1,715,723; June 4.
- Taliaferro, Thomas L., assignor to Phoenix-Hermetic Company, Chicago, Ill. Liner for jars. 1,739,530; Dec. 17.
- Talisman, Samuel, San Bernardino, Calif. Paper clip. 1,734,653; Nov. 5.
- Tallberg, Valentine Y. (See Sewell, H. J., and Tallberg.)
- Talleg, Guido, Rome, Italy. Mixed airship provided with parachute. 1,712,529; May 14.
- Tallmadge, Andrew P., assignor of one-half to W. R. Garrett, Washington, D. C. Floor waxer. 1,712,681; May 14.
- Tallman, Russell W. (See Andres, Edward M., assignor.)
- Tallman, Russell W. (See Andres, E. M., and Tallman.)
- Tallman, Wilson J., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt or strap and method of forming the same. 1,705,790; Mar. 19.
- Talnoper, David. (See Kaplan, M., and Talnoper.)
- Taman, John A., et al. (See Saltiel, Johnatheon T., assignor.)
- Taman, Osborne J., et al. (See Saltiel, Johnatheon T., assignor.)
- Tamblyn, Milton J., assignor to The Osborn-Crew Manufacturing Company, Cleveland, Ohio. Pulley. 1,724,809; Aug. 13.
- Tamboritz Manufacturing Company. (See Franic, Adolph, assignor.)
- Tamneo, Aldo, assignor of one-half to E. Caminada, Genoa, Italy. Wing-structure-varying device for aeroplanes. 1,738,463; Dec. 3.
- Tamony, Peter J., et al. (See Bailey, Harlow, jr., assignor.)
- Tampier, René J. C., Boulogne-sur-Seine, France. Level-indicating tank hopper. 1,725,027; Aug. 20.
- Tamsitt, George W. (See Quick, C. F., and Tamsitt.)
- Tanasso, Vincent, New York, and J. J. Pomeranz, Brooklyn, N. Y. Nose bridge for a spectacle frame. Des. 77,793; Feb. 19.
- Tanasso, Vincent, New York, N. Y. Nose bridge for eyeglass frames. Des. 78,130; Mar. 26.
- Tanasso, Vincent, New York, and J. J. Pomeranz, Brooklyn, N. Y. Nose bridge for a spectacle frame. Des. 78,131; Mar. 26.
- Tanasso, Vincent, New York, and J. J. Pomeranz, Brooklyn, N. Y. Lens clip or similar article. Des. 78,594; May 21.
- Tancill, Grace, St. Louis, Mo. Dress. Des. 77,443; Jan. 8.
- Tancredi, Anthony A., Long Island City, N. Y. Clamp draw gun. 1,717,073; June 11.
- Tandberg, John G. (See Munsters, C. G., and Tandberg.)
- Tandberg, John G., Lund, assignor to Aktiebolaget Carba, Stockholm, Sweden. Control. 1,741,120; Dec. 24.
- Tandberg, John G., Lund, Sweden, assignor to Electrolux Servel, Refrigerant. 1,734,278; Nov. 5.
- Tandel, Fritz, assignor to C. G. Haubold Aktiengesellschaft, Chemnitz, Germany. Mechanism for guiding traveling webs. 1,739,993; Dec. 17.
- Tangard, Einar, Revere, Mass. Eaves-trough hanger. 1,701,087; Feb. 5.
- Tangeman, Edwin W., Madison, S. Dak. Loading chute. 1,739,335; Dec. 10.
- Tangerman, William J., Hammond, Ind. Center bearing. 1,697,028; Jan. 1.
- Tangring, Olof, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Method of and apparatus for annealing. 1,734,697; Nov. 5.



- Tanksley, Edith T. (See Norton, Edith T.)
- Tannehill, Vernon L., assignor to Fort Wayne Engineering and Manufacturing Company, Fort Wayne, Ind. Automatic and semiautomatic water softener. 1,713,105; May 14.
- Tannehill, Vernon L., assignor to Fort Wayne Engineering & Mfg. Co., Fort Wayne, Ind. Automatic pressure-controlled switch. 1,723,635; Aug. 6.
- Tannehill, Vernon L., assignor to Fort Wayne Engineering and Manufacturing Co., Fort Wayne, Ind. Valve-control mechanism for water softeners. 1,732,702; Oct. 22.
- Tannenbaum, Robert, Los Angeles, Calif. Renewable-tread cushion tire. 1,708,339; Apr. 9.
- Tannenholz, Melville, Brooklyn, N. Y. Luncheon mat for hot plates. Des. 80,194; Dec. 24.
- Tanner, Arnold J., North Haven, Conn. Display container. 1,705,103; Mar. 12.
- Tanner, Arnold J., North Haven, Conn. Folding box. 1,731,877; Oct. 15.
- Tanner, Arnold J., North Haven, Conn., assignor to Einson-Freeman Co., Inc. Packing and display container. 1,731,878; Oct. 15.
- Tanner, Arnold J., North Haven, Conn., assignor to Einson-Freeman Co., Inc. Display container. 1,731,950; Oct. 15.
- Tanner, Arnold J., North Haven, Conn., assignor to Einson-Freeman Co., Inc. Folding-display container. 1,731,951; Oct. 15.
- Tanner, Arnold J., North Haven, Conn. Folding packing and display container. 1,738,127; Dec. 3.
- Tanner Engineering Company, The. (See Tanner, Harry L., assignor.)
- Tanner, Floyd, Driftwood, Okla. Pump. 1,708,340; Apr. 9.
- Tanner, Frances E., Kansas City, Mo. Tube holder. 1,735,144; Nov. 12.
- Tanner, Harry L., Brooklyn, N. Y. Electrodynamic transmission system. 1,700,780; Feb. 5.
- Tanner, Harry L., Brooklyn, N. Y., assignor to Ford Instrument Co., Inc. Gyroscopic compass. 1,701,283; Feb. 5.
- Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Antifriction bearing. 1,722,948; July 30.
- Tanner, Harry L., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Antipendulous gyrocompass. 1,725,317; Aug. 20.
- Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Reducing the effects of residual magnetism in electrical apparatus. 1,727,949; Sept. 10.
- Tanner, Harry L., Brooklyn, assignor to The Tanner Engineering Company, Inc., Long Island City, N. Y. Electrical indicating instrument. 1,741,590; Dec. 31.
- Tanner, Hubert D., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gear-finishing machine. 1,722,544; July 30.
- Tannenwitz, Carl E., Grand Rapids, Mich. Band-saw wheel. 1,731,599; Oct. 15.
- Tanquary, Neal, Los Angeles, Calif. Radiator-cap ornament. Des. 78,906; July 2.
- Tanselb Company. (See Willis, Glenn H., assignor.)
- Tansley, George H., Hartford, Conn. Milk and cream separator. 1,733,563; Oct. 29.
- Tansley, George H., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine feed mechanism for machine guns. 1,719,147; July 2.
- Tansley, George H., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Magazine safety device for automatic pistols. 1,719,384; July 2.
- Tant, Walter F., et al. (See Heath, Forrest A., assignor.)
- Tanzy, Benjamin W., Detroit, Mich. Hosiery shield. 1,705,510; Mar. 19.
- Tapie, Joseph P. (See Bonnard, A. A., and Tapie.)
- Tapley, William, Redbridge, England. Instrument for gauging the rate of acceleration or deceleration of vehicles. 1,710,594; Apr. 23.
- Taplin, Carleton V., East Orange, N. J., L. M. Allen, New York, N. Y., and A. S. Bertels, Tenafly, N. J., said Taplin assignor to The American Telephone and Telegraph Company and said Allen and Bertels assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange maintenance system. 1,717,074; June 11.
- Tapman, Samuel F., Jamaica, N. Y. Method of apparatus for riveting. 1,721,263; July 16.
- Tappan, Robert, New York, N. Y. Metallic framework for buildings. 1,709,379; Apr. 16.
- Tappan Stove Company, The. (See Taylor, Thomas E., assignor.)
- Tar & Petroleum Process Company. (See Knowles, Alexander S., assignor.)
- Taranto, John, Waltham, Mass. Loom feeler. 1,707,500; Apr. 2.
- Tararo, Peter, Chicago, Ill. Inkwell stand. Des. 79,536; Oct. 1.
- Tarbox, Asa E., Oakland, Calif. Sign character. 1,721,192; July 16.
- Tarbox, John J., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Automobile chassis of sheet-metal stampings. 1,737,810; Dec. 3.
- Targett, William H., Los Angeles, Calif. Bird cage. Des. 79,767; Oct. 29.
- Taricco, Luigi, Spezia, Italy. Tube-cleaning and scale-removing device. 1,705,451; Mar. 12.
- Tark, Marcus B., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Sewage-disposal apparatus. 1,714,739; May 28.
- Tarkington, George W., Denver, Colo. Projecting figure toy. 1,715,798; June 4.
- Tarlow, Milton D. (See Edelson, C. Z., Goldeen, and Tarlow.)
- Tarlow, Milton D. (See Goldeen, J., Edelson, and Tarlow.)
- Tarn, Thomas B., Brooklyn, N. Y. Compensating crank structure for pitman drives. 1,726,249; Aug. 27.
- Tarnoff, Morris. (See Greenberg, B., and Tarnoff.)
- Tarr, Gardner W. (See Goodell, A. P., and Tarr.)
- Tarr, Margaret H., Collingswood, N. J. Pin ticket. 1,725,603; Aug. 20.
- Tartaglia, Leonardo M., Albuquerque, N. Mex. Electric traffic signal. 1,730,098; Oct. 1.
- Tarver, Edward B., Lakewood, Ohio. Windshield wiper. 1,703,181; Feb. 26.
- Tarver, George P., Pendleton, Oreg. Battery-cell container. 1,723,586; Aug. 6.
- Tascarella, Salvatore, Brooklyn, N. Y. Map holder. 1,710,555; Apr. 23.
- Tashman, Harry, New York, N. Y. Fringe, braid, and the like articles, and producing same. 1,701,514; Feb. 12.
- Tasker, Homer G. (See Gary, L. A., and Tasker.)
- Tasker, Litha M., Walkerville, Ontario, Canada. Decorative candle and its manufacture. 1,709,889; Apr. 23.
- Tasman, George, Brooklyn, N. Y. Joint. Re17,441; Sept. 24.
- Tasman, George, Brooklyn, N. Y. Automobile door construction. 1,741,384; Dec. 31.
- Tat, Homer E., J. E. King, and H. Barber, Ashland, Ky. Gas-tank cap. 1,732,423; Oct. 22.
- Tatar, Stanley, Detroit, Mich. Tack driver. 1,736,636; Nov. 19.
- Tatay, Frank, New York, N. Y. Water and air power device. 1,708,807; Apr. 9.
- Tate, Ballard C. (See Truitt, R. G., Tate, and Qualls.)
- Tate, Charles H. (See Borden, Raymond, assignor.)
- Tate, Edgar E., Eden, Tex. Retaining dog for cotton-gin presses. 1,726,935; Sept. 3.
- Tate, James E. (See Allen, Fred W., assignor.)
- Tate, James R., et al. (See Smith, James R., assignor.)
- Tate, Joseph T., et al. (See Greenstreet, Oliver P., assignor.)
- Tate, Kenneth L., assignor to Taylor Instrument Companies, Rochester, N. Y. Making thermometric bulbs. 1,729,299; Sept. 24.
- Tate, Nancy E., Alhambra, Calif. Invalid's comfort bottle. 1,725,491; Aug. 20.
- Tate, Samuel G., Washington, D. C., assignor to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing machine. 1,726,868; Sept. 3.
- Tate, Samuel G., Washington, D. C., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blindstitch felling machine. 1,740,882; Dec. 24.
- Tate, William, Flint, Mich. Window shutter. 1,723,095; Aug. 6.
- Tatiossian, Armenag, Peabody, Mass. Automatic electromagnetic railroad gate. 1,708,640; Apr. 9.
- Tatro, Louis D., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,711,620; May 7.
- Tattrer, John W., Oak Park, Ill. Pump. 1,741,591; Dec. 31.
- Tattersall, Henry P., Mosman, near Sydney, New South Wales, Australia. Expansive boring tool. 1,733,209; Oct. 29.
- Tatum, Hamling, Dothan, Ala. Clothesline. 1,712,409; May 7.
- Tatum, Ira J., Kansas City, Mo. Collapsible camp grid. 1,709,289; Apr. 16.
- Tatum, John J., Baltimore, Md. Route and defect card-board holder for railway cars. 1,726,869; Sept. 3.
- Tatum, John J., Baltimore, Md. Friction draft gear. 1,730,635; Oct. 8.
- Tätz, Paul, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Railway signaling. 1,708,524; Apr. 9.
- Tätz, Paul, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Duplex system of telephony. 1,716,908; June 11.
- Tätz, Paul, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. High-frequency telegraphy and telephony system. 1,721,236; July 16.
- Faub, Alex., assignor to General Motors Corporation, Detroit, Mich. Intake manifold. 1,705,036; Mar. 12.
- Faub, Alex., assignor to General Motors Corporation, Detroit, Mich. Spring suspension. 1,705,037; Mar. 12.
- Faub, Alex., assignor to General Motors Corporation, Detroit, Mich. Rear-axle assembly. 1,721,535; July 23.
- Faub, Alex., assignor to General Motors Corporation, Detroit, Mich. Exhaust valve. 1,727,621; Sept. 10.
- Faub, Alex., and E. Waller, assignors to General Motors Corporation, Detroit, Mich. Three-shoe brake. 1,727,797; Sept. 10.
- Faub, Alex., assignor to General Motors Corporation, Detroit, Mich. Thermostatic control of intake heater. 1,731,831; Oct. 15.
- Tauber, Solomon. (See Hersher, Jacob, assignor.)
- Tauber, William, Chicago, Ill. Refrigerating unit. 1,724,533; Aug. 13.



- Taubert, Ernst, Leipzig-Gohlis, Germany. Apparatus for playing chords on stringed instruments. 1,735,145; Nov. 12.
- Tauffenbach, Valerie, née Waller, Berlin-Charlottenburg, and C. Greiner, Berlin-Halensee, assignors to "Taco," Kraftfahrzeug-Werkstätten G. m. b. H., Berlin-Charlottenburg, Germany. Vehicle spring protection. 1,737,207; Nov. 26.
- Taufener, Herman O. F. (See Saffold, C. R., and Taufener.)
- Tauman, Bernard, Chicago, Ill. Fish-bowl support. Des. 78,595; May 21.
- Tauscher, Fritz, Oberlungwitz, Germany. Jack sinker of special shape for knitting frames. 1,738,851; Dec. 10.
- Taussig, Joseph, Chicago, Ill. Lock. 1,719,203; July 2.
- Taussig, Joseph, Chicago, Ill. Partition bracket. 1,734,407; Nov. 5.
- Tautz, Herbert E., assignor to The Delta Manufacturing Company, Milwaukee, Wis. Trunnion construction. 1,697,669; Jan. 1.
- Tavani, Joseph, Philadelphia, Pa. Automatically controlling the operation of moving-picture machines and for operating a fire-control shutter. 1,737,034; Nov. 26.
- Taveau, René de M., Elizabeth, and C. B. Tygett, Bayonne, N. J., assignors, by mesne assignments, to The Texas Company, New York, N. Y. Production of metallic chloride. 1,698,324; Jan. 8.
- Tawara, Hikosaburo, Hiroshima City, Japan. Propelling apparatus for ships. 1,700,913; Feb. 5.
- Taylor, Albert H., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Multiple-channel communication system. 1,735,341; Nov. 12.
- Taylor, Albert H., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. High-frequency oscillation generator. 1,735,808; Nov. 12.
- Taylor, Albert H., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Wired radio system. 1,739,773; Dec. 17.
- Taylor, Albert H., and A. Crossley, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal. 1,724,232; Aug. 13.
- Taylor, Albert H., and A. Crossley, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y. High-frequency oscillation system. 1,741,485; Dec. 31.
- Taylor, Alfred T., Richmond Hill, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical converting and measuring system. 1,728,311; Sept. 17.
- Taylor, Allan C. (See Moss, V. G., and Taylor.)
- Taylor, Arch B., Charlotte, N. C. Bottle. Des. 78,667; May 28.
- Taylor, Archie R., assignor to New England Wood Heel Co., Haverhill, Mass. Machine and method for manufacturing heels. 1,737,811; Dec. 3.
- Taylor, Archie R., assignor to New England Wood Heel Co., Haverhill, Mass. Heel. 1,737,812; Dec. 3.
- Taylor, Aubrey E., Malvern, near Melbourne, Victoria, Australia. Folding-baby carriage or gocart. 1,732,112; Oct. 15.
- Taylor Brothers Manufacturing Corporation. (See Abbott, Augustus, assignor.)
- Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Mechanism for feeding can caps to swaging devices. 1,721,264; July 16.
- Taylor, Carl R., Cleveland, Ohio. Cone-rolling machine. 1,720,304; July 9.
- Taylor Chair Company, The. (See Taylor, Joseph F., assignor.)
- Taylor, Charles. (See Carter, Horace J., assignor.)
- Taylor, Charles, Kearsley, Manchester, England. Machine for the bleaching of fabrics in an open state. 1,729,021; Sept. 24.
- Taylor, Charles A. (See Parker, W. H., and Taylor.)
- Taylor, Charles H., Toronto, Ontario, assignor to J. R. M. Tisdale, Vancouver, British Columbia, Canada. Recorder. 1,706,044; Mar. 19.
- Taylor, Charles L., Careywood, Idaho. Sled brake. 1,726,005; Aug. 27.
- Taylor, Claude C., Fullerton, assignor to Union Oil Company of California, Los Angeles, Calif. Gas-lift connection for oil wells. 1,737,541; Nov. 26.
- Taylor, Clyde A., Chicago, Ill. Manifold-record holder. 1,723,096; Aug. 6.
- Taylor, Clyde M., and E. T. W. Reed, assignors to William H. Cole and Company, Limited, Cheltenham, England. Snap fastener. 1,703,796; Feb. 26.
- Taylor, Cyrus. (See Bergmann, C. N., Taylor, Jensen, and Fenn.)
- Taylor, Daniel C., Los Angeles, Calif. Machine element. 1,721,796; July 23.
- Taylor, Daniel G., assignor to Minneapolis Honeywell Regulator Company, Minneapolis, Minn. Oil-burning-control system. 1,727,735; Sept. 10.
- Taylor, David O., West Point, Miss. Boat-propelling means. 1,737,899; Dec. 3.
- Taylor, Dewey L., Houston, Tex., assignor of one-third to R. Jolly and one-third to R. A. Newe, Harris County, Tex. Register and message cabinet. 1,726,250; Aug. 27.
- Taylor, Dick, Paris, Tex. Cottonseed-delinting machine. 1,727,572; Sept. 10.
- Taylor, Dick, Paris, Tex. Cottonseed-delinting machine. 1,728,018; Sept. 10.
- Taylor, Donald S., Pleasant Ridge, assignor to General Motors Corporation, Detroit, Mich. Engine rear support. 1,738,805; Dec. 10.
- Taylor, Edmund R., New York, N. Y., assignor to American Telephone and Telegraph Company. Remote-control system. 1,739,531; Dec. 17.
- Taylor, Edmund R., New York, N. Y., assignor to American Telephone and Telegraph Company. Remote control of repeaters. 1,739,532; Dec. 17.
- Taylor, Edward, Ferryhill, England. Endless conveyer for coal mines. 1,702,579; Feb. 19.
- Taylor, Edward A., Buffalo, N. Y. Garment supporter. 1,704,927; Mar. 12.
- Taylor, Edward A., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Purifying water-soluble metal sulphides. 1,713,409; May 14.
- Taylor, Edward C., New York, N. Y. Supporting arrangement for vehicle lamps. 1,722,641; July 30.
- Taylor, Edward M. (See Heald, James N. and R. N., and Taylor.)
- Taylor Electric Company. (See Hintz, Walter L., assignor.)
- Taylor, Elmer Z. (See Bergmann, C. N., and Taylor.)
- Taylor, Elmer Z. (See Bergmann, C. N., Taylor, Jensen, and Fenn.)
- Taylor, Ernest C., and D. B. Mackie, Sacramento, Calif. Combined red and gun. 1,728,455; Sept. 17.
- Taylor, Ernest R. (See Clarke, H. T., and Taylor.)
- Taylor, Ernest R., Arkansas City, Kans. Operating device for poppet valves. 1,706,263; Mar. 19.
- Taylor, Floyd T., Matawan, assignor, by mesne assignments, to Hanson-Van Winkle-Munning Company, Newark, N. J. Apparatus for electrolytic and similar treatments. 1,727,736; Sept. 10.
- Taylor, Frank F., Company, The. (See Gill, D. W., and Orr, assignors.)
- Taylor, George, Philadelphia, Pa. Haircloth loom. 1,733,920; Oct. 29.
- Taylor, George A., Bergenfield, N. J., assignor to National Biscuit Company, New York, N. Y. Display device. 1,698,323; Jan. 8.
- Taylor, George A., Boston, Mass. Piston for internal-combustion engines. 1,712,591; May 14.
- Taylor, George A., Boston, assignor, by mesne assignments, to I. L. Taylor, Hyde Park, Mass. Piston. 1,719,092; July 2.
- Taylor, George C., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hydraulic regulating apparatus. 1,724,979; Aug. 20.
- Taylor, George C., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Governor. 1,734,453; Nov. 5.
- Taylor, George E. (See Campbell, D. F., and Taylor.)
- Taylor, George E., jr., Homewood, assignor to George E. Taylor, sr., Freeport, Ill. Detachable handle for shaker bars. 1,706,197; Mar. 19.
- Taylor, George E., sr. (See Taylor, George E., jr., assignor.)
- Taylor, George F., Schenectady, N. Y., assignor to General Electric Company. Stylus for sound-reproducing machines. 1,741,256; Dec. 31.
- Taylor, Glen E., Houston, Tex. Projecting machine. 1,730,251; Oct. 1.
- Taylor, Guy B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Absorption apparatus. 1,708,685; Apr. 9.
- Taylor, Guy B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing nitrosyl halide. 1,717,951; June 18.
- Taylor, Guy B., and F. C. Zeisberg, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process and apparatus for the manufacture of nitric acid. 1,735,342; Nov. 12.
- Taylor-Hall Welding Corporation. (See Hall, Preston M., assignor.)
- Taylor, Halsey W., Warren, Ohio. Drinking fountain. 1,715,875; June 4.
- Taylor, Harden E., Bronx, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Packaging. 1,710,386; Apr. 23.
- Taylor, Harold. (See Gurley, John W., assignor.)
- Taylor, Harry S., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Rack. 1,735,220; Nov. 12.
- Taylor, Harvey E., Philadelphia, Pa. Hydraulic turbine. 1,704,375; Mar. 5.
- Taylor, Headlie S., assignor to H. V. McKay Proprietary, Limited, Sunshine, Victoria, Australia. Reaper thrasher and like harvesting machine. 1,733,839; Oct. 29.
- Taylor, Headlie S., and H. V. McKay, assignors to T. V. McKay, Proprietary Limited, Sunshine, Victoria, Australia. Harvester and reaper thrasher machine. 1,720,864; July 16.
- Taylor, Henry. (See Taylor, Reginald and H.)
- Taylor, Henry E. P., Seymour, assignor, by mesne assignments, to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Roll grinder. 1,700,422; Jan. 29.
- Taylor, Henry P., Winston-Salem, N. C. Packing tobacco. 1,720,014; July 9.
- Taylor, Henry P., Winston-Salem, N. C. Pressing and packing manufactured tobacco. 1,720,015; July 9.
- Taylor, Henry P., Walkerton, Va. Lima-bean cleaner. 1,731,115; Oct. 8.
- Taylor, Henry P., Winston-Salem, N. C. Pressing and packing manufactured tobacco. 1,740,126; Dec. 17.



- Taylor, Herbert A., Wilmington, N. C. Fuse block and lightning arrester. 1,715,799; June 4.
- Taylor, Herbert B., assignor to General Railway Signal Company, Rochester, N. Y. Skate machine. 1,706,828; Mar. 26.
- Taylor, Herbert B., assignor to General Railway Signal Company, Rochester, N. Y. Skate machine. 1,707,196; Mar. 26.
- Taylor, Herbert B., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,717,328; June 11.
- Taylor, Herman J., Milwaukee, Wis., assignor, by mesne assignments, to Vulcan Motor Devices Company. Lockable gear-shifting device. 1,736,059; Nov. 19.
- Taylor, Howard D., New York, N. Y., assignor to Flexible Truck Corporation, Philadelphia, Pa. Side frame for car trucks. 1,719,525; July 2.
- Taylor, Huston, Detroit, Mich. Boiler. 1,734,310; Nov. 5.
- Taylor, Ida L. (See Taylor, George A., assignor.)
- Taylor Instrument Companies. (See Clawson, Albert E., assignor.)
- Taylor Instrument Companies. (See Ireland, George B., assignor.)
- Taylor Instrument Companies. (See Newell, Floyd B., assignor.)
- Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
- Taylor Instrument Companies. (See Stewart, Thomas M., assignor.)
- Taylor Instrument Companies. (See Tate, Kenneth L., assignor.)
- Taylor, Irene, Seattle, Wash. Filament container. 1,705,050; Mar. 12.
- Taylor, Irving A., assignor to Riley Stoker Corporation, Worcester, Mass. Dual feeding apparatus. 1,725,226; Aug. 20.
- Taylor, Irving A., assignor to Riley Stoker Company, Worcester, Mass. Protected grate block for stokers. 1,741,744; Dec. 31.
- Taylor, Isaiah H., Baltimore, Md. Porch-floor protector. 1,737,621; Dec. 3.
- Taylor, James A., Birmingham, Ala. Signal attachment for locomotives. 1,712,058; May 7.
- Taylor, James A., H. A. Sheesley, Portland, and F. W. Mears, East Millinocket, Me. Device for protecting rolls of paper. 1,716,249; June 4.
- Taylor, James H., Oak Park, Ill. Pipe-welding machine. 1,711,130; Apr. 30.
- Taylor, James H., Oak Park, Ill. Ring-rolling machine. 1,726,777; Sept. 3.
- Taylor, James H., Chicago, Ill. Pipe line. 1,715,436; June 4.
- Taylor, James H., Chicago, Ill., assignor, by mesne assignments, to Fuller Lehigh Company. Pulverized-coal-transport system. 1,741,041; Dec. 24.
- Taylor, James L., Manufacturing Co. (See Burns, Raymond W., assignor.)
- Taylor, James L., Jr., Pittsburgh, Pa. Flangeway guard. 1,733,435; Oct. 29.
- Taylor, James R., Spearman, Tex. Propeller. 1,722,182; July 23.
- Taylor, James W., San Antonio, Tex., assignor to Economy Pump and Oil Tool Company. Oil-well flowing and pumping apparatus. 1,738,974; Dec. 10.
- Taylor, Jess B., and C. C. Hennessy, Indianapolis, Ind. Record holder. 1,715,016; May 28.
- Taylor, Jesse L., and C. L. Howser, Smackover, Ark. Apparatus for chemically treating natural oils. 1,717,744; June 18.
- Taylor, Joel M., Hawkinsville, Ga. Agricultural machine. 1,739,020; Dec. 10.
- Taylor, John, Chicago, Ill. Burning collar. 1,708,808; Apr. 9.
- Taylor, John, assignor to The Battery Equipment and Supply Company, Chicago, Ill. Electrical connector. 1,698,379; Jan. 8.
- Taylor, John, Manchester, England. Automatic sprinkler or fire extinguisher. 1,733,701; Oct. 29.
- Taylor, John M., Bridgeport, Pa., assignor to Diamond State Fibre Company, Elsmere, Del. Fiber floor covering. 1,710,595; Apr. 23.
- Taylor, John O., Oak Park, and H. Doyle, assignors to Kroehler Manufacturing Company, Naperville, Ill. Cushion-stuffing machine. 1,708,341; Apr. 9.
- Taylor, John W., St. Louis, Mo. Garment and fastening means therefor. 1,719,632; July 2.
- Taylor, John W., assignor to W. & T. Avery Limited, Birmingham, England. Liquid dashpot. 1,740,794; Dec. 24.
- Taylor, John W., Birmingham, assignor to W. & T. Avery Limited, Soho Foundry, Birmingham, England. Weighing apparatus. 1,740,795; Dec. 24.
- Taylor, Joseph F., Cleveland Heights, assignor to The Taylor Chair Company, Bedford, Ohio. Chair construction. 1,738,023; Dec. 3.
- Taylor, Leroy B., Cleveland, Ohio. Reversible window check. 1,722,774; July 30.
- Taylor, Leroy B., Cleveland, assignor of one-half to C. H. Jansen, East Cleveland, Ohio. Extrusion press. 1,696,983; Jan. 1.
- Taylor, Llewellyn G., Birmingham, England. Machine for cutting off lengths from bars. 1,707,100; Mar. 26.
- Taylor, Louis R., Milwaukee, Wis. Connecting cable and plug therefor. 1,701,646; Feb. 12.
- Taylor, Maurice C. (See George, A., and Taylor.)
- Taylor, Maurice C. (See Guyer, J. A., and Taylor.)
- Taylor, Maurice C., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Composition for producing hypochlorite solutions. 1,716,014; June 4.
- Taylor, Merton W., West New York, assignor to Aluminum Screw Machine Products Company, Edgewater, N. J. Hair curler. 1,711,976; May 7.
- Taylor, Minnie B., Los Angeles, Calif. Vegetable-skinning process. 1,699,456; Jan. 15.
- Taylor, Myrtle E., et al. (See Ferguson, Alonzo W., assignor.)
- Taylor, Orson, Los Angeles, Calif. Pipe-pressure-testing plug. 1,710,439; Apr. 23.
- Taylor, Paul H., deceased, Wakefield, Mass.; G. M. Poland, administratrix. Piano. 1,709,045; Apr. 16.
- Taylor, Raymond A., Frederick, Md. Submarine escape-diving device. 1,733,436; Oct. 29.
- Taylor, Reginald, Liverpool, England, assignor, by mesne assignments, to Associated Telephone & Telegraph Company, Kansas City, Mo. Retarded alarm for connectors. 1,708,244; Apr. 9.
- Taylor, Reginald and H., Toronto, Ontario, Canada. Piston. 1,710,387; Apr. 23.
- Taylor, Reuben L., New York, N. Y. Advertising novelty. 1,699,383; Jan. 15.
- Taylor, Robert B., assignor to Hawaiian Canneries Company, Ltd., Kapaa, Kauai, Hawaii. Trimming table. 1,712,126; May 7.
- Taylor, Robert H. (See Hocking, E. G., and Taylor.)
- Taylor, Robert S., and A. F. King, 3d, Troy, N. Y. Beam hanger. 1,720,104; July 9.
- Taylor, Robert W., Banning, Calif. Compensating pad for mattresses. 1,742,108; Dec. 31.
- Taylor, Roy C., Benton, Me. Road construction. 1,709,923; Apr. 23.
- Taylor, Samuel J., Grants Pass, Ore. Revolving window or sash. 1,707,101; Mar. 26.
- Taylor, Sanford, Glenside, assignor to Safeguard Electric Appliance Company, Philadelphia, Pa. Heat control regulator and attachment device. 1,731,068; Oct. 8.
- Taylor, Steadman O., St. Louis, Mo. Retaining-valve bracket. 1,737,869; Dec. 3.
- Taylor, Thomas, Chicago, Ill. Collision recorder. 1,701,800; Feb. 12.
- Taylor, Thomas E., assignor to The Tappan Stove Company, Mansfield, Ohio. Stove-frame base and leg-fastening construction. 1,699,820; Jan. 22.
- Taylor, Thomas E., assignor to The Tappan Stove Company, Mansfield, Ohio. Oven construction. Re17,438; Sept. 17.
- Taylor, Thomas F., San Francisco, Calif. Dirigible headlight. 1,736,232; Nov. 19.
- Taylor, Thomas H. (See Dewey, Seymour B., jr., assignor.)
- Taylor, Tom L., Atlanta, Ga. Siphon control for washers. 1,721,797; July 23.
- Taylor, W. H., et al. (See Graham, Homer L., assignor.)
- Taylor-Wharton Iron and Steel Company. (See Hall, J. H., and Comerford, assignors.)
- Taylor-Wharton Iron and Steel Company. (See Hanks, George R., assignor.)
- Taylor, William. (See Teahen, J. M., and Taylor.)
- Taylor, William A., Detroit, Mich. Combined ticket holder and change purse. 1,701,595; Feb. 12.
- Taylor, William A., and C. M. Gidley, Borger, Tex. Placard support for tank cars. 1,717,528; June 18.
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass. 1,721,979; July 23.
- Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Glass and decolorizing and fining the same. 1,726,635; Sept. 3.
- Taylor, William E., East Orange, N. J., assignor to American Can Company, New York, N. Y. Agitated solder bath. 1,716,671; June 11.
- Taylor, William M., et al. (See Larsh, John M., assignor.)
- Taylor, William M., Fairhaven, Ohio. Crutch. 1,709,501; Apr. 16.
- Taylor, William M., assignor, by mesne assignments, to U. G. Smith, Indianapolis, Ind. Moldboard balance. 1,697,029; Jan. 1.
- Taylor, William M., assignor of one-fourth to J. M. Larsh and one-fourth to U. G. Smith, Indianapolis, Ind. Moldboard for road-making machines. 1,712,853; May 14.
- Taylor, William R., Clarendon, Va. Hydraulic calsson. 1,698,460; Jan. 8.
- Taylor, Zebulon S., New York, N. Y. Balance indicator for golf clubs. 1,735,517; Nov. 12.
- Teague, James. (See Carpenter, W. J., and Teague.)
- Teague, Lee R., and J. Graybill, Logan, Iowa. Cultivator-shield holder. 1,698,611; Jan. 8.
- Teague, Merwyn C. (See Hopkinson, E., and Teague.)
- Teague, Merwyn C., Jackson Heights, assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Making rubber surfacing on a rigid base and product. 1,705,273; Mar. 12.
- Teague, Merwyn C., Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Producing rubber articles. 1,719,633; July 2.
- Teague, Merwyn C., Elmhurst, assignor to General Rubber Company, New York, N. Y. Adhesive rubber composition. 1,719,948; July 9.
- Teague, Merwyn C., Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Making rubber compositions. 1,730,485; Oct. 8.



- Teague, Walter D., assignor to National Carbon Company, Inc., New York, N. Y. Radioreceiver cabinet. Des. 77,513; Jan. 15.
- Teague, Walter D., assignor to National Carbon Company, Inc., New York, N. Y. Radioreceiver Cabinet. Des. 77,514; Jan. 15.
- Teague, Walter D., New York, N. Y., assignor to National Carbon Company, Inc. Combined support and housing for an electric-arc lamp. Des. 78,699; June 4.
- Teague, Walter D., Forest Hills, N. Y., assignor to Turner Glass Company, Terre Haute, Ind. Jar or similar container. Des. 79,944; Nov. 19.
- Teahen, James M., Detroit, Mich. Float valve. 1,705,343; Mar. 12.
- Teahen, James M., Detroit, Mich., and W. Taylor, Robinson, Ill. Method and apparatus for forming ceramic structures. 1,710,277; Apr. 23.
- Teakle, Robert T., assignor to Detroit Drop Hammer Board Co., Detroit, Mich. Drop-hammer board. 1,722,715; July 30.
- Teasdale, Fred, assignor of one-half to J. M. Schuman, Rolla, Mo. Scraping tool. 1,704,376; Mar. 5.
- Teason, Adam G., Independence, Mo. Somersaulting toy. 1,701,219; Feb. 5.
- Teats, Roscoe, Denver, Colo., assignor to American Smelting and Refining Company, New York, N. Y. Recovering cadmium. 1,727,492; Sept. 10.
- Tebaldi, Alessandro, Milan, Italy. Valve. 1,730,306; Oct. 1.
- Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Picker stick for looms. 1,712,740; May 14.
- Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,714,991; May 28.
- Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading loom shuttle. 1,714,992; May 28.
- Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Filling-thread-tensioning mechanism. 1,714,993; May 28.
- Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading shuttle for looms. 1,722,254; July 23.
- Tebo, William A., Anthony, R. I., assignor to Draper Corporation, Hopedale, Mass. Roll for textile machinery. 1,741,351; Dec. 31.
- Tebryen, Mario W., Rio de Janeiro, Brazil, assignor of one-half to McClintic-Marshall Company, Pittsburgh, Pa., and one-half to American Rolling Mill Company, Middletown, Ohio. Making metallic connections. 1,735,809; Nov. 12.
- Technicolor Motion Picture Corporation. (See Carleton, Herbert O., assignor.)
- Technicolor Motion Picture Corporation. (See Comstock, Daniel F., assignor.)
- Technicolor Motion Picture Corporation. (See Gallison, Ernest A., assignor.)
- Technicolor Motion Picture Corporation. (See Kienninger, John F., assignor.)
- Technicolor Motion Picture Corporation. (See Sugden, Bertha, assignor.)
- Technicolor Motion Picture Corporation. (See Troland, Leonard T., assignor.)
- Technicolor Motion Picture Corporation. (See Whitney, William E., assignor.)
- Technidyne Corporation. (See Whittingham, George H., assignor.)
- Teckenburg, August, Hamburg, Germany. Clock with automatically-traveling advertising surface and annular gap for the clock hands. 1,731,401; Oct. 15.
- Tecktonius, E. C., Manufacturing Co. (See Tecktonius, Emil S., assignor.)
- Tecktonius, Emil S., assignor to E. C. Tecktonius Manufacturing Co., Racine, Wis. Banana stand. Des. 80,098; Dec. 10.
- Tedell, John, Springfield, assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Tandem disk harrow. 1,705,161; Mar. 12.
- Tedell, John, Springfield, assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Tractor hitch for gang plows. 1,732,703; Oct. 22.
- Tedman, Hudson A., assignor to Winslow Boiler & Engineering Co., Galesburg, Ill. Making fans. 1,734,541; Nov. 5.
- Teehan, John F., Brockton, Mass. Shoe. 1,731,731; Oct. 15.
- Teel, Od., Echo, Oreg. Thermostatic circuit closer. 1,717,529; June 18.
- Teele, Mary H., Silver Spring, Md. Filing device. 1,723,822; Aug. 6.
- Teepe-Whitney Corp. (See Viehmann, Louis J., assignor.)
- Teepie, Frank A., jr., assignor to Southern Iron & Equipment Co., Atlanta, Ga. Liquid-fuel-burner mechanism. 1,729,526; Sept. 24.
- Teepie, Harvey A., Greene, Iowa. Shingle. 1,740,883; Dec. 24.
- Teepie, Lawrence R. (See Dady, A. O., and Teepie.)
- Teeter, Reuben B. (See Osborne, H. P., Farmer, and Teeter.)
- Teetor, Abraham L., Indianapolis, Ind. Machine for turning eccentric curved surfaces. 1,703,559; Feb. 26.
- Teetor, Benjamin F., Hagerstown, Ind. Motor-driven car. 1,709,961; Apr. 23.
- Teetor, Macy O., assignor to The Perfect Circle Company, Hagerstown, Ind. Piston and piston ring. 1,710,388; Apr. 23.
- Teetor, Macy O., assignor to The Perfect Circle Company, Hagerstown, Md. Piston. 1,723,823; Aug. 6.
- Teetor, Ralph R., Hagerstown, Ind. Piston pin and forming same. 1,742,015; Dec. 31.
- Teetsell, Harold F., assignor to The Holt-Lyon Co. Inc., Saugerties, N. Y. Carpet beater. 1,722,162; July 23.
- Tefft, Frederick A., Toledo, Ohio. Terminal-box support. 1,733,840; Oct. 29.
- Tefft, Henry B., deceased, A. T. Buedel, administratrix, assignor to H. C. McNamer, Chicago, Ill. Storage battery and making same. 1,719,204; July 2.
- Tefra Co., The. (See Funk, Charles J., assignor.)
- Teichmann, Lina, Clarens, assignor of one-half to A. Michel, Montreux, Switzerland. Manufacture of foot garments and stockings. 1,724,784; Aug. 13.
- Teissere, Albert and J., St. Julien, France. Device for obtaining adjustably interspaced and inclined hatchings in the electromagnetic process for engraving printing rollers. 1,730,955; Oct. 8.
- Teissere, Jean. (See Teissere, Albert and J.)
- Teitel, Jay W., Los Angeles, Calif. Knife sharpener. 1,719,345; July 2.
- Teitscheid, Alfred F., Wharton, N. J. Fuse for projectiles. 1,723,315; Aug. 6.
- Tekavec, John, Cleveland, Ohio. Liquid, gasoline, and oil filter. 1,709,237; Apr. 16.
- Teklenburg, William E. (See Blomfeldt, A. A., and Teklenburg.)
- Telautograph Corporation. (See Van Nostrand, Arleigh N., assignor.)
- Telefonaktiebolaget L. M. Ericsson. (See Lienzén, David L., assignor.)
- Telefonaktiebolaget L. M. Ericsson. (See Thorelli, Hans W. R., assignor.)
- Telefonaktiebolaget L. M. Ericsson. (See Trechcinski, Roman, assignor.)
- Telefunken Gesellschaft für Drahtlose Telegraphie. m. b. H. (See Meissner, Alexander, assignor.)
- Telegraph Condenser Company, The. (See Brown, Sidney G., assignor.)
- Teletype Corporation. (See Kleinschmidt, Edward E., assignor.)
- Teletype Corporation. (See Krum, Charles L., and H. L., assignors.)
- Teletype Corporation. (See Reiber, Albert H., assignor.)
- Television Limited. (See Baird, John L., assignor.)
- Telfer, Archibald S., Tulsa, Okla. Pump. 1,737,870; Dec. 3.
- Telich, Anton. (See Johnston, William R., assignor.)
- Tellander, Gunnar R., Gottenborg, Sweden. Sheet-metal radiator section. 1,726,458; Aug. 27.
- Teller, Jacob, Chicago, Ill. Gas heater. Des. 78,368; Apr. 23.
- Teller, Jacob, assignor of one-half to W. A. Griswold, Nashville, Tenn. Heater. 1,740,671; Dec. 24.
- Teller, James H., Denver, Colo. Automatically-operating water-sealed system and apparatus for steam-cooking utensils. 1,698,205; Jan. 8.
- Tellis, Vsevolod G., assignor to O. F. Jordan Company, East Chicago, Ind. Front wing plow for railroad spreaders. 1,734,279; Nov. 5.
- Temperli, Edward D., et al. (See Bedel, Anselm L., assignor.)
- Temperli, Harry, et al. (See Bedel, Anselm L., assignor.)
- Temple, Fred W., assignor to Temple, Inc., Chicago, Ill. Loud speaker. Des. 77,629; Jan. 29.
- Temple, Inc. (See Marche, Alfred, assignor.)
- Temple, Inc. (See Temple, Fred W., assignor.)
- Temple, Jacob E., Fulton, Ill. Adjustable piano or organ bench. 1,730,252; Oct. 1.
- Temple, Oliver, Dyersburg, Tenn. Apparatus for applying medicaments to the lips. 1,735,221; Nov. 12.
- Temple, Robert M., Philadelphia, Pa. Stuffing box. 1,720,456; July 9.
- Temple, Samuel L., Chicago, Ill. Toothbrush. 1,711,621; May 7.
- Templeman, John P., Chicago, Ill. Support for brake-operating mechanism. 1,730,596; Oct. 8.
- Templeton, Clifford M., Detroit, Mich. Seat adjuster. 1,726,597; Sept. 3.
- Templeton, Edwin G. (See Maas, E. F., and Templeton.)
- Templeton, Robert P., Los Angeles, Calif., assignor to Pacific Burt Company, Limited, Toronto, Canada. Manifold check. 1,738,676; Dec. 10.
- Templeton, Walter B., and J. Malicki, Chicago, Ill.; said Malicki assignor to said Templeton. Expanding tool. 1,727,914; Sept. 10.
- Templin, Ellis W., Upper Darby, assignor to The American Motor Body Corporation, Philadelphia, Pa. Sheet-metal vehicle body. 1,700,090; Jan. 22.
- Templin, Walter W., assignor to E. D. Anderson, Inc., New York, N. Y. Wrapping and sealing machine. 1,722,716; July 30.
- Tenacity Manufacturing Company, The. (See Griffin, M., and Auburn, assignors.)
- Tenca, Louis P., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Bleaching machine. 1,735,146; Nov. 12.
- Tench, Frank. (See Mercer, R., and Tench.)
- Tench, Frank, London, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,699,457; Jan. 15.



- Tench, Frank, London, England, assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,729,853; Oct. 1.
- Tench, Frank, London, England, assignor to Associated Telephone and Telegraph Company, Kansas City, Mo. Telephone system. 1,729,856; Oct. 1.
- Tench, John R. (See Lachman, L. S., and Tench.)
- Tennant, Mathew W. (See Dark, W. F., and Tennant.)
- Tennant, Robert K., Alcona, Ontario, Canada. Ice-cutting tire for car wheels and scraper therefor. 1,738,404; Dec. 5.
- Tennessee Products Corporation. (See Walton, John W., assignor.)
- Tenney, Frederick H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for cementing the ends of inner tubes in preparation for splicing. 1,701,457; Feb. 5.
- Tenney, Perry L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Gear-shift-lever mounting. 1,713,244; May 14.
- Tenney, Perry L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Transmission with control at side. 1,727,622; Sept. 10.
- Tenney, Perry L., and H. E. Fidler, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich. Synchronizing transmission. 1,715,077; May 28.
- Tepe, Oscar E. (See Deren, Charles H., assignor.)
- Terao, Sueo, Mitchell, Nebr. Beet loader. 1,725,112; Aug. 20.
- Terao, Sueo, Mitchell, Nebr. Emergency brake. 1,734,059; Nov. 5.
- Ter Beest, Benjamin H., Madison, Wis. Valve for water softeners or the like. 1,707,692; Mar. 6.
- Terbush, Floyd, assignor to North East Electric Company, Rochester, N. Y. Forming cams. 1,729,300; Sept. 24.
- Terry, Edward T., Parrsboro, Nova Scotia, Canada. Automobile hoisting gear. 1,731,084; Oct. 8.
- Ter Horst, William P., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Vulcanized-rubber composition and manufacture of same. 1,698,569; Jan. 8.
- Terhune, Edwin W., assignor to Lord & Burnham Company, Irvington on the Hudson, N. Y. Sash operating mechanism. 1,738,742; Dec. 10.
- Terlinden, Richard W., assignor to American Tarso Company, South Boston, Mass. Producing transfer work. 1,713,151; May 14.
- Terminal Engineering Company. (See Brinton, Willard C., assignor.)
- Ternstedt Manufacturing Company. (See Archer, T. P., and Edgar, assignors.)
- Ternstedt Manufacturing Co. (See Archer, T. P., and Flynn, assignors.)
- Ternstedt Manufacturing Company. (See Edgar, F. M., and Archer, assignors.)
- Ternstedt Manufacturing Co. (See Fauser, F. J., and Edgar, assignors.)
- Ternstedt Manufacturing Company. (See Schnell, William, assignor.)
- Terpening, Raymond R. (See Vaughn, H. F., and Terpening.)
- Terre Haute Paper Company, The. (See Weston, E. B., and Clark, assignors.)
- Terrell, Edgar A. (See Reynolds, William G., assignor.)
- Terrell, Edgar A., Charlotte, N. C. Bobbin-stripping machine. 1,705,426; Mar. 12.
- Terrell, Edgar A., Charlotte, N. C. Bobbin stripper. 1,740,127; Dec. 17.
- Terrell, Edgar A., Charlotte, N. C. Bobbin stripper. 1,740,128; Dec. 17.
- Terrell, Edward, London, England. Vegetable or like peeling knife. 1,724,980; Aug. 20.
- Terrell, George H., San Antonio, Tex. Underreamer. 1,731,732; Oct. 15.
- Terrell Machine Company, The. (See Senn, Daniel R., assignor.)
- Terrell, Maud P., New York, N. Y. Lighting-fixture globe. Des. 77,794; Feb. 19.
- Terrell, Oliver C., Portland, Oreg. Stemming, paring, and coring tool. 1,698,111; Jan. 8.
- Terrell, Thomas, Jr., London, England. Vapor lamp or stove of the pressure type. 1,720,932; July 16.
- Terri Inc. (See Hauch, Wendell M., assignor.)
- Terrild, Regnar, Brooklyn, N. Y. Fuse and its insulator. 1,728,221; Sept. 17.
- Terrill, Clair J., assignor to The Kurz-Kasch Company, Dayton, Ohio. Base for radiotubes. 1,731,832; Oct. 15.
- Terrisse, Antoine A. G. H., Paris, France. Closing arrangement for individual motor-vehicle shelters. 1,731,327; Oct. 15.
- Terry, Charles M., assignor to A. W. Cash Company, Decatur, Ill. Valve. 1,701,284; Feb. 5.
- Terry, Clement G., Edwards, Mo. Anti owl, hawk, and crow perch. 1,717,279; June 11.
- Terry, Cordelia E. (See Terry, Joseph T., assignor.)
- Terry, Edward F., Jr., Salt Lake City, Utah, assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Fluid-operated tool. 1,728,312; Sept. 17.
- Terry, Edward F., Jr., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Rock-drilling apparatus. 1,733,437; Oct. 29.
- Terry, Edward W., administrator. (See Marshall, Harry B.)
- Terry, Herbert W., and A. A. Clarke, Pontardawe, Glamorganshire, Wales. Vehicle direction signal. 1,715,578; June 4.
- Terry, John B., and R. A. Halloran, Berkeley, Calif., assignor, by mesne assignments, to Standard Oil Company of California, Los Angeles, Calif. Producing lubricating oil from petroleum oil. 1,721,719; July 23.
- Terry, Joseph T., assignor to C. E. Terry, Alhambra, Calif. Concentration of oxidized ores. 1,709,329; Apr. 16.
- Terry, Matson C., Mansfield, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Refrigerator. 1,719,634; July 2.
- Terry, Peter J., St. Annes-on-Sea, England. Automatic weft-replenishing means for looms for weaving. 1,716,803; June 11.
- Terry, Walter J., Seattle, Wash. Dental hand piece. 1,740,796; Dec. 24.
- Tervoren, Honore A. P. M., representative. (See Sauer, Johan N. A.)
- Terwilliger, Charles W., Brooklyn, N. Y. Safety device for extractors. 1,697,798; Jan. 1.
- Tesch, Ernest A., Chicago, Ill. Combination door brace and latch. 1,700,000; Jan. 22.
- Tesoroni, Edgar J., Newark, N. J. Offset boring head. 1,718,089; June 18.
- Tessin, Arthur H., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Removing gas pockets from dough. 1,703,182; Feb. 26.
- Tessin, Arthur H., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Piercing device for dough dividers. 1,730,394; Oct. 8.
- Tessky, Karl, Esslingen-on-the-Neckar, Germany. Work-piece feed for machine tools. 1,725,492; Aug. 20.
- Tessky, Karl, Esslingen-on-the-Neckar, Germany. Driving mechanism for machine tools. 1,732,388; Oct. 22.
- Tessky, Karl, Esslingen-on-the-Neckar, Germany. Blank-transferring device for machine tools. 1,737,208; Nov. 26.
- Test, Ellis W., and W. H. Mussey, Chicago, Ill., assignors to Pullman Car and Manufacturing Corporation. Pulley. 1,722,599; July 30.
- Test, Frances K., assignor to Macbeth-Evans Glass Company, Charleroi, Pa. Globe. Des. 79,446; Sept. 17.
- Testa, Angelo M., assignor to E. B. Testa, Auburn, Me. Ruling device. 1,722,867; July 30.
- Testa, Evelyn B. (See Testa, Angelo M., assignor.)
- Testa G. m. b. H. (See Hinkel, Ludwig, assignor.)
- Tetstite Company, The. (See Cromwell, John C., assignor.)
- Tetlow, Lewis J., Holyoke, Mass. Flying machine. 1,718,391; June 25.
- Tetreault, Elmer J., New Bedford, Mass. Leno jumper attachment. 1,719,911; July 9.
- Tetzlaff, Benjamin A., Berwyn, Ill. Clamp. 1,723,259; Aug. 6.
- Tetzlaff, Benjamin A., Berwyn, Ill. Clamp. 1,726,006; Aug. 27.
- Teupel, Ernst, Berlin-Zehlendorf, assignor to T. Otto, Berlin, Germany. Surface-protecting paste. 1,697,936; Jan. 8.
- Teuton, Henry C., Adamsville, Tenn. Camera. 1,705,650; Mar. 19.
- Tevander, Olof N., assignor to Standard Cap & Seal Corporation, Chicago, Ill. Circuit-controlling switching mechanism. 1,732,844; Oct. 22.
- Tevander, Swan N., Maywood, Ill. Closure cap. 1,713,858; May 21.
- Tevander, Swan N., Maywood, Ill. Screw-threaded cap for covering glass jars and other containers and making same. 1,735,445; Nov. 12.
- Tevander, Swan N., Maywood, Ill., assignor to American Can Company, New York, N. Y. Air tester. 1,712,909; May 14.
- Tevander, Swan N., Maywood, Ill., assignor to Swan Metallic Seal & Cap Company. Machine for sealing caps to jars. 1,739,875; Dec. 17.
- Tevis, Arthur B., Altus, Okla. Cab or deck seat. 1,697,093; Jan. 1.
- Texas Company, The. (See Behimer, Otto, assignor.)
- Texas Company, The. (See Bogart, Guy B., assignor.)
- Texas Company, The. (See Claypoole, Walter, assignor.)
- Texas Company, The. (See de Florez, Luis, assignor.)
- Texas Company, The. (See Dimmig, Howard, assignor.)
- Texas Company, The. (See Doiron, H. P., and Titus, assignors.)
- Texas Company, The. (See Dudley, Andrew T., assignor.)
- Texas Company, The. (See Gray, George W., assignor.)
- Texas Company, The. (See Gumaer, Pierre L., assignor.)
- Texas Company, The. (See Hall, Frank W., assignor.)
- Texas Company, The. (See Harrigan, William, assignor.)
- Texas Company, The. (See Hill, Howard G., assignor.)
- Texas Company, The. (See Johnson, Bjornulf, assignor.)
- Texas Company, The. (See MacKenzie, K. G., and Haskell, assignors.)
- Texas Company, The. (See Manley, Robert E., assignor.)
- Texas Company, The. (See Preston, Harrison O., assignor.)
- Texas Company, The. (See Risdon, Fayette P., assignor.)
- Texas Company, The. (See Shefstead, Guy O., assignor.)
- Texas Company, The. (See Streen, Arthur B., assignor.)
- Texas Company, The. (See Stratford, William M., assignor.)
- Texas Company, The. (See Strowbridge, Frederick J., assignor.)
- Texas Company, The. (See Stryker, Daniel, assignor.)



- Texas Company, The. (See Taveau, R. de M., and Tygert, assignors.)
- Texas Company, The. (See White, George D., assignor.)
- Texas Gulf Sulphur Company. (See Judson, Wilber, assignor.)
- Texas Gulf Sulphur Company. (See Kobbé, William H., assignor.)
- Texas Gulf Sulphur Company. (See Schwab, James W., assignor.)
- Texas Iron Works Sales Corporation. (See Nixon, Jeddy D., assignor.)
- Texas Iron Works Sales Corporation. (See Pearce, Louis M., assignor.)
- Texas Steel Company. (See Baldwin, Cloise H., assignor.)
- Textier, Daniel A. L., Neuilly-sur-Seine, France. Impregnating articles with synthetic resins. 1,729,056; Sept. 24.
- Textier, Daniel A. L., Neuilly-sur-Seine, France. Impregnating articles with synthetic resins. 1,729,057; Sept. 24.
- Textile Machine Works. (See Friedmann, Albert, assignor.)
- Textile Machine Works, The. (See Gastrich, Gustav, assignor.)
- Textile Machine Works. (See Krissiep, Max, assignor.)
- Textile Machine Works. (See Richter, Max, assignor.)
- Textile Machine Works. (See Struve, Frederick E., assignor.)
- Textile Machine Works. (See Waechtler, Kurt O., assignor.)
- Textile Machine Works. (See Zwicky, Melchior, assignor.)
- Textile Patents Corporation. (See Baader, Herman, assignor.)
- Textile Under-Clearers Limited. (See Mallott, Herbert H., assignor.)
- Thacher, George H., Jr., Melrose, Mass. Stoker-operating mechanism. 1,733,142; Oct. 29.
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Work-releasing device for lathes. 1,700,340; Jan. 29.
- Thacher, John J., Wethersfield, assignor to The F. B. Shuster Company, New Haven, Conn. Wireworking machine. 1,714,480; May 21.
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Rotating generating tool for automatic lathes. 1,722,600; July 30.
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Automatically-operated centering machine. 1,735,361; Nov. 12.
- Thacker, Anson A., assignor to Paragon Mailing Machine Company, Kansas City, Mo. Envelope opening and sealing machine. 1,727,679; Sept. 10.
- Thacker, William L., deceased, Greensboro, N. C.; Atlantic Bank and Trust Co., administrator. Coil-winding machine. 1,751,183; Oct. 8.
- Thaden, Herbert V., assignor to Aircraft Development Corporation, Detroit, Mich. Airship mooring. 1,700,001; Jan. 22.
- Thaete Automatic Valve Corporation. (See Thaete, William L., assignor.)
- Thaete, William L., assignor to Thaete Automatic Valve Corporation, Denver, Colo. Cut-off attachment for faucets. 1,702,580; Feb. 19.
- Thaete, William L., assignor to The Thaete Automatic Valve Corporation, Denver, Colo. Cut-off attachment for faucets. 1,702,581; Feb. 19.
- Thal, Bernhard, Chelsea, Mass., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Screw driver. 1,738,405; Dec. 3.
- Thalhofer, Walter, Vienna, Austria, assignor to A. G. für Chemische Industrie in Liechtenstein, Schaan, Liechtenstein. Protection of metallic surfaces against incrustation and corrosion. 1,736,986; Nov. 26.
- Thalhofer, Walter, Vienna, Austria, assignor to A. G. für Chemische Industrie in Liechtenstein, Schaan, Liechtenstein. Protection of metallic surfaces against incrustations and deposits. 1,736,987; Nov. 26.
- Thamerus, Frederick L., Buffalo, N. Y. Grapevine-brush remover. 1,713,152; May 14.
- Thanders Electric Company. (See Trescott, John B., assignor.)
- Thannhauser, Fred G., Detroit, Mich. Internal-combustion engine. 1,712,945; May 14.
- Tharaldsen, Filip, Oslo, Norway. Apparatus for making liquid zinc from blue powder. 1,708,403; Apr. 9.
- Tharaldsen, Filip, Christiania, Norway. Condenser for zinc vapors from electric furnaces. 1,715,960; June 4.
- Tharp, John W., Quincy, Ill. Convertible dresser trunk. 1,725,550; Aug. 20.
- Tharp, Victor S., Elmhurst, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Testing equipment. 1,716,471; June 11.
- Tharp, Victor S., Elmhurst, assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,738,059; Dec. 3.
- Thatcher, Arthur R. (See Nelson, G. H., and Thatcher.)
- Thatcher, Joseph A., San Francisco, Calif. Water-heating apparatus. 1,735,554; Nov. 12.
- Thatcher, Joseph H. (See Miller, Jesse P., assignor.)
- Thatcher, Milo E., Montrovia, Calif. Implement-holding device. 1,701,057; Feb. 5.
- Thatcher, Welling F., assignor to Servel, Inc., New York, N. Y. Multiple-installation refrigeration system. 1,724,233; Aug. 13.
- Thau, Sam. (See Kiwad, M., and Thau.)
- Thauss, Alfred. (See Guenther, A., Thauss, and Mauthe.)
- Thauss, Alfred, Cologne-Deutz, and A. Guenther, Cologne-Riehl, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing and printing process. 1,711,002; Apr. 30.
- Thaw, Benjamin, jr., Buenos Aires, Argentina. Time-controlled circuit. 1,713,630; May 21.
- Thawley, Thomas D., assignor to G. W. Peterson, Chesapeake City, Md. Corn cutter and shocker. 1,706,004; Mar. 19.
- Thayer, Arthur S., Lakewood, Ohio. Diaphragm for transmitters and receivers. 1,738,853; Dec. 10.
- Thayer, Eugene A., Alton, Ill. Prosthetic dentistry. 1,729,461; Sept. 24.
- Thayer, Heman D., East Springfield, Pa. Sanitary means and method for trapping mice. 1,709,199; Apr. 16.
- Thayer, Henry W., Chatham, N. J. Sound-amplifying device. 1,701,515; Feb. 12.
- Thayer, Reuel H., Hollywood, assignor to Thayer Talkee Corporation, San Francisco, Calif. Key-retainer strip. 1,740,048; Dec. 17.
- Thayer, Robert W., Brooklyn, N. Y. Transfusion apparatus. 1,725,318; Aug. 20.
- Thayer Talkee Corporation. (See Thayer, Reuel H., assignor.)
- Thayer, William E., assignor of one-half to R. P. Thornton, San Francisco, Calif. Fender jack. 1,739,488; Dec. 10.
- Thebaud, John B., Camden, N. J. Valvular closure for bottles and jars. 1,733,322; Oct. 29.
- Thebaud, Laurence G., assignor to Massachusetts Mutual Life Insurance Company, Springfield, Mass. Record device. 1,698,461; Jan. 8.
- Theilacker, Frederick E., Milwaukee, Wis., assignor to N. P. Harshberger, Chicago, Ill. Composition shingle. 1,710,954; Apr. 30.
- Theilacker, Frederick E., Milwaukee, Wis., assignor to N. P. Harshberger, Chicago, Ill. Shingle. 1,725,551; Aug. 20.
- Theilacker, Frederick E., Milwaukee, Wis., assignor to N. P. Harshberger, Chicago, Ill. Shingle. 1,729,846; Oct. 1.
- Theis, Anthony. (See Zelenka, E., and Theis.)
- Theienz, Henry, St. Louis, Mo. Lock. 1,721,676; July 23.
- Theodoropoulos, Aristede A., New York, N. Y. Collapsible umbrella. 1,738,267; Dec. 3.
- Theodoropoulos, Aristede A., New York, N. Y. Cleaning and massaging device. 1,741,962; Dec. 31.
- Theoharis, Themistocles, and J. Fotaki's, Tampa, assignors of twenty per cent to I. N. Nicholas, Tarpon Springs, Fla. Street-indicating and advertising device. 1,737,900; Dec. 3.
- Thériault, Joseph P., Rimouski, Quebec, Canada. Cuspidor for vehicles. 1,723,900; Aug. 6.
- Theriot, Charles, assignor of one-fourth to J. L. Girod and one-fourth to L. B. Lampo, New Orleans, La. Posthole digger. 1,706,332; Mar. 19.
- Thermal Engineering Corporation. (See Mayo, John, assignor.)
- Thermal Syndicate Limited, The. (See Clark, R. W., and Sample, assignors.)
- Thermatomic Carbon Company. (See Boardman, Clark C., assignor.)
- Thermatomic Carbon Company. (See Miller, Warren C., assignor.)
- Thermatomic Carbon Company. (See Uhlinger, Roy H., assignor.)
- Thermionic Corporation. (See Riggs, Alger S., assignor.)
- Thermokept Corporation. (See Bach, Neils P., assignor.)
- Thermokept Corporation. (See Gibson, Samuel G., assignor.)
- Thermopak Company. (See O'Brien, David J., assignor.)
- Theroux, Charles, Brussels, Belgium, assignor to Union Special Machine Company, Chicago, Ill. Seam for sewed articles. 1,740,209; Dec. 17.
- Theroux, Charley, Stuttgart, Germany, assignor to Union Special Machine Company, Chicago, Ill. Hat sweat and making the same. 1,717,075; June 11.
- Thesen, Frederick A., Quincy, Ill. Combination burner. 1,730,253; Oct. 1.
- Thew Shovel Company, The. (See Wilson, Emery J., assignor.)
- Thewes, William O., North Ridgeville, Ohio. Wrench. 1,727,623; Sept. 10.
- Thibault, Wilfred S. (See Black, C. A., and Thibault.)
- Thiefels, Ferdinand N., Pontiac, Mich., assignor to The Willys-Overland Company, Toledo, Ohio. Connecting rod and method of making. 1,720,105; July 9.
- Thiel, Heinrich, Ruhla, Germany. Device for putting under tension the tools of filing, sawing, and similar machines and machine tools. 1,723,389; Aug. 6.
- Thiel, Heinrich, Ruhla, Germany. Automatic feed for sawing machines or the like. 1,741,082; Dec. 24.
- Thiele, Werner, Oranienbaum, near Dessau, Germany. Manufacturing cigars. 1,716,250; June 4.
- Thielen, Edward A., Dorrance, Kans. Hoist. 1,712,179; May 7.
- Thieler, Edward F., Sound Beach, Conn. Advertising sign. 1,711,759; May 7.
- Thielker, Henry J., assignor to Triplex Safety Glass Company of North America, New York, N. Y. Gun port for windshields. 1,703,122; Feb. 26.
- Thieman, Emma, et al. (See Thiemann, William B., assignor.)
- Thieman, William B., assignor to W. Peterson and E. Thieman, Albert City, Iowa. Ensilage harvester. 1,702,551; Feb. 19.



- Thien, Alexander, and A. Brosnatch, Chicago, Ill. Automobile bed. 1,702,284; Feb. 19.
- Thienemann, Heinz. (See Drucker, J., and Thienemann.)
- Thierbach, Dietwalt. (See Kűpfmüller, K., Mayer, and Thierbach.)
- Thierfelder, Albert, assignor to Phoenix Hosiery Company, Milwaukee, Wis. Stocking clock-lace-forming machine. 1,708,160; Apr. 9.
- Thies, Adolf, Chicago, Ill. Typing system. 1,733,104; Oct. 22.
- Thies, Frank. (See Thies, John and F.)
- Thies, John and F., Hutchinson, Kans. Lug for tractor wheels and the like. 1,712,911; May 14.
- Thies, Urban C., Dayton, Ohio. Fabricated structural part. 1,738,854; Dec. 10.
- Thies, Urban C., assignor, by mesne assignments, to Unit Steel Company, Dayton, Ohio. Adjustable partition. 1,707,693; Apr. 2.
- Thies, Urban C., Dayton, assignor, by mesne assignments, to The Globe-Wernicke Company, Cincinnati, Ohio. Metal and concrete building construction. 1,735,827; Nov. 12.
- Thiess, Karl, Sindlingen, near Höchst-on-the-Main, and C. J. Müller, K. Schirmacher, and K. Zahn, Höchst-on-the-Main, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuff and preparing same. 1,712,721; May 14.
- Thiess, Karl, Sindlingen, near Höchst-on-the-Main, and C. J. Müller and E. Hoffa, Höchst-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Blue vat dyestuffs. 1,728,987; Sept. 24.
- Thim, Carl J., Logan, Utah. Clasp. 1,705,549; Mar. 19.
- Thimmes, George E. (See Greenwald, R. C., and Thimmes.)
- Thirling, Hans, Vienna, Austria. Selenium cell. 1,703,798; Feb. 26.
- Thirty, Leon, Huy, Belgium. Hinge. 1,721,283; July 16.
- Thirty, Leon, Huy, Belgium. Process and machine for manufacturing oscillating joints and supports. 1,739,270; Dec. 10.
- Thistlethwaite, Charles A., Ilion, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,722,446; July 30.
- Thode, Arthur. (See Thode, Emil, assignor.)
- Thode, Emil, Stamford, assignor of one-fourth to A. Thode, Belvidere, S. Dak. Machine for removing snow. 1,723,958; Aug. 6.
- Thode, William N. (See Kochendorfer, F. S., and Thode.)
- Thode, William N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Casting apparatus. 1,732,246; Oct. 22.
- Thoen, Lowell H., Stockton, assignor, by mesne assignments, to Western Harvester Co., San Francisco, Calif. Roller-bearing mounting. 1,706,045; Mar. 19.
- Thoens, Edward J., St. Louis, and G. Frankey, Maplewood, Mo. Wall-paper remover. 1,741,257; Dec. 31.
- Thoens, Burchard M. (See Thoens, Burchard, assignor.)
- Thoens, Burchard, assignor of one-half to B. M. Thoens, New York, N. Y. Refrigerating apparatus. 1,713,934; May 21.
- Thoerig, Conrad W., assignor of one-half to H. Karvaly, Vienna, Austria. Electric water heater. 1,732,667; Oct. 22.
- Tholin, Charles F., assignor to The Skandia Furniture Company, Rockford, Ill. Automatic desk-fall support. 1,722,484; July 30.
- Thoma, Andrew, Cambridge, assignor, by mesne assignments, to North American Chemical Company, Boston, Mass. Shoe-bottom filler. 1,698,806; Jan. 15.
- Thoma, Andrew, Cambridge, assignor to North American Chemical Company, Boston, Mass. Shoe-bottom filler. 1,704,547; Mar. 5.
- Thoma, Andrew, Cambridge, assignor to North American Chemical Company, Boston, Mass. Shoe-bottom-filling machine. 1,730,175; Oct. 1.
- Thoma, Erwin. (See Hoffa, E., Heyna, Thoma, and Hirschel.)
- Thoma, Erwin. (See Hoffa, E. Runne, and Thoma.)
- Thoma, Erwin. (See Hoffa, E., Thoma, and Heyna.)
- Thoma, Eugen, assignor to E. G. Bek, Pforzheim, Germany. Soldering of chains and ring-mesh fabrics. 1,732,317; Oct. 22.
- Thoma, Hans, Karlsrube, Baden, and H. Kosel, Offenbach-on-the-Main, Germany. Pump or motor. 1,736,754; Nov. 19.
- Thoma, Meinrad F., Fitchburg, Mass. Mixing silk and artificial silk. 1,722,829; July 30.
- Thomann, Anthony C., Boston, Mass. Shock absorber. 1,714,646; May 28.
- Thomann, Frederick A., East Moline, assignor to Deere & Company, Moline, Ill. Molding wheel hubs. 1,731,445; Oct. 15.
- Thomann, John. (See Smythe, Richard M., assignor.)
- Thomas, Adolph A., New York, N. Y. Electric sound reproducer. Re17,432; Sept. 10.
- Thomas, Adolph A., New York, N. Y. Electromagnetic receiver and transmitter. 1,726,200; Aug. 27.
- Thomas, Adolph A., New York, N. Y. Loud-speaker. 1,731,799; Oct. 15.
- Thomas, Adolph A., New York, N. Y. Electric thermostat. 1,733,085; Oct. 22.
- Thomas, Adolph A., New York, N. Y. Electric phonograph reproducer. 1,734,454; Nov. 5.
- Thomas, Adolph A., New York, N. Y. Electric phonograph reproducer. 1,734,542; Nov. 5.
- Thomas, Adolph A., New York, N. Y. Electric condenser. 1,737,741; Dec. 3.
- Thomas, Adolph A., New York, N. Y., assignor to The Crosley Radio Corporation, Cincinnati, Ohio. Loud-speaking telephone receiver. Re17,186; Jan. 1.
- Thomas, Adolph A., New York, N. Y., assignor to Brandes Laboratories, Inc., Newark, N. J. Loud-speaking telephone receiver. 1,715,106; May 28.
- Thomas, Albert G., Lynchburg, Va. Vacuum tube. 1,704,155; Mar. 5.
- Thomas, Arthur, Calgary, Alberta, Canada. Drive and control of motor generators. 1,721,677; July 23.
- Thomas, Arthur, Thornton Heath, assignor to The Accounting & Tabulating Corporation, Great Britain, Limited, London, England. Card-delivery mechanism. 1,717,858; June 18.
- Thomas, Arthur E., Wayne, Mich. Lock mechanism. 1,723,665; Aug. 6.
- Thomas, Arthur L., North Charleston, S. C. Shifting mechanism for edgers and the like. 1,734,887; Nov. 5.
- Thomas, Benjamin F., Surprise, Nebr. Cotter-pin tool. 1,709,547; Apr. 16.
- Thomas & Betts Co. (See Buchanan, Stephen N., assignor.)
- Thomas & Betts Co. (See Buchanan, S. N., and Church, assignors.)
- Thomas & Betts Co., The. (See Buchanan, S. N., and Davis, assignors.)
- Thomas & Betts Co. (See Church, Lewis H., assignor.)
- Thomas & Betts Co., The. (See Church, Lewis H., assignor.)
- Thomas & Betts Co., The. (See Thomas, George C., Jr., assignor.)
- Thomas, Carroll. (See Wennagel, G. F., and Thomas.)
- Thomas, Charles A. (See Midgley, T., jr., Hochwalt, and Thomas.)
- Thomas, Charles E. (See McCollum, B. F., and Thomas.)
- Thomas, Charles L., Dallas, assignor to Charles L. Thomas Company, Incorporated, Dallas, Tex. Baking. 1,732,289; Oct. 22.
- Thomas, Charles L., Company. (See Thomas, Charles L., assignor.)
- Thomas, Charles P., Rock Island, Ill. Coin-controlled merchandising machine. 1,726,201; Aug. 27.
- Thomas, Charles S., San Diego, Calif. Tool coupling. 1,705,038; Mar. 12.
- Thomas, Charles W., Cleveland, Ohio. Washing machine. 1,724,234; Aug. 13.
- Thomas, Charles W., assignor to The Thomas Stoker Company, Cleveland, Ohio. Grate for stoves and furnaces. 1,711,131; Apr. 30.
- Thomas, Clarence D. (See Zeni, Lawrence, assignor.)
- Thomas, Clifford R. (See Day, W. H., and Thomas.)
- Thomas, Clifford S., Gorham, Me. Cable clamp. 1,736,807; Nov. 26.
- Thomas, Cyril H., Chicago, Ill., assignor to Royal Electric Manuf. Co. Inc. Fuse mounting. 1,715,437; June 4.
- Thomas, David, Llanelly, Wales. Finger exerciser. 1,707,151; Mar. 26.
- Thomas, David W., Youngstown, assignor to The Niles Steel Products Company, Niles, Ohio. Metal container. 1,706,638; Mar. 26.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Testing device. 1,701,021; Feb. 5.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,706,970; Mar. 26.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Testing device. 1,715,800; June 4.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Counting scale. 1,725,493; Aug. 20.
- Thomas, Eugen. (See Bek, E. G., and Thoma.)
- Thomas, Floyd H., Milan, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic tool. 1,717,818; June 18.
- Thomas, Francois V. A., Paris, France. Carburetor. 1,739,563; Dec. 17.
- Thomas, Frank. (See Bishop, Richard E., assignor.)
- Thomas, Frank, Indianapolis, Ind. Amusement house. Des. 79,998; Nov. 26.
- Thomas, Frank, Indianapolis, Ind. Amusement house. 1,738,752; Dec. 10.
- Thomas, Frank B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Warning device. 1,723,218; Aug. 6.
- Thomas, Frank B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Door and brake control device. 1,736,019; Nov. 19.
- Thomas, Frank G. (See Bickford, A. H., Melvin, and Thomas.)
- Thomas, Franklin A., Malden, Mass. Anchoring post. 1,703,461; Feb. 26.
- Thomas, George B. (See Goodridge, G. W., and Thomas.)
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,711,552; May 7.
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,732,956; Oct. 22.
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Outlet-box construction. 1,734,543; Nov. 5.



- Thomas, George C., jr., Elizabeth, assignor to The Thomas & Betts Co., Elizabeth, N. J. Cable connector. 1,736,020; Nov. 19.
- Thomas, George F. (See Davis, E. W., and Thomas.)
- Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Band brake. 1,699,550; Jan. 22.
- Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,719,858; July 9.
- Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake shoe. 1,726,998; Sept. 3.
- Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,741,168; Dec. 31.
- Thomas, George W., et al. (See Stair, Frank H., assignor.)
- Thomas, Gerald, assignor of one-fourth to G. Nurse, New York, N. Y. Window-sash construction. 1,734,836; Nov. 5.
- Thomas, Hanson, Edgewood, Pa. Method of and apparatus for making bolts. 1,734,752; Nov. 5.
- Thomas, Henry. (See Pew, A. E., jr., and Thomas.)
- Thomas, Henry, Elizabeth, N. J., assignor to Bethlehem Steel Company. Liquid atomizer. 1,725,381; Aug. 20.
- Thomas, Henry, London, England, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,702,064; Feb. 12.
- Thomas, Henry C., Toronto, Ontario, Canada. Apparatus for forming a deckle edge upon paper sheets, cards, or the like. 1,733,921; Oct. 29.
- Thomas, Hubert S., and W. R. Davis, Whitchurch, Wales. Machinery to be employed in the doubling or folding of metallic plates or sheets. 1,718,392; June 25.
- Thomas, Idris, Whittier, and M. L. Kinney, Bell, Calif. Pump liner. 1,730,905; Oct. 8.
- Thomas, Irvin G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostat. 1,705,690; Mar. 19.
- Thomas, Irvin G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic switch. 1,728,811; Sept. 17.
- Thomas, Isaac M., Lincoln, Nebr. Relief steering wheel. 1,726,459; Aug. 27.
- Thomas, Ivor D., Palmyra, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Door extractor. 1,724,861; Aug. 13.
- Thomas, James. (See Messler, E. L., and Guthrie, assignors.)
- Thomas, James A., assignor to Llewellyn Iron Works, Los Angeles, Calif. Needle valve. 1,731,184; Oct. 8.
- Thomas, James G., Perth, Western Australia, Australia. Device for swiveling and dipping headlights of automotive vehicles. 1,705,427; Mar. 12.
- Thomas, John. (See Beckett, E. G., and Thomas.)
- Thomas, John. (See Fairweather, D. A. W., Beckett, and Thomas.)
- Thomas, John. (See Smith, W., and Thomas.)
- Thomas, John C., assignor by mesne assignments to Braden Steel & Winch Company, Tulsa, Okla. Attachment for motor vehicles. 1,721,235; July 16.
- Thomas, John D., and J. E. Holeyton, North English, Iowa. Folding trestle. 1,713,359; May 14.
- Thomas, John E., assignor to The Chicago White Lead and Oil Co., Chicago, Ill. Protective coating. 1,733,564; Oct. 29.
- Thomas, John H., assignor of one-half to L. T. Roberts, Denver, Colo. Aeroplane. 1,725,724; Aug. 20.
- Thomas, John R., Wilkes-Barre, Pa. Handgrip or holder. 1,722,183; July 23.
- Thomas, John R., Wilkes-Barre, Pa. Clamp for abrasives. 1,722,359; July 30.
- Thomas, John V., Whittier, and B. D. Balthis, Glendale, Calif. Gas burner. 1,707,451; Apr. 2.
- Thomas, Laurence H. (See Kuhn, F., and Thomas.)
- Thomas, Mable M., executrix. (See Farmer, C. C., and Thomas.)
- Thomas, Marguerite C., Los Angeles, Calif. Color-design-display contrivance. 1,718,499; June 25.
- Thomas, Percy H., Upper Montclair, N. J. Transmission-line tower. 1,715,479; June 4.
- Thomas, Percy H., Upper Montclair, N. J. System of electric transmission. 1,724,437; Aug. 13.
- Thomas, Percy H., Upper Montclair, N. J. Two-circuit transmission tower. 1,741,963; Dec. 31.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective system. 1,715,684; June 4.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,730,254; Oct. 1.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronizing relay system. 1,730,341; Oct. 1.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronizing relay system. 1,731,952; Oct. 15.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronizing system. 1,732,734; Oct. 22.
- Thomas, Phillips, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronizing relay system. 1,734,239; Nov. 5.
- Thomas, R., & Sons Company, The. (See Eckert, Grandon E., assignor.)
- Thomas, R., & Sons Company, The. (See Holmes, Henry R., assignor.)
- Thomas, R., & Sons Company, The. (See Marvin, Richard H., assignor.)
- Thomas, Raymond G., San Diego, Calif. Water-vapor attachment for gas engines. 1,724,785; Aug. 13.
- Thomas, Reginald C., Brooklyn, N. Y. Ash tray and cigar extinguisher. 1,709,330; Apr. 16.
- Thomas, Rogers W. H., Roseville, Ohio. Demountable rim and tire lock. 1,702,139; Feb. 12.
- Thomas, Roy N., and G. H. Dorgeloh, East Orange, N. J., assignors to General Electric Company. Reversing motor-control system. 1,698,325; Jan. 8.
- Thomas, Samuel M., assignor of one-half to D. E. Anderson, Los Angeles, Calif. Luminescent sign. 1,720,155; July 9.
- Thomas, Stephen S., Lebanon, Ohio. Stove and the like. 1,706,264; Mar. 19.
- Thomas, Stephen S., Lebanon, Ohio. Oven and the like. 1,722,319; July 30.
- Thomas Stoker Company, The. (See Thomas, Charles W., assignor.)
- Thomas, Thomas H. (See Farmer, C. C., and Thomas.)
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train-control device. 1,703,907; Mar. 5.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,707,288; Apr. 2.
- Thomas, Thomas H., Edgewood, assignor to the Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-control device. 1,707,501; Apr. 2.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,711,760; May 7.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Split reduction device. 1,714,055; May 21.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,714,056; May 21.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,714,057; May 21.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,720,250; July 9.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,720,251; July 9.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric signal system. 1,723,219; Aug. 6.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Ignition-circuit switch. 1,727,384; Sept. 10.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Triple-valve device. 1,736,021; Nov. 19.
- Thomas, Thomas H., Edgewood, and C. A. Nelson, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,698,007; Jan. 8.
- Thomas, Thomas H., Edgewood, and C. A. Nelson, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,703,908; Mar. 5.
- Thomas, Thomas H., Edgewood, and C. A. Nelson, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,707,289; Apr. 2.
- Thomas, Thomas H., Edgewood, and J. N. Good, Wilmerding, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. 1,733,210; Oct. 29.
- Thomas, Thomas P. (See Marden, J. W., Thomas, and Conley.)
- Thomas, Victor W., Waukegan, Ill. Ignition device. 1,721,720; July 23.
- Thomas, Walter B., Blackwater, Mo. Timer cable and case. 1,709,443; Apr. 16.
- Thomas, William M., et al. (See Thomas, William M., assignor.)
- Thomas, William M., Los Angeles, Calif. Apparatus for photographically marking film during the exposing thereof. 1,741,386; Dec. 31.
- Thomas, William M., assignor, by mesne assignments, to W. M. Thomas and P. A. Leonard, Los Angeles, Calif. Projector for colored motion pictures. 1,741,385; Dec. 31.
- Thomas, William N., assignor to Sargent & Company, New Haven, Conn. Escutcheon plate or the like. Des. 79,215; Aug. 13.
- Thomas, William N., assignor to Sargent & Company, New Haven, Conn. Combined escutcheon plate and door-latch front. Des. 79,216; Aug. 13.
- Thomas, Willis P., assignor, by mesne assignments, to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,734,060; Nov. 5.
- Thomasson, Robert C., Des Moines, Wash. Apparatus for forming joints in concrete roadways. 1,718,840; June 25.
- Thomasson, Robert C., Everett, Wash. Road marker. 1,725,889; Aug. 27.



- Thomasson, William E., Parsons, Kans. Brake means for aeroplanes. 1,722,509; July 30.
- Thommens Uhrenfabriken A. G. (See Straumann, Reinhard, assignor.)
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Discharge mechanism for container-handling vessels. 1,701,765; Feb. 12.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Combined can feeder, drainer, and syrufer. 1,714,114; May 21.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Combined can feeder, drainer, and syrufer. 1,714,146; May 21.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can feeder for vertical coolers. 1,721,193; July 16.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Treating milk. 1,721,751; July 23.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Canning apparatus. 1,721,752; July 23.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Canning apparatus. 1,721,753; July 23.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Heat-treating apparatus for canned-goods coupling means. 1,725,319; Aug. 20.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Feed mechanism for pressure cookers. 1,729,633; Oct. 1.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Exhaust box. 1,736,891; Nov. 26.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Exhaust-box-floor construction. 1,739,808; Dec. 17.
- Thompson, Alfred P. (See Benner, R. C., and Thompson.)
- Thompson, Allison J., Cleveland, Ohio. Lamp hanger. 1,698,418; Jan. 8.
- Thompson, Allison J., Cleveland, Ohio. Shock absorber for lighting units. 1,709,444; Apr. 16.
- Thompson, Allison J., Cleveland, Ohio. Contact for lamp hangers. 1,732,622; Oct. 22.
- Thompson, Allison J., Cleveland, Ohio. Lamp-hanger structure. 1,736,512; Nov. 19.
- Thompson, Arthur A., Oakland, Calif. Compressed-air pipe cleaner. 1,705,051; Mar. 12.
- Thompson, Arthur W. (See Dann, W. M., Knotts, Thompson, and Hill.)
- Thompson, Arthur W., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Chemical container. 1,740,482; Dec. 24.
- Thompson, Atlas M., Groton, N. Y. Reinforced concrete fence post. 1,732,290; Oct. 22.
- Thompson, Augustus, F., Huntington, W. Va. Radiant gas heater. 1,738,335; Dec. 3.
- Thompson, Ayers F., Sunland, Calif. Pulverizer. 1,715,724; June 4.
- Thompson, Burchard D., Bradford, Pa. Core drill. 1,739,928; Dec. 17.
- Thompson, C. L. (See Worthington, Lester S., assignor.)
- Thompson, Carl G., St. Louis, Mo. Pusher airplane. 1,723,666; Aug. 6.
- Thompson, Charles, et al. (See Jobe, James I., assignor.)
- Thompson, Charles C., Glendale, Calif. Reinforced adobe block and wall construction. 1,702,096; Feb. 12.
- Thompson, Charles S., Park Ridge, and W. B. Long, assignors to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing machine. 1,725,943; Aug. 27.
- Thompson, Charles S., Park Ridge, and W. B. Long, assignors to Union Special Machine Company, Chicago, Ill. Filled-bag-closing machine. 1,735,362; Nov. 12.
- Thompson, Charles S., Park Ridge, and W. B. Long, assignors to Union Special Machine Company, Chicago, Ill. Needle-actuating mechanism for sewing machines. 1,737,395; Nov. 26.
- Thompson, Charles W., Quincy, assignor to H. C. Wheeler, Boston, Mass. Towel holder and filler for same. 1,701,817; Feb. 5.
- Thompson, Claude H., et al. (See Thompson, Claude H., assignor.)
- Thompson, Claude H., assignor, by mesne assignments, to C. H. Thompson and Stow Manufacturing Company, Binghamton, N. Y. Surface-polishing machine. 1,700,114; Jan. 22.
- Thompson, Claude H., assignor, by mesne assignments, to C. H. Thompson and Stow Manufacturing Company, Binghamton, N. Y. Polishing machine. 1,700,115; Jan. 22.
- Thompson, Cleve. (See Thompson, Thurm and C.)
- Thompson, Clifford F., Oak Park, assignor to Bodine Electric Company, Chicago, Ill. Stator for alternating-current motors. 1,735,222; Nov. 12.
- Thompson, Clifford F., Oak Park, assignor to Bodine Electric Company, Chicago, Ill. Stator for induction motors. 1,741,799; Dec. 31.
- Thompson, Clinton O. (See Martens, F. J., and Thompson.)
- Thompson, David, Philadelphia, Pa. Bedstead covering. 1,708,855; Apr. 9.
- Thompson, Dell, assignor of one-half to Drying Systems, Inc., Chicago, Ill. Conditioning-room construction. 1,728,097; Aug. 6.
- Thompson, Donald C., Roanoke, Va., assignor to The Viscose Company, Marcus Hook, Pa. Skeining reel. 1,715,315; May 28.
- Thompson, Don N., deceased, by E. C. Thompson, executrix, assignor to Pass & Seymour Inc., Syracuse, N. Y. Lighting fixture. 1,737,622; Dec. 3.
- Thompson, E. Albert. (See Albertson, Victor N., assignor.)
- Thompson, Earl, Posture Seating, Inc. (See Weldon, Everett D., assignor.)
- Thompson Electric Welding Company. (See Muir, James A., assignor.)
- Thompson, Elmer O., Tompkinsville, N. Y., assignor to American Telephone and Telegraph Company. Alternating-current relay. 1,717,475; June 18.
- Thompson, Emery, New Rochelle, N. Y. Ice-cream-freezing cylinder. 1,710,648; Apr. 23.
- Thompson, Ermine J. (See Hampton, W. O., and Thompson.)
- Thompson, Ernest H. (See Baur, H. J., and Thompson.)
- Thompson, Ernest H., Evanston, Ill., assignor to Johnson Fare Box Co. Solenoid-operated fare register. 1,699,930; Jan. 22.
- Thompson, Ernest H., Evanston, assignor to Johnson Fare Box Company, Chicago, Ill. Operating mechanism for fare registers. 1,706,989; Mar. 26.
- Thompson, Eva C., executrix. (See Thompson, Don N.)
- Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 1,705,344; Mar. 12.
- Thompson, Frank F., Chicago, Ill., assignor to Holmes Disappearing Bed Company, Woodstock, Ill. Bed. 1,721,754; July 23.
- Thompson, Frank F., Chicago, and R. J. Ellsworth, assignors to Holmes Disappearing Bed Company, Woodstock, Ill. Room in railroad cars. 1,721,755; July 23.
- Thompson, Frederick B., Hollywood, Calif., assignor, by decree of court, to Spoor-Thompson Machine Company. Film printer. 1,725,944; Aug. 27.
- Thompson, George, Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. 1,705,947; Mar. 19.
- Thompson, George G., Bronxville, N. Y., assignor to Ward Leonard Electric Company. Remote-control lighting system. 1,730,794; Oct. 8.
- Thompson, George H., Seattle, Wash., assignor to Thompson Propeller Securities Co. Screw propeller. 1,703,412; Feb. 26.
- Thompson, George K., Summit, N. J. Tile slab. 1,741,745; Dec. 31.
- Thompson, Gustave R., New York, N. Y. Shaving cup and support. 1,722,510; July 30.
- Thompson, Gustave R., assignor to Shelton-Janche Corporation, New York, N. Y. Apparatus and articles for waving hair. 1,720,865; July 16.
- Thompson, Gustave W., Brooklyn, assignor to National Lead Company, New York, N. Y. Treating lead alloys. 1,740,752; Dec. 24.
- Thompson, Hans, assignor of one-fourth to R. H. Dennis and one-fourth to J. J. Brady, Gridley, Calif. Tractor hitch for hay bunks. 1,705,318; Mar. 12.
- Thompson, Harry H., Kansas City, Mo., assignor to Radio Corporation of America, New York, N. Y. Sound system. 1,735,095; Nov. 12.
- Thompson, Helmer T. (See Grindahl, G. O., and Thompson.)
- Thompson, Helmer T., Staples, Minn. Storm-window fastener. 1,716,356; June 4.
- Thompson, Henry H., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,731,879; Oct. 15.
- Thompson, Henry O., assignor to E. Doney, Waupun, Wis. Lubricating means for pitman bearings. 1,705,596; Mar. 19.
- Thompson, Herbert A., assignor of one-half to Swinney Brothers Limited, Morpeth, England. Filtering or like device. 1,719,346; July 2.
- Thompson, Herbert L. (See McCain, B. Z., and Thompson.)
- Thompson, Herbert L., Elgin, assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Ejector for printing machines. 1,724,380; Aug. 13.
- Thompson, Herbert L., Elgin, assignor, by mesne assignments, to Addressograph Company, Chicago, Ill. Static eliminator. 1,731,030; Oct. 8.
- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,701,703; Feb. 12.
- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,702,552; Feb. 19.
- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,712,315; May 7.
- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,720,866; July 16.
- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,725,113; Aug. 20.
- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. 1,728,516; Sept. 17.



- Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,728,776; Sept. 17.
- Thompson, Howard A., Edgewood Borough, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,733,285; Oct. 29.
- Thompson, Howard E. (See Lonas, F. E., and Thompson.)
- Thompson, Hugh L. (See Nitz, G. F., assignor, and Murphy.)
- Thompson, Isaac T., assignor to The American Well Works, Aurora, Ill. Well-drilling machine. 1,697,211; Jan. 1.
- Thompson, James H., East Kew, Australia. Teapot. 1,736,381; Nov. 19.
- Thompson, James H., Trenton, assignor to Hussong Dyeing Machine Company, Groveville, N. J. Yarn rack. 1,707,102; Mar. 26.
- Thompson, James R., Tulsa, Okla. Jack. 1,732,175; Oct. 15.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,716,392; June 11.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,716,393; June 11.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,724,053; Aug. 13.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,724,151; Aug. 13.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,727,043; Sept. 3.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Manufacture of reticulated backs for friction blocks. 1,727,184; Sept. 3.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,729,139; Sept. 24.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,729,140; Sept. 24.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,734,753; Nov. 5.
- Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,734,754; Nov. 5.
- Thompson, James W. (See Knauer, J. S., and Thompson.)
- Thompson, John D., Union City, N. J., assignor to American Car and Foundry Company, New York, N. Y. Railway car. 1,727,680; Sept. 10.
- Thompson, John D., Union City, and V. Willoughby, Ridgewood, N. J., assignors to American Car and Foundry Company, New York, N. Y. Railway-car frame. 1,727,681; Sept. 10.
- Thompson, John E., London, England. Route-indicating means. 1,728,884; Sept. 17.
- Thompson, John I. (See Van Ackeren, J., and Thompson.)
- Thompson, John L., Meadow, Va. Storm excluder for doors and windows. 1,697,408; Jan. 1.
- Thompson, John M., deceased, and W. H. Thompson, Buffalo, N. Y.; W. H. Thompson, administrator of said John M. Thompson, assignor of one-half to Mary A. Thompson. Display device. 1,721,934; July 23.
- Thompson, John W., Stanmore, near Sydney, New South Wales, Australia. Concrete-building construction. 1,737,526; Nov. 26.
- Thompson, Joseph S., San Francisco, Calif. Tool for handling electric fuse tubes and the like. 1,704,491; Mar. 5.
- Thompson, Joseph W., and G. P. Cooper, London, England. Float for water cisterns or the like. 1,727,525; Sept. 10.
- Thompson, Lee O., Vancouver, Wash. Seat-positioning device. 1,719,815; July 2.
- Thompson, Le Roy J., Grand Rapids, Mich. Dispensing-tank structure. 1,718,393; June 25.
- Thompson, Louis W., Schenectady, N. Y., assignor, by mesne assignments, to Bailey Meter Company. Flow meter and the like. 1,699,126; Jan. 15.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Pressure-measuring instrument. 1,708,809; Apr. 9.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Pressure-measuring instrument. 1,717,280; June 11.
- Thompson Manufacturing Company. (See Thompson, Walter Van E., assignor.)
- Thompson, Mary A. (See Thompson, John M. and W. H., assignors.)
- Thompson, Merville S., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Indanthrone compound and making same. 1,731,800; Oct. 15.
- Thompson, Milton D., Fairhaven, Mass. Propeller or the like. 1,703,834; Feb. 26.
- Thompson, Milton W., Atlanta, Ga. Distributing system. 1,720,106; July 9.
- Thompson, Olof, New York, assignor to Takamine Corporation, Long Island city, N. Y. Magnetic switch. 1,722,642; July 30.
- Thompson, Orrin, Neenah, Wis. Bathtub. 1,704,639; Mar. 5.
- Thompson, Orville W., Chicago, Ill. Gauge. 1,701,735; Feb. 12.
- Thompson, Oscar T., assignor to Paper Patents Company, Neenah, Wis. Box blank. Des. 79,537; Oct. 1.
- Thompson, Oscar T., Neenah, Wis., assignor, by mesne assignments, to International Cellulotton Products Co., Chicago, Ill. Packaging machine. 1,708,686; Apr. 9.
- Thompson, Osceola C., Mountain Lakes, N. J., assignor to Wirebounds Patents Company. Machine for use in making boxes. 1,738,806; Dec. 10.
- Thompson, Paul W., J. W. Parker, and F. Thorp, Detroit, Mich. Protecting means for furnace linings and walls. 1,703,604; Feb. 26.
- Thomson, Peter, Wilmington, Del. Mixer and conveyor. 1,731,953; Oct. 15.
- Thompson Products, Incorporated. (See Bartlett, W. D., and Marquis, assignors.)
- Thompson Products, Inc. (See Bissell, Richard E., assignor.)
- Thompson Products Inc. (See Crawford, F. C., and Graham, assignors.)
- Thompson Products Inc. (See Graham, Matthew P., assignor.)
- Thompson Products Inc. (See Hufferd, George H., assignor.)
- Thompson Products Inc. (See Hufferd, G. H., and Graham, assignors.)
- Thompson Propeller Securities Co. (See Thompson, George H., assignor.)
- Thompson, Ralph P., Somerset County, Md. Filing machine. 1,735,223; Nov. 12.
- Thompson, Raymond, assignor of one-half to James F. and John C. Doran, copartners doing business under the name of Doran Brothers, Danbury, Conn. Animal trap. 1,732,919; Oct. 22.
- Thompson, Robert, Company. (See Darling, H. R., and Albertson, assignors.)
- Thompson, Robert J., Harrisburg, Pa. Internal-combustion-engine valve. 1,700,862; Feb. 5.
- Thompson, Robert L. (See Hubbard, H. E., McCain, and Thompson.)
- Thompson, Roy E., Nyack, N. Y. Sound-reproducing instrument. 1,710,035; Apr. 23.
- Thompson, Samuel E., Riggins, Idaho. Automatic latch. 1,701,429; Feb. 5.
- Thompson, Samuel R., St. Paul, Minn. Storm-window fixture. 1,701,516; Feb. 12.
- Thompson, Somerville W., trustee. (See Tillson, Edwin D., assignor.)
- Thompson, Sterling F., et al. (See Davis, Samuel P., assignor.)
- Thompson, Theodore. (See Moecker, H., jr., and Thompson.)
- Thompson, Theodore. (See Moecker, H., jr., Thompson, and Hammermeister.)
- Thompson, Thomas, Des Moines, Iowa. Handle-bar brace. 1,738,855; Dec. 10.
- Thompson, Thurm and C., Porterville, Calif. Trailer truck. 1,741,445; Dec. 31.
- Thompson, Vaughn N., et al. (See Kellogg, Alfred E., assignor.)
- Thompson, Walter V., Roselle Park, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Making cord tips. 1,706,005; Mar. 19.
- Thompson, Walter Van E., assignor to Thompson Manufacturing Company, Los Angeles, Calif. Sprinkler head. 1,741,665; Dec. 31.
- Thompson, Wayne B., Winchester, assignor to Spraco, Inc., Somerville, Mass. Apparatus or tool for applying coating material. 1,706,006; Mar. 19.
- Thompson, Wayne B., Winchester, Mass. Spraying. 1,729,634; Oct. 1.
- Thompson, Wayne B., Winchester, Mass. Spray gun. 1,741,169; Dec. 31.
- Thompson, William D., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Carbody construction. 1,737,527; Nov. 26.
- Thompson, William H. (See Thompson, John M. and W. H.)
- Thompson, William H., administrator. (See Thompson, John M. and W. H.)
- Thompson, William H., assignor of one-half to J. W. Duncan, Wichita Falls, Tex. Dusting machine. 1,727,526; Sept. 10.
- Thompson, William H., Chicago, Ill., assignor to International Harvester Company. Cultivator. 1,734,408; Nov. 5.
- Thompson, William O., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 77,377; Jan. 1.
- Thompson, William O., Pittsburgh, Pa., assignor to Standard Sanitary Mfg. Co. Flush-pipe housing. 1,731,031; Oct. 8.
- Thompson, Willsie A. S. (See Gray, J. L., Gunn, and Thompson.)
- Thoms, Louis, and W. H. Neely, Detroit, Mich., assignors to Graham Brothers, Inc., Evansville, Ind. Chassis or frame construction. 1,704,928; Mar. 12.
- Thomsen, Chris M., Pomona, Calif. Oil stove. 1,699,411; Jan. 15.
- Thomsen, Christoph. (See Dachlauer, K., and Thomsen.)
- Thomsen, K. P., et al., executors. (See Levin, Axel L.)
- Thomsen, Lars C., assignor to Tri-Clover Machine Co., Kenosha, Wis. Milk valve. 1,711,432; Apr. 30.
- Thomsen, Peter. (See Hartmann, O. H., and Thomsen.)



- Thomsen, Peter, Cassel, assignor to Schmidt'sche Heissdampf Gesellschaft m. b. H., Cassel-Wilhelmsbohe, Germany. Locomotive boiler. 1,730,867; Oct. 8.
- Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Refrigerating apparatus. 1,704,352; Mar. 5.
- Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Pump. 1,706,829; Mar. 26.
- Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Vibration absorber. 1,707,032; Mar. 26.
- Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Refrigeration. 1,730,486; Oct. 8.
- Thomson Electric Welding Company. (See Thornton, G. A., and Remington, assignors.)
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electrolytic apparatus and method of operation. 1,701,346; Feb. 5.
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Insulator. 1,717,281; June 11.
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric-arc welding. 1,717,530; June 18.
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Safety device for gas tanks. 1,723,959; Aug. 6.
- Thomson, Francis du P., Elkton, Md. Scaling tool. 1,727,915; Sept. 10.
- Thomson, George M., Caledonia, Ontario, assignor, by mesne assignments, to Canada Gypsum and Alabastine Company, Limited, Paris, Ontario, Canada. Production of dense foam. 1,737,623; Dec. 3.
- Thomson, George M., Caledonia, Ontario, assignor to Canada Gypsum and Alabastine Company, Limited, Paris, Ontario, Canada. Apparatus for the production of dense foam. 1,737,624; Dec. 3.
- Thomson, Judson L., Manufacturing Co. (See Bartel, William E., assignor.)
- Thomson, Judson L., Manufacturing Co. (See Havener, Arthur R., assignor.)
- Thomson, Judson L., Manufacturing Co. (See Rhodes, Austin D., assignor.)
- Thomson, McLeod, Chelsea, N. J., assignor to The Rail Joint Company, New York, N. Y. Rail joint. 1,713,410; May 14.
- Thomson National Press Co. (See Frauenberger, Carl F., assignor.)
- Thomson, Ralph K., Sioux Falls, S. Dak. Broom. 1,711,433; Apr. 30.
- Thomson, S. H., Manufacturing Company, The (See Hummert, Robert H., assignor.)
- Thomson, Samuel P., and H. C. Rockhill, Fort Wayne, Ind. Corrugating machinery. 1,699,412; Jan. 15.
- Thomson, Thomas L., et al. (See Reece, V. M., and Armstrong, assignors.)
- Thomson, William S., assignor to The Tobrin Tool Company, Plantsville, Conn. Screw driver. 1,712,484; May 14.
- Thomssen, Edgar G. (See Shugart, G., and Thomssen.)
- Thomssen, Edgar G., Winona, Minn. Sealing device. 1,723,260; Aug. 6.
- Thonet, Joseph R., Wakefield, assignor to Sprague-Hathaway Manufacturing Co., Somerville, Mass. Photograph-enlarging machine. 1,712,854; May 14.
- Thonet, Joseph R., Wakefield, assignor to Sprague-Hathaway Manufacturing Co., Somerville, Mass. Photograph-printing machine. 1,737,440; Nov. 26.
- Thordarson Electric Manufacturing Company. (See Pearson, Oscar A., assignor.)
- Thorelli, Hans W. R., Norrviken, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Machine-driven selector. 1,710,750; Apr. 30.
- Thoren, Gustaf R., et al. (See Swanson, Charles J., assignor.)
- Thorens, Ernest, assignor to H. Thorens, Ste. Croix, Switzerland. Musical box. 1,720,772; July 16.
- Thorens, Hermann. (See Thorens, Ernest, assignor.)
- Thoresen, Ralph S., Boston, Mass., assignor to Petroleum Heat and Power Company, New York, N. Y. Lubricating system for oil burners. 1,718,766; June 25.
- Thormann, Wilhelm, Hanover-Linden, Germany. Articulated tank locomotive. 1,740,797; Dec. 24.
- Thordike Company. (See Brewer, Warren, assignor.)
- Thorn, Charles, Philadelphia, and W. C. McWhirter, Wilkinsburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway-switch-operating mechanism. 1,732,957; Oct. 22.
- Thorn, Isak. (See Deutsch, L., and Thorn.)
- Thorn, William E., assignor to The Ives Corporation, Bridgeport, Conn. Rheostat. 1,704,775; Mar. 12.
- Thornblade, Carl H., Seattle, Wash., assignor to Original Copywriter Co. Multicopy attachment. 1,707,744; Apr. 2.
- Thordike Company. (See Brewer, Warren, assignor.)
- Thorne-Baker, Thomas, assignor of one-third to C. H. Watson and one-third to F. W. W. Baker, London, England. Synchronizing the telegraphing of pictures. 1,701,966; Feb. 12.
- Thorne, Maurice A., assignor to The Studebaker Corporation, South Bend, Ind. Brake. 1,712,855; May 14.
- Thorne, Robert H., Williamsport, Pa. Valve. 1,717,859; June 18.
- Thorne, William F., Pasadena, Calif. Card game. 1,705,883; Mar. 19.
- Thorngate, Bruce, assignor to Warwick China Company, Wheeling, W. Va. Plate or similar article. Des. 78,415; Apr. 30.
- Thornhill-Anderson Company. (See Thornhill, Edwin B., assignor.)
- Thornhill, Edwin B., Long Beach, Calif., assignor to Thornhill-Anderson Company, Muskogee, Okla. Furnace for treatment of materials. 1,705,039; Mar. 12.
- Thornley, Albert E., Pawtucket, assignor to Narragansett Machine Company Providence, R. I. Cooling-device stand. 1,707,203; Mar. 26.
- Thornley, Sidney. (See Baddiley, J., Dootson, Shepherdson, and Thornley.)
- Thornley, William H., et al., trustees. (See Noble, Warren, assignor.)
- Thornton, Arthur A. (See Cox, J. F., Thornton, Carroll, and Stoveken.)
- Thornton, Arthur G., Edinburgh, Scotland. Bag or carrier. 1,737,065; Nov. 26.
- Thornton, Bert, Slaton, Tex. Gas burner. 1,712,410; May 7.
- Thornton, David W., Tacoma, Wash. Door hinge. 1,701,022; Feb. 5.
- Thornton, Frank. (See Forshee, F. F., and Thornton.)
- Thornton, Frank jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric toaster. 1,731,402; Oct. 15.
- Thornton, George A., Schenectady, N. Y., and W. Remington, Swampscott, assignors to Thomson Electric Welding Company, Lynn, Mass. Regulating secondary current and voltage in transformers. 1,714,962; May 28.
- Thornton, George A., Schenectady, N. Y., and W. Remington, Swampscott, assignors to Thomson Electric Welding Company, Lynn, Mass. Electric welding apparatus. 1,715,017; May 28.
- Thornton, George R. (See Schekall, J. J., and Thornton.)
- Thornton, John E. (See Romer, James F., assignor.)
- Thornton, John E., London, England. Cinematograph positive film. 1,700,521; Jan. 29.
- Thornton, John E., London, England. Multicolor cinematograph and other films. 1,700,616; Jan. 29.
- Thornton, John E., London, England. Cinematograph-film material. 1,700,617; Jan. 29.
- Thornton, John E., London, England. Multicolor cinematograph and other film. 1,707,825; Apr. 2.
- Thornton, John E., London, assignor to J. O. O'Brien, Manchester, England. Multicolor cinematograph and other film. 1,735,810; Nov. 12.
- Thornton, John E., London, assignor to J. O. O'Brien, Manchester, England. Multicolor cinematograph and other film and producing the same. 1,735,811; Nov. 12.
- Thornton, John E., Jersey, Channel Islands, assignor to John O. O'Brien, Manchester, England. Process and apparatus for the production of relief images on cinematograph film strips. 1,736,557; Nov. 19.
- Thornton, John E., West Hampstead, London, England. Multicolor cinematograph and other films. 1,700,618; Jan. 29.
- Thornton, John E., West Hampstead, London, England. Multicolor cinematograph and other films and making same. 1,735,813; Nov. 12.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Spool case for cinematograph and optical projection apparatus. 1,716,990; June 11.
- Thornton, John E., West Hampstead, assignor to J. O. O'Brien, Manchester, England. Cinematograph film. 1,735,812; Nov. 12.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Color photography and sensitized material therefor. 1,736,554; Nov. 19.
- Thornton, John E., West Hampstead, London, England. Multicolor cinematograph film. 1,736,555; Nov. 19.
- Thornton, John E., West Hampstead, London, assignor to J. O. O'Brien, Manchester, England. Multicolor cinematograph film material. 1,736,556; Nov. 19.
- Thornton, R. P. (See Thayer, William E., assignor.)
- Thornton, Renee, New York, N. Y. Box cover. Des. 80,195; Dec. 24.
- Thornton, Richard W., Denver, Colo. Playground apparatus. 1,736,678; Nov. 19.
- Thornton, Richard W., Denver, Colo. Playground apparatus. 1,737,066; Nov. 26.
- Thornton, Robert P. (See Singleton, G., and Thornton.)
- Thornton, William C., and J. M. Cameron, Johnson City, Tenn., assignor of one-third to H. M. Smith. Mechanical store. 1,724,235; Aug. 13.
- Thornton, William M., Newcastle-upon-Tyne, England. Electric lamp for use in mines. 1,727,185; Sept. 3.
- Thornycroft, Tom, Westminster, England. Cylinder of an internal-combustion engine. 1,708,856; Apr. 9.
- Thorp, Frank. (See Thompson, P. W., Parker, and Thorp.)
- Thorp, James M., Alameda, Calif. Body suspension for motor vehicles. 1,727,737; Sept. 10.
- Thorp, Joel R. (See Winning, R. K., and Thorp.)
- Thorp, Vaughn P. (See Affel, H. A., Hamilton, Thorp, and Clapp.)
- Thorp, Vaughn P., River Edge, N. J., assignor to American Telephone and Telegraph Company. Carrier telegraph alarm system. 1,723,220; Aug. 6.
- Thorp, George G., assignor of one-half to J. Coull, Wanganui, New Zealand. Pedal control for motor vehicles. 1,718,884; June 25.
- Thorp, Jay, Inc. (See Mayer, Maxime, assignor.)



- Thorpe, Joseph M., San Francisco, Calif. Furring nail. 1,705,651; Mar. 19.  
 Thorpe, Samuel T. (See Broadwell, H. S. and Thorpe.)  
 Thorpe, William H., Mount Vernon, N. Y. Thermopile and manufacture. 1,706,419; Mar. 26.  
 Thorsby, Karl J., Oakland, assignor to California Corrugated Culvert Company, Berkeley, Calif. Spiral-pipe machine. 1,739,774; Dec. 17.  
 Thorsen, Karl K. A., San Francisco, Calif. Retreading mold. 1,703,970; Mar. 5.  
 Thorsley, John P., Portland, Oreg. Window support. 1,713,935; May 21.  
 Thorsteinson, Dora, Point Roberts, Wash. Stove. Des. 79,051; July 23.  
 Thrasher, Charles E., and D. A. Cooper, Dayton, Ohio. Golf practice set. 1,730,176; Oct. 1.  
 Thrasher, Joe T. (See Bible, P. L., and Thrasher.)  
 Thrift, Griffin C., Houston, Tex. Elevator. 1,705,145; Mar. 12.  
 Thrift, Griffin C., Houston, Tex. Propeller guard. 1,735,912; Nov. 19.  
 Throgmorton, Charles S., Brinkley, Ark. Surgical appliance. 1,709,046; Apr. 16.  
 Throm, Albert J., Jeannette, Pa. Glass mold. 1,736,637; Nov. 19.  
 Thronsen, Sigurd. (See Arkema, H. P., and Thronsen.)  
 Throop, Damon R., Stockton, Calif. Leveler. 1,699,167; Jan. 15.  
 Throop, Damon R., Stockton, Calif. Control mechanism for revolving scrapers. 1,719,247; July 2.  
 Thropp, Charlotte M., coexecutor. (See Thropp, P. D., and Moreland.)  
 Thropp, John E., coexecutor. (See Thropp, P. D., and Moreland.)  
 Thropp, Peter D., deceased; J. E. Thropp, coexecutor, and C. M. Thropp, coexecutor, and L. A. Moreland, assignors to The De Laski & Thropp Circular Woven Tie Company, Trenton, N. J. Tire-making machine. 1,721,842; July 23.  
 Thuerman, Wilfred J., assignor to Chain Belt Company, Milwaukee, Wis. Drive and power transmitting chain. 1,707,204; Mar. 26.  
 Thullen, Louis H., Upper Montclair, N. J. Switch operating and locking device. 1,712,856; May 14.  
 Thum, Martin, Rochester, N. Y. Furniture. 1,725,685; Aug. 20.  
 Thum, Martin, Rochester, N. Y. Furniture. 1,726,778; Sept. 3.  
 Thum, Walter A., St. Louis, Mo., assignor to G. W. Heintz, New Orleans, La. Racing apparatus. 1,706,265; Mar. 19.  
 Thune, Helmer N., Climax, Minn. Tire gauge. 1,722,345; July 30.  
 Thuras, Albert L., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,700,457; Jan. 29.  
 Thuras, Albert L., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrodynamic device. 1,707,544; Apr. 2.  
 Thuras, Albert L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrodynamic device. 1,729,806; Oct. 1.  
 Thurber, Ezra J., Seattle, Wash. Battery connection. 1,738,157; Dec. 3.  
 Thurgar, H. D., Limited. (See Génard, Lucien, assignor.)  
 Thurlby, Truman, Detroit, and A. L. Turrill, Fordson, Mich. Caster. 1,731,640; Oct. 15.  
 Thurm, Alfred. (See Spengler, O., and Thurm.)  
 Thurm, Richard, assignor to Baker Perkins Company, Incorporated, Saginaw, Mich. Tubular burner. 1,727,527; Sept. 10.  
 Thurman, John S., St. Louis, Mo. Tank and sack for harvesting machines. 1,703,503; Feb. 26.  
 Thurman, John S., St. Louis, Mo. Vacuum cotton-picking nozzle. 1,733,211; Oct. 29.  
 Thurman, John S., St. Louis, Mo. Cotton harvester. 1,736,233; Nov. 19.  
 Thurman, William B., and M. W. Hild, Stockton, Calif., assignors to Fireproof Wall Company, Reno, Nev. Securing plaster board in place. 1,737,100; Nov. 26.  
 Thurneyssen, Guy T., Paris, France. Electron device. 1,725,945; Aug. 27.  
 Thursty, Arthur P., St. Louis, Mo. Display fixture. 1,710,847; Apr. 30.  
 Thurston, Arthur L., Hammondsport, assignor to C. H. Keel, trustee, New York, N. Y. Aerofoil or wing construction for aircraft. 1,697,151; Jan. 1.  
 Thurston, Arthur L., and H. T. Booth, Hammondsport, N. Y., assignors to C. H. Keel, trustee, New York, N. Y. Aircraft. 1,721,935; July 23.  
 Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Electric-current control. 1,709,924; Apr. 23.  
 Thurston, Ernest B., assignor to The Haughton Elevator & Machine Co., Toledo, Ohio. Elevator-control system. 1,709,962; Apr. 23.  
 Thurston, Ernest B., assignor to The Haughton Elevator & Machine Company, Toledo, Ohio. Elevator control. 1,714,285; May 21.  
 Thurston, Ernest B., assignor to The Haughton Elevator & Machine Company, Toledo, Ohio. Determined travel safety control. 1,738,214; Dec. 3.  
 Thurston, Ernest B., and F. L. Ohler, assignors to The Haughton Elevator & Machine Company, Toledo, Ohio. Travel-control device for elevators. 1,738,215; Dec. 3.  
 Thurston, George M. (See Gabriel, J. C., and Thurston.)  
 Thurston, Jolly W., Richmond, Va. Gasoline-dispensing pump. 1,715,257; May 28.  
 Thurston, Marcus R., Salt Lake City, Utah. Cutting and measuring device for suction dredges. 1,701,430; Feb. 5.  
 Thurstone, Conrad, Pittsburgh, Pa. Projection machine. 1,699,169; Jan. 15.  
 Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Testing machine. 1,709,638; Apr. 16.  
 Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Thermopile. 1,715,316; May 28.  
 Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Temperature-indicating means. 1,730,308; Oct. 1.  
 Thwing, Charles B., assignor to Thwing Instrument Company, Philadelphia, Pa. Pyrometer. 1,734,837; Nov. 5.  
 Thwing Instrument Company. (See Thwing, Charles B., assignor.)  
 Thyberg, Alfred C. (See Ericson, A. E., and Thyberg.)  
 Thye, Carl J., St. Louis County, Mo. Soundproof folding partition. 1,698,744; Jan. 15.  
 Thye, Carl J., St. Louis County, Mo. Metallic door or window casing. 1,715,579; June 4.  
 Tibbals, Albert D., Chicago, Ill. Stapling machine. 1,713,011; May 14.  
 Tibbals, Albert D., St. Louis, Mo. Staple strip and making same. 1,727,574; Sept. 10.  
 Tibbals, Frank A. (See Parsons, N. B., Woodruff, and Tibbals.)  
 Tibbetts, Charles B., Walpole, and H. L. Sawyer, Lynn, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. 1,741,486; Dec. 31.  
 Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Fastening device. 1,704,228; Mar. 5.  
 Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle indicator. 1,708,708; Apr. 9.  
 Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Lock mechanism. 1,708,709; Apr. 9.  
 Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,712,461; May 7.  
 Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Locking mechanism. 1,726,202; Aug. 27.  
 Tice, Clifford L., Pendleton, Oreg. Current meter. 1,709,100; Apr. 16.  
 Tice, Percival S., Chicago, Ill. Carburetor. 1,725,227; Aug. 20.  
 Tice, Percival S., Chicago, Ill. Carbureting system for internal-combustion engines. 1,737,813; Dec. 3.  
 Tichenor, Carl M., (See Evans, E. R., and Tichenor.)  
 Tichy, Frederick. (See Szeliga, Anton, assignor.)  
 Tidal Oil Company. (See Small, George B., assignor.)  
 Tidball, John A., Dallas, Tex., assignor to The International Derrick and Equipment Company, Columbus, Ohio. Crown and traveling block pulley. 1,726,507; Aug. 27.  
 Tidd, George N. (See Sindeband, M. L., Tidd, and Milnor.)  
 Tide Water Oil Company. (See Bertschinger, Charles F., assignor.)  
 Tide Water Oil Company. (See Chitty, William C., assignor.)  
 Tideman, Carl E., assignor to Burlingame Machine Company, Worcester, Mass. Wire-drawing machine. 1,737,345; Nov. 26.  
 Tidman, Frederick H., and F. S. Partridge, Oklahoma City, Okla. Holding means and kit for signaling apparatus for disabled vehicles. 1,733,173; Oct. 29.  
 Tiedemann, Eugene, Middleton, Wis. Corn-binder cutting mechanism. 1,729,280; Sept. 24.  
 Tiedemann, Eugene, Middleton, Wis. Protractor. 1,732,546; Oct. 22.  
 Tiedemann, Henry F., assignor to Theo. Tiedemann & Sons, Inc., New York, N. Y. Textile fabric. Des. 79,613; Oct. 15.  
 Tiedemann, Theo., & Sons, Inc. (See Schweizer, Hans, assignor.)  
 Tiedemann, Theo., & Sons, Inc. (See Tiedemann, Henry F., assignor.)  
 Tiemann, George, Joliet, Ill. Egg case. 1,720,579; July 9.  
 Tiengen, Martha A., New York, N. Y. Hair-waving device. 1,709,693; Apr. 16.  
 Tierce, Willard R., Vernon, Tex. Standing-valve puller. 1,720,979; July 16.  
 Tierney, John J., New York, N. Y. Glove-cleaning device. 1,736,679; Nov. 19.  
 Tierney, Michael J., Rochester, N. Y. Refuse-disposal apparatus. 1,724,236; Aug. 13.  
 Tierney, Philip W., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing scale for photographic cameras. 1,730,956; Oct. 8.  
 Tietz, Herman J., San Pedro, Calif. Electric heater. 1,727,573; Sept. 10.  
 Tiffany, Callie D., Jackson, Tenn. Stirring spoon. 1,717,282; June 11.  
 Tiffany, John B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for making tubular articles. 1,732,781; Oct. 22.  
 Tiffany, John B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for constructing tubes. 1,735,303; Nov. 12.  
 Tiffany, Tolbert K., Trenton, N. J., assignor to J. H. Bell, Philadelphia, Pa. Incubator. 1,722,973; July 30.



- Tiffany, Tolbert K., Trenton, N. J., assignor to J. H. Bell, Philadelphia, Pa. Incubator. 1,740,433; Dec. 17.
- Tift, Charles A., Holyoke, Mass. Paper making. 1,708,434; Apr. 9.
- Tift, Emerson B., Cohoes, N. Y., assignor to Draper Corporation, Hopedale, Mass. Automatically-threading shuttle for looms. 1,739,994; Dec. 17.
- Tift, Thomas D., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Hot-oil pump. 1,701,166; Feb. 5.
- Tift, Thomas D., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Hot-oil pump. 1,701,198; Feb. 5.
- Tift, Thomas D., Chicago, Ill., and A. C. Vobach, Whiting, Ind., assignors to Sinclair Refining Company, New York, N. Y. Refining hydrocarbons. 1,736,022; Nov. 19.
- Tighe, Hugh B., assignor to F. C. Traver Paper Company, Chicago, Ill. Packing tray or device. 1,715,685; June 4.
- Tilbe, Everette O., Ontario, Calif. Illuminated sign. 1,740,845; Dec. 24.
- Tilberg, Vernie, Cambridge, Ill. Gate. 1,699,168; Jan. 15.
- Tilden, Bert O., assignor to B. O. T. Mfg. Co., Trenton, N. J. Cabinet for flush tank. Des. 80,196; Dec. 24.
- Tilden, Bert O., assignor to B. O. T. Manufacturing Company, Trenton, N. J. Water-closet combination. Des. 80,197; Dec. 24.
- Tilden, Bert O., assignor to B. O. T. Mfg. Co., Trenton, N. J. Cabinet for flush tanks. 1,710,036; Apr. 23.
- Tilden, James A., assignor to Hersey Manufacturing Company, South Boston, Mass. Valve. 1,725,428; Aug. 20.
- Tiller, David M., and W. W. Ferree, Kansas City, Mo. Process and composition for treating metals. 1,731,641; Oct. 15.
- Tiller, Dixie E., et al. (See Fraser, Fred W., assignor.)
- Tillery, Lynn B. (See Lynch, G. G., and Tillery.)
- Tilley, Clarence B., Baltimore, Md., assignor to General Chemical Company, New York, N. Y. Cleaning driers and apparatus therefor. 1,727,843; Sept. 10.
- Tilley, John W., assignor of one-half to T. J. Fletcher, Whites Creek, W. Va. Floor-suffacing machine. 1,699,638; Jan. 22.
- Tilley, Milton, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Electric-furnace lining. 1,732,623; Oct. 22.
- Tilley, Norman L., Fisher, Ark. Railroad-rail-supporting structure. 1,711,186; Apr. 30.
- Tillman, Ferdinand J., St. Louis, Mo., assignor to Remington Rand Inc., New York, N. Y. Card selecting and raising device. 1,722,601; July 30.
- Tillman, George A., Vancouver, Wash. Resilient tire. 1,727,141; Sept. 3.
- Tillmanns, Carl W., Bridgeport, Conn. Knife handle. Des. 77,989; Mar. 12.
- Tillmanns, Carl W., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Handled tool. 1,701,467; Feb. 5.
- Tillotson Manufacturing Company, The. (See Ritter, George F., assignor.)
- Tillson, Edwin D., Evanston, assignor to S. W. Thompson, trustee, Chicago, Ill. Bowl for indirect-lighting fixtures. Des. 79,999; Nov. 26.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. Re17,435; Sept. 17.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,697,030; Jan. 1.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Automatically-operated screen for projection apparatus. 1,700,656; Jan. 29.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens. 1,721,194; July 16.
- Tillyer, Edgar D., and E. L. Godfrey, assignors to American Optical Company, Southbridge, Mass. Goggles. 1,722,602; July 30.
- Tilney, Merritt W., Seattle, Wash. Automobile bed. 1,741,592; Dec. 31.
- Tilton, John A., Stanstead, Quebec, Canada. Portable fence. 1,703,372; Feb. 26.
- Tilt-Top Cap Company, The. (See Church, Edmund S., assignor.)
- Timblin, William S., River Forest, Ill. Umbrella. 1,732,867; Oct. 22.
- Timbs, Edward, Los Angeles, and L. E. Zerbe, Moneta, Calif., assignors to The National Supply Company of Delaware, New York, N. Y. Slush-plump valve. 1,714,740; May 28.
- Time-O-Stat Controls Company. (See Johnson, Roy W., assignor.)
- Time-O-Stat Controls Company. (See Phelan, Louis A. M., assignor.)
- Time-O-Stat Controls Company. (See Luthe, J. K., and Johnson, assignors.)
- Time-O-Stat Company, The. (See Johnson, Roy W., assignor.)
- Time-O-Stat Corporation. (See Phelan, Louis A. M., assignor.)
- Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
- Timken-Detroit Axle Company, The. (See Brussel, John W., assignor.)
- Timken-Detroit Company, The. (See Hvorslef, Fredrik W., assignor.)
- Timken-Detroit Company, The. (See Powers, Milton A., assignor.)
- Timken, Henry H., assignor to The Timken Roller Bearing Company, Canton, Ohio. Manufacture of rollers for roller bearings. 1,701,736; Feb. 12.
- Timken Roller Bearing Company. (See Buckwalter, Tracy V., assignor.)
- Timken Roller Bearing Company, The. (See Curtis, George W., assignor.)
- Timken Roller Bearing Company, The. (See Eastburg, Clifford L., assignor.)
- Timken Roller Bearing Company, The. (See Else, Harry D., assignor.)
- Timken Roller Bearing Company, The. (See Feit, Paul P., assignor.)
- Timken Roller Bearing Company, The. (See Hektner, Joel, assignor.)
- Timken Roller Bearing Company, The. (See Hicks, Irving C., assignor.)
- Timken Roller Bearing Company, The. (See Horger, Oscar J., assignor.)
- Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)
- Timken Roller Bearing Company, The. (See Maag, Oscar L., assignor.)
- Timken Roller Bearing Company, The. (See Proffitt, Russell P., assignor.)
- Timken Roller Bearing Company, The. (See Schlaupitz, Oswald, assignor.)
- Timken Roller Bearing Company, The. (See Streby, Ray D., assignor.)
- Timken Roller Bearing Company, The. (See Timken, Henry H., assignor.)
- Timken Roller Bearing Company. (See Umstatdt, William E., assignor.)
- Timken Roller Bearing Company, The. (See Weckstein, Samson M., assignor.)
- Timm, Hans, Rissen, near Hamburg, Germany. Support for menus or bills of fare. 1,732,389; Oct. 22.
- Timm, Otto W., Eagle Rock, Calif. Coin tester and slug eliminator for vending machines. 1,722,690; July 30.
- Timm, Otto W., Eagle Rock, Calif. Automatic selective vending machine. 1,739,186; Dec. 10.
- Timm, William A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for heat treating metals. 1,713,790; May 21.
- Timmons, Archie, Orange, Tex. Safety hanger or display device. 1,716,251; June 4.
- Timmons, William D., Coshocton, Ohio. Fabric-coating machine. 1,729,368; Sept. 24.
- Timms, William B., Elyria, assignor of one-half to H. S. Canfield, Toledo, Ohio. Lost-motion take-up and centering installation. 1,729,655; Oct. 1.
- Timpano, Joseph, et al. (See Fiore, Lorenzo A., assignor.)
- Timson, William, assignor to W. & T. Avery Limited, Birmingham, England. Automatic weighing device. 1,740,798; Dec. 24.
- Tin Decorating Company of Baltimore, The. (See Hermani, Henry, assignor.)
- Tingle, Alfred, Ottawa, Ontario, Canada. Producing fiber. 1,714,831; May 28.
- Tingley, Leonard C., assignor to Federal Products Corporation, Providence, R. I. Cover plate for measuring instruments. 1,723,390; Aug. 6.
- Tinker, Herbert W., assignor to Federal Pressed Steel Company, Milwaukee, Wis. Apparatus for treating steel. 1,709,160; Apr. 16.
- Tinker, John M. (See Gubelmann, I., and Tinker.)
- Tinker, John M., and I. Gubelmann, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. Producing ortho-acyl-benzoic acid compounds. 1,713,569; May 21.
- Tinnerman, Albert H., Cleveland, Ohio. Stove-door construction. 1,708,455; Apr. 9.
- Tinnerman, Albert H., Cleveland, Ohio. Stove construction. 1,718,308; May 14.
- Tinsley, Edward O., assignor to Robert Gair Company, New York, N. Y. Collapsible display container with automatic lock. 1,704,377; Mar. 5.
- Tinsley, Edward O., assignor to Robert Gair Company, New York, N. Y. Sealed carton and method of testing contained articles. 1,713,631; May 21.
- Tinsley, Edward O., assignor to Robert Gair Company, New York, N. Y. Cradle container. 1,720,016; July 9.
- Tinsley, Edward O., assignor to Robert Gair Company, New York, N. Y. Tilt bottom display container. 1,729,847; Oct. 1.
- Tippet, Philip V., assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Wire-drawing apparatus. 1,697,888; Jan. 8.
- Tippet, Philip V., assignor to the Vaughn Machinery Company, Cuyahoga Falls, Ohio. Wire-drawing mechanism. 1,723,316; Aug. 6.
- Tip's Tool Company. (See Bodendieck, Henry W., assignor.)
- Tip's Tool Company. (See Bodendieck, H. W., and Tipsord, assignors.)
- Tip's Tool Company Incorporated. (See Bodendieck, H. W., and Tipsord, assignors.)
- Tipsord, Melvin T. (See Bodendieck, H. W., and Tipsord.)
- Tipton, Edna S., New York, N. Y. Shaving compact. 1,708,745; Apr. 9.
- Tipton, Ray L., Chicago, Ill. Safety razor. 1,698,206; Jan. 8.



- Tiranty, Philippe H. L., Paris, France. Postmarking apparatus. 1,697,031; Jan. 1.
- Tire Pop-Valve Company. (See Sutton, George A., assignor.)
- Tirifahy, Léon, Charleroi, Belgium. Expanded sheet metal. 1,714,053; May 21.
- Tisdale, James R., Vancouver, British Columbia, Canada. Recording device for automobiles and the like. 1,706,046; Mar. 19.
- Tisdale, James R. M. (See Taylor, Charles H., assignor.)
- Tisdale, James R. McK., Vancouver, British Columbia, Canada. Recorder. 1,706,047; Mar. 19.
- Tisdall, Trevor H., Brooklyn, assignor to Columbia Machine Works and Malleable Iron Co., New York, N. Y. Trolley wheel. 1,733,762; Oct. 29.
- Tise, Thomas H., Winston-Salem, N. C. Reinforced beam construction. 1,733,677; Oct. 29.
- Tishlarich, Ottmar M. (See Gross, H. E., and Tishlarich.)
- Tismer, Friedrich, Berlin, Germany. Propulsion screw. 1,717,745; June 18.
- Tissot, Edouard L., Basel, Switzerland. Display apparatus. 1,701,132; Feb. 5.
- Tissue Company, The. (See Coons, Charles H., assignor.)
- Tissue Company, The. (See Schoonmaker, Edwin B., assignor.)
- Titanium Alloy Manufacturing Company, The. (See Kinzie, Charles J., assignor.)
- Titanium Pigment Co. (See Doerincel, F., and Mehler, assignors.)
- Titanium Pigment Company. (See Ryan, Lonnie W., assignor.)
- Titcomb, Albert S., Providence, R. I. Power boat. 1,710,904; Apr. 30.
- Titcomb, Lee R., Brooklyn, assignor to Auto-Meter Co. Inc., New York, N. Y. Liquid-measuring device. 1,735,023; Nov. 12.
- Titcomb, Lee R., Brooklyn, and H. S. Ashmun, New York, N. Y. Mechanism for raising sewage. 1,713,791; May 21.
- Titflex Metal Hose Co. (See Stone, R. Harry, assignor.)
- Titgen, Harry W., Philadelphia, Pa. Dust collector. 1,729,527; Sept. 24.
- Title, Benjamin J., Jacksonville, Fla. Pencil attachment. 1,702,954; Feb. 19.
- Titman Carburetor & Motor Devices Company. (See Titman, Russell, assignor.)
- Titman, Russell, Rahway, N. J., assignor to Titman Carburetor & Motor Devices Company. Carburetor. 1,700,863; Feb. 5.
- Titmas Company. (See Titmas, R. W., and Hickish, assignors.)
- Titmas, Reginald W., London, England, and R. S. Hickish, La Ceiba, Spanish Honduras, Central America, assignors to Titmas Company, Inc., New Orleans, La. Coconut-husking machine. 1,724,739; Aug. 13.
- Tittel, Ernest. (See Weidmann, L., and Tittel.)
- Tittelbach, Fritz, Neudernitz, near Niesky, assignor to Christoph & Unmack Action-Gesellschaft, Niesky, Germany. Rail vehicle. 1,703,462; Feb. 26.
- Tittmore, Frank A., and C. S. Renwick, Richmond, assignors to Hopkins Spray Equipment Company, San Francisco, Calif. Pressure regulator and tank cover for paint-spraying machines. 1,698,247; Jan. 8.
- Titterington, George A., executor. (See Colvin, C. H., and Titterington.)
- Titterington, Morris M. (See Colvin, C. H., and Titterington.)
- Titterington, Morris M., assignor to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Hydrostatic gauge. 1,711,506; May 7.
- Titterington, Morris M., assignor, by mesne assignments, to Pioneer Instrument Company, Incorporated, Brooklyn, N. Y. Continuously-indicating hydrostatic gauge. 1,711,507; May 7.
- Tittle, Walter. (See Zearing, R. M., jr., and Tittle.)
- Titus, Leon D. (See Doiron, H. P., and Titus.)
- Titus, Robert R. (See Bengel, F. H., and Titus.)
- Titus, Weimar H., New York, N. Y. Universal exercising device. 1,698,831; Jan. 15.
- Tjaarda, John, Rochester, N. Y., assignor to Chrysler Corporation, Detroit, Mich. Radiator shell. Des. 80,057; Dec. 3.
- Tjelde, Odin, Seattle, Wash. Trestle. 1,699,035; Jan. 15.
- Tjernlund, Emil J., St. Paul, Minn., assignor, by direct and mesne assignments, to J. J. Burgess, Rock Island, Ill. Shears. 1,720,305; July 9.
- Tjernlund, Emil J., St. Paul, Minn. Calipers. 1,731,954; Oct. 15.
- Tjossem, Kinney, Paullina, Iowa. Fly chaser. 1,728,842; Sept. 17.
- Thucka, Louis, Paterson, N. J. Stocking. Des. 79,682; Oct. 22.
- Thucka, Louis, assignor to Mission Hosiery Mills, Los Angeles, Calif. Stocking. Des. 77,658; Feb. 5.
- Tobler, Max E., Detroit, Mich. Self-lubricating guide pin. 1,705,345; Mar. 12.
- Tobler, Max E., Detroit, Mich. Removable tool holder. 1,723,824; Aug. 6.
- Tobey, Charles W., Fairhaven, assignor to M. M. Rhodes & Sons Co., Taunton, Mass. Insulated staples. 1,705,144; Mar. 12.
- Tobey, Fred W., Grand Rapids, Mich. Card-tray cabinet. 1,728,946; Sept. 24.
- Tobey, Harry W., Pittsfield, Mass., assignor to General Electric Company. Apparatus for line welding. 1,728,812; Sept. 17.
- Tobey, Thomas J. (See Shuell, F. W., Ledbetter, and Tobey.)
- Tobey, Walter H., Upper Darby, assignor to Main Belting Company, Philadelphia, Pa. Belt. 1,697,035; Jan. 8.
- Tobin, Daniel, Chicago, Ill. Protecting device. 1,740,210; Dec. 17.
- Tobin, Frank, Helena, Mont. Tire-shoe expander. 1,732,668; Oct. 22.
- Tobin, Kenneth J. (See Eldind, C. E., and Tobin.)
- Tobin, Kenneth J. (See Heinen, F. C., and Tobin.)
- Tobin, Kenneth J. (See Lute, C., and Tobin.)
- Tobin, Kenneth J., assignor to Camel Company, Chicago, Ill. Car-door bracket and guide. 1,708,525; Apr. 9.
- Tobin, Kenneth J., and W. W. Darrow, assignors to Camel Company, Chicago, Ill. Side-door construction. 1,703,971; Mar. 5.
- Tobin, Kenneth J. and A. Wasberg, assignors to Camel Co., Chicago, Ill. Flush car door. 1,720,933; July 16.
- Tobin, Kenneth J., and W. W. Darrow, Chicago, Ill., assignor to Camel Company. Flush car door and supporting means therefor. 1,734,755; Nov. 5.
- Tobita, Toshio, New York, N. Y. Watch-crystal tray. 1,733,565; Oct. 29.
- Tobold, Ewald F., Cleveland, Ohio, assignor to The Dill Manufacturing Company. Valve-assembling machine. 1,697,620; Jan. 1.
- Tobrin Tool Company, The. (See Thomson, William S., assignor.)
- Tocco, Luigi, and M. Landi, assignors to Societe "Le Four Chimique Rotatif" (Societe Anonyme Francaise), Paris, France. Rotary chemical furnace. 1,708,526; Apr. 9.
- Toch, Maximilian, assignor to Standard Varnish Works, New York, N. Y. Anticorrosive material. 1,706,333; Mar. 19.
- Toch, Maximilian, assignor to Standard Varnish Works, New York, N. Y. Receptacle for paints, etc. 1,706,334; Mar. 19.
- Toch, Maximilian, assignor to Standard Varnish Works, New York, N. Y. Receptacle for paints, etc. 1,706,335; Mar. 19.
- Tockhorn, Hugo, Berlin-Tempelhof, Germany. Card index. 1,727,453; Sept. 10.
- Tod, James E., Cheadle, England. Making up or ticketing of piece goods. 1,724,862; Aug. 13.
- Todd, Albert E., Seattle, Wash. Folding ironing table. 1,723,532; Aug. 6.
- Todd, Charles W., Schenectady, N. Y. Frame for railroad vehicles and manufacturing the same. 1,731,510; Oct. 15.
- Todd, Charles W., Schenectady, N. Y. Locomotive frame and manufacturing the same. 1,731,511; Oct. 15.
- Todd Company, The. (See Bohrer, Raymond E., assignor.)
- Todd Dry Dock Engineering & Repair Corporation. (See McDonald, James, assignor.)
- Todd, Harold B., Philadelphia, Pa. Piano action. 1,729,528; Sept. 24.
- Todd, John H., assignor to the Key-Tag Checking System Company, Cleveland, Ohio. Check member for laundry-checking devices. 1,697,112; Jan. 8.
- Todd, John N., jr., assignor of twenty per cent to D. L. Whetstone and twenty per cent to W. M. Beasley, Montgomery, Ala. Circuit breaker. 1,740,911; Dec. 24.
- Todd, Norman L., Ashland, N. J. Lock differential gearing. 1,723,901; Aug. 6.
- Todd, Paul H., Kalamazoo, Mich. Soap. 1,731,551; Oct. 15.
- Todd, Percy A. S., and H. A. Yates, Ottawa, Ontario, Canada. Automobile jack and brake operating device. 1,698,612; Jan. 8.
- Todd, Russell W., Bronxville, N. Y. Steering-wheel brake. 1,700,575; Jan. 29.
- Todd, Russell W., Bronxville, N. Y. Automobile brake system. 1,725,769; Aug. 27.
- Todd, Thomas S., Gastonia, N. C. Faucet. 1,722,401; July 30.
- Todd, Victor H., Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company. Protective relay. 1,702,454; Feb. 19.
- Todd, William C., and J. W. Pomeroy, Victoria, British Columbia, Canada. Lawn sprinkler. 1,721,237; July 16.
- Todisco, Fedele, Glasgow, Scotland. Tobacco pipe. 1,707,033; Mar. 26.
- Toeller, George W., assignor to Zulu Toy Manufacturing Company, Inc., Battle Creek, Mich. Lamp. Des. 80,249; Dec. 31.
- Toggenburger, John, New Milford, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,731,689; Oct. 15.
- Toblin, Theodor, Philadelphia, Pa. Centrifugal separator. 1,723,495; Aug. 6.
- Tojek Brothers. (See Tojek, Stephen F.)
- Tojek, Philip, et al. (See Tojek, Stephen F., assignor.)
- Tojek, Stephen F., et al. (See Tojek, Stephen F., assignor.)
- Tojek, Stephen F., assignor to S. F. and P. Tojek, copartners doing business under the firm name and style of Tojek Brothers, Milwaukee, Wis. Paper-blank feeder. 1,718,318; June 25.
- Tokheim Oil Tank and Pump Company. (See Eilers, Frank B., assignor.)



- Tokheim Oil Tank and Pump Company. (See Pepper, Byron J., assignor.)
- Tokita, Kamekichi, Seattle, Wash. Vehicle lift. 1,712,485; May 14.
- Tol, Hermanus F., The Hague, Netherlands. Device for suspending irons from the movable arms of ironing machines. 1,698,852; Jan. 8.
- Tol, Hermanus F., The Hague, assignor to Naamlooze Vennootschap: Machinefabriek Reineveld, Delft, Netherlands. Ironing machine. 1,699,458; Jan. 15.
- Toledo Automatic Brush Machine Company, The. (See Jobst, Conrad, assignor.)
- Toledo Machine & Tool Company, The. (See Dorman, Neal W., assignor.)
- Toledo Machine & Tool Company, The. (See Schloz, A. H., and Hatch, assignors.)
- Toledo Pressed Steel Company, The. (See Withrow, J. E., and Close, assignors.)
- Toledo Scale Company. (See Allen, Hugh L., assignor.)
- Toledo Scale Company. (See Bergen, Harry S., assignor.)
- Toledo Scale Company. (See Booth, Theodore, assignor.)
- Toledo Scale Company. (See Buckingham, Fremont H., assignor.)
- Toledo Scale Company. (See Crossman, Henry T., assignor.)
- Toledo Scale Company. (See Hapgood, Clarence H., assignor.)
- Toledo Scale Company. (See Hem, Halvor O., assignor.)
- Toledo Scale Company. (See Hurt, Samuel N., assignor.)
- Toledo Scale Company. (See Neale, Charles C., assignor.)
- Toledo Scale Company. (See Reeves, Orwell C., assignor.)
- Toledo Scale Company. (See Reeves, O. C., and Zinke, assignors.)
- Toledo Scale Company. (See Thomas, Edward G., assignor.)
- Toledo Scale Company. (See Waltz, Foster V., assignor.)
- Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
- Toleik, John A., West Orange, N. J., assignor to American Can Company, New York, N. Y. Electric soldering means. 1,714,826; May 28.
- Toleik, John A., West Orange, N. J., assignor to American Can Company, New York, N. Y. Balanced-diaphragm principle for testing cans. 1,720,934; July 16.
- Tolen, Robert P., Arlington, and J. J. Carpenter, Kearny, N. J. Reamer attachment for diestocks. 1,704,353; Mar. 5.
- Tolhurst Machine Works, Inc. (See Bryson, Tandy A., assignor.)
- Tolhurst Machine Works, Inc. (See McKeon, John J., assignor.)
- Tolliver, William A., Chattanooga, Tenn. Changeable-speed transmission-gear attachment for cycles. 1,736,680; Nov. 19.
- Tölke, Friedrich. (See Probst, E., and Tölke.)
- Tolkien, Fritz, Pillau, Germany. Slide-valve gear for reciprocating steam engines. 1,723,449; Aug. 6.
- Tollagen, Olaf, Chicago, Ill., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Self-basting cover. 1,735,589; Nov. 12.
- Tolland, John W. (See Powers, F., and Tolland.)
- Tollerton, Clare H., executrix. (See Goodwin, G. S., and Tollerton.)
- Tollerton, William J. (See Goodwin, G. S., and Tollerton.)
- Tolley, Donald B., assignor to American Steel Products Co., Macomb, Ill. Poultry fountain or feeder. 1,729,912; Oct. 1.
- Tolman, Charles P., New York, N. Y., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Splice. 1,706,367; Mar. 19.
- Tolman, Charles P., Kew Gardens, assignor to Petroleum Conversion Corporation, New York, N. Y. Distillation. 1,733,143; Oct. 29.
- Tolman, George, Orange City, Iowa. Offset hitch. 1,731,363; Oct. 15.
- Tolman, Harry, Manchester, N. H. Book-back-printing machine. 1,697,799; Jan. 1.
- Tolman, Oliver, Vancouver, British Columbia, Canada. Fluid transmission. 1,733,286; Oct. 29.
- Tolman, Richard C., Washington, D. C., W. L. De Baufre, Lincoln, Nebr., J. W. Davis, Washington, D. C., and M. H. Roberts, Englewood, N. J., assignors to S. G. Allen, trustee. Separation by liquefaction. 1,728,947; Sept. 24.
- Tolston, Elbert M., Macon, Ga. Propeller for motor boats. 1,708,489; Apr. 9.
- Tomelick, Joseph, Flint, Mich. Screw driver. 1,728,141; Sept. 10.
- Tomes, Percy A., Brooklyn, N. Y. Gun for ejecting plastic material. 1,709,445; Apr. 16.
- Tomiselli, Angelo, Brooklyn, N. Y. Novelty bird cage. Des. 78,132; Mar. 26.
- Tomiska, Alois, Pilsen, Czechoslovakia. Breech-loading gun. 1,723,450; Aug. 6.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 77,630; Jan. 29.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 77,631; Jan. 29.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,045; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,046; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,047; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,048; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,049; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,050; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,051; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,052; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,053; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,054; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,055; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,056; Mar. 19.
- Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 78,057; Mar. 19.
- Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 79,111; July 30.
- Tomizawa, Harukichi, Tokyo-Fuka, Japan, assignor to Alfred Hague and Company, Inc., New York, N. Y. Pyrotechnic device. 1,700,243; Jan. 29.
- Tomlin, Andrew, et al. (See Crane, Adam L., assignor.)
- Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Draft gear. 1,736,947; Nov. 26.
- Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
- Tomlinson, Homer E., Malden, Mo. Machine for cleaning cotton. 1,736,142; Nov. 19.
- Tomlinson, Ira D., Erdenheim, assignor to The American Pulley Company, Philadelphia, Pa. Weighing machine. 1,724,889; Aug. 13.
- Tomlinson, William H., Bay City, Mich. Folding chair. 1,729,141; Sept. 24.
- Tomoda, Jichio, Los Angeles, Calif. Combined egg carrier and feed box. 1,715,725; June 4.
- Tomoda, Jichio, Los Angeles, Calif. Egg-dispensing device. 1,715,726; June 4.
- Tompkins, Arthur B., Crawfordsville, assignor to The Laporte Adjustable Visor Company, La Porte, Ind. Visor structure for automobiles. 1,708,161; Apr. 9.
- Tompkins, Charles A., Walla Walla, Wash. Article of furniture. 1,728,640; Sept. 17.
- Tompkins, Claude A., Lake City, Fla. Device for grinding cylinders. 1,727,844; Sept. 10.
- Tompkins, Robert O., Klamath Falls, Ore. Saw-table gauge. 1,737,131; Nov. 26.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountaineer, N. Y. Expansion shield. 1,698,570; Jan. 8.
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountaineer, N. Y. Expansion shield. 1,702,920; Feb. 19.
- Tomkinson, Joseph J., Fort Wayne, Ind. Ironing machine. 1,699,723; Jan. 22.
- Tomlin, John R., Alexandria, Va. Loose-leaf container. 1,712,530; May 14.
- Tomlins, Christine, Delafield, Wis. Chair base. 1,721,097; July 16.
- Tomlinson, Eugene, Wichita, Kans. Filler cap. 1,712,592; May 14.
- Tomlinson, George H., Montreal, Quebec, Canada. Cooking sulphite pulp. 1,697,032; Jan. 1.
- Toncray, Millard H. (See Fekete, S. I., and Toncray.)
- Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Door assembly. 1,705,741; Mar. 19.
- Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Automobile body. 1,714,252; May 21.
- Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Seat retainer. 1,717,420; June 18.
- Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Latch spindle and lock assembly. 1,720,804; July 16.
- Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Door bumper. 1,729,231; Sept. 24.
- Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Window assembly. 1,732,291; Oct. 22.
- Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Doorcheck. 1,735,024; Nov. 12.
- Todd, William, et al. (See Grosskopf, William, assignor.)
- Tone, Frank J., et al. (See Fuller, George P., assignor.)
- Toney, Albert G., Praise, assignor of one-half to G. B. Rackley, Dunleavy, Ky. Safety incline car. 1,703,799; Feb. 26.



- Toniolo, Carlo, Milan, Italy. Manufacture of ammonium nitrate in water solution and simultaneous concentration thereof. 1,700,914; Feb. 5.
- Toniolo, Carlo, Milan, Italy. Drying process for ammonium nitrate solutions. 1,721,798; July 23.
- Tonks, Harry, New York, N. Y. Buckle. Des. 78,173; Apr. 2.
- Tonn, Othar S., Durban, Natal, South Africa. Fastening device. 1,715,258; May 28.
- Tonoue, Jitsuzo, assignor to Toyodashiki Shokki Kabushiki-Kaisha, Nagoya, Japan. Automatic stopping system of power looms. 1,735,814; Nov. 12.
- Toogood, Henry H., Denver, Colo. Apparatus for constructing concrete forms. 1,702,671; Feb. 19.
- Toogood, Henry H., Denver, Colo. Apparatus for constructing concrete forms. 1,702,672; Feb. 19.
- Toogood, Henry H., Denver, Colo. Tie for constructing concrete forms. 1,729,807; Oct. 1.
- Tooke, Charles W., Washington, D. C. Bottle closure. 1,717,746; June 18.
- Tool, Arthur J., Murdock, Nebr. Sanitary poultry fountain. 1,711,366; Apr. 30.
- Toolan, John J. (See Gollnick, P. A., and Toolan.)
- Toolan, John J. (See Gollnick, P. A., Toolan, and Kranz.)
- Toole, John, Kirkland Lake, Ontario, Canada. Boot for use by miners. 1,717,127; June 11.
- Toombs, George W. (See Langlands, E., and Toombs.)
- Toomey, John F., and H. E. Phelps, New York, N. Y., assignors to American Telephone and Telegraph Company. Program transmission over wires. 1,729,649; Oct. 1.
- Toops, Charles P., Valley Junction, Iowa. Smoking pedestal. 1,710,123; Apr. 23.
- Tootal Broadhurst Lee Company Limited. (See Foulds, R. P., Marsh, and Wood, assignors.)
- Toothaker, Fred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for tempering shoe parts. 1,736,892; Nov. 26.
- Topacio y Gonzales, Jose, Manila. Combined telegram blank, envelope, and delivery sheet. 1,698,628; Jan. 8.
- Topham, Charles F., Coventry, assignor to Courtaulds Limited, London, England. Apparatus for sizing textile fibers or threads. 1,702,140; Feb. 12.
- Topham, Charles F., E. Hazeley, and E. A. Morton, Coventry, assignors to Courtaulds Limited, London, England. Manufacture of artificial threads, filaments, and the like. 1,736,681; Nov. 19.
- Topham, Charles H. (See Gadsden, Stanley W., and N. C., and Topham.)
- Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pattern-copying machine. 1,713,792; May 21.
- Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Copying lathe. 1,724,981; Aug. 20.
- Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of irregular objects. 1,725,770; Aug. 27.
- Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe and making the same. 1,732,318; Oct. 22.
- Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Reverse reproduction from models. 1,732,345; Oct. 22.
- Topham, Laurence E., Wenham, and A. R. Morrill, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,732,572; Oct. 22.
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pattern-copying machine. 1,716,672; June 11.
- Topinka, Joseph F., and F. B. Jedlicka, Cleveland, Ohio. Portable electrically-heated steaming iron. 1,710,037; Apr. 23.
- Toplitz, Samson L., New York, N. Y. Mop. 1,701,167; Feb. 5.
- Toppin, Henry, and A. G. Stevenson, assignors to The F. A. Smith Manufacturing Co. Inc., Rochester, N. Y. Receptacle. 1,710,389; Apr. 23.
- Topping, Charles T., Dayton, Ohio. Ditch-digging machine. 1,717,476; June 18.
- Topping, Frank A., assignor to J. M. Sweeney, Grand Rapids, Mich. Combined cork puller and bottle opener. Des. 79,687; Oct. 22.
- Torchia, Julius C., Hazleton, Pa. Fallen-arch supporter and foot adjuster. 1,733,678; Oct. 29.
- Torchparts Gas Appliance Company. (See Rose, James R., assignor.)
- Torchparts Gas Appliance Company. (See Slinger, August E., assignor.)
- Torelli, Pietro, New Haven, Conn. Tailor's pin. 1,712,531; May 14.
- Torfs, Walter E., Jersey City, N. J., assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y. Combined typewriting and computing machine. 1,709,963; Apr. 23.
- Torgerson, Emil, Anaconda, Mont. Speed wrench. 1,710,198; Apr. 23.
- Torka, Frank and W. V. E., Seattle, Wash. Labeling device. 1,714,827; May 28.
- Torka, William V. E. (See Torka, Frank and W. V. E.)
- Torkelson, Theodore B. (See McNamara, Patrick J., assignor.)
- Tormyn, Herman, assignor to General Motors Corporation, Detroit, Mich. Outside-flash-shearing machine. 1,717,634; June 18.
- Tornadore, Sebastiano. (See Mirabella, C., Tornadore, and Pantani.)
- Tornberg, Isidor, Plainfield, N. J. Variable-speed device. 1,732,247; Oct. 22.
- Tornberg, Isidor, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Web-roll-driving device. 1,738,083; Dec. 3.
- Tornberg, Isidor, and H. C. Jordboy, Plainfield, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Late-news device. 1,734,061; Nov. 5.
- Törnebohm, Hilding V., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Transforming continuous rotary motion into oscillatory motion. 1,706,595; Mar. 26.
- Toronto Type Foundry Company. (See Huffman, Louis, assignor.)
- Torralla, Domingo, Paris, France. Gliding boat. 1,713,570; May 21.
- Torrance, John R., Bitton, England. Mill for fine grinding. 1,713,487; May 14.
- Torrence, Ira E., San Francisco, Calif. Semaphore. 1,721,536; July 23.
- Torrence, Jo M. (See Torrence, Leo M., assignor.)
- Torrence, Leo M., assignor to J. M. Torrence, Arrington, Kans. Traffic signal. 1,735,828; Nov. 12.
- Torrence, Leo M., Topeka, assignor to J. M. Torrence, Arrington, Kans. Traffic signal. 1,736,382; Nov. 19.
- Torrence, Walter S., New York, N. Y. Locking bolt for doors. 1,707,694; Apr. 2.
- Torrese, Apollo, Philadelphia, Pa. Smoker's pipe. 1,710,440; Apr. 23.
- Torrey, Bates, Jr., and G. R. Sanford, Syracuse, assignors to Semet-Solvay Company, Solvay, N. Y. Separating liquids having different boiling points. 1,701,988; Feb. 12.
- Torrey, Belle M., et al., administrators. (See Torrey, J. R., and Harthan, assignors.)
- Torrey, J. R., & Company. (See Torrey, J. R., and Harthan.)
- Torrey, Joseph R., et al., administrators. (See Torrey, J. R., and Harthan, assignors.)
- Torrey, Joseph R., and W. P. Harthan, Worcester, Mass., assignors to J. R. and B. M. Torrey, administrators of L. H. Torrey, doing business as J. R. Torrey & Company. Stropping device for safety-razor blades. 1,701,737; Feb. 12.
- Torrey, Lewis H. (See Torrey, J. R., and Harthan.)
- Torrey, Lucien L., Los Angeles, Calif. Refrigerating apparatus. 1,736,470; Nov. 19.
- Torriani, Angelo, Pavia, Italy. Large-output express coffee machine. 1,709,290; Apr. 16.
- Toscanini, Emil M. (See Malloy, W. W., and Toscanini.)
- Tost, Charles R., Centerdale, assignor to The Hadley Company, Providence R. I. Link chain. 1,738,407; Dec. 3.
- Tóth, Josef, assignor to Petrolignum Company, Limited, Budapest, Hungary. Manufacturing figures, characters, inscriptions, frames, utensils, and other articles, fancy goods, and the like. 1,702,623; Feb. 19.
- Totten, Grant. (See Groner, Charles O., assignor.)
- Tottenham, Arthur T., Merrigum, near Kyabram, and A. S. Ridley, assignors to Australasian Machines Proprietary Limited, Melbourne, Victoria, Australia. Fruit-pitting machine. 1,726,685; Sept. 3.
- Touchette, Louis, Minneapolis, Minn. Valve-spring compressor. 1,718,841; June 25.
- Touchstone, Grady R., Los Angeles, Calif. Dental cleaning brush. 1,720,017; July 9.
- Toulmin, Harry A., Jr., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. 1,736,024; Nov. 19.
- Toulon, Pierre M. G. (See Dunoyer, L. D. J. A., and Toulon.)
- Toulon, Pierre M. G., Puteaux, assignor to Societe des Etablissements Edouard Belin, Paris, France. Arc rectifier. 1,733,679; Oct. 29.
- Tourne, Charles, Paris, France. Apparatus for renewing filaments in incandescent lamps. 1,728,813; Sept. 17.
- Tournier, Edward P., Chicago, and J. F. Wulff, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Tool. 1,720,773; July 16.
- Tournier, Marcel, Paris, France. Musical instrument. 1,709,548; Apr. 16.
- Tournoy, Fritz. (See Huss, C., and Tournoy.)
- Tourtelotte, George B., Springfield, Mass. Method of and apparatus for testing fire extinguishers. 1,714,197; May 21.
- Tovey, George H., Schenectady, N. Y., assignor to General Electric Company. Circuit connector. 1,734,925; Nov. 5.
- Towell, Oscar J., Chicago, Ill., assignor to Robert Gair Company, New York, N. Y. Collapsing display stand. 1,718,319; June 25.
- Tower, Francis E. (See Vaughan, Berkeley S., assignor.)
- Tower, Herschel E., assignor to The Baldwin Company, Cincinnati, Ohio. Control switch. 1,705,791; Mar. 19.
- Tower, Herschel E., assignor to The Baldwin Company, Cincinnati, Ohio. Pneumatic action for grand pianos. 1,706,757; Mar. 26.
- Tower Manufacturing Corporation. (See Riley, Herbert E., assignor.)



- Towers, John H., Balsam Lake, Wis. Dead-center device. 1,722,320; July 30.
- Towers & Sullivan Manufacturing Co. (See McKay, Augusta P., assignor.)
- Towill, Edward, Roslyn, Pa. Glazing clip. 1,697,699; Jan. 1.
- Towle, Frank I., St. Paul, Minn. Container spacer. 1,735,885; Nov. 19.
- Towle Manufacturing Company. (See Nock, Harold E., assignor.)
- Towle Manufacturing Company. (See Parker, George F., assignor.)
- Towle Manufacturing Company. (See Parker, Mary G., assignor.)
- Towler, Frank H. and J. M. Ilkley, England. Baling or bundling press. 1,707,314; Apr. 2.
- Towler, Henry L., Minneapolis, Minn. Washing apparatus. 1,709,238; Apr. 16.
- Towler, John M. (See Towler, Frank H. and J. M.)
- Towne, Willis H., Evanston, Ill., assignor to Gifford-Wood Company, Hudson, N. Y. Hopper or pit. 1,730,704; July 16.
- Towner, Heber F., deceased, Santa Ana, Calif.; P. G. Beisel, executor, assignor to B. V. Curry, trustee. Power-lift implement. 1,704,929; Mar. 12.
- Towns, Herbert L. (See Viale, S. M., and Towns.)
- Townsend, Albert J., Lima, Ohio. Locomotive-spring-rigging-equalizing device. 1,704,266; Mar. 5.
- Townsend, Arthur J., Canton, assignor, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Channel rolling mill. 1,736,331; Nov. 19.
- Townsend, Elmer M., New York, N. Y. Cigar and cigarette lighter. Des. 77,990; Mar. 12.
- Townsend Envelope Machine Co. (See Townsend, Joseph M., assignor.)
- Townsend, Frank L., Haddonfield, N. J., assignor to American Expansion Wheel Corporation, Philadelphia, Pa. Expandible wheel. 1,739,271; Dec. 10.
- Townsend, George F., assignor of one-half to E. W. Jenkins, Philadelphia, Pa. Elastic fabric. 1,716,843; June 11.
- Townsend, George H., Greenwich, Conn., assignor to The Motometer Company, Inc., Long Island City, N. Y. Combined traffic-warning device and support therefor. Des. 79,538; Oct. 1.
- Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Convertible switch. 1,728,019; Sept. 10.
- Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Electric switch and operating means therefor. 1,738,406; Dec. 3.
- Townsend, Harry E., Brooklyn, N. Y. Sealing machine. 1,719,404; July 2.
- Townsend, Harry E., Brooklyn, N. Y. Package and producing the same. 1,719,405; July 2.
- Townsend, Harry E., Brooklyn, N. Y. Labeling machine. 1,719,406; July 2.
- Townsend, John R., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Boiler-gauge illuminator. 1,726,168; Aug. 27.
- Townsend, John S. (See Holmes, L. D., and Townsend.)
- Townsend, Joseph M., Worcester, assignor to Townsend Envelope Machine Co., Boston, Mass. Envelope machine. 1,720,651; July 9.
- Townsend, Joseph M., Worcester, assignor of one-half to H. T. Folsom, South Hamilton, Mass. Cutting machine. 1,736,143; Nov. 19.
- Townsend Manufacturing Company. (See Jancke, Benno F., assignor.)
- Townsend Manufacturing Corporation. (See Pickering, Albert V., assignor.)
- Townsend, Marion S., Columbus, Ga. Ventilator for vehicles. 1,712,180; May 7.
- Townsend, Percival J., Los Angeles, Calif. Radiocabinet. Des. 77,515; Jan. 15.
- Townsend, Phinn W., Del Rio, Tex. Advertising novelty. 1,715,048; May 28.
- Townsend, Thomas, Pittsburgh, Pa., assignor of one-half to H. F. Anderson, Marion, Ind., and one-half to J. Boyce, Holland, Mich. Rotary cutter. 1,698,832; Jan. 15.
- Townsend, Thomas, Pittsburgh, Pa., assignor of one-half to H. F. Anderson, Marion, Ind., and one-half to J. Boyce, Holland, Mich. Machine for cutting designs, letters, etc. 1,698,833; Jan. 15.
- Townsend, William, Toronto, Ontario, Canada. Signal apparatus for motor vehicles. 1,736,060; Nov. 19.
- Townsend, William, Chicago, Ill., assignor to The Connorsville Blower Co., Connorsville, Ind. Wide-range meter. 1,700,692; Jan. 29.
- Townsend, William S., Rochester, Pa., and C. Spaeth, Cleveland, Ohio, assignors, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Grease pump. 1,715,522; June 4.
- Towsty, John, Toronto, Ontario, assignor of one-half to W. Cependa, Toronto, Canada. Lock. 1,718,090; June 18.
- Toy, George D. (See Perry, W. A., and Toy.)
- Toyoda, Kiichiro, Shirakabecho, Nagoya, Japan. Tail-thread-cutting mechanism in automatic looms. 1,722,184; July 23.
- Torodashiki Shokki Kabushiki-Kaisha. (See Tonoue, Jitsuzo, assignor.)
- Tozer, Charles A., and P. Hunter, Muskogee, Okla. Fuse holder. 1,719,859; July 9.
- Trabue, Charles C., et al., trustees. (See Brown, Charles S., assignor.)
- Trace, Russell A., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Chuck. 1,721,678; July 23.
- Tracy, David D., Jackson, Mich. Waterproof conduit. 1,731,991; Oct. 15.
- Tracy Footwear Process, Inc. (See Tracy, Wilfred T., assignor.)
- Tracy, Howard E., assignor to O. S. Walker Co., Inc., Worcester, Mass. Multiple magnetic chuck. 1,704,448; Mar. 5.
- Tracy, Joseph, Rutherford, N. J. Gaseous-fluid dynamometer. 1,704,412; Mar. 5.
- Tracy, Martin F. (See Weidlich, L., Tracy, and Flauder.)
- Tracy, Michael J., St. Louis, Mo. Latch. 1,698,745; Jan. 15.
- Tracy, Michael J., St. Louis, Mo. Latch. 1,699,821; Jan. 22.
- Tracy, Michael J., St. Louis, Mo. Door mounting. 1,731,801; Oct. 15.
- Tracy, Michael J., and J. H. Kintzele, St. Louis, Mo. Lock case. Des. 77,632; Jan. 29.
- Tracy, Michael J., and J. H. Kintzele, St. Louis, Mo. Case. 1,734,311; Nov. 5.
- Tracy, Peter J., Hartford, Conn. Door-opening mechanism. 1,716,156; June 4.
- Tracy, Robert B., Chicago, Ill. Liquid-dispensing device. 1,703,327; Feb. 26.
- Tracy, Robert W. (See Mueller, G. A., and Tracy.)
- Tracy, Robert W., assignor to The De Vilbiss Company, Toledo, Ohio. Spray head. 1,739,428; Dec. 10.
- Tracy, Vern A. (See Hampton, W. L., and Tracy.)
- Tracy, Vernon J., Los Angeles, Calif. Mouthpiece for telephones. 1,719,573; July 2.
- Tracy, Wilfred T., Lynn, assignor to Tracy Footwear Process, Inc., Boston, Mass. Making shoes or slippers. 1,723,533; Aug. 6.
- Tracy, Wilfred T., Lynn, assignor to Tracy Footwear Process Inc., Boston, Mass. Footwear and manufacturing the same. 1,733,105; Oct. 22.
- Traeger, Mathilda, Union City, N. J. Comb. 1,705,595; Mar. 19.
- Trageser, Albert H., and L. Hassinger, New York, N. Y. Welding copper boiler ends. 1,733,922; Oct. 29.
- Trageser, Charles E., assignor to Stadium Underwear Company, Inc., Baltimore, Md. Pajama pants. 1,740,554; Dec. 24.
- Train Control Corporation of America. (See Clifford, Patrick J., assignor.)
- Train, John, Pipestone, Minn. Combined bed and tent. 1,731,913; Oct. 15.
- Trainer, James E. (See Kerr, H. J., and Trainer.)
- Trainer, Theodore R., Wilson, assignor of one-half to J. A. Kelly, Pittsburgh, Pa. Treating benzol to eliminate corrosive properties. 1,711,367; Apr. 30.
- Trainor, Felix J., Newcastle, Ind., assignor to Trainor National Spring Company. Auxiliary chassis spring. 1,702,751; Feb. 19.
- Trainor National Spring Company. (See Trainor, Felix J., assignor.)
- Trainor, Patrick, Bell Harbor, N. Y. Steam boiler. 1,702,369; Feb. 19.
- Traitel, Benjamin D., New York, N. Y. Dividing strip for cement flooring. 1,723,825; Aug. 6.
- Traitel Marble Company, The. (See Calkins, Seward H., assignor.)
- Trammell, Earl M., assignor to El Paso Sash & Door Company, El Paso, Tex. Built-in wall seat. 1,698,036; Jan. 8.
- Trammell, Earl M., assignor to El Paso Sash & Door Co., El Paso, Tex. Telephone cabinet. 1,702,178; Feb. 12.
- Trammell, Earl M., assignor to El Paso Sash & Door Co., El Paso, Tex. Door for kitchen cabinets. 1,716,394; June 11.
- Trammell, Earl M., assignor to El Paso Sash & Door Company, El Paso, Tex. Ironing board. 1,734,409; Nov. 5.
- Trammell, William R., Chimney Rock, N. C. Internal-combustion engine. 1,716,198; June 4.
- Trane Company, The. (See Ziegler, Joram A., assignor.)
- Trane, Reuben N., La Crosse, Wis. Electric heater. 1,728,377; Sept. 17.
- Tranin, Samuel, Kansas City, Mo. Yolk-separating device. 1,727,493; Sept. 10.
- Transkrit, A. G. (See Hodler, Ernst, assignor.)
- Trans-Lux Daylight Picture Screen Corporation. (See Birdsall, Wilfred T., assignor.)
- Trans-Lux Daylight Picture Screen Corporation. (See Payne, Arthur C., assignor.)
- Trans-Lux Daylight Picture Screen Corporation. (See Pritchard, W. S., and Birdsall, assignors.)
- Trans-Lux Daylight Picture Screen Corporation. (See Remcy, J. T., and Meloy, assignors.)
- Transom, Frederick, Washington, D. C. Headlight projector. 1,741,888; Dec. 31.
- Transtrom, Robert L. (See Edwards, C. H., and Transtrom.)
- Trant, James J., and M. Jensen, assignor to Pullman Car & Manufacturing Corporation, Chicago, Ill. Car wheel. 1,728,641; Sept. 17.
- Traphagen, Harry R., Rockford, Ill., assignor, by mesne assignments, to J. I. Case Threshing Machine Company, Racine, Wis. Harrow. 1,710,124; Apr. 23.



- Trapp, Charles L., Omaha, Nebr., assignor to Globe Machinery & Supply Company, Des Moines, Iowa. Lifting device. 1,720,980; July 16.
- Trapp, Edwin W., San Francisco, Calif., assignor, by mesne assignments, to Mutual Stores, Inc. Apparatus for vending merchandise. Re17,178; Jan. 1.
- Traquair, John, Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Method of and apparatus for manufacturing paper. 1,707,333; Apr. 2.
- Trasenster, Gustave, assignor to The Société Anonyme d'Ougrée Marihay, Ougrée, near Liege, Belgium. Brouler. 1,712,857; May 14.
- Trask, Allan P. (See Bursley, E. S., and Trask.)
- Trask, F. E., et al. (See Anderson, Emil S., assignor.)
- Trask Industries, Incorporated. (See Bursley, E. S., and Trask, assignors.)
- Tratsch, Walter A. (See Bechtol, A. H., and Tratsch.)
- Traub, William F., Chicago, Ill. Gas range. 1,723,667; Aug. 6.
- Traube, Abraham, assignor to Fabric Dry Cleaning Machinery Co. Inc., Brooklyn, N. Y. Dry-cleaning apparatus. 1,740,716; Dec. 24.
- Traud, William A., Newark, N. J. Leather-shaving machine. 1,718,091; June 18.
- Traut, William F., Buffalo, N. Y., assignor to Taber Pump Company, Buffalo, N. Y. Portable power-driven pump. 1,712,012; May 7.
- Trautner, Wallace A., Toledo, Ohio. Wiring and embedding device for comb foundation. 1,726,999; Sept. 3.
- Trauger, Guy A., Alden, Iowa. Picker and wagon hitch. 1,731,642; Oct. 15.
- Trauger, John W., Binghamton, and C. J. Smethers, Johnson City, N. Y., assignors to Fair Play Caramels, Inc. Packing caramels or confections. 1,719,635; July 2.
- Traugher, Beulah, Houston, Tex. Container. 1,710,034; Apr. 30.
- Traut, Adolf, Ludwigshafen-on-the-Rhine, Germany. Gas stove. 1,698,775; Jan. 15.
- Traut, Clifford, assignor to The Higgin Manufacturing Company, Newport, Ky. Access-panel structure. 1,707,240; Apr. 2.
- Traut, George H., Sharon, Mass. Direction indicator for motor vehicles. 1,701,738; Feb. 12.
- Trauth, Walter A. (See Keenan, Thomas, assignor.)
- Trautman, Ernest, Lakewood, assignor to The Republic-Box Company, Cleveland, Ohio. Reinforced milk-bottle container. 1,728,517; Sept. 17.
- Trautman, Oscar C., Lakewood, Ohio. Apparatus for heating wire. 1,700,002; Jan. 22.
- Trautner, Nicholas W., St. Paul, Minn. Spare-tire lock. 1,741,593; Dec. 31.
- Trautner, Willy. (See Berliner, R., Stein, and Trautner.)
- Trautner, Willy. (See Schmidt, R. E., and Trautner.)
- Trautner, Willy. (See Stein, B., Trautner, and Berliner.)
- Trautner, Willy, R. Berliner, and B. Stein, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. 1-phenyl-benzanthrone compounds. 1,713,571; May 21.
- Trautner, Willy, B. Stein, and R. Berliner, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Making 1-phenyl-benzanthrone compounds. 1,736,061; Nov. 19.
- Travell, Warren. (See Fowelson, W. V. N., and Travell.)
- Traver, F. C., Paper Company. (See Beck, William E., assignor.)
- Traver, F. C., Paper Company. (See Tighe, Hugh B., assignor.)
- Traver, Harry G., Beaver Falls, Pa. Amusement ride. 1,713,793; May 21.
- Traver, Harry G., Beaver Falls, Pa. Amusement ride. 1,732,248; Oct. 22.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Electric relay. 1,713,500; June 25.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Circuit protection. 1,719,912; July 9.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,728,020; Sept. 10.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,732,292; Oct. 22.
- Traver, Philip C., Lynbrook, assignor of one-third to G. E. Wiedner and one-third to L. J. Ekenberg, Far Rockaway, N. Y. Airship. 1,705,346; Mar. 12.
- Travers, Charles J., assignor to Gilson Manufacturing Company, Port Washington, Wis. Chair structure. 1,699,551; Jan. 22.
- Travers, Charles J., assignor to Gilson Manufacturing Company, Port Washington, Wis. Base. 1,709,446; Apr. 16.
- Travers, Gordon, Los Angeles, Calif. Boxer's hand protector. 1,706,503; Mar. 26.
- Travers, Henry A., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer-tap-changing device. Re17,230; Mar. 5.
- Travers, Henry A., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Periodic reclosing circuit interrupter. 1,706,713; Mar. 26.
- Travers, John T., Columbus, Ohio. Treating cannery waste. 1,711,105; Apr. 30.
- Travers, John T., assignor to The Travers-Lewis Process Corporation, Columbus, Ohio. Process of and material for treating sewage and industrial waste. 1,699,257; Jan. 15.
- Travers, John T., assignor to The Travers-Lewis Process Corporation, Columbus, Ohio. Treating sulphite-pulp waste. 1,699,258; Jan. 15.
- Travers, John T., assignor to The Travers-Lewis Process Corporation, Columbus, Ohio. Treating polluted waste water. 1,703,373; Feb. 26.
- Travers, John T., assignor to The Travers-Lewis Process Corporation, Columbus, Ohio. Process and apparatus for treating acidified mine water. 1,714,823; May 28.
- Travers, John T., Columbus, Ohio, assignor to The Travers-Lewis Process Corporation. Sewage-treatment plant. 1,715,488; June 4.
- Travers, John T., assignor to The Travers Process Corporation, Columbus, Ohio. Purifying polluted liquids and industrial waste. 1,715,877; June 4.
- Travers, John T., assignor to The Travers-Lewis Process Corporation, Columbus, Ohio. Removing odors from gases and air. 1,738,543; Dec. 10.
- Travers-Lewis Process Corporation, The. (See Travers, John T., assignor.)
- Travers Process Corporation, The. (See Travers, John T., assignor.)
- Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Spring mattress and like structure. 1,699,822; Jan. 22.
- Travis, Don C., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Extensible bedstead. 1,721,889; July 23.
- Travis, Don C., and W. A. Vollmer, Kenosha, Wis., assignors to Simmons Company, New York, N. Y. Bedding holder for upending bedsteads. 1,698,077; Jan. 8.
- Travis, George B., Santa Paula, Calif. Adjustable chair seat. 1,735,304; Nov. 12.
- Travis, Ira D., Salt Lake City, Utah. Casting machine. 1,700,341; Jan. 29.
- Travis, Ira D., Salt Lake City, Utah. Casting machine. 1,732,448; Oct. 22.
- Travis, Ira D., Salt Lake City, Utah. Casting machine. 1,732,449; Oct. 22.
- Travis, John M., St. Louis, Mo. Faucet. 1,726,086; Aug. 27.
- Travis, Pierce M. (See Halvorsen, A. L., and Travis.)
- Travis, Pierce M., Ridgewood, assignor to Travis Process Corporation, Jersey City, N. J. Removing amorphous wax from petroleum oils. 1,732,143; Oct. 15.
- Travis, Pierce M., Ridgewood, assignor to Travis Process Corporation, Jersey City, N. J. Removing amorphous wax from petroleum oils. 1,732,144; Oct. 15.
- Travis Process Corporation. (See Travis, Pierce M., assignor.)
- Travis, Ray C., Ferndale, Mich. Automobile seat. 1,739,741; Dec. 17.
- Travor, Carl A., assignor to C. E. Barrett & Co., Chicago, Ill. Swiveling pen support. 1,728,642; Sept. 17.
- Tray Service Company. (See Curtis, Paul W., assignor.)
- Tray Service Company, et al. (See McGinley, James M., assignor.)
- Traylor Engineering & Mfg. Company. (See Bernhard, Richard, assignor.)
- Traylor Engineering & Manufacturing Company. (See Haas, J. S., and Bernhard, assignors.)
- Trobojevic, Nikola, Highland Park, Mich. Fluid-operated valve. 1,696,984; Jan. 1.
- Trobojevic, Nikola, Highland Park, Mich. Hydraulic brake. 1,696,985; Jan. 1.
- Treadway, L. C., et al. (See Sadler, Luther, assignor.)
- Treadwell, M. H., Company. (See Astrom, Carl F., assignor.)
- Trear, Peter D., Leavenworth, Kans. Machine for cutting meat, etc. 1,741,042; Dec. 24.
- Treat, Sidney W. (See Pagel, E. C., and Treat.)
- Trebert, Henry L. F., Canandaigua, N. Y. Hydraulic brake. 1,712,316; May 7.
- Trechcinski, Roman, Warsaw, Poland, assignor to Telefon-aktiebolaget L. M. Ericsson, Stockholm, Sweden. Impulse-repeating device for automatic and semi-automatic telephone-exchange systems. 1,720,107; July 9.
- Tredway, Alfred P., Shoals, Ind. Automatic steering-column lock. 1,700,864; Feb. 5.
- Tredway, Alfred P., Shoals, Ind. Gear shift for motor vehicles. 1,715,178; May 28.
- Treece, Ezra, Chicago, Ill. Transmission. 1,702,065; Feb. 12.
- Treer, Ross B., Toledo, Ohio. Toggle drawing press. 1,729,658; Oct. 1.
- Trees, Leonard E., Estherville, Iowa. Veterinary surgical table. 1,717,531; June 18.
- Trees, Leonard E., Estherville, Iowa, assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Veterinary surgical table. 1,717,532; June 18.
- Treffinger, Ethel T., Eaton, Ohio. Attachment for dish-washing machines. 1,718,613; June 25.
- Trego, William J., Hutchinson, Kans. Railway-switch-point protector. 1,737,984; Dec. 3.
- Tregoning, William C., Wauwatosa, assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Pull-chain lamp socket. 1,735,305; Nov. 12.
- Treiber, Theodore R., assignor to W. H. McWhorter, Chicago, Ill. Bowling alley. 1,697,800; Jan. 1.
- Treiber, Theodore R., assignor to W. H. McWhorter, Chicago, Ill. Game table. 1,715,631; June 4.
- Treiber, Theodore R., Chicago, Ill. Double-hung-window construction. 1,727,454; Sept. 10.
- Trejo M., Rafael, Chicago, Ill. Pressing and folding mechanism. 1,734,654; Nov. 5.



- Treleven, Clifford Le R., Jackson Heights, N. Y., assignor to Ray-Signs Corporation. Reflecting optical unit. 1,735,815; Nov. 12.
- Tremain, Addie and H. D., Dallas, Tex. Paint and varnish remover. 1,714,530; May 28.
- Tremain, Harry D. (See Tremain, Addie and H. D.)
- Tremblay, Albert F., Three Rivers, Tex. Glass-charging device. 1,720,496; July 9.
- Trembour, Max R., Canton, Ohio. Hot top for molds. 1,696,986; Jan. 1.
- Tremont Products Corporation. (See Smith, Raymond D., assignor.)
- Tremper, Jake L., Streator, Ill., assignor to Streator Drain Tile Co. Building tile. 1,720,306; July 9.
- Trencham, Henry, Ruislip, H. C. Heath, Wembley, and C. W. Newton, Harlesden, London, England, assignors to General Electric Company. Electric switch. 1,718,501; June 25.
- Trenchard, Henry, jr. (See Swab, Jay G., assignor.)
- Trenckmann, Bruno. (See Trenckmann, Erich and B.)
- Trenckmann, Erich and B., Berlin-Tempelhof, assignors, by mesne assignments, to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Composition for impregnating balloon fabrics. 1,730,544; Oct. 8.
- Trenkamp, Henry, Cleveland, Ohio. Door-control appliance. 1,735,661; Nov. 12.
- Trenor, Albert D., assignor to J. H. Hammond, jr., Gloucester, Mass. Control of broadcasting by keys. 1,712,181; May 7.
- Trenor, Albert D., assignor to J. H. Hammond, jr., Gloucester, Mass. Separable casing for musical instruments. 1,722,643; July 30.
- Trenor, Albert D., assignor to J. H. Hammond, jr., Gloucester, Mass. Synchronization of motion pictures and music. 1,722,644; July 30.
- Trent Process Corporation. (See Trent, Walter E., assignor.)
- Trent, Walter E., Washington, D. C., assignor to Trent Process Corporation, New York, N. Y. Distilling solid carbonaceous materials. 1,706,420; Mar. 26.
- Trent, Walter E., Washington, D. C., assignor to Trent Process Corporation, New York, N. Y. Apparatus for distilling materials. 1,706,421; Mar. 26.
- Trent, Walter E., Washington, D. C., assignor to Trent Process Corporation, New York, N. Y. Combined gas heating and cooking stove. 1,706,422; Mar. 26.
- Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Gas manufacture. 1,716,673; June 11.
- Trent, Walter E., assignor to Trent Process Corporation, New York, N. Y. Method and apparatus for burning fuels. 1,726,870; Sept. 3.
- Trentacoste, Anthony J., New York, N. Y., assignor to Innovation Trunk Company. Wardrobe trunk. 1,698,859; Jan. 15.
- Trento, Leonardo, Ardsley-on-Putnam, N. Y. Power transmission. 1,721,359; July 16.
- Trenton Auto Radiator Works, Inc. (See Kramer, Nathan, assignor.)
- Trenton Potteries Company, The. (See Hinsdale, Winfield E., assignor.)
- Trenzen, Carl, Honnef-on-the-Rhine, Germany, assignor of two-thirds to C. Schwartz and G. G. Hunter, New York, N. Y. Lepidolite enamel and producing same. 1,734,698; Nov. 5.
- Trepeta, Michal, New Rochelle, N. Y. Life-saving attachment for submarines. 1,700,187; Jan. 29.
- Trepte, Alfred H. C., Los Angeles, Calif. Miter hack saw and vise. 1,708,641; Apr. 9.
- Trocire, Howard O., Detroit, Mich. Steam trap. 1,701,936; Feb. 12.
- Treschow, Michael, Hellerup, Denmark. Combination with smoke-tube boiler. 1,698,516; Jan. 8.
- Trescott, John B., St. Louis County, assignor to Thanders Electric Company, St. Louis, Mo. High-tension-switch frame. 1,725,228; Aug. 20.
- Trosise, Raleigh E. (See Scott, W. M., and Tresise.)
- Tresise, Raleigh E., Cleveland Heights, assignor of one-half to W. M. Scott, Lakewood, Ohio. Radiocabinet. Des. 79,492; Sept. 24.
- Tressel, Joseph J., Cincinnati, Ohio, assignor to Dri-Kold Manufacturing Company, Birmingham, Ala. Combination refrigerating dish. 1,720,935; July 16.
- Treuner, Feodor, Duisburg, Germany. Horizontal bar. 1,728,313; Sept. 17.
- Treusch, August, Offenbach-on-the-Main, and R. Württemberg, Darmstadt, assignors to the firm J. Mayer & Sohn, Offenbach-on-the-Main, Germany. Recovering chromium from chromiferous waste materials. 1,700,657; Jan. 29.
- Trevellyan, Vernon B., and Wallace W. Smith, Chicago, Ill., assignors to Structural Service Co., Wilmington, Del. Column-fabricating machine. 1,702,370; Feb. 19.
- Treverton, Stephen, Canton, assignor to Central Alloy Steel Corporation, Massillon, Ohio. Open-hearth furnace. 1,741,666; Dec. 31.
- Trevett, Earl H., assignor to Draper Corporation, Hopedale, Mass. Creel-spool-support lock. 1,712,059; May 7.
- Trevino, Manuel F., Crystal City, Tex. Miniature aeroplane. 1,735,662; Nov. 12.
- Trevisan, Dominick A., East Lansdowne, Pa. Expansion strip. 1,704,812; Mar. 12.
- Trevisan, Rinaldo. (See Costaganna, Celeste, assignor.)
- Trevor, Charles, incompetent, by J. F. Ryan guardian, Jersey City, N. J. Aeroplane. 1,719,031; July 2.
- Trew, Arthur S., Detroit, Mich., assignor to Burroughs Adding Machine Company. Adding machine and the like. 1,723,668; Aug. 6.
- Trewendt, Gert. (See Ullmann, F., and Trewendt.)
- Treworgy, Harold E., Brunswick, Me. Suspension device for papers. 1,731,279; Oct. 15.
- Triangle Advertising System, Inc. (See Richards, Carl, assignor.)
- Triangle Automobile Spring Company. (See Bernhardt, Joseph F., assignor.)
- Triangle Kapok Machine Corporation. (See Swanson, Hugo R., assignor.)
- Tribbett, George, Dayton, Ohio. Carburetor spray nozzle. 1,730,099; Oct. 1.
- Tribble, John F., Portland, Oreg. Combined rear bumper and luggage carrier. 1,702,553; Feb. 19.
- Tribe, Ernest. (See Hele-Shaw, H. S., and Tribe.)
- Tribune Company. (See Mars, Ernst P., assignor.)
- Tribune Company, The. (See Wolf, Otto R., assignor.)
- Trick, Charles W., Dayton, Ohio. Waste receptacle. 1,704,906; Mar. 12.
- Trickey, John P. (See Nash, C. A., Trickey, and Miner.)
- Trickey, John P., Evanston, assignor to The Quaker Oats Company, Chicago, Ill. Lacquer solvent. 1,703,697; Feb. 26.
- Trickey, John P., Evanston, and C. S. Miner, assignors to The Quaker Oats Company, Chicago, Ill. Disinfectant and antiseptic embodying furane derivatives and making and utilizing same. 1,738,740; Dec. 10.
- Tri-Clover Machine Co. (See Thomsen, Lars C., assignor.)
- Trico Fuse Mfg. Co. (See Jung, Oscar H., assignor.)
- Trico Products Corporation. (See Folberth, F. G. and W. M., assignors.)
- Trico Products Corporation. (See Folberth, Frederick G., and W. M., assignors.)
- Trico Products Corporation. (See Horton, E. C., and Hueber, assignors.)
- Trico Products Corporation. (See Hueber, Henry, assignor.)
- Trico Products Corporation. (See Oishei, Bernard F., assignor.)
- Trico Products Corporation. (See Oishei, J. R., and Hueber, assignors.)
- Trico Products Corporation. (See Oishei, John R., assignor.)
- Trico Products Corporation. (See Schilling, Donald C., assignor.)
- Tridex Corporation. (See Wier, Stuart A., assignor.)
- Trier, James M., New York, N. Y. Offset-web cleaner for printing presses. 1,700,865; Feb. 5.
- Trier, Paul W., Chicago, Ill. Food heater. Des. 77,795; Feb. 19.
- Trier, Vernon A., London, England. Electric switch. 1,728,579; Sept. 17.
- Trier, Vernon A., London, England. Ventilator. 1,728,777; Sept. 17.
- Tri-Ergon A. G. (See Massolle, Joseph, assignor.)
- Triller, Benjamin J., Dubuque, Iowa. Door and door-frame construction. 1,732,735; Oct. 22.
- Tri-Lok Company, The. (See Berson, Nathan, assignor.)
- Tri-Lok Company. (See Goertz, Albert, assignor.)
- Tri-Lok Company. (See Nagin, Henry, assignor.)
- Trimble, Curtis R., Los Angeles, Calif. Automatic door operating and locking device. 1,738,741; Dec. 10.
- Trimble, James H. (See Harbord, Rolla C., assignor.)
- Trimble, James H., et al. (See Harbord, Rolla C., assignor.)
- Trinder, Wallace S., Shrewsbury, assignor to Peerless Machinery Company, Boston, Mass. Edge gauge. 1,721,238; July 16.
- Trines, Clemens H., Amsterdam, Netherlands. Camera. 1,726,087; Aug. 27.
- Trinity Wheel Corporation. (See Baker, Frederick W., assignor.)
- Trinks, William W., New York, assignor to C. B. Orcutt, Jackson Heights, N. Y. Washing-machine-locking mechanism. 1,738,506; Dec. 3.
- Trinks, Willibald. (See Kernban, R. B., Lochhead, and Trinks.)
- Trinks, Willibald, Pittsburgh, Pa. Operating an open-hearth furnace. 1,741,002; Dec. 24.
- Trinler, Newland D. (See Trinler, Walter A. and N. D.)
- Trinler, Walter A. and N. D., Camagucy, Cuba. Endless track band. 1,739,533; Dec. 17.
- Triplett, Carl E., Ceres, Calif. Grape-stemming device. 1,719,913; July 9.
- Triplett, James B., Long Beach, Calif. Drum construction. 1,736,144; Nov. 19.
- Triplett, Stanley F., assignor to Pacific Grape Products Company, Ceres, Calif. Grape-stemming device. 1,703,123; Feb. 26.
- Triplex Safety Glass Company of North America. (See Thieler, Henry J., assignor.)
- Tripp, Augustus B., Cliftondale, Mass., assignor to General Electric Company. Piezo-electric device. 1,734,926; Nov. 5.
- Trippel-Fürst, Alexander-Berlin-Reinickendorf, assignor to S. Müller, Berlin, Germany. Optical advertising device. 1,721,014; July 16.
- Tritschler, Frank. (See Driest, Charles, jr., assignor.)
- Tritz, John H., Clinton, Iowa, assignor to Cotta Transmission Corporation, Rockford, Ill. Spray-mist washing apparatus. 1,734,927; Nov. 5.



- Triulzi, Joseph, assignor to Braly Manufacturing Company, Los Angeles, Calif. Universal joint. 1,711,187; Apr. 30.
- Triulzi, Joseph, assignor to Braly Manufacturing Company, Los Angeles, Calif. Drying machine. 1,711,188; Apr. 30.
- Triumph Hosiery Mills. (See Mankin, Arthur J., assignor.)
- Triumph Manufacturing Company, The. (See Glosch, Frederick P., assignor.)
- Triumph Steel Co. (See Crist, Donald M., assignor.)
- Triumph-Werke Nurnberg A.-G. (See Kupfer, Carl, assignor.)
- Trnovec, Louis, Willow Springs, Ill. Toothpick dispenser. 1,741,889; Dec. 31.
- Troddyn, Patrick J. (See Budina, C., and Troddyn.)
- Troeger, Herman W., Detroit, Mich. Piston and making same. 1,727,119; Sept. 3.
- Troegner, Arthur M., Takoma Park, Md., assignor to Wired Radio, Inc., New York, N. Y. Frequency-control system. 1,727,575; Sept. 10.
- Troegner, Arthur M., East Orange, N. J., assignor to Wired Radio, Inc., New York, N. Y. Frequency changing switch. 1,732,547; Oct. 22.
- Troegner, Arthur M., East Orange, N. J., and C. F. Rudolph, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y. Water-cooled tube socket. 1,735,816; Nov. 12.
- Troha, Joseph W., Cleveland, Ohio. Valve-seating tool. 1,731,032; Oct. 8.
- Troidl, Nellie Y., Niagara Falls, N. Y. Educational appliance. 1,696,987; Jan. 1.
- Troidl, Nellie Y., Niagara Falls, N. Y. Educational device. 1,696,988; Jan. 1.
- Troiell, Arthur E., Berkeley, assignor to Montague Range and Furnace Co., San Francisco, Calif. Scrap block. 1,720,386; July 9.
- Trojan Powder Company. (See Rupp, Guy A., assignor.)
- Trojan Powder Company. (See Snelling, Walter O., assignor.)
- Trojan Powder Company. (See Snelling, W. O., and Rupp, assignors.)
- Trojan Powder Company. (See Snelling, W. O., and Koch, assignors.)
- Trojan Powder Company. (See Wyler, Joseph A., assignor.)
- Trojan, Robert, Jacksonville, Fla. Refrigerator and display case. 1,719,526; July 2.
- Troland, Leonard T., Cambridge, assignor by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Suction apparatus for imbibition printing. 1,707,695; Apr. 2.
- Troland, Leonard T., Malden, assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Registration means for film-printing machines. 1,716,989; June 11.
- Trolle, Sofus, Racine, Wis., assignor to Trolle Specialty Company. Supporting bracket for visor glasses. 1,737,814; Dec. 3.
- Trolle Specialty Company. (See Trolle, Sofus, assignor.)
- Trolley Shoe-Wheel Company. (See Henry, A. L., and Moore, assignors.)
- Trollinger, George M., Shelburn, Oreg. Brooder. 1,706,266; Mar. 19.
- Trombatura, Francescopaolo, New York, N. Y. Lighting fixture. Des. 79,172; Aug. 6.
- Tronc, Le Roy, assignor to M. M. Slaughter, Chicago, Ill. Curling iron. 1,725,229; Aug. 20.
- Tronolone, Dominick. (See Kelley, W. V. D., and Tronolone.)
- Tropp, Herman, New York, N. Y. Rotary internal-combustion engine. 1,739,104; Dec. 10.
- Trosch, Alfred, assignor to Consolidated Machine Tool Corporation of America, Rochester, N. Y. Bending machine. 1,702,856; Feb. 19.
- Trosch, Alfred, assignor to Consolidated Machine Tool Corporation of America, Rochester, N. Y. Crank-planing machine. 1,735,188; Nov. 12.
- Troskin, Leon. (See Foster, N., and Troskin.)
- Trostel, Louis J., Baltimore, Md., assignor to General Refractories Company, Philadelphia, Pa. Making refractory composition and articles therefrom. 1,716,395; June 11.
- Trott, Amy S. (See Shaffer, Charles H., assignor.)
- Trott, Harvey B., McKeesport, Pa. Electric switch. 1,713,199; May 14.
- Trotter, Henry R., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Relief valve. 1,697,937; Jan. 8.
- Trottier, René E., Puteaux, France. Apparatus for separating minerals or other materials. 1,729,913; Oct. 1.
- Trotman, Stafford, Milwaukee, assignor, by mesne assignments, to Rosenthal Manufacturing Company, West Allis, Wis. Corn harvester. 1,722,717; July 30.
- Troup, George M., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigeration apparatus. 1,704,522; Mar. 5.
- Trout, Ed. T., Chillicothe, Tex. Header or boll puller. 1,723,587; Aug. 6.
- Trout, William A. (See Rasmussen, C. A., and Trout.)
- Trout, William A. (See Rasmussen, C. A., Butler, and Trout.)
- Trouth, Ralph H., Edmonton, Alberta, Canada. Building construction. 1,708,163; Apr. 9.
- Trouth, Ralph H., assignor of one-half to J. H. Bluechel, Edmonton, Alberta, Canada. Building construction. 1,708,162; Apr. 9.
- Trovato, Joseph, et al. (See Fiore, Lorenzo A., assignor.)
- Trowbridge, William H., Georgetown, Ky. Tobacco press. 1,700,388; Jan. 29.
- Troxel, Cecil O., Ninnekah, Okla. Sled-axle plow attachment. 1,712,912; May 14.
- Troy Laundry Machinery Company. (See Adams, Arthur, H., assignor.)
- Troy Laundry Machinery Co. (See Henry, William F., assignor.)
- Troy Laundry Machinery Company. (See Rogan, John J., assignor.)
- Troy, Max, Brooklyn, assignor to General Linen Supply & Laundry Co. Inc., New York, N. Y. Washing machine. 1,737,480; Nov. 26.
- Troy Sunshade Company, The. (See Dillingham, Frederick A., assignor.)
- Troy Sunshade Company, The. (See Snook, Clarence G., assignor.)
- Troyer, Nelson, assignor to Seattle Astoria Iron Works, Seattle, Wash. Adjustable die. 1,704,874; Mar. 12.
- Troyer, Roy S., Aurora, Ohio. Road-material spreader and surfacer. 1,724,054; Aug. 13.
- Tru-Art Corporation. (See Boyce, Charles M., assignor.)
- Trudeau, John F., assignor to Electro Dynamic Company, Bayonne, N. J. Dynamo cleaning and cooling device. 1,719,407; July 2.
- True, George E., assignor of one-half to D. C. Ralston, Leavenworth, Kans. Laundry marker. 1,723,588; Aug. 6.
- Truehauf Trailer Company. (See Reid, Frederick M., assignor.)
- Truelson, Arthur J., Salt Lake City, Utah. Condenser-shaft regulator. 1,700,150; Jan. 29.
- Truemper, John C., Indianapolis, Ind. Hood or shield for awnings and making the same. 1,727,528; Sept. 10.
- Truesdell, Arthur E., Pittsfield, Mass. Limekiln with pyrometer mechanism. 1,706,423; Mar. 26.
- Truesdell, Benjamin F., Collingwood, Ontario, Canada. Oil burner. 1,733,287; Oct. 29.
- Truesdell, John G., Colorado Springs, Colo. Ice-cream cutting and measuring dispenser. 1,712,317; May 7.
- Truett, Velma S., and H. H. George, San Francisco, Calif. Banjo stand. 1,708,285; Apr. 9.
- Trufant, Walter E., Whitman, Kans. Cranberry-picking machine. 1,725,382; Aug. 20.
- Truffaut, Georges, Versailles, France. Arrangement of pieces of furniture adapted for the organization of commercial and accounting departments. 1,733,702; Oct. 29.
- Truitt, Rudolphus G., Appalachia, B. C. Tate, East Stone Gap, and J. W. Qualls, Big Stone Gap, Va. Churn. 1,737,625; Dec. 3.
- Trumble, John T., and F. U. Winchester, Lansing, said Trumble assignor to General Motors Corporation, Detroit, Mich. Muffler. 1,701,397; Feb. 5.
- Trumble, Milton J., Los Angeles, Calif. Treating oil shale. 1,704,956; Mar. 12.
- Trumble, Milton J., Los Angeles, Calif. Producing gasoline from solid material. 1,714,963; May 28.
- Trumble, Milton J., Alhambra, Calif. Operating a battery of retorts. 1,713,794; May 21.
- Trumble, Milton J., Alhambra, Calif. Oil-cracking means and method. 1,724,982; Aug. 20.
- Trumble, Milton J., Alhambra, Calif. Hydrogenating and cracking organization. 1,725,320; Aug. 20.
- Trumble, Milton J., Alhambra, Calif. Screen pipe. 1,725,321; Aug. 20.
- Trumbo, Andrew J. (See Trumbo, Howard and A. J.)
- Trumbo, Howard, Santiago de Cuba, Cuba, and A. J. Trumbo, Los Angeles, Calif., assignors to Manganese Patents Corporation. Concentrating manganese ore. 1,710,522; Apr. 23.
- Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Gilfillan, John M., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Gilfillan, John M., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Hammerly, Herman J., assignor.)
- Trumbull Electric Manufacturing Company. (See Hanny, Charles E., assignor.)
- Trumbull Electric Manufacturing Company, The. (See McGibbon, Albert D., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Platt, Clarence D., assignor.)
- Trumbull Electric Manufacturing Company, The. (See Wheeler, Frank T., assignor.)
- Trumbull, Harlan L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Fiber composition and making the same. 1,708,111; Apr. 9.
- Trump, Edward H., London, England, assignor to Radio Corporation of America. Thermionic amplifier. 1,738,408; Dec. 3.
- Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vibration indicator. 1,702,455; Feb. 19.
- Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,728,518; Sept. 17.
- Trumpler, William E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,730,019; Oct. 1.



- Trumpler, William E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Torsion device for balancing machines. 1,731,880; Oct. 15.
- Trumpler, William E., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,739,105; Dec. 10.
- Trumpler, William E., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Vibration meter. 1,702,456; Feb. 19.
- Trumpler, William E., Easton, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,739,106; Dec. 10.
- Trumpler, William E., Wilkesburg, and C. R. Soderberg, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,709,694; Apr. 16.
- Trumpour, Frederick J., Forest Glen, Md. Blue-printing machine. 1,729,817; Nov. 12.
- Trunkcy, H. D., trustee. (See Granger, Heman H., assignor.)
- Trumpour, Frederick J., Forest Glen, Md. Blue-printing machine. 1,729,462; Sept. 24.
- Trunz, Max, Brooklyn, N. Y. Bacon slicer. 1,728,843; Sept. 17.
- Trupar Manufacturing Company. (See Lindsay, Lynn G., assignor.)
- Truscon Steel Company. (See Heltzel, Francis O., assignor.)
- Truscon Steel Company. (See Jencks, Hollis W., assignor.)
- Truscon Steel Company. (See Kahn, Julius, assignor.)
- Truscon Steel Company. (See Kane, Thomas H., assignor.)
- Truscon Steel Company. (See Nuttall, Park A., assignor.)
- Truscon Steel Company. (See White, Herbert E., assignor.)
- Truscott, Starr. (See Jacobsohn, I. M., and Truscott.)
- Trusler, Frank S., Vernon, Tex. Dental bridge-work construction. 1,714,059; May 21.
- Trusler, Frank S., Vernon, Tex. Artificial tooth. 1,726,130; Aug. 27.
- Trusler, Frank S., Vernon, Tex. Artificial tooth. 1,740,483; Dec. 24.
- Trusler, Ralf B., Pittsburgh, Pa., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Production of benzonitrile and other aryl cyanides. 1,698,973; Jan. 15.
- Trussbilt Steel Doors, Inc. (See Gross, Arthur R., assignor.)
- Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Cover for loose-leaf books. 1,711,161; Apr. 30.
- Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Production of hook plates and hooks for temporary binders. 1,736,808; Nov. 26.
- Trussell, Clyde B., Omaha, Nebr. Holder for sensitized paper. 1,722,718; July 30.
- Trussell, Clyde B., Omaha, Nebr. Printing apparatus. 1,722,719; July 30.
- Trussell, Clyde B., Omaha, Nebr. Print washer. 1,739,742; Dec. 17.
- Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
- Trustees for the Inaugural Committee of 1929 and successive Inaugural Committees. (See Bush-Brown, Henry K., assignor.)
- Trustees of Purdue University. (See Ross, D. E., and Aikenhead, assignors.)
- Tryhorn, Wilfred, assignor to The Pennant Manufacturing Company Limited, Birmingham, England. Tap, more particularly applicable to oil drums. 1,729,914; Oct. 1.
- Tschantz, Elmer J., Canton, Ohio. Radial and end-thrust. 1,702,711; Feb. 19.
- Tschira, Edward, Detroit, Mich. Furnace. 1,715,961; June 4.
- Tschudi, Traugott, Paterson, N. J. Rotary engine. 1,732,995; Oct. 22.
- Tschudin, Charles. (See Chamberlain, C. H., and Tschudin.)
- Tschunkur, Eduard, Cologne, Mulheim, and F. Eichler, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Manufacture of xylenes. 1,727,682; Sept. 10.
- Tseng, Andrew T. K., Detroit, Mich., assignor to Hydraulic Brake Company, Los Angeles, Calif. Fluid composition, roller bearing. 1,700,866; Feb. 5.
- Tsoanacos, George, New York, N. Y. Sounding wheeled toy. 1,707,826; Apr. 2.
- Tsuchii, Rinkichi, Sendai, Japan. Screen. 1,712,858; May 14.
- Tsuge, Tadao, Dairen City, Kwantung Leased Territory, Manchuria. Penholder. 1,729,915; Oct. 1.
- Tunson, Ciriaco, Manila, P. I. Cookstove. 1,706,943; Mar. 26.
- Tubbe, Elsie H., Brooklyn, N. Y. Airplane. 1,731,757; Oct. 15.
- Tubbs, Earl D., New York, N. Y. Device for applying and twisting wire. 1,732,072; Oct. 15.
- Tubbs, Ira I., Superior, Wis. Power-transmission means. 1,720,018; July 9.
- Tubbs, Ira I., Superior, assignor of one-half to G. F. Miller, Menominee, Wis. Inflated ball. 1,730,309; Oct. 1.
- Tubbs, Lester G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction regulator. 1,709,695; Apr. 16.
- Tubbs, W. F., Company, The. (See Aldrich, E. L., and Gibson, assignors.)
- Tubbs, W. F., Company, The. (See Gibson, Louis D., assignor.)
- Tubize Artificial Silk Company of America. (See Coursen, Walter L., assignor.)
- Tuck, Leo J., and L. Getzinger, Sun Prairie, Wis. Crop guard and divider. 1,726,007; Aug. 27.
- Tuck, Russell F., assignor of one-half to P. G. Rohwer, Long Beach, Calif. Rod elevator. 1,709,380; Apr. 16.
- Tuckahoe, Margaret A., executrix. (See Halliwell, John J.)
- Tucker, Arthur W., San Antonio, Tex. Coin-controlled circuit closer. 1,734,838; Nov. 5.
- Tucker, Dee, Davenport, Iowa. Temperature-controlling apparatus. 1,719,949; July 9.
- Tucker, Edna B., New York, N. Y., assignor to International Silver Company, Meriden, Conn. Spoon or similar article. Des. 78,869; June 25.
- Tucker, Edward A., Winchester, Mass. Roadway or pavement. 1,727,258; Sept. 3.
- Tucker, Elia J., Brawley, Calif. Canopy for tractors. 1,712,593; May 14.
- Tucker, Frank S., Seattle, Wash. Trolling spoon. 1,706,906; Mar. 26.
- Tucker, Herbert E., South Bend, Ind., assignor to Universal Draft Gear Attachment Co. Draft gear. 1,739,876; Dec. 17.
- Tucker, Leonard D., and C. A. Boylan, Knoxville, Iowa. Card holder for automobiles. 1,697,700; Jan. 1.
- Tucker, Oliver M., and W. A. Reeves, Columbus, Ohio, assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Method and apparatus for delivering viscous glass. 1,708,037; Apr. 9.
- Tucker, Oliver M., and W. A. Reeves, Columbus, Ohio, assignors, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Method and apparatus for delivering viscous glass. 1,708,069; Apr. 9.
- Tucker, Pinkney R., assignor to L. F. Brunt and L. C. Melchor, Greensboro, N. C. Manure spreader. 1,729,369; Sept. 24.
- Tucker, Ralph H., Los Angeles, Calif. Air-lift pump. 1,714,330; May 21.
- Tucker, Walter N., Monroe, Wash. Poultry feeder. 1,741,083; Dec. 24.
- Tucker, William C. (See Morris, W. H., and Tucker.)
- Tucker, William R., Dawsonville, Ga. Molding faced concrete units. 1,706,865; Mar. 26.
- Tucker, William R., Dawsonville, Ga. Molding faced concrete units. 1,716,094; June 4.
- Tuckerman, Louis B., Washington, D. C. H. N. Eaton, New York, N. Y., and G. H. Keulegan, Washington, D. C. Measuring instrument. 1,723,636; Aug. 6.
- Tuckerman, Louis B., Washington, D. C. Optical lever. 1,736,682; Nov. 19.
- Tuck-Tite Lock & Fastener Company Limited, The. (See Lewis, A., and Widner, assignors.)
- Tuczek, Franz. (See Kumpfmueller, K., Tuczek, and Mayer.)
- Tuerck-Mackenzie Company. (See Tuerck, Oscar, assignor.)
- Tuerck, Oscar, Portland, Oreg., assignor to Tuerck-Mackenzie Company. Off-bearing cart. 1,728,519; Sept. 17.
- Tufenkjian, Philip, Boston, Mass. Mattress. 1,733,034; Oct. 22.
- Tufts, Lesley R., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Automatic positive stop mechanism. 1,714,477; May 21.
- Tufts, Lesley R., assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet-feeding mechanism. 1,720,019; July 9.
- Tugendreich, Julius, Amberg, Germany. Dental clasp. 1,706,086; Mar. 19.
- Tuggy, Effie M., Oakland, Calif. Sanitary cap. 1,703,848; Feb. 26.
- Tulchin, David, New York, N. Y. Turnstile. 1,726,779; Sept. 3.
- Tulip Cup Corporation. (See Reifsnnyder, James D., assignor.)
- Tullis, Ross L., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird-cage stand. 1,719,493; July 2.
- Tully, George L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,727,455; Sept. 10.
- Tully, George L., and N. M. Baker, assignors to American Optical Company, Southbridge, Mass. Goggles. 1,721,168; July 16.
- Tully, John, Pensacola, Fla. Ornamenting plates or blocks. 1,699,413; Jan. 15.
- Tulowitz, Adolph, Detroit, Mich. Oil-temperature control for internal-combustion engines. 1,710,278; Apr. 23.
- Tune, Clary M., Tiptonville, Tenn. Pistol-grip wrench. 1,733,283; Oct. 29.
- Tung-Sol Lamp Works Inc. (See Bohner, Clyde C., assignor.)
- Tunick, Jacob, Brooklyn, N. Y. Spoon. 1,708,456; Apr. 9.
- Tunison, Burnell R., Elizabeth, N. J. Flotation agent and producing same. 1,709,447; Apr. 16.
- Tunison, Murray C., Fullerton, Calif. Airplane. Des. 79,768; Oct. 29.
- Tunks, Ina M., Lincoln, Nebr. Doll laundry bag. Des. 77,796; Feb. 19.



- Tunno, Wyckliffe C., Savannah, Ga. Wheel rim. 1,737,742; Dec. 3.
- Tunstall, William B., and H. H. Wright, Worcester, Mass. Electric motor control. 1,714,576; May 28.
- Tuomi, Uno E., Dallas County, assignor to G. Smith, Fort Worth, Tex. Casement window and door straightener. 1,701,766; Feb. 12.
- Tupper, Frank H., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator cylinder. 1,736,988; Nov. 26.
- Turbin, Chester A. (See Bragdon, Herbert J., assignor.)
- Turbinator Company, The. (See Michal, Jaroslav A., assignor.)
- Turbine Patents Corporation. (See Klimek, Gustav A., assignor.)
- Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating machine. 1,714,964; May 28.
- Turcott, David, assignor to Yates-American Machine Company, Beloit, Wis. Steady rest for automatic lathes. 1,736,421; Nov. 19.
- Turek, John, McKees Rocks, Pa. Water-control means for radiators. 1,710,848; Apr. 30.
- Turgeon, Bertha P., New York, N. Y. Straw-hat protector. 1,726,936; Sept. 3.
- Türk, Heinrich, Lutherville, assignor to The Porcelain Enamel & Manufacturing Co., Baltimore, Md. Folding table with enameled top. 1,697,094; Jan. 1.
- Turk, Michael. (See Rokeach, Annie, assignor.)
- Turk, Samuel E., Minden, La., assignor of one-half to M. Spiers, Barth, Miss. Lantern dome. 1,698,662; Jan. 8.
- Turkington, Victor H. (See Redman, L. V., and Turkington.)
- Turkington, Victor H., Chicago, Ill., assignor to Bakelite Corporation, New York, N. Y. Molding mixture and making the same. 1,728,378; Sept. 17.
- Turlington, Charles D., Lillington, assignor of one-half to E. F. Young, Dunn, N. C. Shade-roller-retaining means. 1,720,580; July 9.
- Turlington, Charles D., Lillington, assignor of one-half to E. F. Young, Dunn, N. C. Trace-chain hook. 1,736,062; Nov. 19.
- Turnal, Ladislaus. (See Moussong, Paul and A., assignors.)
- Turnbow, Grover D., Davis, assignor of one-half to C. E. Gray, Oakland, Calif. Apparatus for producing frozen food products. 1,699,170; Jan. 15.
- Turnbow, Grover D., Davis, assignor of one-half to C. E. Gray, Oakland, Calif. Frozen-food product and making same. 1,737,101; Nov. 26.
- Turnbull, Daniel G., New York, N. Y., assignor to Leigh Potters, Inc., Alliance, Ohio. Plate or similar article. Des. 78,907; July 2.
- Turnbull, David C., Mishawaka, Ind., assignor to Dodge Manufacturing Corporation. Holdback. 1,697,333; Jan. 1.
- Turnbull, Nicholas K., Millport, Scotland. Galvanizing bath. 1,736,948; Nov. 26.
- Turnbull, Percy S. (See Weichelt, F. C., and Turnbull.)
- Turnbull, Stockton G. (See Kokatur, V. R., and Turnbull.)
- Turner, Albert. (See Heald, J. N., and Turner.)
- Turner, Alexander, assignor to The Burke Golf Company, Newark, Ohio. Golf-ball painting and partial-drying machine. 1,714,994; May 28.
- Turner, Archibald J., assignor to Thos. E. Wilson & Co., Chicago, Ill. Inflatable ball. 1,726,088; Aug. 27.
- Turner, Bennett G., Los Angeles, Calif. Auto screen. 1,741,890; Dec. 31.
- Turner, Cameron, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cushion heel. 1,705,597; Mar. 19.
- Turner, Cecil. (See Brauer, L. and Turner.)
- Turner, Charles, Manchester, England. Apparatus for applying and maintaining pressure periodically. 1,697,740; Jan. 1.
- Turner, Charles H., Statesville, N. C. Trashing-machine construction. 1,708,286; Apr. 9.
- Turner, Charles H., Rantoul, Kans. Automobile signal. 1,729,301; Sept. 24.
- Turner, Charles J., Cubitt Town, London, England. Anti-thief device for use on motor vehicles and the like. 1,732,868; Oct. 22.
- Turner, Charles L., Glendale, Calif. Capping machine. 1,731,600; Oct. 15.
- Turner, Claude A. P., Minneapolis, Minn. Concrete-bridge pier and pier foundation. 1,727,085; Sept. 3.
- Turner, David H., Kittanning, Pa. Mine car. 1,725,604; Aug. 20.
- Turner, Edmund P. (See Hill, G., and Turner.)
- Turner, Edward T., Dayton, Ohio. Water-softening apparatus. 1,697,095; Jan. 1.
- Turner, Edward T., Dayton, Ohio. Flow-regulating device for fluids. 1,715,801; June 4.
- Turner, Edward T., Dayton, Ohio. Method and apparatus for reconditioning the water-softening material in a softening apparatus. 1,722,603; July 30.
- Turner, Edwin A. (See Lower, N. M., and Turner.)
- Turner, Edwin A., Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Locomotive stoker. 1,711,466; Apr. 30.
- Turner, Elie N., assignor to H. H. Duchesne, Montreal, Quebec, Canada. Portable stove. 1,701,989; Feb. 12.
- Turner, Elisha C., and S. S. Grammer, Wright City, Okla. Set works. 1,716,396; June 11.
- Turner, Elsie F., Erdington, Birmingham, assignor to W. Vennard, London, England. Loose-leaf thong mechanism. 1,719,735; July 2.
- Turner, Ernest, Manchester, England. Flame singeing machine. 1,714,410; May 21.
- Turner, Escer E., Ocoee, Fla. Refrigerator. 1,703,124; Feb. 26.
- Turner, Eugene C., San Diego, Calif. Combination bolt and hasp. 1,734,655; Nov. 5.
- Turner, Floyd F., and J. A. Brubaker, assignors to The Houghton Elevator and Machine Company, Toledo, Ohio. Door-operating mechanism. 1,707,648; Apr. 2.
- Turner, Frank, New York, N. Y. Musical instrument. 1,713,012; May 14.
- Turner, Frank F., Little Falls, Minn. Heater. 1,710,596; Apr. 23.
- Turner, George E., New Lexington, Ohio. Removable track and handling same. 1,724,237; Aug. 13.
- Turner, George W., Excelsior Springs, Mo. Airship. 1,741,446; Dec. 31.
- Turner Glass Company. (See Edwards, Wilson D., assignor.)
- Turner Glass Company. (See Teague, Walter D., assignor.)
- Turner Glass Company. (See Walker, Robert E., assignor.)
- Turner, Guy C., et al. (See Craig, Chester J., assignor.)
- Turner, Hallie E., Beaumont, Tex. Whipstock. 1,715,686; June 4.
- Turner, Isaac L., Chariton, Iowa. Radiator-cap ornament. Des. 78,950; July 9.
- Turner, James, Campbell, Calif. Fruit cutting and pitting machine. 1,739,995; Dec. 17.
- Turner, James S., assignor, by mesne assignments, to Byron Jackson Manufacturing Company, Oxnard, Calif. Oil-well tongs or wrench. 1,718,719; June 25.
- Turner, Jarvis C., and W. L. Cropper, Omaha, Nebr. Poster-display device. 1,701,710; Feb. 12.
- Turner, John E., assignor to Johnson & Johnson, New Brunswick, N. J. Single-use tube. 1,719,736; July 2.
- Turner, John J., Batavia, N. Y., assignor to Universal Gypsum & Lime Co., Chicago, Ill. Method of and apparatus for cutting plaster board or analogous materials. 1,716,991; June 11.
- Turner, Joseph E., Manitou, Colo. Radio static-eliminating apparatus. 1,698,380; Jan. 8.
- Turner, Joseph O., Winston-Salem, N. C., assignor to The Mengel Company, Louisville, Ky. Fastener-setting machine. 1,739,021; Dec. 10.
- Turner, Lewis I. (See Newitt, F. T., La Plant, and Turner.)
- Turner, Louis J., Ottawa, Ontario, Canada. Variable-speed power-transmitting mechanism. 1,718,092; June 18.
- Turner Machine Company. (See Wheeler, Leland, assignor.)
- Turner, Mark C., assignor to Johnson & Turner Limited, Hyde, England. Lamp. 1,722,360; July 30.
- Turner, Mildred B., South Euclid, Ohio. Form-retaining device for gloves. 1,733,680; Oct. 29.
- Turner, Oscar A., Chicago, Ill. Drafting instrument. 1,732,073; Oct. 15.
- Turner, Ray. (See Brauer, L., and Turner.)
- Turner, Richard G. (See Payne, O. V., and Turner.)
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft replenishing mechanism for double-shuttle looms. 1,703,909; Mar. 5.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slipping weft detector. 1,703,910; Mar. 5.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrical warp stop motion for looms. 1,703,911; Mar. 5.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Whip roll for looms. 1,707,374; Apr. 2.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Feeler for looms. 1,707,827; Apr. 2.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom temple. 1,715,962; June 4.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for box looms. 1,715,963; June 4.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lubricator for loom picker spindles. 1,724,324; Aug. 13.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for drop-box looms. 1,726,780; Sept. 3.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Yieldable thread holder for weft-replenishing loom. 1,730,020; Oct. 1.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread holder for weft-replenishing looms. 1,730,021; Oct. 1.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector for looms. 1,734,062; Nov. 5.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shedding mechanism for looms. 1,737,689; Dec. 3.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin for weft-replenishing looms. 1,739,187; Dec. 10.



- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion for looms. 1,741,210; Dec. 31.
- Turner, Robert C., assignor, by mesne assignments, to Strike-Em-Out Base Ball Inc., Boston, Mass. Game apparatus. 1,731,477; Oct. 15.
- Turner Rotary Plows. (See Turner, W., and Burton, assignors.)
- Turner, Samuel, and T. Eastaugh, Rochdale, assignors to Samuel Turner & Company, Limited, Spotland, Rochdale, England. Loom for weaving. 1,722,604; July 30.
- Turner, Samuel, and T. Eastaugh, Rochdale, assignors to Samuel Turner & Company, Limited, Spotland, Rochdale, England. Loom for weaving. 1,722,605; July 30.
- Turner, Samuel, and T. Eastaugh, Rochdale, assignors to Samuel Turner & Company, Limited, Spotland, Rochdale, England. Loom for weaving. 1,722,606; July 30.
- Turner, Samuel, and T. Eastaugh, Rochdale, assignors to Samuel Turner & Company, Limited, Spotland, Rochdale, England. Loom for weaving. 1,722,607; July 30.
- Turner, Samuel, and T. Eastaugh, Rochdale, assignors to Samuel Turner & Company, Limited, Spotland, Rochdale, England. Shuttle for looms. 1,722,608; July 30.
- Turner, Samuel, and T. Eastaugh, assignors to Samuel Turner & Company, Limited, Spotland, Rochdale, England. Loom for weaving. 1,722,868; July 30.
- Turner, Samuel, & Company. (See Turner, S., and Eastaugh, assignors.)
- Turner, Samuel E., Wichita Falls, Tex. Outlet valve for tank cars. 1,730,833; Oct. 8.
- Turner, Samuel E., assignor to Panhandle Refining Company, Wichita Falls, Tex. Outlet valve for tank cars. 1,730,636; Oct. 8.
- Turner, Sterling, assignor to Hygrade Lamp Co., Salem, Mass. Incandescent lamp. 1,715,580; June 4.
- Turner Tanning Machinery Company, The. (See Ballard, Harrie A., assignor.)
- Turner Tanning Machinery Company, The. (See Becker, Charles H., assignor.)
- Turner Tanning Machinery Company, The. (See Elliott, Elias L., assignor.)
- Turner Tanning Machinery Company, The. (See Jones, Albert F., assignor.)
- Turner Tanning Machinery Company, The. (See Schettler, Gustav A., assignor.)
- Turner, William, Chicago, and P. C. Burton, Hinsdale, assignors to Turner Rotary Plows, Chicago, Ill. Earth working. 1,699,552; Jan. 22.
- Turner, William J., Seekonk, Mass. Apparatus for burning liquid fuel. 1,718,614; June 25.
- Turner, William S., Detroit, Mich., assignor to The Paine and Williams Company, Cleveland, Ohio. Floor covering for automobiles and the like. 1,715,523; June 4.
- Turney, Harry, Reading, Ohio. Internal-combustion engine. 1,731,601; Oct. 15.
- Turney, Harry L., Portland, Ore. Aerial conveyer system. 1,697,938; Jan. 8.
- Turney, Harry L., Portland, Ore. Aerial conveyer system. 1,697,939; Jan. 8.
- Turney, Harry L., Portland, Ore. Conveying system. 1,697,940; Jan. 8.
- Turney, Harry L., Portland, Ore. Clutch mechanism. 1,710,441; Apr. 23.
- Turney, William S., Conroe, Tex., and A. N. Long, Jr., Greensburg, Pa.; said Long assignor to said turney. Telephone. 1,713,061; May 14.
- Turnham, Henry C. (See Newnham, F., and Turnham.)
- Turnock, Lawrence C., Edgewood, Pa. Method and apparatus for electrodeposition. 1,712,284; May 7.
- Turnock, Lawrence C., Cleveland Heights, Ohio. Production of printing plates from electrotypes. 1,727,259; Sept. 3.
- Turnquist, Anna S., Minneapolis, Minn. Bracelet. Des. 77,925; Mar. 5.
- Turreff, Stanley J., St. Louis, Mo., assignor to The Union Switch & Signal Company, Swissvale, Pa. Selective signaling system. 1,735,189; Nov. 12.
- Turrell, Charles E., Lakewood, assignor to The Monobloc Company, Dover, Ohio. Moldine. 1,707,585; Apr. 2.
- Turrentine, John W., Washington, D. C. Recovering iodine. 1,708,287; Apr. 9.
- Turrill, Arthur L. (See Thurlby, T., and Turrill.)
- Tursky, Charles M., assignor to Whaley Engine Patents, Inc., New York, N. Y. Fuel-oil valve. 1,737,985; Dec. 3.
- Turturro, Nicola, New York, N. Y. Stringed musical instrument. 1,723,751; Aug. 6.
- Turvane, John C., Dayton, Ohio. Valve-operating mechanism. 1,719,737; July 2.
- Tuscher, Jean B., Paris, France. Rotary engine. 1,741,084; Dec. 24.
- Tuska, Clarence D., Hartford, Conn., assignor, by mesne assignments, to Radio Corporation of America. Condenser. 1,708,110; Apr. 9.
- Tuska, Clarence D., Hartford, Conn., assignor, by mesne assignments to Radio Corporation of America. Variable-capacity apparatus. 1,737,277; Nov. 26.
- Tuska, Clarence D., and P. H. Spencer, Hartford, Conn., assignors, by mesne assignments, to Radio Corporation of America. Condenser. 1,708,527; Apr. 9.
- Tussey, Thomas C. (See Harmon, F., and Tussey.)
- Tustin, Arnold. (See Fletcher, G. H., and Tustin.)
- Tüszek, Franz. (See Abild, A., Jipp, Steiner, and Tüszek.)
- Tute, Karl, Berlin-Schöneberg, Germany. Device for securing flexible pipes. 1,726,871; Sept. 3.
- Tuteur, Julius, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Vacuum cleaner. 1,728,021; Sept. 10.
- Tuthill, Henry G., Los Angeles, Calif., assignor to E. B. Hollis, Los Angeles, Calif. Automatic lawn sprinkler. 1,716,015; June 4.
- Tuthill, James B. (See Wilsey, Irven H., assignor.)
- Tuthill, Katherine, Oakland, Calif. Shoulder-strap supporter. 1,730,696; Oct. 8.
- Tutin, John, Sunderland, England. Ship's rudder. 1,699,931; Jan. 22.
- Tuttle, Burr W., Chicago, Ill. Cement. 1,719,914; July 9.
- Tuttle, Grover G. (See Bayles, L. C., and Tuttle.)
- Tuttle, Henry A., Upton, Mass. Reversing gearing. 1,727,624; Sept. 10.
- Tuttle, Henry W., Chicago, Ill. Refreshment-dispensing booth. Des. 78,719; June 11.
- Tuttle, Montague H., Atlanta, Ga. Transportation system. 1,701,647; Feb. 12.
- Tuttle, Thomas T., Norwalk, Conn. Reversing device for marine propulsion. 1,697,096; Jan. 1.
- Tuxhorn, Wilhelm, assignor to the Firm William Prym G. m. b. H., Stolberg, Germany. Press button. 1,720,981; July 16.
- Tvestmann, Rudolf, assignor, by mesne assignments, to C. E. Dressler, New York, N. Y. Blood-pressure-recording instrument. 1,716,472; June 11.
- Twaddle, William F., assignor to Amoskeag Manufacturing Company, Manchester, N. H. Cloth-piling machine. 1,704,066; Mar. 5.
- Twaddle, William F., assignor to Amoskeag Manufacturing Company, Manchester, N. H. Cloth-piling mechanism. 1,738,084; Dec. 3.
- Tweed, Robert R., Audubon, N. J. Horeshoe. 1,702,882; Feb. 19.
- Tweet, John B., Franklin, assignor of one-fourth to S. Hatlestad, Minneapolis, and one-fourth to E. J. Mielke, Hamburg, Minn. Hen's nest. 1,721,649; July 23.
- Tweet, John B., Franklin, assignor of one-fourth to S. Hatlestad, Minneapolis, and one-fourth to E. J. Mielke, Hamburg, Minn. Hen's nest. 1,721,650; July 23.
- Tweit, Olav, Orange, N. J., assignor to Semet-Solvay Engineering Corporation, New York, N. Y. Truck. 1,698,248; Jan. 8.
- XXth Century Heating and Ventilating Company, The. (See Kerch, John, assignor.)
- Twentieth Century Machinery Company, The. (See Fischer, Charles A., assignor.)
- Twetten, Clarence H., assignor of one-third to A. M. Hudson, Round Lake, Minn. Signal control for automobiles. 1,738,975; Dec. 10.
- Twiford, William H., Norfolk, Va. Dredging apparatus. 1,705,428; Mar. 12.
- Twigg, Charles A. (See Spinney, A. G., and Twigg.)
- Twigg, Charles A., and A. G. Spinney, Cortland, Me. Safety device for boilers. 1,697,621; Jan. 1.
- Twinberrow, James D. (See Sheffield, G. H., and Twinberrow.)
- Twin City Forge & Foundry Company. (See Overstrud, Melvin, assignor.)
- Twin Coupler Company. (See Sutherland, Emil, assignor.)
- Twin Disc Clutch Company, The. (See Pearmain, William J., assignor.)
- Twinning, Ralph H., Marquette, Mich., assignor to The Cleveland-Cliffs Iron Company, Cleveland, Ohio. Process of and apparatus for distilling wood. 1,716,745; June 11.
- Twiss, Douglas F., and E. A. Murphy, assignors to Dunlop Rubber Company Limited, Birmingham, England. Manufacture of tubes of india rubber or similar material and apparatus therefor. 1,738,268; Dec. 3.
- Twitshell Process Company, The. (See Fischer, C., and Reddish, assignors.)
- Twitshell Process Company, The. (See Fischer, C., jr., and Reddish, assignors.)
- Twitshell Process Company, The. (See Fischer, C., jr., and Stegemeyer, assignors.)
- Twitshell Process Company, The. (See Peirce, J. O., and Reddish, assignors.)
- Twitty, Joseph E., Jacksonville, Fla. Portable sectional refrigerator. 1,698,517; Jan. 8.
- Two-Car Transportation Company. (See Gibbs, Leon M., assignor.)
- Two Season Process, Inc., The. (See Grafflin, Lewis, assignor.)
- Two-Season Process, Inc., The. (See Posey, James, assignor.)
- Twyman, B. Wickliffe. (See Keeports, Harry H., assignor.)
- Twyman, B. Wickliffe, Indianapolis, Ind. Cowl-ventilator mounting for flexible bodies. 1,710,905; Apr. 30.
- Twyman, B. Wickliffe, Indianapolis, Ind., and N. E. Wahlberg, Kenosha, Wis. Counterweight for shafts and method for attaching. 1,705,165; Mar. 12.
- Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Heat treatment of metal articles. 1,702,985; Feb. 19.
- Tybon Corporation. (See Somers, Elward B., assignor.)
- Trden, Emil, Evanston, Ill. Valve-seat cutter. 1,704,957; Mar. 12.
- Tyden, Emil, Evanston, Ill. Valve for sprinkler systems. 1,741,548; Dec. 31.
- Tygert, Cyril B. (See Taveau, R. de M., and Tygert.)
- Tyler, Ann, Los Angeles, Calif. Half pants for babies. 1,723,317; Aug. 6.



Tyler, John (See Higgins, Clifford B. and H. A., and Tyler.)  
 Tyler, John A., Los Angeles, Calif. Water heater. 1,705,882; Mar. 12.  
 Tyler Manufacturing Company, The. (See Sowers, James L., assignor.)  
 Tyler, Tracy B., Detroit, Mich. Positive-drive clutch. 1,702,753; Feb. 19.  
 Tyler, Tracy B., Detroit, Mich., assignor to Lassiter-Bowman-Tyler Syndicate, Detroit, Mich.; R. E. Lassiter, T. W. Bowman, and W. C. Hall, trustees. Vehicle transmission. 1,702,752; Feb. 19.  
 Tyler, Walter A., Brooklyn, and R. Stark, Stapleton, N. Y., assignors to L. A. Dreyfus Company. Filter press. 1,714,331; May 21.  
 Tyler, William C., assignor to Ajax Rubber Company, Inc., Racine, Wis. Tire. Des. 78,700; June 4.  
 Tyler, William C., assignor to Ajax Rubber Company, Inc., Racine, Wis. Tire. Des. 79,271; Aug. 20.  
 Tyler, W. S., Company, The. (See Disbro, Roger W., assignor.)  
 Tyler, W. S., Company, The. (See Nickerson, Franklin P., assignor.)  
 Tyler, W. S., Company, The. (See Reynolds, Morley P., assignor.)  
 Tyner, Harry F., Outremont, Quebec, Canada. Wood-grinding machine. 1,719,636; July 2.  
 Tyner, Ralph T., Sound Beach, Conn. Nest of chairs. 1,716,746; June 11.  
 Type Registering Scale Company. (See Sweet, M. A., and Britton, assignors.)  
 Typograph G. m. b. H. (See Blume, Wilhelm, assignor.)  
 Tyson, Frank, assignor of one-half to L. G. Pritz, Canton, Ohio. Vacuum cleaner. 1,740,525; Dec. 24.  
 Tyson, Robert B., Longview, Tex., assignor, of thirty-nine per cent to R. C. Berry and twenty per cent to L. C. Butler, Shreveport, La. Gas burner. 1,699,318; Jan. 15.  
 Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling sheets. 1,704,640; Mar. 5.  
 Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Sheet mill. 1,729,693; Oct. 1.  
 Tzika, Ambrose, assignor of one-half to H. W. Ramsey, Cedar Grove, W. Va. Air-pump-operating device. 1,721,360; July 16.  
 Ubel, Frank A., Inc. (See Ubel, Frank A., assignor.)  
 Ubel, Frank A., assignor to Frank A. Ubel, Inc., St. Paul, Minn. Optical mounting. Des. 78,546; May 14.  
 Uehytill, Frank A. (See Witham, David W., assignor.)  
 Uekotter, Joseph C., Covington, Ky. Awning arm. 1,732,489; Oct. 22.  
 Udall, John P., Birmingham, England. Display or advertising device. 1,723,534; Aug. 6.  
 Udale, Stanley M., assignor to G. M. Holley, Detroit, Mich. Carburetor. 1,726,324; Aug. 27.  
 Udall, Philip A., New York, N. Y. Combined cigarette case and lighter. 1,709,502; Apr. 16.  
 Uddenborg, Johan R., assignor of one-half to A. V. Hall, Chicago, Ill. Windshield wiper. 1,727,456; Sept. 10.  
 Udy, Marvin J., Niagara Falls, N. Y. Making chromic acid. 1,739,107; Dec. 10.  
 Uehling, Fritz F., Passaic, N. J. Recording galvanometer. 1,727,494; Sept. 10.  
 Ueki, Sakae. (See Kujirai, T., and Ueki.)  
 Ueki, Sakae. (See Setoh, S., and Ueki.)  
 Ueki, Uno, administratrix. (See Setoh, S., and Ueki.)  
 Ufer, Hubert, Berlin, Germany. File with double cut. 1,725,686; Aug. 20.  
 Ufford, Charles A., Dorchester, Mass. Dress form. 1,717,477; June 18.  
 Ufford, George W., Philadelphia, and H. E. Allen, Highland Park, assignors to The Safeguard Electric Appliance Co., Philadelphia, Pa. Thermostatic plug. 1,710,955; Apr. 30.  
 Ugglä, Wilhelm R., Morby, Sweden. Resilient driving connection. 1,728,844; Sept. 17.  
 Ugglä, Wilhelm R., Morby, Stocksund, and A. G. F. Wallgren, Stockholm, Sweden. Electric gearing motor with centrifugal clutch. 1,708,000; Apr. 9.  
 Ugglä, Wilhelm R., Morby, Stocksund, and A. G. F. Wallgren, Stockholm, Sweden. Centrifugal clutch. 1,733,703; Oct. 29.  
 U. G. I. Contracting Company, The. (See Dashiell, Philip T., assignor.)  
 U. G. I. Contracting Company, The. (See Fulweiler, Walter H., assignor.)  
 U. G. I. Contracting Company. (See Lentz, Harry R., assignor.)  
 U. G. I. Contracting Company, The. (See Rusby, John M., assignor.)  
 U. G. I. Contracting Company, The. (See Rusby, J. M., and Andrews, assignors.)  
 Ugine-Infra. (See Sorrel, V., and Lafont, assignors.)  
 Uher, Anton, Ord, Nebr. Grain-adjusting device. 1,700,389; Jan. 29.  
 Uher, Edmund, jr., Budapest, Hungary. Arrestment. 1,718,615; June 25.  
 Uhl, Arthur W., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Damping means for indicators. 1,711,003; Apr. 30.  
 Uhler, Louis S., Detroit, Mich. Motion-picture machine. 1,719,205; July 2.  
 Uhler, Wilmer P. (See Swartz, T. A., and Uhler.)

Uhlich, Paul, Berlin-Weissensee, Germany, assignor to Gleason Works, Rochester, N. Y. Machine for the manufacture of the curved teeth of bevel wheels. 1,725,431; Aug. 20.  
 Uhlig, George, Portland, Oreg. Egg-breaking device. 1,727,260; Sept. 3.  
 Uhlig, Johannes H., Detroit, Mich. Padding for rolls. 1,726,781; Sept. 3.  
 Uhlig, Richard, Dessau, Germany. Coal dust furnace. 1,701,900; Feb. 12.  
 Uhlig, Richard W., Newark, N. J., assignor to A. Voight Brooklyn, N. Y. Typewriting machine. 1,738,677; Dec. 10.  
 Uhlinger, Roy H., assignor to Thermatomic Carbon Company, Pittsburgh, Pa. Producing carbon black. 1,707,775; Apr. 2.  
 Uhlinger, Roy H., assignor to Thermatomic Carbon Company, Pittsburgh, Pa. Apparatus for the production of carbon black. 1,718,720; June 25.  
 Uhlir, William G., Harvey, Ill. Porch swing and like device. 1,726,251; Aug. 27.  
 Uhlman, John J., and E. H. Johnson, Harlan, Ky. Safety-brake stick. 1,709,417; Apr. 16.  
 Uhrig, John H., Beverly, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Covered trough. 1,697,889; Jan. 8.  
 Uhrig, John H., Beverly, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Machine for boring spherical sockets. 1,710,462; Apr. 23.  
 Uibel, Frank J. (See Muck, John, assignor.)  
 Uitts, Mott M. (See Butz, D. W., and Uitts.)  
 Ulbrecht, Robert, Chicago, Ill. Slicing machine. 1,735,818; Nov. 12.  
 Ulbricht, Ernst. (See Nobst, G., and Ulbricht.)  
 Ulfers, Ira, Milwaukee, Wis. Rope lock. 1,713,106; May 14.  
 Ullgren, Johan D., Stocksund, Sweden. Barking drum. 1,700,390; Jan. 29.  
 Ullmann, F. G. m. b. H. (See Ullmann, Max, assignor.)  
 Ullmann, Fritz, Charlottenburg, and G. Trewendt, assignors to J. Michael & Co., Berlin, Germany. Manufacture of arsenic acid. 1,699,823; Jan. 22.  
 Ullmann, Max, assignor to F. Ullmann G. m. b. H., Zwickau, Germany. Production of printing plates. 1,704,523; Mar. 5.  
 Ulmer, Walter V., Oakland, Calif. Fountain pen. 1,714,965; May 28.  
 Ulmon, Frank S. (See Bruce, Hugh D., assignor.)  
 Ulrich, Fred J., Kalamazoo, Mich. Combined radiator shell and lamp housing. Des. 78,668; May 28.  
 Ulrich, Georg, Magdeburg, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Process and apparatus for the wet-magnetic separation of ores and other mixtures of materials on drum separators. 1,697,375; Jan. 1.  
 Ulrich, Gustav C., assignor to The Republic Metalware Co., Buffalo, N. Y. Sprinkling can. 1,699,459; Jan. 15.  
 Ulrich, Gustav C., assignor to The Republic Metalware Co., Buffalo, N. Y. Garbage receptacle. 1,714,332; May 21.  
 Ulman, Rosanna D., assignor to International Corset Company, Aurora, Ill. Corset. 1,738,158; Dec. 3.  
 Ulmer, George G. jr., assignor to Standard Sterilizer Manufacturing Company, Minneapolis, Minn. Bedside table. 1,737,441; Nov. 26.  
 Ulmer, Joseph A., Los Angeles, Calif. Igniting device for smudge pots. 1,701,133; Feb. 5.  
 Ulmer Machinery Corporation. (See Martin, Earl, assignor.)  
 Ulrey, Clayton T. (See Marden, J. W., Ulrey, and Ehrke.)  
 Ulrey, Clayton T., East Orange, N. J., assignor to Westinghouse Lamp Company. Safety device for electron-discharge tubes. 1,704,267; Mar. 5.  
 Ulrey, Clayton T., East Orange, and H. D. Madden, Newark, N. J., assignors to Westinghouse Lamp Company. X-ray tube. 1,715,150; May 28.  
 Ulrey, Clayton T., East Orange, and L. F. Eurke, Newark, N. J., assignors to Westinghouse Lamp Company. Composite anode for X-ray tubes. 1,715,151; May 28.  
 Ulrey, Clayton T., East Orange, and L. F. Ehrke, Newark, N. J., assignors to Westinghouse Lamp Company. X-ray tube. 1,715,152; May 28.  
 Ulrey, Dayton, and L. N. Crichton, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Circuit interrupter. 1,699,769; Jan. 22.  
 Ulrey, Dayton, Wilkinsburg, and C. Kirwer, East Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Space current device. 1,716,157; June 4.  
 Ulrich, Carl J., assignor, by mesne assignments, to Northern Equipment and Supply Company, Minneapolis, Minn. Fruit-juice extractor. 1,698,860; Jan. 15.  
 Ulrich, Charles B., Jamestown, N. Y. Vertical file. 1,698,518; Jan. 8.  
 Ulrich, Frederick, New York, N. Y. Separable fastener. 1,723,496; Aug. 6.  
 Ulrich, Horace W., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,708,960; Apr. 16.  
 Ulrich, Horace W., Newark, N. J. and W. B. Prince, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,719,494; July 2.  
 Ulrich, Otto W., Chicago, Ill. Wall construction. 1,725,230; Aug. 20.  
 Ulrich, Thomas E. (See McCormack, C. E., and Ulrich.)



- Olsh, William F., Hutchinson, Kans. Watermelon tongs. 1,705,652; Mar. 19.
- Olstrom, Alger R., Minneapolis, Minn., assignor, by mesne assignments, to General Mills, Inc. Electrical control system. 1,741,170; Dec. 31.
- Umbeck, Ella, Washington, D. C. Educational device. 1,734,544; Nov. 5.
- Umberger, Jacob M. and V. S. Perrine, Monument, Ill. Fastener for the lids of milk or cream cans. 1,703,800; Feb. 26.
- Umpleby, Fred, Lockwood Huddersfield, England. Catalytic gas generator. 1,738,620; Dec. 10.
- Umscheid, Aloysius L., St. George, Kans. Electric-cord take-up. 1,697,033; Jan. 1.
- Umstattd, William E., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller bearing. 1,727,576; Sept. 10.
- Una Welding & Bonding Company. (See Bricker, Orrin W., assignor.)
- Una Welding & Bonding Company. (See Fehr, Roy B., assignor.)
- Underdahl, Birger, Portland, Oreg. Dental press. 1,699,932; Jan. 22.
- Underwood, Charles E., and J. A. Beatty, Bethlehem, Pa., assignors to Bethlehem Steel Company. Fuel-distributing apparatus. 1,739,929; Dec. 17.
- Underwood Elliott Fisher Company. (See Blaisdell, Harrison O., assignor.)
- Underwood Elliott Fisher Company. (See Campbell, George W., assignor.)
- Underwood Elliott Fisher Company. (See Conrad, Frederick U., assignor.)
- Underwood Elliott Fisher Company. (See Cooper, John J., assignor.)
- Underwood Elliott Fisher Company. (See Corcoran, C. B., and Kurowski, assignors.)
- Underwood Elliott Fisher Company. (See Des Jardins, Benjamin M., assignor.)
- Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)
- Underwood Elliott Fisher Company. (See Dunn, Joseph A., assignor.)
- Underwood Elliott Fisher Company. (See Hoellrigl, Joseph, assignor.)
- Underwood Elliott Fisher Company. (See Howell, Charles W., assignor.)
- Underwood Elliott Fisher Company. (See Imbus, Alphonse E., assignor.)
- Underwood Elliott Fisher Company. (See Johnson, Arthur A., assignor.)
- Underwood Elliott Fisher Company. (See Kupetz, Adolph G., assignor.)
- Underwood Elliott Fisher Company. (See Kurowski, A. G. F., and Norin, assignors.)
- Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
- Underwood Elliott Fisher Company. (See Lindburg, Joseph, assignor.)
- Underwood Elliott Fisher Company. (See Meinecke, Otto J., assignor.)
- Underwood Elliott Fisher Company. (See Melton, Max E., assignor.)
- Underwood Elliott Fisher Company. (See Muggli, Jakob, assignor.)
- Underwood Elliott Fisher Company. (See Oswald, Alfred E., assignor.)
- Underwood Elliott Fisher Company. (See Reimers, Arthur G., assignor.)
- Underwood Elliott Fisher Company. (See Renz, George W., assignor.)
- Underwood Elliott Fisher Company. (See Schneider, Josef C. M., assignor.)
- Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
- Underwood Elliott Fisher Company. (See Stickney, Burnham C., assignor.)
- Underwood Elliott Fisher Company. (See Toggenburger, John, assignor.)
- Underwood Elliott-Fisher Company. (See Von Reppert, Richard, assignor.)
- Underwood Elliott Fisher Company. (See Waldheim, John, assignor.)
- Underwood, Ernest L., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,711,977; May 7.
- Underwood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Assembling cable releases. 1,723,752; Aug. 6.
- Underwood, John A., assignor to Great Western Stove Company, Leavenworth, Kans. Cooking top for ranges. 1,730,986; Oct. 8.
- Underwood, John B., Grass Valley, Calif. Pocket typewriter. 1,725,231; Aug. 20.
- Underwood, Julius E., and C. A. Cabell, Washington, D. C., assignors to National Lime Association. Plaster. 1,703,125; Feb. 26.
- Underwood Meserve Company. (See Meserve, Forrest C., assignor.)
- Underwood, Weeden B., assignor to Wilmot Castle Company, Rochester, N. Y. Rubber-glove sterilizer. 1,702,673; Feb. 19.
- Underwood, Western, Santa Monica, assignor to La Lux Manufacturing Company, Los Angeles, Calif. Mold construction. 1,700,522; Jan. 29.
- Underwriters Utilities Corp. (See Parker, Thomas H., assignor.)
- Unfried, Eugene, West Orange, N. J. Filler for soap. 1,707,334; Apr. 2.
- Ungar, Fred, San Francisco, Calif. Automobile bumper bracket and auxiliary shock absorber. 1,739,930; Dec. 17.
- Unger, Ernest, Brooklyn, N. Y. Electric heater. 1,696,989; Jan. 1.
- Unger, Lloyd A., trustee. (See Lonaberger, R. F., and Sands, assignors.)
- Unger, Paul O., assignor to McMillan Book Company, Syracuse, N. Y. Leaf flipper. 1,722,645; July 30.
- Unger, Wilfred G., Hagerstown, assignor of one-half to C. L. Page, Baltimore, Md. Internal-combustion engine. 1,700,658; Jan. 29.
- Ungerer, Fritz, Pforzheim, Germany. Method and apparatus for straightening plates. 1,723,098; Aug. 6.
- Ungerer, Howard L., New York, N. Y., assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Annunciator and operating means therefor. 1,740,129; Dec. 17.
- Unglaub, Felix O., Aldan, and J. C. Schmid, Philadelphia, Pa., modifiers for light projectors. 1,732,669; Oct. 22.
- Union Asbestos & Rubber Co. (See Wild, Rudolf L. R., assignor.)
- Union Bag & Paper Corporation. (See Avery, True M., assignor.)
- Union Bank of Chicago. (See Cowles, Irving, assignor.)
- Union Carbide and Carbon Research Laboratories, Inc. (See Coberly, C. J., Wulff, and Holland, assignors.)
- Union Carbide & Carbon Research Laboratories, Inc. (See George, Harry S., assignor.)
- Union Carbide & Carbon Research Laboratories, Inc. (See Lytle, Arthur R., assignor.)
- Union Carbide Sales Company. (See Holladay, James A., assignor.)
- Union Draft Gear Co. (See Barnard, Harry, assignor.)
- Union Draft Gear Company. (See Barnard, H., and Cardwell, assignors.)
- Union Draft Gear Company. (See Cardwell, James R., assignor.)
- Union Draft Gear Company. (See Cotton, Walter H., assignor.)
- Union Draft Gear Company. (See Sproul, Donald F., assignor.)
- Union Drawn Steel Company. (See Benjamin, George M., assignor.)
- Union Drawn Steel Company. (See Leech, Jacob T., assignor.)
- Union Fork & Hoe Company, The. (See Durell, George E., assignor.)
- Union Gas Engine Company. (See Sellden, Tor E., assignor.)
- Union Hardware Company. (See Fritz, A. H., and Pardon, assignors.)
- Union Iron Works. (See Bach, George W., assignor.)
- Union Iron Works. (See Lemmer, William F., assignor.)
- Union Machinery Company. (See Streich, Frank, assignor.)
- Union Machinery Company. (See Streich, F., and Elwood, assignors.)
- Union Manufacturing Company, The. (See Harner, J. Z., and Schweinhart, assignors.)
- Union Metal Manufacturing Company, The. (See Frahm, Carl A., assignor.)
- Union Metal Products Company. (See Gilpin, Garth G., assignor.)
- Union Metal Products Company. (See Small, Arthur E., assignor.)
- Union Miniere du Haut Katanga (Societe Congolaise a Responsabilite Limitee). (See Raick, Julien, assignor.)
- Union Oil Company. (See Rubel, Albert C., assignor.)
- Union Oil Company of California. (See Crell, Edward W., assignor.)
- Union Oil Company of California. (See Lake, Francis W., assignor.)
- Union Oil Company of California. (See Merrill, David R., assignor.)
- Union Oil Company of California. (See Osborne, Patrick H., assignor.)
- Union Oil Company of California. (See Raine, W. A., and Pollock, assignors.)
- Union Oil Company of California. (See Subkow, Philip, assignor.)
- Union Oil Company of California. (See Taylor, Claude C., assignor.)
- Union Railway Equipment Company. (See Kearney, Alex., assignor.)
- Union Railway Equipment Company. (See O'Connor, Arthur F., assignor.)
- Union Simplex Train Control Co. (See Ruthven, Alfred L., assignor.)
- Union Special Machine Company. (See Berger, Joseph, assignor.)
- Union Special Machine Company. (See Biddle, John M., assignor.)
- Union Special Machine Company. (See Christensen, Norman V., assignor.)
- Union Special Machine Company. (See Christensen, N. V., and Le Vesconte, assignors.)
- Union Special Machine Company. (See Hanneman, W. M., and Rideout, assignors.)
- Union Special Machine Company. (See Hanson, Nathan E., assignor.)



- Union Special Machine Company. (See Klemm, Hermann A., assignor.)  
 Union Special Machine Company. (See Le Roy, Walter E., assignor.)  
 Union Special Machine Company. (See Le Roy, W. E., and Foster, assignors.)  
 Union Special Machine Company. (See Le Vesconte, Harold J., assignor.)  
 Union Special Machine Company. (See Mann, Joseph, assignor.)  
 Union Special Machine Company. (See Moffatt, James R., assignor.)  
 Union Special Machine Company. (See Moffatt, J. R., and Kelso, assignors.)  
 Union Special Machine Company. (See Onderdonk, Lansing, assignor.)  
 Union Special Machine Company. (See Rubel, Charles F., assignor.)  
 Union Special Machine Company. (See Tate, Samuel G., assignor.)  
 Union Special Machine Company. (See Theroux, Charley, assignor.)  
 Union Special Machine Company. (See Thompson, C. S., and Long, assignors.)  
 Union Special Machine Company. (See Wohlpart, August J., assignor.)  
 Union Special Maschinenfabrik G. m. b. H. (See Lutz, Friedrich, assignor.)  
 Union Special Maschinenfabrik G. m. b. H. (See Maier, Karl, assignor.)  
 Union Steam Pump Company. (See Smith, Karl D., assignor.)  
 Union Steel Products Company. (See Bitney, Dewey H., assignor.)  
 Union Steel Products Company. (See Hatch, Charles T., assignor.)  
 Union Switch & Signal Company, The. (See Ackerly, Donald G., assignor.)  
 Union Switch & Signal Company, The. (See Agnew, Norman F., assignor.)  
 Union Switch & Signal Company, The. (See Baker, Norval E., assignor.)  
 Union Switch & Signal Company, The. (See Bell, Charles W., assignor.)  
 Union Switch & Signal Company. (See Blake, Eli J., assignor.)  
 Union Switch & Signal Company, The. (See Bossart, Paul N., assignor.)  
 Union Switch & Signal Company, The. (See Brooks, Charles A., assignor.)  
 Union Switch and Signal Company, The. (See Challis, W., and Edmonds, assignors.)  
 Union Switch & Signal Company, The. (See Coleman, John P., assignor.)  
 Union Switch & Signal Company, The. (See Day, Albert V. T., assignor.)  
 Union Switch & Signal Company, The. (See Deschere, Paul R., assignor.)  
 Union Switch & Signal Company, The. (See Dowling, Philip H., assignor.)  
 Union Switch & Signal Company, The. (See Failor, Charles W., assignor.)  
 Union Switch & Signal Company. (See Fereday, Frederick T., assignor.)  
 Union Switch & Signal Company, The. (See Field, Oscar S., assignor.)  
 Union Switch & Signal Company, The. (See Geiger, Paul H., assignor.)  
 Union Switch & Signal Company, The. (See Geiger, P. H., and Brown, assignors.)  
 Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)  
 Union Switch & Signal Company, The. (See Gilson, R. M., and Miller, assignors.)  
 Union Switch & Signal Company, The. (See Grondahl, Lars O., assignor.)  
 Union Switch & Signal Company, The. (See Grondahl, L. O., and Bossart, assignors.)  
 Union Switch & Signal Company, The. (See Harwig, Carl G., assignor.)  
 Union Switch & Signal Company, The. (See Hobson, John S., assignor.)  
 Union Switch & Signal Company, The. (See Holte, Harold O., assignor.)  
 Union Switch & Signal Company, The. (See Howard, Lemuel F., assignor.)  
 Union Switch & Signal Company, The. (See Lay, Charles H., assignor.)  
 Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)  
 Union Switch & Signal Company, The. (See Little, Edwin G., assignor.)  
 Union Switch & Signal Company, The. (See Loomis, Harold S., assignor.)  
 Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)  
 Union Switch & Signal Company, The. (See McCaulley, John E., assignor.)  
 Union Switch & Signal Company, The. (See McWhirter, William C., assignor.)  
 Union Switch & Signal Company, The. (See Nettleton, Lewis L., assignor.)  
 Union Switch & Signal Company, The. (See O'Meara, Thomas J., assignor.)  
 Union Switch & Signal Company, The. (See Peter, Leslie H., assignor.)  
 Union Switch & Signal Company, The. (See Skene, Andrew A., assignor.)  
 Union Switch & Signal Company, The. (See Smith, Percifor F., jr., assignor.)  
 Union Switch & Signal Company, The. (See Smith, William E., assignor.)  
 Union Switch & Signal Company, The. (See Snavelly, Clarence S., assignor.)  
 Union Switch & Signal Company, The. (See Snavelly, C. S., and Wells, assignors.)  
 Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)  
 Union Switch & Signal Company, The. (See Speer, James E., assignor.)  
 Union Switch & Signal Company, The. (See Spray, Lester E., assignor.)  
 Union Switch & Signal Company, The. (See Stoker, Paul P., assignor.)  
 Union Switch & Signal Company, The. (See Stoltz, Carl F., assignor.)  
 Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)  
 Union Switch & Signal Company, The. (See Thorn, C., and McWhirter, assignors.)  
 Union Switch & Signal Company, The. (See Turreff, Stanley J., assignor.)  
 Union Switch & Signal Company, The. (See Vensel, I. W., and Smith, assignors.)  
 Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)  
 Union Switch & Signal Company. (See Warner, Edward A., jr., assignor.)  
 Union Switch & Signal Company, The. (See Wells, Wesley B., assignor.)  
 Union Switch & Signal Company, The. (See Wesson, Eugene G., assignor.)  
 Union Switch & Signal Company. (See Young, Henry S., assignor.)  
 Union Trust Company, The. (See Cone, Mark R., assignor.)  
 Union Trust Company, The. (See Goodrich, Ralph H., assignor.)  
 Union Trust Co., The, et al., executors. (See Laughlin, Alexander, jr.)  
 Unique Spark Plug Cleaner Co. (See Floyd, Ray H., assignor.)  
 Unique Steel Block Company. (See Mathers, William A., assignor.)  
 Unit Steel Company. (See Thies, Urban C., assignor.)  
 United Autographic Register Company. (See Cooke, Allen B., assignor.)  
 United Autographic Register Company. (See Mayer, George A., assignor.)  
 United Autographic Register Company. (See Jensen, L., and Winter, assignors.)  
 United-Carr Fastener Corporation. (See Carr, Fred S., assignor.)  
 United-Carr Fastener Corporation. (See Johnson, Gustav, assignor.)  
 United-Carr Fastener Corporation. (See Pierce, Walter H., assignor.)  
 United-Carr Fastener Corporation. (See Walters, Rollo F., assignor.)  
 United Chicle Company, The. (See Mowrey, Henry M., assignor.)  
 United Chromium Incorporated. (See Hasse, Frank C., assignor.)  
 United Chromium, Incorporated. (See Jensen, Leo D., assignor.)  
 United Cigarette Machine Co. Inc. (See Koerner, Ewald, assignor.)  
 United Electric Company, The. (See Serva, Adam A., assignor.)  
 United Electric Company, The. (See Simpson, Walter S., assignor.)  
 United Electrical Manufacturing Company. (See Vogel, Joseph M., assignor.)  
 United Engineering & Foundry Company. (See Akin, T. R., Young, and Biggert, assignors.)  
 United Engineering & Foundry Company. (See Biggert, Florence C., jr., assignor.)  
 United Engineering & Foundry Company. (See Frank, Isaac W., assignor.)  
 United Engineering & Foundry Company. (See Pennington, Harley D., assignor.)  
 United Filters Corporation. (See Sweetland, Ernest J., assignor.)  
 United Gas Improvement Company, The. (See Brady, Edward J., assignor.)  
 United Glass Bottle Manufacturers, Limited. (See Moorshead, Thomas C., assignor.)  
 United Iron Works, Inc., (See Holzer, Hiram A., assignor.)  
 United Kingdom Optical Company. (See Watson, F. E., and Culver, assignors.)  
 United Metal Box Co. (See Hammer, Samuel, assignor.)  
 United Metal Goods Mfg. Co. (See Castro, Frank L.)  
 United Piano Corporation. (See Williams, J. H., and Vogt, assignors.)  
 United Piano String Company. (See Lo Boves, Michial C., assignor.)  
 United Products Company. (See Glaze, H. L., and Humphrey, assignors.)



- United Products Corporation of America. (See Biddle, Arthur, assignor.)  
 United Radio Corporation. (See Bobrovsky, Igor S., assignor.)  
 United Radio Corporation. (See Harris, Isaac, assignor.)  
 United Reproducers Corporation. (See Andres, Paul G., assignor.)  
 United Reproducers Corporation. (See Bobrovsky, Igor S., assignor.)  
 United Reproducers Corporation. (See Mawley, Jesse B., assignor.)  
 United Reproducers Corporation. (See Hawley, J. B., and Andres, assignors.)  
 United Shoe Machinery Corporation. (See Alley, Frederick L., assignor.)  
 United Shoe Machinery Corporation. (See Andrews, Irving B., assignor.)  
 United Shoe Machinery Corporation. (See Ashton, Ernest, assignor.)  
 United Shoe Machinery Corporation. (See Ballard, Harrie A., assignor.)  
 United Shoe Machinery Corporation. (See Bancroft, William H., assignor.)  
 United Shoe Machinery Corporation. (See Bancroft, W. H., Lund, and Hill, assignors.)  
 United Shoe Machinery Corporation. (See Barclay, W. R., and Ricks, assignors.)  
 United Shoe Machinery Corporation. (See Barwick, Harry A., assignor.)  
 United Shoe Machinery Corporation. (See Bates, A., and Dodd, assignors.)  
 United Shoe Machinery Corporation. (See Baxter, William C., assignor.)  
 United Shoe Machinery Corporation. (See Bazzoni, Lewis, J., assignor.)  
 United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)  
 United Shoe Machinery Corporation. (See Bennion, L. H., and Woodcock, assignors.)  
 United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)  
 United Shoe Machinery Corporation. (See Borgan, James A., assignor.)  
 United Shoe Machinery Corporation. (See Boulton, George, assignor.)  
 United Shoe Machinery Corporation. (See Bowen, Philip A., assignor.)  
 United Shoe Machinery Corporation. (See Brogan, James A., assignor.)  
 United Shoe Machinery Corporation. (See Brogan, Michael F., assignor.)  
 United Shoe Machinery Corporation. (See Cashman, Andrew A., assignor.)  
 United Shoe Machinery Corporation. (See Clarke, T. B., and Bennion, assignors.)  
 United Shoe Machinery Corporation. (See Collette, William E., assignor.)  
 United Shoe Machinery Corporation. (See Connor, Lewis H., assignor.)  
 United Shoe Machinery Corporation. (See Coombes, Warren E., assignor.)  
 United Shoe Machinery Corporation. (See Coombes, W. E., and Lerchen, assignors.)  
 United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)  
 United Shoe Machinery Corporation. (See Courser, Fred M., assignor.)  
 United Shoe Machinery Corporation. (See Coyne, Guy R., assignor.)  
 United Shoe Machinery Corporation. (See Davenport, Herman A., assignor.)  
 United Shoe Machinery Corporation. (See Davenport, Stanley S., assignor.)  
 United Shoe Machinery Corporation. (See Doggu, George, assignor.)  
 United Shoe Machinery Corporation. (See Duane, William M., assignor.)  
 United Shoe Machinery Corporation. (See Dunn, Edward A., assignor.)  
 United Shoe Machinery Corporation. (See Duplessis, René E., assignor.)  
 United Shoe Machinery Corporation. (See Durán, Jean, assignor.)  
 United Shoe Machinery Corporation. (See Elliott, Harry D., assignor.)  
 United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)  
 United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)  
 United Shoe Machinery Corporation. (See Ericson, Fritz A., assignor.)  
 United Shoe Machinery Corporation. (See Ewell, Frank E., assignor.)  
 United Shoe Machinery Corporation. (See Fausse, J., and Duplessis, assignors.)  
 United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)  
 United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)  
 United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)  
 United Shoe Machinery Corporation. (See Glidden, Harvey L., assignor.)  
 United Shoe Machinery Corporation. (See Goddu, George, assignor.)  
 United Shoe Machinery Corporation. (See Goddu, G., and Mackenzie, assignors.)  
 United Shoe Machinery Corporation. (See Gookin, Sylvester L., assignor.)  
 United Shoe Machinery Corporation. (See Gorman, Henry B., assignor.)  
 United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)  
 United Shoe Machinery Corporation. (See Gouldbourn, J., and Headley, assignors.)  
 United Shoe Machinery Corporation. (See Gouldbourn, J., and Ricks, assignors.)  
 United Shoe Machinery Corporation. (See Gouldbourn, J., and Roberts, assignors.)  
 United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)  
 United Shoe Machinery Corporation. (See Heys, J. J., and Braden, assignors.)  
 United Shoe Machinery Corporation. (See Hill, Lawson T., assignor.)  
 United Shoe Machinery Corporation. (See Hipperson, V. E., and Gouldbourn, assignors.)  
 United Shoe Machinery Corporation. (See Holmgren, Eric A., assignor.)  
 United Shoe Machinery Corporation. (See Hughes, William, assignor.)  
 United Shoe Machinery Corporation. (See Hume, Fred, assignor.)  
 United Shoe Machinery Corporation. (See Hunt, C., and Bertrand, assignors.)  
 United Shoe Machinery Corporation. (See Jerram, A. E., and Keall, assignors.)  
 United Shoe Machinery Corporation. (See Johnson, Lawrence E., assignor.)  
 United Shoe Machinery Corporation. (See Jonas, Jacob F., assignor.)  
 United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)  
 United Shoe Machinery Corporation. (See Jorgensen, J. C., and Seely, assignors.)  
 United Shoe Machinery Corporation. (See Joyce, Richard F., assignor.)  
 United Shoe Machinery Corporation. (See Julian, Gideon, assignor.)  
 United Shoe Machinery Corporation. (See Keall, Frank B., assignor.)  
 United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)  
 United Shoe Machinery Corporation. (See Knowlton, Norwood H., assignor.)  
 United Shoe Machinery Corporation. (See La Chapelle, Fred N., assignor.)  
 United Shoe Machinery Corporation. (See Lambert, Leo J., assignor.)  
 United Shoe Machinery Corporation. (See Lancaster, John T., assignor.)  
 United Shoe Machinery Corporation. (See Langlois, A. J., and Mansfield, assignors.)  
 United Shoe Machinery Corporation. (See Lawson, Robert H., assignor.)  
 United Shoe Machinery Corporation. (See Leslie, Bernard S., assignor.)  
 United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)  
 United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)  
 United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)  
 United Shoe Machinery Corporation. (See Matthews, A. W., and Williams, assignors.)  
 United Shoe Machinery Corporation. (See May, John W., assignor.)  
 United Shoe Machinery Corporation. (See Mayo, Benjamin F., assignor.)  
 United Shoe Machinery Corporation. (See Megathlin, Ralph S., assignor.)  
 United Shoe Machinery Corporation. (See Merritt, Matthew M., assignor.)  
 United Shoe Machinery Corporation. (See Meyer, William C., assignor.)  
 United Shoe Machinery Corporation. (See Molyneux, George E., assignor.)  
 United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)  
 United Shoe Machinery Corporation. (See Morrill, C. H., and Cushman, assignors.)  
 United Shoe Machinery Corporation. (See Murphy, Francis P., assignor.)  
 United Shoe Machinery Corporation. (See Newmann, Herman, assignor.)  
 United Shoe Machinery Corporation. (See Newton, Charles W., assignor.)  
 United Shoe Machinery Corporation. (See Nowack, Julius R., assignor.)  
 United Shoe Machinery Corporation. (See Nutt, William H., assignor.)  
 United Shoe Machinery Corporation. (See O'Gorman, Gaynor, assignor.)  
 United Shoe Machinery Corporation. (See O'Keefe, Thomas J., assignor.)  
 United Shoe Machinery Corporation. (See Osiek, Edward A., assignor.)  
 United Shoe Machinery Corporation. (See Perry, Frederick H., assignor.)



- United Shoe Machinery Corporation. (See Phillips, Frederick W., assignor.)  
 United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)  
 United Shoe Machinery Corporation. (See Pope, Joseph H., assignors.)  
 United Shoe Machinery Corporation. (See Preo, J. L., and Henne, assignors.)  
 United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)  
 United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)  
 United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)  
 United Shoe Machinery Corporation. (See Reed, James H., assignor.)  
 United Shoe Machinery Corporation. (See Richardson, John H., assignor.)  
 United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)  
 United Shoe Machinery Corporation. (See Ricks, F., and Richards, assignors.)  
 United Shoe Machinery Corporation. (See Ricks, F., and Wilson, assignors.)  
 United Shoe Machinery Corporation. (See Ricks, F., and Woodcock, assignors.)  
 United Shoe Machinery Corporation. (See Ridderstrom, Andrew R., assignor.)  
 United Shoe Machinery Corporation. (See Rightmire, Floyd E., assignor.)  
 United Shoe Machinery Corporation. (See Roberts, Clifford, assignor.)  
 United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)  
 United Shoe Machinery Corporation. (See Roline, C. G., and Norre, assignors.)  
 United Shoe Machinery Corporation. (See Rosenthal, Johann, assignor.)  
 United Shoe Machinery Corporation. (See Sabin, Ernest E., assignor.)  
 United Shoe Machinery Corporation. (See Sampson, George W., assignor.)  
 United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)  
 United Shoe Machinery Corporation. (See Sherman, Fred S., assignor.)  
 United Shoe Machinery Corporation. (See Shliekr, Joseph, assignor.)  
 United Shoe Machinery Corporation. (See Silvester, R. H., and Bancroft, assignors.)  
 United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)  
 United Shoe Machinery Corporation. (See Slater, Joseph, assignor.)  
 United Shoe Machinery Corporation. (See Spence, Edward M., assignor.)  
 United Shoe Machinery Corporation. (See Standish, John F., assignor.)  
 United Shoe Machinery Corporation. (See Stephenson, Richard O., assignor.)  
 United Shoe Machinery Corporation. (See Stewart, William C., assignor.)  
 United Shoe Machinery Corporation. (See Stewart, W. C., and Hood, assignors.)  
 United Shoe Machinery Corporation. (See Tatro, Louis D., assignor.)  
 United Shoe Machinery Corporation. (See Tibbetts, C. B., and Sawyer, assignors.)  
 United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)  
 United Shoe Machinery Corporation. (See Topham, L. E., and Morrill, assignors.)  
 United Shoe Machinery Corporation. (See Toothaker, Fred E., assignor.)  
 United Shoe Machinery Corporation. (See Turner, Cameron, assignor.)  
 United Shoe Machinery Corporation. (See Warren, George E., assignor.)  
 United Shoe Machinery Corporation. (See Westphal, Edward H., assignor.)  
 United Shoe Machinery Corporation. (See Willhauck, Augustus D., assignor.)  
 United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)  
 United Shoe Machinery Corporation. (See Winkley, E. E., and Davenport, assignors.)  
 United Shoe Machinery Corporation. (See Woodcock, Reginald B., assignor.)  
 United Shoe Machinery Corporation. (See Yeaton, S. O., and White, assignors.)  
 United States Aluminum Company, The. (See Bungay, George W., assignor.)  
 U. S. Bedding Company. (See Brown, Jefferson F., assignor.)  
 U. S. Bobbin & Shuttle Company. (See Bowes, James, assignor.)  
 U. S. Bobbin & Shuttle Co. (See Davol, Harry A., assignor.)  
 United States Cabinet Bed Co. (See Martin, Joseph, assignor.)  
 United States Cast Iron Pipe & Foundry Company. (See Daniel, Robert E., assignor.)  
 United States Cast Iron Pipe and Foundry Company. (See Ladd, James B., assignor.)  
 United States Cast Iron Pipe & Foundry Company. (See Uhlig, John H., assignor.)  
 United States Chain & Forging Company. (See Bremer, Frederick G., assignor.)  
 United States Chain & Forging Company. (See Hardy, William G., assignor.)  
 United States Chain & Forging Company. (See McGowen, William R., assignor.)  
 United States Colloid Mill Corporation. (See Eppenbach, William, assignor.)  
 U. S. E. M. Company. (See Lovejoy, Dimmitt R., assignor.)  
 United States Electrical Manufacturing Company. (See Johnson, Carl E., assignor.)  
 United States Envelope Company. (See Swett, Charles E., assignor.)  
 United States Foil Co. (See Emrich, Merritt L., assignor.)  
 United States Foil Company. (See Reynolds, Richard S., assignor.)  
 U. S. Galvanizing & Plating Equipment Corporation. (See Potthoff, Kurt T., assignor.)  
 United States Gauge Company. (See Bayha, W. G., Hellerman, and Schall, assignors.)  
 United States Glass Company. (See Keil, Charles R., assignor.)  
 United States Glass Company. (See Slick, Edwin E., assignor.)  
 United States Gypsum Company. (See Armstrong, Morgan K., assignor.)  
 United States Gypsum Company. (See Avery, S. L., jr., and Basquin, assignors.)  
 United States Gypsum Company. (See Baldof, Bruno E., assignor.)  
 United States Gypsum Company. (See Birdsey, Charles R., assignor.)  
 United States Gypsum Co. (See Ericson, Richard, assignor.)  
 United States Gypsum Co. (See Green, Ernest, assignor.)  
 United States Gypsum Company. (See Lovett, William E., assignor.)  
 United States Gypsum Company. (See Reel, Herbert W., assignor.)  
 United States Gypsum Company. (See Roos, Carlisle K., assignor.)  
 United States Gypsum Company. (See Utzman, Clarence W., assignor.)  
 United States Gypsum Company. (See Walper, Curry O., assignor.)  
 U. S. Hame Company. (See Glaser, John M., assignor.)  
 United States Hat Machinery Corporation. (See Genest, Homer A., assignor.)  
 United States Hoffman Machinery Corporation, et al. (See Brockett, Bluford W., assignor.)  
 United States Hoffman Machinery Corporation. (See Ledbetter, James C., assignor.)  
 United States Hoffman Machinery Corporation. (See Orcutt, Leon C., assignor.)  
 United States Hoffman Machinery Corporation. (See Page, Herbert E., assignor.)  
 United States Hoffman Machinery Corporation. (See Zeidler, William A., assignor.)  
 U. S. Industrial Alcohol Co. (See Bohnhardt, Charles F. H., assignor.)  
 U. S. Industrial Alcohol Co. (See Clapp, Elwood I., assignor.)  
 U. S. Industrial Alcohol Co. (See Ricard, Eloï, assignor.)  
 United States Industries, Inc. (See Johnson, Carl E., assignor.)  
 U. S. Manufacturing Corporation. (See Bennett, John L., assignor.)  
 United States Metal Products Co. (See Dreusike, Otto B., assignor.)  
 United States Metal Products Co. (See Dreusike, William, assignor.)  
 United States Metallic Packing Company, The. (See Light, R. A., and Price, assignors.)  
 United States Metals Refining Company. (See Ogden, D. L., and Valentine, assignors.)  
 United States Nut & Washer Company. (See Golding, John F., assignor.)  
 United States Ordnance Company. (See Smith, George L., assignor.)  
 United States Playing Card Company, The. (See Albert, Clifford E., assignor.)  
 United States Printing & Lithograph Company, The. (See Burgess, Joseph E., assignor.)  
 United States Process Corporation. (See Heuser, Herman, assignor.)  
 U. S. Ring Traveler Company. (See Gilligan, George H., assignor.)  
 U. S. Slicing Machine Company. (See Rienks, William, assignor.)  
 U. S. Slicing Machine Company. (See Sensow, Anton C., assignor.)  
 U. S. Slicing Machine Company. (See Thomas, Henry, assignor.)  
 U. S. Slicing Machine Company. (See van Berkel, Cornelis F. M., assignor.)  
 U. S. Slicing Machine Company. (See van Weenen, Franciscus L., assignor.)  
 U. S. Slicing Machine Company. (See Velthoen, Johannes S., assignor.)



- U. S. Smelting Furnace Company. (See Jones, Arthur, assignor.)
- United States Smelting, Refining & Mining Company. (See Russey, Merrell W., assignor.)
- United States Spring Company. (See Rauhen, J. B., and Strong, assignors.)
- United States Tent & Awning Company. (See Dietz, Charles H., assignor.)
- United States Tent & Awning Company. (See Leffert, Charles B., assignor.)
- United Steel & Wire Company. (See Macomber, L. W., and Jarvis, assignors.)
- United Verde Extension Mining Company. (See Prince, George W., assignor.)
- Universal Art Stitch Machine Limited. (See Bingham, Joseph, assignor.)
- Universal Button Fastening and Button Company. (See Clark, John M., assignor.)
- Universal Button Fastening & Button Company. (See Ford, Ira D., assignor.)
- Universal Dental Company. (See Charen, Myer, assignor.)
- Universal Device Company, The. (See Farrell, Fred H., assignor.)
- Universal Draft Gear Attachment Co. (See Camp, Percy B., assignor.)
- Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
- Universal Draft Gear Attachment Co. (See Nash, C. J., and Wilson, assignors.)
- Universal Draft Gear Attachment Co. (See Tucker, Herbert E., assignor.)
- Universal Engineering Company. (See Fagergren, William, assignor.)
- Universal Engineering Company. (See Zublin, John A., assignor.)
- Universal Engineering Corporation. (See Robson, John, assignor.)
- Universal Fixture Corporation. (See Goldberg, Samuel, assignor.)
- Universal Fringe Works, Inc. (See Gornstein, Morris, assignor.)
- Universal Gas Electric Company. (See Kemble, Thomas S., assignor.)
- Universal Gear Shift Corporation. (See Goss, Harry T., assignor.)
- Universal Gypsum & Lime Co. (See Hite, Charles E., assignor.)
- Universal Gypsum & Lime Co. (See Turner, John J., assignor.)
- Universal Labels Limited. (See Simpson, Arthur A., assignor.)
- Universal Lamp Company. (See Sherman, Jacob S., assignor.)
- Universal Leather Goods Company. (See Fingerman, Ira, assignor.)
- Universal Match Corporation, The. (See Ferretti, Julius J., assignor.)
- Universal Match Corporation. (See Neklutin, Constantine N., assignor.)
- Universal Metal Chain Co. Inc. (See Laupot, Louis, assignor.)
- Universal Oil Products Company, The. (See David, Aubrey D., assignor.)
- Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)
- Universal Oil Products Company. (See Duncan, Paul J., assignor.)
- Universal Oil Products Company. (See Egloff, Gustav, assignor.)
- Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)
- Universal Oil Products Company. (See Egloff, G., and Morrell, assignors.)
- Universal Oil Products Company. (See Halloran, Ralph A., assignor.)
- Universal Oil Products Company. (See Howard, William R., assignor.)
- Universal Oil Products Company. (See Huff, Lyman C., assignor.)
- Universal Oil Products Company. (See Huff, L. C., and Bogardus, assignors.)
- Universal Oil Products Company. (See Mardick, John R., assignor.)
- Universal Oil Products Company. (See Morrell, Jacques C., assignor.)
- Universal Oil Products Company, The. (See Morrell, J. C., and Benner, assignors.)
- Universal Oil Products Company. (See Pollock, Robert T., assignor.)
- Universal Oil Products Company. (See Pratt, Clifton J., assignor.)
- Universal Oil Products Company. (See Sims, Willis F., assignor.)
- Universal Oil Seal Company. (See Nelson, Victor E., assignor.)
- Universal Optical Corporation. (See Beattey, Earle J. R., assignor.)
- Universal Optical Corporation. (See Beattey, E. J. R., and Nelson, assignors.)
- Universal Optical Corporation. (See Nelson, John N., assignor.)
- Universal Optical Corporation. (See Searles, Wayne S., assignor.)
- Universal Oven Company. (See Elliott, Irwin, assignor.)
- Universal Permanent Wave Machine Company. (See Rosenwald, Charles, assignor.)
- Universal Power Shovel Company. (See Bradley, Merrill I., assignor.)
- Universal Products Co., The. (See Warner, Archibald A., assignor.)
- Universal Products Corporation. (See Gibney, James J., assignor.)
- Universal Rotary Bit Company, The. (See Seifert, William V., assignor.)
- Universal Steamer Corporation. (See Bloom, N., and Neff, assignors.)
- Universal Telescope Co. Inc. (See Scott-Huntington, Humbert T., assignor.)
- Universal Tiller Corporation, The. (See Shields, Frank S., assignor.)
- Universal Veneer Products Company. (See Pointer, Henry V., assignor.)
- Universal Winding Company. (See Beckman, Gustaf S., assignor.)
- Universal Winding Company. (See Jones, C. H., and Swanson, assignors.)
- Universal Winding Company. (See Lewis, Everett C., assignor.)
- Universal Winding Company. (See Parks, Edward F., assignor.)
- Universal Window Company. (See Wiley, Esmond F., assignor.)
- Universell Cigarettemaschinen-Fabrik J. C. Müller & Co. (See Hohn, Max P. E., assignor.)
- "Universelle" Cigarettemaschinen-Fabrik J. C. Müller & Co. (See Buttner, Robert O. K., assignor.)
- "Universelle" Cigarettemaschinen-Fabrik J. C. Müller & Co. (See Graupner, Paul L., assignor.)
- "Universelle" Cigarettemaschinen-Fabrik J. C. Müller & Co. (See Röber, Constantin F., assignor.)
- "Universelle" Cigarettemaschinen-Fabrik J. C. Müller & Co. (See Schmiedel, Alfred J., assignor.)
- Universelle Cigarettemaschinenfabrik J. C. Müller & Co. (See Wehnert, August C., assignor.)
- University of Minnesota. (See Harvey, Rodney B., assignor.)
- Universum-Film-Aktiengesellschaft. (See Kucharski, H., and Wieske, assignors.)
- Unke, Herman A., Cleveland, Ohio. Forming beaded articles. 1,724,117; Aug. 13.
- Unkefer, George R., Chicago, Ill. Garment hanger. 1,722,609; July 30.
- Unkies, Edward H., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Telescope mounting. 1,724,118; Aug. 13.
- Unland, Louis A., Beardstown, Ills. Grave box. 1,699,724; Jan. 22.
- Unterholzner, Josef, Munich, Germany, assignor, by mesne assignments, to W. Fox, Woodburgh, N. Y. Condenser telephone. Re17,349; July 2.
- Unwin, Kenneth J. (See Chevrette, A. J., and Unwin.)
- Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling fork for looms. 1,737,690; Dec. 3.
- Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slip weft detector. 1,739,188; Dec. 10.
- Unwin, Kenneth J., Shrewsbury, and W. H. Wakefield, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Head motion for looms. 1,739,189; Dec. 10.
- Unwin, Kenneth J., and W. H. Wakefield, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Device to prevent repeated indication of weft exhaustion. 1,734,063; Nov. 5.
- Unwin, Kenneth J., and W. H. Wakefield, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Multicolor-weft-replenishing loom. 1,739,190; Dec. 10.
- Updegraff, William B., Elizabeth, N. J. Fluid-pressure press. 1,721,421; July 16.
- Urdike, Rudolph J., Strasburg, Va. Railway tie. 1,712,532; May 14.
- Uperen, Inglis M. (See Smith, Hinsdale, assignor.)
- Upp, Harry, Toledo, Ohio. Headlight lens. 1,726,460; Aug. 27.
- Upp, Roscoe W., Chicago, Ill. Score card. 1,716,016; June 4.
- Upshaw, Murray L. (See McEntyre, Kent K., assignor.)
- Upson, Charles A., Lockport, assignor to The Upson Company, Rochester, N. Y. Machine for making sheets and boards. 1,707,375; Apr. 2.
- Upson, Charles A., assignor to The Upson Company, Lockport, N. Y. Machine for making insulating bats. 1,713,309; May 14.
- Upson Company, The. (See Harney, Francis W., assignor.)
- Upson Company, The. (See Stevens, John A., assignor.)
- Upson Company, The. (See Upson, Charles A., assignor.)
- Upson, Ralph H., Birmingham, assignor to Aircraft Development Corporation, Detroit, Mich. Dirigible. 1,706,830; Mar. 26.
- Upson, Ralph H., assignor to Aircraft Development Corporation, Detroit, Mich. Mooring means for airships. 1,724,890; Aug. 13.
- Upton, Clifford D., assignor to The Wood Shovel and Tool Company, Piqua, Ohio. Reinforced handle. 1,725,605; Aug. 20.
- Urban Corporation. (See Urbain, Edouard, assignor.)



- Urbain, Edouard, Paris, France, assignor to Urbain Corporation. Hydrating phosphoric anhydride. 1,698,484; Jan. 8.
- Urbain, Edouard, Paris, France, assignor to Urbain Corporation. Decolorizing carbon. 1,700,342; Jan. 29.
- Urbain, Edouard, Paris, France. Decolorizing carbon. 1,709,503; Apr. 16.
- Urbain, Edouard, Paris, France, assignor to Urbain Corporation. Manufacture of active carbons. 1,735,096; Nov. 12.
- Urban, Emil, Comstock, Nebr. Double garden hoe. 1,699,933; Jan. 22.
- Urbanek, John A., assignor of one-half to A. Leightman, Detroit, Mich. Newspaper-vending machine. 1,735,819; Nov. 12.
- Urbaniak, Stanley F. (See Kliem, R., and Urbaniak.)
- Urbinati, Mario, Rome, Italy. Collector for electric engines with rotating brushes and stationary copper segments. 1,709,381; Apr. 16.
- Urbish, Aloysious J. (See Aron, William P., assignor.)
- Urch, Andrew C., Seattle, Wash. Auxiliary circulating device. 1,715,876; June 4.
- Ure, William T. (See Swindler, Robert M., assignor.)
- Ureles, Nathan, New York, N. Y. Lighting fixture. 1,725,028; Aug. 20.
- Ureles, Nathan L., New York, N. Y. Lighting fixture. 1,741,171; Dec. 31.
- Uren, Lester C., Berkeley, Calif., assignor to Standard Oil Development Company. Flooding method for recovering oil. 1,735,481; Nov. 12.
- Urfer, Charles, Geneva, Switzerland, assignor to Société d'Etudes Minières & Industrielles, Paris, France. Manufacture of ammonia. 1,737,953; Dec. 3.
- Urquhart, Ernest C., Oakland, Calif. Collapsible tube. 1,714,741; May 28.
- Urquhart, Jesse T., near Zuni, Va. Fertilizer distributor. 1,738,085; Dec. 3.
- Urr, Gabor, Phoenixville, Pa. Match box. 1,702,183; Feb. 12.
- Urschel, Bertis H., assignor to Urschel Engineering Company, Bowling Green, Ohio. Lubricant seal for universal boots. 1,714,742; May 28.
- Urschel Engineering Company. (See Urschel, Bertis H., assignor.)
- Urschel, William E., Valparaiso, Ind. Bean harvester. 1,727,020; Sept. 3.
- Ury, Milton, New York, N. Y. Paste-dispensing apparatus. 1,698,834; Jan. 15.
- Usami, Takeo, Brooklyn, N. Y. Ball-rolling game. 1,715,581; June 4.
- Usher, John J., assignor to St. Helens Iron & Marine Works, St. Helens, Oreg. Cable clamp. 1,708,979; Apr. 16.
- Ustonson, Cyril B., Clerkenwell, London, England. Making bifocal lenses. 1,739,743; Dec. 17.
- Utah Metals Flux Company. (See Fisher, Ernest S., assignor.)
- Utah Radio Products Company. (See de Forest, Lee, assignor.)
- Utah Radio Products Company. (See King, Joseph M. S., assignor.)
- Utah Radio Products Company, The. (See Osborne, John, assignor.)
- Utah Radio Products Company. (See Pack, Wehrli D., assignor.)
- Utah Radio Products Company. (See Pack, W. D., and King, assignors.)
- Utgoft, Lydia. (See Garankin, Theodore P., assignor.)
- Uth, Gustave G., and H. Feurstein, New York, N. Y. Tie fastener. 1,730,697; Oct. 8.
- Utica Duxbak Corporation. (See Conover, W. E., and Bush, assignors.)
- Utica Products, Inc. (See Hauser, George D., assignor.)
- Utica Towel Cabinet Corp. (See Darman, Joseph, assignor.)
- Utility Container Corporation. (See Morrison, John H., assignor.)
- Utility Manufacturing Co. (See Hutchens, Edward, assignor.)
- Utility Manufacturing Co. (See Jennejohn, John C., assignor.)
- Utility Strate Manufacturing Company. (See Jauch, Robert J., assignor.)
- Utle, Albert A., assignor to Standard Parts Corporation, Oak Park, Ill. Striker plate for door latches. 1,741,258; Dec. 31.
- Uttz, William A., sr., Cleveland, Ohio. Casing for a tape-sealing machine. Des. 80,151; Dec. 17.
- Uttz, William A., sr., Cleveland, Ohio. Display desk appliance machine casing or similar article. Des. 80,250; Dec. 31.
- Uttz, William A., sr., Lakewood, Ohio. Brush. 1,726,089; Aug. 27.
- Uttz, William A., sr., St. Louis, Mo., assignor to Perfection Package Sealer Company, Inc., Dallas, Tex. Moistener for gummed-tape machines. 1,716,805; June 11.
- Uttz, William A., sr., St. Louis, Mo., assignor to Perfection Package Sealer Company, Inc., Dallas, Tex. Gummed-tape-serving machine. 1,717,747; June 18.
- Uttz, William A., sr., Fort Worth, Tex., assignor, by mesne assignments, to Perfection Package Sealer Company. Moistening device. 1,730,795; Oct. 8.
- Uttz, William A., sr., Fort Worth, Tex., assignor, by mesne assignments, to Perfection Package Sealer Company. Gummed-tape-dispensing machine. 1,731,185; Oct. 8.
- Utz, Albert J., Pittsburg, Kans. Lamp. 1,721,422; July 16.
- Utz, John G., assignor of one-third to R. C. Hupp, and one-third to J. K. Harness, Detroit, Mich. Braking apparatus. 1,721,890; July 23.
- Utz, John G., Detroit, Mich., and G. Morgan, assignors to The Warford Corporation, New York, N. Y. Driving mechanism for automobiles. 1,708,457; Apr. 9.
- Utzman, Clarence W., Wilmette, Ill. Fountain-pen holder. 1,730,487; Oct. 8.
- Utzman, Clarence W., Wilmette, Ill., assignor, by mesne assignments, to United States Gypsum Company. Plaster board. 1,703,183; Feb. 26.
- Utzman, Clarence W., assignor to United States Gypsum Company, Chicago, Ill. Plaster wall-board shipping package or holder. 1,724,740; Aug. 13.
- Utzman, Clarence W., Buffalo, N. Y., assignor, by mesne assignments, to United States Gypsum Company. Plaster board and making same. 1,731,116; Oct. 8.
- Uwins, Cyril F., Clifton, Bristol, assignor to The Bristol Aeroplane Company Limited, Bristol, England. Control gear for aircraft. 1,702,184; Feb. 12.
- V. Körösy, Paul, Budapest, Hungary. Apparatus for the filling of granular and powdered materials. 1,713,877; May 21.
- V. V. Fittings Company. (See Burns, James F., assignor.)
- V-W Ventilator Co. (See Hoffman, Rudolph, assignor.)
- V. Wysocki, Bronislaw, Berlin-Lichterfelde, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electrical condenser. 1,736,811; Nov. 26.
- Vachon, William P., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for making endless belts. 1,715,964; June 4.
- Vacuum Casting Company, The. (See Kadow, August, assignor.)
- Vacuum Dehydration Corporation of America. (See Boykin, Robert O., assignor.)
- Vacuum Oil Company. (See Hooper, C. L., and Sutherland, assignors.)
- Vacuum Oil Company. (See Kemball, W. F., and Rugg, assignors.)
- Vacuum Products (N. Z.) Limited. (See Robertson, David, assignor.)
- Vacuum-Schmelze Gesellschaft mit beschränkter Haftung. (See Rohn, Wilhelm, assignor.)
- Vacuum Seal Company. (See Staunton, Gray, assignor.)
- Vaders, Eugen, Hedderheim, near Frankfurt-on-the-Main, Germany. Copper-aluminum alloy. 1,718,502; June 25.
- Vadnais, Alexander H., assignor to Double A Alarm Company, Inc., Oshkosh, Wis. Spark plug. 1,730,395; Oct. 8.
- Vago-Paldy G. m. b. H. (See von Vágó, P., and Páldy, assignors.)
- Vahouny, Sarkis, New York, N. Y. Carrying device. 1,740,211; Dec. 17.
- Vail, N. Russell. (See Boykin, Robert O., assignor.)
- Vail, Ralph A., Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation. Crank-case ventilator. 1,706,424; Mar. 26.
- Vaisey, Harold C., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 77,378; Jan. 1.
- Vaisey, Harold C., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 77,926; Mar. 5.
- Vaisey, Harold C., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 78,369; Apr. 23.
- Vaisey, Harold C., assignor to Hickok Manufacturing Company, Rochester, N. Y. Suspender-end top link. Des. 79,914; Nov. 12.
- Valelly, William J., Bonham, Tex. Removing grass from railroad tracks. 1,709,639; Apr. 16.
- Valentine, Charles W., assignor to The Bagley and Sewall Company, Watertown, N. Y. Expansion joint. 1,702,066; Feb. 12.
- Valentine, Charles W., assignor to The Bagley and Sewall Company, Watertown, N. Y. Winding machine. 1,739,931; Dec. 17.
- Valentine, Charles W., and A. F. Helin, assignors to The Bagley and Sewall Company, Watertown, N. Y. Paper-making machine. 1,713,988; May 21.
- Valentine-Clark Co., The. (See Gram, Clarence N., assignor.)
- Valentine & Company. (See Connolly, Frank P., assignor.)
- Valentine, Harry W., Oakland, Calif. Roller screen. 1,712,594; May 14.
- Valentine, Harry W., Oakland, Calif. Reversible window bracket. 1,715,965; June 4.
- Valentine, Irving R., Erie, Pa., assignor to General Electric Company. Treatment of malleable castings. 1,734,928; Nov. 5.
- Valentine, Kathryn L., and G. Ramsey, Jersey City, N. J. Overshoe. 1,704,688; Mar. 5.
- Valentine, Percy W. (See Papini, Anthony, assignor.)
- Valentine, Percy W., Natick, Mass. Ribbed inner sole. 1,737,986; Dec. 3.
- Valentine, Roger E. (See Ogden, D. L., and Valentine.)
- Valentine, Rollo H., Springfield, assignor of one-fourth to D. C. Fleming, Peoria, Ill. Three-circuit-tuner bracket. 1,698,177; Jan. 8.
- Valentine, William M., Rochester, N. Y. Telephone support. 1,737,209; Nov. 26.



- Valet, Earnest C. H., assignor to Celulosa Hemmer Valet, Sociedad Anonima, Mexico, Mexico. Extracting the pure cellulose from the bagasse of sugar cane. Re17,422; Sept. 3.
- Valiga, John A., Phillips, Wis. Fishhook. 1,730,957; Oct. 8.
- Valine, Manuel P., Hamilton City, Calif. Trailer hitch and tire carrier. 1,741,085; Dec. 24.
- Valiquette, William L., assignor to The Harris-Seybold-Potter Company, Dayton, Ohio. Gauge for paper-cutting machines. 1,737,528; Nov. 26.
- Vallas, Lionel, Chicago, Ill. Flashing for walls and chimneys. 1,740,753; Dec. 24.
- Vallé, John R., New York, N. Y. Safety fender for motor cars. 1,740,526; Dec. 24.
- Vallen, Earl J., Akron, Ohio. Control mechanism. 1,719,574; July 2.
- Valletta, Vittorio, assignor to Fiat Societa Anonima, Turin, Italy. Change-speed gear. 1,719,032; July 2.
- Valley Electric Company. (See Bullivant, Francis J., assignor.)
- Valley Electric Company. (See Laughter, Victor H., assignor.)
- Valley Iron Works Company. (See Peterson, E. A., and Everson, assignors.)
- Valley Mould and Iron Corporation. (See Perry, John E., assignor.)
- Valley Mould and Iron Corporation. (See Ramage, William H., assignor.)
- Valley Rubber Company. (See Mulholland, Thomas, assignor.)
- Vallier, Elijah G., Wauwatosa, assignor to Western States Envelope Co., Milwaukee, Wis. Gumming attachment for envelope machines. 1,741,211; Dec. 31.
- Valliquette, Alfred D. (See Hileman, Ernest J., assignor.)
- Vallon, Cecil N., Cobham, England. Safety razor. 1,741,891; Dec. 31.
- Vallone, Charles, assignor to Barcelo Manufacturing Company, Buffalo, N. Y. Wrench. 1,729,640; Oct. 1.
- Valmore, William S., Mansfield, Ohio. Thermostatic radiator trap. 1,704,848; Mar. 12.
- Valoppi, Eugene. (See Neroni, S., and Valoppi.)
- Valpiani, Pasquino, Wilark, Oreg. Rail bender. 1,701,711; Feb. 12.
- Vanace, William P., Schenectady, N. Y. Oyster and clam opener. 1,737,626; Dec. 3.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Regenerative heating structure. 1,704,229; Mar. 5.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Regenerative heating apparatus. 1,704,685; Mar. 5.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Regenerative heating furnace. 1,704,686; Mar. 5.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Regenerative heating structure. 1,704,687; Mar. 5.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,705,841; Mar. 19.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,707,419; Apr. 2.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke oven. 1,714,933; May 28.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke oven. 1,714,934; May 28.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Vertical retort oven. 1,738,743; Dec. 10.
- Van Ackeren, Joseph, Pittsburgh, and J. I. Thompson, Ben Avon, Pa., assignors to The Koppers Company. Leveler bar for coke ovens. 1,720,805; July 16.
- Vanadium Alloy Steel Company. (See Gill, James P., assignor.)
- Vanadium Alloys Steel Company. (See McKenna, Philip M., assignor.)
- Vanadium Corporation of America. (See Saklatwalla, Byramji D., assignor.)
- Van Agthoven William, et al. (See Schulte, John O., assignor.)
- Van Aken, Christopher J., West Orange, N. J. Lawn sprinkler. 1,719,790; July 2.
- Van Allen, George L. (See Maulen, F., Myerson, and Van Allen.)
- Van Alstyne, Durlin N. and J., Fulton, N. Y. Paper container. 1,706,007; Mar. 19.
- Van Alstyne, James. (See Van Alstyne, Durlin N. and J.)
- Van Arkel, Anton E. (See De Boer, J. H., and van Arkel.)
- Van Arkel, Anton E., and J. H. de Boer, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Dissolving a mixture of hafnium and zirconium salts and for separating hafnium and zirconium. 1,718,616; June 25.
- Van Arsdel, Wallace B. (See Richter, G. A., and Van Arsdel.)
- Van Arsdel, Wallace B., assignor to Brown Company, Berlin, N. H. Waterproofing composition of matter. 1,714,702; May 28.
- Van Arsdel, Wallace B., assignor to Brown Company, Berlin, N. H. Apparatus for regulating gas flow. 1,727,418; Sept. 10.
- Van Arsdel, Wallace B., Berlin, and H. P. Vannah, Gosham, assignors to Brown Company, Berlin, N. H. Purification of crude carbon tetrachloride. 1,697,483; Jan. 1.
- Van Auken, Charles M., Pontiac, Mich., assignor, by mesne assignments, to Mechanical Devices Corporation of America, Buffalo, N. Y. Vehicle seat. 1,724,535; Aug. 13.
- Van Auken, Marwood D., New York, N. Y. Rifle target. 1,723,826; Aug. 6.
- Van Bergen, Charles W. A., The Hague, Netherlands, assignor to Simplex Refining Company, San Francisco, Calif. Measuring device. 1,700,659; Jan. 29.
- Van Berkel, Cornelius F. M., Wassenaar, assignor to Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen, Rotterdam, Netherlands. Weighing scale. 1,710,125; Apr. 23.
- Van Berkel, Cornelis F. M., Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Feed mechanism for slicing machines. 1,723,669; Aug. 6.
- Van Berkel, Cornelis F. M., Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine for slicing meat or the like. 1,739,697; Dec. 17.
- Van Berkel, Cornelis F. M., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,716,158; June 4.
- Van Berkel, Johannes C., Copenhagen, Denmark, assignor, Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen, Rotterdam, Netherlands. Slicing machine. 1,713,936; May 21.
- Van Blarcom, Francis. (See Stevenson, Thomas K., assignor.)
- Van Brunt, Charles, Schenectady, N. Y., assignor to General Electric Company. Heating device. 1,703,643; Feb. 26.
- Van Brunt, Charles, Schenectady, N. Y., assignor to General Electric Company. Clarifying oil. 1,703,645; Feb. 26.
- Van Brunt, Charles, Schenectady, N. Y., assignor to General Electric Company. Oil clarification. 1,703,646; Feb. 26.
- Van Brunt, Charles G., Schenectady, N. Y., assignor to General Electric Company. Method and apparatus for clarifying oil. 1,703,647; Feb. 26.
- Van Brunt, Charles, Schenectady, N. Y., assignor to General Electric Company. Oil-reclaiming process. 1,713,200; May 14.
- Van Brunt, Charles, and P. S. Miller, Schenectady, N. Y., assignors to General Electric Company. Oil reclaimer. 1,703,644; Feb. 26.
- Van Brunt, Charles, Schenectady, and P. S. Miller, Scotia, N. Y., assignors to General Electric Company. Oil reclaimer. 1,703,648; Feb. 26.
- Van Brunt, John, Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Traveling-grate stoker. 1,698,113; Jan. 8.
- Van Brunt, John, Flushing, N. Y., assignor to Combustion Engineering Corporation. Burning pulverized coal. 1,707,335; Apr. 2.
- Van Brunt, John, Flushing, N. Y., assignor to Combustion Engineering Corporation. Chain grate. 1,714,577; May 28.
- Van Brunt, John, Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler furnace. 1,731,446; Oct. 15.
- Van Brunt, John, Flushing, N. Y., assignor to International Combustion Engineering Corporation. Boiler furnace. 1,733,474; Oct. 29.
- Van Brunt, John, Flushing, assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler furnace. 1,734,656; Nov. 5.
- Van Brunt, John, and G. P. Jackson, Flushing, N. Y., assignors to Combustion Engineering Corporation. Water-screen connection. 1,738,544; Dec. 10.
- Van Brunt, Josiah A., Rutherford, N. J. Bath thermometer. Des. 78,416; Apr. 30.
- Van Brunt, Willard A., Los Angeles, Calif. Holder for fishing rods. 1,720,982; July 16.
- Van Buren, Chester G., Chicago, Ill. Loose-leaf binder. 1,736,558; Nov. 19.
- Van Buskirk, Erie L., Lodi, Calif. Valve. 1,731,881; Oct. 15.
- Van Buskirk, Leshner W., Easton, Pa. Automatic switch operator. 1,708,245; Apr. 9.
- Van Buskirk, Leshner W., Easton, Pa. Centrifugal hammer. 1,724,786; Aug. 13.
- Vance, Arlyn T., Los Angeles, Calif. Physician's dilator. 1,735,519; Nov. 12.
- Vance, John C., Bristol, Tenn. Doorcheck. 1,724,438; Aug. 13.
- Vance, John W., Detroit, Mich. Metal-shaping machine. 1,732,450; Oct. 22.
- Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Bar rack. 1,698,974; Jan. 15.
- Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Shelf and rack door. 1,709,504; Apr. 16.
- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Metal shelving. 1,717,635; June 18.
- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Spring-door locker. 1,720,020; July 9.
- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Locker. 1,720,021; July 9.
- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products Incorporated, Aurora, Ill. Rack. 1,723,753; Aug. 6.



- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Locker. 1,731,552; Oct. 15.
- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Steel insert for store counters. 1,739,809; Dec. 17.
- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Sheet-metal rack. 1,740,754; Dec. 24.
- Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill. Floor plate. 1,741,487; Dec. 31.
- Van Cleave, Lora C., Beaver City, Nebr. Doll for instruction in color. 1,730,177; Oct. 1.
- Van Cleave, Horatio P., Cranford, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Pipe hanger. 1,698,571; Jan. 8.
- Van Cuyck, Octave, Louvetain-Tilff, near Liege, Belgium. Manufacture of colors or the like capable of being fixed by heat. 1,730,178; Oct. 1.
- Van Daam, George, Paterson, N. J. Combustion device. 1,725,029; Aug. 20.
- Van Daam, Gerrit, Buffalo, N. Y. Delivering preheated air to combustion chambers. 1,717,421; June 18.
- Van Daam, Gerrit, Buffalo, N. Y. Combustion system for furnaces. 1,717,423; June 18.
- Van Daam, Gerrit, Buffalo, N. Y. Delivering preheated air to combustion chambers. 1,734,545; Nov. 5.
- Vandagriff, James V., Weatherford, Tex. Match receptacle. 1,732,145; Oct. 15.
- Vande Carr, Cornelis V., and H. W. Norton, Rochester, N. Y., said Vande Carr assignor to said Norton. Tool for sawing bungs and the like. 1,720,022; July 9.
- Van Degriff, Thomas C. (See Lee, C. L., and Van Degriff.)
- Van Degriff, Thomas C., assignor to General Motors Corporation, Detroit, Mich. Balancing-machine fixture. 1,731,833; Oct. 15.
- Van de Kamp, Jan. (See Snyders, G. C., Gordyn, van de Kamp, and Maitland.)
- Van de Kamp's Holland Dutch Bakers. (See Frank, Lawrence L., assignor.)
- Van de Mark, Eugene S., Springmount, Pa. Scooter vehicle. 1,706,048; Mar. 19.
- Van de Mark, William D., and G. G. Raymond, assignors to Lyon Iron Works, Greene, N. Y. Basket truck. 1,706,267; Mar. 19.
- Van Denburg, John W., New York, N. Y. Method and apparatus for repairing leaky conduits. 1,736,293; Nov. 19.
- Van den Heuvel, J. A. (See Woodward, George H., assignor.)
- Vandenoever, Peter, Minot, N. Dak. Globe protector. 1,702,802; Feb. 19.
- Van de Putte, Jean, St-Gilles-Brussels, Belgium. Float for hydroplanes. 1,725,890; Aug. 27.
- Van der Bergh, Zadok, et al. (See van der Jagt, Barend G. H., assignor.)
- Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. System utilizing radiant-energy sensitive device. 1,711,663; May 7.
- Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device and making the same. 1,738,269; Dec. 3.
- Vanderbilt, R. T., Company. (See Chamberlain, George D., assignor.)
- Vanderbilt, R. T., Company. (See Murrill, Paul I., assignor.)
- Vanderhoff, Ernest W., Saginaw, Mich. Shade roller. 1,728,457; Sept. 17.
- Vanderhoof, George E., Karval, Colo. Knife-head holder. 1,739,336; Dec. 10.
- Vanderhorst, Nicholas, assignor to H. Lindars, London, England. Locomotive valve gear. 1,697,097; Jan. 1.
- Van der Jagt, Barend G. H., The Hague, assignor of one-third to Dr. Zadok van der Bergh, Amsterdam, and one-third to F. A. J. van Kuyk, Bussum, Netherlands. Process, plant, and apparatus for the industrial treatment of coconuts and their constituents, particularly coconut fibers. 1,713,681; May 21.
- Vander Leun, Albert J., Wilkinsburg, Pa. Toilet-seat cover. 1,720,581; July 9.
- Vandermark, Alvah, Newburgh, N. Y. Window fixture. 1,708,857; Apr. 9.
- Van der Meer, Peter C. A., Detroit, Mich. Turntable. 1,732,113; Oct. 15.
- Van der Poel, Johannes M., assignor to N. V. Phillips' Gloeilampenfabrieken, Eindhoven, Netherlands. Metal vapor-jet pump. 1,712,595; May 14.
- Van der Pol, Balthasar, Eindhoven, Netherlands, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Coupling unit. 1,737,278; Nov. 26.
- Van der Pyl, Edward, Holden, Mass. Pneumatic shock absorber. 1,711,207; Apr. 30.
- Vander Veen, George L. (See Graf, E. F., and Vander Veen.)
- Vanderveer, Jewell W., Erie, Pa., assignor to Van Wheel Corporation, Oneida, N. Y. Vehicle wheel. 1,709,696; Apr. 16.
- Vander Veer, John H. (See Rowntree, H., and Vander Veer.)
- Vanderveld, Anthony. (See Morris, E., and Vanderveld.)
- Vanderveld, Anthony, Grand Rapids, Mich. Antispin mechanism and rebound check. 1,697,518; Jan. 1.
- Vanderveld, Anthony, Grand Rapids, Mich. Cloth measuring and computing machine. 1,725,771; Aug. 27.
- Vandervoort, Francis M., and H. D. Paxson, Salem, Ohio. Portable tire lathe. 1,723,221; Aug. 6.
- Vander Voort, Howard W., et al. (See Copeland, Harry A., assignor.)
- Vanderweghe Limited. (See Czortkowski, John, assignor.)
- Vanderwerp, Henry. (See Minogue, Roland E., assignor.)
- Vanderzee, Oscar, Hawthorne, N. J. Closure operating means. 1,736,103; Nov. 19.
- Van de Sande Bakhuyzen, Willem H. (See Bouwers, A., and van de Sande Bakhuyzen.)
- Van Deussen, William A., Cleveland, Ohio. Flushing apparatus. 1,699,824; Jan. 22.
- Van Deventer, Harry R. (See Horton, C., Van Deventer, and Heiny.)
- Van Deventer, Harry R., assignor to Radio Patents Corporation, New York, N. Y. Producing motion pictures. 1,698,178; Jan. 8.
- Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Variable condenser. 1,712,097; May 7.
- Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,718,185; June 18.
- Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Changeable resistance. 1,718,320; June 25.
- Van De Water, Burt, Modesto, Calif. Direction indicator. 1,738,128; Dec. 3.
- Van Dinter, George L., and C. Ferretie, assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Form-fitting boot and making same. 1,726,782; Sept. 3.
- Vandivier, James R., Franklin, Ind. Unitary accelerator and brake controller. 1,706,049; Mar. 19.
- Van Doren, Abraham E. (See Hayden, Harold R., assignor.)
- Van Dorn Electric Tool Company, The. (See Connell, E. L., and Schneider, assignors.)
- Van Dorn Electric Tool Company. (See Schneider, Franklin, assignor.)
- Van Dorn, Herbert E., Chicago, Ill., assignor to W. E. Van Dorn. Control system for train circuits. 1,726,508; Aug. 27.
- Van Dorn Iron Works Co., The. (See Brockett, Bluford W., assignor.)
- Van Dorn Iron Works Company, The. (See Whitehouse, John T., assignor.)
- Van Dorn, William E. (See Van Dorn, Herbert E., assignor.)
- Van Dorp, Gerard C. A., assignor to Naamlooze Vennootschap: Societeit voor Chemische Industrie "Katwijk", Katwijk a/Zee, Netherlands. Extracting theobromine from natural products. 1,718,093; June 18.
- Vandruff, Thomas C., et al. (See Abel, Joseph C., assignor.)
- Van Dusen, Charles A., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Flexible handhole cover. 1,722,346; July 30.
- Van Dusen, Charles A., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Impervious seaplane float. 1,740,846; Dec. 24.
- Van Duyn, Adrianus, assignor to Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen, Rotterdam, Netherlands. Weighing apparatus. 1,719,457; July 2.
- Van Duzer, Lyle J., Los Angeles, Calif. Carbon-removing tool. 1,706,050; Mar. 19.
- Van Duzer, Ralph, Gary, W. Va. Fruit-pressing machine. 1,698,613; Jan. 8.
- Van Dyck, William H., Ames, Iowa. Barrel truck. 1,709,925; Apr. 23.
- Van Dyck, Arthur F. (See Goldsmith, A. N., and Van Dyck.)
- Van Dyck, Arthur F., and E. J. Quinby, Yonkers, N. Y., assignors to Radio Corporation of America. Loudspeaker. Des. 79,677; Oct. 22.
- Van Dyck, Arthur F., and E. J. Quinby, Yonkers, N. Y., assignors to Radio Corporation of America. Electrical reproducer cabinet. Des. 80,198; Dec. 24.
- Van Dyck, Arthur F., and E. J. Quinby, Yonkers, and M. Pasternak, New York, N. Y., assignors to Radio Corporation of America. Electrical reproducer cabinet. Des. 80,199; Dec. 24.
- Van Dyke, Jesse, Kansas City, Mo. Hat support. 1,736,809; Nov. 26.
- Van Dyke, William D., Chattanooga, Tenn., assignor, by mesne assignments, to Kayser Hosiery Motor Mend Corporation, Wilmington, Del. Knitting needle. 1,730,545; Oct. 8.
- Van Dyke, William D., Chattanooga, Tenn., assignor, by mesne assignments, to Kayser Hosiery Motor Mend Corporation, Wilmington, Del. Needle. 1,730,546; Oct. 8.
- Van Dyn, Adrianus, assignor to Naamlooze Vennootschap Maatschappij tot Vervaardiging van Snijmachines Volgens van Berkel's Patent en van Andere Werktuigen, Rotterdam, Netherlands. Weighing scale. 1,740,320; Dec. 17.
- Van Berde, Egbert, New York, N. Y. Duplicator. 1,701,431; Feb. 5.



- Van Gaasbeek, Helen H., Albany, N. Y. Game device. 1,718,670; June 25.
- Van Gale, Louis, Astoria, N. Y. Electric-wire terminal. 1,701,801; Feb. 12.
- Van Gelder, Henry, Jersey City, N. J. Combined bumper and shock absorber. 1,698,207; Jan. 8.
- Van Gelderen, Frederik M., Enschede, Netherlands. Wire stripper. 1,725,114; Aug. 20.
- Van Gessel, Karel M., Eindhoven, Netherlands. Oxide cathode. 1,699,939; Jan. 22.
- Van Gessel, Karel M., Eindhoven, Netherlands, assignor to Radio Corporation of America. Manufacture of oxide cathodes. 1,721,169; July 16.
- Vanghan, Victor G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermodynamically-controlled fluid heater. 1,715,687; June 4.
- Van Gilder, Lincoln, Atlantic City, N. J. Water meter. 1,718,803; June 25.
- Van Gundy, Jay E. (See Geis, W. H., and Van Gundy.)
- Van Gundy, Theodore A., San Gabriel, Calif. Traffic-signaling apparatus. 1,726,784; Sept. 3.
- Vangunsten, Henry, Harrisburg, Pa. Disinfecting device. 1,723,827; Aug. 6.
- Van Hamersveld, John J. N., Cleveland Heights, assignor, by mesne assignments, to The Rotor Air Tool Company, Cleveland, Ohio. Rotary motor tool. 1,713,310; May 14.
- Van Hamersveld, John J. N., Cleveland Heights, assignor to The Rotor Air Tool Company, Cleveland, Ohio. Governor for fluid-pressure motors. 1,720,652; July 9.
- Van Hamersveld, John J. N., Cleveland Heights, assignor to The Rotor Air Tool Company, Cleveland, Ohio. Governor for fluid-pressure motors. 1,723,589; Aug. 6.
- Van Heusen, John M. (See Chardon, Felix, assignor.)
- Van Hise, Lester E., assignor to J. V. Baldwin, Los Angeles, Calif. Internal-combustion engine. 1,722,646; July 30.
- Van Hollen, Emil, Anoka, Minn. Exhaust-line cut-off valve for automobile heaters. 1,730,985; Oct. 8.
- Van Hoofstadt, Edward. (See Greenbaum, L., and Van Hoofstadt.)
- Van Hoofstadt, Edward. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)
- Van Hooydonk, Adrian C., assignor to John E. Smith's Sons Company, Buffalo, N. Y. Guard for meat mixers and the like. 1,705,428; Mar. 12.
- Van Hooydonk, Adrian C., assignor to John E. Smith Sons Co., Buffalo, N. Y. Machine for grinding meat and the like. 1,736,333; Nov. 19.
- Van Hoozer, Dennis, and I. Stone, Oakdale, Iowa. Bank protective device. 1,729,302; Sept. 24.
- Van Horn, Irving H., and W. A. Pipkin, East Cleveland, Ohio, assignors to General Electric Company. Incandescent electric lamp. 1,717,283; June 11.
- Van Horne, Philip, et al. (See Olson, Samuel, assignor.)
- Van Horne, Vernon A., Stockton, Calif. Confection holder. 1,720,190; July 9.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Dough divider. 1,703,126; Feb. 26.
- Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Dough divider. 1,740,049; Dec. 17.
- Van Houweling, Arthur C. (See Hartley, A. J., and Van Houweling.)
- Van Houweling, Arthur C., Pella, Iowa, assignor, by mesne assignments, to Hart Grain Weigher Company, Peoria, Ill. Conveyor for grain weighers. 1,701,023; Feb. 5.
- Van Hove, Desire H., assignor to L. A. Young Industries, Inc., Detroit, Mich. Upholstery unit for vehicle bodies and the like. 1,727,529; Sept. 10.
- Van Husen, Norman. (See Jandus, H. S., and Van Husen.)
- Van Keulen, Godefridus H. C., The Hague, Netherlands. Apparatus for cutting openings in deep-well casings. 1,731,553; Oct. 15.
- Vankirk, George C. (See Coate, N., Vankirk, and Coate.)
- Van Kleef, Jan, Soerabaja, Java, Dutch East Indies. Prepayment water meter. 1,722,185; July 23.
- Van Kuyk, Frederick A. J., et al. (See van der Jagt, Barend G. H., assignor.)
- Van Leer, Alexander I., The Hague, Netherlands. Brake apparatus for vehicles. 1,734,839; Nov. 5.
- Van Liempt, Johannes A., Eindhoven, Netherlands, assignor to General Electric Company. Manufacture of ductile bodies from highly-refractory metals. 1,728,814; Sept. 17.
- Van Ling, Johannes H. A., Amsterdam, Netherlands. Protective sheet for closet seats. 1,713,062; May 14.
- Van Loon, Johannes, Deventer, Netherlands, assignor, by mesne assignments, to Novadel-Agene Corporation, Newark, N. J. Fermentation process. 1,727,223; Sept. 3.
- Van Lue, William E., assignor to National Standard Company, Niles, Mich. Apparatus for and method of closing and straightening tire-bead tape. 1,740,050; Dec. 17.
- Van Meter, James W., San Rafael, Calif. Underground animal extermination. 1,727,457; Sept. 10.
- Vannah, Harold P. (See Van Arsdell, W. B., and Vannah.)
- Vannah, Harold P., West Palm Beach, Fla., and J. G. Gosselink, assignors to Brown Company, Berlin, N. H. Impregnating wood. 1,714,701; May 28.
- Van Nes, Gerhard E., Pasoeroean, Java, Dutch East Indies. Manufacture and use of absorbing agents containing silica. 1,715,439; June 4.
- Van Nes, Gerhard E., Pasoeroean, Java, Dutch East Indies. Purification of liquids containing sugar. 1,727,738; Sept. 10.
- Van Ness, Henry E., Elmira, N. Y. Dyeing apparatus. 1,734,455; Nov. 5.
- Van Norman, Charles E., assignor to Van Norman Machine Tool Company, Springfield, Mass. Grinding machine. 1,722,691; July 30.
- Van Norman, Hubert E., assignor to American Dry Milk Institute, Inc., Chicago, Ill. Animal display sign. Des. 78,669; May 28.
- Van Norman Machine Tool Company. (See Stowell, Byron F., assignor.)
- Van Norman Machine Tool Company. (See Van Norman, Charles E., assignor.)
- Van Nortwick, John, Batavia, Ill., assignor to Appleton Manufacturing Company. Conveyor for corn pickers, harvesters, and the like. 1,727,021; Sept. 3.
- Van Nostrand, Arleigh N., Flushing, assignor to Telautograph Corporation, New York, N. Y. Telautograph system. 1,728,022; Sept. 10.
- Van Nostrand, Arleigh N., Flushing, assignor to Telautograph Corporation, New York, N. Y. Telautograph apparatus. 1,728,023; Sept. 10.
- Van Note, Eugene, New York, N. Y. Aircraft elevating means. 1,726,783; Sept. 3.
- Van Osdol, Dawson D., Rushville, Ind. Automobile signal. 1,720,108; July 9.
- Van Patten, John W., assignor of one-third to B. Carter and one-third to H. E. Beckwith, Chetek, Wis. Snowplow. 1,718,094; June 18.
- Van Patten, Louis C. (See Largent, R. M., and Van Patten.)
- Van Patten, Louis C., Cheney, Wash. Rotary-rod weeder. 1,697,484; Jan. 1.
- Van Patten, Louis C., Cheney, Wash. Rotary-rod weeder. 1,718,503; June 25.
- Van Proyen, Arthur. (See Rothman, A. G., and Carter, assignors.)
- Van Ranst, Cornelius W., Detroit, Mich. Internal-combustion engine. 1,738,159; Dec. 3.
- Van Rennes, Cornelis, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Air-bag valve. 1,735,700; Nov. 12.
- Van Rossum, Alfons, Frankfurt-on-the-Main-Eschersheim, Germany. Fireproof receptacle for films and other combustible materials. 1,715,480; June 4.
- Van Rossum, Joseph, Grand Rapids, Mich. Winding-stairs structure. 1,716,713; June 11.
- Van Sant, Robert H. (See Goodall, F. E., and Van Sant.)
- Van Sant, Robert H. (See Wagner, R. W., Williams, and Wells, assignors.)
- Van Sant, Robert H., Chicago, Ill. Toilet package. 1,723,099; Aug. 6.
- Van Schaack Bros. Chemical Works, Inc. (See Calvert, Robert, assignor.)
- Van Schaack Bros. Chemical Works, Inc. (See Van Schaack, Robert H., jr., assignor.)
- Van Schaack Bros. Chemical Works, Inc. (See Schalch, J., and Olson, assignors.)
- Van Schaack Bros. Chemical Works, Inc. (See Van Schaack, R. H., jr., and Calvert, assignors.)
- Van Schaack Bros. Chemical Works, Inc. (See Young, Hoylande D., assignor.)
- Van Schaack, Robert H., Jr., Evanston, Ill. Fractionation apparatus. 1,725,429; Aug. 20.
- Van Schaack, Robert H., Jr., Evanston, assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Esters of hydrogenated aromatic alcohols. 1,697,295; Jan. 1.
- Van Schaack, Robert H., Jr., Evanston, assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Condensation of mixed aldehydes. 1,700,103; Jan. 22.
- Van Schaack, Robert H., Jr., Evanston, assignor to Van Schaack Bros. Chemical Works, Chicago, Ill. Aryl alkyl esters. 1,700,960; Feb. 5.
- Van Schaack, Robert H., Jr., Evanston, assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Hexyl ester. 1,702,180; Feb. 12.
- Van Schaack, Robert H., Jr., Evanston, assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Pyroxylin composition. 1,702,181; Feb. 12.
- Van Schaack, Robert H., Jr., Evanston, Ill. assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Pyroxylin composition. 1,734,657; Nov. 5.
- Van Schaack, Robert H., Jr., Evanston, and R. Calvert, Wilmette, assignors to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Alkoxy esters of polybasic organic acids. 1,706,639; Mar. 26.
- Van Schaack, Robert H., Jr., and R. Calvert, Chicago, Ill., assignors to Van Schaack Bros. Chemical Works, Inc. Derivative of ethylene glycol. 1,733,639; Oct. 29.
- Van Sichel, Ernest J., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,730,396; Oct. 8.
- Van Sicksel, John H., assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada. Tobacco-leaf-stem-cutting machine. 1,726,636; Sept. 3.
- Van Sicksel, John H., Montreal, Quebec, assignor to General Cigar Company Limited, Montreal, Canada. Display case. 1,730,100; Oct. 1.
- Vansickle, Melvin E., assignor to Brandes Laboratories, Inc., Newark, N. J. Resistor. 1,722,511; July 30.
- Vansickle, Melvin E., assignor to Brandes Laboratories, Inc., Newark, N. J. Electrical phonograph apparatus. 1,733,323; Oct. 29.
- Vansickle, Melvin E., assignor to Brandes Laboratories, Inc., Newark, N. J. Electrical phonograph apparatus. 1,734,312; Nov. 6.



- Van Sicklen Corporation. (See Kimball, Samuel J., assignor.)
- Van Sicklen Corporation. (See Veneman, Carl C., assignor.)
- Van Sickle, John H., assignor to Imperial Tobacco Company of Canada, Limited, Montreal, Quebec, Canada. Package. 1,702,325; Feb. 19.
- Van Sickle, Irving N., assignor to Sargent & Company, New Haven, Conn. Casement-window adjuster. 1,712,973; May 14.
- Vansteenkiste, Joseph A., Hoogweg, Belgium. Scutching machine. 1,711,508; May 7.
- Van Steensburg, Leo E., Charlestown, assignor to American Pneumatic Service Company, Boston, Mass. Magazine terminal. 1,729,635; Oct. 1.
- Vanusck, John, Republic, Pa. Miner's safety helmet cap. 1,722,869; July 30.
- Vanvactor, William T., Gary, Ind. Automatic ignition control. 1,699,640; Jan. 22.
- Van Valkenburg, Fred S. (See Pierson, W. D., and Van Valkenburg.)
- Van Valkenburg, Herman L. Wauwatosa, assignor to Industrial Controller Co., Milwaukee, Wis. Electric switch. 1,698,037; Jan. 8.
- Van Valkenburg, Herman L., and S. Miller, Wauwatosa, assignors to The Paralock Company, Milwaukee, Wis. Vehicle seat. 1,735,518; Nov. 12.
- Van Valkenburgh, Richard M., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder. 1,701,517; Feb. 12.
- Van Valkenburgh, Richard M., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder. 1,710,492; Apr. 23.
- Van Valkenburgh, Richard M., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Visible-index device. 1,710,493; Apr. 23.
- Van Veen, Anton, West Hartford, Conn. Machine for securing brush fibers to metallic strips. 1,701,088; Feb. 5.
- Van Veen, Anton, West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Machine for making brushes. 1,706,715; Mar. 26.
- Van Veen, Anton, West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Machine for twisting wires with material therebetween. 1,711,461; Apr. 30.
- Van Veen, Anton, West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Wire-twisting machine. 1,716,844; June 11.
- Van Veen, Anton, West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Mop-making machine. 1,719,093; July 2.
- Van Veen, Anton, Hartford, and G. F. Matteson, Rocky Hill, assignors to The Fuller Brush Company, Hartford, Conn. Handle-affixing machine. 1,706,714; Mar. 26.
- Van Vlaanderen Machine Company. (See McNamara, John S., assignor.)
- Van Vlijmen, Joannes M. B., Overveen, Netherlands. Closing (sealing) of bottles. 1,702,182; Feb. 12.
- Van Voorhis, William C., Andrews, S. C. Rim compressor. 1,728,706; Sept. 17.
- Van Vorst, John, Schenectady, and G. M. Baker, Scotia, assignors to Mohawk Asphalt Heater Company, Schenectady, N. Y. Oil burner. 1,728,580; Sept. 17.
- Van Vorst, John, Schenectady, and G. M. Baker, Scotia, assignors to Mohawk Asphalt Heater Company, Schenectady, N. Y. Oil burner. 1,728,581; Sept. 17.
- Van Weenen, Franciscus L., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Feed mechanism for slicing machines. 1,708,246; Apr. 9.
- Van Weenen, Franciscus L., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Guide cover for slicing machines. 1,710,906; Apr. 30.
- Van Wheel Corporation. (See Vanderveer, Jewell W., assignor.)
- Van Wienen, Pieter, Hamburg, Germany. Cutting head for suction dredgers. 1,730,958; Oct. 8.
- Van Winkle, Herbert H., assignor to The Bonn Machine Company, Cincinnati, Ohio. Pump head for vertical deep-well pump. 1,718,990; July 2.
- Van Zütphen, Ludwig. (See Schirmacher, K., and van Zütphen.)
- Vapor Car Heating Company. (See Gold, E. H., Manchester, and Russell, assignors.)
- Vapor Car Heating Company. (See Gold, E. H., and Russell, assignor.)
- Vapor Car Heating Company. (See Keeler, B. A., and Frumveller, assignors.)
- Vapor Car Heating Company. (See Parks, P. B., and Miller, assignors.)
- Vara, Joseph C., Buffalo, N. Y. Sash fastener. 1,714,196; May 21.
- Varaud, André, Geneva, Switzerland. Percussion fuse for projectiles. 1,726,325; Aug. 27.
- Varcoe, Earl V., Philadelphia, Pa. Steam generator. 1,727,458; Sept. 10.
- Varden, Joseph W., Evansville, Ind. Lubricant seal for shaft bearings. 1,716,992; June 11.
- Variety Fire Door Company. (See Gervais, Wainwright B., assignor.)
- Variety Fire Door Company. (See Wilmot, John C., assignor.)
- Varkas, Spiros S., New York, N. Y. Aeroplane landing-gear arm. 1,741,964; Dec. 31.
- Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
- Varley Duplex Magnet Co. (See Varley, Thomas W., assignor.)
- Varley, Frederick W., Kincaid, Saskatchewan, Canada. Sheaf shocker. 1,701,706; Feb. 12.
- Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Co. Control system for electric circuits. 1,720,936; July 16.
- Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Ignition system. 1,720,937; July 16.
- Varley, Richard, Englewood, N. J., assignor, by mesne assignments, to General Cable Corporation, New York, N. Y. Coil and winding the same. 1,723,261; Aug. 6.
- Varley, Thomas W. (See Finnigan, G. P., and Varley.)
- Varley, Thomas W., New York, N. Y., assignor to Varley Duplex Magnet Co. Ignition system. 1,725,432; Aug. 20.
- Varnau, Bernard H., and T. B. Wayne, Sugar Land, Tex. Manufacture of extra-fine soft granulated sugar. 1,715,049; May 28.
- Varnau, Bernard H., and T. B. Wayne, Sugar Land, Tex. Sugar-crystallizing apparatus. 1,724,627; Aug. 13.
- Varner, John E., Rochelle, Ill. Track liner. 1,710,597; Apr. 23.
- Varney, Theodore, Sewickley, assignor to Aluminum Company of America, Pittsburgh, Pa. Suspension means for transmission-line conductors. 1,722,118; July 23.
- Varney, Theodore, Sewickley, assignor to Aluminum Company of America, Pittsburgh, Pa. Joint for wires or cables. 1,714,253; May 21.
- Varney, Theodore, Sewickley, and M. E. Noyes, Dormont, assignors to Aluminum Company of America, Pittsburgh, Pa. Power-transmission lines. 1,703,797; Feb. 26.
- Varney, William W. (See Dirzeweit, John F., assignor.)
- Varney, William W. (See Friedel, Arthur C., assignor.)
- Varney, William W. (See Madsen, Charles P., assignor.)
- Varney, William W. (See Watts, R. T., and Carr, assignors.)
- Varnol Chemical Corporation. (See Rosenblum, Israel, assignor.)
- Varnum, Carrol F., Glendale, Calif. Pool-ball rack. 1,725,494; Aug. 20.
- Varrieur, Henry O., Santa Barbara, Calif. Milk-bottle closure. 1,724,810; Aug. 13.
- Vartabedian, Kalud N., Chicago, Ill. Dispensing device. 1,728,142; Sept. 10.
- Vasconcellos, Frank, Paia, Maui, Hawaii. Chopper and cultivator. 1,740,321; Dec. 17.
- Vasel, Gustav A., Philadelphia, Pa. Ink grinder. 1,699,641; Jan. 22.
- Vashon, Victor J., New York, N. Y. Air gauge. 1,732,249; Oct. 22.
- Vasko, Andrew, Detroit, Mich. Tooth extractor. 1,702,487; Feb. 19.
- Vastano, Frederick A., Paterson, N. J. Starter for internal-combustion motors. 1,700,750; Feb. 5.
- Vastano, Frederick A., Paterson, N. J. Starter for internal-combustion motors. 1,727,086; Sept. 3.
- Vastine, George M. (See Vastine, Ray P., assignor.)
- Vastine, Ray P., assignor to G. M. Vastine, Chicago, Ill. View passage for furnaces. 1,717,636; June 18.
- Vastine, Ray P., assignor to G. M. Vastine, Chicago, Ill. Observation window for furnaces. 1,717,637; June 18.
- Vaszi, Albert, Milwaukee, Wis. Refractory grate for furnaces. 1,738,856; Dec. 10.
- Vaszin, Aurel, Dayton, Ohio. Amusement device. 1,734,064; Nov. 5.
- Vattes, John, New York, N. Y. Can and bottle opener. 1,741,259; Dec. 31.
- Vaucain, Charles P., Drexel Hill, and F. E. Merklinger, Philadelphia, Pa. Axle box. 1,741,260; Dec. 31.
- Vaucklain, Samuel M., Rosemont, Pa. Driving wheel and axle. 1,733,035; Oct. 22.
- Vaughan, Amos C., Anadarko, Okla. Cotton-picking machine. 1,713,572; May 21.
- Vaughan, Anne B., assignor to Morrison Brushes, Inc., Glens Falls, N. Y. Archery game. 1,737,871; Dec. 3.
- Vaughan, Arthur H. (See Cope, F. T., and Vaughan.)
- Vaughan, Berkeley S., assignor to F. E. Tower, Greenville, Mich. Folding structure. 1,705,347; Mar. 12.
- Vaughan, Claude H., and J. H. Hamilton, Penticton, British Columbia, Canada. Guide bar. 1,701,432; Feb. 5.
- Vaughan, Conrad, Handsworth, Birmingham, England. Manufacture of die castings. 1,697,741; Jan. 1.
- Vaughan, Earl D., Hartsville, Ohio. Landing float. 1,713,457; May 14.
- Vaughan, Harry L., assignor to Vaughan Novelty Mfg. Co., Chicago, Ill. Can opener. 1,715,524; June 4.
- Vaughan Novelty Mfg. Co., The. (See Vaughan, Harry L., assignor.)
- Vaughan, Raymond E., Piqua, M. H. Redman, and W. S. D. Leland, Dayton, Ohio. Selector. 1,710,126; Apr. 23.
- Vaughan, Victor G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermal-control system. 1,729,561; Sept. 24.
- Vaughn, Clifford W., Berkeley, Calif. Condensation drainer. 1,714,647; May 28.
- Vaughn, Frank O., Poughkeepsie, N. Y. Heat regulator. 1,727,950; Sept. 10.
- Vaughn, George A., Berwick, Pa. Combined dough molder and divider. 1,722,610; July 30.



- Vaughn, George A., assignor to The Parsons Company, Newton, Iowa. Boom-hoist structure for excavating machines. 1,708,598; Apr. 9.
- Vaughn, Herman F., and R. R. Terpening, Schenectady, N. Y. Electrical installation assemblage and conductor clamp. 1,711,912; May 7.
- Vaughn, John L., Cicero, assignor to The Gerrard Company, Inc., Chicago, Ill. Wire-binding machine. 1,697,890; Jan. 8.
- Vaughn, John L., San Francisco, Calif., assignor to M. Vaughn, Cicero, Ill. Automatic phonograph. 1,707,290; Apr. 2.
- Vaughn Machinery Company, The. (See Bittman, Jesse C., assignor.)
- Vaughn Machinery Company. (See Tippet, Philip V., assignor.)
- Vaughn, Mary. (See Vaughn, John L., assignor.)
- Vaughn, Sidney P., Ackerman, Miss., assignor to The Surface Combustion Company, Incorporated, Toledo, Ohio. Burning gaseous mixtures. 1,704,875; Mar. 12.
- Vaughn, Sidney P., U. S. Navy, Ackerman, Miss., assignor to The Surface Combustion Company, Inc., New York, N. Y. Apparatus for heating fluids. 1,700,961; Feb. 5.
- Vaughn, Sidney P., U. S. Navy, Ackerman, Miss., assignor to Surface Combustion Company, New York, N. Y. Apparatus for burning explosive gaseous mixtures. 1,706,087; Mar. 19.
- Vaughn, Versal V., Los Angeles, Calif. Battery-cleaner-cleaning device. 1,710,127; Apr. 23.
- Vaught, Evelyn B., San Diego, Calif. Dressed rabbit doll. Des. 79,537; Oct. 1.
- Vaupel, Albert, Berlin-Grünwald, Germany, assignor to Westinghouse Electric & Manufacturing Company. Conductor hanger. 1,705,691; Mar. 19.
- Vawter, Charles E., Philadelphia, Pa. Electric lighter. Des. 80,010; Nov. 26.
- Vaxes, George V., Youngstown, Ohio. Beauty-parlor dress and hair protector set. 1,722,067; July 23.
- Veale, George W., Cleveland Heights, assignor to The Eaton Axle-Spring Company, Cleveland, Ohio. Bumper. 1,739,272; Dec. 10.
- Veale, George W., Cleveland Heights, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Bumper. 1,740,527; Dec. 24.
- Veale, George W., Cleveland Heights, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Bumper. 1,740,528; Dec. 24.
- Veall, Arthur J., South Yarra, Victoria, Australia. Quick-action electric switch. 1,713,201; May 14.
- Veazey, William R., Cleveland Heights, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Insecticidal composition. 1,737,132; Nov. 26.
- Vee Products Company. (See Holke, Frank A., assignor.)
- Vedder, Bernhard F. P., Milwaukee, Wis. Electric radiator. 1,709,505; Apr. 16.
- Vedder, John W. (See Stafford, S. B., and Vedder.)
- Vedder, John W., Worcester, Mass. Paper-making machine. 1,734,929; Nov. 5.
- Vedder, Joseph R., Reading, Ohio. Locking device for motor vehicles. 1,708,070; Apr. 9.
- Veeder, Curtis H., Hartford, Conn. Drapery hanger. 1,698,746; Jan. 15.
- Veeder, Curtis H., Hartford, Conn. Valve. 1,710,248; Apr. 23.
- Veeder-Root Incorporated. (See Rossberg, Charles A., assignor.)
- Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Valve. 1,720,938; July 16.
- Vegetable Products, Inc. (See Chamberlin, Robert B., assignor.)
- Veil, John F., Leigh-on-Sea, England. File for papers and like sheets. 1,734,658; Nov. 5.
- Veilleux, Adolphe, St. Maries, Idaho. Springboard anchoring mechanism. 1,722,402; July 30.
- Veit, Walter, New York, N. Y., assignor to Congoleum-Nairn Incorporated. Making linoleum and product thereof. 1,741,488; Dec. 31.
- Veitch, Edward I., and G. N. Blanchard, Piedmont, Calif. Controlling apparatus for oil burners. 1,728,314; Sept. 17.
- Veitch, Thomas, Brielle, N. J. Indicator for water-cooled engines. 1,713,107; May 14.
- Veitch, Thomas, Brielle, N. J., assignor of one-half to H. L. Perez, Bronxville, N. Y. Fluid-level indicator. 1,734,185; Nov. 5.
- Velen, Luther T., Lancaster, Pa. Shock loader and conveyor. 1,702,141; Feb. 12.
- Velling, Jacob J., Milwaukee, Wis. Power apparatus. 1,734,546; Nov. 5.
- Veloric, Morris. (See Kolber, B., and Veloric.)
- Velthoen, Johannes S., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,710,907; Apr. 30.
- Velzy, John E., and W. T. Groner, assignors to Southwestern Portland Cement Company, Dayton, Ohio. Apparatus and process for making cement. 1,714,060; May 21.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Making cementitious mixtures. 1,704,268; Mar. 5.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Sheave construction for lever-arm buckets. 1,709,418; Apr. 16.
- Venard, William G., Los Angeles, Calif. Scaffold structure. 1,702,527; Feb. 19.
- Venard, William G., Long Beach, Calif. Concrete-form apparatus. 1,707,336; Apr. 2.
- Venard, William G., Los Angeles, Calif. Scaffold bracket. 1,712,974; May 14.
- Venegas, Daniel L., Santa Barbara, Calif. Combination dresser trunk. 1,705,320; Mar. 12.
- Veneman, Carl C., New York, N. Y. Belt buckle. 1,702,674; Feb. 19.
- Veneman, Carl C., Chicago, assignor to Van Sicklen Corporation, Elgin, Ill. Badge or similar article. Des. 78,951; July 9.
- Veneman, Carl C., Chicago, assignor to Van Sicklen Corporation, Elgin, Ill. Badge or similar article. Des. 78,952; July 9.
- Venge, John, New Orleans, La. Combination umbrella and chair. 1,736,893; Nov. 26.
- Vennard, William. (See Turner, Elsie F., assignor.)
- Vennard, William, Kings Cross, London, England. Loose-leaf binder. 1,732,624; Oct. 22.
- Vennum, George C., Wilmington, assignor to Edge Moor Iron Company, Edge Moor, Del. Baffling for water-tube steam boilers. 1,711,622; May 7.
- Venon, Jules H., New York, N. Y. Goblet or similar article of table glassware. Des. 78,058; Mar. 19.
- Venon, Jules H., New York, N. Y. Goblet or similar article of table glassware. Des. 78,059; Mar. 19.
- Venon, Jules H., New York, N. Y. Goblet or similar article of table glassware. Des. 78,060; Mar. 19.
- Vensel, Isalah W., Wilkinsburg, and W. E. Smith, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electric lock for interlocking machine levers. 1,741,003; Dec. 24.
- Vento Steel Sash Company. (See Gillman, John J., assignor.)
- Ventresca, Ercole, Houston, Tex. Spear. 1,715,481; June 4.
- Ventresca, Ercole, Houston, Tex. Inside-casing cutter. 1,739,932; Dec. 17.
- Ventress, Cecil A., Dubberly, La. Cane harvester. 1,712,913; May 14.
- Ventura, Giacomo, Los Angeles, Calif. Automobile bumper. 1,702,675; Feb. 19.
- Venus Lamp Corporation. (See Konikoff, H. R., and Rabinowitz, assignors.)
- Venzie, Frederick M., Philadelphia, Pa. Building structure. 1,735,886; Nov. 19.
- Venzie, Frederick M., Philadelphia, Pa. Plaster composition. 1,736,294; Nov. 19.
- Vera, John F., Chicago, Ill., assignor to The Reliable Automatic Sprinkler Company, Inc., New York, N. Y. Alarm check valve. 1,699,085; Jan. 15.
- Verburg, John P., Ontario, N. Y. Shovel. 1,731,512; Oct. 15.
- Verdegem, Maurice, and W. A. Graf, Paterson, N. J. Shuttle. 1,704,309; Mar. 5.
- Verderosa, Joseph M., Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Paint and varnish remover. 1,739,744; Dec. 17.
- Verdict, Gustaaf, Ghent, Belgium. Metal packing. 1,720,065; July 9.
- Verdier, William A., et al. (See Johnson, Walter, assignor.)
- Verdin, Roman J. (See Verdin, Rose F. and R. J.)
- Verdin, Rose F. and R. J., Jeffersonville, Ind. Cabinet heaters. 1,713,573; May 21.
- Verdon, William P. (See Roche, John, assignor.)
- Verduce, Joseph, Beckley, W. Va. Illuminated dry-cleaning board. 1,728,458; Sept. 17.
- Verecken, Laurent F., Vancouver, British Columbia, Canada. Fish lure. 1,710,908; Apr. 30.
- Vereenigde Textiel Maatschappij en Mautner N. V. (See Nigrin, Rudolf, assignor.)
- Verege, Charles A., et al. (See Hondeville, August I., assignor.)
- Verein fuer Chemische und Metallurgische Produktion. (See Schwenk, E., Reichner, and Knob, assignors.)
- Verein für Chemische Industrie Aktiengesellschaft. (See Löw, Eduard, assignor.)
- Verein für Chemische Industrie Aktiengesellschaft. (See Runkel, Roland, assignor.)
- Vereinigte Schubfabriken Bernels Wessels Aktiengesellschaft. (See Schubart, Benno, assignor.)
- Vereinigte Schweizerische Rheinsalinen. (See Paltzer, Georg, assignor.)
- Vereinigte Stahlwerke Aktiengesellschaft. (See Grossweische, J., and Reichenbecher, assignors.)
- Vereinigte Stahlwerke Aktiengesellschaft. (See Heskamp, Paul, assignor.)
- Vereinigte Stahlwerke Aktiengesellschaft. (See Piwowarsky, Eugen, assignor.)
- Vereinigte Stahlwerke Aktiengesellschaft. (See Püngel, Wilhelm, assignor.)
- Vereinigte Stahlwerke Aktiengesellschaft. (See Weber, Friedrich W., assignor.)
- Vereinigte Stahlwerke A. G. Düsseldorf. (See Hülsbruch, Walter, assignor.)
- Vergonis, Sophocles D., New York, N. Y. Registering collection box. 1,712,596; May 14.
- Verhey, Hubert C., et al. (See Bowes, Thomas D., assignor.)
- Vérice, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Radiocabinet or the like. Des. 77,444; Jan. 8.



- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Radio loud speaker or the like. Des. 77,797; Feb. 19.
- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Radiocabinet or the like. Des. 77,927; Mar. 5.
- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Radio loud speaker or the like. Des. 77,991; Mar. 12.
- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Support for radiocabinets or the like. Des. 79,343; Sept. 3.
- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Radio loud-speaker or the like. Des. 80,200; Dec. 24.
- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Radio loud-speaker or the like. Des. 80,201; Dec. 24.
- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Die-Casting Co. Radiocabinet or the like. Des. 80,202; Dec. 24.
- Vericel, Antoine, Baldwin, N. Y., assignor to Doehler Products Corp. Metal furniture. 1,718,321; June 25.
- Verkruysse, Clyde, Atkinson, Ill. Side draft eliminating device. 1,716,804; June 11.
- Verlinden, Edmond, Milwaukee, Wis. Organ valve. 1,724,326; Aug. 13.
- Vermette, Lucien D., Ludlow, Mass. Windshield wiper. 1,729,636; Oct. 1.
- Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 77,567; Jan. 22.
- Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 77,568; Jan. 22.
- Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 77,569; Jan. 22.
- Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,570; Jan. 22.
- Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,571; Jan. 22.
- Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end or similar article. Des. 78,133; Mar. 26.
- Vermilye, Claude I., Flushing, N. Y., assignor to Metropolitan Electric Mfg. Co. Switch-control gear. 1,724,119; Aug. 13.
- Vermont Marble Company. (See Atwill, Arthur J., assignor.)
- Vernam, Gilbert S., River Edge, N. J., assignor to American Telephone and Telegraph Company. Telegraph system. 1,735,940; Nov. 19.
- Vernay, Jean B., Villeurbanne, France. Filtering drum. 1,720,156; July 9.
- Verner, John D. (See Wharton, Edward R., assignor.)
- Vernet, Sergius. (See Vernet, Waldemar and S.)
- Vernet, Sergius, Brooklyn, N. Y. Car heater. Re17,431; Sept. 10.
- Vernet, Sergius, Brooklyn, N. Y. Car heater. 1,705,550; Mar. 19.
- Vernet, Sergius, Brooklyn, N. Y. Windshield-wiper attachment. 1,717,067; June 11.
- Vernet, Waldemar, New York, and S. Vernet, Brooklyn, N. Y. Equalizer for shock absorbers. 1,717,175; June 11.
- Vernon, Vernon A. A., Wellington, New Zealand. Transport vehicle. 1,742,154; Dec. 31.
- Vernon, William F., Newton, Iowa. Memorandum device. 1,729,916; Oct. 1.
- Vernor, James, Company. (See Doughty, William E., assignor.)
- Verona Tool Works. (See Crawford, David L., assignor.)
- Verona Tool Works. (See Hart, William F., assignor.)
- Veronneau, Louis H., Montreal, Quebec, Canada. Electric heater. 1,702,326; Feb. 19.
- Verret, Nicholas J., Memphis, Tenn. Take-off and landing apparatus for aeroplanes. 1,737,483; Nov. 26.
- Versare Corporation. (See Warhus, Oliver F., assignor.)
- Versteeg, Hendrik J., Diemen, assignor to C. J. Jung, Amsterdam, Netherlands. Apparatus for spraying molten substances. 1,705,214; Mar. 12.
- Verstraete, Edmond, Nutley, N. J. Thermostatic furnace-dampener control. 1,708,980; Apr. 16.
- Ver Wiebe, Herbert C., Royal Oak, Mich. Universal locking device. 1,709,239; Apr. 16.
- Verwys, Andrew J. (See Cornell, J. E., and Verwys.)
- Verzinkerei Zug A. G. (See Hofer, Hans, assignor.)
- Vessey, Ernest A., London, England. Speed-changing mechanism. 1,733,704; Oct. 29.
- Vesta Battery Corporation. (See Angell, Chester M., assignor.)
- Vesta Battery Corporation. (See Morrison, William, assignor.)
- Vested, Harry B., Chicago, Ill. Adapter for trailer-coupling devices. 1,706,425; Mar. 26.
- Vester, Alfred, Sons, Inc. (See Wightman, Thomas H., assignor.)
- Vesuvius Crucible Company, The. (See Jackman, Arthur J., assignor.)
- Vetter, Ludwig, Nuremberg, Germany. Liquid sprayer. 1,722,403; July 30.
- Ve Verka, Lewis I., San Marcial, N. Mex. Emergency check valve. 1,703,801; Feb. 26.
- Vezie, Melbourne E., Cushing, Okla. Heating apparatus. 1,725,322; Aug. 20.
- Vial, Frederick K., La Grange, Ill., and T. Fitzsimmons, Denver, Colo., assignors to Griffen Wheel Company, Chicago, Ill. Cope rammers. 1,710,523; Apr. 23.
- Vial, Frederick K., and D. W. Starkey, assignors to Griffin Wheel Company, Chicago, Ill. Wheel breaker. 1,703,127; Feb. 26.
- Vial, George G., Armadale, Australia. Box or case for containing, removing, and marketing produce and merchandise. 1,705,078; Mar. 12.
- Viale, Spirito M., and H. L. Towns, assignors to Armstrong Siddeley Motors Limited, Coventry, England. Screw propeller. 1,728,315; Sept. 17.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Electric grounding connection. 1,719,915; July 9.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Conduit-grounding bushing. 1,728,280; Sept. 17.
- Vibber, Wheeler H., New London, Conn. Conduit and circuit-grounding fitting. 1,733,475; Oct. 29.
- Viberg, Ernest R., Montreal, Quebec, Canada. Articulated car. 1,726,872; Sept. 3.
- Viberg, Ernest R., Montreal, Quebec, Canada. Articulated car. 1,733,705; Oct. 29.
- Viberg, Ernest R., and A. L. Linderblad, Montreal, Quebec, Canada. Dump-car-locking mechanism. 1,702,327; Feb. 19.
- Viberg, Ernest R. and A. L. Linderblad, assignors to Canadian Car & Foundry Company Limited, Montreal, Quebec, Canada. Dump car. 1,722,830; July 30.
- Vick, Henry, Evanston, Ill. Circulator for boilers. 1,707,337; Apr. 2.
- Vickers, Abram R., Camden, N. J., assignor to Curtis-Martin Newspapers, Inc., Philadelphia, Pa. Margin-printing mechanism. 1,719,148; July 2.
- Vickers Boiler Company Limited. (See Crinks, Percival F., assignor.)
- Vickers, Carroll B., Seattle, Wash. Hydraulic lifting jack. 1,728,088; Sept. 10.
- Vickers, Harry E., assignor to Vickers Manufacturing Company, Los Angeles, Calif. Press. 1,706,088; Mar. 19.
- Vickers, John C., Experiment, Ga., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,719,248; July 2.
- Vickers Limited. (See Dawson, A. T., White, and Buckham, assignors.)
- Vickers Limited. (See Lucas, Owen D., assignor.)
- Vickers Limited. (See Rabbidge, William F., assignor.)
- Vickers Manufacturing Company. (See Vickers, Harry F., assignor.)
- Vickers, Richard N., Smackover, Ark. Wrist pin. 1,708,981; Apr. 16.
- Vickery, Frederick W., London, England, assignor to Vickery Limited, Boston, Mass. Mechanism for inserting doctor blades. 1,719,094; July 2.
- Vickery, Harry W. (See Halvorson, C. A. B., jr., and Vickery.)
- Vickery, Harry W., Lynn, Mass., assignor to General Electric Company. Periodic switching mechanism. 1,701,398; Feb. 5.
- Vickery, Harry W., Lynn, Mass., assignor to General Electric Company. Adjustable switching mechanism. 1,701,399; Feb. 5.
- Vickery, Harry W., Lynn, Mass., assignor to General Electric Company. Electric-circuit switch. 1,717,285; June 11.
- Vickery Limited. (See Vickery, Frederick W., assignor.)
- Vickrey, Rufus, Walnut, Ill. Stretching apparatus. 1,722,647; July 30.
- Victaulic Company Limited. (See Johnson, Percy G., assignor.)
- Victor Adding Machine Company. (See Garbell, Max, assignor.)
- Victor, Alexander F., Davenport, Iowa. Picture-display cabinet. Des. 78,991; July 16.
- Victor, Alexander F., Davenport, Iowa. Film feed for cameras. 1,706,089; Mar. 19.
- Victor, Aron, Brooklyn, N. Y. Smoker's combination. 1,717,320; June 11.
- Victor Chemical Works. (See Waggaman, W. H., and Easterwood, assignors.)
- Victor Cooler Door Company. (See Jones, Richard E., assignor.)
- Victor Cooler Door Company. (See Jones, R. E., and Baltzley, assignors.)
- Victor Linen & Towel Service Company. (See Yehlen, Henry O., assignor.)
- Victor Mfg. & Gasket Co. (See Oven, Frank J., assignor.)
- Victor Ring Traveler Company. (See Morin, Amos, assignor.)
- Victor Talking Machine Company. (See Buckle, Horace L. T., assignor.)
- Victor Talking Machine Company. (See Elliott, Harold F., assignor.)
- Victor Talking Machine Company. (See Hallawell, Austin M., assignor.)
- Victor Talking Machine Company. (See Linehan, Edward E., assignor.)
- Victor Talking Machine Company. (See Mittell, Branchley E. G., assignor.)



- Victor Talking Machine Company. (See Reddie, L. N., and Mittell, assignors.)
- Victor Talking Machine Company. (See Stevenson, William B., assignor.)
- Victor Talking Machine Company. (See Whitaker, A., and Browne, assignors.)
- Victor Talking Machine Company. (See Wickes, Clarence S., assignor.)
- Victor Talking Machine Company. (See Wismer, Samuel H., assignor.)
- Victor Welding Equipment Co. (See Stettner, Ludwig W., assignor.)
- Victor X-Ray Corporation. (See Wantz, Julius B., assignor.)
- Victoreen, Charles J., Cleveland Heights, Ohio. Master control. 1,735,363; Nov. 12.
- Victoreen, John A., Cleveland, Ohio. Audio frequency transformer. 1,703,912; Mar. 5.
- Victorsohn, Morris, Brooklyn, N. Y. Garment-hanger support. 1,706,683; Mar. 26.
- Victorsohn, Morris, Brooklyn, N. Y. Garment hanger and support. 1,733,036; Oct. 22.
- Victory Sparkler & Specialty Company. (See Clauser, Herbert, assignor.)
- Vidach, John B., Chicago, Ill. Bumper. 1,729,731; Oct. 1.
- Viden, Erik, Canwood, Saskatchewan, Canada. Bearing. 1,731,753; Oct. 15.
- Vidier, Sandall G., El Paso, Tex. Seed trap. 1,709,291; Apr. 16.
- Vieau, Harold F., Liverpool, N. Y., assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,728,379; Sept. 17.
- Viehmann, Louis J., East Elmhurst, assignor to Teepee-Whitney Corp., New York, N. Y. Table. 1,724,811; Aug. 13.
- Viehweger, August F. W., assignor to Viehweger Lock Company, Inc., Poughkeepsie, N. Y. Sheet-metal lock. 1,709,101; Apr. 16.
- Viehweger Lock Company. (See Viehweger, August F. W., assignor.)
- Viehweger, Otto H., Philadelphia, Pa., assignor to Gotham Silk Hosiery Company, Inc., New York, N. Y. Tension hooks for knitting machines. 1,721,609; July 23.
- Viele, John H., Elmira, N. Y. Valve for fuel-storage tanks. 1,737,529; Nov. 26.
- Vierengel, Harry W., Brooklyn, N. Y. Paper bag. 1,712,779; May 14.
- Vierengel, M., Machine Co. (See Vierengel, Matthew, assignor.)
- Vierengel, Matthew, Brooklyn, assignor to M. Vierengel Machine Co., Inc., New York, N. Y. Drinking cup. 1,720,497; July 9.
- Vierling, Frank J., Minneapolis, Minn. Pencil. 1,698,353; Jan. 8.
- Vierling, Frank J., and F. R. Bartholomew, Minneapolis, Minn., assignors, by mesne assignments, to Autopoint Company, Chicago, Ill. Pencil. 1,734,784; Nov. 5.
- Vieta, Miguel D., Habana, Cuba. Measuring instrument. 1,707,586; Apr. 2.
- Viets, Floyd H., Glendale, and C. H. Weiskopf, Hawthorne, assignors to International Precipitation Company, Los Angeles, Calif. Apparatus for electrical precipitation. 1,741,352; Dec. 31.
- Vieweg, Volkmar, Charlottenburg, near Berlin, Germany. Device for measuring torsion. 1,720,582; July 9.
- Viezzi, Luigi, North Bergen, assignor of one-half to J. Stilz, West New York, N. J. Wrench. 1,723,960; Aug. 6.
- Vigneau, André, assignor to Anciens Etablissements Siegel & Stockman Reunis Societe Anonyme, St. Ouen, France. Head for mannequin or similar article. Des. 79,052; July 23.
- Vignere, Leonard A., Greenwood, N. Y. Automatically-controlled fluid-pumping system. 1,705,792; Mar. 19.
- Vignos, James C., Canton, Ohio. Pickling process. 1,736,332; Nov. 19.
- Vignos, James C., Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Preservation of metallic surfaces. 1,734,949; Nov. 5.
- Vignos, James C., Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Preserving metallic surfaces. 1,734,950; Nov. 5.
- Vignos, Paul, assignor to Berger Manufacturing Company, Canton, Ohio. Latch for lockers. 1,740,672; Dec. 24.
- Viken, Antonius J. (See Beidler, D. C., and Viken.)
- Viking, Lars G., Buffalo, Kans. Power-driven corn-cutting attachment for binders. 1,719,033; July 2.
- Viking Pump Company, The. (See Jensen, Amos V., assignor.)
- Viking Tool and Machine Co. (See Reiss, Paul, assignor.)
- Viksten, Ernst G. Skarsatra, Lidington, and K. A. B. Holm, Stockholm, Sweden, assignors to American Gas Accumulator Company, Elizabeth, N. J. Gas-flash-light apparatus. 1,738,160; Dec. 3.
- Vila, Alfonso, Guanabacoa, Habana, Cuba. Scaffold. 1,714,466; May 21.
- Vilas Oil Burners Limited. (See Fogarty, Orville A., assignor.)
- Vilas, Royal L., New Haven, Conn. Mixing tank. 1,717,478; June 18.
- Villar, Louis C., New York, N. Y. Telephone dial light. 1,725,430; Aug. 20.
- Villaret, Gustave E., Leonia, N. J., assignor to Halcolite Company, Inc. Lighting-fixture plate or article of analogous nature. Des. 77,798; Feb. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Halcolite Company, Inc. Lighting-fixture wall bracket or article of analogous nature. Des. 77,799; Feb. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Grille for loud speakers. Des. 77,928; Mar. 5.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light fixture. Des. 78,061; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light fixture. Des. 78,062; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Tassel. Des. 78,063; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light fixture. Des. 78,064; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-lamp-shade holder. Des. 78,065; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Brace for electric-light fixtures. Des. 78,066; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 78,067; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Loop for electric light fixtures. Des. 78,068; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 78,069; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric-light-fixture canopy. Des. 78,070; Mar. 19.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table standard. Des. 78,134; Mar. 26.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table standard. Des. 78,135; Mar. 26.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Bench standard. Des. 78,670; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Bench standard. Des. 78,671; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table standard. Des. 78,672; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table standard. Des. 78,673; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Table standard. Des. 78,674; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Arm for electric-light fixtures. Des. 78,675; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Brace for electric-light fixtures. Des. 78,676; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Metropolitan-Columbia Mfg. Co., Inc. Lighting-fixture strap or article of analogous nature. Des. 78,677; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Metropolitan-Columbia Mfg. Co., Inc. Shield plate for lighting-fixture brackets or article of analogous nature. Des. 78,678; May 28.
- Villaret, Gustave E., Leonia, N. J., assignor to Metropolitan-Columbia Mfg. Co., Inc. Chandelier. Des. 79,864; Nov. 5.
- Villaret, Gustave E., Leonia, N. J., assignor to Metropolitan-Columbia Mfg. Co., Inc. Ceiling lighting fixture. Des. 79,865; Nov. 5.
- Villaret, Gustave E., Leonia, N. J., assignor to Markel Electric Products, Inc., Buffalo, N. Y. Vase element of an electric-light fixture. Des. 80,058; Dec. 3.
- Villatore, Joseph E., and B. Mammone, New York, N. Y. Headrest support. 1,716,806; June 11.
- Viloco Railway Equipment Company. (See Vissering, Harry, assignor.)
- Vimco Mfg. Company. (See Hauenstein, Paul A., assignor.)
- Vincent, Charles H., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,708,710; Apr. 9.
- Vincent, Ernest H., Oakland, Calif. Steam boiler. 1,714,829; May 28.
- Vincent, Eugene T., Boston, Mass. Thermostat. 1,722,186; July 23.
- Vincent, Frank P., Elyria, assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio. Forming hollow articles. 1,700,751; Feb. 5.
- Vincent, Frank P., Elyria, Ohio, assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio. Brazing. 1,742,017; Dec. 31.
- Vincent, Harry S., Ridgewood, N. J., assignor to Franklin Railway Supply Company, New York, N. Y. Booster-supplemented locomotive. 1,722,024; July 23.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,698,078; Jan. 8.



- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,699,725; Jan. 22.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Vibration damper for internal-combustion engines. 1,701,596; Feb. 12.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Vibration damper for internal-combustion engines. 1,701,597; Feb. 12.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,708,711; Apr. 9.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,712,462; May 7.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Crankshaft, flywheel, and clutch mechanism. 1,727,142; Sept. 3.
- Vincent, Noah O., Joplin, Mo. Road tool. 1,733,841; Oct. 29.
- Vincent, Raphael S. (See Davy, G. S., and Vincent.)
- Vincent, Sidney C., et al. (See Volkman, Frederick C., assignor.)
- Vincke, Enrique, assignor to Manufacturas de Corcho S. A., Barcelona, Spain. Cork product and the manufacture thereof. 1,722,611; July 30.
- Vincke, Enrique, assignor to Manufacturas de Corcho S. A., Barcelona, Spain. Composition cork and the manufacture thereof. 1,722,648; July 30.
- Vines, Harry L. (See Argo, L. T., and Vines.)
- Vineski, Thomas E., Troy, Pa. Umbrella tag. 1,717,422; June 18.
- Vinette, George H., Detroit, Mich. Vehicle brake. 1,720,307; July 9.
- Vinnedge, George E., Orange, Tex. Windshield wiper. 1,721,140; July 16.
- Vinson, Thomas M., administrator. (See Collins, John T.)
- Virck, Paul. (See Schöner, B., and Virck.)
- Virck, Paul, Dessau in Anhalt, Germany, assignor, by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Condensation product containing sulphur. 1,736,063; Nov. 19.
- Virgile, Gabriel J., Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 77,992; Mar. 12.
- Virgile, Gabriel J., Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 77,993; Mar. 12.
- Virgile, Gabriel J., Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 77,994; Mar. 12.
- Virgile, Gabriel J., Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 77,995; Mar. 12.
- Virgile, Gabriel J., Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 77,996; Mar. 12.
- Virgile, Gabriel J., Brooklyn, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 78,720; June 11.
- Virginia Plate Glass Corporation. (See Roberts, George G., assignor.)
- Virginia Smelting Company. (See Binns, Frederick W., assignor.)
- Viscose Company, The. (See Thompson, Donald C., assignor.)
- Viscount, Joseph L., assignor to Snyder & Black, Incorporated, New York, N. Y. Display support. 1,705,052; Mar. 12.
- Visible Night-and-Day Street-Name Signs, Incorporated. (See Gatchell, Helen C., assignor.)
- Visible Records Equipment Company. (See Dornes, Harry J., assignor.)
- Visintainer, Faustino, Laferty, Ohio. Compound tool. 1,719,575; July 2.
- Visintainer, Felix, Glacier, Wash. Smoking pipe. 1,697,034; Jan. 1.
- Vision-Tone Corporation. (See Von Madaler, Ferdinand, assignor.)
- Vision-Tone Corporation. (See von Madaler, F., and De Madaler, assignors.)
- Visitacion, Aniceto R., assignor of one-fourth to G. W. Weigel and one-half to L. G. Weigel, New York, N. Y. Combined lighter and cane. 1,719,458; July 2.
- Visitacion, Aniceto R., assignor of one-third to G. W. Weigel and one-third to L. G. Weigel, New York, N. Y. Vending machine. 1,739,810; Dec. 17.
- Visking Corporation, The. (See Dietrich, Harold E., assignor.)
- Vissat, Anthony L., Jeannette Borough, Pa. Railway frog. 1,697,152; Jan. 1.
- Vissering, Harry, Kenilworth, Ill. Controlling mechanism for locomotive whistles. 1,705,627; Mar. 19.
- Vissering, Harry, Kenilworth, Ill. Track sander. 1,735,097; Nov. 12.
- Vissering, Harry, Kenilworth, assignor to Harry Vissering and Company, Chicago, Ill. Lubricator. 1,721,891; July 23.
- Vissering, Harry, Kenilworth, assignor to Viloco Railway Company, Chicago, Ill. Pressed-metal brake step. 1,734,547; Nov. 5.
- Vissering, Harry, assignor to The Okadee Company, Chicago, Ill. Outlet valve. 1,736,179; Nov. 19.
- Vissering, Harry, and Company. (See Roesch, Frank P., assignor.)
- Visuola Corporation. (See Bostelman, John C., jr., assignor.)
- Viswat, Harm J., Kalamazoo, Mich. Joint structure for wall boards. 1,716,674; June 11.
- Vitapack Corporation. (See Rector, Thomas M., assignor.)
- Vitello, Ralph, et al. (See Berne, Celestin, assignor.)
- Vitenko, Andrew, New York, N. Y. Spring tire. 1,710,524; Apr. 23.
- Vitez-Keresztfalvy, Anthony, Toledo, Ohio. Interchangeable and adjustable mattress units. 1,716,176; June 4.
- Vitamin Milling Corporation. (See Kinslow, Elijah M., assignor.)
- Vitrefrac Corporation, The. (See Curtis, Thomas S., assignor.)
- Vitreous Enameling Company, The. (See McGregor, James A., assignor.)
- Vitreous Steel Products Company. (See Jewell, Edward F., assignor.)
- Vitrolite Company, The. (See Damon, Bert F., assignor.)
- Vitrolite Company, The. (See Marmion, Louis G., assignor.)
- Vitte, Paul R., Chicago, Ill. Burner for glass furnaces. 1,697,384; Jan. 1.
- Vivas, Fernando S., Los Angeles, Calif., assignor to International Fireproof Products Corporation, New York, N. Y. Fireproofing and preserving wood. 1,702,285; Feb. 19.
- Vivas, Fernando S., Los Angeles, Calif., assignor to International Fireproof Products Corporation, New York, N. Y. Preparing a fire proofing material for paints. 1,707,587; Apr. 2.
- Vivas, Fernando S., Los Angeles, Calif., assignor to International Fireproof Products Corporation, New York, N. Y. Cleanser. 1,733,842; Oct. 29.
- Vivas, Fernando S., Los Angeles, Calif., assignor to International Fireproof Products Corporation, New York, N. Y. Noncombustible chlorinated hydrocarbon and producing the same. 1,733,843; Oct. 29.
- Vivas, Fernando S., Los Angeles, Calif., assignor to International Fireproof Products Corporation, New York, N. Y. Fireproofing cellulose. 1,738,976; Dec. 10.
- Vivatex Processes, Inc. (See White, Clarence B., assignor.)
- Vives, Julius C., Brooklyn, N. Y. Mold for battery nuts. 1,716,714; June 11.
- Vlastis, George, Boston, Mass. Motor meter. 1,717,128; June 11.
- Vlk, Adolph, Chicago, Ill. Combined automobile radiator, hood, and cowl. Des. 79,217; Aug. 13.
- Vobach, Arnold C. (See Tift, T. D., and Vobach.)
- Vobach, Arnold C., Whiting, Ind., assignor to Sinclair Refining Company, New York, N. Y. Refining hydrocarbons. 1,736,254; Nov. 19.
- Vocalservo Company, The. (See Severy, Melvin L., assignor.)
- Vocational Adjustment Bureau. (See Hirshon, Beatrice L., assignor.)
- Vocero, Rogelio, Ciego de Avila, Cuba. Soot-collecting apparatus. 1,725,687; Aug. 20.
- Vocisano, Domenico, Montreal, Quebec, Canada. Clamp for concrete forms. 1,702,676; Feb. 19.
- Vodicka, John, assignor, by mesne assignments, to Cinch Manufacturing Corporation, Chicago, Ill. Curtain fastener. 1,700,752; Feb. 5.
- Vodicka, John, assignor, by mesne assignments, to Cinch Manufacturing Corporation, Chicago, Ill. Metal screw socket. 1,710,390; Apr. 23.
- Vogel, August, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Roller mill. 1,730,906; Oct. 8.
- Vogtly, Frank L., Pittsburgh, Pa. Railroad rail. 1,722,720; July 30.
- Voehringer, John K., jr., and R. A. Gibbs, jr., Greensboro, N. C. Garment counter. 1,729,497; Sept. 24.
- Voelker, William J., Waterloo, Iowa. Adjustable joint connection. 1,708,528; Apr. 9.
- Voetter, Armin G., Bloomfield, N. J. Article of furniture. 1,714,115; May 21.
- Voetter, Paul. (See Pardun, C., and Voetter.)
- Vogel, Albert C. (See Vogel, Charles P. and A. C.)
- Vogel, Carl, Berlin-Schöneberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,705,692; Mar. 19.
- Vogel, Charles. (See Morgan, John J., assignor.)
- Vogel, Charles P. and A. C., assignors, by mesne assignments, to Machinery Development Company, Milwaukee, Wis. Leather-working machine. 1,715,582; June 4.
- Vogel, Frank, New Washington, Ohio. File for handling registered mail, parcel post, and C. O. D. packages. 1,705,842; Mar. 19.
- Vogel, Frederick W. (See Lewis, C. B., and Vogel.)
- Vogel & Halke. (See Vogel, Robert C. F., assignor.)
- Vogel, Joseph M., assignor to United Electrical Manufacturing Company, Adrian, Mich. Stirring device for liquids. 1,701,649; Feb. 12.
- Vogel, Joseph R. (See Howard, Albert S., assignor.)
- Vogel, Max, Frankfurt-on-the-Main, Germany. Stapling device. 1,740,322; Dec. 17.
- Vogel, Robert, New York, N. Y. Vehicle wheel and tire. 1,734,280; Nov. 5.
- Vogel, Robert C. F., assignor to firm of Vogel & Halke, Hamburg, Germany. Coin-actuated scale. 1,707,103; Mar. 26.
- Vogel, Robert C. F., assignor to Vogel & Halke, Hamburg, Germany. Weighing machine. 1,718,842; June 25.



- Vogel, Walter, assignor to the firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Maintaining a given speed of driven-machine shafts, particularly of paper-making machines. 1,707,376; Apr. 2.
- Vogel, Wilhelm, assignor to Felten & Guilleaume Carlsberg Actien-Gesellschaft, Cologne-Mulheim, Germany. High-tension cable. 1,722,163; July 23.
- Vogel, William H., Highland Park, Ill., assignor to International Combustion Engineering Corporation, New York, N. Y. Transporter. 1,731,447; Oct. 15.
- Vogelbusch, Wilhelm, Ratingen, Germany. Evaporation, distillation or the like apparatus. 1,733,476; Oct. 29.
- Vogelsang, Lewis O. (See Botto, Louis T., assignor.)
- Vogler, Crawford W., Vancouver, British Columbia, Canada. Log-sawing machine. 1,725,495; Aug. 20.
- Vogt, Clarence C., Haddonfield, N. J., assignor to Armstrong Cork Company, Pittsburgh, Pa. Artificial board and its manufacture. 1,718,011; June 18.
- Vogt, Clarence C., and E. J. Pieper, Haddonfield, N. J., assignor to Armstrong Cork Company, Pittsburgh, Pa. Artificial board and its manufacture. 1,718,012; June 18.
- Vogt, Clarence W., assignor to Vogt Instant Freezers, Incorporated, Louisville, Ky. Apparatus for manufacturing ice cream and the like. 1,733,740; Oct. 29.
- Vogt, Clarence W., assignor to Vogt Instant Freezers, Inc., Louisville, Ky. Manufacturing ice cream or the like. 1,742,171; Dec. 31.
- Vogt, Hans. (See Massolle, J., Vogt, and Engl.)
- Vogt, Hans, Berlin-Wilmersdorf, and J. Massolle and J. Engl, Berlin-Grünwald, Germany, assignors, by mesne assignments, to W. Fox, Woodbury, N. Y. Device for phonographs with linear phonogram carriers. 1,713,726; May 21.
- Vogt Instant Freezers, Incorporated. (See Vogt, Clarence W., assignor.)
- Vogt, John H., assignor to The Nolde and Horst Company, Reading, Pa. Making stockings. 1,708,342; Apr. 9.
- Vogt, Louis K. (See Williams, J. H., and Vogt.)
- Vogt, Lucien E., Roslindale, assignor to Farrington Manufacturing Company, Boston, Mass. Jewelry case. 1,715,966; June 4.
- Vogt, Richard C., West New York, N. J. Adjustable support for window curtains. 1,720,808; July 9.
- Vogtländische Maschinenfabrik (vormals J. C. & H. Dietrich) Aktiengesellschaft. (See Sieber, Gottwalt, assignor.)
- Vogtländische Maschinenfabrik (vormals: J. C. and H. Dietrich) Aktiengesellschaft. (See Wohlrahe, Otto, assignor.)
- Voil, Albert, and W. Wachtendorf, Göttingen, Germany. Purification of solutions of metal salts. 1,706,196; Mar. 19.
- Vohs, Norbert, Munich-Gladbach, Germany. Manufacture of half linen. 1,724,628; Aug. 13.
- Voices Incorporated. (See Grubman, Leo J., assignor.)
- Voices Incorporated. (See Konoff, Alexander, assignor.)
- Voigt, Albert. (See Uhlig, Richard W., assignor.)
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Paper sheathing. 1,699,259; Jan. 15.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Furring nail. 1,701,962; Feb. 12.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Lath-spacing nails. 1,703,560; Feb. 26.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Furring post. 1,706,008; Mar. 19.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Wire fastener. 1,706,009; Mar. 19.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Wire lath. 1,712,125; May 7.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Furring post. 1,714,457; May 21.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Wire fastener. 1,714,458; May 21.
- Voight, George F., Oakland, Calif., assignor to Economy Products Corporation. Wire fastener. 1,724,327; Aug. 13.
- Voightlander, Maximilian G., assignor to A. M. Lewin, Cincinnati, Ohio. Liquid and moisture extractor. 1,726,373; Aug. 27.
- Voigt, Albert P. J., Galveston, Tex. Nutcracker. 1,729,905; Oct. 1.
- Voigt, Albert P. J., and K. W. Linde, Galveston, Tex. Manifold. 1,703,374; Feb. 26.
- Voigt, Charles G., Hicksville, N. Y. Window-frame construction. 1,703,021; Feb. 19.
- Voigt Company. (See Flood, Charles W., jr., assignor.)
- Voigt, Robert W., assignor to the firm Johann C. Müller, Dresden, Germany. Machine for packeting cigarettes. 1,706,716; Mar. 26.
- Voit, Grover C., Hopedale, Ohio. Rail chair or tie. 1,715,107; May 28.
- Voit, Grover C., Hopedale, Ohio. Mining bucket. 1,719,576; July 2.
- Voit, Grover C., Hopedale, Ohio. Tracklaying attachment. 1,735,306; Nov. 12.
- Voith, J. M. (See Stein, Friedrich, assignor.)
- Volck, William H., assignor to California Spray-Chemical Company, Watsonville, Calif. Insecticide and making and using the same to protect plants. 1,707,465; Apr. 2.
- Volck, William H., assignor to California Spray-Chemical Company, Watsonville, Calif. Insecticide and making the same. 1,707,466; Apr. 2.
- Volck, William H., assignor to California Spray-Chemical Company, Watsonville, Calif. Fungicide. 1,707,467; Apr. 2.
- Volck, William H., assignor to California Spray-Chemical Company, Watsonville, Calif. Parastiticial oil. 1,707,468; Apr. 2.
- Volckening, Charles K. (See Volckening, Henry G., assignor.)
- Volckening, Henry G., assignor to C. K. Volckening, Brooklyn, N. Y. Brush holder. 1,714,935; May 28.
- Volckening, Henry G., assignor to C. K. Volckening, Brooklyn, N. Y. Bottle-washer brush. 1,719,034; July 2.
- Vold, Lars H., and K. R. Hammerstrom, Butler, Pa. Material-moving mechanism for punching machines. 1,698,326; Jan. 8.
- Vold, Lars H., and K. R. Hammerstrom, Butler, Pa. Air-control mechanism for punching machines. 1,702,097; Feb. 12.
- Volf, Christian A., jr., Brooklyn, N. Y. Combined loud-speaker and light. 1,727,419; Sept. 10.
- Voik, Andrew C., Duluth, Minn. Golf instructing apparatus. 1,703,375; Feb. 26.
- Volke, Joseph A., jr., Norwalk, Conn. Electrical fixture. 1,711,623; May 7.
- Volke, Sidney, Benton Harbor, Mich. Skylight. 1,734,840; Nov. 5.
- Volker, William, & Company. (See Maxwell, Robert M., assignor.)
- Volkman, Frederick C., assignor of one-third to K. H. Kiefer and S. C. Vincent, Baltimore, Md. Thermostat. 1,741,892; Dec. 31.
- Voll, Max, et al. (See Foss, Edmund, assignor.)
- Voll, Samuel T., Great Falls, Mont. Lubricator. 1,716,252; June 4.
- Volland, Karl. (See Stein, E. R., and Volland.)
- Vollbrecht, Paul, and J. Guglielmo, Joliet, Ill. Shoe-heel clamp. 1,727,143; Sept. 3.
- Vollink, Simon W., Hastings, Mich. Power unit. 1,715,727; June 4.
- Vollm, Adolf, Somerville, Mass. Glass cutter. 1,721,361; July 16.
- Vollman, George R., jr., Cincinnati, Ohio. Garment suspender. 1,706,758; Mar. 26.
- Vollmann, Heinrich. (See Kränzlein, G., and Vollmann.)
- Vollmann, Heinrich. (See Kränzlein, G., Vollmann, Greune, and Wolfram.)
- Vollmann, Heinrich. (See Kränzlein, G., Vollmann, and Wilke.)
- Vollmer, Frank R., Reading, Pa. Water-cooling unit for electric refrigerators. 1,741,594; Dec. 31.
- Vollmer, William A. (See Kusterle, F., and Vollmer.)
- Vollmer, William A. (See Travis, D. C., and Vollmer.)
- Vollmer, William A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Tip. 1,720,806; July 16.
- Vollmer, William A., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Crib. 1,733,636; Oct. 29.
- Vollmert, Arthur D. J. (See Breitenbach, P. J., and Vollmert.)
- Vollrath, Co. The. (See Maas, Henry, assignor.)
- Vollrath, Edwin, Easton, Pa. Combination belt punching and cutting machine. 1,736,559; Nov. 19.
- Voltz, Théodore. (See Bader, M., Sunder, and Voltz.)
- Volwiler, Ernest H., Highland Park, and D. L. Tabern, Lake Bluff, assignors to Abbott Laboratories, North Chicago, Ill. Antiseptic-anesthetic salts. 1,708,712; Apr. 9.
- Volz, Joseph, Elliott, N. Dak. Grain separator. 1,717,748; June 18.
- Völzing, Rudolf. (See Bauch, R. Koch, and Völzing.)
- Von Alvensleben, Frieda, née Wäagner, Gut Rusteberg, near Arenshausen, Germany. Handle-supporting closure band for vessels. 1,736,961; Nov. 26.
- Von Arco, Georg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Frequency filter. 1,703,184; Feb. 26.
- Von Arco, Georg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Speed governor. 1,708,529; Apr. 9.
- Von Arco, Georg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Apparatus for the generation of short electrical waves. 1,708,530; Apr. 9.
- Von Arco, Georg, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radio receiving system. 1,723,451; Aug. 6.
- Von Arco, Georg G., and M. Osnos, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for obtaining large outputs in frequency changers. 1,698,284; Jan. 8.
- Von Ardenne, Manfred, Berlin, Germany. Arrangement to protect capacitive loud-speakers against puncture. 1,737,872; Dec. 3.
- Von Arx, Emil, Olten, Switzerland. Device for cleaning tobacco pipes by means of water under pressure. 1,730,022; Oct. 1.
- Von Auw, Alwin, assignor to Boorum & Pease Company, Brooklyn, N. Y. Loose-leaf device. 1,708,811; Apr. 9.
- Von Baussen, Hans, Nowawes, near Berlin, Germany. Small-size hearing apparatus. 1,729,303; Sept. 24.



- Von Behr, Fritz, Uslar in Solling, Hanover, Germany. Impregnating process for dyeing or preserving wood. 1,740,484; Dec. 24.
- Von Bergen, Emil E., Chicago, Ill. Piston and valve arrangement for air brakes. 1,702,712; Feb. 19.
- Von Bichowsky, Foord, Glendale, Calif. Alkali metal compound of a suboxide of titanium and derivatives therefrom. 1,731,364; Oct. 15.
- Von Boeckmann, Paul, New York, N. Y. Typewriter. 1,717,819; June 18.
- Von Bottke, Detlef, Baltimore, Md. Fire kindler. 1,701,285; Feb. 5.
- Von Briesen, Harold, and R. N. Ink, San Diego, Calif. Can. 1,726,090; Aug. 27.
- Von Brockdorff, Rudolf, Munich, Germany, assignor to Schutte and Koerting Company, Philadelphia, Pa. Electric heating means. 1,715,018; May 28.
- Von Bronk, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Apparatus for converting sound waves into electric waves. 1,721,141; July 16.
- Von Bronk, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Transmitting antenna. 1,721,174; July 16.
- Von Bronk, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Indoor aerial. 1,731,992; Oct. 15.
- Von Canon, James B. and J. E. West End, N. C. Built-in bed lamp. 1,739,337; Dec. 10.
- Von Canon, James F. (See Von Canon, James B. and J. E.)
- Von der Lippe-Lipski, Elaine, Washington, D. C. Preserving perishable goods in storage and transit. 1,742,038; Dec. 31.
- Vondelaar, Edwin L., Indianapolis, Ind. Game. 1,740,799; Dec. 24.
- Von Dorn, Theodore F. (See Barili, A. E. H., and von Dorn.)
- Von Dorn, Theodore F. (See Norwood, Harry G., assignor.)
- Von Elm, William, Brooklyn, N. Y. Mold for freezing foods. Des. 77,379; Jan. 1.
- Von Frankenberg, Arthur, New York, N. Y. Lamp or similar article. Des. 79,678; Oct. 22.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Candle holder. Des. 77,659; Feb. 5.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 77,866; Feb. 26.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 78,174; Apr. 2.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 78,417; Apr. 30.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 78,418; Apr. 30.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 78,419; Apr. 30.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Combination cigarette holder and ash tray. Des. 78,420; Apr. 30.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Ash tray. Des. 78,421; Apr. 30.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Ash tray. Des. 78,797; June 18.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Ash tray. Des. 78,798; June 18.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 78,908; July 2.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 78,992; July 16.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y., Ash tray or similar article. Des. 78,993; July 16.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Smoking stand. Des. 80,059; Dec. 3.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Electric lamp or similar article. Des. 80,060; Dec. 3.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Electric lamp or similar article. Des. 80,061; Dec. 3.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Electric lamp or similar article. Des. 80,152; Dec. 17.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Electric lamp or similar article. Des. 80,153; Dec. 17.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 80,203; Dec. 24.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Aquarium or similar article. Des. 80,204; Dec. 24.
- Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp or similar article. Des. 80,205; Dec. 24.
- Von Frankenberg, Arthur, New York, N. Y. Waterproof receptacle. 1,736,295; Nov. 19.
- Von Girssewald, Conway, Frankfort-on-the-Main, H. Siegens, Horrem, near Cologne, and M. Marscher, assignors to Metallgesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany. Disintegrated alumina. 1,704,599; Mar. 5.
- Von Girssewald, Conway, Frankfort-on-the-Main, Germany. Converting silicates containing lithia with neutral alkali-metal salts. 1,710,556; Apr. 23.
- Von Girssewald, Freiherr C., Frankfort-on-the-Main, Germany. Making aluminum oxide from aluminum sulphide. 1,713,411; May 14.
- Von Glowacki, Wladimir, Kolomea, Poland, assignor to Radio Corporation of America. Multiple telephony upon one and the same electromagnetic wave. 1,697,941; Jan. 8.
- Von Grimmerstein, Henry E., Indianapolis, Ind. Battery-terminal puller. 1,715,019; May 28.
- Von Grimmerstein, Henry E., Indianapolis, Ind. Battery-plate-assembly burning rack. 1,715,020; May 28.
- Von Hagel, George A., Cincinnati, Ohio. Clamp. 1,729,694; Oct. 1.
- Von Halle, Millard, Palisades Park, N. J., assignor to The Standard Corset Company, New York, N. Y. Corset. 1,716,993; June 11.
- Von Halle, Millard, Palisades Park, N. J., assignor to The Standard Corset Company, New York, N. Y. Body-supporting means. 1,725,115; Aug. 20.
- Von Hantelmann & Co. (See Eyring, Georg, assignor.)
- Von Henke, Edmund J., assignor to American Electric Fusion Corporation, Chicago, Ill. Electric welding machine. 1,723,984; Aug. 6.
- Von Henke, Edmund J., assignor to American Electric Fusion Corporation, Chicago, Ill. Welding machine. 1,724,381; Aug. 13.
- Von Hoessle, Carl H., and W. Richter, Radebeul, near Dresden, assignors to Chemische Fabrik von Heyden, Radebeul-Dresden, Germany. Foil for ornamenting and printing purposes. 1,707,828; Apr. 2.
- Von Hofe, Christian, Vienna, Austria, assignor to Company C. P. Goerz Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goerz Opticky Ustav, Bratislava, Czechoslovakia. Panorama-exhibiting apparatus. 1,708,746; Apr. 9.
- Von Hofe, Christian, Vienna, and M. Maurer, Klosterneuburg, Austria. Wave-transmitting apparatus. 1,716,199; June 4.
- Von Hoorn, Fred. (See Baxter, H. G., and Von Hoorn.)
- Von Hütschler, Gustav, Hinderburg, Germany. Therapeutic appliance. 1,724,439; Aug. 13.
- Von Kandó, Kalman, Budapest, Hungary, assignor to Westinghouse Electric & Manufacturing Company. Synchronous phase converter. 1,724,382; Aug. 13.
- Von Kantzow, Hans G. A., Hallstahammar, Sweden. Fire-resistant alloy with high electric resistance. 1,717,284; June 11.
- Von Kersburg, Harry E., Scarsdale, assignor to R. H. Macy & Co., Inc., New York, N. Y. Key unit. 1,736,235; Nov. 19.
- Von Kleist, Felix B., Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company. Rectifier tank. 1,729,463; Sept. 24.
- Von Linprun, Inka, Mannheim, Germany. Violin support. 1,740,824; Dec. 24.
- Von Madaler, Ferdinand, and A. De Madaler, Hampton Bays, assignors to Vision-Tone Corporation, New York, N. Y. Casings for a combination home motion-picture machine and phonograph. Des. 78,071; Mar. 19.
- Von Madaler, Ferdinand, Hampton Bays, assignor to Vision-Tone Corporation, New York, N. Y. Reproducing sound and motion in synchronism. 1,713,503; May 14.
- Von Madaler, Ferdinand, Hampton Bays, assignor to Vision-Tone Corporation, New York, N. Y. Motion-picture projector. 1,713,504; May 14.
- Von Malmberg, Nils W. D., Kokomo, Ind. Casting apparatus. 1,734,313; Nov. 5.
- Von Maltitz, Edmund. (See Brassert, H. A., Dougan, and von Maltitz.)
- Von Maltitz, Eugen, The Hague, Netherlands, assignor to the firm J. Brüning & Sohn Aktien-Gesellschaft, Potsdam, near Berlin, Germany. Veneer box and manufacturing the same. 1,723,452; Aug. 6.
- Von Marbod, Friedrich, Wenatchee, Wash. Pocket tickler. 1,717,077; June 11.
- Vonnegut Hardware Company. (See Prinzler, Carl J., assignor.)
- Vonnegut, Ina H., Indianapolis, Ind. Paper box. 1,741,261; Dec. 31.
- Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Lighting-fixture wall bracket. Des. 79,053; July 23.
- Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Lighting-fixture wall bracket. Des. 79,054; July 23.
- Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Ceiling lighting fixture. Des. 79,173; Aug. 6.
- Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Shade. Des. 80,062; Dec. 3.
- Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Globe. Des. 80,099; Dec. 10.
- Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Lighting-fixture bracket or article of analogous nature. Des. 80,251; Dec. 31.
- Von Neudeck, Wilhelm, Philadelphia, Pa. Automatic quick-change drill chuck. 1,705,275; Mar. 12.
- Von Neudeck, Wilhelm, Philadelphia, Pa. Internal-keyway-milling device. 1,735,841; Nov. 12.
- Von Ohlsen, Louis H., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Regulating apparatus. 1,709,757; Apr. 16.
- Von Ohlsen, Louis H., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Storage-battery-charging system. 1,711,189; Apr. 30.



- Von Ohlsen, Louis, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Storage-battery-charging system. 1,720,520; July 9.
- Von Pagenhardt, Maximilian H., et al. (See von Pagenhardt, M. H., and Barker, assignors.)
- Von Pagenhardt, Maximilian H., St. Louis, and W. T. Barker, Kansas City, Mo., assignors of one-third to M. H. von Pagenhardt, St. Louis, and two-thirds to B. P. Lientz Oil Furnace Company, Kansas City, Mo. Baffle for boilers. 1,699,864; Jan. 22.
- Von Pein, Edward J., and A. G. Kramer, assignors, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,707,377; Apr. 2.
- Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Serval Corporation, New York, N. Y. Refrigeration. 1,728,643; Sept. 17.
- Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Serval Corporation, New York, N. Y. Refrigeration. 1,728,644; Sept. 17.
- Von Platen, Baltzar C., C. G. Munters, and S. M. Bäckström, Stockholm, Sweden, assignors to Electrolux Serval Corporation, New York, N. Y. Refrigeration. 1,711,553; May 7.
- Von Platen, Baltzar C., C. G. Munters, and S. M. Bäckström, Stockholm, Sweden, assignors to Electrolux Serval Corporation, New York, N. Y. Refrigeration. 1,723,453; Aug. 6.
- Von Platen, Baltzar C., C. G. Munters, and S. M. Bäckström, Stockholm, Sweden, assignors to Electrolux Serval Corporation, New York, N. Y. Refrigeration. 1,738,678; Dec. 10.
- Von Reppert, Richard, Hartford, Conn., assignor to Underwood Elliott-Fisher Company, New York, N. Y. Typewriting machine. 1,710,751; Apr. 30.
- Von Salis, Eduard, assignor to the firm Sulzer Frères Société Anonyme, Winterthur, Switzerland. Control of fuel-injection mechanism for internal-combustion engines. 1,701,089; Feb. 5.
- Von Salis, Eduard, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Fuel-injection means and method. 1,703,913; Mar. 5.
- Von Salis, Eduard, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine fuel pump. 1,726,937; Sept. 3.
- Von Sandt, William, Quantico, Va. Suction and air-blast attachment for clippers. 1,723,828; Aug. 6.
- Von Schaubert, Alexander, Berlin, Germany, assignor to General Electric Company. Protective arrangement. 1,728,024; Sept. 10.
- Von Schaubert, Alexander, Berlin, Germany, assignor to General Electric Company. Protective arrangement. 1,731,955; Oct. 15.
- Von Schickh, Otto, Berlin, assignor to the firm Schering-Kahlbaum Aktiengesellschaft. Chemical compound and making same. 1,717,424; June 18.
- Von Senden, Boyd V., et al. (See Simpson, Hiram R., assignor.)
- Von Stetten, Julius O., assignor to Philadelphia Metal Drying Form Company, Philadelphia, Pa. Hosiery-drying form. 1,698,381; Jan. 8.
- Von Stetten, Julius O., and O. U. Hofmann, Philadelphia, Pa., assignors, by mesne assignments, to The Prosperity Company, Inc. Garment press. 1,736,296; Nov. 19.
- Von Thaden, Harold, and G. F. Dodge, New York, N. Y., assignors to Robins Conveying Belt Company, Passaic, N. J. Storage and reclaiming apparatus. 1,705,274; Mar. 12.
- Vontobel, Ernst R., assignor to the firm Maschinenfabrik Oerlikon, Oerlikon, Switzerland. Cam-actuated contact-lever mechanism. 1,714,743; May 28.
- Von Vágó, Paul, and J. Páldy, Budapest, Hungary, assignors to Vago-Paldy G. m. b. H., Berlin, Germany. Securing together of sheets of paper. 1,697,212; Jan. 1.
- Von Voss, Richard, Berlin-Westend, and M. Schleicher, Berlin-Charlottenburg, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Measuring instrument. 1,740,130; Dec. 17.
- Von Wachenfeldt, Adolf C. S., Lund, assignor to Kirurgiska Instrument Fabriks Aktiebolaget, Stockholm, Sweden. Wound clasp. 1,728,316; Sept. 17.
- Von Waidy, Julius, New York, N. Y. Flying machine. 1,704,449; Mar. 5.
- Von Webern, Guido, Dayton, Ohio, assignor, by mesne assignments, to Oxford Varnish Corporation, Detroit, Mich. Method of and apparatus for making sheets of impression material. 1,700,962; Feb. 5.
- Von Zolnay, Otto, C. Coquelin, and W. Schulz, Brooklyn, N. Y. Water heater. 1,716,021; June 4.
- Voorhees, Gardner T. (See Benoist, L. A., and Voorhees.)
- Voorhees, Gardner T., Boston, Mass. Piston apparatus. 1,723,100; Aug. 6.
- Voorhees, Lee J., Binghamton, N. Y., assignor to National Carbon Company, Inc. Incandescent lamp. 1,712,368; May 7.
- Voorhees, Lee J., New York, N. Y., assignor to National Carbon Company, Inc. Switch. 1,714,531; May 28.
- Vopel, Johannes, Berlin-Neukölln, assignor to C. Lorenz Aktiengesellschaft, Berlin, Tempelhof, Germany. Synchronizing device. 1,708,642; Apr. 9.
- Vorbach, Joseph E., New York, N. Y. Necktie rack. Des. 78,799; June 18.
- Vorck, Theodor G., Barmen, Germany, assignor to The Narrow Fabric Co., West Reading, Pa. Warp-knitting machine. 1,706,426; Mar. 26.
- Vorck, Theodor G., Barmen, Germany. Knit fabric. 1,715,482; June 4.
- Vorck, Theodor, and P. Zimmermann, Barmen, Germany. Manufacture of knitted warp fabrics. 1,711,624; May 7.
- Vorclone Company. (See Bruckmann, Peter C., assignor.)
- Vortex Mfg. Co., The. (See Barbieri, Cesare, assignor.)
- Vortex Mfg. Co. (See Carle, Harold, assignor.)
- Vortex Mfg. Co., The. (See Holman, Rudolph, assignor.)
- Vortex Mfg. Co., The. (See Ohlson, John B., assignor.)
- Vortriede, Harry J., Toledo, Ohio. Blotter pad. 1,721,323; July 16.
- Vos, Calvin, et al. (See Holden, Thomas F., assignor.)
- Vosburg, Albert L., assignor to Kee-Lox Manufacturing Company, Rochester, N. Y. Typewriter and billing-machine ribbon. 1,739,191; Dec. 10.
- Vosse, Oliver F., assignor of one-half to E. J. Dickey, Kallispell, Mont. Data-sheet holder for computing machines and the like. 1,715,259; May 28.
- Voshardt, Herman F., assignor to Friedley-Voshardt Co., Chicago, Ill. Casing for a dishwasher. Des. 79,447; Sept. 17.
- Voskamp, John A., New York, N. Y., assignor to Irving Iron Works Company. Continuous grating structure. 1,733,923; Oct. 29.
- Voss, Arthur. (See Kränzlein, G., Voss, and Brunsträger.)
- Voss Bros. Mfg. Co. (See Voss, W. K., and Johnson, assignors.)
- Voss, John H., assignor to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,720,157; July 9.
- Voss, John H., assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,741,549; Dec. 31.
- Voss, John H., Berwyn, and C. E. Lomax, Oak Park, Ill., assignors to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,741,746; Dec. 31.
- Voss, Karl F., Copenhagen, Denmark. Restaurant signaling device. 1,714,333; May 21.
- Voss, Walter K., Davenport, Iowa. Washing machine. 1,725,891; Aug. 27.
- Voss, Walter K. and F. A. Johnson, assignors to Voss Bros. Mfg. Co., Davenport, Iowa. Washing machine. 1,699,770; Jan. 22.
- Vossen, Bartholomäus. (See Wagner, H., and Vossen.)
- Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company. Instruction device for musical instruments. 1,708,643; Apr. 9.
- Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company. Organ. 1,727,144; Sept. 3.
- Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company. Instruction device for musical instruments. 1,728,191; Sept. 17.
- Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company. Instruction device for musical instruments. 1,733,477; Oct. 29.
- Vought, Chance M. (See McCarthy, C. J., and Watter, assignors.)
- Vought, Chance M. (See Watter, Michael, assignor.)
- Vowinkel, Hugo M., Sheboygan Falls, Wis. Register. 1,713,008; May 14.
- Voyer, E. O., et al. (See Auger, Joseph T., assignor.)
- Vrabek, Rudolph, New York, N. Y. Waterproof stocking protector. 1,708,810; Apr. 9.
- Vradenburg, Wilbur C., Foley, Minn. Harness for artificial arms. 1,718,095; June 18.
- Vredenburg, Clarence, Larchmont, N. Y. Fountain pen. Des. 77,800; Feb. 19.
- Vreeland Corporation. (See Vreeland, Frederick K., assignor.)
- Vreeland, Frederick K., Montclair, N. J. Receiving system for radio telegraphy and telephony. 1,720,023; July 9.
- Vreeland, Frederick K., Montclair, N. J. Exclusive radio transmission and reception. 1,740,964; Dec. 24.
- Vreeland, Frederick K., Montclair, N. J., assignor to Vreeland Corporation, New York, N. Y. Band-receiving system. 1,725,433; Aug. 20.
- Vreeland, Frederick K., Montclair, N. J., assignor to Vreeland Corporation, New York, N. Y. Variable band amplifier. 1,730,987; Oct. 8.
- Vreeland, Richard, Bayonne, N. J., and J. F. Leahy, Brooklyn, N. Y. Ignition device. 1,700,603; Jan. 29.
- Vroman, John C., assignor of one-half to J. R. Ketchum, Chelsea, Okla., and one-fourth to C. A. Bickley, one-eighth to M. Goodman, and one-eighth to J. Bickley. Oil-well pump. 1,725,496; Aug. 20.
- Vroman, Victor F., Racine, Wis. Electric corn popper. 1,701,959; Feb. 12.
- Vroom, Edward, Ossining, and F. S. Entz, Mount Vernon, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,708,983; Apr. 16.
- Vroom, Edward, Ossining, and F. S. Entz, Mount Vernon, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,725,323; Aug. 20.
- Vroom, Edward, Ossining, and J. A. Kreck, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Repeater selection for toll lines. 1,708,982; Apr. 16.
- Vroom, Edward, Ossining, and J. A. Kreck, Brooklyn, H. L. Judd Company, Inc., Wallingford, Conn. Drapery hook. 1,730,101; Oct. 1.



- Vroom, Robert D. W., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery hanger. 1,722,255; July 23.
- Vrooman, Frank W. (See Harder, D. S., and Vrooman.)
- Vrooman, William S., assignor to The Paine and Williams Company, Cleveland, Ohio. Floor covering for automobiles and the like. 1,715,525; June 4.
- Vuccino, Amedee, New York, N. Y. Packing cigarettes. 1,711,368; Apr. 30.
- Vuilleumier, Albert, assignor to The New Departure Manufacturing Company, Bristol, Conn. Heat-treating apparatus. 1,715,317; May 28.
- Vuilleumier, Rudolph, New Rochelle, N. Y., assignor to The Safety Car Heating & Lighting Company. Heat-exchange apparatus. 1,716,333; June 4.
- Vukosav, Mike P., Eureka, Calif. Spittoon. 1,715,802; June 4.
- Vulcan Corporation. (See Clausang, George, assignor.)
- Vulcan Detinning Company. (See Horsch, William G., assignor.)
- Vulcan Detinning Company. (See McIlhenney, Horace R., assignor.)
- Vulcan Iron Works. (See Moore, Roscoe, assignor.)
- Vulcan Motor Devices Company. (See Taylor, Herman J., assignor.)
- Vulcan Oil Burner Corporation, The. (See Logan, James W., assignor.)
- Vulcanite Manufacturing Company. (See Sanderson, Joseph H., assignor.)
- Vyvan, Richard N. (See Wright, G. M., and Vyvan.)
- W-K-M Company. (See Cummings, J. D., and Norris, assignor.)
- W-K-M Company. (See McManis, Fred, assignor.)
- Waap, Fritz, Dresden, Germany. Hydraulic change gear. 1,701,901; Feb. 12.
- Wachowski, Franciszek J., New York, N. Y. Manicuring instrument. 1,730,868; Oct. 8.
- Wachsmuth, Albert J., Muskegon, Mich. Wrench. 1,706,427; Mar. 26.
- Wachtendorf, Wilhelm. (See Vohl, A., and Wachtendorf.)
- Wachter, Frank, St. Louis, Mo., assignor, by mesne assignments, to General Cable Corporation. Insulating electrical conductors. 1,727,146; Sept. 3.
- Wachusett Shirt Company. (See Jones, G. W., and Roberson, assignors.)
- Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie. (See Gruber, Wolfgang, assignor.)
- Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie. (See Noichl, F. X., and Schmidt, assignors.)
- Wacker, Frederick G., Chicago, Ill. Tool for reaming bushed bearings of engine connecting rods. 1,721,892; July 23.
- Wacker, Frederick G., and H. W. Zimmerman, assignors to Automotive Maintenance Machinery Co., Chicago, Ill. Tool for grinding valve seats. 1,734,548; Nov. 5.
- Wacker, George W., North Bergen Township, West Hoboken, assignor to The Pal Radio Company, Inc., North Bergen, N. J. Ear phones. 1,699,127; Jan. 15.
- Wacker, William E., Newark, N. J., assignor to August Goertz & Co., Inc. Cosmetic box. 1,735,482; Nov. 12.
- Wacker, William E., Newark, N. J., assignor to August Goertz & Co., Inc. Cosmetic box. 1,735,483; Nov. 12.
- Wackerle, Lewis E., assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Stand for fish bowls or similar articles. Des. 78,682; May 28.
- Wackerow, George L., Mellette, S. Dak. End-gate construction. 1,740,755; Dec. 24.
- Wackman, Louis B., St. Louis, Mo. Metallic container. 1,720,897; July 16.
- Wackwitz, Henry E. J., Port Washington, N. Y., and J. H. Wackwitz, Lyndhurst, N. J. 1,722,545; July 30.
- Wackwitz, John H. (See Wackwitz, Henry E. J. and J. H.)
- Waddell, Benson F., New York, N. Y. Sound-reproducing device and making same. 1,722,485; July 30.
- Waddell Company, The. (See Daugherty, Gilbert H., assignor.)
- Waddell & Hardesty. (See Williams, William G., assignor.)
- Waddell, Homer J., Baltimore, Md. Gas meter. 1,708,984; Apr. 16.
- Waddell, Jacob W., Columbus, Ohio. Ironing-board cabinet. 1,707,588; Apr. 2.
- Waddell, Kenneth M. (See Stitzer, R. B., and Waddell.)
- Waddell, Martin, and H. C. Watson, assignors to Watson-Waddell Limited, Belfast, Ireland. Treating or retting fiber-bearing plants. 1,708,812; Apr. 9.
- Waddell, Martin and H. C. Watson, Belfast, Ireland. Apparatus for treating flax for spinning. 1,722,164; July 23.
- Waddell, Norman O., Stratton, Nebr. Grain-elevator cleaner. 1,710,279; Apr. 23.
- Waddell, William, assignor to Continental Motors Corporation, Detroit, Mich. Sleeve-valve engine. 1,739,273; Dec. 10.
- Waddington, Edward H. (See Jones, Elisha B., assignor.)
- Waddington, Robert R., Roselle, N. J. Storage tank. 1,722,988; July 30.
- Waddington & Sons, Limited. (See Waddington, Walter, assignor.)
- Waddington, Walter, assignor to Waddington & Sons, Limited, Scarborough, York, England. Musical instrument. 1,728,815; Sept. 17.
- Waddington, William H., East Orange, N. J., assignor to Allegheny Steel Company. Roofing fastener. 1,697,153; Jan. 1.
- Wade, Daniel B. (See Anderson, George W., assignor.)
- Wade, Elmer J., and W. J. Rudge, jr., Pittsfield, Mass., assignors to General Electric Company. Cathode-ray oscillograph control. 1,738,464; Des. 3.
- Wade, George B., Racine, Wis. Leveling the top of the gravel layer of filter beds. 1,718,767; June 25.
- Wade, Robert C., Brownsville, Tex. Mold for casting fishing-line sinkers. 1,711,369; Apr. 30.
- Wadell, Albert H., Newark, N. J. Boring bar. 1,698,861; Jan. 15.
- Wadell, Albert H., Newark, N. J. Machine for trimming bearings. 1,698,862; Jan. 15.
- Wadhams, Frederick E., Chicago, Ill., assignor to Lincoln-Schluter Floor Machinery Co. Floor-treating machine. 1,728,520; Sept. 17.
- Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watch-case bezel. Des. 78,494; May 7.
- Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Buckle and making it. 1,708,985; Apr. 16.
- Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watch-case. 1,721,651; July 23.
- Wadsworth, Dwight W., Fennville, Mich. Packing apparatus and method. 1,712,859; May 14.
- Wadsworth Electric Manufacturing Company, The. (See Wadsworth, George B., assignor.)
- Wadsworth, Frank L. O., Pittsburgh, Pa. Rotary boring tool. 1,708,288; Apr. 9.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Water heater. 1,738,086; Dec. 3.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Water-heater construction. 1,738,087; Dec. 3.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Water heater. 1,738,088; Dec. 3.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Pneumatic tool. 1,739,338; Dec. 10.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to The Fulton Syphon Company, Knoxville, Tenn. Manufacture of flexible corrugated metallic walls. 1,706,198; Mar. 19.
- Wadsworth, George B., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Electric switch. 1,715,108; May 28.
- Wadsworth, George B., Covington, Ky., assignor to The Crim, Wadsworth & Thiel Auto Theft Alarm Development Company, Cincinnati, Ohio. Theft alarm for automobiles. 1,716,675; June 11.
- Wadsworth, George B., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Switch box. 1,728,143; Sept. 10.
- Wadsworth, George B., assignor to The Wadsworth Electric Manufacturing Company, Covington, Ky. Electrical switch box. 1,728,222; Sept. 17.
- Wadsworth, Howard L., Cleveland, Ohio. Sand-cutting mechanism. 1,714,830; May 28.
- Wadsworth, Leslie H. (See Wurzbach, H. E., and Wadsworth.)
- Wadsworth Watch Case Co., The. (See Beebe, M. C., Herlinger, and Swain, assignors.)
- Wadsworth Watch Case Company, The. (See Conant, Arthur P., assignor.)
- Wadsworth Watch Case Company, The. (See Shoemaker, John W., assignor.)
- Wadsworth Watch Case Company. (See Stegeman, Albert V., jr., assignor.)
- Wadsworth Watch Case Company, The. (See Stegeman, Albert V., jr., assignor.)
- Wadsworth Watch Case Company, The. (See Wadsworth, Arthur W., assignor.)
- Waeber, Arthur, Fribourg, Switzerland. Leading apparatus for monotype composing machines. 1,725,232; Aug. 20.
- Waehtler, Kurt O., West Reading, assignor to Textile Machine Works, Wyomissing, Pa. Spring-bar jack bed. 1,730,023; Oct. 1.
- Wagener, Hans, Berlin-Friedenau, assignor of one-fourth to H. Marzahn, Berlin-Wilmersdorf, Germany, and one-fourth to W. M. Barry, Detroit, Mich., and one-fourth to T. C. Betzoldt, M. A. Smith, and F. J. Cushing. Internal-combustion-engine piston and making the same. 1,700,604; Jan. 29.
- Wagener, Hans, assignor of one-fourth to H. Marzahn, Berlin, Wilmersdorf, Germany, one-fourth to W. N. Barry, Detroit, Mich., one-fourth to T. C. Betzoldt, M. A. Smith, and F. J. Cushing. Brazing copper alloys to iron alloys. 1,722,025; July 23.
- Wagener, Paul F. (See Stiles, W. H., Wagener, and Donovan.)
- Wagenhals, William G., Detroit, Mich. Electric motor. 1,712,533; May 14.
- Wagenhorst, James H., Jackson, Mich. Making rubber-tired wheels. 1,697,438; Jan. 1.
- Wagenhorst, James H., Jackson, Mich. Automobile wheel rim. 1,697,439; Jan. 1.
- Wagenhorst, James H., Jackson, Mich. Vehicle wheel. 1,697,440; Jan. 1.
- Wagenhorst, James H., Jackson, Mich. Tire carrier for automobiles. 1,712,127; May 7.
- Wagenhorst, James H., Jackson, Mich. Sheet-metal spoked wheel and making the spokes. 1,722,649; July 30.



- Wagenhorst, James H., Jackson, Mich. Battery jar. 1,722,650; July 30.
- Wagenhorst, James H., Jackson, Mich. Tire carrier. 1,733,924; Oct. 29.
- Wagenhorst, James H., Jackson, Mich. Making tubular spoked wheels. 1,737,780; Dec. 3.
- Wagenhorst, James H., Jackson, Mich. Demountable rim and fastening means for the same. 1,739,877; Dec. 17.
- Wagenhorst, James H., Jackson, Mich. Vehicle wheel. 1,739,878; Dec. 17.
- Wager, Robert H., Jersey City, N. J. Smoke-inspection device. 1,708,986; Apr. 16.
- Wager, Robert H., Jersey City, N. J. Smoke-inspection device. 1,708,987; Apr. 16.
- Waggaman, William H., and H. W. Easterwood, Chicago Heights, assignors to Victor Chemical Works, Chicago, Ill. Briquetted charge and producing phosphorus and potash therefrom. 1,701,286; Feb. 5.
- Waggaman, William H., and H. W. Easterwood, Chicago Heights, assignors to Victor Chemical Works, Chicago, Ill. Phosphorus production. 1,728,948; Sept. 24.
- Waggener, Paul N., Memphis, Tenn. Fingerprint apparatus. 1,719,950; July 9.
- Waggoner, William H., Kansas City, Mo. Linoleum jacket. 1,736,383; Nov. 19.
- Waggonfabrik Aktiengesellschaft. (See Kopf, Theodor, assignor.)
- Waglie, Carl, assignor of one-half to C. F. W. Schroeder, Baltimore, Md. Electrode holder for electric arc welders. 1,730,397; Oct. 8.
- Wagner, Albert, Ludwigshafen-on-the-Rhine; Justizrat Dr. Moritz Meyer, administrator of the estate in bankruptcy of said Wagner, assignor to Deuba Deutsche Bauten-trocknungs Aktiengesellschaft m. b. H., Hanover, Germany. Drying moist rooms, buildings, and the like. 1,706,199; Mar. 19.
- Wagner, Albert, Gross-Zschachwitz, near Dresden, assignor to the firm Fr. Kuttner, Pirna, Saxony, Germany. Producing fine fiber artificial silk. 1,706,717; Mar. 26.
- Wagner, Albert G., assignor to The Wemb Company, Cincinnati, Ohio. Auxiliary air valve for internal-combustion engines. 1,715,440; June 4.
- Wagner, Albert G., assignor to The Wemb Company, Cincinnati, Ohio. Gear-shifting mechanism. 1,715,441; June 4.
- Wagner, Andrew, Union City, N. J., assignor to Ferguson Bros. Mfg. Co., Hoboken, N. J. Folding chair. 1,724,055; Aug. 13.
- Wagner, Charles B., jr., Burlington, Wis. Rest for legs of stoves and other articles of furniture. 1,730,698; Oct. 8.
- Wagner, Charles F., Pittsburgh, and R. D. Evans and S. B. Griscom, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Regulator system. 1,736,471; Nov. 19.
- Wagner, Charles, Grantwood, and A. Hormel, Jersey City, N. J., assignors to Charles Wagner Litho. Machinery Company, Inc. Transfer element and apparatus for varnishing, painting, or printing. 1,698,747; Jan. 15.
- Wagner, Charles, Grantwood, and A. Hormel, Jersey City, N. J., assignors to Charles Wagner Litho. Machinery Company, Inc. Drying apparatus for plates of metal and other material. 1,736,866; Nov. 26.
- Wagner, Charles H., Washington, D. C., assignor to Kochering Company, Milwaukee, Wis. Automatic skip-controlling mechanism. 1,732,198; Oct. 15.
- Wagner, Charles J., Cousins, N. Mex. Aeroplane. 1,718,617; June 25.
- Wagner, Charles Litho. Machinery Company. (See Wagner, C., and Hormel, assignors.)
- Wagner, David H., Detroit, Mich. Vibratory hair cutter. 1,705,511; Mar. 19.
- Wagner Electric Corporation. (See Weichsel, Hans, assignor.)
- Wagner, Emanuel E., Lamar, Mo. Projecting machine. 1,729,304; Sept. 24.
- Wagner, Ernest F., Paris, France, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,707,241; Apr. 2.
- Wagner, Ernst, assignor to Maschinenfabrik Benninger A.-G., Uzwil, Switzerland. Fabric-expanding device. 1,719,149; July 2.
- Wagner, Frank, Los Angeles, Calif., assignor to Pittsburgh Valve and Fittings Company, Barberton, Ohio. Lighting fixture. 1,707,829; Apr. 2.
- Wagner, Fred W., Bradford, Pa. Attachment for treads for auto chassis. 1,703,255; Feb. 26.
- Wagner, Georg, Monsey, N. Y. Porcelain teeth and making the same. 1,719,577; July 2.
- Wagner, George E., St. Etienne, assignor to Societe Anonyme Francaise dite: Societe Anonyme d'Exploitation des Brevets Geogevitch et Wageor pour des Marteaux Rotatifs Margeowa, St.-Etienne, Loire, France. Rotary hammer. 1,707,887; Apr. 2.
- Wagner, George P., New York, N. Y., assignor, by mesne assignments, to Air Line Transportation Company, Philadelphia, Pa. Lift mechanism for aircraft. 1,737,035; Nov. 26.
- Wagner, Günther. (See Beindorff, Kurt, assignor.)
- Wagner, Henry, Chicago, Ill. Sewer check. 1,732,319; Oct. 22.
- Wagner, Henry N., Los Angeles, Calif. Electric sign flasher. 1,731,513; Oct. 15.
- Wagner, Henry, assignor of one-half to E. A. Campbell, Falls City, Oreg. Gardening tool. 1,739,489; Dec. 10.
- Wagner, Hermann, Höchst-on-the-Main, Germany, assignor by mesne assignments, to General Aniline Works, Inc., New York, N. Y. Manufacture of azo dyestuffs derived from 2-hydroxynaphthalene-3-carboxylic-acid-arylamides. Re17,364; July 2.
- Wagner, Hermann, Soden-on-the-Taunus, R. Brune, Höchst-on-the-Main, M. Hessenland, Koenigsberg, and E. Hona, F. Müller, and H. Heyna, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dye and producing the same. 1,730,699; Oct. 8.
- Wagner, Hermann, Soden-on-the-Taunus, and H. Eichwede and E. Fischer, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dyeing mixed textile goods made of wool and silk fibers. 1,739,879; Dec. 17.
- Wagner, Hermann, Soden-on-the-Taunus, and O. Sohst, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuffs of the 2-hydroxynaphthalene-3-carboxylic acid arylamide series. 1,698,898; Jan. 15.
- Wagner, Hermann, Bad Soden-on-the-Taunus, and B. Vossen, Höchst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Yellow monoazo dyestuffs fast to light and preparing them. 1,701,248; Feb. 5.
- Wagner, Hermann, Bad Soden-on-the-Taunus, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Water-soluble dinitroarylamino-diarylamines and preparing same. 1,709,292; Apr. 16.
- Wagner, Hermann, Bad Soden-on-the-Taunus, and E. Fischer, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Yellow monoazo dyestuff. 1,730,179; Oct. 1.
- Wagner, Hermann, Bad Soden-on-the-Taunus, and E. Fischer, Höchst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs and preparing them. 1,731,643; Oct. 15.
- Wagner, Hugh M., Chattanooga, Tenn. Gasoline-vending machine. 1,700,753; Feb. 5.
- Wagner, Hugh M., Chattanooga, Tenn. Coin-controlled mechanism. 1,704,930; Mar. 12.
- Wagner, John O., Chicago, Ill. Screen construction. 1,739,811; Dec. 17.
- Wagner, Joshua. (See Schroeder, L. H., and Wagner.)
- Wagner, Julius, New York, N. Y. Adjustment and compensating device. 1,703,218; Feb. 26.
- Wagner, Ludwig W., San Antonio, Tex., assignor to A. B. Dick Company, Chicago, Ill. Stencil. 1,733,438; Oct. 29.
- Wagner, Michael, assignor of one-half to The McCallum Company, Incorporated, Pittsburgh, Pa. Pulverizing machine. 1,731,956; Oct. 15.
- Wagner, Myron E., Tulsa, Okla. Air gas lift. 1,719,249; July 2.
- Wagner, Norman P., Tamaqua, Pa. Chain conveyer. 1,706,268; Mar. 19.
- Wagner, Otto H., Okanagan, Wash. Ship-propelling mechanism. 1,705,430; Mar. 12.
- Wagner, Ralph W., H. S. Williams, and L. M. Wells, assignors to R. H. Van Sant, Chicago, Ill. Vibratory toothbrush. 1,734,281; Nov. 5.
- Wagner, Richard R. (See Schwarzkopf, A. R., and Wagner.)
- Wagner, Robert E., and W. E. Laird, Pittsfield, Mass., assignors to General Electric Company. Line welding. 1,738,465; Dec. 3.
- Wagner, Rolland M. (See Lucan, William H., assignor.)
- Wagner, Theodore B., Brooklyn, N. Y. Organic phosphate and making same. 1,716,286; June 4.
- Wagner, Vernon G., Mount Union, Pa. Ignition device for internal-combustion engines. 1,700,554; Jan. 29.
- Wagner, Walter, Berwyn, assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Filter construction. 1,698,079; Jan. 8.
- Wagstaff, Albert, Frankfurt, assignor to International Heater Company, Utica, N. Y. Warm-air-furnace radiator. 1,699,319; Jan. 15.
- Wagstaff, Richard A., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Smelting furnace and method of smelting. 1,729,408; Sept. 24.
- Wagstaff, Walter S., Miami, Fla. Supplemental vision apparatus. 1,700,754; Feb. 5.
- Wahl, André, Engblen, and R. Lantz, assignors of one-half to Societe Anonyme des Matieres Colorantes et Produits Chimiques de Saint-Denis, Paris, France. Manufacture of naphthoquinone derivatives. 1,708,001; Apr. 9.
- Wahl Company, The. (See Funk, Charles J., assignor.)
- Wahl Company, The. (See Harris, Mark, assignor.)
- Wahl Company, The. (See Johnson, Herbert W., assignor.)
- Wahl Company, The. (See Nelson, Anton R., assignor.)
- Wahl Company, The. (See Wahl, John C., assignor.)
- Wahl, John, Rosedale, and O. Melzer, Hollis, assignors to A. Schrader's Son, Inc., New York, N. Y. Pneumatic-tube tool. 1,731,690; Oct. 15.
- Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Pencil clip. 1,714,744; May 28.
- Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Pencil. 1,716,253; June 4.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Mechanical pencil. 1,729,142; Sept. 24.
- Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Fountain-pen assembling. 1,735,224; Nov. 12.



- Wahl, Leo J., assignor to Wahl Clipper Corporation. Sterling, Ill. Agitator. 1,704,025; Mar. 5.
- Wahl, Leo J., assignor to Wahl Clipper Corporation, Sterling, Ill. Agitator. 1,704,026; Mar. 5.
- Wahl, Leo J., assignor to Wahl Clipper Corporation, Sterling, Ill. Agitator. 1,705,162; Mar. 12.
- Wahl, William, Hammond, Ind. Emergency-valve assembly. 1,704,310; Mar. 5.
- Wahlberg, Gustav A. V. (See Wahlberg, Karl A. and G. A. V.)
- Wahlberg, Karl A. and G. A. V., Hesselby, Villastad, Sweden. Handsaw. 1,738,336; Dec. 3.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Testing device. 1,699,771; Jan. 22.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combination clamp. 1,699,772; Jan. 22.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Conductor clamp. 1,705,693; Mar. 19.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-potential arcing device. 1,709,697; Apr. 16.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,730,102; Oct. 1.
- Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,730,180; Oct. 1.
- Wahlberg, Nils E. (See Tryman, B. W., and Wahlberg.)
- Wahlberg, Nils E., assignor to Nash Motors Company, Kenosha, Wis. Brake mechanism for steering wheels. 1,721,721; July 23.
- Wahlstrom, Arvid J., Boston, Mass. Spinning top. 1,720,498; July 9.
- Wahr, Harry F., West Homestead, Pa. Pickling machine. 1,706,718; Mar. 26.
- Wailles Dove-Herniston Corporation. (See Cook, H. M., and Rogers, assignors.)
- Wainwright, Charles, Erie, Pa. Signal whistle. 1,723,902; Aug. 6.
- Wainwright, Charles, Erie, Pa. Speed and pressure governor. 1,733,844; Oct. 29.
- Wait, Henry H., Anderson, Ind. Turbine. 1,718,768; June 25.
- Wait, Henry H., Chesterton, Ind. Compound turbine. 1,722,721; July 30.
- Wait, Henry H., Chesterton, Ind. Armature construction. 1,741,262; Dec. 31.
- Wait, Justin F., New York, N. Y., assignor to National Aniline & Chemical Co., Inc. Apparatus for heating curved surfaces. 1,704,413; Mar. 5.
- Wait, Justin F., New York, N. Y., assignor to National Aniline & Chemical Co., Inc. Dehydrating caustic. 1,734,699; Nov. 5.
- Wait, William, Jr., Garden City, N. Y., assignor to Curtiss Aeroplane & Motor Company, Inc. Exhaust muffler for radial-cylinder engines of aircraft. 1,707,830; Apr. 2.
- Waite Carpet Company. (See Brandt, Stella, assignor.)
- Waite Carpet Company. (See Reinke, Armin A., assignor.)
- Waite, Charles C. (See Macdonald, A. S., Waite, and Huggins.)
- Waite, Frank H., and G. W. Davey, Long Island City, N. Y. Furnace-wall construction. 1,701,287; Feb. 5.
- Waite, Fred, Otley, England. Printing machine. 1,714,061; May 21.
- Waite, Griffin G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Remote metering device. 1,707,291; Apr. 2.
- Waite, Griffin G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Remote metering system. 1,715,728; June 4.
- Waite, Guy B., New York, N. Y. Lifting jack. 1,701,134; Feb. 5.
- Waite, Ralph B., Springville, N. Y., assignor to The Antidolor Mfg. Co. Inc. Medicament container. 1,740,717; Dec. 24.
- Waite, Raymond A. (See Larson, D. C., Lautrup, and Waite.)
- Waite, Raymond A., Yonkers, N. Y., and F. L. Morris, Ridgewood, assignors to Otis Elevator Company, Jersey City, N. J. Control system for elevators. 1,709,102; Apr. 16.
- Waite, Raymond A., Yonkers, N. Y., and F. L. Morris, Ridgewood, assignors to Otis Elevator Company, Jersey City, N. J. Switching system. 1,711,625; May 7.
- Waite, Raymond A., and G. W. Lautrup, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Electric elevator system. 1,725,772; Aug. 27.
- Waikuk, Vincent, Baltimore, Md., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., New York, N. Y. Counting mechanism. 1,741,387; Dec. 31.
- Waltz, Charles A., Rouseville, Pa. Pump. 1,704,776; Mar. 12.
- Wakefield, Albert F., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Ceiling canopy and extension. 1,730,255; Oct. 1.
- Wakefield All-Steel Wrench Company. (See Fleming, Joseph P., assignor.)
- Wakefield, F. W., Brass Company, The. (See Wakefield, Albert F., assignor.)
- Wakefield, Frank E., assignor to Illinois Watch Case Company, Elgin, Ill. Ash receiver. 1,720,309; July 9.
- Wakefield, Frank E., assignor to Illinois Watch Case Company, Elgin, Ill. Vanity case. 1,736,025; Nov. 19.
- Wakefield, James, Cockermouth, England. Dyeing of vat colors on fabrics. 1,733,439; Oct. 29.
- Wakefield, Richard E. B., Chester, Pa. Sound reproducer. 1,716,909; June 11.
- Wakefield, Richard N., et al. (See Fraser, Fred W., assignor.)
- Wakefield, Walter H. (See Unwin, K. J., and Wakefield.)
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Needle motion for Axminster looms. 1,724,328; Aug. 13.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multicolor-weft-replenishing mechanism. 1,730,024; Oct. 1.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Combined filling fork and weft-replenishing mechanism. 1,737,691; Dec. 3.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing loom with regularly-moving transferer. 1,737,692; Dec. 3.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom to weave terry piles of varying heights. 1,739,192; Dec. 10.
- Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread clearer for weft-replenishing looms. 1,741,263; Dec. 31.
- Wakeland, Claude S., Wayland, Ky. Switch. 1,736,683; Nov. 19.
- Wakeman, John E., Shreveport, assignor of one-fourth to A. B. Liddell, Shreveport, and twenty-four per cent to J. P. Burgess and J. E. Godfrey, Monroe, La. Dowel driver and setter. 1,717,479; June 18.
- Walaske, Roy T., Milwaukee, Wis. Smoker's tray. Des. 78,423; Apr. 30.
- Walasky, Lewis, and P. Mrocka, Mayfield, Pa. Coupling-lock. 1,717,129; June 11.
- Walbridge, Earl G., Erie, Pa. Burner. 1,730,796; Oct. 8.
- Walch, Ceylon C., Syracuse, N. Y. Garment supporter. 1,741,212; Dec. 31.
- Walcher, Frederick, Chicago, Ill. Swimming board or life preserver. 1,706,090; Mar. 19.
- Walcott, Frank B. (See McFarland, John H., assignor.)
- Walcott, Joseph H., Salem, assignor, by mesne assignments, to Harding-Walcott Company, Boston, Mass. Instrument for measuring the mean thickness of sheet materials. 1,707,776; Apr. 2.
- Wald Manufacturing Company. (See Pawsat, Ewald F., assignor.)
- Walden, Alvin E. (See Adcock, M. E., and Walden.)
- Walden, Don O., Fremont, Ohio, assignor to National Carbon Company, Incorporated. Primary cell. 1,720,808; July 16.
- Walden, John W., Abilene, Tex. Straining funnel. 1,734,841; Nov. 5.
- Waldener, Erik W., Duvbo, near Sundbyberg, Sweden. Rotary refrigerating machine. 1,725,383; Aug. 20.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,699,642; Jan. 22.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriter desk. 1,727,000; Sept. 3.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machines. 1,732,920; Oct. 22.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,740,051; Dec. 17.
- Waldie, Richard. (See Ford, S. A., and Waldie.)
- Waldie, Thomas G., Beverly, Mass. Facsimile telegraphy. 1,700,915; Feb. 5.
- Waldo, Edward W., Detroit, Mich. Spindle assembly. 1,714,286; May 21.
- Waldon, Charles D., S. J. Brooks, and R. T. Robinson, Toronto, Ontario, Canada. Heater. 1,701,199; Feb. 5.
- Waldorf Paper Products Company. (See Bache, Edmund, assignor.)
- Waldorf Paper Products Company. (See Boeye, Paul F., assignor.)
- Waldorf Paper Products Company. (See Sandberg, Nels, assignor.)
- Waldorf Paper Products Company. (See Schilling, P. A., and Boeye, assignors.)
- Waldron, Benjamin F., Duncan, Okla. Air lift. 1,700,916; Feb. 5.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, Liverpool, England. Production of ground and polished plates of glass and apparatus therefor. 1,729,498; Sept. 24.
- Waldron, John, Corporation. (See Dalton, George A., assignor.)
- Waldron, Mary E., et al. (See Eldridge, Hillary, assignor.)
- Waldron, William G. (See Ewer, E. C., and Waldron.)
- Waldron, William R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Anthracene dye and making same. 1,735,941; Nov. 19.
- Waldy, Gertrude, Los Angeles, Calif. Garment hanger. 1,734,549; Nov. 5.



- Wales, Leonard A., New York, N. Y. Construction of vehicle bodies. 1,719,150; July 2.
- Wales, Rowland T., New Rochelle, N. Y. Ceiling mold. 1,707,420; Apr. 2.
- Waley, Ronald H. S., et al., executors. (See Beddington, Guy C.)
- Walgren, Reuben. (See Jackson, M. M., Walgren, and Britton.)
- Walinsky, Ossip J., New York, N. Y. Hand bag. 1,739,698; Dec. 17.
- Walk, Benjamin F., Ardmore, Okla. Hat hanger. 1,720,109; July 9.
- Walker, Alfred S., New Rochelle, N. Y. Indicator or counter. 1,704,230; Mar. 5.
- Walker, Arthur W., Malden, Mass. Operating device for doors. 1,721,578; July 23.
- Walker Body Company. (See Wells, George W., assignor.)
- Walker Brothers. (See Ashley, Edward E., jr., assignor.)
- Walker, Charles M., assignor of one-half to R. L. McElroy and J. E. Shepherd, Charlottesville, Va. Making composite castings. 1,729,848; Oct. 1.
- Walker, Charles W., assignor to Walker-Wallace Limited, Toronto, Ontario, Canada. Lowering device. 1,702,554; Feb. 19.
- Walker, Charles W., Toronto, Ontario, assignor to Walker-Wallace Limited, Toronto, Canada. Bearing for pasteurizers. 1,715,483; Jun. 4.
- Walker, Cranford P. (See Bouton, E. M., and Walker.)
- Walker, Cranford P., assignor to Llewellyn Iron Works, Los Angeles, Calif. Variable-voltage system of speed control for motors. 1,735,364; Nov. 12.
- Walker, David W., Centralia, Mo. Ridge cutter. 1,711,071; Apr. 30.
- Walker & Davis, Inc. (See Walker, N., and Davis, assignors.)
- Walker Dishwasher Corporation. (See Walker, Forrest A., assignor.)
- Walker, Edward, Grantwood, N. J. Spraying apparatus. 1,707,696; Apr. 2.
- Walker, Edward C., assignor to National Lead Company, St. Louis, Mo. Making white lead. 1,732,490; Oct. 22.
- Walker, Edward E., et al. (See Cox, John W., assignor.)
- Walker, Edward E., et al. (See Taylor, Harry S., assignor.)
- Walker, Edwin R., and D. B. Henley, Yakima, Wash. Carrier for running boards. 1,737,901; Dec. 3.
- Walker, Elmer, Los Angeles, Calif. Mitten. 1,714,648; May 28.
- Walker, Elmer P., Toronto, Ontario, Canada. Shipping dress protector. 1,725,116; Aug. 20.
- Walker, Emery L., Wauwatosa, assignor to Kieckhefer Container Co., Milwaukee, Wis. Sealing machine for boxes. 1,736,180; Nov. 19.
- Walker, Ernest A. (See Bath, J., and Walker.)
- Walker, Ernest A., and H. M. Allison, assignors, by mesne assignments, to John Bath, Worcester, Mass. Tap for cutting square and acme threads. 1,725,233; Aug. 20.
- Walker, Forrest A., assignor to Walker Dishwasher Corporation, Syracuse, N. Y. Mechanical dishwasher. 1,741,173; Dec. 31.
- Walker, Frank L., et al. (See Lingham, G. N., and Williams, assignors.)
- Walker, George, Newton Center, Mass. Distance-measuring apparatus. 1,735,623; Nov. 12.
- Walker, George, Newton Center, Mass. Unidirectional driving mechanism. 1,736,064; Nov. 19.
- Walker, George, Newton Center, Mass. Direction indicator and recorder for ships, etc. 1,738,807; Dec. 10.
- Walker, George, Newton Center, Mass. Direction recorder. 1,738,808; Dec. 10.
- Walker, George L., assignor to Air Reduction Company, Incorporated, New York, N. Y. Billet-gouging tip. 1,726,327; Aug. 27.
- Walker, Gilbert H., et al. (See Walker, Horace, assignor.)
- Walker, Harry L. (See Sullivan, F. W., jr., McGill, and Walker.)
- Walker, Henry B., assignor to The Fairfield Engineering Company, Marion, Ohio. Conveyor apparatus. 1,731,914; Oct. 15.
- Walker, Henry B., assignor to The Fairfield Engineering Company, Marion, Ohio. Material-handling apparatus. 1,735,365; Nov. 12.
- Walker, Herman G., Oakland, Calif. Window ventilator frame. 1,722,722; July 30.
- Walker, Hiram, East Cleveland, assignor to Chandler Motor Car Company, Cleveland, Ohio. Vibration-damping fly-wheel. 1,701,518; Feb. 12.
- Walker, Hiram, assignor to Chandler Motor Car Company, Cleveland, Ohio. Vibration-damping mechanism. 1,701,519; Feb. 12.
- Walker, Horace, Leeds, England, assignor of one-half to G. H. Walker and one-half to M. H. Epstein and E. Marks Toronto, Canada. Manufacture of cellulose. 1,709,824; Apr. 16.
- Walker, Howard G., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Coated core. 1,734,700; Nov. 5.
- Walker, Hubert, Royal Oak, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Vehicle frame sill. 1,698,179; Jan. 8.
- Walker, Ida B. (See Gardner, Florida, assignor.)
- Walker, Ira R., Shreveport, La., assignor to R. Hoe & Co., Inc., New York, N. Y. Circular saw. 1,736,560; Nov. 19.
- Walker, J. C., et al. (See Duffy, Thomas I., assignor.)
- Walker, Jack L., Dallas, Tex. Recording sound waves. 1,718,618; June 25.
- Walker, James B., New York, N. Y. Window clarifier. 1,720,532; July 9.
- Walker, James P., Maywood, assignor to Solar-Sturges Mfg. Co., Melrose Park, Ill. Metallic container. 1,718,322; June 25.
- Walker, James W., assignor to Marshall-Wells Company, Duluth, Minn. Vehicle tire. Des. 80,206; Dec. 24.
- Walker, John, Boston, Mass. Machine for treating chocolate masses or other materials. 1,697,441; Jan. 1.
- Walker, John, Macomb, Ill. Window ventilator. 1,725,688; Aug. 20.
- Walker, John, jr., Melrose Park, Pa., assignor to Walker Manufacturing Company. Heddle frame. 1,701,520; Feb. 12.
- Walker, John P., Hammond, Ind. Refining lead. 1,731,365; Oct. 15.
- Walker, Joseph, Canonsburg, Pa. Vehicle tire. 1,707,104; Mar. 26.
- Walker, Lillian G., Newton, Mass. Fountain paintbrush. 1,733,144; Oct. 29.
- Walker, Lloyd P., Belmont, Mass. Crushing machine. 1,712,369; May 7.
- Walker, Lloyd P., Belmont, Mass. Crushing machine. 1,738,161; Dec. 3.
- Walker, Madame C. J., Manufacturing Company, The. (See Joyner, Marjorie S., assignor.)
- Walker Manufacturing Company. (See Jakob, Victor, assignor.)
- Walker Manufacturing Company. (See Johnson, Alvin L., assignor.)
- Walker Manufacturing Company. (See Walker, John, jr., assignor.)
- Walker Manufacturing Company. (See Walker, Warren H., assignor.)
- Walker Manufacturing Company. (See Walker, W. H., Mizer, and Dearsley, assignors.)
- Walker, Noah, and E. H. Davis, assignors to Walker & Davis, Inc., Philadelphia, Pa. Machine for treating skein yarn. 1,730,025; Oct. 1.
- Walker, Norman, assignor to Harrison Radiator Corporation, Lockport, N. Y. Radiator. 1,735,942; Nov. 19.
- Walker, O. S., Co. (See Tracy, Howard E., assignor.)
- Walker, Raymond L., Boscobel, Wis. Saw frame. 1,700,423; Jan. 29.
- Walker, Richard A., Skidmore, Mo. Automatic cut-off valve mechanism. 1,723,102; Aug. 6.
- Walker, Robert E., assignor to Turner Glass Company, Terre Haute, Ind. Bottle. Des. 77,716; Feb. 12.
- Walker, Robert J. (See Bernon, Louis M., assignor.)
- Walker, Robert J., Washington, D. C. Electric furnace. 1,706,010; Mar. 19.
- Walker Signal & Equipment Corporation. (See Walker, William L., assignor.)
- Walker, Tom R., Alexandria, La. Box or blinder. 1,726,968; Sept. 3.
- Walker, Victor D., and P. Kaplan, Kokomo, Ind. Expansion rail joint. 1,710,557; Apr. 23.
- Walker-Wallace Limited. (See Walker, Charles W., assignor.)
- Walker, Warren H., assignor to Walker Manufacturing Company, Racine, Wis. Lifting-jack handle and tire-lug wrench. 1,721,756; July 23.
- Walker, Warren H., assignor to Walker Manufacturing Company, Racine, Wis. Combined jack handle and tire-lug wrench. 1,722,723; July 30.
- Walker, Warren H., J. J. Mizer, and I. E. Dearsley, assignors to Walker Manufacturing Company, Racine, Wis. Lifting jack. Re17,219; Feb. 19.
- Walker, Warren R., New Dorp, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Circuit connector. 1,721,757; July 23.
- Walker, Willard R., Syracuse, N. Y. Mechanical dishwasher. 1,724,383; Aug. 13.
- Walker, William, Fonda, Iowa. Educational computing device. 1,720,499; July 9.
- Walker, William D., Sacramento, Calif. Dice-throwing machine. 1,702,286; Feb. 19.
- Walker, William L., New York, N. Y. Hose coupling. 1,701,829; Feb. 12.
- Walker, William L., New York, N. Y., assignor to Walker Signal & Equipment Corporation. Finding the direction of sound. 1,713,063; May 14.
- Walker, William L., New York, N. Y., assignor to Walker Signal & Equipment Corporation. Sound-receiving device for submarine signaling. 1,715,395; June 4.
- Walker, William L., New York, N. Y., assignor to Walker Signal & Equipment Corporation. Apparatus for finding the direction of sound. 1,719,951; July 9.
- Walker, William M., Gueda Springs, Kans. Reamer drill for well boring. 1,726,598; Sept. 3.
- Walker, William W., Philadelphia, Pa., assignor, by mesne assignments, to American La France and Foamite Corporation. Fire extinguisher. 1,709,382; Apr. 16.
- Wall, George, Urnston, England, assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,702,457; Feb. 19.
- Wall, John R., Americus, Ga. Sign. 1,713,632; May 21.
- Wall & Ochs, Incorporated. (See Wall, William L., assignor.)
- Wall, William H., assignor to A. Wander Limited, London, England. Machine for wrapping canisters with lid-sealing-tape, wrapping material, and the like. 1,700,005; Jan. 22.



- Wall, William L., assignor to Wall & Ochs, Incorporated, Philadelphia, Pa. Ophthalmic mounting. 1,710,680; Apr. 30.
- Wall, William L., assignor to Wall & Ochs, Incorporated, Philadelphia, Pa. Eye-testing apparatus. 1,741,213; Dec. 31.
- Wallace, Albert J., Algonac, Mich. Fish scaler. 1,726,326; Aug. 27.
- Wallace, Allen, Moorestown, N. J. Adjustable gib. 1,725,725; Aug. 20.
- Wallace, Archibald L., assignor to Metal Hose & Tubing Co. Inc., Brooklyn, N. Y. Quick-acting coupling. 1,738,216; Dec. 3.
- Wallace, Benjamin F., Brooklyn, N. Y. Compound for use in casting metals. 1,717,820; June 18.
- Wallace, Benjamin F., Brooklyn, N. Y. Paris green insecticide. 1,738,089; Dec. 3.
- Wallace, Benjamin F., Brooklyn, N. Y. Paris green insecticide. 1,738,090; Dec. 3.
- Wallace, Bert A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,706,640 Mar. 26.
- Wallace, Bert A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,734,355; Nov. 5.
- Wallace, Bruce H., assignor of one-half to F. D. Ferris, Cleveland, Ohio. Sign apparatus. 1,728,317; Sept. 17.
- Wallace, Edward P. (See Beardsley, C. E., and Wallace.)
- Wallace, Edwin C., Newton, Mass. Penetration method of road construction. 1,740,718; Dec. 24.
- Wallace, Frank H., and W. H. Compton; said Compton assignor to C. Callas, Newry, S. C. Loom head gear and pulley. 1,700,006; Jan. 22.
- Wallace, Frank R., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Chock and starter for molding machines. 1,736,513; Nov. 19.
- Wallace, Frank R., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding machine. 1,736,514; Nov. 19.
- Wallace, George W., San Francisco, Calif. Apparatus for treating oils. 1,714,198; May 21.
- Wallace, George W., San Francisco, Calif., assignor to The S. E. Company. Carbonizing apparatus. 1,728,582; Sept. 17.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,703,128; Feb. 26.
- Wallace, Herbert A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electromagnetic device. 1,716,808; June 11.
- Wallace, Jeffrey J., Amite, La., assignor to Gullett Gin Company. Automatic counterbalance for cotton-press side doors. 1,728,089; Sept. 10.
- Wallace, John E., and H. B. Carlson, Tampa, Tex. Adjustable spooling device. 1,709,506; Apr. 16.
- Wallace, John F., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Air spring. 1,718,323; June 25.
- Wallace, Joseph H., Brooklyn, assignor to Pine Waste Products, Inc., New York, N. Y. Wood-pulp material. 1,710,752; Apr. 30.
- Wallace, Lawrence A., Salt Lake City, Utah. Amusement apparatus. 1,697,701; Jan. 1.
- Wallace, R., & Sons Mfg. Co. (See Clulee, Harry I., assignor.)
- Wallace, R., & Sons Mfg. Co. (See Griswold, Darwin G., assignor.)
- Wallace, R., & Sons Mfg. Co. (See Leete, Murray B., assignor.)
- Wallace, R., & Sons Mfg. Co. (See Martha, Oscar W., assignor.)
- Wallace, R., & Sons Mfg. Co. (See Warren, William S., assignor.)
- Wallace, Ralph W., Johnstown, Pa. Toilet fixture and support. 1,730,547; Oct. 8.
- Wallace, Ralph W., Johnstown, Pa. Plumbing fixture. 1,739,621; Dec. 17.
- Wallace, Ralph W., Johnstown, Pa. Toilet cabinet. 1,739,622; Dec. 17.
- Wallace, Robert Jr., Castle Douglas, Scotland. Pulsating apparatus for milking machines. 1,709,758; Apr. 16.
- Wallace, Robert H., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Conduit. 1,723,986; Aug. 6.
- Wallace, Thomas, deceased, by D. J. Cosgro, Cohoes, N. Y., and The Chatham and Phenix National Bank of the City of New York, executors, assignors, by mesne assignments, to M. C. Gennert, South Plainfield, N. J. Film holder. 1,723,590; Aug. 6.
- Wallace, William H., Detroit, Mich. Vehicle spring. 1,730,700; Oct. 8.
- Wallace, William S., et al., trustees. (See Davis, Kenneth, assignor.)
- Wallace, William W., Chicago, Ill., assignor to New York Brick Handling Corporation, New York, N. Y. Automatic pallet-feeding machine. 1,716,349; June 4.
- Wallden, Osborne, Easton, Pa., assignor of one-half to W. E. Matthews, Washington, N. J. Piston ring. 1,735,366; Nov. 12.
- Walle, Ludvig S., Scotia, N. Y., assignor to General Electric Company. Switch-operating mechanism. 1,723,103; Aug. 6.
- Walle, Ludvig S., Scotia, and H. W. Brown, Schenectady, N. Y., assignors to General Electric Company. Time-limit device. 1,724,863; Aug. 13.
- Wallenthin, Walfrid, assignor to The Associated Attleboro Manufacturers, Inc., Attleboro, Mass. Strap-end hook. 1,715,153; May 28.
- Waller, Alfred E., Bronxville, N. Y., assignor to Ward Leonard Electric Company. Battery-charging apparatus. 1,732,346; Oct. 22.
- Waller, Einar. (See Taub, A., and Waller.)
- Waller, John A., Los Angeles, Calif., assignor to The Stanley Works, New Britain, Conn. Mortising tool. 1,713,727; May 21.
- Waller, Lee R., Montreal, Quebec, Canada, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Party-line telephone system. 1,700,458; Jan. 29.
- Waller, Philip H., Sterling, Colo., assignor, by mesne assignments, to Reliance Storage and Warehouse Company, Detroit, Mich. Washing machine. Re17,318; June 4.
- Waller, Warren E., Charles City, Iowa. Hen's nest and nest rack. 1,740,323; Dec. 17.
- Wallerstein Company. (See Wallerstein, Leo, assignor.)
- Wallerstein, Leo, assignor to Wallerstein Company, Inc., New York, N. Y. Cereal extract and making same. 1,737,279; Nov. 26.
- Wallerstein, Milton H., Paducah, Ky. Display fixture. 1,716,807; June 11.
- Wallgren, August G. F. (See Ugglia, W. R., and Wallgren.)
- Wallick, Willis L., Alexandria, Ind. Road drag. 1,739,022; Dec. 10.
- Wallin, Gustaf A., Brooklyn, N. Y., and S. Buckley, jr., Philadelphia, Pa., assignors to A. Kimball Company, New York, N. Y. Marking ticket. 1,720,809; July 16.
- Walling, Clyde E., Lakewood, Ohio. Metal-working machine. 1,728,380; Sept. 17.
- Walling, Ralph C., Redelm, S. Dak. Corn-drying rack. 1,718,991; July 2.
- Walling & Walling. (See King, John P., assignor.)
- Wallis, Barnes N., assignor to Airship Guarantee Company, Limited, Westminster, London, England. Lighter-than-air aircraft. 1,713,574; May 21.
- Wallis, Barnes N., and C. D. Burney, assignors to Airship Guarantee Company, Limited, Westminster, England. Rigid airship. 1,724,440; Aug. 13.
- Wallis, Charles W., Toronto, Ontario, Canada. Fuse block and plug therefor. 1,721,098; July 16.
- Wallis, Cyril T., assignor to North East Electric Company, Rochester, N. Y. Speedometer. 1,697,580; Jan. 1.
- Wallis-Lispenard Cotton Harvester Co. Inc. (See Lispenard, G., and Hensley, assignors.)
- Walliser, Robert E., Chicago, Ill. Fringe tassel and making same. 1,700,523; Jan. 29.
- Walloch, Albert F. (See Herget, J. B., and Walloch.)
- Walloch, Frank A. (See Monteith, C. N., and Walloch.)
- Walls, James E. (See Harley, Bertron G., assignor.)
- Walls, James E. (See Willis, Wilfred E., assignor.)
- Walls Limited. (See Hazlewood, George W., assignor.)
- Wallstrom, George P., assignor to Lane Manufacturing Company, Montpelier, Vt. Sawing with abrasives. 1,728,155; Sept. 10.
- Wallstrom, Ludwig, Lima, Peru. Burner support and air preheater. 1,701,249; Feb. 5.
- Walouke, Charles A., Cleveland, Ohio. Air distributor. 1,714,649; May 28.
- Walper, Curry O., Detroit, Mich., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Wall and ceiling construction. 1,709,047; Apr. 16.
- Walper, Curry O., Detroit, Mich., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Wall board. 1,727,420; Sept. 10.
- Walrond, Henry E. (See Cox, Cary S., assignor.)
- Walsh, Burton T., Chicago, Ill. Piston ring. 1,720,583; July 9.
- Walsh, Edward F., and W. E. Foust, Marion, Ind. Automatic dumping body for motor vehicles. 1,712,534; May 14.
- Walsh, Edward F., and W. E. Foust, Marion, Ind. Automatic dumping body for motor vehicles. 1,735,065; Nov. 12.
- Walsh, Edward F., and W. E. Foust, Marion, Ind. Automatic dumping body for motor vehicles. 1,735,066; Nov. 12.
- Walsh, Harry A., Washington, D. C. Magnifying-glass support. 1,723,262; Aug. 6.
- Walsh, John B., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism. 1,697,742; Jan. 1.
- Walsh, John D., New York, N. Y., and L. C. Antrim, Jersey City, N. J.; said Antrim assignor to W. F. Walsh, Boston, Mass. Manifolding container device. 1,696,990; Jan. 1.
- Walsh, John E., Chicago, Ill. Egg carrier. 1,718,394; June 25.
- Walsh, John E., Chicago, Ill., assignor to Self Locking Schurmann Company. Cushioned egg carton. 1,736,755; Nov. 19.
- Walsh, John E., Chicago, Ill., assignor to Self Locking Schurmann Company. Cushioned carton. 1,736,756; Nov. 19.
- Walsh, Joseph H., Pelham, assignor to Johns-Manville Corporation, New York, N. Y. Drying and carbonizing textile fabrics. 1,714,062; May 21.
- Walsh, Lawrence J., Brooklyn, N. Y. Auxiliary door. 1,715,154; May 28.
- Walsh, Lawrence M., Galesburg, Ill. Combustion-arch hanger. 1,718,671; June 25.



- Walsh, Louis J., Belmont, Mass., assignor to Standard Oil Development Company. Method and apparatus for converting hydrocarbons. 1,725,434; Aug. 20.
- Walsh, Thomas M. (See Carlson, J. W., Walsh, and Slettevold.)
- Walsh, Walter F. (See Walsh, J. D., and Antrim, assignors.)
- Waisoe, Sigurd L., Lyndhurst, N. J., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting machine. 1,714,063; May 21.
- Waisoe, Sigurd L., Lyndhurst, N. J., assignor to Remington Typewriter Company, Iliou, N. Y. Computing machine. 1,738,977; Dec. 10.
- Walstrom, Axel M., Minneapolis, Minn., assignor to Elgin Butter Tub Company, Elgin, Ill. Metal hoop. Re17,423; Sept. 3.
- Walstrom, Axel M., Minneapolis, Minn., assignor to Elgin Butter Tub Company, Elgin, Ill. Stave-finishing machine. 1,717,901; June 18.
- Walstrom, Axel M., Minneapolis, Minn., assignor to Elgin Butter Tub Company, Elgin, Ill. Machine for making metal hoops. 1,719,250; July 2.
- Waltemath, Arthur W., East Chicago, Ind. Milling machine for engine connecting-rod straps. 1,721,579; July 23.
- Walter, Albert U. (See Ober, Leonard, assignor.)
- Walter, Albert U., assignor to Baltimore Valve Corporation, Baltimore, Md. Faucet. 1,734,506; Nov. 5.
- Walter, B., & Co. (See Walter, Frederick B., assignor.)
- Walter, Bruce. (See Siebert, C. T., and Walter.)
- Walter, Chas. (See MacQuarrie, John, assignor.)
- Walter, Charles T., assignor to Swift & Company, Chicago, Ill. Depilating carcasses. 1,721,610; July 23.
- Walter, Earle V., Canton, Ohio. Furring strip. 1,714,411; May 21.
- Walter, Fred C., assignor The Cincinnati Ball Crank Company, Cincinnati, Ohio. Bumper. Des. 78,236; Apr. 9.
- Walter, Frederick B., assignor to B. Walter & Co., Wabash, Ind. Hinge. 1,697,801; Jan. 1.
- Walter, Friedrich. (See Nauwerk, W., and Walter.)
- Walter, George F., Brooklyn, assignor to American Can Company, New York, N. Y. Method and apparatus for forming tearing-strip cans. 1,698,285; Jan. 8.
- Walter, George F., Brooklyn, assignor to American Can Company, New York, N. Y. Method and apparatus for forming an interiorly beaded or looped tearing-strip can. 1,705,843; Mar. 19.
- Walter, George F., Brooklyn, assignor to American Can Company, New York, N. Y. Method and apparatus for forming an interiorly beaded or looped tearing-strip can. 1,705,844; Mar. 19.
- Walter, George F., Brooklyn, assignor to American Can Company, New York, N. Y. Method and apparatus for forming an interiorly beaded or looped tearing strip can. 1,717,590; June 18.
- Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Basket. 1,702,921; Feb. 19.
- Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Fiber-board shipping case. 1,713,682; May 21.
- Walter, Harrison B., assignor, by mesne assignments, to of America, Chicago, Ill. Apparatus for taping boxes. 1,714,532; May 28.
- Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Box. 1,737,280; Nov. 26.
- Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Box. 1,738,744; Dec. 10.
- Walter, Harrison B., assignor to Container Corporation of America, Chicago, Ill. Fiber-board shipping case. 1,741,214; Dec. 31.
- Walter, Horace P., and K. L. Hullsick, Norfolk, Va. Automatic safety gate. 1,700,424; Jan. 29.
- Walter, John W., Huntington Park, Calif. Traffic-signaling device. 1,717,821; June 18.
- Walter, Ralph C., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Rolling mill. 1,709,448; Apr. 16.
- Walter, Raymond A. (See Dake, W. M., and Walter.)
- Walterhouse, Charles, Davison, Mich. Henhouse cleaner. 1,730,398; Oct. 8.
- Walters, Frank, Kidderminster, assignor to Thomas Bond Worth & Sons Limited, Stourport, England. Loom for weaving knotted pile fabrics. 1,737,743; Dec. 3.
- Walters, Herbert, R. A. Hoerman, Detroit, Mich. Radio installation for moving vehicles. 1,732,451; Oct. 22.
- Walters, Philip N., New York, N. Y., assignor to Gaco Corporation, East Greenwich, R. I. Sawing mechanism. 1,710,327; Apr. 23.
- Walter, Philippe, Strasbourg, France. Steam trap. 1,738,809; Dec. 10.
- Walters, Rollo F., Detroit, Mich., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Separable fastener and fastener installation. 1,731,206; Oct. 8.
- Walters, Rollo F., Detroit, Mich., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Upholstery installation and fastener elements for use therewith. 1,740,431; Dec. 17.
- Walters, William A., assignor of one-half to S. L. Cheek, Birmingham, Ala. Apparatus for the manufacture of printers' leads or slugs. 1,702,528; Feb. 19.
- Walshall, Clayton, Douglassville, Tex. Compound extension sweep. 1,717,952; June 18.
- Waltham Watch Company. (See Fitch, Ezra C., assignor.)
- Waltham Watch Company. (See MacNeill, Harris L., assignor.)
- Waltham Watch Company. (See Ohlson, Olof, assignor.)
- Walther, Fritz, Zella-Mehlis, Germany. Automatic pistol. 1,712,411; May 7.
- Walther, Heinrich, Frankfort-on-the-Main, Germany. Machine for attaching soles to lasted shoes. 1,709,293; Apr. 16.
- Walther, Heinrich, Oberrad, near Frankfort-on-the-Main, Germany. Machine for manufacturing boots and shoes. 1,737,484; Nov. 26.
- Walthers, Harry B., Denver, Colo. Headlight control. 1,725,117; Aug. 20.
- Waltman, Homer. (See Rossebo, G. H., and Waltman.)
- Waltner, Albert, Brooklyn, N. Y. Animal trap. 1,740,632; Dec. 24.
- Walton, George P., and R. F. Gardiner Washington, D. C., dedicated by assignment to the Government and the people of the United States of America. Fertilizer material and manufacturing the same. 1,703,504; Feb. 26.
- Walton, Isaac P. (See Butler, Jeremiah, assignor.)
- Walton, John C. (See Ennis, G. P., and Walton.)
- Walton, John E., Norbeck, S. Dak. Handle connection. 1,716,254; June 4.
- Walton, John W., Rockdale, assignor to Tennessee Products Corporation, Nashville, Tenn. Gas extractor. 1,729,973; Oct. 1.
- Walton, Julian N., Brooklyn, N. Y., assignor to Crane Packing Company, Chicago, Ill. Packing steam surface condensers. 1,714,703; May 28.
- Walton, Samuel A., Herne Bay, England. Abdominal support. 1,726,637; Sept. 3.
- Walton, Samuel F., Hamburg, assignor to The Exolon Company, Blasdell, N. Y. Reclamation of abrasive materials. 1,718,264; June 25.
- Walton, Young, Los Angeles, Calif. Pocket article holders. 1,699,865; Jan. 22.
- Waltz, Anton F., Brooklyn, N. Y., assignor to Koscherak Siphon Bottle Works, Hoboken, N. J. Wire-terminal connector. 1,699,825; Jan. 22.
- Waltz, Foster V., St. Louis, Mo., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,697,942; Jan. 8.
- Walz, Carl F., assignor to Durkee-Atwood Company, Minneapolis, Minn. Heater for engine water circulating systems. 1,710,391; Apr. 23.
- Wambach, Eugene F., Rochester, N. Y. Fabricated sign. 1,732,869; Oct. 22.
- Wamser, Charles J., Milwaukee, Wis. Gas-tube mounting. 1,723,670; Aug. 6.
- Wanamaker, Harry F., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Top-stripping mechanism for hosiery driers. 1,711,334; Apr. 30.
- Wanamaker, John, Philadelphia. (See Jensen, Theodore, assignor.)
- Wanamaker, John, Philadelphia. (See Nevin, William L., assignor.)
- Wandel, Jeff, Grants Pass, Ore. Refrigerating container. 1,732,996; Oct. 22.
- Wander, A., Limited. (See Forward, Charles, assignor.)
- Wander, A., Limited. (See Wall, William H., assignor.)
- Wanders, Hans H., Boston, Mass. Molding machine. 1,711,978; May 7.
- Wandersleb, Ernst, and H. Kunze, assignor to the firm of Carl Zeiss, Jena, Germany. Sunshade for photographic objectives. 1,740,529; Dec. 24.
- Wandersleb, Ernst, and W. Merté, assignors to the firm Carl Zeiss, Jena, Germany. Photographic lens. 1,697,670; Jan. 1.
- Wandless, Franklin W., Berwyn, Pa. Electric heater. 1,713,013; May 14.
- Wandscheer, Ben, et al. (See Curtis, Harry D., assignor.)
- Wandscheer, Daniel, et al. (See Curtis, Harry D., assignor.)
- Wandscheer, Gerrit, et al. (See Curtis, Harry D., assignor.)
- Wandscheer, Jacob, et al. (See Curtis, Harry D., assignor.)
- Waner, Harry E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Trimming device. 1,729,232; Sept. 24.
- Wang, Alfred, Lawrence, assignor of one-half to R. Chiusano, Long Island, N. Y. System of valves relating to internal-combustion engines. 1,719,816; July 2.
- Wangemann, Paul, Berlin, Germany. Fastening postage stamps in albums. 1,736,950; Nov. 26.
- Wangerin, Charles A., Milwaukee, Wis. Lawn trimmer. 1,709,640; Apr. 16.
- Wanner, Edwin P., New York, N. Y. Chair. Des. 77,380; Jan. 1.
- Wanner, George D. (See Miller, Milton P., assignor.)
- Wantz, Julius B., Oak Park, assignor to Victor X-Ray Corporation, Chicago, Ill. Electromedical cabinet. Des. 77,801; Feb. 19.
- Wantz, Julius B., assignor to Victor X-Ray Corporation, Chicago, Ill. X-ray apparatus. 1,725,030; Aug. 20.
- Waples, Keziah, Woodbury, N. J. Silver-cleaning outfit. 1,697,622; Jan. 1.
- Wappat, Fred W., Pittsburgh, Pa. Mortising machine. 1,718,324; June 25.
- Wappler Electric Co. Inc. (See Mutscheller, Arthur, assignor.)
- Wappler Electric Company. (See Fayer, Charles, assignor.)



- Wappler Electric Company. (See Kremer, Joseph, assignor.)
- Wappler Electric Company. (See Mutscheller, Arthur, assignor.)
- Wappler Electric Company. (See Wappler, Frederick H., assignor.)
- Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
- Wappler, Frederick C., assignor to Compex Oscillator Corporation, New York, N. Y. Apparatus for setting up a vibratory air column. 1,698,419; Jan. 8.
- Wappler, Frederick C., New York, N. Y. Transformer. 1,741,265; Dec. 31.
- Wappler, Frederick H., Flushing, N. Y., assignor to Wappler Electric Company, Inc. Cautey electrodes for desiccation surgery. 1,717,480; June 18.
- Wappler, Otto, Philadelphia, Pa. Head lamp. 1,741,264; Dec. 31.
- Wappler, Reinhold H., Yonkers, N. Y. Objective system for surgical telescopes. 1,703,215; Feb. 26.
- Wappler, Reinhold H., Yonkers, N. Y. Blunted endoscope. 1,703,216; Feb. 26.
- Wappler, Reinhold H., Yonkers, N. Y. Speculum. 1,705,513; Mar. 19.
- Wappler, Reinhold H., Yonkers, N. Y. Illuminating probe device. 1,727,495; Sept. 10.
- Wappler, Reinhold H., Yonkers, assignor to Wappler Electric Company, Inc., Long Island City, N. Y. Periodic cam-operated circuit breaker. 1,730,988; Oct. 8.
- Warburton, Wallace A., and A. J. Cormier, Long Beach, Calif. Packing. 1,720,066; July 9.
- Ward, Albert C., Canonsburg, Pa. Pottery kiln. 1,710,558; Apr. 23.
- Ward, Ashley F., Inc. (See Ward, Ashley F. and P. S., assignors.)
- Ward, Ashley F. and P. S., assignors to Ashley F. Ward, Inc., Cincinnati, Ohio. Process and apparatus for separating plastics. 1,726,938; Sept. 3.
- Ward, Charles A., assignor to Brown & Bigelow, St. Paul, Minn. Perpetual calendar. 1,120,774; July 16.
- Ward, Charles E., Charleston, W. Va. Rudder control for towboats. 1,717,286; June 11.
- Ward, Charles E., Charleston, W. Va. Reduction gear drive for stern-wheel boats. 1,721,239; July 16.
- Ward, Clarence A., Linden, N. J., assignor to Standard Oil Development Company. Manufacturing paraffin. 1,718,672; June 25.
- Ward, Daisy S., Brooklyn, N. Y. Child's bed or crib gown. 1,725,031; Aug. 20.
- Ward, Eugene B. (See Marsh, P. M., and Ward.)
- Ward, Franklin, P., and O. J. Gosser, San Diego, Calif. Lobster trap. 1,728,645; Sept. 17.
- Ward, Frederic L., Oxford, Mich. Apparatus for grading material. 1,706,428; Mar. 26.
- Ward, George P., Habana, Cuba, assignor, by mesne assignments, to Fuller Lehigh Company. Furnace. 1,726,050; Aug. 27.
- Ward, Gertrude. (See Labarre, Robert V., assignor.)
- Ward, Harris G., Vashon, Wash. Display device. 1,701,739; Feb. 12.
- Ward, James H., jr., assignor to The Federal Mail Box Co., Inc., Gary, Ind. Mail box. 1,736,895; Nov. 26.
- Ward, James P., Chicago, Ill. Packing cover. 1,713,724; May 21.
- Ward, Jerome, assignor to Blatchford Calf Meal Company, Waukegan, Ill. Grinding machine. 1,707,697; Apr. 2.
- Ward, Joshua, Elizabeth, N. J., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Bag-filling machine. 1,701,830; Feb. 12.
- Ward Leonard Electric Company. (See Hayden, Henry T., jr., assignor.)
- Ward Leonard Electric Company. (See Thompson, George G., assignor.)
- Ward Leonard Electric Company. (See Waller, Alfred E., assignor.)
- Ward-Love Pump Corporation. (See Johnson, Oscar W., assignor.)
- Ward-Love Pump Corporation. (See Sweeney, Orland R., assignor.)
- Ward Manufacturing Co. (See Meek, Eugene T., assignor.)
- Ward, Neil C., Chicago, Ill. Stabilizer. 1,735,820; Nov. 12.
- Ward, Paul S. (See Ward, Ashley F. and P. S.)
- Ward, William L., Port Chester, N. Y. Bolt-heading machine. 1,718,265; June 25.
- Ward, Willis C., Orchard Lake, Mich. Cushioned car for aircraft. 1,717,533; June 18.
- Ward, Willis C., Orchard Lake, Mich. Yieldable landing platform for aeroplanes. 1,739,193; Dec. 10.
- Wardell, Edward T., St. Paul, Minn. Barge drive. 1,716,607; June 11.
- Wardell, Percy M., Dunmore, Pa. Tree holder. 1,721,980; July 23.
- Wardle, James B., Toronto, Ontario, Canada. Ladder scaffold bracket. 1,701,347; Feb. 5.
- Wardle, Randolph M., Carlton, assignor of one-half to I. Lindon, Portland, Oreg. Ironing board. 1,702,025; Feb. 12.
- Wardley, George P. (See Mowat, J. F., and Wardley.)
- Wardner, Oel E., assignor to North & Judd Manufacturing Company, New Britain, Conn. Belt buckle. Des. 80,252; Dec. 31.
- Wardner, Oel E., assignor to North & Judd Manufacturing Company, New Britain, Conn. Belt buckle. Des. 80,253; Dec. 31.
- Wardwell, Harold F., assignor to Detroit Steel Products Company, Detroit, Mich. Latch. 1,724,536; Aug. 13.
- Ware, Charles L., Shawshen Village, Andover, Mass. Temperature-control system for condensers. 1,706,719; Mar. 26.
- Ware, Elmer E., assignor to Acme White Lead and Color Works, Detroit, Mich. Method and apparatus for the manufacture of varnish. 1,697,213; Jan. 1.
- Ware, Melvin R., Baltimore, Md. Process and apparatus for making paper. 1,732,176; Oct. 15.
- Ware, Melvin R., Westminster, Md. Paper-making machine. 1,737,781; Dec. 3.
- Ware Radio, Inc. (See Hazeltine, Louis A., assignor.)
- Ware, Robert R., assignor to Chicago Roller Skate Company, Chicago, Ill. Roller. 1,697,485; Jan. 1.
- Ware Shoals Manufacturing Company. (See Couch, Charles A., assignor.)
- Ware Shoals Manufacturing Company. (See Couch, C. A., and Hatcher, assignors.)
- Ware, William G., Dallas, Tex. Protector for book covers. 1,708,813; Apr. 9.
- Waream, Charles E., Norwood, assignor to The American Laundry Machinery Company, Norwood Station, Ohio. Laundry marking tag. 1,713,633; May 21.
- Warfield, William S., jr., Sioux City, Iowa. Price-tag holder. 1,730,959; Oct. 8.
- Warford Construction Company. (See Playford, Sterling T., assignor.)
- Warford Corporation, The. (See Utz, J. G., and Morgan, assignors.)
- Warga, Kalman, New York, N. Y., assignor to C. W. Bickford and M. Bickford, Osceola Mills, Pa. Apparatus for decorating glass surfaces. 1,705,512; Mar. 19.
- Warham, Robert F., Oakland, Calif. Bubble blower. 1,733,478; Oct. 29.
- Warhus, Oliver F., Albany, N. Y., assignor to Versare Corporation. Exhaust muffler. 1,708,002; Apr. 9.
- Waring, Charles E. (See Clarke, H. T., and Waring.)
- Waring, Horace, Liverpool, assignor to Associated Lead Manufacturers Limited, London, England. Pulverizer. 1,735,985; Nov. 19.
- Waring, Spencer W. (See Pfeifer, John, assignor.)
- Warmoth, George W., Indianapolis, assignor to Columbus Creosoting Company, Columbus, Ind. Kerfing saw. 1,740,555; Dec. 24.
- Warmuth, Kaspar, San Fernando, Calif. Well pump. 1,699,726; Jan. 22.
- Warmuth, Kaspar, San Fernando, Calif. Paste discharger. 1,715,878; June 4.
- Warner Aircraft Corporation, The. (See Warner, William O., assignor.)
- Warner, Albion L., New York, N. Y., assignor to C. L. Russell, Rahway, N. J. Easy chair. 1,714,936; May 28.
- Warner, Albion L., New York, N. Y., assignor to C. L. Russell, Rahway, N. J. Davenport bed. 1,722,612; July 30.
- Warner Alonzo A., assignor to Landers, Frary & Clark, New Britain, Conn. Toaster. 1,714,064; May 21.
- Warner, Archibald A., Royal Oak, assignor to The Universal Products Co., Inc., Detroit, Mich. Lubricant retainer and dust guard for universal joints. 1,717,481; June 18.
- Warner, Arthur, Haverford, assignor to R. H. Beaumont Company, Philadelphia, Pa. Skip hoist. 1,707,958; Apr. 2.
- Warner Bros. Inc. (See Warner, William E., assignor.)
- Warner, Charles C., Cleburne, Tex. Arch supporter. 1,704,813; Mar. 12.
- Warner, Charles W., Middletown, Conn., and T. M. Keefe, Boston, Mass. Bracket for towel bars or similar articles. Des. 79,771; Oct. 29.
- Warner, Charles W., Middletown, Conn., and T. M. Keefe, Boston, Mass. Tumbler holder. Des. 79,772; Oct. 29.
- Warner, Charles W., Middletown, Conn., and T. M. Keefe, Boston, Mass. Garment hook or similar article. Des. 79,773; Oct. 29.
- Warner, Charles W., Middletown, Conn., and T. M. Keefe, Boston, Mass. Towel hook or similar article. Des. 79,774; Oct. 29.
- Warner, Chester E., Berwyn, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. 1,718,504; June 25.
- Warner, Chester E. and A. N. Nilson, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Condenser structure. 1,709,964; Apr. 23.
- Warner, Chester E., and A. N. Nilson, Chicago, Ill. Apparatus for and method of forming coils. 1,728,144; Sept. 10.
- Warner, Clarence. (See Buvinger, G. A., and Warner.)
- Warner, Clarence. (See Hull, H. B., and Warner.)
- Warner, Clarence, assignor to Delco-Light Company, Dayton, Ohio. Water system. 1,724,056; Aug. 13.
- Warner, Clarence, and E. L. Horlacher, Dayton Ohio, assignors, by mesne assignments, to Frigidaire Corporation. Refrigeration apparatus. 1,734,550; Nov. 5.
- Warner, Clarence, and H. B. Hull, Dayton, Ohio, assignors, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,702,529; Feb. 19.
- Warner Corporation, The. (See Collins, John L., assignor.)
- Warner Corporation, The. (See Lietzke, Henry R., assignor.)
- Warner, De Ver H., Fairfield, Conn. Golf tee. 1,699,934; Jan. 22.
- Warner, Donald F. (See Holt, K. M., Warner, and Pollard.)



- Warner, Donald F., Lynn, and F. R. Ericson, Beverly, Mass., assignors to General Electric Company. Regulating means for elastic-fluid turbines. 1,708,814; Apr. 9.
- Warner, Earl C., Philadelphia, Pa. Clothesline reel. 1,707,378; Apr. 2.
- Warner, Earle E., Schenectady, N. Y., assignor to General Electric Company. Motor-protective-switching apparatus. 1,713,202; May 14.
- Warner, Edgar. (See Scott, H. B., and Warner.)
- Warner, Edward A., jr., Millburn, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,704,450; Mar. 5.
- Warner Gear Company. (See Davis, Ernest F., assignor.)
- Warner Gear Company. (See Fishburn, Otto E., assignor.)
- Warner, George C., La Porte, assignor to The De Luxe Products Corporation, La Porte, Ind. Work centering and holding device. 1,729,906; Oct. 1.
- Warner, George W. (See Wright, W. L., and Warner.)
- Warner, Irving. (See Mount, W. D., and Warner.)
- Warner, James L., Tulsa, Okla. Stringed musical instrument. 1,716,747; June 11.
- Warner, James L., Tulsa, Okla. Musical-instrument construction. 1,719,680; July 2.
- Warner, John H., Fremont, Ohio. Molding flask. 1,732,199; Oct. 15.
- Warner, John W., Topeka, Kans. Separable end thrust bushing. 1,701,521; Feb. 12.
- Warner, Joy M., Santa Paula, Calif., assignor of two-thirds to Nathan W. Blanchard Investment Company. Fruit-marking machine. 1,725,354; Aug. 20.
- Warner Mfg. Co. (See Cadman, Addi B., assignor.)
- Warner, Pauline B. (See Bohlig, Martin, assignor.)
- Warner, Rollin C., Albany, N. Y. Safety razor. 1,705,163; Mar. 12.
- Warner, Russell A., Schenectady, N. Y., assignor to General Electric Company. Frequency converter tie. 1,738,466; Dec. 3.
- Warner Sprinkler Company. (See Warner, Walter J., assignor.)
- Warner, Walter J., Hawthorne, Calif., assignor to Warner Sprinkler Company, Los Angeles, Calif. Lawn sprinkler. 1,721,753; July 23.
- Warner, William E., Rahway, assignor to Warner Bros. Inc., Newark, N. J. Discharge valve. 1,716,397; June 11.
- Warner, William E., Rahway, assignor to Warner Bros. Inc., Newark, N. J. Coffee percolator. 1,716,398; June 11.
- Warner, William O., assignor to The Warner Aircraft Corporation, Detroit, Mich. Internal-combustion engine for aircraft. 1,716,095; June 4.
- Warnes, Ernest E., London, England. Holder for eggs. 1,699,935; Jan. 22.
- Warnick, Philip, assignor to Double-hung Rolling Screen & Shade Co., Elizabeth, N. J. Window screen. 1,713,989; May 21.
- Warning, Heinrich. (See Stein, Rudolf, assignor.)
- Warnock, Wallace S., Chicago, Ill. Printing-press bed. 1,711,509; May 7.
- Warp Compressing Machine Company. (See Remington, Arthur L., assignor.)
- Warp Compressing Machine Company. (See Remington, A. L., and Longvall, assignors.)
- Warp Twisting-In Machine Company. (See Becker, John H., assignor.)
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,698,975; Jan. 15.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,711,293; Apr. 30.
- Warren, Albert B., assignor to J. S. Warren, Leland, Ill. Grain-stalk lifter and guard for tractors. 1,706,641; Mar. 26.
- Warren, Alfred T., assignor to Inectoo, Inc., New York, N. Y. Applicator. 1,704,492; Mar. 5.
- Warren, Charles H., Atlanta, Ga., assignor to Draper Corporation, Hopedale, Mass. Thread positioner for filling replenishing looms. 1,727,315; Sept. 3.
- Warren, Clinton J., Winchester, Mass. Locking vehicles in stalls. 1,726,724; Sept. 3.
- Warren, Clyde W. (See Russell, Zachary E., assignor.)
- Warren, Edward F., Maywood, Ill., assignor to American Can Company, New York, N. Y. Notch for improved side seams. 1,729,195; Sept. 24.
- Warren, Fred D., Chicago, Ill. Nail-cleaning device. 1,730,256; Oct. 1.
- Warren, George C., Newton, Mass. Bituminous composition and the manufacture thereof. 1,740,212; Dec. 17.
- Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,706,504; Mar. 26.
- Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine and making shoes. 1,706,642; Mar. 26.
- Warren, George E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. 1,732,293; Oct. 22.
- Warren, George L. (See Siebert, J. M., and Warren.)
- Warren, Glenn B., and H. L. Wirt, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,723,104; Aug. 6.
- Warren, Harold R., Cambridge, assignor to P. R. Warren Company, Everett, Mass. Paper box. 1,715,583; June 4.
- Warren, Harry R., assignor, by mesne assignments, to Warren-teed Seed Company, Chicago, Ill. Seed-treating machine. 1,703,048; Feb. 19.
- Warren, Harry R., assignor, by mesne assignments, to Warren-Teed Seed Company, Chicago, Ill. Seed-separating process and solution therefor. 1,708,435; Apr. 9.
- Warren, Harry R., assignor, by mesne assignments, to Warren-Teed Seed Company, Chicago, Ill. Seed-separating method and apparatus. 1,731,423; July 16.
- Warren, Henry E., Ashland, Mass., assignor to General Electric Company. Control of distant power stations. 1,699,128; Jan. 15.
- Warren, Henry E., Ashland, Mass. Manufacture of gears and the like. 1,731,117; Oct. 8.
- Warren, Henry E., assignor to Warren Telechron Company, Ashland, Mass. Frictionless clock contact. 1,733,467; Dec. 3.
- Warren, Henry W. H., Coventry, and R. Newbound, Rugby, England, assignors to General Electric Company. Insulating rod. 1,717,287; June 11.
- Warren, John J. (See Burkhardt, John E., assignor.)
- Warren, John S. (See Warren, Albert B., assignor.)
- Warren, Melvin R., Michigan City, Ind. Radiator screen. 1,731,085; Oct. 8.
- Warren, P. R., Company. (See Warren, Harold R., assignor.)
- Warren, Ralph H., deceased, New York, N. Y.; The Farmers' Loan and Trust Company, executor. Intermittent-discharge grinding mill. 1,717,860; June 18.
- Warren Refining & Chemical Company, The. (See Cannon, Edson L., assignor.)
- Warren Refining and Chemical Company, The. (See Wunderlich, Adolph, assignor.)
- Warren, Robert G., Winslow, Ariz. Auxiliary reservoir bleeding system. 1,712,535; May 14.
- Warren, Roscoe F., Los Angeles, Calif. Rifle-cleaning rod. 1,739,933; Dec. 17.
- Warren, Roy E., and F. Melott, Houston, Tex. Union. 1,711,761; May 7.
- Warren, S. D., Company. (See Bugbird, Herbert C., assignor.)
- Warren, Seymour P., Golden, Colo. Flotation process. 1,735,190; Nov. 12.
- Warren, Simon L., Quincy, Mass. Upholstery staple. 1,730,026; Oct. 1.
- Warren, Simon L., Quincy, Mass. Upholstery support. 1,737,815; Dec. 3.
- Warren-Teed Seed Company. (See Warren, Harry R., assignor.)
- Warren Telechron Company. (See Warren, Henry E., assignor.)
- Warren, Thomas W., Montreal, Quebec, Canada. Method and apparatus for making spark plugs. 1,731,280; Oct. 15.
- Warren, William S., Meriden, assignor R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 78,237; Apr. 9.
- Warrin, Edmondson, Upper Montclair, N. J. Cocktail shaker or similar article. Des. 77,717; Feb. 12.
- Warrington, James N., Los Angeles, Calif. Pile extractor and the like. 1,736,104; Nov. 19.
- Warrington, William W., Petersham, near Sydney, Australia. Apparatus relating to the manufacture of envelopes. 1,730,751; Oct. 8.
- Warshaw, Nathaniel. (See Shepard, F. J., and Warshaw.)
- Warshaw, Nathaniel. (See Shepard, F. J., jr., Warshaw, and Hennessy.)
- Warshaw, Nathaniel, Mattapan, and D. E. Hennessy, Cambridge, assignors to Lewis-Shepard Company, Watertown, Mass. Trussed platform. 1,698,038; Jan. 8.
- Warshaw, Nathaniel, Mattapan, assignor to Lewis-Shepard Company, Watertown, Mass. Elevating truck. 1,704,777; Mar. 12.
- Warshaw, Nathaniel, Mattapan, assignor to Lewis-Shepard Company, Watertown, Mass. Automatic brake-controlling mechanism. 1,741,215; Dec. 31.
- Warshaw, Nathaniel, Boston, assignor to Lewis-Shepard Company, Watertown, Mass. Four-post hoisting machine. 1,710,442; Apr. 23.
- Warth, Albin H., Baltimore, Md., assignor, by mesne assignments, to Crown Cork and Seal Company, Inc., New York, N. Y. Bottle cap and producing the same. 1,732,958; Oct. 22.
- Warwick China Company. (See Thorngate, Bruce, assignor.)
- Warwick, Rogers M., Eastlake, Fla. Bag-filling machine. 1,713,575; May 21.
- Wasberg, Axel. (See Tobin, K. J., and Wasberg.)
- Waseige, Charles, Rueil, France. Speed-reducing gear. Re17,266; Apr. 9.
- Washburn, Clyde, Memphis, Tenn. Exercising apparatus. 1,717,861; June 18.
- Washburn Company, The. (See Dennis, Elmer L., assignor.)
- Washburn Company, The. (See Glenny, Clarence S., assignor.)
- Washburn, Frederick C., New Bedford, Mass. Warp beam. 1,741,800; Dec. 31.
- Washburn, Richard C., Saugerties, N. Y. Iceless jacket. 1,727,530; Sept. 10.
- Washburne, Arthur L., assignor to Sparkletts Bottled Water Corporation, Los Angeles, Calif. Olla structure for dispensing beverages. 1,728,646; Sept. 17.
- Washburne, James V., Fulton, N. Y. Apparatus for making fixtures for shade rollers. 1,697,581; Jan. 1.



- Washington, Dixon E. (See Washington, Jim D. E., assignor.)
- Washington, Dixon E., Kansas City, Mo., assignor of one-half to W. B. Connell, Kansas City, Kans. Drier. 1,715,729; June 4.
- Washington, Dixon E., 2d, Kansas City, Mo. Automatic safety valve for pneumatic tires. 1,738,621; Dec. 10.
- Washington, Jim D. E., assignor of one-half to D. E. Washington, Kansas City, Mo. Rotary pump or motor. 1,736,105; Nov. 19.
- Washington Mortuary Supply Company, The. (See Klever, William E., assignor.)
- Wasil, Albert P. (See Dudas, A., and Wasil.)
- Wasmuth, Augustus F., Huntington, Ind., assignor to Wasmuth-Endicott Company. Pocketed table. 1,699,496; Jan. 15.
- Wasmuth, Augustus F., Huntington, Ind., assignor to Wasmuth-Endicott Company. Cabinet door hinge. 1,727,319; Sept. 3.
- Wasmuth, Augustus F., Huntington, Ind. Wall seat. 1,732,782; Oct. 22.
- Wasmuth-Endicott Company. (See Lantz, Ray E., assignor.)
- Wasmuth-Endicott Company. (See Wasmuth, Augustus F., assignor.)
- Wasp, James. (See Corby, S. F., and Wasp.)
- Wass, August, Mellerud, Sweden. Nail puller. 1,709,240; Apr. 16.
- Wasser- und Luft-Fahrzeug G. m. b. H. (See Naatz, Hermann, assignor.)
- Wasserbach, Franz, Yonkers, N. Y. Curtain controller. 1,726,008; Aug. 27.
- Wasserfallen, Charles F., assignor by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Tire carrier. 1,713,311; May 14.
- Wasserman, David, Amsterdam, N. Y. Cover for brooms. 1,710,598; Apr. 23.
- Wasson, Carey C., Maricopa, assignor of one-half to F. A. Wasson, Santa Ana, Calif. Safety appliance for oil derricks. 1,697,376; Jan. 1.
- Wasson, Frank A. (See Wasson, Carey C., assignor.)
- Wasson, Robert B., Cranford, N. J. Testing motor-vehicle engines. 1,701,168; Feb. 5.
- Wasson, Robert B., Cranford, N. J. Regulating speed. 1,726,599; Sept. 3.
- Wasson, Robert B., Cranford, N. J. Method and apparatus for testing rings and engines. 1,729,732; Oct. 1.
- Waswo, Charles, and C. M. Schenck, Dunnell, Minn. Condensation preventer for windows. 1,729,808; Oct. 1.
- Watanabe, Chikazo, Los Angeles, Calif. Shoe shield. 1,718,619; June 25.
- Watchorn, Henry M., Sapulpa, Okla. Tunneling device. 1,699,936; Jan. 22.
- Water, Charles B., Montclair, N. J. Alternating-current arc welding apparatus. 1,727,224; Sept. 3.
- Waterbury Buckle Co. (See La Vigne, Jerome R., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Petitjean, Clifford O., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Pierson, W. D., and Van Valkenburg, assignors.)
- Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
- Waterbury Button Company. (See Kaynor, Warren F., assignor.)
- Waterbury Metal Wares Company, The. (See Wirth, Charles E., assignor.)
- Waterbury Tool Company, The. (See Crain, John J., assignor.)
- Waterbury Tool Company, The. (See Fowler, Harry P., assignor.)
- Waterbury Tool Company, The. (See Francis, Daniel R., assignor.)
- Waterer, John W., Greenwich, assignor to Barrow, Hepburn & Gale, Limited, London, England. Handle. 1,736,640; Nov. 19.
- Waterfall, Wallace. (See Munroe, T. B., and Waterfall.)
- Waterhouse, David. (See Prince-Smith, W., and Waterhouse.)
- Waterhouse, Gerald C., Pasadena, Calif. Traffic signal. Des. 78,953; July 9.
- Waterman, Harry H., Strasburg Junction, Va. Air-swept ball mill. Re17,462; Oct. 15.
- Waterman, Russell R. (See French, C. A., and Waterman.)
- Waterman, Russell R., Long Beach, Calif., assignor to Farmers' National Bank of Greenville, Ohio, Greenville, Ohio, trustee. Balanced throttle valve for steam-power plants. 1,720,705; July 16.
- Waterman-Waterbury Company, The. (See Cross, J. H., Franklin, and Schneider, assignors.)
- Waterous, Charles A., Brantford, Ontario, Canada. Electric governor. 1,719,952; July 9.
- Waters, Archiebald D., assignor to The Stanley Works, New Britain, Conn. Floor mop. 7,709,331; Apr. 16.
- Waters, Arthur J. (See Starr, F. C., and Waters.)
- Waters, Clifford J. (See Koester, H. A., and Waters.)
- Waters, Gabe H., Greer, S. C. Loud-speaker horn. 1,737,102; Nov. 26.
- Waters, George L. (See Anderson, A. H., and Waters.)
- Waters, Gilbert C., Jr., assignor to The E. C. Brown Company, Rochester, N. Y. Spraying device. 1,723,715; Aug. 6.
- Waters, Harry B., Denver, Colo. Filter-bag support. 1,728,381; Sept. 17.
- Waters, Harry F., Brattleboro, Vt. Pipe organ. Des. 78,909; July 2.
- Waters, Harry F., St. Louis, assignor to Magnetic Organ Action Company, University City, Mo. Movement-initiating device. 1,717,638; June 18.
- Waters, James A., assignor to Donahoe's Inc., Pittsburgh, Pa. Trimming hams. 1,719,408; July 2.
- Waters, Maurice, assignor to General Motors Corporation, Detroit, Mich. Combined air cleaner and oil separator. 1,717,639; June 18.
- Waters, Michael, Sioux City, Iowa. Channel-forming device. 1,708,988; Apr. 16.
- Waters, Millard F., assignor to Smith Separator Company, Tulsa, Okla. Baffle for oil and gas separators. 1,718,013; June 18.
- Waters, Millard F., assignor to Smith Separator Company, Tulsa, Okla. Baffle. 1,722,870; July 30.
- Waters, Millard F., assignor to Smith Separator Company, Tulsa, Okla. Separator tank. 1,724,537; Aug. 13.
- Waters, Nathan R., assignor to Waters & Waters Manufacturing Company, St. Louis, Mo. Pen and ink stand. 1,735,446; Nov. 12.
- Waters, Percy, Detroit, Mich. Electric tattooing device. 1,724,812; Aug. 13.
- Waters & Waters Manufacturing Company. (See Waters, Nathan R., assignor.)
- Waterston, Charles L., assignor of one-half to D. J. Kennedy, Nashville, Tenn. Proof press. 1,730,181; Oct. 1.
- Watertown Table Slide Co. (See Drew, Herbert H., assignor.)
- Watervliet Tool Company. (See Becker, Frederick W., assignor.)
- Waterworth, Robert J., assignor to L. M. Studevant, Sidney, Ohio. Folding machine. 1,716,936; June 11.
- Wathey, Arthur, Lakewood, Ohio. Vault head. 1,719,151; July 2.
- Watkins, Benjamin F., Philadelphia, Pa. Cotton chopper. 1,728,145; Sept. 10.
- Watkins, Clayton S., Wichita Falls, Tex. Tire carrier with locking device. 1,709,641; Apr. 16.
- Watkins, Clayton S., Wichita Falls, Tex. Combined demountable rim and wheel for automobiles and other vehicles. 1,721,679; July 23.
- Watkins, D. M., Co. (See Jenckes, George W., assignor.)
- Watkins, Eldon R., Arlington, Kans. Seed treating and mixing device for grain drills. 1,707,698; Apr. 2.
- Watkins, Francis M., and R. Cunningham, Reward, Calif. Bearing adjuster. 1,698,614; Jan. 8.
- Watkins, Frank M., Cincinnati, Ohio. Unloading device for centrifugal extractors. 1,702,713; Feb. 19.
- Watkins, Griffin. (See Neeley, George S., assignor.)
- Watkins, Guy H. (See Watkins, William M., assignor.)
- Watkins, Henry A., and J. C. Askwig, Boulder, Colo. Loading mechanism for beets and the like. 1,723,591; Aug. 6.
- Watkins, J. R., Company, The. (See Shugart, G., and Thomssen, assignors.)
- Watkins, Karl N., and S. O. Clements, Los Angeles, Calif. Awning. 1,700,555; Jan. 29.
- Watkins, William F., Oakland, Calif. Spark-plug cleaner. 1,731,915; Oct. 15.
- Watkins, William M., assignor of one-half to G. H. Watkins, Lancaster, Ky. Trace carrier. 1,709,507; Apr. 16.
- Watkiss, Horace, Salt Lake City, Utah. Air-valve cap. 1,712,597; May 14.
- Watling, John B., Chicago, Ill. Amusement apparatus. 1,703,561; Feb. 26.
- Watling, Thomas W. B., and J. Macourek, Chicago, Ill.; said Macourek assignor to said Watling. Weighing scale. 1,702,682; Feb. 19.
- Watling, William D., Chicago, Ill. Amusement device. 1,701,740; Feb. 12.
- Watling, William D., Chicago, Ill. Amusement device. 1,701,741; Feb. 12.
- Watling, William J. (See Lowry, C. A. L., and Watling.)
- Watres, Lewis S., Scranton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del. Lubricating apparatus. 1,717,288; June 11.
- Watrous, Earl G., Chicago, Ill. Lavatory. Des. 79,312; Aug. 27.
- Watrous, Earl G., Chicago, Ill. Lavatory. Des. 79,862; Nov. 5.
- Watrous, Clifford M., East Hampton, Conn., assignor to Gong Bell Manufacturing Company. Producing wheels. 1,700,003; Jan. 22.
- Watrous, Clifford M., East Hampton, Conn., assignor to Gong Bell Manufacturing Company. Making wheels. 1,700,004; Jan. 22.
- Watrous, Earl G., Chicago, Ill. Lavatory-faucet attachment. 1,722,613; July 30.
- Watrous, Earl G., Chicago, Ill. Lavatory support. 1,722,614; July 30.
- Watrous, Harold E., Portland, Ore. Bottle carrier. 1,720,500; July 9.
- Watson, Aldwyn B., Pasadena, Calif. Single-conductor telephone or telegraph. 1,731,802; Oct. 15.
- Watson, Alexander, St. Catharines, Ontario, Canada. Footwear for draft animals. 1,710,909; Apr. 30.
- Watson, Arthur H. (See Neilson, R. A., and Watson.)
- Watson, Arthur T., assignor of one-half to B. R. Ridenour, Mansfield, Ohio. Combined liquid-pressure controller and sanitary cleansing apparatus. 1,719,152; July 2.
- Watson, C. A., et al. (See Purdy, Benjamin H., assignor.)
- Watson, Cassius H., assignor to Davis & Geck, Inc., Brooklyn, N. Y. Suture. 1,741,893; Dec. 31.



- Watson, Charles G., assignor to Westcott Rule Company, Inc., Seneca Falls, N. Y. Spring joint for folding rule. 1,718,505; June 25.
- Watson, Charles H., et al. (See Thorne-Baker, Thomas, assignor.)
- Watson, Cornelius B. (See Carr, R. H., and Watson.)
- Watson, Edward F. (See Morehouse, L. F., and Watson.)
- Watson, Edward F., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Printing-telegraph system. 1,703,972; Mar. 5.
- Watson, Edward F., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Picture-transmitting system. 1,719,916; July 9.
- Watson, Edward F., Larchmont, and B. S. Swezey, Floral Park, N. Y., assignors to American Telephone and Telegraph Company. Testing telegraph transmission. 1,735,943; Nov. 19.
- Watson, Edward J., New York, N. Y. Propeller. 1,729,974; Oct. 1.
- Watson, Frank B., and E. Culver, London, assignors to United Kingdom Optical Company, Limited, Mill Hill, London, England. Making bifocal lenses. 1,729,654; Oct. 1.
- Watson, George O., Rugby, England, assignor to General Electric Company. Switch mechanism. 1,722,165; July 23.
- Watson, Henry C. (See Waddell, M., and Watson.)
- Watson, Henry P. (See Markus, Benjamin, assignor.)
- Watson, Henry P., Minneapolis, Minn. Receptacle carrier. 1,702,555; Feb. 19.
- Watson, James B., Detroit, Mich. Internal-combustion engine. 1,741,894; Dec. 31.
- Watson, James, Marinette, Wis. Window screen. 1,739,429; Dec. 10.
- Watson, Jay R., Chicago, Ill., assignor to The Ideal Electric & Manufacturing Company, Mansfield, Ohio. Exciter changers for synchronous electrical machines. 1,731,644; Oct. 15.
- Watson, John C., Pawtucket, assignor to B. B. & R. Knight Corporation, Providence, R. I. Cross-dyeing cellulose fabric. Re17,295; May 14.
- Watson, Joseph C., Philadelphia, Pa. Sod-cutting machine. 1,706,831; Mar. 26.
- Watson, Lawrence W. (See Behringer, Grover F., assignor.)
- Watson & McDaniel Co. (See Jahn, Frederick L., assignor.)
- Watson, Martin A., assignor to Swift & Company, Chicago, Ill. Meat-skinning machine. 1,703,217; Feb. 26.
- Watson, Richard M., Detroit, Mich. Loose-leaf binder. 1,724,329; Aug. 13.
- Watson, Richard M., Detroit, Mich. Loose-leaf binder. 1,740,936; Dec. 24.
- Watson, Robert, Washington, D. C. Automobile clock. 1,712,013; May 7.
- Watson, Ronald. (See Lantz, L. A., and Watson.)
- Watson-Stillman Co., The. (See Stillman, Edwin A., assignor.)
- Watson, Theodore, East Melbourne, Victoria, assignor to Watsonia Engineering and Manufacturing Company Proprietary Limited, Melbourne, Australia. Record-brushing attachment for gramophones. 1,712,637; May 14.
- Watson, Thomas, executor. (See Moses, Frank D.)
- Watson, Thomas H., East Rockaway, N. Y. Collapsible leg-rest chair. 1,697,671; Jan. 1.
- Watson-Waddell Limited. (See Waddell, M., and Watson, assignors.)
- Watson, William, West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic casting-washing apparatus. 1,740,052; Dec. 17.
- Watson, William H., assignor to Lister & Company, Limited, Bradford, England. Rug or similar article. Des. 79,112; July 30.
- Watson, William H., assignor to Lister & Company, Limited, Bradford, England. Rug or similar article. Des. 79,113; July 30.
- Watson, William H., assignor to Lister & Company, Limited, Bradford, England. Rug or similar article. Des. 79,114; July 30.
- Watson, William H., assignor to Lister & Company, Limited, Bradford, England. Rug or similar articles. Des. 79,115; July 30.
- Watson, William N. (See Stevens, R. H., Norris, and Watson.)
- Watson, William T., Vancouver, British Columbia, Canada. Hand-operated brake. 1,710,849; Apr. 30.
- Watsonia Engineering and Manufacturing Company, Proprietary Limited. (See Watson, Theodore, assignor.)
- Watt, Charles H., Amherst, Nova Scotia, Canada. Clothes-line prop. 1,700,343; Jan. 29.
- Watt, James, Westbury-on-Trym, assignor to J. & F. Pool, Limited, Hayle, England. Rotary screening apparatus. 1,698,572; Jan. 8.
- Watt, William E., Evanston, Ill. Ventilating system. 1,732,959; Oct. 22.
- Watt, William W., assignor of one-half to J. Weil, Dayton, Ohio; B. Weil, executrix. Liquid-level gauge. 1,707,970; Apr. 2.
- Wattel, Achille L. F., Sevres, France. Apparatus for replacing spark plugs. 1,736,561; Nov. 19.
- Wattells, Frank S., assignor of one-half to J. R. Kline, Chicago, Ill. Speed-indicator signal. 1,723,222; Aug. 6.
- Watter, Michael. (See McCarthy, C. J., and Watter.)
- Watter, Michael, New York, assignor to C. M. V. Vought, Great Neck, N. Y. Aeroplane and landing chassis therefor. 1,719,798; July 2.
- Watter, Michael, New York, assignor to C. M. V. Vought, Great Neck, N. Y. Aircraft. 1,719,799; July 2.
- Watters, Alex., Chicago, Ill. Compression gauge. 1,716,399; June 11.
- Watters, Chalmers E., Prairie Depot, assignor of one-third to F. L. Watters, Bellefontaine, and one-third to C. J. Stahl, Prairie Depot, Ohio. Well-casing-pulling apparatus. 1,709,449; Apr. 16.
- Watters, Floyd L., et al. (See Watters, Chalmers E., assignor.)
- Watters, John H., Anniston, Ala. Internal-combustion engine. 1,699,171; Jan. 15.
- Watters, Luther A., St. Louis, Mo., and S. F. Lloyd, Edwardsville, Ill., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Selecting device for card-accounting systems or the like. 1,731,281; Oct. 15.
- Watters, Luther A., and S. F. Lloyd, Edwardsville, Ill., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Accounting apparatus and method. 1,736,334; Nov. 19.
- Watters, Thomas, Jr., et al. (See Ellis, Ralph N., assignor.)
- Watters, William H. (See Bilinski, Michal, assignor.)
- Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Head for loom warp beams. 1,715,967; June 4.
- Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picking motion for looms. 1,722,831; July 30.
- Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Loom dobbie mechanism. 1,739,194; Dec. 10.
- Wattmann, John, Berlin, Lankwitz, Germany. Transporting rails of relatively great length. 1,704,269; Mar. 5.
- Wattmann, John, Berlin, Lankwitz, Germany. Welding-exposed rails. 1,729,464; Sept. 24.
- Wattmann, John, Berlin-Lankwitz, Germany. Welding collar for rail joints. 1,732,390; Oct. 22.
- Watts, Arthur S., Columbus, Ohio. Process of and apparatus for firing ceramic ware. 1,724,238; Aug. 13.
- Watts, Arthur S., Columbus, Ohio. Porcelain product and manufacturing the same. 1,728,382; Sept. 17.
- Watts, Clarence. (See Kinsel, Arthur V., assignor.)
- Watts, Elmer A., Springfield, Mass. Pumping apparatus. 1,735,025; Nov. 12.
- Watts, Elmer A., Tulsa, Okla. Oil-well-flowing apparatus. 1,741,489; Dec. 31.
- Watts, George W., assignor to Standard Oil Company, Whiting, Ind. Heat-exchange apparatus. 1,741,043; Dec. 24.
- Watts, Herbert, Tacoma, Wash. Wrench. 1,739,880; Dec. 17.
- Watts, John S., New York, N. Y. Flow nipple. 1,737,281; Nov. 26.
- Watts-Morehouse Company. (See Stalling, George W., assignor.)
- Watts, Roy T., Baltimore, Md., and J. J. Carr, Syracuse, N. Y., assignors, by mesne assignments, to W. W. Varney, Baltimore, Md. Acoustic vibrator. 1,729,233; Sept. 24.
- Watty, Lewis H. (See Gober, K. C., and Watty.)
- Waugh Equipment Company. (See Clark, Leverett M., assignor.)
- Waughop, Clarence C. (See Main, O. E., and Waughop.)
- Waukesha Motor Company. (See De Long, James E., assignor.)
- Waukesha Motor Company. (See Fisher, J. B., and De Long, assignors.)
- Waukesha Motor Company. (See Horning, Harry L., assignor.)
- Waukesha Motor Company. (See Pope, Arthur W., jr., assignor.)
- Wausau Iron Works. (See Heinzen, Anton C., assignor.)
- Wawrzynski, Wawrzyniec. (See Niemczyk, J., and Wawrzynski.)
- Way, Charles M., assignor to Minneapolis Bedding Company, Minneapolis, Minn. Bedspring. 1,698,863; Jan. 15.
- Wayerski, Peter A., Pulaski, Wis. Scooter. 1,707,831; Apr. 2.
- Wayland, Edwin M., Covesville, Va. Upedging means for fruit sizers. 1,706,368; Mar. 19.
- Wayne Company. (See Baker, Linnaeus E., assignor.)
- Wayne Company. (See Brandt, William F., assignor.)
- Wayne Company. (See Eickmeyer, Earl E., assignor.)
- Wayne Company. (See Hitzeman, Arnold P., assignor.)
- Wayne Company. (See Hodgkinson, Percy W., assignor.)
- Wayne Company. (See Williams, James H., assignor.)
- Wayne, Herbert N., Santa Monica, Calif. Cord-fabric-winding machine. 1,719,738; July 2.
- Wayne Home Equipment Company, The. (See Andrews, Frank W., assignor.)
- Wayne Home Equipment Company, The. (See Baxter, William M., assignor.)
- Wayne Home Equipment Company, The. (See Brandt, William F., assignor.)
- Wayne Home Equipment Company, The. (See Griffin, William M., assignor.)
- Wayne Home Equipment Company, The. (See Myers, Lee V., assignor.)
- Wayne Home Equipment Company, The. (See Robertson, Edwin A., assignor.)



- Wayne Pump Company, The. (See Delanoy, Frederick W., assignor.)
- Wayne Pump Company, The. (See Opitz, William H., assignor.)
- Wayne Pump Company, The. (See Parker, W. H., and Delanoy, assignors.)
- Wayne Pump Company, The. (See Sartakoff, Jack D., assignor.)
- Wayne Pump Company, The. (See Townsend, W. S., and Spaeth, assignors.)
- Wayne Pump Company, The. (See Weeks, Ray B., assignor.)
- Wayne, Truman. (See Varnau, B. H., and Wayne.)
- Wayne, Truman B. (See Varnau, B. H., and Wayne.)
- Wayte, Harry, Kalamazoo, Mich. Fuel mixer for internal-combustion engines. 1,711,762; May 7.
- Wear, Tandy R., Colton, Calif., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator-car-door-operating mechanism. 1,737,627; Dec. 3.
- Weatherhead, Albert J., jr., Cleveland, Ohio. Pipe coupling. 1,733,925; Oct. 29.
- Weatherhead, Edward H., Cleveland Heights, assignor to The Bishop & Babcock Company, Cleveland, Ohio. Electrical switch. 1,725,606; Aug. 20.
- Weatherly, John F., Chattanooga, Tenn. Apparatus for packing fruit. 1,735,624; Nov. 12.
- Weathers, Ethelbert W., San Diego, Calif. Traffic signal. Des. 80,154; Dec. 17.
- Weaver, Allan, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Apparatus and method for transmitting pictures. 1,709,926; Apr. 23.
- Weaver, Allan, and F. H. Chase, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Radio receiving set. 1,724,057; Aug. 13.
- Weaver, Allan, Brooklyn, N. Y., and F. R. McMurtry, Westwood, N. J., assignors to American Telephone and Telegraph Company. Picture-transmitting system. 1,699,553; Jan. 22.
- Weaver, Archie, Middletown, Ohio. Oven. 1,715,730; June 4.
- Weaver, Charles N., Riverside, Calif. Binding clamp. 1,721,799; July 23.
- Weaver, Clark E., Kansas City, Mo. Door ventilating mechanism. 1,705,321; Mar. 12.
- Weaver, Clark E., Kansas City, Mo. Ventilator. 1,732,870; Oct. 22.
- Weaver, Clark E., Kansas City, Mo. Shipping and storing case. 1,734,314; Nov. 5.
- Weaver, Elverton W., assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. High-lift truck. 1,701,963; Feb. 12.
- Weaver, Ernest W. (See Hepburn, W. M., and Weaver.)
- Weaver, Frank R., assignor to Wisconsin Knife Works, Inc., Clinton, Wis. Lock-joint grooving head. 1,718,325; June 25.
- Weaver, Gaillard E., and E. W. Kelley, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire spreader. 1,715,179; May 28.
- Weaver, Gaillard E., and H. C. Buffington, assignors to Weaver Manufacturing Company, Springfield, Ill. Brake-band-servicing machine. 1,717,130; June 11.
- Weaver, Gaillard E., and W. B. Mackintosh, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-removing appliance. 1,724,813; Aug. 13.
- Weaver, Gaillard E., and E. W. Kelley, assignors to Weaver Manufacturing Company, Springfield, Ill. Jack. 1,735,622; Dec. 10.
- Weaver, Ira A., Springfield, Ill. Pump. 1,717,425; June 18.
- Weaver, Ira A., assignor to Weaver Manufacturing Company, Springfield, Ill. Vehicle wheel-alignment indicator. 1,717,131; June 11.
- Weaver, Irwin, James B., Denver, Colo. Combined flue polisher and cutting-off machine. 1,697,566; Jan. 1.
- Weaver, James R., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Inspecting apparatus for meter paper. 1,717,426; June 18.
- Weaver, James R., North Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring machine. 1,731,403; Oct. 15.
- Weaver, Joseph, et al. (See Alferink, William, assignor.)
- Weaver, Joseph B., Chicago, Ill., assignor, by mesne assignments, to Gyro Process Corporation. Apparatus for treating hydrocarbon oils. 1,708,247; Apr. 9.
- Weaver, James P. (See Neenan, J. M., and Weaver.)
- Weaver, Josiah A., assignor to Sefton Manufacturing Corporation, Chicago, Ill. Chick box. 1,733,566; Oct. 29.
- Weaver, Lillian G., Lansdale, Pa., assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 78,319; Apr. 16.
- Weaver Manufacturing Company. (See Buffington, Harry C., assignor.)
- Weaver Manufacturing Company. (See Weaver, Ira A., assignor.)
- Weaver Manufacturing Company. (See Weaver, G. E., and Buffington, assignors.)
- Weaver Manufacturing Company. (See Weaver, G. E., and Kelley, assignors.)
- Weaver Manufacturing Company. (See Weaver, G. E., and Mackintosh, assignors.)
- Weaver, Marvin S., Southern Pines, N. C. Making concrete. 1,704,156; Mar. 5.
- Weaver, Ray J., Shelby, Ohio. Suction-controlled governor. 1,726,725; Sept. 3.
- Weaver, Robert D., et al. (See Holden, Thomas F., assignor.)
- Weaver, Robin, et al., executor. (See Kaye, Samuel.)
- Weaver, Simon H., Schenectady, N. Y., assignor to General Electric Company. Temperature-stabilized shaft for turbines and making the same. 1,734,930; Nov. 5.
- Weaver, Wayne W., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Shingle. 1,697,519; Jan. 1.
- Weaver, William B., et al. (See Bégin, Lucien, assignor.)
- Weaver, William B., New York, N. Y. Adapter and heating apparatus. 1,700,576; Jan. 29.
- Weaver, William B., Birmingham, Ala. Bracelet vanity case. 1,727,001; Sept. 3.
- Weaver, William B., Birmingham, Ala. Cigarette lighter. 1,727,002; Sept. 3.
- Web Engineering Company, The. (See Baker, William E.)
- Web Engineering Company, The. (See Baker, W. E., and Aland.)
- Webb, Arthur B. (See Cadwell, E. B., and Webb.)
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Truck structure for railway cars. 1,702,098; Feb. 12.
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Truck and lateral motion device. 1,728,459; Sept. 17.
- Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Side frame and spring structure. 1,740,912; Dec. 24.
- Webb, Fred E., Watertown, N. Y. Window construction. 1,736,638; Nov. 19.
- Webb, George, West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Machine for washing dishes and other articles. 1,719,409; July 2.
- Webb, George, West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Machine for washing dishes and other articles. 1,719,410; July 2.
- Webb, George, West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Link belt conveyer. 1,724,150; Aug. 13.
- Webb, George, West Hartford, and F. D. Jenks, Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Dishwashing machine. 1,737,693; Dec. 3.
- Webb, George, and F. D. Jenks, West Hartford, assignors to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Door-operating mechanism. 1,737,902; Dec. 3.
- Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Rotary discharge chute. 1,702,224; Feb. 12.
- Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Loading-skip-operating mechanism. 1,710,280; Apr. 23.
- Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Skip-elevating mechanism. 1,711,510; May 7.
- Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Boom-bucket-control mechanism for concrete-distributing apparatus. 1,731,691; Oct. 15.
- Webb, George F., Hamilton, Ontario, Canada. Core for electric water heaters. 1,727,459; Sept. 10.
- Webb, Harry E., Tonawanda, and G. F. Seames, Buffalo, N. Y. Store building. Des. 80,063; Dec. 3.
- Webb, Harry H., Los Angeles, Calif. Route-map holder. 1,714,650; May 28.
- Webb, James A., Corpus Christi, Tex. Secondary clock. 1,732,146; Oct. 15.
- Webb, Jean F., sr., New York, N. Y. Exhaust muffler. 1,709,332; Apr. 16.
- Webb, Jean F., sr., New York, N. Y. Exhaust-treating mechanism. 1,709,333; Apr. 16.
- Webb, Jean F., sr., New York, N. Y. Muffled bearing. 1,720,191; July 9.
- Webb, Jervis B., Detroit, Mich. Chain for conveyers. 1,702,803; Feb. 19.
- Webb, Jervis B., Detroit, Mich. Chain conveyer. 1,721,759; July 23.
- Webb, Joseph, Cincinnati, Ohio. Corn-harvesting apparatus. 1,702,328; Feb. 19.
- Webb, Lewis W., and B. Woodward, Schenectady, N. Y., assignors to General Electric Company. Internal-combustion electric drive. 1,734,931; Nov. 5.
- Webb, Norman E., Melba, Idaho. Water-power device. 1,737,530; Nov. 26.
- Webb, Quincy C., Kaw City, and G. Carlton, assignors of one-third to F. T. McCoy, Pawhuska, Okla. Tube rack for derricks. 1,718,395; June 25.
- Webb, Solon N. (See Hardick, William H., assignor.)
- Webb, Thomas E., assignor of one-half to J. R. Hiller, San Francisco, Calif. Toy pistol. 1,729,917; Oct. 1.
- Webb, Walter, Whangarei, New Zealand. Cream-separator-driving means. 1,704,778; Mar. 12.
- Webb, William E., Larchmont, N. Y. Neckwear. 1,712,098; May 7.
- Webber, Allen. (See Hines, Michael J., assignor.)
- Webber, Charles E., Pontiac, Ill. Harrow. 1,703,376; Feb. 26.
- Webber, George R., Augusta, Me. Coin-control lock. 1,725,497; Aug. 20.
- Webber, George S., Chicago, Ill. Identification tag. 1,713,153; May 14.
- Webber, George S., Chicago, Ill. Necktie holder. 1,730,834; Oct. 8.



- Webber, James F., Chelsea, assignor to American Glue Company, Boston, Mass. Sanding wheel. 1,697,442; Jan. 1.
- Webber, Otis M., Winona, Minn. Automobile screen. 1,704,157; Mar. 5.
- Webber, Walter P., Lynn, Mass. Necktie holder. 1,706,012; Mar. 19.
- Webber, William, La Grange, Ill., assignor to International Harvester Company. Shaft mounting and apron tightener for conveyers. 1,709,549; Apr. 16.
- Webber, William, La Grange, Ill., assignor to International Harvester Company. Tilting device for harvester platforms. 1,721,680; July 23.
- Webber, William, La Grange, Ill., assignor to International Harvester Company. Bearing box. 1,737,816; Dec. 3.
- Weber, Albert, Providence, R. I. Illuminated writing implement. 1,722,238; July 23.
- Weber, Carl, Goppingen, Wurttemberg, Germany. Machine for gluing veneer strips and similar work. 1,702,185; Feb. 12.
- Weber, Carl, assignor to Shore-Line Builders, Inc., Jacksonville, Fla. Bulkhead-wall construction. 1,739,108; Dec. 10.
- Weber, Charles A. (See Shelton, D. J., and Weber.)
- Weber, Clarence J., and R. A. Seek, assignors to National Brick Company, Chicago, Ill. Hoist. 1,728,460; Sept. 17.
- Weber Electric Company. (See Dunham, William G., assignor.)
- Weber Electric Company. (See Fabrey, William H., assignor.)
- Weber Electric Company. (See Weber, John, assignor.)
- Weber, Emil R. (See Burnham, L. F., Slocum, and Weber.)
- Weber, Engelbert, Union City, N. J. Radio tube case. 1,704,414; Mar. 5.
- Weber Engine Company. (See Gold, Samuel B., assignor.)
- Weber, Frank S., assignor to Frank S. Betz Company, Hammond, Ind. Sterilizer. 1,697,335; Jan. 1.
- Weber, Frederick C., Tuckahoe, N. Y., and W. H. Randall, Pekin, Ill., assignors to The Fleischmann Company, New York, N. Y. Maltose process and product. 1,722,775; July 30.
- Weber, Frederick J., Los Angeles, Calif., assignor to The Weber Incinerator Co. Slab incinerator with interconnected door control. 1,721,936; July 23.
- Weber, Friedrich W., Hackensack, N. J. Catalyst. 1,693,009; Jan. 8.
- Weber, Friedrich W., Bochum, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Arrangement for securing railway rails. 1,729,465; Sept. 24.
- Weber, Fritz. (See Laska, L., and Weber.)
- Weber, Fritz. (See Laska, L., Krecke, and Weber.)
- Weber, Harry M., Bloomfield, N. J., assignor to Ellis-Foster Company. Saponified composition. 1,719,251; July 2.
- Weber, Harry M., assignor to Ellis-Foster Company, Montclair, N. J. Plasticized molding composition and making same. 1,720,406; July 9.
- Weber, Harry M., Bloomfield, N. J., assignor to Ellis-Foster Company. Composition of matter comprising resin esters. 1,722,776; July 30.
- Weber, Henry C. P., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phthalic glyceride resin and making same. 1,715,683; June 4.
- Weber, Henry E., Canton, Ohio. Dental engine. 1,714,412; May 21.
- Weber, Henry E., Canton, Ohio. Headrests. 1,728,025; Sept. 10.
- Weber, Henry E., assignor, by mesne assignments, to W. C. Sweezy, Indianapolis, Ind. Steering-gear stabilizer. 1,738,857; Dec. 10.
- Weber, Herbert, Los Angeles, Calif. Frame for bicycles and the like. 1,725,838; Aug. 27.
- Weber, Hermann, Spiez, Switzerland. Rotary compressor. 1,705,653; Mar. 19.
- Weber Incinerator Co., The. (See Weber, Frederick J., assignor.)
- Weber, John, assignor to Weber Electric Company, Schenectady, N. Y. Electric fixture. 1,715,804; June 4.
- Weber, Joseph, and L. G. Morten, Jersey City, N. J. Machine for filling baking pans. 1,715,968; June 4.
- Weber, Joseph D., Mykawa, Tex. Plow. 1,702,142; Feb. 12.
- Weber, Julius, Neuhausen, and H. Hauser, Wilchingen, assignors to Aluminum Industrie Aktiengesellschaft, Neuhausen, Switzerland. Producing aluminum. 1,709,759; Apr. 16.
- Weber, Karl A., Los Angeles, Calif. Windshield wiper. 1,738,545; Dec. 10.
- Weber, Karl A., assignor to Weber Showcase & Fixture Company, Los Angeles, Calif. Drying paints, varnishes, shellac, stains, etc. 1,706,554; Mar. 26.
- Weber, Karl A., assignor to Weber Showcase & Fixture Company, Los Angeles, Calif. Soda fountain. 1,713,795; May 21.
- Weber, Karl A., Los Angeles, Calif., assignor to International Glass Machinery Co. Beveling the edges of glass plates. 1,728,647; Sept. 17.
- Weber, Karl A., assignor to Weber Showcase & Fixture Company, Los Angeles, Calif. Refrigerated show case. 1,730,488; Oct. 8.
- Weber, Kurt. (See Nauman, P., and Weber.)
- Weber, Louis, sr., Philadelphia, Pa. Hosiery. Des. 78,320; Apr. 16.
- Weber, Louis J., Schenectady, N. Y., assignor to General Electric Company. Electric switch mechanism. 1,742,109; Dec. 31.
- Weber, Mathias J., assignor to Health-O-Meter Company, Chicago, Ill. Scale casing. Des. 79,578; Oct. 8.
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Body-measuring device. 1,741,174; Dec. 31.
- Weber, Max, Eupen, Belgium. Device for preventing doubles in spinning machines. 1,728,707; Sept. 17.
- Weber, Otto C., Columbiana, Ohio. Ratchet tool. 1,723,223; Aug. 6.
- Weber, Owen T., et al. (See Olson, Samuel, assignor.)
- Weber, Peter, Philadelphia, Pa. Tube jack. 1,696,991; Jan. 1.
- Weber, Peter, Cheyenne, Wyo. Adjustable stand. 1,715,260; May 28.
- Weber, Richard, Dresden-Ubigau, Germany. Producing baskets and the like. 1,704,876; Mar. 12.
- Weber Showcase & Fixture Company. (See Weber, Karl A., assignor.)
- Weber, Walter, Dusseldorf, and M. Jacobi, Benrath-on-the-Rhine, Germany. Purifying chemicals. 1,722,871; July 30.
- Weber, Walter H., Highland Park, assignor to Detroit Lubricator Company, Detroit, Mich. Carburetor. 1,718,769; June 25.
- Weber, Walter S., assignor to Wm. H. Luden, Inc., Reading, Pa. Conveyor mechanism. 1,714,533; May 28.
- Weber, Walter S., assignor to Wm. H. Luden, Inc., Reading, Pa. Carton-filling mechanism. 1,714,534; May 28.
- Weke, Charles, New York, N. Y. Lamp shade. Des. 79,344; Sept. 3.
- Webster, Carl S., Haverhill, Mass. Snowplow. 1,727,186; Sept. 3.
- Webster Electric Company. (See Hawkins, William W., assignor.)
- Webster Electric Company. (See Shivers, Paul F., assignor.)
- Webster, F. S., Company. (See Quartz, James, assignor.)
- Webster, Frank M., Wellesley Farms, assignor to W. D. Cashin Co., Boston, Mass. Boiler feeder. 1,707,205; Mar. 26.
- Webster, Frank M., Wellesley Farms, assignor to W. D. Cashin Co., Boston, Mass. Return trap. 1,714,199; May 21.
- Webster, Frank P., Toronto, Ontario, assignor of one-third to H. Obee, Toronto, Canada. Head lamp. 1,721,611; July 23.
- Webster, George C., Halifax, Nova Scotia, Canada. Separator. 1,697,743; Jan. 1.
- Webster, George G. and W. S., Los Angeles, Calif. Golf-club construction. 1,720,867; July 16.
- Webster, Harry A., assignor to Armstrong Cork Company, Lancaster, Pa. Actuating mechanism for multiple-block printing heads. 1,737,817; Dec. 3.
- Webster, Harry G., Chicago, Ill. Ignition-coil lock. 1,731,993; Oct. 15.
- Webster, Howard M., Chicago, Ill., assignor to The Yoder-Morris Company, Cleveland, Ohio. Liquid-fuel burner. 1,697,254; Jan. 1.
- Webster, Hyleman A., Columbia, Tenn., assignor of one-half to E. T. Schuler, Gadsden, Ala. Apparatus for producing synthetic hydrocarbons and alcohols. 1,711,913; May 7.
- Webster, Joseph B. (See Morton, J., and Webster.)
- Webster, Melvin L., Independence, Iowa. Display and shipping device. 1,739,623; Dec. 17.
- Webster, Raymond. (See Gleason, J. E., Finsen, and Webster.)
- Webster, Thomas, Lowell, Mass. Spinning-frame-lubricating device. 1,728,708; Sept. 17.
- Webster, Walter O., Westmont, N. J. Relief valve. 1,739,430; Dec. 10.
- Webster, William S. (See Webster, George G. and W. S.)
- Webster, William S., Roslindale, assignor to Wireless Specialty Apparatus Company, Boston, Mass. Communication device. 1,708,490; Apr. 9.
- Webster, William V., Ottawa, Ontario, Canada. Door-check. 1,711,626; May 7.
- Wechsberg, Anna M., et al., trustees. (See Coppus, Frans H. C., assignor.)
- Wechsler, Harry F. (See Shemitz, R. B., and Wechsler.)
- Weckbaugh, Joseph V., assignor to American Cuptor Corporation, New York, N. Y. Manufacture of paper cups. 1,717,427; June 18.
- Weckerle, Ferdinand, assignor to Studiengesellschaft fuer Wirtschaft u. Industrie m. b. H., Munich, Germany. Using ultra-violet rays to aid the process of combustion in combustion motors, etc. 1,727,919; Sept. 10.
- Weckler, Arthur L. (See Ruffin, A. F., and Weckler.)
- Weckstein, Samson M., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car journal-bearing construction. 1,720,457; July 9.
- Weddige, William H., et al. (See Schenk, Herman, assignor.)
- Wedberg, Reuben, assignor to Alemite Corporation, Chicago, Ill. Lubricant nozzle. 1,725,234; Aug. 20.
- Wedberg, Reuben, assignor to Alemite Corporation, Chicago, Ill. Nipple. 1,731,803; Oct. 15.
- Wedger, Walter L., Belmont, assignor to Central Railway Signal Company, Newton, Mass. Safety railway signal torpedo and making the same. 1,704,231; Mar. 5.



- Wedgewood, Josiah, & Sons, Inc., of America. (See Goodwin, John E., assignor.)
- Weed, Emil W., Raymond, Alberta, Canada. Wagon-loading apparatus. 1,705,431; Mar. 12.
- Weed, Frank L., Quincy, Mass. Motorized handsaw. 1,704,641; Mar. 5.
- Weed, Howard L., Detroit, Mich. Internal-Combustion rotary engine. 1,726,461; Aug. 27.
- Weed, James M., Ballston Lake, N. Y., assignor to General Electric Company. Well rod and making the same. 1,734,932; Nov. 5.
- Weed, James M., Scotia, N. Y., assignor to General Electric Company. Electric-arc welding. 1,740,381; Dec. 17.
- Weeden Manufacturing Co. (See Ritchie, William, assignor.)
- Weedon, John C. (See Weedon, Richard E. and J. C.)
- Weedon, Richard E. and J. C., Washington, D. C. Rail and wheel-flange lubricator. 1,701,549; Feb. 12.
- Week, Edmund R., jr., et al. (See Fanger, Herman J., assignor.)
- Week, Edmund R., sr., et al. (See Fanger, Herman J., assignor.)
- Weeks, James R., and H. A. Greenwald, Detroit, Mich., assignors to Whitehead and Kales Company, River Rouge, Mich. Grid for ice pans. 1,738,162; Dec. 3.
- Weeks, John C. (See Stevens, M., Weeks, and Davidson.)
- Weeks, Paul T., Caldwell, N. J., assignor to Westinghouse Lamp Company. Mount for electron devices. 1,731,282; Oct. 15.
- Weeks, Ray B., Cleveland, Ohio, assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Glare shield for electric welding. 1,716,096; June 4.
- Weeks, Ray B., Cleveland, Ohio, assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Pinion shaft and method of making. 1,718,721; June 25.
- Weems, Dennis A. (See Barrett, T. H., and Weems.)
- Wefel, William C. H., Edgewater, Colo. Trolley-wire contact. 1,711,862; May 7.
- Wegel, Raymond L., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. 1,704,354; Mar. 5.
- Wegel, Raymond L., assignor to Western Electric Company, Incorporated, New York, N. Y. Cone loud-speaker. 1,710,249; Apr. 23.
- Wegner, Julius, New York, N. Y. Machine for treating stone. 1,722,724; July 30.
- Wegner, Julius, Astoria, assignor to Spadone Machine Company, Inc., New York, N. Y. Cutting machine. 1,732,704; Oct. 22.
- Wego, Peter C., St. Paul, Minn. Tray elevator. 1,736,472; Nov. 19.
- Wezo, Peter C., assignor to Standard Conveyor Company, St. Paul, Minn. Lubricating means for conveyor rollers. 1,737,036; Nov. 26.
- Wehnert, August C., assignor to the Firm Universelle Cigarettenmaschinenfabrik J. C. Muller & Co., Dresden, Germany. Introducing materials between rollers. 1,719,035; July 2.
- Wehr, Arthur J., J. W. Sheeres, Fort Monmouth, N. J., and A. V. Elliot, Langley Field, Va. Sign. 1,732,822; Oct. 22.
- Wehr Co. (See Myers, Edward C., assignor.)
- Wehr, Earl R., and C. C. Mahlie, Middletown, Ohio, and J. R. Cain, Washington, D. C., assignors to The American Rolling Mill Company, Middletown, Ohio. Metal coating metal sheets. 1,722,949; July 30.
- Wehr, Earl R., and C. C. Mahlie, assignors to The American Rolling Mill Company, Middletown, Ohio. Metal coating metal sheets. 1,741,388; Dec. 31.
- Wehr Motor Company, The. (See Wehr, Rudolph, assignor.)
- Wehr, Rudolph, Los Angeles, Calif., assignor to The Wehr Motor Company. Valve construction. 1,697,098; Jan. 1.
- Wehr, Rudolph, Los Angeles, Calif., assignor to The Wehr Motor Company. Valve construction. 1,724,239; Aug. 13.
- Wehr, William G., East Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Welded joint. 1,740,053; Dec. 17.
- Wehringer, Herman H., Montclair, N. J. Detachable lock for removable sections of antiskid chains. 1,740,847; Dec. 24.
- Wehrle Company, The. (See Pickup, George E., assignor.)
- Wehrle, George M., Jackson, Calif. Joint sealing. 1,716,994; June 11.
- Wehse, Christine, Los Angeles, Calif. Ear ornament. 1,732,250; Oct. 22.
- Weibull, Ernst H. W., Stockholm, Sweden. Mechanical movement. 1,713,064; May 14.
- Weichelt, Carl L., assignor to Wirt Company, Philadelphia, Pa. Current regulator for electric lamps. 1,720,501; July 9.
- Weichelt, Carl L., and H. F. Gill, assignors to Wirt Company, Philadelphia, Pa. Rheostat fixture for electric lights. 1,715,396; June 4.
- Weichelt, Carl L., and H. F. Gill, assignors to Wirt Company, Philadelphia, Pa. Electric-lamp-fixture mounting. 1,724,538; Aug. 13.
- Weichelt, Frederick C., and P. S. Turnbull, assignors of one-fourth to P. E. Weichelt, Preston, and one-fourth to R. H. Woodcock, Dandenong, Victoria, Australia. Apparatus for use in manufacturing leather stiffeners for the heels and toes of boots and shoes. 1,697,548; Jan. 1.
- Weichelt, Pattie E., et al. (See Weichelt, F. C., and Turnbull, assignors.)
- Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current dynamo-electric machine. 1,698,976; Jan. 15.
- Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,712,237; May 7.
- Weichsel, Sol, Los Angeles, Calif. Panel for lighting fixtures. Des. 79,679; Oct. 22.
- Weichsel, William C., Wheeling, W. Va., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Package. 1,697,891; Jan. 8.
- Weickel, Philipp, Coblenz, Germany. Bottle stopper with drip pipette secured thereto and extending into the bottle, and air admission. 1,700,781; Feb. 5.
- Weicker, Carl H., Toronto, Ontario, Canada, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling-ball return check. 1,700,007; Jan. 22.
- Weickman, Albert, Harrison, and C. S. Olmsted, Mount Vernon, N. Y. Resilient support for cushion seats. 1,701,831; Feb. 12.
- Weida, Harry W., Plainfield, N. J., assignor to American Hard Rubber Company, New York, N. Y. Valve for flush tanks. 1,717,423; June 18.
- Weide, Rudolf, assignor to Hermann Hurwitz & Co., Berlin, Germany. Printing press. 1,709,812; Apr. 16.
- Weidenbach, Herman A., Buffalo, N. Y. Universal joint. 1,719,411; July 2.
- Weidenfeld, Samuel, New York, N. Y. Game device. 1,730,310; Oct. 1.
- Weidenhagen, Rudolf. (See Spengler, O., and Weidenhagen.)
- Weidenhoff, Joseph, Incorporated. (See Haskins, Butler J., assignor.)
- Weidler, Claude. (See Romig, William H., assignor.)
- Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
- Weidlich Bros. Mfg. Co., The. (See Weidlich, L., Tracy, and Flauder, assignors.)
- Weidlich, Louis, Stratford, Conn. Cigarette dispenser. 1,729,918; Oct. 1.
- Weidlich, Louis, and M. F. Tracy, Stratford, and A. J. Flauder, Fairfield, assignors to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Manufacturing dies. 1,709,048; Apr. 16.
- Weidlich, Louis, and M. F. Tracy, Stratford, and A. J. Flauder, Fairfield, assignors to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Manufacturing hollow ware of silver or the like. 1,717,482; June 18.
- Weidmann, Lucien, and E. Tittel, Basel, Switzerland. Fire-extinguishing arrangement. 1,734,186; Nov. 5.
- Weidner, Herman C. H. (See Wilson, Lawrence A., assignor.)
- Weidner, Nathan, Brooklyn, N. Y. Server. 1,718,015; June 18.
- Weidner, Nathan, Bronx, N. Y. Atomizer. 1,737,442; Nov. 26.
- Weidner, Victor. (See d'Humy, F. E., and Weidner.)
- Weigel, General W., et al. (See Visitacion, Aniceto R., assignor.)
- Weigel, General William, et al. (See Visitacion, Aniceto R., assignor.)
- Weigel, Louis G., et al. (See Visitacion, Aniceto R., assignor.)
- Weigel, Raymond E., Berkeley, Calif. Toy balloon. 1,703,463; Feb. 26.
- Weigel, Wallace A., et al. (See Seume, Herman A., assignor.)
- Weigle, Edmund, Bergenfield, N. J., assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Central-station apparatus for pneumatic-dispatch systems. 1,711,511; May 7.
- Weigle, Edmund, Bergenfield, N. J., assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Carrier for pneumatic-tube systems. 1,712,536; May 14.
- Weigle, William A. (See Higinbotham, Arthur O., assignor.)
- Weightman, John S., assignor to Gaskell & Chambers Limited, Birmingham, England. Measuring tap. 1,719,348; July 2.
- Weightograph Company, The. (See Hamblin, Fred B., assignor.)
- Weihe, Charles. (See Weihe, Clyde R., assignor.)
- Weihe, Clyde R., assignor of one-half to C. Weihe, Connelville, Pa. Treating continuously-moving material. 1,742,110; Dec. 31.
- Weihe, Frederick W., Byron, Calif. Pullman car. 1,701,867; Feb. 12.
- Weik, Oscar, Wausau, Wis. Container. 1,702,677; Feb. 19.
- Weikert, Edward J., Offerle, Kans. Sign. 1,730,701; Oct. 8.
- Weil, Blanche, executrix. (See Watt, William W.)
- Weil Clothing Company. (See Weil, Ralph, assignor.)
- Weil, Joseph. (See Watt, William W., assignor.)
- Weil, Lester I. (See Bassett, Millson M., assignor.)
- Weil, Ralph, assignor to Weil Clothing Company, St. Louis, Mo. 1,697,892; Jan. 8.
- Weiland, Alfred, Neshanic, N. J., and C. A. Mezger, Brooklyn, assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Card-testing device. 1,712,183; May 7.
- Weiland, Henry J. (See Gubelmann, I., Weiland, and Stallmann.)



- Weiland, Henry J., and I. Gubelmann, South Milwaukee, assignors to The Newport Company, Carrollville, Wis. Obtaining alpha-naphthylamine from a mixture of alpha and beta naphthylamines. 1,722,026; July 23.
- Weiland, James F., Otter Creek, Iowa. Multiple switch. 1,699,172; Jan. 15.
- Weiler, Andrew B., Brooklyn, N. Y. Type-clamping attachment for chases. 1,732,074; Oct. 15.
- Weiler, Joseph C., assignor to Bauman-Massa Jewelry Company, St. Louis, Mo. Finger ring. Des. 79,396; Sept. 10.
- Weiler, Max, Leverkusen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Dyestuffs of the pyrone series and making the same. 1,715,261; May 28.
- Weiler, Max, Wiesdorf-on-the-Rhine, and B. Wenk and H. Stötter, Leverkusen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Condensation product from p-halogenated phenolic compounds and aldehydes. 1,707,181; Mar. 26.
- Weiler, Wilhelm, Berlin-Niederschonhausen, Germany, assignor to General Electric Company. Dynamo-electric machine. 1,717,289; June 11.
- Weiler, Wilhelm, Niederschonhausen, Germany, assignor to General Electric Company. Induction-motor-control system. 1,717,290; June 11.
- Weiler, Wilhelm, Niederschonhausen, Berlin, Germany, assignor to General Electric Company. Induction-motor-control system. 1,719,917; July 9.
- Weiler, Wilhelm, Niederschonhausen, Berlin, Germany, assignor to General Electric Company. Power-factor regulator. 1,722,166; July 23.
- Weiller, Paul L., Paris, France. Radio internal-combustion engine. 1,733,037; Oct. 22.
- Weimar, Michael P., Philadelphia, Pa. Universal clamping bung or plug for steel drums. 1,698,485; Jan. 8.
- Weimar, Robert, Seattle, Wash. Transposition pin. 1,712,860; May 14.
- Weimer, Rudolph, Sheboygan, Wis. Enameling composition. 1,706,866; Mar. 26.
- Weimer, Walter. (See Peebles, Joseph L., assignor.)
- Wein, Samuel, assignor to Radio Patents Corporation, New York, N. Y. Photo-electric cell. 1,720,654; July 9.
- Weinand, Klaus, Cologne-Flittard, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Making 1-4-diarylamino-5-8-dihydroxyanthraquinone. 1,713,576; May 21.
- Weinand, Klaus, Flittard, near Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Homonuclear amino-allylamino-anthraquinone sulphonic acids and making the same. 1,735,147; Nov. 12.
- Weinberg, Frederick, Detroit, Mich. Feed apparatus for internal-combustion engines. 1,732,251; Oct. 22.
- Weinberg, Harris, Leeds, England. Machine or apparatus for use in supporting animals while being slaughtered. 1,701,902; Feb. 12.
- Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Method of and arrangement for stray elimination in radio communication. 1,723,391; Aug. 6.
- Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Broadcast receiving system. 1,725,946; Aug. 27.
- Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Electrical distribution system. 1,735,148; Nov. 12.
- Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Method of and arrangement for stray elimination in radio communication. 1,738,337; Dec. 3.
- Weindel, Anton, assignor to Z. M. Stinnes, Essen-Ruhr, Germany. Separating oil from coal tar. 1,722,872; July 30.
- Weindel, Anton, assignor to Z. M. Stinnes, Essen-Ruhr, Germany. Obtaining lubricating oils and phenols from coal tar. 1,726,638; Sept. 3.
- Weindel, Fred, jr., assignor to L. F. Grammes & Sons, Inc., Allentown, Pa. Utility box. 1,713,495; May 14.
- Weindel, Fred, jr., assignor to L. F. Grammes & Sons, Inc., Allentown, Pa. Card-holding device. 1,731,692; Oct. 15.
- Weiner, Emil, and H. Katins, New York, N. Y. Textile fabric. Des. 80,000; Nov. 26.
- Weiner, George S. (See Weiner, Morris and G. S.)
- Weiner, Morris and G. S., Chicago, Ill. Said Morris Weiner assignor to said G. S. Weiner. Adjustable garment. 1,709,508; Apr. 16.
- Weiner, Rudolph S., El Paso, Tex., assignor to Sullivan Machinery Company. Rock-drilling tool. 1,707,649; Apr. 2.
- Weinert, Helmut, Dresden-Kotzschbroda, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric machine with variable pole numbers. 1,711,979; May 7.
- Weingand, Richard. (See Czapek, E. and Weingand.)
- Weingartner, Anthony E., Bethlehem, Pa., assignor to American Engineering Company, Philadelphia, Pa. Balanced-lever mechanism for automatic fluid-control systems. 1,717,291; June 11.
- Weingartner, Anthony E., Bethlehem, assignor to American Engineering Company, Philadelphia, Pa. Quick-acting safety abutment. 1,738,409; Dec. 3.
- Weinland, Hermon G., assignor to The Safety Grinding Wheel and Machine Company, Springfield, Ohio. Grinding machine. 1,737,485; Nov. 26.
- Weinman, Erwin A., and R. C. Beach, Seattle, Wash. Resilient cushion. 1,711,255; Apr. 30.
- Weinman, George, jr., Abington, assignor to Kensington Machine Works, Philadelphia, Pa. Pile wire. 1,697,154; Jan. 1.
- Weinman, Rudolph A., Schenectady, N. Y., assignor to General Electric Company. Welding torch. 1,708,003; Apr. 9.
- Weinmann, William L., San Francisco, Calif. Electric bottle warmer. 1,717,132; June 11.
- Weinrich, Morris F., Leonia, N. J., assignor to Silverice, Inc. Refrigerating device. 1,727,187; Sept. 3.
- Weinrich, William, Honolulu, Hawaii. Insect trap. 1,703,022; Feb. 19.
- Weinschenker, Charles. (See Weinschenker, Gabriel, assignor.)
- Weinschenker, Gabriel, New York, N. Y., assignor to Charles Weinschenker, New York State. Telegraph decipherer. 1,727,845; Sept. 10.
- Weinstein, Louis J., New York, N. Y. Composition for dental molds. 1,708,436; Apr. 9.
- Weinstein, Morris, Passaic, N. J. Outlet box and support. 1,699,414; Jan. 15.
- Weinstein, Morris, Passaic, N. J., assignor to Lincoln Electrical Supply Co. Adjustable strap for electric-lighting fixtures. 1,703,649; Feb. 26.
- Weinstein, Morris B., and J. W. D. Cook, Steubenville, Ohio. Bag and fastener therefor. 1,719,347; July 2.
- Weinstein, Otto, assignor to Standard Neckwear Company, Boston, Mass. Making neckties. 1,718,722; June 25.
- Weintz, Jacob, assignor to The Strong, Carlisle and Hammond Company, Cleveland, Ohio. Electric furnace. 1,730,103; Oct. 1.
- Weir, Claude V., Toronto, Ontario, Canada. Scale. 1,713,728; May 21.
- Weir, G. & J., Limited. (See Weir, James G., assignor.)
- Weir, Harry N., assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Pulping machine. 1,724,441; Aug. 13.
- Weir, James G., Cathcart, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Closed feed system for steam power plants. 1,738,507; Dec. 3.
- Weir, James W. (See Black, J. C., and Weir.)
- Weir, Max W., Newark, N. J. Boat-propelling means. 1,738,410; Dec. 3.
- Weir, Robert S., Greenfield, Mo. Phonograph arm. 1,721,362; July 16.
- Weir, Wilson W., Brooklyn, N. Y. Rotatable toothbrush. 1,710,525; Apr. 23.
- Weirich, Peter J., Chicago, Ill. Printing-press detail. 1,700,917; Feb. 5.
- Weis, Charles L., jr., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secret communicating system. 1,725,032; Aug. 20.
- Weis, Gabriel, Bremen-Horn, assignor to Deutsche Schiff- und Maschinenbau Aktiengesellschaft, Bremen, Germany. Power-transmission gear. 1,740,756; Dec. 24.
- Weis, Henry T., Rivesville, W. Va. Air gun for tube cleaning. 1,715,442; June 4.
- Weis, Samuel W. (See Gentile, Marino, assignor.)
- Weis, John A., Oakland, Calif. Toothbrush. 1,706,555; Mar. 26.
- Weis, John A., Chicago, Ill. Jet-propelled boat. 1,716,400; June 11.
- Weis, John A., Chicago, Ill., assignor, by mesne assignments, to Convenience Products Corporation. Telephone attachment. 1,707,452; Apr. 2.
- Weis, John P., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Wire fabric and making the same. 1,710,669; Apr. 23.
- Weis, John P., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Puller-feed sewing machine. 1,736,297; Nov. 19.
- Weis, John P., assignor to Metropolitan Sewing Machine Corporation, Nyack, N. Y. Combined top-feed and ruffler mechanism for cylinder sewing machines. 1,736,298; Nov. 19.
- Weisbarth, John, Madison Township, Richland County, assignor of one-third to H. J. Hoffman and one-third to C. W. Laubscher, Mansfield, Ohio. Wax heating and sealing device. 1,714,147; May 21.
- Weisberg, Louis. (See Kietz, A., Greenwald, and Weisberg.)
- Weisberger, Arthur A., Chicago, Ill. Automatic gas-stove lighter. 1,717,749; June 18.
- Weise, Paul, Wiesdorf, near Cologne-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of chromium compounds. 1,723,536; Aug. 6.
- Weise, Paul G. A., and J. Kuhlmann, Lester Prairie, Minn. Cattle stanchion. 1,730,835; Oct. 8.
- Weisenberg, William, assignor to The Halle Brothers Company, Cleveland, Ohio. Ornamental box. 1,735,191; Nov. 12.
- Weisenborn, George P. A., Oak Park, Ill. Baker and roaster. 1,732,347; Oct. 22.
- Weisenfels, Charles W., assignor to American Thermometer Company, St. Louis, Mo. Stove construction. 1,716,473; June 11.
- Weisenfels, Charles W., assignor to American Thermometer Company, St. Louis, Mo. Instrument mounting. 1,734,315; Nov. 5.



- Weisensel, Joseph A. and R. A., Columbus, Wis. Clover rake and piler attachment for mowers. 1,729,314; Sept. 24.
- Weisensel, Reynold A. (See Weisensel, Joseph A. and R. A.)
- Weisenstein, Simon P., Shaler Township, Allegheny County, Pa. Barbecue roaster. Des. 79,448; Sept. 17.
- Weiser, Franklin S., Alton, Ill. Seal for furnaces. 1,698,835; Jan. 15.
- Weisgerber, Charles H., Philadelphia, Pa. Coin bank or similar article. Des. 78,596; May 21.
- Weisgerber, Charles H., Philadelphia, Pa. Combined toy stage and stage setting therefor or similar article. Des. 79,680; Oct. 22.
- Weisgerber, Edwin C., Los Angeles, Calif. Pivotal joint for pipe. 1,717,640; June 18.
- Weisgerber, Edwin C., Long Beach, Calif. Battery clip. 1,720,067; July 9.
- Weishan, Bernhard, Sigmaringen, Germany. Production of soft iron. 1,742,111; Dec. 31.
- Weiskopf, Charles H. (See Viets, F. H., and Weiskopf.)
- Weisner, Harry, Philadelphia, Pa. Seam-pressing machine. 1,725,033; Aug. 20.
- Weiss, Abraham, New York, N. Y. Taximeter vehicle. 1,728,648; Sept. 17.
- Weiss, Benjamin. (See Spanier, J., and Weiss.)
- Weiss, Benjamin, New York, N. Y., assignor of one-tenth to H. G. Littau and W. Seligson. Safety garment hanger. 1,705,276; Mar. 12.
- Weiss, Camillo. (See Hilpert, M. G., and Weiss.)
- Weiss, Carl W., Brooklyn, N. Y. Roller-clutch bearing. 1,724,983; Aug. 20.
- Weiss, Carl W., Brooklyn, N. Y. Power-transmission device. 1,728,383; Sept. 17.
- Weiss, Carl W., Brooklyn, N. Y. Universal joint. 1,728,949; Sept. 24.
- Weiss, Charles, New York, N. Y. Plate or similar article. Des. 77,381; Jan. 1.
- Weiss, Charles, New York, N. Y. Plate or similar article. Des. 77,382; Jan. 1.
- Weiss, Charles, New York, N. Y. Plate or similar article. Des. 77,445; Jan. 8.
- Weiss, Charles, New York, N. Y. Plate or similar article. Des. 77,718; Feb. 12.
- Weiss, Charles, New York, N. Y. Plate or similar article. Des. 77,867; Feb. 26.
- Weiss, Charles, New York, N. Y. Handle for a cup or similar article. Des. 78,238; Apr. 9.
- Weiss, Charles, New York, N. Y. Sugar bowl or the like. Des. 78,239; Apr. 9.
- Weiss, Charles, New York, N. Y. Cup or the like. Des. 78,240; Apr. 9.
- Weiss, Charles, New York, N. Y. Plate or similar article. Des. 78,241; Apr. 9.
- Weiss, Charles, New York, N. Y. Saucer or the like. Des. 78,597; May 21.
- Weiss and Downs, Inc. (See Downs, Charles R., assignor.)
- Weiss and Downs, Inc. (See Weiss, J. M., and Downs, assignors.)
- Weiss, George, assignor, by mesne assignments, to International Cellulose Products Co., Chicago, Ill. Vending machine. 1,702,714; Feb. 19.
- Weiss, George C., and M. J. Weiss, Venice, assignors to Hydruc Corporation, Santa Monica, Calif. Mechanical movement. 1,713,245; May 14.
- Weiss, Howard, Northampton, Pa. Internal-combustion engine. 1,712,861; May 14.
- Weiss, Howard F., Madison, Wis., assignor to The Bauer Brothers Company, Springfield, Ohio. Making wood pulp. 1,711,706; May 7.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Fibrous material and making same. 1,737,282; Nov. 26.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Multiply paper machine. 1,737,283; Nov. 26.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Furring strip. 1,738,469; Dec. 3.
- Weiss, Jacob, Dorchester, Mass. Automobile light. Des. 77,929; Mar. 5.
- Weiss, John M., New York, and C. R. Downs, Yonkers, assignors to Weiss and Downs, Inc., New York, N. Y. Composition of soap paste. 1,709,294; Apr. 16.
- Weiss, Karl W., Yonkers, N. Y. Nonskid armor for tires. 1,737,531; Nov. 26.
- Weiss, Louis T., Jr., Brooklyn, N. Y. Retainer for removable rotary bodies. 1,714,535; May 28.
- Weiss, Marie J. (See Weiss, George C. and M. J.)
- Weiss, Max, Chicago, Ill., assignor to Queen Anne Candy Company, Hammond, Ind. Cellophane bag. 1,736,191; Nov. 19.
- Weiss, Morris L., Newark, N. J., assignor to Dovan Chemical Corporation, New York, N. Y. Vulcanizing rubber and products obtained thereby. 1,705,948; Mar. 19.
- Weiss, Paul, Paris, assignor to Société des Mines de Frankenholtz, Paris, Department of the Seine, Combustion chamber for use with powdered fuel. 1,705,383; Mar. 12.
- Weiss, Paul F., assignor of one-half to H. J. Peterson, Chicago, Ill. Electric heating apparatus. 1,714,578; May 28.
- Weiss, Rudolph. (See Marx, Carl, assignor.)
- Weissberg, Hymen D., New York, N. Y. Combined shade and flower holder. 1,718,266; June 25.
- Weissenborn, Albert. (See Knorr, A., and Weissenborn.)
- Weisser, Charles, Brooklyn, N. Y. Game apparatus. 1,709,420; Apr. 16.
- Weisz, David, New York, N. Y. Combination garment and carrier bag. 1,702,143; Feb. 12.
- Weith, Archie J., Evanston, Ill., assignor to Bakelite Corporation, New York, N. Y. Phenolic condensation products and making the same. 1,699,727; Jan. 22.
- Weith, Archie J., Evanston, and O. Holzman, Chicago, Ill., assignors to Bakelite Corporation, New York, N. Y. Molding mixture and making same. 1,720,192; July 9.
- Weith, Archie J., Caldwell, V. E. Meharg, Bloomfield, N. J., and H. W. Ahlbeck, Riverside, Ill., assignors to Bakelite Corporation, New York, N. Y. Making formaldehyde. 1,738,745; Dec. 10.
- Weitling, William W. (See Dale, Robert B., assignor.)
- Weitling, William W., trustee. (See Dale, Robert B., assignor.)
- Weitz, Otto E., Hitchcock, Okla. Door check. 1,723,392; Aug. 6.
- Weitzner, Geza, New York, N. Y. Obstetric device. 1,711,294; Apr. 30.
- Welch, Albert G., assignor to S. L. Woods, Chicago, Ill. Metal blank for side bearings. 1,734,356; Nov. 5.
- Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Centrifugal switch. 1,713,203; May 14.
- Welch, Charles H., Portland, Oreg. Tire inflating and deflating valve.
- Welch, Frank J., St. Louis, Mo., O. G. Hawkins, and J. G. Hagenlocker, East St. Louis, Ill., assignors to L. A. Hawkins, Springfield, Mo. Valve. 1,723,973; Aug. 6.
- Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Recovery of tin and similar functioning metals from materials containing the same. 1,729,196; Sept. 24.
- Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Method and apparatus for removing certain constituents from metal-bearing materials. 1,730,548; Oct. 8.
- Welch, Henry E., Delaware, assignor of one-half to G. Kretzler, Columbus, Ohio. Sliding valve for gasoline engines. 1,722,873; July 30.
- Welch, Horace H., New York, N. Y. Composite gem. 1,730,257; Oct. 1.
- Welch, Horace H., New York, N. Y., assignor to Stromberg Motor Devices Co., Chicago, Ill. Indicating liquid level. 1,725,552; Aug. 20.
- Welch, Jack T., assignor to James Heddon's Sons, Dowagiac, Mich. Fishing reel. 1,715,803; June 4.
- Welch, Jack T., assignor to James Heddon's Sons, Dowagiac, Mich. Fishing reel. 1,735,026; Nov. 12.
- Welch, John H. (See Dustan, E., and Welch.)
- Welch, Livingston, New York, N. Y. Collapsible stringed instrument. 1,699,384; Jan. 15.
- Welch, Oliver P., St. Ignace, Mich. Rest and exercising appliance for infants. 1,738,411; Dec. 3.
- Welch, Robert O. (See Taaffe, T., and Welch.)
- Welch, Ruth M., Hooker, Okla. Flour sifter. 1,704,583; Mar. 5.
- Welch, Sidney A. (See Ryley, C. F., Palmer, and Welch.)
- Welch, Walter H., Bristol, England. Fire remover. 1,720,614; July 9.
- Welch, Walter H., Bristol, England. Device for manipulating tires. 1,720,615; July 9.
- Welcker, Rudolph, assignor of one-fourth to F. G. Neal, Springfield, Mass. Valve. 1,700,111; Jan. 22.
- Welcome, Harold A., assignor to American Mason Safety Tread Company, Lowell, Mass. Making a stair tread and the like. 1,731,514; Oct. 15.
- Welden, Lowell T., Bethany, Mo. Apparatus for singeing hair. 1,720,775; July 16.
- Weldon, Charles F., Lake Geneva, Wis. Printer's quoin chase. 1,740,382; Dec. 17.
- Weldon, Everett D., Hastings-on-Hudson, assignor to Earl Thompson Posture Seating, Inc., New York, N. Y. Chair. 1,716,871; June 11.
- Weldy, Arthur S., Canton, Ohio. Pump. 1,714,148; May 21.
- Welk, Nelson S., assignor to The McBee Binder Co., Athens, Ohio. Filing tray. 1,710,753; Apr. 30.
- Welk, Nelson S., assignor to The McBee Binder Co., Athens, Ohio. Filing tray. 1,710,754; Apr. 30.
- Welk, Nelson S., assignor to The McBee Binder Co., Athens, Ohio. Filing tray. 1,712,238; May 7.
- Welk, Nelson S., assignor to The McBee Binder Company, Athens, Ohio. Compressing means for filing trays. 1,736,810; Nov. 26.
- Well, Charles, Lemmon, S. Dak. Dumping attachment for harvesters and headers. 1,708,437; Apr. 9.
- Wellech, Edmund, assignor to Corning Glass Works, Corning, N. Y. Method and apparatus for spinning glass. 1,738,217; Dec. 3.
- Wellensiek, Louis H., assignor to Hughes Tool Company, Houston, Tex. Valve support. 1,725,235; Aug. 20.
- Weller, Christian, Atlantic City, N. J. Laying and covering pipes and the like. 1,721,195; July 16.
- Weller, Daniel R. and L. Link, Baton Rouge, La., assignors to Standard Oil Development Company. Coking oils. 1,741,895; Dec. 31.
- Weller, Ernest E. (See Ashton, Pearl F., assignor.)
- Weller, Ernest E., Providence, R. I. Buckle. Des. 79,779; Oct. 29.
- Welling, Matthew J., assignor to O-Cedar Corp'n, Chicago, Ill. Forming can tops. 1,736,422; Nov. 19.



- Wellington, James A., Westmont, assignor of one-half to R. P. Smith, Esq., Johnstown, Pa. Signaling mechanism. 1,737,987; Dec. 3.
- Wellington, John L., Rochester, N. Y. Making slicing knives. 1,728,192; Sept. 17.
- Wellington, Warren, Cincinnati, Ohio. Combination brush and mop holder. 1,728,845; Sept. 17.
- Wellman, Holley G., East Cleveland, Ohio. Crucible-handling device. 1,722,777; July 30.
- Wellman, Howard C., assignor to Eastman Kodak Company, Rochester, N. Y. Projector. 1,704,814; Mar. 12.
- Wellman, Noël T., Ridley Park, Pa., assignor to General Chemical Company, New York, N. Y. Roasting furnace. 1,721,265; July 16.
- Wellman Seaver Morgan Company, The. (See Case, Arthur F., assignor.)
- Wellman-Seaver-Morgan Company, The. (See Thomas, Ivor D., assignor.)
- Wellman Seaver Rolling Mill Company. (See Peters, Mathias, assignor.)
- Wellman, Walter I., and J. M. Dunn, Garden City, Kans. Auto screen. 1,701,024; Feb. 5.
- Wells, Albert B., London, England. Fastening device. 1,734,410; Nov. 5.
- Wells, Burling D. (See Blair, R. S., and Wells.)
- Wells, C. A. M., et al. (See Harvey, Alfred D., assignor.)
- Wells, Daniel D., Albuquerque, N. Mex. Workholder for machine-tool beds. 1,717,641; June 18.
- Wells, David H., Flushing, assignor to International Motor Company, New York, N. Y. Exhaust system for internal-combustion engines. 1,730,869; Oct. 8.
- Wells, Dudley R., Los Angeles, Calif. Selective radio condenser. 1,728,785; Sept. 3.
- Wells, Edgar, Norborne, Mo. Hog ring. 1,718,992; July 2.
- Wells, Emil C., North White Lake, N. Y. Ice-sawing machine. 1,734,888; Nov. 5.
- Wells, Fred B., Rittman, assignor to The Ohio Boxboard Company, Cleveland, Ohio. Paper-stock density regulator. 1,707,966; Apr. 2.
- Wells, Fred B., Rittman, assignor to The Ohio Boxboard Company, Cleveland, Ohio. Method of and apparatus for making paper, boxboard, and the like. 1,718,096; June 18.
- Wells, George A., East Orange, N. J. High-resistance unit. 1,715,879; June 4.
- Wells, George F., San Francisco, Calif. Electric toaster. Des. 77,997; Mar. 12.
- Wells, George F., San Francisco, Calif. Electric toaster. Des. 77,998; Mar. 12.
- Wells, George F., San Francisco and R. R. Morgan, Beverly Hills, Calif. Combination coin receptacle and card holder. Des. 78,598; May 21.
- Wells, George F., San Francisco, Calif. Electrical cooking device. 1,704,270; Mar. 5.
- Wells, George F., San Francisco, and R. R. Morgan, Beverly Hills, Calif. Dispensing devices. 1,714,704; May 28.
- Wells, George F., San Francisco, and R. R. Morgan, Beverly Hills, Calif. Budget bank device. 1,732,452; Oct. 22.
- Wells, George W., Havana, Ark. Cultivator attachment. 1,698,286; Jan. 8.
- Wells, George W., assignor of one-half to Walker Body Company, Amesburg, Mass. Latch for doors. 1,738,338; Dec. 3.
- Wells, Harold D., Glens Falls, N. Y. Pulp screen. 1,722,874; July 30.
- Wells, Harry D., Concord, N. H. Solution-feeding mechanism for concrete mixers. 1,740,324; Dec. 17.
- Wells, James B., Stellacom, Wash. Folding bed. 1,718,506; June 25.
- Wells, Leon M. (See Wagner, R. W., Williams, and Wells.)
- Wells, Martin, Los Angeles, Calif. Arc welding tool. 1,705,884; Mar. 19.
- Wells, Martin, Los Angeles, Calif. Electrode holder. 1,706,907; Mar. 26.
- Wells, Reginald E., East Orange, N. J., assignor to General Motors Corporation, Detroit, Mich. Forming metal. 1,697,035; Jan. 1.
- Wells, Reginald E., East Orange, N. J., assignor to General Motors Corporation, Detroit, Mich. Bearing mounting. 1,700,188; Jan. 29.
- Wells, Rodmann E., Chicago, Ill. Locking device. 1,714,200; May 21.
- Wells, Sidney D. (See Rue, J. D., Wells, and Rawling.)
- Wells, Sidney D., assignor to Paper Mill Laboratories, Inc., Quincy, Ill. Softening vegetable fibers. 1,714,459; May 21.
- Wells-Titusville Corporation. (See Kearns, Michael J., assignor.)
- Wells, Wesley B. (See Snively, C. S., and Wells.)
- Wells, Wesley B., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,712,780; May 14.
- Wells, William F., Three Rivers, Mich. Bone-sawing machine. 1,721,722; July 23.
- Welsbach Traffic Signal Company. (See Keith, William G., assignor.)
- Welser, Brinton, assignor to Chain Belt Company, Milwaukee, Wis. Wheeled conveyer. 1,733,845; Oct. 29.
- Welsh, Charles R. (See Keeler, John M., assignor.)
- Welsh, Chester J., Conneaut, Ohio. Shoe rack. 1,717,133; June 11.
- Welsh, James W. (See Stevens, F. A., and Welsh.)
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,704,232; Mar. 5.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple. 1,705,228; Mar. 12.
- Welsh, James W., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle temple. 1,705,229; Mar. 12.
- Welsh, James W., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,708,198; Apr. 9.
- Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,708,199; Apr. 9.
- Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,708,200; Apr. 9.
- Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,708,201; Apr. 9.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,708,203; Apr. 9.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,708,204; Apr. 9.
- Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,708,209; Apr. 9.
- Welsh, James W., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,734,240; Nov. 5.
- Welsh, James W., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Rim-stretching device for eyeglass and spectacle frames. 1,734,411; Nov. 5.
- Welsh, James W., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,736,951; Nov. 26.
- Welsh, James W., Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,736,952; Nov. 26.
- Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple and making the same. 1,736,953; Nov. 26.
- Welsh, James W., Providence, R. I., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Machine for making spectacle temples. 1,736,955; Nov. 26.
- Welsh, James W., and F. A. Stevens, Providence, R. I., assignors, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y. Making hinges. 1,708,202; Apr. 9.
- Welsh, Ralph B., Burkburnett, Tex. Deep-well pump. 1,699,036; Jan. 15.
- Welsh, Thomas H., et al. (See Harvey, Alfred D., assignor.)
- Welsch, Wilhelm, Berlin-Niederschonhausen, Germany, assignor to General Electric Company. Dynamo-electric-machine armature. 1,742,112; Dec. 31.
- Welsmiller, Frederick A. (See Schneider, G., and Welsmiller.)
- Welsz, Clarence G., Palmyra, Mo. Base for fence posts. 1,706,684; Mar. 26.
- Welte-Mignon Corporation. (See Caroccio, Giuseppe, assignor.)
- Welte-Mignon Corporation. (See Cheek, Tolbert F., assignor.)
- Welte-Mignon Corporation. (See Flaherty, Frederick J., assignor.)
- Welter, Adolf, Dreieringwerke, Germany. Producing soap. 1,719,349; July 2.
- Welter, Eduard. (See Dessauer, F., Petersen, and Welter.)
- Welter, Gustave, assignor to The Bigelow Company, New Haven, Conn. Boiler construction. 1,731,957; Oct. 15.
- Weltman, William C. (See Bartram, T. W., and Weltman.)
- Weltner, Corliss L., assignor of three-fourths to A. H. Mossor, Parkersburg, W. Va. Aeroplane. 1,737,210; Nov. 26.
- Welton, James R., Scranton, Pa. Thread cleaner. 1,711,434; Apr. 30.
- Welton, James R., Scranton, Pa. Thread guide. 1,732,320; Oct. 22.
- Welton, John E. (See Eilar, Dora E., assignor.)
- Welton, Park E., Akron, Ohio. Rubber-masticating machine. 1,701,832; Feb. 12.
- Welty, Albert B., Chicago, Ill., assignor to International Harvester Company. Grain-cleaning mechanism. 1,737,818; Dec. 3.
- Welty, Albert B., Chicago, Ill., assignor to International Harvester Company. Straw-walker rack. 1,740,719; Dec. 24.
- Welty, George D., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Piston and making same. 1,732,573; Oct. 22.
- Wemb Company, The. (See Wagner, Albert G., assignor.)
- Wemett, Frank J., Los Angeles, Calif. Horseshoe. 1,709,509; Apr. 16.
- Wemp, Ernest E., Detroit, Mich. Clutch. 1,700,244; Jan. 29.
- Wemp, Ernest E., Detroit, Mich. Clutch. 1,707,034; Mar. 26.



- Wemp, Ernest E., Detroit, Mich. Clutch construction. 1,717,534; June 18.
- Wemp, Ernest E., Detroit, Mich. Transmission. 1,727,577; Sept. 10.
- Wemp, Ernest E., Detroit, Mich. Clutch. 1,734,101; Nov. 5.
- Wempe, Friedrich. (See Hartmann, O. H., and Wempe.)
- Wemple, Eland E. (See Daesen, J. R., and Wemple.)
- Wendel, Otto W., assignor to Alemite Corporation, Chicago, Ill. Spring-clip cover. 1,725,167; Aug. 20.
- Wendel, Reinhold M., Algion, Greece. Centrifugal concentrator. 1,712,184; May 7.
- Wendell, Evert J., Wayne, Pa. Rotary pump or blower. 1,704,642; Mar. 5.
- Wendell, Evert J., Wayne, Pa. Rotary pump. 1,720,458; July 9.
- Wendell, John H., Topeka, Kans. Bridge for stringed musical instruments. 1,707,069; Mar. 26.
- Wendle, Virgil P., assignor to The Reeves Manufacturing Company, Dover, Ohio. Seam-forming machine. 1,708,343; Apr. 9.
- Wendle, Virgil P., assignor to The Reeves Manufacturing Company, Dover, Ohio. Lock cover. 1,720,110; July 9.
- Wendle, Virgil P., assignor to The Reeves Manufacturing Company, Dover, Ohio. Lock cover for pails. 1,727,087; Sept. 3.
- Wendt, Adolf, Berlin, assignor to Deutsche Gold- und Silberscheideanstalt vormals Roessler, Frankfurt-on-the-Main, Germany. Angled handpiece for dental purposes. 1,711,863; May 7.
- Wendt, Bruno. (See Matthies, O., Dieterle, and Wendt.)
- Wendt, Gerald L., and C. Banta, Chicago, Ill., assignors to Standard Oil Company, Whiting, Ind. Manufacture of a ceresinlike wax. 1,735,555; Nov. 12.
- Wendt, Wesley E., assignor to Delco-Light Company, Dayton, Ohio. Electrical apparatus. 1,727,421; Sept. 10.
- Wendt, William H., Little Falls, Minn. Propeller attachment. 1,719,860; July 9.
- Wenecek, William, New York, N. Y. Cigarette holder. 1,733,212; Oct. 29.
- Wenegrat, Barnet, Millis, Mass. Chair. 1,704,415; Mar. 5.
- Wenetsky, Solomon D., Dorchester, Mass. Sliding caster. 1,704,416; Mar. 5.
- Wengard, Ben, assignor to The Hinson Manufacturing Company, Waterloo, Iowa. Carrying handle for golf bags. 1,727,578; Sept. 10.
- Wengraf & Platzer. (See Magerle, Edmund, assignor.)
- Wenholz, Walter W., assignor to General Railway Signal Company, Rochester, N. Y. Continuous inductive train-control system. 1,706,892; Mar. 26.
- Wenholz, Walter W., assignor to General Railway Signal Company, Rochester, N. Y. Control means for switch machines. 1,742,113; Dec. 31.
- Wening, Frederick, and G. E. Glatthar, Cleveland, Ohio. Shade holder. 1,724,162; Aug. 13.
- Wenk, Berthold. (See Lommel, W., Münzel, Stötter, and Wenk.)
- Wenk, Berthold. (See Rabe, P., Wenk, and Hartmann.)
- Wenk, Berthold. (See Weiler, M., Wenk, and Stötter.)
- Wennagel, George F., and C. Thomas, Baltimore, Md. Heating unit. 1,738,026; Dec. 3.
- Wennagel, George F., and C. Thomas, Baltimore, Md. Car-heating apparatus. 1,697,409; Jan. 1.
- Wennagel, George F., and C. Thomas, Baltimore, Md. Electric car heater. 1,697,443; Jan. 1.
- Wennerstrom, Carl G., Evanston, assignor to Foote Bros. Gear & Machine Co., Chicago, Ill. Speed-reducing gear. 1,725,034; Aug. 20.
- Wenrich, Martin L., Altoona, Pa. Track cleaner. 1,729,754; Oct. 1.
- Wensel, Theodor, Chicago, Ill. Treating long-grained fibrous materials. 1,713,683; May 21.
- Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,702,423; Feb. 19.
- Wensley, Roy J., Edgewood, T. U. White, Pittsburgh, and J. E. Gardner, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,714,966; May 28.
- Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,714,967; May 28.
- Wensley, Roy J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,729,907; Oct. 1.
- Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,740,485; Dec. 24.
- Wensley, Roy J., Edgewood, and T. U. White, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Electrical control system. 1,726,131; Aug. 27.
- Wensley, Roy J., Edgewood, and M. J. Wohlgenuth, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,739,109; Dec. 10.
- Wente, Edward C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,707,545; Apr. 2.
- Wente, Edward C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,722,027; July 23.
- Wente, Edward C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic apparatus. 1,722,347; July 30.
- Wenthe, Herman H., assignor to Meyer & Wenthe, Chicago, Ill. Combination seal press. 1,722,119; July 23.
- Wentorf, Robert H., assignor to West Bend Aluminum Company, West Bend, Wis. Cooking vessel. 1,698,928; Jan. 15.
- Wentorf, Robert H., assignor to West Bend Aluminum Company, West Bend, Wis. Combined handle and cover clamp for cooking vessels. 1,698,929; Jan. 15.
- Wentorf, Robert H., and R. N. Kircher, assignors to West Bend Aluminum Company, West Bend, Wis. Base for cooking utensils. 1,698,926; Jan. 15.
- Wentorf, Robert H., and R. N. Kircher, assignors to West Bend Aluminum Company, West Bend, Wis. Base for cooking utensils. 1,698,927; Jan. 15.
- Wentorf, Robert H., West Bend, Wis., assignor to West Bend Aluminum Company. Cake-baking pan. 1,713,577; May 21.
- Wentorf, Robert H., and R. N. Kircher, assignors to West Bend Aluminum Company. Cooker valve. 1,698,977; Jan. 15.
- Wentworth, Joy V., assignor of one-half to J. J. Long, Long Beach, Calif. Spool puller. 1,717,822; June 18.
- Wentworth, Merton W., assignor to Sanitarium Equipment Company, Battle Creek, Mich. Chair. Des. 78,683; May 28.
- Wentworth, Pearl J., Fort Thomas, Ky. Shank stiffener. 1,715,050; May 28.
- Wentworth, Pearl J., Fort Thomas, Ky. Shoe-sole press. 1,716,287; June 4.
- Wentworth, Pearl J., Fort Thomas, Ky. Making shoes. 1,741,747; Dec. 31.
- Wentworth, Philip C., Providence, R. I. Analyzing ring-traveler functions. 1,717,642; June 18.
- Wentworth, Roland A. (See Bleher, W. C., Willis, and Wentworth.)
- Wentworth, Thomas C., Cornish, Me. Mixing machine. 1,732,891; Oct. 22.
- Wentz, Herbert O., Tiffin, Ohio. Roughing-mill attachment. 1,723,961; Aug. 6.
- Wentz, John A., Crafton, Pa. Device for opening and closing chain links. 1,703,802; Feb. 26.
- Wentz, Sydney C., Spring Grove, Pa., assignor, by mesne assignments, to Paper Machinery Corporation, Dayton, Ohio. Paper making machine. 1,709,760; Apr. 16.
- Wentzel, Carl F., Wheeling, W. Va. Thermostatic signal. 1,711,335; Apr. 30.
- Wentzloff, Herman F., Chicago, Ill. Fruit cutter and picker. 1,735,821; Nov. 12.
- Wenz, John F., Wireton, Pa. Lighting fixture. 1,738,129; Dec. 3.
- Wenzel, Anna M., Brooklyn, N. Y. Gauge and cooperating cutter. 1,726,416; Aug. 27.
- Wenzel, Albert W. (See Wenzel, Jacob B., assignor.)
- Wenzel Edwin H., and M. P. Janisch, Milwaukee, Wis.; said Janisch assignor to said Wenzel. Heat insulation of walls. 1,718,507; June 25.
- Wenzel, Jacob B., Bloom, Colo., assignor to A. W. Wenzel, Newark, N. J. 1,710,250; Apr. 23.
- Wepflo, Henry J., Minneapolis, Minn. Pump. 1,711,914; May 7.
- Werbelicht Aktiengesellschaft. (See Hasse, Max, assignor.)
- Werking, Leroy C. (See Benner, R. C., and Werking.)
- Werkstell, Louis. (See Colognori, Aldo, assignor.)
- Werkstell, Louis, and A. Colognori, Brooklyn, N. Y. Watch. Des. 80,064; Dec. 3.
- Werlein, Ewing, et al. (See Sherman, Carroll J., assignor.)
- Wermine, Hugo H., Villa Park, assignor to Belden Manufacturing Company, Chicago, Ill. Electric plug connector. Des. 77,660; Feb. 5.
- Wermine, Hugo H., Villa Park, assignor to Belden Manufacturing Company, Chicago, Ill. Wiring panel for electrical apparatus. 1,718,993; July 2.
- Wermine, Hugo H., Villa Park, assignor to Belden Manufacturing Company, Chicago, Ill. Spool. 1,739,881; Dec. 17.
- Wermine, Hugo H., Villa Park, Ill., assignor to Belden Manufacturing Company, Chicago, Ill. Magnetic bobbin. 1,742,018; Dec. 31.
- Werner, Christian. (See Rose, F. W. P., and Werner.)
- Werner & Co. (See Rose, F. W. P., and Werner, assignors.)
- Werner, Frank, and J. Hink, Grand Rapids, Mich. Safe. 1,714,679; May 28.
- Werner, Henry S., Memphis, Tenn. Battery-charging device. 1,723,903; Aug. 6.
- Werner, John A., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Total-printing mechanism for cash registers. 1,723,393; Aug. 6.
- Werner, Leo J., Arlington, N. J., assignor to Dubilier Condenser Corporation, New York, N. Y. Inductance control. 1,697,377; Jan. 1.
- Werner, Leo J., Arlington, N. J., assignor to Dubilier Condenser Corporation, New York, N. Y. Condenser. 1,740,131; Dec. 17.
- Werner, Morris M., Roxbury, Mass. Garter. 1,709,103; Apr. 16.
- Werner, Oscar, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Floodlight. 1,706,759; Mar. 26.



- Werner, Oscar, South Bend Ind., assignor to Westinghouse Electric & Manufacturing Company. Lighting unit. 1,735,149; Nov. 12.
- Werner, Paul, St. Louis, Mo. Dispensing device. 1,771,981; July 23.
- Werner, Walter, assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Paper-pulping engine. 1,712,598; May 14.
- Werner, Walter, assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Beating engine. 1,712,599; May 14.
- Werner, Walter, assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Beating engine. 1,726,873; Sept. 3.
- Werner, Walter, assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Extractor for pulping devices. 1,726,874; Sept. 3.
- Werner, Walter W., Detroit, Mich. Collapsible coil-forming device. 1,726,279; Aug. 27.
- Werner, Wilbur S., Covington, Ky. Diathermy apparatus. 1,733,763; Oct. 29.
- Werner, William, Mexia, Tex. Magnetic lift. 1,699,866; Jan. 22.
- Werner, William, Mexia, Tex. Magnetic reciprocating device. 1,715,484; June 4.
- Werner, William, Mexia, Tex. Post-anchoring device. 1,705,742; Mar. 19.
- Werner, Willy W., Detroit, Mich. Padlock. 1,719,637; July 2.
- Wernicke, Louis, West Bend, Wis. Air motor. 1,735,822; Nov. 12.
- Wernig, John S., Brooklyn, N. Y. Automobile bumper. 1,705,040; Mar. 12.
- Wernle, Karl A., assignor to James B. Clow & Sons, Chicago, Ill. 1,711,295; Apr. 30.
- Wernmark, Carl G., assignor of one-half to W. N. Estes, Walla Walla, Wash. Automatic block-turning machine. 1,727,846; Sept. 10.
- Werotte, Séraphin, Ayvelais, Belgium. Grinding, smoothing, and polishing apparatus. 1,734,065; Nov. 5.
- Werra Aluminum Foundry Company. (See Werra, Julius W., assignor.)
- Werra, Julius W., assignor to Werra Aluminum Foundry Company, Waukesha, Wis. Nonmarring hammer. 1,727,579; Sept. 10.
- Werren, Herbert T., Hampstead, England. Balancing telephone cable. 1,720,616; July 9.
- Wersäll, Karl J., Stockholm, Sweden, assignor to American Kambi Company, New York, N. Y. Centrifugal friction coupling or slipping device. 1,715,805; June 4.
- Wersäll, Karl J., Stockholm, Sweden, assignor to American Kambi Company, New York, N. Y. Centrifugal friction clutch. 1,715,806; June 4.
- Wersäll, Karl J., Stockholm, Sweden, assignor to American Kambi Company, New York, N. Y. Centrifugal friction clutch. 1,715,807; June 4.
- Wersen, Oscar, assignor to Morgan & Wright, Detroit, Mich. Sectional repair bag. 1,721,580; July 23.
- Wertheimer, Fred S., New York, N. Y. Telephone busy-signal device. 1,701,288; Feb. 5.
- Wertheimer, Harry J., Chicago, Ill. Power mop. 1,715,632; June 4.
- Werthman, Theodore, Cherokee, Iowa. Loading attachment for tractors. 1,718,444; June 25.
- Wetley, John H., Hamburg, Pa. Snowplow. 1,713,458; May 14.
- Wertman, Oscar L., and P. W. Rateliff, Dietz, Wyo. Railway switch. 1,716,748; June 11.
- Wertz, Austin L., Philadelphia, Pa. Metallic container and manufacturing it. 1,719,153; July 2.
- Wertz, Austin L., Philadelphia, Pa., assignor of one-half to M. C. Rosenfeld, Cleveland, Ohio. Valve. 1,710,635; Apr. 23.
- Wertz Company, The. (See Wertz, Louis S., assignor.)
- Wertz, Enos, Salem, Va. Fountain mop. 1,736,236; Nov. 19.
- Wertz, Louis S., Shaker Heights, assignor to The Wertz Company, Cleveland, Ohio. Treating masonry surfaces. 1,726,600; Sept. 3.
- Wertzberger, Dallas, D., Tulsa, Okla. Top construction for well derricks. 1,705,598; Mar. 19.
- Werv, Jules, Deerfield, Ill. Can-seaming machine. 1,711,336; Apr. 30.
- Wertz, Jacob, assignor to Societe Anonyme des Ateliers de Secheron, Secheron, Switzerland. Electric vehicle drive through double gearing. 1,730,989; Oct. 8.
- Wesbecher, Frank, assignor to himself and C. F. Hoefel, Akron, Ohio. Sink strainer. 1,709,383; Apr. 16.
- Wesche, Hans. (See Onnertz, P., Wesche, and Brodersen.)
- Wescott, Charles O., Portland, Ore. Bun and finger-roll molding machine. 1,726,969; Sept. 3.
- Wescott, Ernest W., Niagara Falls, N. Y., assignor to Comstock & Wescott, Incorporated, Boston, Mass. Copper-oxide electrode and making the same. 1,711,462; Apr. 30.
- Wescott, Walter W., (See Schiller, J. F., and Wescott.)
- Wescott, Walter W., et al. (See Schiller, J. F., and Wescott, assignors.)
- Wescott, William B., assignor to Rubber Latex Research Corporation, Boston, Mass. Making rubber articles. 1,702,225; Feb. 12.
- Wescott, William B., assignor to Rubber Latex Research Corporation, Boston, Mass. Brake liner and making same. 1,720,407; July 9.
- Wescott, William B., assignor to Rubber Latex Research Corporation, Boston, Mass. Rubber-fiber article and making the same. 1,737,133; Nov. 26.
- Wescott, William B., Dover, assignor to Rubber Latex Research Corporation, Boston, Mass. Tread stock. 1,714,995; May 28.
- Wescott, William B., Dover, assignor to Rubber Latex Research Corporation, Boston, Mass. Rubber heel and making the same. 1,740,633; Dec. 24.
- Wescott, William B., Wellesley, assignor to American Protein Corporation, Boston, Mass. Centrifuge. 1,737,287; Nov. 26.
- Wesir National Company. (See Hicks, William W., assignor.)
- Wesley, John W., Chicago, Ill. Automatic weighing scale. 1,723,829; Aug. 6.
- Wesley, Joseph B. (See Knight, O. W., and Wesley.)
- Wesolowski, Theodore. (See Kuehn, W. O., and Wesolowski.)
- Wesp, Edward J., assignor to The Canton Foundry & Machine Company, Canton, Ohio. Adjustable bearing. 1,721,363; July 16.
- Wessblad, Karl A., Stockholm, Sweden, assignor to Electrolux Serval Corporation, New York, N. Y. Refrigeration. 1,702,754; Feb. 19.
- Wessel, Isaac L., deceased, Muskegon, Mich.; W. A. Wessel, administrator. Grapple for handling hot castings. 1,740,383; Dec. 17.
- Wessel, Karl, San Diego, Calif. Hemp machine. 1,712,910; May 14.
- Wessel, Ludwig H., assignor to The Hermann Manufacturing Company, Lancaster, Ohio. Machine for refining paper and pulp. 1,706,944; Mar. 26.
- Wessel, William A., administrator. (See Wessel, Isaac L.)
- Wesseler, William J., East Cleveland, Ohio. Knitted fabric and making the same. 1,738,486; Dec. 3.
- Wesseler, William J., East Cleveland, Ohio, assignor to Kex Company, Incorporated, St. Louis, Mo. Apparatus for leak stoppers and the like. 1,702,031; Feb. 12.
- Wesseler, William J., assignor of one-half to A. H. Fisher, East Cleveland, and one-half to D. M. Stafford, Cleveland, Ohio. Window construction. 1,727,188; Sept. 3.
- Wessman, Arnt W., Chicago, Ill., assignor to International Harvester Company, Grain weigher. 1,734,412; Nov. 5.
- Wessman, August M., Hercules, Calif. Camera case. 1,707,832; Apr. 2.
- Wesson, Eugene G., Lincoln, Nebr., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-switch-actuating mechanism. 1,724,442; Aug. 13.
- West, Arthur J., Bethlehem, Pa., assignor to Bethlehem Steel Company. Internal-combustion engine. 1,701,990; Feb. 12.
- West, Arthur J., assignor to Bethlehem Steel Company, Bethlehem, Pa. Engine-cylinder construction. 1,704,271; Mar. 5.
- West, Arthur J., Bethlehem, Pa., assignor to Bethlehem Steel Company. System for cooling engine cylinders. 1,705,628; Mar. 19.
- West, Arthur J., Bethlehem, Pa., assignor to Bethlehem Steel Company. Lubricating system. 1,736,335; Nov. 19.
- West Bend Aluminum Company. (See Kircher, Ralph N., assignor.)
- West Bend Aluminum Company. (See Kocher, Alfred, assignor.)
- West Bend Aluminum Company. (See Wentorf, Robert H., assignor.)
- West Bend Aluminum Company. (See Wentorf, R. H., and Kircher, assignors.)
- West, Bernice D., New York, N. Y. Ornament for automobiles. Des. 78,175; Apr. 2.
- West, Bernice D., New York, N. Y. Ash tray or similar article. Des. 78,242; Apr. 9.
- West Boylston Manufacturing Company. (See Burns, Alfred, assignor.)
- West, Charles H., Pittsburgh, assignor to Westmoreland Glass Company, Grapeville, Pa. Dish. Des. 78,370; Apr. 23.
- West, Charles P., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Generator-voltage regulator. 1,710,755; Apr. 30.
- West, Charles P., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Metering system. 1,732,823; Oct. 22.
- West, Charles W., San Mateo, Calif. Automobile radiator cap or similar article. Des. 78,910; July 2.
- West Disinfecting Company. (See Koopferstein, Louis, assignor.)
- West, Donald C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-West, Donald H., New London, Conn. Hydraulic transmission. 1,722,832; July 30.
- West End Chemical Company. (See Hellmers, Henry D., assignor.)
- West, Horatio G., East Brookfield, assignor to D. Pilsworth, Worcester, Mass. Loom picker. 1,741,353; Dec. 31.
- West, James F. (See West, William L. and J. F.)
- West, John, Chicago, Ill. Circus toy. Des. 78,495; May 7.
- West, John D., Modale, Iowa. Extricating device for motor vehicles. 1,718,509; June 25.
- West, Kenneth M., Preston, Cuba. Smoking pipe. 1,711,435; Apr. 30.
- West, Loren B., Long Beach, Calif. Differential lock. 1,719,095; July 2.



- West, O. L., et al., executors. (See Zimmerman, William G.)
- West, Orle L., and C. W. Boland, Earlsboro, Okla. Clamp for holding wire-line cables. 1,711,005; Apr. 30.
- West, Oscar J., assignor to Western Foundation Company, Chicago, Ill. Composite pile. 1,715,808; June 4.
- West, Perry, Newark, N. J., assignor, by mesne assignments, to Elliott Company, Pittsburgh, Pa. Deactivator. 1,723,105; Aug. 6.
- West, Robert, New York, N. Y., assignor of one-half to H. W. Marshall, Bellville, N. J. Clothes hanger. 1,714,201; May 21.
- West, Ross R., San Francisco, Calif. Record tray. 1,721,240; July 16.
- West, Stephen L., and C. F. Sawyer, Palouse, Wash. Cow-tail holder. 1,739,565; Dec. 17.
- West, William L. and J. F., Belmont, N. C. Toy aeroplane. 1,719,252; July 2.
- Westaway, W. J., Company Limited. (See Marsh, H. M., and Stirling, assignors.)
- Westberg, Harry. (See Wilson, W. H., and Westberg.)
- Westberg, Sigurd, Pittsburgh, Pa. Reducing oxides or oxide ores. 1,715,155; May 28.
- Westbrook, Fred E., and M. P. Bettencourt, Modesto, Calif.; said Bettencourt assignor to said Westbrook. Sanitary milking rest. 1,709,200; Apr. 16.
- Westbrook, Leon R., Cleveland Heights, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Making crystallized, noncaking trisodium phosphate hydrate. 1,711,707; May 7.
- Westbury, William, and P. W. Collins, Independence, Kans., assignors, by mesne assignments, to Harding Glass Company, Fort Smith, Ark. Pot and kiln construction. 1,736,026; Nov. 19.
- Westbye, Peder P., Peterborough, Ontario, Canada. Pocket-grinder loader. 1,733,038; Oct. 22.
- Westbye, Peder P., Peterborough, Ontario, Canada. Barking drum. 1,739,564; Dec. 17.
- Westcott, Pliny K., assignor to M. A. Kenney, Brooklyn, N. Y. Airplane landing apparatus. 1,705,432; Mar. 12.
- Westcott Rule Company. (See Watson, Charles G., assignor.)
- Wester, Chris, Palatka, assignor to Boone and Wester, Cedar Key, Fla. Stump puller. 1,700,008; Jan. 22.
- Westerbeck, Frederick, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Can. 1,714,996; May 28.
- Westerfield, Granville G., Indianapolis, Ind. Crock-making mold. 1,740,757; Dec. 24.
- Westergaard, James. (See Schmidt, C. A., and Westergaard.)
- Westerlund, Victor, Portland, Oreg. Trap. 1,738,623; Dec. 10.
- Westerman, Charles, Brooklyn, N. Y. Footstool. 1,712,412; May 7.
- Westerman, William H., Marietta, Ohio, assignor to The Colona Manufacturing Company, Monaca, Pa. Making thread protectors. 1,721,364; July 16.
- Westermann, Hans, jr., Hamburg, Germany. Musical-instrument spur. 1,711,708; May 7.
- Western Blind and Screen Company. (See Bissell, Robert W., assignor.)
- Western Blind & Screen Company. (See Daniel, J. E. B., and Louthan, assignors.)
- Western Briar Pipe Company. (See Gevirman, Jerome, assignor.)
- Western Cartridge Company. (See Olin, J. M., and Schuricht, assignors.)
- Western Cartridge Company. (See O'Neil, A. S., and Hindrichs, assignors.)
- Western Boller Compound and Chemical Company. (See Frischer, Moxie L., assignor.)
- Western Cartridge Company. (See Camp, Henry P., assignor.)
- Western Cartridge Company. (See Ernst, H., and Williams, assignors.)
- Western Cartridge Company. (See Holmdahl, Arthur C., assignor.)
- Western Cartridge Company. (See Olin, J. M., and Smith, assignors.)
- Western Cartridge Company. (See O'Neil, Arthur S., assignor.)
- Western Cartridge Company. (See Rousseau, Stanislas, assignor.)
- Western Cartridge Company. (See Schuricht, A. G., and McNutt, assignors.)
- Western Clock Company. (See Neureuther, Andrew H., assignor.)
- Western Coil & Electrical Co. (See Lee, G. P., and Lewis, assignors.)
- Western Concrete Pipe Company. (See Carr, John A., assignor.)
- Western Electric Company. (See Adams, A. H., and Franks, assignors.)
- Western Electric Company. (See Adams, John H., assignor.)
- Western Electric Company. (See Anderson, David G., assignor.)
- Western Electric Company. (See Anderson, Sidney E., assignor.)
- Western Electric Company. (See Andrews, John W., assignor.)
- Western Electric Company. (See Arkema, H. P., and Thronsen, assignors.)
- Western Electric Company. (See Babbitt, Bethel J., assignor.)
- Western Electric Company. (See Beach, William C., assignor.)
- Western Electric Company. (See Bellamy, H. T., and Groves, assignors.)
- Western Electric Company. (See Bennett, Arthur F., assignor.)
- Western Electric Company. (See Bennett, A. F., and Moore, assignors.)
- Western Electric Company. (See Bidwell, Edgar M., assignor.)
- Western Electric Company. (See Biggar, John H., assignor.)
- Western Electric Company. (See Blood Harold L., assignor.)
- Western Electric Company. (See Blount, Harry, assignor.)
- Western Electric Company. (See Boedeker, Walter U., assignor.)
- Western Electric Company. (See Bollinger, Charles, assignor.)
- Western Electric Company. (See Borland, C. A., and Melching, assignors.)
- Western Electric Company. (See Bouvier, George A., assignor.)
- Western Electric Company. (See Bouvier, G. A., and Richter, assignors.)
- Western Electric Company. (See Bowne, Langford J., assignor.)
- Western Electric Company. (See Boynton, John E., assignor.)
- Western Electric Company. (See Bruce, Edmond, assignor.)
- Western Electric Company. (See Bureau, Arthur A., assignor.)
- Western Electric Company. (See Buttles, William S., assignor.)
- Western Electric Company. (See Byl, George N., assignor.)
- Western Electric Company. (See Carpenter, Warren W., assignor.)
- Western Electric Company. (See Casper, William L., assignor.)
- Western Electric Company. (See Chanter, Arthur J., assignor.)
- Western Electric Company. (See Clarke, Carole A., assignor.)
- Western Electric Company. (See Clausen, Henry P., assignor.)
- Western Electric Company. (See Clement, Lewis M., assignor.)
- Western Electric Company. (See Clokey, Allison A., assignor.)
- Western Electric Company. (See Conway, Roy D., assignor.)
- Western Electric Company. (See Coolbroth, Frank H., assignor.)
- Western Electric Company. (See Coon, Leslie E., assignor.)
- Western Electric Company. (See Crandall, I. B., and Estes, assignors.)
- Western Electric Company. (See Curtis, Austen M., assignor.)
- Western Electric Company. (See Daniel, Thomas A., assignor.)
- Western Electric Company. (See Daniels, E. A., and Snell, assignors.)
- Western Electric Company. (See Deakin, Gerald, assignor.)
- Western Electric Company. (See Dean, Reginald S., assignor.)
- Western Electric Company. (See de Coutouly, Gustave C., assignor.)
- Western Electric Company. (See Deering, Lawrence E., assignor.)
- Western Electric Company. (See Dehn, Joseph W., assignor.)
- Western Electric Company. (See Deloraine, Edmond M., assignor.)
- Western Electric Company. (See Draper, John B., assignor.)
- Western Electric Company. (See Eaves, Augustus J., assignor.)
- Western Electric Company. (See Elmen, Gustaf W., assignor.)
- Western Electric Company. (See Evans, Porter H., assignor.)
- Western Electric Company. (See Farrington, John F., assignor.)
- Western Electric Company. (See Farrington, J. F., and Smythe, assignors.)
- Western Electric Company. (See Fay, Joseph W., assignor.)
- Western Electric Company. (See Fay, O. J., Heimberger, and Pugh, assignors.)
- Western Electric Company. (See Field, Frank E., assignor.)
- Western Electric Company. (See Field, Joseph C., assignor.)
- Western Electric Company. (See Fisher, Harold J., assignor.)
- Western Electric Company. (See Fletcher, Harvey, assignor.)
- Western Electric Company. (See Ford, Ben K., assignor.)



- Western Electric Company. (See Ford, Leroy S., assignor.)
- Western Electric Company. (See Franks, C. H., and Rock, assignors.)
- Western Electric Company. (See Friis, H. T., and Jensen, assignors.)
- Western Electric Company. (See Gabriel, John C., assignor.)
- Western Electric Company. (See Gabriel, J. C., and Thurston, assignors.)
- Western Electric Company. (See Gauthier, Ernest, assignor.)
- Western Electric Company. (See Goodrum, Charles L., assignor.)
- Western Electric Company. (See Grondahl, Hans H. C., assignor.)
- Western Electric Company. (See Gros, Gustave A., assignor.)
- Western Electric Company. (See Haddock, Arthur, assignor.)
- Western Electric Company. (See Hallam, Cecil A., assignor.)
- Western Electric Company. (See Hamer, Thruston M., assignor.)
- Western Electric Company. (See Harrison, Henry C., assignor.)
- Western Electric Company. (See Hartley, Ralph V. L., assignor.)
- Western Electric Company. (See Hartsough, Ralph C., assignor.)
- Western Electric Company. (See Heising, Raymond A., assignor.)
- Western Electric Company. (See Heising, R. A., and de Coutouly, assignors.)
- Western Electric Company. (See Hoffman, Henry L., assignor.)
- Western Electric Company. (See Holland, Newman H., assignor.)
- Western Electric Company. (See Horton, Joseph W., assignor.)
- Western Electric Company. (See Hosford, William F., assignor.)
- Western Electric Company. (See Hosford, W. F., and Levinger, assignors.)
- Western Electric Company. (See Houskeeper, William G., assignor.)
- Western Electric Company. (See Houts, Guy J., assignor.)
- Western Electric Company. (See Hull, Sidney M., assignor.)
- Western Electric Company. (See Jammer, Jacob S., assignor.)
- Western Electric Company. (See Jensen, Axel C., assignor.)
- Western Electric Company. (See Jespersen, Helgo W., assignor.)
- Western Electric Company. (See Jessup, Richard D., assignor.)
- Western Electric Company. (See Johnson, Earl V., assignor.)
- Western Electric Company. (See Johnson, John B., assignor.)
- Western Electric Company. (See Johnson, Lewis H., assignor.)
- Western Electric Company. (See Jongedyk, Ralph, assignor.)
- Western Electric Company. (See Kay, Charles J., assignor.)
- Western Electric Company. (See Kemp, Archie R., assignor.)
- Western Electric Company. (See Kendall, Burton W., assignor.)
- Western Electric Company. (See Kivley, Ray C., assignor.)
- Western Electric Company. (See Knoop, William A., assignor.)
- Western Electric Company. (See Knuuti, C. O., and Nelson, assignor.)
- Western Electric Company. (See Kochendorfer, Frederic S., assignor.)
- Western Electric Company. (See Kochendorfer, F. S., and Thode, assignors.)
- Western Electric Company. (See Kranz, Hermann E., assignor.)
- Western Electric Company. (See Kuhn, John J., assignor.)
- Western Electric Company. (See Lambert, Harry E., assignor.)
- Western Electric Company. (See Landeen, Arvid G., assignor.)
- Western Electric Company. (See Le Boutillier, Austin, assignor.)
- Western Electric Company. (See Locke, George A., assignor.)
- Western Electric Company. (See Long, Maurice B., assignor.)
- Western Electric Company. (See Lorange, George T., assignor.)
- Western Electric Company. (See Lowry, Homer H., assignor.)
- Western Electric Company. (See Lum, George R., assignor.)
- Western Electric Company. (See MacDougall, Harry W., assignor.)
- Western Electric Company. (See Marchev, Alfred, assignor.)
- Western Electric Company. (See Martell, Charles, assignor.)
- Western Electric Company. (See Martell, C., and Hagen, assignors.)
- Western Electric Company. (See Martindell, Frank, assignor.)
- Western Electric Company. (See Matthies, William H., assignor.)
- Western Electric Company. (See Maxfield, Joseph P., assignor.)
- Western Electric Company. (See McCormack, Alexander A., assignor.)
- Western Electric Company. (See McGall, Philip K., assignor.)
- Western Electric Company. (See McMullan, Samuel, assignor.)
- Western Electric Company. (See Melching, August F., assignor.)
- Western Electric Company. (See Mohr, Franklin, assignor.)
- Western Electric Company. (See Mougey, Wilbur E., assignor.)
- Western Electric Company. (See Nash, G. H., and Grace, assignors.)
- Western Electric Company. (See Nelson, E. L., and Oswald, assignors.)
- Western Electric Company. (See Nichols, Harold W., assignor.)
- Western Electric Company. (See Norton, Edward L., assignor.)
- Western Electric Company. (See Olson, Herbert O., assignor.)
- Western Electric Company. (See Oswald, A. A., and Nelson, assignors.)
- Western Electric Company. (See Peterson, Eugene, assignor.)
- Western Electric Company. (See Pfannenstiehl, Harry, assignor.)
- Western Electric Company. (See Potts, Louis M., assignor.)
- Western Electric Company. (See Powell, Raymond E., assignor.)
- Western Electric Company. (See Proffitt, Arba A., assignor.)
- Western Electric Company. (See Pugh, Emerson, assignor.)
- Western Electric Company. (See Quarles, Donald A., assignor.)
- Western Electric Company. (See Quass, Ralph L., assignor.)
- Western Electric Company. (See Ray, William H., assignor.)
- Western Electric Company. (See Reeve, Howard T., assignor.)
- Western Electric Company. (See Rettenmeyer, Francis X., assignor.)
- Western Electric Company. (See Roman, Frank L., assignor.)
- Western Electric Company. (See Ronci, Victor L., assignor.)
- Western Electric Company. (See Schelleng, John C., assignor.)
- Western Electric Company. (See Schnable, George L., assignor.)
- Western Electric Company. (See Schwerin, Paul, assignor.)
- Western Electric Company. (See Schulz, Arthur E., assignor.)
- Western Electric Company. (See Schumacher, Earle E., assignor.)
- Western Electric Company. (See Scruby, Sydney V. C., assignor.)
- Western Electric Company. (See Seeley, George A., assignor.)
- Western Electric Company. (See Seljesaeter, Kaare S., assignor.)
- Western Electric Company. (See Selvig, John N., assignor.)
- Western Electric Company. (See Shann, Oscar A., assignor.)
- Western Electric Company. (See Siebs, Claude T., assignor.)
- Western Electric Company. (See Siegmund, Humphreys O., assignor.)
- Western Electric Company. (See Skriba, Rudolph A., assignor.)
- Western Electric Company. (See Slaughter, Nugent H., assignor.)
- Western Electric Company. (See Smythe, Edwin H., assignor.)
- Western Electric Company. (See Sprague, Clarence A., assignor.)
- Western Electric Company. (See Stastney, Ladislav, assignor.)
- Western Electric Company. (See Stearn, Franklin A., assignor.)
- Western Electric Company. (See Stearns, Harry C., assignor.)
- Western Electric Company. (See Sterba, Ernest J., assignor.)
- Western Electric Company. (See Stevenson, George H., assignor.)
- Western Electric Company. (See Stokely, Ray L., assignor.)
- Western Electric Company. (See Stull, John S., assignor.)



- Western Electric Company. (See Thode, William N., assignor.)
- Western Electric Company. (See Thompson, George, assignor.)
- Western Electric Company. (See Thompson, Walter V., assignor.)
- Western Electric Company. (See Timm, William A., assignor.)
- Western Electric Company. (See Tournier, E. P., and Wulff, assignors.)
- Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
- Western Electric Company. (See Vroom, E., and Kreck, assignors.)
- Western Electric Company. (See Walker, Howard G., assignor.)
- Western Electric Company. (See Walter, Ralph C., assignor.)
- Western Electric Company. (See Wegel, Raymond L., assignor.)
- Western Electric Company. (See White, John H., assignor.)
- Western Electric Company. (See Whiting, Donald F., assignor.)
- Western Electric Company. (See Whittle, H., and Christopher, assignors.)
- Western Electric Company. (See Williams, Robert R., assignor.)
- Western Electric Company. (See Wilson, Ira G., assignor.)
- Western Electric Company. (See Wilson, James R., assignor.)
- Western Electric Company. (See Wiley, Schuyler C., assignor.)
- Western Electric Company. (See Yancey, Thornton M., assignor.)
- Western Electric & Manufacturing Company. (See Legg, Joseph W., assignor.)
- Western Electrical Company. (See Nichols, Harold W., assignor.)
- Western Foundation Company. (See Sherwood, Glenn L., assignor.)
- Western Foundation Company. (See West, Oscar J., assignor.)
- Western Gas Construction Company, The, et al. (See Andrews, C. W., and Chapman, assignors.)
- Western Gas Construction Company, The. (See Barr, Walter, assignor.)
- Western Gas Construction Company, The. (See Bulmahn, Henry E., assignor.)
- Western Gold & Platinum Works, The. (See Overmire, Charles A., assignor.)
- Western Harvester Co. (See Thoen, Lowell H., assignor.)
- Western Ignition Co. (See Reis, Curt F., assignor.)
- Western Newell Manufacturing Company. (See Maves, Stanley E., assignor.)
- Western Pipe and Steel Company of California. (See Rupley, William E., assignor.)
- Western Pipe and Steel Company of California. (See Shoenberger, Philip D., assignor.)
- Western Products Company. (See Bicks, Jean W., assignor.)
- Western Railway Equipment Company. (See Campbell, Sterling H., assignor.)
- Western States Envelope Co. (See Vallier, Elijah G., assignor.)
- Western States Machine Company, The. (See Roberts, Eugene, assignor.)
- Western Sulphur Company. (See Wright, Jacob H., assignor.)
- Western Supplies Company. (See Woodworth, Roy V., assignor.)
- Western Supply Company. (See Crotto, Frank E., assignor.)
- Western Union Telegraph Company, The. (See Curtin, Leo P., assignor.)
- Western Union Telegraph Company, The. (See Dudley, William A., assignor.)
- Western Union Telegraph Company, The. (See Griffith, F., Birkmeyer, and Life, assignors.)
- Western Union Telegraph Company, The. (See Haglund, Hakon H., assignor.)
- Western Union Telegraph Company, The. (See Janson, George W., assignor.)
- Western Union Telegraph Company, The. (See Mason, H., and Birkmeyer, assignors.)
- Western Union Telegraph Company, The. (See McGuinness, W. V., and Chulstrom, assignors.)
- Western Union Telegraph Company, The. (See Milnor, Joseph W., assignor.)
- Western Union Telegraph Company, The. (See Nelson, Crescent F., assignor.)
- Western Union Telegraph Company, The. (See Peterman, William C., assignor.)
- Western Union Telegraph Company, The. (See Rovere, L. H., Mott, and Ayers, assignors.)
- Western Union Telegraph Company, The. (See Stearns, Charles F., assignor.)
- Western Union Telegraph Company, The. (See Wheeler, E. R., and Dirkes, assignors.)
- Western Union Telegraph Company, The. (See Woodward, Marion H., assignor.)
- Western Waxed Paper Company. (See McDonald, Richard A., assignor.)
- Western Wheeled Scraper Company. (See Benbow, J. D., and Green, assignors.)
- Western Wheeled Scraper Company. (See Bressler, R. E., and Hirschel, assignors.)
- Western Wheeled Scraper Company. (See Hamper, Henry D., assignor.)
- Western Wheeled Scraper Company. (See Henry, E. P., and Morton, assignors.)
- Westervelt, William I., U. S. Army, San Antonio, Tex., and 1,709,162; Apr. 16.
- Westfall, Martin C., C. W. Klauberg, and R. B. Foster, Columbus, Ohio; said Foster and said Klauberg assignors to said Martin C. Westfall, Direction-indicator switch for motor vehicles. 1,727,422; Sept. 10.
- Westfield Nut Company. (See Worrell, Guy C., assignor.)
- Westgaard, Juul M., assignor to C. Setterberg and G. A. Ericsson, Stockholm, Sweden. Potato-peeling machine. 1,728,846; Sept. 17.
- Westgaard, Levi. (See Westgaard, Olaf and L.)
- Westgaard, Olaf and L., Seattle, Wash. Eyeshade for auto drivers. 1,712,285; May 7.
- Westgard, Thomas, Great Falls, Mont. Multistage air compressor or water pump. 1,698,287; Jan. 8.
- Westhaver, John L., San Diego, Calif. Carbon holder. 1,711,709; May 7.
- Westinghouse Air Brake Company, The. (See Bartholomew, John R., assignor.)
- Westinghouse Air Brake Company, The. (See Bush, Rankin J., assignor.)
- Westinghouse Air Brake Co., The. (See Chapin, Albert J., assignor.)
- Westinghouse Air Brake Company. (See Cook, Earle S., assignor.)
- Westinghouse Air Brake Company, The. (See Dapron, Joseph M., assignor.)
- Westinghouse Air Brake Company, The. (See Dapron, J. M., and Fitch, assignors.)
- Westinghouse Air Brake Company. (See Dean, William E., assignor.)
- Westinghouse Air Brake Company, The. (See Dean, W. E., and Cook, assignors.)
- Westinghouse Air Brake Company, The. (See Dormoy, Jules M. J., assignor.)
- Westinghouse Air Brake Company, The. (See Down, Sidney G., assignor.)
- Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
- Westinghouse Air Brake Company, The. (See Farmer, C. C., and McCune, assignors.)
- Westinghouse Air Brake Company, The. (See Farmer, C. C., and Thomas, assignors.)
- Westinghouse Air Brake Company. (See Fitch, Ellery R., assignor.)
- Westinghouse Air Brake Company, The. (See Guillemin-Tarayre, Jean, assignor.)
- Westinghouse Air Brake Company, The. (See Hewitt, Ellis E., assignor.)
- Westinghouse Air Brake Company, The. (See Livingston, Fremont P., assignor.)
- Westinghouse Air Brake Company, The. (See Loudenbeck, Harry C., assignor.)
- Westinghouse Air Brake Company, The. (See Maliphant, Charles W., assignor.)
- Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
- Westinghouse Air Brake Company, The. (See Nelson, Claude A., assignor.)
- Westinghouse Air Brake Company, The. (See Nettleton, Lewis L., assignor.)
- Westinghouse Air Brake Company. (See Parke, Frederic H., assignor.)
- Westinghouse Air Brake Company, The. (See Rush, John W., assignor.)
- Westinghouse Air Brake Company, The. (See Stevens, Roy R., assignor.)
- Westinghouse Air Brake Company, The. (See Stewart, Carlton D., assignor.)
- Westinghouse Air Brake Company, The. (See Thomas, Frank B., assignor.)
- Westinghouse Air Brake Company. (See Thomas, Thomas H., assignor.)
- Westinghouse Air Brake Company, The. (See Thomas, T. H., and Good, assignors.)
- Westinghouse Air Brake Company, The. (See Thomas, T. H., and Nelson, assignors.)
- Westinghouse Air Brake Company. (See Wagner, Ernest F., assignor.)
- Westinghouse Air Brake Company. (See Winter, Harry J., assignor.)
- Westinghouse Air Brake Company, The. (See Woods, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Aiken, Joseph E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Alben, Frank L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Allcutt, Chester T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Andersen, Niels K., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Aram, Otto, assignor.)



- Westinghouse Electric & Manufacturing Company. (See Aspinwall, Louis M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Atherton, Alfred L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Walter M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Back, Goldie, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Baker, John F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Banister, Frederick J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bastian, Arthur J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Batsel, Max C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bates, Harry H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bauch, Richard, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Bauch, R., Koch, and Völzing, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Baum, Frank G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Baumann, Karl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Baxter, Harold G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Baxter, H. G., and Krantz, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Baxter, H. G., and von Hoorn, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Beers, George L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Beetz, Wilhelm, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bell, Victor L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bethel, Claude, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Binney, Eric A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Boddie, Clarence A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Bouton, Edgar M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Bouton, E. M., and Walker, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Bradshaw, William M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Bradshaw, W. M., and Oman, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Breisch, Edgar W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Breisky, John V., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brinton, Charles C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brown, John L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brown, W. J., Hubbard, Robinson, and Burch, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Bryant, Ozro N., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Burnham, L. F., and Jones, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Burnham, L. F., Slocum, and Weber, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Burwell, Loring D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Butcher, Charles A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Callen, Albert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Cares, Harry F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Carpenter, C. H., and Keene, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Causan, Laurent N., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Christianson, Theodore C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Clark, Earl K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Clark, George D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Clayton, Edward M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Claytor, E. M., and Cobb, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Claytor, E. M., and Hodgkins, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Cochran, Paul B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Conant, David J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Crabbs, Herbert J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Crawshaw, Stephen L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Crichton, Leslie N., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Crichton, L. N., and Goldsborough, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Dann, Walter M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Dann, W. M., Knotts, Thompson, and Hill, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Davies, David R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Davis, David C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Davis, Robert L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Diederichs, William J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Dunlop, James, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eames, William F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eberhardt, Henry J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Edson, William W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, Ralph, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ellis, Walter R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Elsässer, Robert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Erskine, Ralph W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Estorff, Walther, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Evans, Earl R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Falknor, Frank B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Farley, William R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fatkin, Edward S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ferris, Ralph E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ficken, Gerd, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Flanders, Warren B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fletcher, George H., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Fletcher, G. H., and Rusby, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Fletcher, G. H., and Tustin, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Fletcher, Paul E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Forshee, Frank F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Forshee, F. F., and Thornton, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Forshee, Frank P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles Le G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Frank, Leo C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Frietchen, Harry A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fuchs, August, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Fuller, George B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Gano, Harlan S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Gardner, John E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Geiger, H., and Baust, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Gibbs, Jesse B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Goldsborough, Thaddeus R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Golladay, Lawrence R., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Golladay, L. R., and Smith, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Grant, Albert E., assignor.)



- Westinghouse Electric & Manufacturing Company. (See Gray, William T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Graybill, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Grobach, Emil H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Grissinger, George G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Haas, Carl F., assignor.) Design.
- Westinghouse Electric & Manufacturing Company. (See Haas, Carl F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hague, Floyd T., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Hall, C. J., and Kent, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hanna, David B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hanzlik, Henry J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hardy, Franklin E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Harvey, Albert L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Harz, Hermann, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Haverstick, Earl J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hawkinson, Emil E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Healey, William J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hebrew, Joseph S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Herr, Herbert T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Herr, H. T., and Kasley, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Hershberger, David C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Higbee, Ray P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See High, Jurjen S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hill, Edward P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hill, Leland H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hill, L. H., and Dann, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Himes, Walter H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hodgkins, C. H., and Moss, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hodgkinson, F., and Allen, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Horn, Charles W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Horn, William G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Hornbostel, Lloyd, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jackson, Ray P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jahnis, Charles F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See James, H. D., and Hodgkins, assignors.)
- Westinghouse Electric & Manufacturing Company. (See James, H. D., and Nagel, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Jannenga, R. L., and Lemmerbart, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Jenks, Harold C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jensch, Clarence F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Johnson, Josiah F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Johnston, Howard L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Jones, Gordon F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Kasley, Alexander T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Keene, Alvin D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Keir, William H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kelly, Fred G., Jr., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See King, William R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kintner, Samuel M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kintzing, Rose T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kirwer, Christ, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Knappe, Charles N. F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Knight, Montgomery, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Koch, Gustav H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Koch, Walther, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kozisek, Jaroslav, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Krane, Hobart M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Krantz, Hubert K., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Krantz, H. K., and Baxter, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Kucher, Andrew A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kuhl, Leo, assignor.)
- Westinghouse Electric & Manufacturing Company. (See La Bar, Bert G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ladley, Samuel, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lamb, Carl J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lamme, B. G., and Hibbard, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Landon, Vernon D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Legg, Joseph W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lenehan, Bernard E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Levy, Cyril C., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Levy, C. C., and Kragh, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Lewis, Frank E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lincoln, Rollo B., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Little, Donald G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Little, D. G., and Debaugh, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Loewer, Alvin C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Lux, Gottlob, assignor.)
- Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)
- Westinghouse Electric & Manufacturing Company. (See MacGahan, P., and Stalder, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Mains, Gerald H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mallory, Edward B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mardis, Paul L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Marsland, Roland, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Marsteller, Lester O., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Masek, James C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mateer, Jesse E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Matthews, Howard D., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Maxwell, J. P., Bergvall, and Ashbaugh, assignors.)
- Westinghouse Electric & Manufacturing Company. (See McCarty, Roy A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCoy, James L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See McCulloch, Leon, assignor.)
- Westinghouse Electric & Manufacturing Company. (See McShane, Phelan, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Menzies, William E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Merten, William J., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Merten, W. J., and Gayley, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Miller, Charles F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Miller, Ernest F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Morgan, David W. R., assignor.)



- Westinghouse Electric and Manufacturing Company. (See Morton, Alex A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mosch, F. J., and Höfler, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Moss, Charles M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Moss, C. M. L., Farley, and Peterson, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Mottlau, August J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mourontseff, Ilya E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Müller, Albert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Mylius, Walter G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Natalis, Friedrich, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nauwerk, W., and Walter, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Naylor, William K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Neal, Haldimand W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Neely, William L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nehls, Walter, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Newill, Edward B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See North, Norman E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nottage, Stanley G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nuttall, Kenneth, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Nyman, Alexander, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Oman, Carl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Oplinger, K. A., and Hill, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Oppenheimer, Josef, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Osborne, Heinrich, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Paech, Paul, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Palmer, Delos M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Panzerbieter, T., and Nagel, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Parsons, John S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Paszkowski, Paul, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Perry, Sydney V., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Peters, John F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Peterson, Alfred J. A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Philippi, Arthur K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pofeldt, Hermann, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Pukerud, Thomas S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Putman, Henry V., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Randall, Karl C., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Randall, K. C., and Ansingh, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Rashevsky, Nicolas P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rathbone, Thomas C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rathbun, John P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ratz, Elmer G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rawling, Arthur, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ray, James L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Read, Ernest K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Reagan, Maurice E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Reavis, Andrew B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Reime, Georg, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Richards, Howard N., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rodman, Clarence J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rodman, C. J., and Maude, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Rodman, C. J., and Styer, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Rose, Edward E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rosenbaum, Bruno, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Roth, Albert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rottgardt, Karl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rudenberg, Reinhold, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rusby, Hermann, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rutter, Argyle R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rutter, A. R., and Mylius, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Ryder, Harry M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sandin, Jerome, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sandin, J., and Crabbs, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schaafe, William, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schachtmeyer, N., and de Vries, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Scharowsky, Günther, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schenck, Samuel B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schneider, Stephan, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schnepf, Johann, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schramm, Walter H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schwendner, Anthony F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Selah, Howard A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sessinghaus, Johannes, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sband, Errol B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Silberstein, James, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Simpson, Frank R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sindeband, M. L., and Sporn, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Sleeper, Harvey P., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Sleeper, H. P., and Fortescue, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Slocum, Burton H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smeby, Justin G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smede, Lloyd, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, B. H., and Anderson, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Gerald F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Harold B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Soderberg, Carl R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Spooner, Thomas, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Staeger, Stephen A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Steed, Paul B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Stephenson, Leigh J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Stickney, Fernald S., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Storer, N. W., Candee, and Aspinwall, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Stotlemeyer, John H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Stubbs, Albert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Sutherland, L., and Freeman, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Swars, Paul G., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Symes, W., and Gayter, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Taddiken, Ulrich A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Taylor, George C., assignor.)



- Westinghouse Electric and Manufacturing Company. (See Terry, Matson C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thomas, Irvin G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thompson, Arthur W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thompson, Henry H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Todd, Victor H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Townsend, John R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Travers, Henry A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Trotter, Henry R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Trumpler, William E., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Trumpler, W. E., and Soderberg, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Tubbs, Lester G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Tupper, Frank H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Ulrey, D., and Crichton, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Ulrey, D., and Kirwer, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Vaughan, Victor G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Vaupel, Albert, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Vogel, Carl, assignor.)
- Westinghouse Electric & Manufacturing Company. (See von Kandó, Kalman, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Von Kleist, Felix B., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Wagner, C. F., Evans, and Griscom, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Waite, Griffin G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wall, George, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weaver, James R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weber, Henry C. P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wensley, R. J., and White, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Wensley, R. J., White, and Gardner, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Wensley, R. J., and Wohlgemuth, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Werner, Oscar, assignor.)
- Westinghouse Electric & Manufacturing Company. (See West, Charles P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See West, Donald C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weyl, Bruno, assignor.)
- Westinghouse Electric & Manufacturing Company. (See White, Harold B., assignor.)
- Westinghouse Electric & Manufacturing Company. (See White, Thomas U., assignor.)
- Westinghouse Electric & Manufacturing Company. (See White, T. U., and Gardner, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wohlgenuth, M. J., and Hall, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Wolfert, Edward R., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Young, John W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Zworykin, V. K., and Shand, assignors.)
- Westinghouse Lamp Company. (See Du Mont, Allen B., assignor.)
- Westinghouse Lamp Company. (See Ekstedt, John W., assignor.)
- Westinghouse Lamp Company. (See Gero, William B., assignor.)
- Westinghouse Lamp Company. (See Grogan, Jacob C., assignor.)
- Westinghouse Lamp Company. (See Gustin, Daniel S., assignor.)
- Westinghouse Lamp Company. (See Higgins, John J., assignor.)
- Westinghouse Lamp Company. (See Iredall, Charles V., assignor.)
- Westinghouse Lamp Company. (See Lederer, Ernest A., assignor.)
- Westinghouse Lamp Company. (See Lorenz, Charles F., assignor.)
- Westinghouse Lamp Company. (See MacRae, Duncan, assignor.)
- Westinghouse Lamp Company. (See Madden, Harry D., assignor.)
- Westinghouse Lamp Company. (See Madden, H. D., and Kirby, assignors.)
- Westinghouse Lamp Company. (See Marden, John W., assignor.)
- Westinghouse Lamp Company. (See Marden, J. W., and Rentschler, assignors.)
- Westinghouse Lamp Company. (See Marden, J. W., Thomas, and Conley, assignors.)
- Westinghouse Lamp Company. (See Marden, J. W., and Rich, assignors.)
- Westinghouse Lamp Company. (See Marden, J. W., Ulrey, and Ehrke, assignors.)
- Westinghouse Lamp Company. (See Myers, Ralph E., assignor.)
- Westinghouse Lamp Company. (See Ramage, John H., assignor.)
- Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)
- Westinghouse Lamp Company. (See Rentschler, H. C., and Marden, assignors.)
- Westinghouse Lamp Company. (See Rich, Malcolm N., assignor.)
- Westinghouse Lamp Company. (See Romanelli, Emilio, assignor.)
- Westinghouse Lamp Company. (See Ryan, Edward W., assignor.)
- Westinghouse Lamp Company. (See Slack, Charles M., assignor.)
- Westinghouse Lamp Company. (See Ulrey, Clayton T., assignor.)
- Westinghouse Lamp Company. (See Ulrey, C. T., and Ehrke, assignors.)
- Westinghouse Lamp Company. (See Ulrey, C. T., and Madden, assignors.)
- Westinghouse Lamp Company. (See Weeks, Paul T., assignor.)
- Westinghouse Lamp Company. (See Widell, Emil G., assignor.)
- Westlin, Carl T., Westfield, N. J., assignor to Otis Elevator Company, New York, N. Y. Elevator-car inclosure. 1,718,014; June 18.
- Westling, Lester L., and M. R. Hickman, Oakland, Calif. Gas and liquid separator. 1,734,507; Nov. 5.
- Westman, Emil F., Tonka Bay, Minn. Electric stove. 1,706,908; Mar. 26.
- Westminster Securities Limited. (See Rakowitzky, Hirsch, assignor.)
- Westmoreland Glass Company. (See West, Charles H., assignor.)
- Weston, Adolf, Los Angeles, Calif. Connector for rails. 1,735,307; Nov. 12.
- Weston, Clarence B., Erie, Pa., assignor, by mesne assignments, to Bucyrus-Erie Company, South Milwaukee, Wis. Fluid-actuated engine. 1,717,591; June 18.
- Weston, Edward, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Telephone plug connector. 1,720,653; July 9.
- Weston, Edward B., assignor to The Weston Paper and Manufacturing Company, Dayton, Ohio. Display stand. 1,724,385; Aug. 13.
- Weston, Edward B., assignor to The Weston Paper and Manufacturing Company, Dayton, Ohio. Display stand. 1,724,386; Aug. 13.
- Weston, Edward B., Dayton, Ohio, and W. G. Clark, assignors to The Terre Haute Paper Company, Terre Haute, Ind. Making waterproof straw pulpboard. 1,697,702; Jan. 1.
- Weston, Edward B., Dayton, Ohio, and W. G. Clark, Terre Haute, Ind., assignors to The Weston Paper and Manufacturing Company, Dayton, Ohio. Making straw paper. 1,740,132; Dec. 17.
- Weston, Edward F., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electrical indicating instrument. 1,714,065; May 21.
- Weston, Edward F., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electrical indicating instrument. 1,714,202; May 21.
- Weston, Edward F., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Testing apparatus. 1,714,651; May 28.
- Weston Electric Company. (See Jammer, Jacob S., assignor.)
- Weston Electrical Instrument Corporation. (See Carpenter, Grant, assignor.)
- Weston Electrical Instrument Corporation. (See Goodwin, William N., Jr., assignor.)
- Weston Electrical Instrument Corporation. (See Goodwin, W. N., Jr., and Bartlett, assignors.)
- Weston Electrical Instrument Corporation. (See Weston, Edward F., assignor.)
- Weston, Frederick H., Schenectady, N. Y., assignor to General Electric Company. Locking lamp receptacle. 1,733,039; Oct. 22.
- Weston, Frederick J., Denver, Colo., assignor of one-half to M. Parker, Edgewater, Colo. Valve lifter. 1,721,723; July 23.
- Weston, George A. (See Bragg, R. F., and Weston.)



- Weston, Harry, Sutton, England. Metal reinforcement for concrete structures. 1,727,147; Sept. 3.
- Weston, Ira, Pueblo, Colo. Pastry board. 1,702,144; Feb. 12.
- Weston Paper and Mfg. Co. (See Brecht, George, assignor.)
- Weston Paper and Manufacturing Company, The. (See Weston, Edward B., assignor.)
- Weston Paper and Manufacturing Company, The. (See Weston, E. B., and Clark, assignors.)
- Weston, William S., Columbia, S. C. Screen. 1,735,067; Nov. 12.
- Westphal, Edward H., Portsmouth, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for tempering shoe parts. 1,712,600; May 14.
- West Virginia Rail Company, The. (See Diehl, Herman H., assignor.)
- Westwood, Aubrey E., and R. G. Plews, Winnipeg, Manitoba, Canada. Liquid pistol. 1,700,782; Feb. 5.
- Wetherbee, Ashur U., Evanston, Ill., assignor to Gilchrist & Company. Process and apparatus for defecating liquid. 1,733,324; Oct. 29.
- Wetherbee, Harry L., assignor to Freyn Engineering Company, Chicago, Ill. Distributor for blast furnaces. 1,704,715; Mar. 12.
- Wetherbee, Herbert E., and R. F. Grant, assignors of one-third to H. M. Hanna, Cleveland, Ohio. Prism for glare shields and using same. 1,719,154; July 2.
- Wetherill, Frederic V., Ardmore, assignor to The Brown Instrument Company, Philadelphia, Pa. Orifice plate. 1,731,404; Oct. 15.
- Wethling, Harry D., Orange, N. J. Electromagnet-controlling means. 1,703,077; Feb. 19.
- Wetmore, Charles P., assignor to Wetmore Reamer Company, Milwaukee, Wis. Reamer. 1,730,399; Oct. 8.
- Wetmore, Earl P., Concord, Mich., assignor to The Anoil-coil Burner Co., Toledo, Ohio. Method and apparatus for burning fuel. 1,715,584; June 4.
- Wetmore, Earl P., Concord, Mich., assignor to The Anoil-coil Burner Co., Toledo, Ohio. Method and apparatus for burning fuel. 1,739,051; Dec. 10.
- Wetmore, Laurence, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bearing. 1,708,644; Apr. 9.
- Wetmore, Laurence, Alameda, Calif., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Safety appliance for bias-cutting machines. 1,724,330; Aug. 13.
- Wetmore, Miner P. (See Payson, A. E., and Wetmore.)
- Wetmore, Miner P., Norwich, Conn. Printing mechanism for toothbrushes and like articles. 1,705,277; Mar. 12.
- Wetmore, Miner P., Norwich, Conn. Refrigerating unit for attachment to ice boxes. 1,740,848; Dec. 24.
- Wetmore, Miner P., assignor to The American Thermos Bottle Company, Norwich, Conn. Machine used in silvering double-walled vacuum bottles. 1,725,035; Aug. 20.
- Wetmore, Miner P., assignor to The American Thermos Bottle Company, Norwich, Conn. Machine for use in the manufacture of double-walled vacuum bottles. 1,732,733; Oct. 22.
- Wetmore, Miner P., assignor to The American Thermos Bottle Company, Norwich, Conn. Apparatus for producing double-walled glass containers. 1,735,027; Nov. 12.
- Wetmore, Miner P., assignor to The American Thermos Bottle Company, Norwich, Conn. Apparatus for use in silvering vacuum bottles. 1,735,343; Nov. 12.
- Wetmore, Miner P., assignor to The American Thermos Bottle Company, Norwich, Conn. Bottle carrier. 1,737,819; Dec. 3.
- Wetmore Reamer Company. (See Wetmore, Charles P., assignor.)
- Wetta, William, sr., Harrison, Ohio. Bacon hanger. 1,732,960; Oct. 22.
- Wettengel, Charles A. (See Williams, R. J., and Wettengel.)
- Wetter Numbering Machine Company. (See Rothoff, Albin C., assignor.)
- Wettlaufer, Jules L., Belmont, Mass. Vehicle indicator switch. 1,740,634; Dec. 24.
- Wettstein, Fritz, Summit, N. J., assignor to Ruths Accumulator Company, Incorporated, New York, N. Y. Steam plant. 1,700,650; Jan. 29.
- Wettstein, Fritz, Summit, N. J., and T. Schullström, assignors to Ruths Accumulator Company, Incorporated, New York, N. Y. Regulation. 1,726,726; Sept. 3.
- Wettstein, Fritz A., New York, N. Y. Fluid-pressure regulator and return motion therefor. 1,718,673; June 25.
- Wettstein, Henry, New York, N. Y. Bottle cap. 1,706,720; Mar. 26.
- Wetzel, Carl, Zurich, Switzerland, assignor to G. & J. Jaeger Aktiengesellschaft, Elberfeld, Germany. Axle bearing. 1,710,559; Apr. 23.
- Wetzel, Charley A., Kinsley, Kans. End gate for wagon and truck bodies. 1,724,384; Aug. 13.
- Wetzel, Edward A., Royal Oak, Mich., assignor to Hale & Kilburn Co., Philadelphia, Pa. Automobile door. 1,736,867; Nov. 26.
- Wetzel, Frank, and G. Langen, assignors to The Cincinnati Planer Company, Cincinnati, Ohio. Therapeutic lamp. Des. 78,072; Mar. 19.
- Wetzel, Gustav, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,699,415; Jan. 15.
- Wetzel, Hugo A., Frankfurt-on-the-Main, Germany. Whipper for converting liquids into foam. 1,722,187; July 23.
- Wetzel, Lewis C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,725,498; Aug. 20.
- Wetzel, Lewis C., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 1,725,499; Aug. 20.
- Wetzel, Lewis C., assignor to Toledo Scale Company, Toledo, Ohio. Indicating device. 1,732,177; Oct. 15.
- Wetzel, Paul R. (See Mayer, L. W., and Wetzel.)
- Wetzel, William H., assignor of two-fifths to D. O. Moody, Aberdeen, Wash. Double-headed three-way signal light. 1,719,918; July 9.
- Wetzell, Clare A., Sterling, Ill. Wheel-bearing figure toy. Des. 78,496; May 7.
- Wetzell, Clare A., Sterling, Ill. Wheel-bearing figure toy. Des. 79,540; Oct. 1.
- Wetzler, Hans, Offenbach-on-the-Main, Germany. Casting machine. 1,734,316; Nov. 5.
- Wewetzer, Albert, assignor to Illinois Watch Case Company, Elgin, Ill. Watch bracelet. Des. 78,958; July 9.
- Wexelberg, Clarence E. (See Roberts, R. S., and Wexelberg.)
- Weyandt, Carl S., assignor to Central Electric Tool Company, Pittsburgh, Pa. Portable tool and conductor. 1,704,849; Mar. 12.
- Weyandt, Carl S., assignor to Central Electric Tool Company, Pittsburgh, Pa. Reciprocating motor. 1,705,079; Mar. 12.
- Weyandt, Carl S., Pittsburgh, Pa., assignor to Central Electric Tool Company, Controlling reciprocating motors. 1,723,830; Aug. 6.
- Weyandt, Carl S., and H. E. Fox, Pittsburgh, Pa., assignors, by mesne assignments, to Central Electric Tool Company. Making magnetic-circuit conductors. 1,706,721; Mar. 26.
- Weydell, Jarl M., Indianapolis, Ind., assignor of one-half to E. E. Stout. Magnetic clutch. 1,702,755; Feb. 19.
- Weyenberg, William, Chippewa Falls, Wis. Shoe-display device. 1,698,899; Jan. 15.
- Weyerhaeuser Forest Products. (See Knowlton, Harry N., assignor.)
- Weyl, Bruno, Berlin, Germany, assignor to Westinghouse Electric & Manufacturing Company. Voltage-control system. 1,709,642; Apr. 16.
- Weyland, Hermann, and S. Deichsel, Elberfeld, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Manufacture of fatty acids. 1,703,129; Feb. 8.
- Weyler, Ferdinand P. A., and H. D. Freed, Philadelphia, Pa., assignors to International Electrical Patents Company. Alarm. 1,722,447; July 30.
- Weymann, Charles T. (See Steinbrugge, Hermann, assignor.)
- Weymann, Charles T., Paris, France. Liquid elevator. 1,703,973; Mar. 5.
- Weymerskirch, Theodor, Differdingen, Luxemburg, and L. Chavanne, Paris, France. Casting cylindrical bodies. 1,707,152; Mar. 26.
- Weymouth, Carl R., Newport, Me. Foldable seat. 1,723,851; Aug. 6.
- Weymouth, Frederick R., Buffalo, N. Y., assignor to Fairchild Airplane Manufacturing Corporation, New York, N. Y. Control-surface-operating mechanism. 1,708,373; Apr. 9.
- Weymouth, Frederick R., Hempstead, assignor to Fairchild Airplane Manufacturing Corporation, New York, N. Y. Folding wing. 1,723,962; Aug. 6.
- Weymouth, Frederick R., Hempstead, assignor to Fairchild Airplane Manufacturing Corporation, New York, N. Y. Airplane shock absorber. 1,723,963; Aug. 6.
- Whalen, Edward J., assignor to Redirected Light Corporation of America, Syracuse, N. Y. Headlight. 1,723,535; Aug. 6.
- Whaley Engine Patents, Inc. (See Tursky, Charles M., assignor.)
- Whaley Engine Patents, Inc. (See Whaley, William B. S., assignor.)
- Whaley, William, assignor to Myers-Whaley Company, Knoxville, Tenn. Railway track. 1,735,944; Nov. 19.
- Whaley, William B. S., New York, N. Y., assignor to Whaley Engine Patents, Inc. Fuel-oil-feeding system. 1,706,011; Mar. 19.
- Whamond, David, Kittanning, Pa. Loading machine. 1,739,624; Dec. 17.
- Whann, Jesse P., Los Angeles, Calif. Life-saving device. 1,707,182; Mar. 26.
- Whann, Jesse P., assignor to Layne & Bowler Corporation, Los Angeles, Calif. Armored well screen and making the same. 1,729,197; Sept. 24.
- Wharam, John J., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Radiator-ornament mounting. 1,698,039; Jan. 8.
- Wharton, Edward R., Medford, Mass. Stocking and shoe protector. 1,730,400; Oct. 8.
- Wharton, Edward R., Medford, assignor of one-half to J. D. Verner, Malden, Mass. Blade de-edging and receiving device. 1,712,182; May 7.
- Whatmough, Wilfred A., New Barnet, and S. M. Findlater, Highgate, England. Internal-combustion engine. 1,722,404; July 30.
- Whatmough, William H., London, England, assignor to Standard Products Corporation, New York, N. Y. Apparatus for the production of dispersions of solids in liquids. 1,698,354; Jan. 8.



- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Baggage carrier. 1,705,599; Mar. 19.
- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Baggage carrier. 1,708,112; Apr. 9.
- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Baggage-carrier trolley construction. 1,717,078; June 11.
- Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Baggage carrier. 1,720,158; July 9.
- Wheary Trunk Company. (See Wheary, George H., assignor.)
- Wheat, George W., Cedar Grove, N. J., assignor to Standard Oil Development Company. Soaking-drum cleaner. 1,722,188; July 23.
- Wheat, Grant, assignor to Koehler Manufacturing Company, Marlboro, Mass. Electric switch. 1,699,214; Jan. 15.
- Wheat, William G., Kansas City Mo. Electrical extension conductor and reel. 1,730,104; Oct. 1.
- Wheatley, Walter H., London, England. Milling cutter for helical or spiral and straight bevel gears. 1,707,105; Mar. 26.
- Wheaton, Carlos F., Minneapolis, Minn. Door-holding device. 1,711,190; Apr. 30.
- Wheaton, Harold J. (See Hilditch, T. P., and Wheaton.)
- Wheawill, Charles H. (See Mott, A. C., jr., and Wheawill.)
- Wheeland, Charles G., San Francisco, Calif. Medicine dropper. 1,713,937; May 21.
- Wheelbarger, Albert S., assignor to Ohmer Fare Register Company, Dayton, Ohio. Cabinet for a register. Des. 77,572; Jan. 22.
- Wheelbarger, Albert S., assignor to Ohmer Fare Register Company, Dayton, Ohio. Cabinet for a register. Des. 77,573; Jan. 22.
- Wheelbarger, Albert S., assignor to Ohmer Fare Register Company, Dayton, Ohio. Cabinet for a register. Des. 77,574; Jan. 22.
- Wheeler, Albert M., San Fernando, Calif. Washing machine. 1,724,240; Aug. 13.
- Wheeler, Alice E., Baltimore, Md. Obstetrical sheet. 1,724,443; Aug. 13.
- Wheeler, Archer E., Scarsdale, N. Y. Purification of leaching solutions and the recovery of acids or dissolving agents. 1,703,435; Feb. 26.
- Wheeler, Beth H. (See Wheeler, Harley T., assignor.)
- Wheeler, Clem E. (See Blaine, Joseph R., assignor.)
- Wheeler, Clyde H., Midland Park Borough, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin-collection apparatus. 1,717,079; June 11.
- Wheeler, Delbert, Sioux Falls, S. Dak. Road machine. 1,722,725; July 30.
- Wheeler, Evan R., North Plainfield, N. J., and R. F. Dirkes, Jamaica, assignors to The Western Union Telegraph Company, New York, N. Y. Selecting mechanism for telegraph type-wheel printers. 1,714,334; May 21.
- Wheeler, Frank T., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed switch. 1,705,080; Mar. 12.
- Wheeler, Harley T., assignor to B. H. Wheeler, Dallas, Tex. Nonreversible pump. 1,739,195; Dec. 10.
- Wheeler, Harold E., Chicago, Ill. Printer. 1,739,110; Dec. 10.
- Wheeler, Harry, assignor to R. G. Palmer, Warwick, England. Centrifugal pump. 1,718,396; June 25.
- Wheeler, Harvey C. (See Thompson, Charles W., assignor.)
- Wheeler, Henry H. (See Neumair, J. A., and Wheeler.)
- Wheeler, Hugh R., jr., Colfax, Wash. Toy gun. 1,699,416; Jan. 15.
- Wheeler, James F., Indianapolis, Ind. Bulb dropper. 1,738,218; Dec. 3.
- Wheeler, John L., assignor of one-half to Superior Brass & Mfg. Co., St. Louis, Mo. Fabric-measuring machine. 1,701,991; Feb. 12.
- Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Length-indicating mechanism for fabric measuring machines. 1,705,164; Mar. 12.
- Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Fabric-measuring and cost-computing machine. 1,738,546; Dec. 10.
- Wheeler, John R., West Mystic, assignor to The Standard Machinery Co., Mystic, Conn. Feed mechanism for embossing presses and the like. 1,731,834; Oct. 15.
- Wheeler, Leamon B. (See Bulkley, R. C., and Wheeler.)
- Wheeler, Leland, assignor to Turner Machine Company, Inc., Danbury, Conn. Shrinking hat bodies and the like. 1,716,401; June 11.
- Wheeler, Leonard H. (See Davis, E. W., and Wheeler.)
- Wheeler, Leonard N., New York, N. Y. Car indicator. 1,718,674; June 25.
- Wheeler, Milton I., Los Angeles, Calif. Swimming pool. 1,731,554; Oct. 15.
- Wheeler, Raymond C., and P. W. Prutzman, Los Angeles, Calif. Regeneration of alkaline purifying beds. 1,728,156; Sept. 10.
- Wheeler, Raymond D. (See Hill, H. W., and Wheeler.)
- Wheeler Reflector Company. (See Sawin, Kenneth A., assignor.)
- Wheeler, Walter H., jr. (See Ogden, J. W., Lund, and Wheeler.)
- Wheeler, Walter H., jr., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Envelope-sealing device for postage meter machines. 1,697,036; Jan. 1.
- Wheeler, William, Brooklyn, N. Y. Internal-combustion engine. 1,699,215; Jan. 15.
- Wheeler, William, Brooklyn, N. Y. Internal-combustion engine. 1,725,385; Aug. 20.
- Wheeler, William, Brooklyn, N. Y. Internal-combustion engine. 1,730,182; Oct. 1.
- Wheeler, William H., New York, N. Y., and J. C. Logan, Jersey City, N. J. Anchorage device. 1,705,793; Mar. 19.
- Wheeler, William H., New York, N. Y., and J. C. Logan, Jersey City, N. J. Anchorage device. 1,705,794; Mar. 19.
- Wheeler, William H., Glen Ridge, N. J., assignor to Fedco Number Plate Corporation, New York, N. Y. Making identification plates. 1,722,778; July 30.
- Wheeler, William I., Scottville, Ill. Repair nose for plow-shares. 1,717,535; June 18.
- Wheeler, William I., Scottville, Ill. Power-transmission mechanism. 1,722,546; July 30.
- Wheeling Bronze Casting Company. (See Haller, Charles W., assignor.)
- Wheeling Machine Products Company. (See Briesse, A., and Callow, assignors.)
- Wheeling Mold & Foundry Company. (See Field, Herbert E., assignor.)
- Wheeling Stamping Company. (See Davis, Walter T., assignor.)
- Wheeling Stamping Company. (See Davis, W. T., and McGinnis, assignors.)
- Wheeling Stamping Company. (See Paull, A. W., and Davis, assignors.)
- Wheeling Steel Corporation. (See Kielberg, Henry, assignor.)
- Wheelock, Charles W., trustee. (See Dieterich, Ludwig M., assignor.)
- Wheelock, Charles W., assignor to Wheelock Manufacturing Company, Malden, Mass. Fire screen. 1,740,486; Dec. 24.
- Wheelock, Dickinson O., Miller, S. Dak., deceased; E. F. Wheelock, executor, assignor to E. M. Wheelock and A. D. Robertson, Minneapolis, Minn. Cooking apparatus. 1,717,592; June 18.
- Wheelock, E. F., executor. (See Wheelock, Dickinson O.)
- Wheelock, Edwin M., et al. (See Wheelock, Dickinson O., assignor.)
- Wheelock Manufacturing Company. (See Wheelock, Charles W., assignor.)
- Wheelwright, Geo. W. Paper Company. (See Lincoln, Carl E., assignor.)
- Wheelwright, Thomas S., assignor to Old Dominion Iron and Steel Works, Richmond, Va. Making fasces bolt stock. 1,738,487; Dec. 3.
- Whelan, Andrew T., Syracuse, N. Y. Operating table. 1,736,957; Nov. 26.
- Whelan, Augustin J., Jersey City, N. J. Twine cutter. 1,720,502; July 9.
- Whelan, James, Brooklyn, assignor of one-half to H. L. Sutcliffe, New York, N. Y. Heel-seat-trimming tool. 1,729,234; Sept. 24.
- Whelan, James F., Philadelphia, Pa. Electric lamp. 1,703,698; Feb. 26.
- Whelan, Joseph B. (See Hosler, C., and Whelan.)
- Whelan, Patrick J., Renfrew, Ontario, Canada. Smoking pipe. 1,713,204; May 14.
- Whelan, William B., Chicago, Ill. Water-circulation pre-heating system for internal-combustion engines. 1,716,715; June 11.
- Whelco Engineering & Manufacturing Company, The. (See Maki, Julius, assignor.)
- Whelpley, Earl G., assignor to The Shea-Whelpley Construction Company, Cleveland, Ohio. Checkerwork construction. 1,715,969; June 4.
- Whetstone, David L., et al. (See Todd, John N., jr., assignor.)
- Whidden, Samuel S., Portsmouth, N. H. Harness for children. 1,711,864; May 7.
- Whightsil, Alpha, Garnett, Kans. Engine stand. 1,721,424; July 16.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. Middle ornament for drapery-suspension fixtures. Des. 78,073; Mar. 19.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. Middle ornament for drapery. Suspension fixtures. Des. 78,074; Mar. 19.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. End ornament for curtain poles. Des. 78,425; Apr. 30.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. Supporting bracket for curtain poles. Des. 78,426; Apr. 30.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. Middle Ornament for a Drapery-Suspension Fixture. Des. 78,800; June 18.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. End ornament for a drapery-suspension fixture. Des. 78,801; June 18.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. Curtain pole. Des. 79,769; Oct. 29.
- Whincap, Frederic J., Grand Rapids, assignor to Kirsch Company, Sturgis, Mich. Curtain pole. Des. 79,770; Oct. 29.
- Whinnen, Eugene, Los Angeles, Calif., assignor to Sullivan Machinery Company. Core drill. 1,739,934; Dec. 17.



- Whippey, Frederick C., Chicago, Ill. Composite sheet material. 1,716,402; June 11.
- Whipple, Albert E. (See Speck, W. C., Barker, Whipple, and Dierker.)
- Whipple, Charles R., and T. C. Winn, Detroit, Mich. Drill stand. 1,741,044; Dec. 24.
- Whipple, Harry V. (See Phillips, Ross M. G., assignor.)
- Whipps, Solomon S., Minneapolis, Minn. Car truck. 1,704,452; Mar. 5.
- Whippy, Charles G., Lakewood, Ohio. Brassière. 1,731,033; Oct. 8.
- Whippy, George F., Brixton, London, J. Hooper, London, and W. H. T. Manley, Brixton, London, England. Advertising and like sign. 1,738,468; Dec. 3.
- Whirldry Corporation. (See Dunham, George W., assignor.)
- Whirldry Corporation. (See Mitchell, Albert W., assignor.)
- Whish, Alban C., Hayes, England. Regulating the voltage of electrical transformers. 1,715,215; May 28.
- Whitacre, Clarence J., Flint, and A. G. Geistert, Detroit, Mich. Clutch. 1,703,650; Feb. 26.
- Whitacre, John J., Carroll County, near Waynesburg, Ohio. Building block. 1,696,992; Jan. 1.
- Whitaker, Alfred, West Drayton, and C. O. Browne, Ealing Common, England, assignors to Victor Talking Machine Company. Light-controlling means. 1,740,673; Dec. 24.
- Whitaker, Alfred, West Drayton, and M. Bowman-Manifold, Hayes, England. Light controlling means. 1,742,115; Dec. 31.
- Whitaker, Gordon T., Beverly, assignor to Empire Metal Products Co., Inc., Lynnfield, Mass. Flashing. 1,736,237; Nov. 19.
- Whitaker, Jonathan and R., Savile Town, Dewsbury, England. Machine for dyeing, scouring, and washing wool and other fibrous materials. 1,742,114; Dec. 31.
- Whitaker, Joseph P. (See Fielding, John, assignor.)
- Whitaker, Rufus. (See Whitaker, Jonathan and R.)
- Whitbeck, John V., Cleveland, Ohio, assignor, by mesne assignments, to Hupp Motor Car Corporation, Detroit, Mich. Automobile fender. Dec. 79,218; Aug. 13.
- Whitby, George S., Montreal, Quebec, Canada, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Accelerator for the vulcanization of rubber. 1,735,701; Nov. 12.
- Whitby, Harvie W., Irvington, N. J. Thermionic valve. 1,710,328; Apr. 23.
- Whitbys Limited. (See Shipway, Stephen P., assignor.)
- Whitcher, Charles L., Santa Barbara, Calif. Hay loader. 1,709,334; Apr. 16.
- Whitcomb, Arthur W., Evanston, Ill. Mounting and light stop for double shade rollers. 1,740,213; Dec. 17.
- Whitcomb, Geo. D., Company. (See Whitcomb, W. C., and Eckert, assignors.)
- Whitcomb, John M., Redwood Falls, Minn. Ventilator for corncribs and the like. 1,723,101; Aug. 6.
- Whitcomb, Russell, New York, N. Y. Collapsible luggage carrier. 1,712,185; May 7.
- Whitcomb, William C., and W. F. Eckert, assignors to Geo. D. Whitcomb Company, Rochelle, Ill. Locomotive-spring support. 1,718,445; June 25.
- Whitcomb, William C., and W. F. Eckert, assignors to Geo. D. Whitcomb Company, Rochelle, Ill. Spring support for railway cars. 1,718,446; June 25.
- White, Annie E. C., New Cambria, Kans. Tray. 1,732,824; Oct. 22.
- White, Arthur C., assignor to The Dow Chemical Company, Midland, Mich. Bag. 1,716,403; June 11.
- White, Austin G., Morgantown, W. Va., assignor to The States Company. Wire clamp. 1,725,553; Aug. 20.
- White Beauty Electric Company. (See Anderson, Allen, assignor.)
- White, Burt C., Detroit, Mich. Leak indicator for pressure lines. 1,732,035; Oct. 15.
- White, Calvin J., St. Ignace, Mich. Tire tool. 1,741,801; Dec. 31.
- White Cap Company. (See White, George P., assignor.)
- White Castle System, Inc., The. (See Ray, Loyd W., assignor.)
- White, Charles C., New York, N. Y. Door. 1,719,638; July 2.
- White, Charles E., Youngstown, Ohio. Furnace cleaner. 1,698,180; Jan. 8.
- White, Charles E., assignor to Deere & Company, Moline, Ill. Planting mechanism. 1,741,216; Dec. 31.
- White, Charles H., assignor to Deere & Company, Moline, Ill. Disk-barrow mechanism. 1,707,745; Apr. 2.
- White, Chesterfield, assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Packing case. 1,712,782; May 14.
- White, Clarence B., Philadelphia, Pa. Salvaging storage-battery electrodes. 1,715,262; May 28.
- White, Clarence B., Montclair, assignor, by mesne assignments, to Vivatex Processes, Inc., Lodi, N. J. Textile material and treating the same. 1,717,483; June 18.
- White, Clarence W. (See Rodrick, Raymond A., assignor.)
- White, Clarence W., North Bennington, Vt. Shaving-brush attachment. 1,720,868; July 16.
- White, Clarence W., North Bennington, Vt. Child's vehicle. 1,738,858; Dec. 10.
- White, Clarence W., assignor to H. C. White Company, North Bennington, Vt. Spring for juvenile vehicles. 1,700,459; Jan. 29.
- White, Claude E., assignor, by mesne assignments, to Gat Gun Lubricating Corporation, Oakland, Calif. Die for forming washers. 1,738,547; Dec. 10.
- White, Clayton O., De Beque, Colo. Apparatus for distilling oil shale. 1,703,413; Feb. 26.
- White, Clifford. (See Lyon, R. W., and White.)
- White Cloud Farms Inc. (See Bacher, Will L., assignor.)
- White, Clyde L., assignor to The Willys-Overland Co., Toledo, Ohio. Front-wheel brake. 1,717,176; June 11.
- White Company, The. (See Churcher, William B., assignor.)
- White Company, The. (See Gielt, A. B., and Knowles, assignors.)
- White, D'Orsay M., assignor to Motor Industries, Inc., Chicago, Ill. Wheel mounting. 1,697,214; Jan. 1.
- White, D'Orsay M., assignor to Motor Industries, Inc., Chicago, Ill. Making wheel parts. 1,709,163; Apr. 16.
- White, Douglas G. F., Hammersmith, London, England. Valve for internal-combustion engines. 1,740,758; Dec. 24.
- White Eagle Oil and Refining Company. (See Burkhard, Myron J., assignor.)
- White, Edward A., Lewiston, Idaho. Sizing machine. 1,710,199; Apr. 23.
- White, Edward A., Lewiston, Idaho. Fruit-drying apparatus. 1,711,763; May 7.
- White, Edward A., Lewiston, Idaho. Motion storage apparatus for fruit. 1,716,404; June 11.
- White, Edward A., Lewiston, Idaho. Hydraulic fruit-treating machine and method. 1,721,537; July 23.
- White, Edward F., Philadelphia, Pa. Coin-controlled vending machine. 1,717,593; June 18.
- White, Edward F., Rochester, N. Y. Treating sulphur. 1,734,066; Nov. 5.
- White, Edwin J., Seattle, Wash. Resilient wheel. 1,711,819; May 7.
- White, Edwin H., Newark, N. J. Method of and apparatus for manufacturing tiles. 1,727,580; Sept. 10.
- White, Edwin L., Honolulu, Hawaii, assignor to Wired Radio, Inc., New York, N. Y. Duplex radio communication system. 1,735,344; Nov. 12.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lighting fixture. 1,700,344; Jan. 29.
- White, Ernest C., New York, N. Y., assignor to Graybar Electric Company, Inc. Hanger for electric-lighting units. 1,716,017; June 4.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lamp socket. 1,727,148; Sept. 3.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lighting fixture. 1,727,149; Sept. 3.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lighting fixture. 1,727,150; Sept. 3.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Globe holder for electric-lighting fixtures. 1,727,151; Sept. 3.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lighting device. 1,733,567; Oct. 29.
- White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical connecting and supporting device. 1,734,187; Nov. 5.
- White, Ernest C., New York, N. Y., assignor of one-half to R. F. Fisher, Philadelphia, Pa. Electric-lighting fixture. 1,735,068; Nov. 12.
- White, Everett H., St. Paul, Minn. Heat regulator. 1,722,361; July 30.
- White, Evert R., Salem, Oreg. Attachment for automobile brakes. 1,732,997; Oct. 22.
- White, Ezekiel F., Chicago, Ill. Fuel metering and feeding device. 1,734,659; Nov. 5.
- White, Forest F., Independence, Mo. Oscillating valve. 1,698,040; Jan. 8.
- White, Frank E. (See Carrillo, Alexander C., assignor.)
- White, Frank E. (See Sommers, A. L., and White.)
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Hopper and driving mechanism. 1,739,996; Dec. 17.
- White, Franklin R., Waterbury, and L. R. Carley, Waterbury, assignors to The Patent Button Company, Waterbury, Conn. Flexible button. 1,718,843; June 25.
- White, Franklin R., Waterbury, and L. R. Carley, Waterbury, assignors to The Patent Button Company, Waterbury, Conn. Flexible button. 1,718,844; June 25.
- White, George A. (See Scofield, T. J., and White.)
- White, George C., Irvington, N. J. Scoop. 1,703,023; Feb. 19.
- White, George D., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Process and apparatus for treating oils. 1,726,280; Aug. 27.
- White, George E. (See Ostrander, W. H., and White.)
- White, George N. (See Lander, J. L., and White.)
- White, George P., assignor to White Cap Company, Chicago, Ill. Pressure processing apparatus. 1,732,321; Oct. 22.
- White, George S., Los Angeles, Calif. Magnetic keeper cradle. 1,738,859; Dec. 10.
- White, George W., Hutchinson, Kans., assignor to J. S. Edwards, Kansas City, Mo. Header-thrashing attachment. 1,739,380; Dec. 10.



- White, Gerald N. (See Carpenter, S. W., and White.)  
 White, H. C., Company. (See White, Clarence W., assignor.)  
 White, Harold E., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature regulator. 1,705,694; Mar. 19.  
 White, Harold E., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,735,225; Nov. 12.  
 White, Harold E., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal circuit controller. 1,736,989; Nov. 26.  
 White, Harry, Kenmore, Ohio. Suction cleaner. 1,718,804; June 25.  
 White, Harry F., Fresno, Calif. Illuminated sign. 1,741,748; Dec. 31.  
 White, Harry R. L. (See Brady, K. T., and White.)  
 White, Harry R. L. (See Osborne, H. J., and White.)  
 White, Henry, sr. (See White, Henry, jr., assignor.)  
 White, Henry, jr., assignor of one-half to H. White, sr., Buffalo, N. Y. Automobile signal. 1,706,269; Mar. 19.  
 White, Henry J., New York, N. Y., assignor to Bethlehem Milling Company. Treating grain. 1,706,760; Mar. 26.  
 White, Herbert E., assignor to Truscon Steel Company, Youngstown, Ohio. Floor and ceiling construction. 1,706,945; Mar. 26.  
 White, Herbert J., assignor to Gleason Works, Rochester, N. Y. Machine for producing gears. 1,730,637; Oct. 8.  
 White, Howard E., assignor of one-half to H. R. Allen, Holdenville, Okla. Jack tool. 1,738,679; Dec. 10.  
 White, James F. (See Dawson, A. T., White, and Buckham.)  
 White, John C., assignor of forty-nine one-hundredths to J. M. Hutcheson, Eureka, Calif. Welding apparatus. 1,740,133; Dec. 17.  
 White, John C., and R. W. Miller, Madison, Wis. Temperature controller. 1,713,016; June 18.  
 White, John D., Wichita Falls, Tex. Sign. 1,740,674; Dec. 24.  
 White, John F., assignor to White Products Co., Chicago, Ill. Hood latch. 1,734,282; Nov. 5.  
 White, John H., Cranford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Metallurgical process. 1,700,460; Jan. 29.  
 White, John H., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric conductor. 1,725,773; Aug. 27.  
 White, John H., Cranford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Production of finely divided metallic materials. 1,739,052; Dec. 10.  
 White, John J., Spokane, Wash. Resilient support. 1,733,479; Oct. 29.  
 White, John R., Long Island City, N. Y. Dough composition and making the same. 1,729,409; Sept. 24.  
 White, John R., New York, assignor of one-half to H. Leeds, Long Island City, N. Y. Producing yeast. 1,727,847; Sept. 10.  
 White, John S., Paducah, Ky., assignor of one-third to R. R. Russell, Navarre, Ohio, and one-third to F. R. Rieke, Paducah, Ky. Ventilator. 1,707,888; Apr. 2.  
 White, John W. (See Pfeiffer, F. B., and White.)  
 White, Joseph, Jersey City, N. J. Hospital rolling cot. 1,738,548; Dec. 10.  
 White, Joseph A., assignor to G. Collins, Philadelphia, Pa. Mixing tank. 1,696,994; Jan. 1.  
 White, Joseph M., Laconia, N. H. Device for carrying keys. 1,709,761; Apr. 16.  
 White, Julius A., New York, N. Y. Folding foot and leg control system. 1,739,935; Dec. 17.  
 White, Leland C., Norwalk, Ohio. Toy balloon. 1,718,508; June 25.  
 White, Lloyd C. (See Burch, A., and White.)  
 White, Melbourne W. (See Yeaton, S. O., and White.)  
 White Motor Company, The. (See Church, Harold D., assignor.)  
 White Motor Company, The. (See Churcher, William B., assignor.)  
 White Motor Company, The. (See Edgerton, Arthur H., assignor.)  
 White Motor Company, The. (See Goode, Gilbert C., assignor.)  
 White Motor Company, The. (See Jeffrey, M. L., and Snyder, assignors.)  
 White, Nelson, Ithaca, N. Y., assignor to Burroughs Adding Machine Company, Detroit, Mich. Denominator attachment for adding machines. 1,730,106; Oct. 1.  
 White, Nelson, W. S. Overlin and F. A. Bullington, Portland, Oreg., assignors, by mesne assignments, to Remington Arm Company, Inc., New York, N. Y. Mechanical cashier, adding and listing machine. 1,723,263; Aug. 6.  
 White, Paul H., Indianapolis, Ind. Powder distributor. 1,710,560; Apr. 23.  
 White Pine Sash Company. (See Edmond, Oscar G., assignor.)  
 White Products Co. (See White, John F., assignor.)  
 White, Raymond E. (See Page, C. B., Burton, Mayr, and White.)  
 White, Rex V., Mound Valley, Kans. and P. D. Wynn, Osage, assignors of one-third to W. A. Brooks, Marland, Okla. Pump for motor-vehicle air brakes. 1,707,746; Apr. 2.  
 White, Richard P., Chicago, Ill. Display jar. 1,703,185; Feb. 26.  
 White, Richard P., Chicago, Ill. Display vessel and hinge therefor. 1,740,965; Dec. 24.  
 White, Richard W., et al. (See Robinson, James W., assignor.)  
 White, Richard W., assignor to Lawyers Co-Operative Publishing Co., Rochester, N. Y. Holder for the bindings of books for supplemental sheets. 1,709,450; Apr. 16.  
 White, Robert. (See Powell, A., and White.)  
 White Rock Mineral Springs Company. (See Dalrymple, Philip W., assignor.)  
 White, Ronald F., Midland, Ontario, Canada. Grain-car door. 1,736,894; Nov. 26.  
 White, Roy A. (See Hamilton, G. H., and White.)  
 White, Roy A., Walker Township, Kent County, assignor to American Seating Company, Grand Rapids, Mich. Link hinge. 1,719,253; July 2.  
 White, S. S., Dental Manufacturing Company, The. (See Angell, Robert C., assignor.)  
 White, S. S., Dental Manufacturing Company, The. (See Field, Fred H., assignor.)  
 White, S. S., Dental Manufacturing Company, The. (See Hollowell, Clifton C., assignor.)  
 White, S. S., Dental Manufacturing Company, The. (See Hawksworth, Frank G., assignor.)  
 White Sewing Machine Corporation. (See Hillix, Foster F., assignor.)  
 White, Starley, Stuttgart, Ark. Deep-well pump. 1,711,764; May 7.  
 White, Thomas U. (See Wensley, R. J., and White.)  
 White, Thomas U. (See Wensley, R. J., White, and Gardner.)  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Signaling system. 1,708,989; Apr. 16.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,714,963; May 28.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,714,969; May 28.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,714,970; May 28.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Signaling system. 1,714,973; May 28.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical control system. 1,714,974; May 28.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervising and control system. 1,726,009; Aug. 27.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,737,037; Nov. 26.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory rest. 1,738,810; Dec. 10.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,740,487; Dec. 24.  
 White, Thomas U., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,740,556; Dec. 24.  
 White, Thomas U., Pittsburgh, and J. E. Gardner, Wilksburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Signaling system. 1,714,971; May 28.  
 White, Thomas U., Pittsburgh, and J. E. Gardner, Wilksburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Signaling system. 1,714,972; May 28.  
 White, Wallace D., Nashua, N. H., assignor to National Bread Wrapping Machine Company, Boston, Mass. Roll-paper retainer. 1,734,317; Nov. 5.  
 White, Walter P., Washington, D. C. Speed-indicating device for golf clubs. 1,712,537; May 14.  
 White, William, Newark, N. J. Automatic bowling alley. 1,712,186; May 7.  
 White, William C., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 1,712,370; May 7.  
 White, William C., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. 1,723,904; Aug. 6.  
 White, William C., Schenectady, N. Y., assignor to General Electric Company. Signaling system. 1,728,816; Sept. 17.  
 White, William E., assignor to Kalman Steel Company, Chicago, Ill. Spacer and support for bars. 1,712,801; May 14.  
 White, William E., assignor to Kalman Steel Company, Chicago, Ill. Slab reinforcement. 1,720,193; July 9.  
 White, William E., assignor to Kalman Steel Company, Chicago, Ill. Concrete reinforcement. 1,724,444; Aug. 13.  
 White, William E., assignor to Kalman Steel Company, Chicago, Ill. Road strip and dowel-bar support. 1,727,951; Sept. 10.  
 White, William E., assignor to Kalman Steel Company, Chicago, Ill. Bar support and spacer. 1,727,952; Sept. 10.  
 White, William E., assignor to Kalman Steel Company, Chicago, Ill. Road strip and support. 1,733,764; Oct. 29.



- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Building construction. 1,733,765; Oct. 29.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Bridging. 1,734,701; Nov. 5.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Bridging for joists. 1,735,590; Nov. 12.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Bridging for joists. 1,735,591; Nov. 12.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Mat chair. 1,735,592; Nov. 12.
- White, William E., assignor to Kalman Steel Company, Chicago, Ill. Reenforcing fabric support. 1,737,396; Nov. 26.
- White, William H., Quincy, assignor to Regal Shoe Company, Whitman, Mass. Shoe-polishing stand. 1,717,594; June 18.
- White, William M., Norman, Okla. Vaporizing spray for fruit and vegetable display racks. 1,711,512; May 7.
- White, William M., Norman, Okla. Fruit and vegetable rack and vapor spray. 1,724,153; Aug. 13.
- White, William W., Kennett Square, Pa., assignor to P. L. Garrett, Wilmington, Del., trustee. Shipping container. 1,709,510; Apr. 16.
- Whitcar, Frank, Irvington, N. J., assignor to General Motors Corporation, Detroit, Mich. Punching machine. 1,736,958; Nov. 26.
- Whited, Harry W., Nacogdoches, Tex. Branding device. 1,716,937; June 11.
- Whiteford, Alexander W., et al., trustees. (See Ducas, Charles, assignor.)
- Whitehead & Hoag Company. (See Hoag, Philip O., assignor.)
- Whitehead, James F. and F. W. Zink, assignors to Kales Stamping Company, Detroit, Mich. Mirror support. 1,700,524; Jan. 29.
- Whitehead & Kales Company. (See Judd, Irving H., assignor.)
- Whitehead & Kales Company. (See Putman, Alden L., assignor.)
- Whitehead and Kales Company. (See Weeks, J. R., and Greenwald, assignors.)
- Whitehead, La Salle H., Orleans, Nebr. Wire grip. 1,725,324; Aug. 20.
- Whitehead, Thomas C. (See Greenwald, Harold A., assignor.)
- Whitehead, Thomas C. (See Greenwald, H. A., and Heideman, assignors.)
- Whitehead, Thomas C. (See Heideman, Fred J., assignor.)
- Whitehead, Thomas C. (See Rainsford, T. F., and Whitehead, assignors.)
- Whitehead, Thomas C. (See Rainsford, Thomas F., assignor.)
- Whitehead, Thomas C., Detroit, Mich. Lubricating system. 1,715,397; June 4.
- Whitehead, Thomas C., and F. J. Heideman, Detroit, Mich.: said Heideman assignor to said Whitehead. Condenser. 1,713,109; May 14.
- Whitehead, William. (See Palmer, C. W., and Whitehead.)
- Whitehead, William, Cumberland, Md., assignor to Celanese Corporation of America. Dyeing of organic derivatives of cellulose. 1,738,978; Dec. 10.
- Whitehill, David B., Clarendon, Pa. Lubricator. 1,729,143; Sept. 24.
- Whitehorse, William R., Lewiston, Me. Color photography. 1,724,445; Aug. 13.
- Whitehouse, John T., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Deadlock for jail doors. 1,714,150; May 21.
- Whitehurst, R. W., Manufacturing Corporation. (See Hix, C. H., Jr., and Sykes, assignors.)
- Whitelegg, Robert H., Disley, England. Articulated locomotive. 1,734,508; Nov. 5.
- Whiteley, James, Olcott, N. Y. Amusement-building front. Des. 78,701; June 4.
- Whiteley, Wilfred, Elland, England. Preventing doubles in ring spinning, doubling, and like frames. 1,713,938; May 21.
- Whiteman, Andean W., San Francisco, Calif. Paper-banger's bucket and brush stand. 1,716,405; June 11.
- Whiteman, James C., Richmond, England. Carburetor. 1,703,914; Mar. 5.
- Whitenack, Charles H. (See Müller, Fred W., assignor.)
- Whitesell, Frederick N., assignor to Fairbanks, Morse & Co., Chicago, Ill. Automatic feeder. 1,705,885; Mar. 19.
- Whitin, Herbert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion. 1,737,694; Dec. 3.
- Whitin Machine Works. (See Barker, Dyson, assignor.)
- Whitin Machine Works. (See Hartley, Ellis, assignor.)
- Whitin Machine Works. (See Helland, Sigurd H., assignor.)
- Whitin Machine Works. (See Hendrickson, Fred K., assignor.)
- Whitin Machine Works. (See Kooistra, John A., assignor.)
- Whitin Machine Works. (See Nelson, Harmon O., assignor.)
- Whitin Machine Works. (See Pichette, John J., assignor.)
- Whitin Machine Works. (See Schimek, Joseph F., assignor.)
- Whiting-Adams Company. (See Hill, Edward M., assignor.)
- Whiting, Charles A., Franklin, Mass., assignor to Whiting & Davis Company. Bracelet chain. 1,730,105; Oct. 1.
- Whiting Corporation. (See Benton, Homer W., assignor.)
- Whiting Corporation. (See Betham, M. F., and Moore, assignors.)
- Whiting Corporation. (See Coffey, Oscar L., assignor.)
- Whiting Corporation. (See Holmes, L. D., and Townsend, assignors.)
- Whiting Corporation. (See Phelps, Barton P., assignor.)
- Whiting & Davis Company. (See Rice, Sturgis C., assignor.)
- Whiting & Davis Company. (See Sweeting, Fred, assignor.)
- Whiting & Davis Company. (See Whiting, Charles A., assignor.)
- Whiting, Donald F., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio apparatus. 1,722,068; July 23.
- Whiting, Frederick L., Larchmont, N. Y. Clinical stove. 1,718,018; June 18.
- Whiting, Harry A., C. J. Hughes, and S. J. Maher, St. Paul, Minn. Folding high chair. 1,738,339; Dec. 3.
- Whiting, Max A., Schenectady, N. Y., assignor to General Electric Company. Control of dynamo-electric machines. 1,708,747; Apr. 9.
- Whiting, Max A., Schenectady, N. Y., assignor to General Electric Company. Control of dynamo-electric machines. 1,717,823; June 13.
- Whiting, Max A., and E. D. Harrington, Schenectady, N. Y., assignors to General Electric Company. Elevator control. 1,717,862; June 18.
- Whiting-Patterson Co. (See Labram, Alfred, assignor.)
- Whitlam, Frederick C., assignor to S. Rosenberger Coates & Company Limited, London, England. Display of wearing apparel. 1,725,435; Aug. 20.
- Whitlock Coil Pipe Company, The. (See Beekley, W. C., and Martens, assignors.)
- Whitlock Coil Pipe Company, The. (See Jacocks, George T., assignor.)
- Whitlock, George E., Toledo, Ohio. Tread. 1,739,997; Dec. 17.
- Whitlock Universal Carriage Co. (See Whitlock, William R., assignor.)
- Whitlock, William R., assignor to Whitlock Universal Carriage Co., Aberdeen, Wash. High-line carriage. 1,725,325; Aug. 20.
- Whitman Barnes-Detroit Corporation. (See Petley, Henry, assignor.)
- Whitman, Daniel W., Miami, Fla. Playground apparatus. 1,729,529; Sept. 24.
- Whitman, Walter L., 2d. (See Williams, J. A., and Whitman.)
- Whitmill, William H. (See Pugh, J. V., and Whitmill.)
- Whitmire, Elbert N., Walhalla, S. C. Cutter. 1,730,907; Oct. 8.
- Whitmore, Max C., Chicago, Ill. Radiocabinet. Des. 78,136; Mar. 26.
- Whitmore, Samuel, Riverhurst, Saskatchewan, assignor of one-half to G. Skulsky, Riverhurst, Canada. Clothespin. 1,699,037; Jan. 15.
- Whitnall, George R., assignor to Northern Conveyor & Mfg. Co., Janesville, Wis. Material-handling machine. 1,710,129; Apr. 23.
- Whitney, Carl E., et al., executors. (See Schweinert, Maximilian C.)
- Whitney, Clarence E., et al., executors. (See Hanson, Bengt M. W.)
- Whitney, Esmond G. (See Fought, E. K., and Whitney.)
- Whitney, F. A., Carriage Company. (See Ambler, George B., assignor.)
- Whitney, F. A., Carriage Company. (See Shaw, Harold F., assignor.)
- Whitney, George E., assignor to S. Zimmer, Bridgeport, Conn. Service tray. 1,709,927; Apr. 23.
- Whitney, George E., assignor to S. Zimmer, Bridgeport, Conn. Service tray. 1,709,928; Apr. 23.
- Whitney, Gilbert C., New York, N. Y. Train-indication system. 1,706,013; Mar. 19.
- Whitney, Gilbert C., New York, N. Y. Railway-traffic-controlling system. 1,715,485; June 4.
- Whitney, Harry L., and H. A. Lyon, Toledo, Ohio. Ensilage and feed cutting machine. 1,735,226; Nov. 12.
- Whitney, Horace E., Cambridge, Mass. Measuring can. 1,706,336; Mar. 19.
- Whitney, John G., Elyria, Ohio. Display device. 1,726,786; Sept. 3.
- Whitney, Laurence H., Pittsfield, Mass., assignor to General Electric Company. Lightning arrester. 1,717,292; June 11.
- Whitney, Lyman F., Boston, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc. Aspirator installation. 1,710,910; Apr. 30.
- Whitney Manufacturing Company, The. (See Müller, Friederich, assignor.)
- Whitney, Matt, Colorado Springs, Colo. Device for hanging electrical fixtures. 1,733,325; Oct. 29.
- Whitney, Maurice P., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,721,241; July 16.
- Whitney Metal Tool Company. (See Jensen, John, assignor.)
- Whitney, Vincent J., San Francisco, Calif. Casement-window support. 1,735,367; Nov. 12.
- Whitney, William E., Germantown, Pa., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass. Method of and apparatus for registering films. 1,707,699; Apr. 2.



- Whiton, D. E., Machine Company, The. (See Whiton, L. E., and Midwood, assignors.)
- Whiton, Lucius E., New London, Conn. Chuck. 1,713,796; May 21.
- Whiton, Lucius E., New London, Conn. Power transmission. 1,713,797; May 21.
- Whiton, Lucius E., New London, Conn. Lathe chuck. 1,713,799; May 21.
- Whiton, Lucius E., New London, Conn. Automatic chuck. 1,713,800; May 21.
- Whiton, Lucius E., New London, Conn. Lathe chuck. 1,713,801; May 21.
- Whiton, Lucius E., New London, Conn. Chuck. 1,713,802; May 21.
- Whiton, Lucius E., New London, Conn. Lathe chuck. 1,713,803; May 21.
- Whiton, Lucius E., New London, Conn. Chuck. 1,713,804; May 21.
- Whiton, Lucius E., New London, Conn. Chuck. 1,713,805; May 21.
- Whiton, Lucius E., New London, Conn. and G. A. Midwood, jr., West Barrington, R. I., assignors to The D. E. Whiton Machine Company, New London, Conn. Lathe chuck. 1,713,798; May 21.
- Whitridge, John C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car coupling. 1,703,049; Feb. 19.
- Whitridge, John C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck construction. 1,708,990; Apr. 16.
- Whitsett, Cameron A., et al. (See Stearns, Harry C., assignor.)
- Whitson, Delmar A., Los Angeles, assignor, by mesne assignments, to The Magnavox Company, Oakland, Calif. Duplex loud talker. 1,713,205; May 14.
- Whitson, Gertrude, Los Angeles, Calif. Composite picture. 1,702,099; Feb. 12.
- Whitson, Ralph A. (See Illemann, R., and Whitson.)
- Whitt, Frances C., et al. (See Cox, Cary S., assignor.)
- Whittaker, Charles C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature indicator for motors. 1,709,643; Apr. 16.
- Whittaker, Earl J., et al. (See Whittaker, Earl J., assignor.)
- Whittaker, Earl J., Aberdeen, assignor to H. W. Bailey, Seattle, Wash. Cutting machine for the making of shingles. 1,710,392; Apr. 23.
- Whittaker, Earl J., Aberdeen, Wash., assignor, by mesne assignments, to C. P. Wright and E. J. Whittaker. Veneer-cutting machine. 1,729,975; Oct. 1.
- Whittaker, Harold F. (See Coleman, C. E., Whittaker, and Sharpe.)
- Whittaker, Harry, Methuen, Mass. Napping rolls. 1,720,252; July 9.
- Whittall, M. J., Associates. (See Bauer, Marius A., assignor.)
- Whittall, M. J., Associates. (See Lassey, Walter W., assignor.)
- Whittam, Benjamin B., Elizabeth, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler. 1,737,988; Dec. 3.
- Whittemore, Carl R., Montreal, Quebec, Canada. Producing titanium oxide from titaniferous iron ores. 1,699,173; Jan. 15.
- Whittemore, Herbert L., Washington, D. C. Wire rope. 1,699,174; Jan. 15.
- Whittemore, Herbert L., Washington, D. C. Dial micrometer. 1,729,466; Sept. 24.
- Whittemore, Wallace E., Los Angeles, Calif. Knife sharpener. 1,732,705; Oct. 22.
- Whitten, Frank A., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Automobile radiator closure. 1,698,147; Jan. 8.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor support. 1,701,400; Feb. 5.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Spring suspension. 1,703,328; Feb. 26.
- Whitten, Frank A., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Propeller-shaft-bearing mounting. 1,706,505; Mar. 26.
- Whitten, Frank A., Detroit, Mich., assignor to American Car and Foundry Motors Company, New York, N. Y. Generator cover. 1,706,506; Mar. 26.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Floor plate and steering-column support. 1,707,747; Apr. 2.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Hood fastener. 1,738,746; Dec. 10.
- Whittenberg, Charles E., Knoxville, Iowa. Road-preparing machine. 1,722,547; July 30.
- Whittet, Claude, Havana, Ill. Drilling machine. 1,723,592; Aug. 6.
- Whittier, Albert E., Bristol, Conn. Thermostatic control for electrically-heated apparatus. Re17,391; July 30.
- Whittier, Albert E., Bristol, Conn. Thermostatic control for electrically-heated apparatus. 1,713,578; May 21.
- Whittier, Elmer S., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube manufacture. 1,716,608; June 11.
- Whittingham, George H., Baltimore, Md., assignor, by mesne assignments, to Technidyne Corporation, New York, N. Y. Tuning device. Re17,194; Jan. 15.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Resistance unit. 1,706,014; Mar. 19.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Compensating thermal relay. 1,718,017; June 18.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Connector for edgewise-wound resistance coils. 1,728,090; Sept. 10.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Resistor. 1,728,091; Sept. 10.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Thermal relay. 1,728,092; Sept. 10.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Thermal control of alternating-current electromagnetic devices. 1,738,488; Dec. 3.
- Whittingham, Richard A., Newark, Del. Oil seal for gear housings. 1,699,385; Jan. 15.
- Whittington, Frederik G., Evanston, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Windshield wiper. 1,715,343; May 28.
- Whittington, Frederik G., assignor to Stewart-Warner Corporation, Chicago, Ill. Steering-wheel drive for travel indicators. 1,722,779; July 30.
- Whittle, Horace, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical transmission circuits. 1,739,699; Dec. 17.
- Whittle, Horace, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission circuits. 1,741,749; Dec. 31.
- Whittle, Horace, and A. J. Christopher, assignors to Western Electric Company, Incorporated, New York, N. Y. Amplifying system. 1,714,149; May 21.
- Whittle, Oscar L., Warrington, England. Variable-speed gear. 1,718,267; June 25.
- Whittles, Joseph R. (See Belden, A. G., and Whittles.)
- Whitwell, John H., Philadelphia, Pa. Wall paper. Des. 79,541; Oct. 1.
- Whitwell, John H., Philadelphia, Pa. Wall paper. Des. 80,002; Nov. 26.
- Whitwell, John H., Philadelphia, Pa. Wall paper. Des. 80,003; Nov. 26.
- Whitwell, John H., Philadelphia, Pa. Wall paper. Des. 80,100; Dec. 10.
- Whitworth, Beville W., Omaha, Nebr. Vertically-adjustable shade hanger. 1,708,991; Apr. 16.
- Whitworth, Stanley, assignor, to Bendix Brake Company, South Bend, Ind. Brake. 1,728,384; Sept. 17.
- Whyte, James E., and D. McAulay, Niagara Falls, N. Y.; said McAulay assignor to said Whyte. Magazine and newspaper rack. 1,715,078; May 28.
- Whyte, William S., New York, N. Y. Lifter for stone blocks and the like. 1,729,467; Sept. 24.
- Wiat, Joseph P., Sydney, assignor to K. F. B. Foundry Limited, Sydney, New South Wales, Australia. Gas stove or oven. 1,720,387; July 9.
- Wiberg, Oscar A., Finspong, Sweden. Making blade rings for radial flow turbines. 1,740,800; Dec. 24.
- Wichelhaus, Paul, Syracuse, N. Y. Sash construction. 1,726,970; Sept. 3.
- Wichelhaus, Paul, Syracuse, N. Y. Conveying apparatus. 1,727,798; Sept. 10.
- Wichert, Alfred, Mannheim-Neustheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electric railway system. 1,704,958; Mar. 12.
- Wichman, Frank S. (See Otis, S., and Wichman.)
- Wichmann, John C., Los Angeles, Calif., assignor to Cactus Rubber Company of America. Rubber compound suitable for floor coverings. 1,720,533; July 9.
- Wichmann, John C., Los Angeles, Calif., assignor to Cactus Rubber Company of America. Making rubber-like materials. 1,730,702; Oct. 8.
- Wichmann, Otto, and L. H. Smith, Anchor, Ill. Fastener for automobile license plates. 1,706,761; Mar. 26.
- Wick, John S., Long Beach, Calif. Wrench. 1,704,067; Mar. 5.
- Wick, Louis J., assignor to Wicks Pipe Organ Co., Highland, Ill. Valve-operating mechanism for organs. 1,736,684; Nov. 19.
- Wicke, A. C., Manufacturing Company. (See Wicke, Charles E., assignor.)
- Wicke, Charles E., Mount Vernon, assignor to A. C. Wicke Manufacturing Company, New York, N. Y. Display case. Des. 77,383; Jan. 1.
- Wicke, Charles E., Mount Vernon, assignor to A. C. Wicke Manufacturing Company, New York, N. Y. Display case. 1,697,582; Jan. 1.
- Wickenden, Thomas H. (See McKnight, C., jr., Wickenden, and Merica.)
- Wickens, George B. (See Alexander, Nicholas, assignor.)
- Wickes Boiler Co. (See Baker, John F. L., assignor.)
- Wickes, Clarence S., Merchantville, N. J., assignor to Victor Talking Machine Company. Diaphragm. 1,729,305; Sept. 24.
- Wicks, Powers A., assignor to Willamette Iron and Steel Works, Portland, Ore. Logging unit. 1,738,747; Dec. 10.
- Wickey, Rudolph J., Phoenix, Ariz. Meter-box mold. 1,720,503; July 9.
- Wickham, Almeron W., et al. (See Booth, Levis M., assignor.)



- Wickland, Anton I. (See Halstead, S. M., and Wickland.)  
 Wickland, Leonard L., Minneapolis, Minn. Eyeshade. 1,722,120; July 23.  
 Wicklein, Gottfried, Nuremberg, Germany. Display container. 1,737,744; Dec. 3.  
 Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,723,224; Aug. 6.  
 Wicks, John, Oak Park, assignor to Reserve Holding Company, Chicago, Ill. Telephone system. 1,732,186; Oct. 15.  
 Wicks, John, Oak Park, assignor to Automatic Electric Inc., Chicago, Ill. Measured-service telephone system. 1,734,357; Nov. 5.  
 Wicks, John, Oak Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,738,624; Dec. 10.  
 Wicks Pipe Organ Co. (See Wick, Louis J., assignor.)  
 Wickstrom, Paul E., assignor of one-half to C. C. Bateson, Seattle, Wash. Journal bearing. 1,731,958; Oct. 15.  
 Wickstrum, Cecil M., Omaha, Nebr. Kneeling bench. 1,712,862; May 14.  
 Wickstrum, Cecil M., Omaha, Nebr. Kneeling bench. 1,712,863; May 14.  
 Wickstrum, Cecil M., Omaha, Nebr. Tent pin. 1,724,688; Aug. 13.  
 Wickstrum, Cecil M., Omaha, Nebr. Tent construction. 1,738,219; Dec. 3.  
 Wickwire, Arthur M., jr. (See Schneider, B. R., and Wickwire.)  
 Wico Electric Company. (See Hendrickson, Ira E., assignor.)  
 Wico Electric Company. (See Hubbell, Harry C., assignor.)  
 Wico Electric Company. (See Louis, Terrence G., assignor.)  
 Wico Electric Company. (See Robinson, Walter S., jr., assignor.)  
 Widdicombe, Charles P., Chicago, Ill. One-piece locomotive spring hanger and making the same. 1,705,795; Mar. 19.  
 Widegren, Emil H. (See Holmqvist, J. E., and Widegren.)  
 Widegren, Klas A. (See Holmqvist, J. E., and Widegren.)  
 Widell, Bernard O., West Hartford, assignor to The Wiremold Company, Hartford, Conn. Electrical-conduit construction. 1,729,315; Sept. 24.  
 Widell, Emil G., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Electron-discharge device. 1,716,159; June 4.  
 Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Cam-lubricating mechanism. 1,708,164; Apr. 9.  
 Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Machine for forming metal bands. 1,731,478; Oct. 15.  
 Widenmann, Theodore W., and M. R. Harris, assignors to Printing Register Co., Detroit, Mich. Paper-roll mounting for autographic registers. 1,705,514; Mar. 19.  
 Widerberg, Oscar A., Worcester, Mass. Cover lock for gas tanks and the like. 1,722,615; July 30.  
 Widerborg, Elmer. (See Collins, W. D., and Widerborg.)  
 Widestrom, Axel D., Stockholm, Sweden. Constant-temperature fireless cooker. 1,703,803; Feb. 26.  
 Widin, Edgar, Westfield, N. J. Machine for making concrete blocks. 1,733,706; Oct. 29.  
 Widman, Charles H., Detroit, Mich. Vehicle body construction. 1,731,602; Oct. 15.  
 Widman, Charles H., Detroit, Mich., assignor to The Murray Corp. of America. Vehicle body. Des. 78,547; May 14.  
 Widman, Elmer, Los Angeles, Calif. Stocking. Des. 78,954; July 9.  
 Widman, Frank J., Oak Park, Ill. Stoker. 1,735,913; Nov. 19.  
 Widmer, Gustav. (See Gams, A., and Widmer.)  
 Widmer, Harry A. (See Lewis, A., and Widmer.)  
 Widmer, Jules A., assignor to Square D. Company, Detroit, Mich. Electric switching device. 1,715,339; May 28.  
 Widney, Stanley W., Philadelphia, Pa. Apparatus for charting the riding qualities of vehicles. 1,722,069; July 23.  
 Wieand, Henry A., Wyncote, Pa. Baffle strainer for water-circulating systems and the like. 1,726,328; Aug. 27.  
 Wiebmer, Anton, Quincy, Ill. Outlet box. 1,702,986; Feb. 19.  
 Wiebold, Christian H., Leigh, Nebr. Door hanger. 1,709,698; Apr. 16.  
 Wiebusch, Charles F., New York, N. Y. Display device. 1,719,681; July 2.  
 Wiebusch, Clarence J., Lake City, Minn. Cream cooler. 1,728,146; Sept. 10.  
 Wiechacz, Stanley, Detroit, Mich. Aeroplane. 1,716,995; June 11.  
 Wiedemann, Olaf C., Revere, Mass. Printer's quoin. 1,739,111; Dec. 10.  
 Wiederbold, Hermann, Furstenwalde-on-the-Spree, Germany, assignor to N. V. Nederlandsche Mijnbouw en Handel Maatschappij, Amsterdam, Netherlands. Manufacturing cyanides. 1,727,261; Sept. 3.  
 Wiedmaier, Arthur A., assignor of one-half to L. M. Field, Cleveland, Ohio. Transmission mechanism. 1,719,861; July 9.  
 Wiedner, George E., et al. (See Traver, Philip C., assignor.)  
 Wiegand, Albert P., Crafton, Pa. Reversible-blade propeller. 1,719,953; July 9.  
 Wiegand, Edwin L., Dormont, Pa. Electric strip heater. 1,721,099; July 16.  
 Wiegand, Edwin L., Dormont, assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric heating device. 1,706,015; Mar. 19.  
 Wiegand, Edwin L., Dormont, assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric heating device. 1,706,016; Mar. 19.  
 Wiegand, Edwin L., Dormont, assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric heating device. 1,706,017; Mar. 19.  
 Wiegand, Edwin L., Company. (See Kiegand, Edwin L., assignor.)  
 Wiegand, Ernest H., and D. E. Bullis, Corvallis, Oreg., assignors, by mesne assignments, to the Citizens of the United States. Grading of fresh or dry fruits. 1,728,583; Sept. 17.  
 Wiegand, Kurt, Berlin, Germany, assignor to General Electric Company, Beacon, N. Y. 1,706,091; Mar. 19.  
 Wiehl, Alfred, Brooklyn, N. Y. Album for phonograph records. 1,695,249; Jan. 8.  
 Wiehl, Alfred, Brooklyn, N. Y. Combination radio phonograph loud speaker. 1,703,975; Mar. 5.  
 Wiehle, Edward W., Chicago, Ill., assignor to Birtman Electric Company. Handle and switch. 1,735,556; Nov. 12.  
 Wieland, Max, Auerbach, near Chemnitz, Germany. Conical bobbin arranged with steps. 1,713,990; May 21.  
 Wieman, Kammerer, Wright Co. (See Wright, J. C., and Bonney, assignors.)  
 Wiemer, Henry, Dow City, Iowa. Water-pan holder. 1,698,355; Jan. 8.  
 Wiencke, Otto, Leipzig, Germany. Rotary platelike screen. 1,717,902; June 18.  
 Wiener, John A., Laurel, Miss. Fiber-stock-refining apparatus. 1,730,903; Oct. 8.  
 Wiener, John A., Rothschild, Wis. Regulating mechanism for steam-generating plants. 1,734,702; Nov. 5.  
 Wienskowitz, Paul, Berlin, Germany. Fastening means for footwear. 1,739,023; Dec. 10.  
 Wier, Stuart A., assignor to Tridex Corporation, Dallas, Tex. Water-softening device. 1,725,236; Aug. 20.  
 Wierth, Frederick O. (See Bauer, W. J., Wierth, and Meadoff.)  
 Wierth, Frederick O., Brooklyn, assignor to Queen Automatic Phonograph Co., Inc., New York, N. Y. Phonograph attachment. 1,725,237; Aug. 20.  
 Wiese, Floyd M., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillation generator. 1,719,495; July 2.  
 Wiese, Herman, Monterey Park, Calif. Pen pencil. 1,710,130; Apr. 23.  
 Wiese, Anna, née Wabnitz, administratrix. (See Kucharski, H., and Wiese.)  
 Wiese, Max. (See Kucharski, H., and Wiese.)  
 Wies, Harry C., assignor to Humble Oil & Refining Company, Houston, Tex. Loading tank cars and the like. 1,735,484; Nov. 12.  
 Wiethorn, Fred H., assignor to The Perkins-Campbell Company, Cincinnati, Ohio. Buckle. 1,717,824; June 18.  
 Wietzel, Gustav. (See Mittasch, A., and Wietzel.)  
 Wietzel, Rudolf, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Manufacture of esters. 1,732,392; Oct. 22.  
 Wietzel, Rudolf, and F. Kremp, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of formates. 1,698,573; Jan. 8.  
 Wietzel, Rudolf, and L. Schlecht, Ludwigshafen-on-the-Rhine, and O. Köhler, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Concentration and distillation of solutions of hydrogen peroxide. 1,738,625; Dec. 10.  
 Wigand, Robert C., Tompkinsville, N. Y. Mechanical index and toy. 1,700,461; Jan. 29.  
 Wiggin, John D., Montclair, and M. M. Remmes, Belleville, assignors to H. B. Wiggin's Sons Company, Bloomfield, N. J. Plaster and process of controlling the setting and expansion of setting, an accelerator and expansion controller therefor, and process of making such controllers. 1,732,737; Oct. 22.  
 Wiggins, Earl B. (See Erwin, Shannon A., assignor.)  
 Wiggin's, H. B., Sons Company. (See Wiggin, J. D., and Remmes, assignors.)  
 Wiggins, John H., Bartlesville, Okla. Building roofs for liquid-storage tanks and gas holders. 1,731,283; Oct. 15.  
 Wigginton, George P., Kalamazoo, Mich., assignor to Office Equipment Patents Corporation, New York, N. Y. Card or sheet holder. 1,697,296; Jan. 1.  
 Wigginton, George P., Kalamazoo, Mich., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Prong binder. 1,701,090; Feb. 5.  
 Wigginton, George P., Kalamazoo, Mich., assignor to Office Equipment Patents Corporation, New York, N. Y. Sheet or card holder. 1,715,731; June 4.  
 Wigginton, George P., Kalamazoo, Mich., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index apparatus. 1,719,412; July 2.  
 Wigginton, George P., Kalamazoo, Mich., assignor to Office Equipment Patents Corporation, New York, N. Y. Sheet or card holder. 1,722,548; July 30.  
 Wigglesworth, Harry H. (See Allsop, T., and Wigglesworth.)



- Wigglesworth, Victor H., Belmont, Mass. Tie for binding spaced walls together. 1,699,554; Jan. 22.
- Wight, Sedgwick N., assignor to General Railway Signal Company, Rochester, N. Y. Train-dispatching system for railroads. 1,713,496; May 14.
- Wight, Walter C., Dallas, Tex. Ice carrier. 1,735,098; Nov. 12.
- Wightman, Gordon E., Upper Montclair, N. J., assignor to Bakelite Corporation, New York, N. Y. Making resin-impregnated sheets. 1,703,414; Feb. 26.
- Wightman, Merle J., West New Brighton, assignor to Domestic Stoker Company, New York, N. Y. Mechanical stoker. 1,703,130; Feb. 26.
- Wightman, Rolan J., Little Falls, N. Y., assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Centrifugal testing machine. 1,713,579; May 21.
- Wightman, Thomas H., assignor to Alfred Vester Sons, Inc., Providence, R. I. Buckle. Des. 79,863; Nov. 5.
- Wightman, Thomas H., assignor to Alfred Vester Sons, Inc., Providence, R. I. Buckle. Des. 79,939; Nov. 19.
- Wightman, Thomas H., assignor to Alfred Vester Sons, Inc., Providence, R. I. Buckle. Des. 80,004; Nov. 26.
- Wightman, Thomas H., assignor to Alfred Vester Sons, Inc., Providence, R. I. Buckle. Des. 80,065; Dec. 3.
- Wightman, Thomas H., assignor to Alfred Vester Sons, Inc., Providence, R. I. Buckle or similar article. Des. 80,155; Dec. 17.
- Wigle, Wilson B., Los Angeles, Calif. Hydraulic rotary underreamer. 1,738,860; Dec. 10.
- Wiglenda, Ernst, Spandau, assignor to the firm Rohrbach Metall-Flugzeugbau G. m. b. H., Berlin, Germany. Device for cutting out plated work pieces. 1,723,106; Aug. 6.
- Wigley, Chester G., Atlantic City, N. J., assignor of one-half to C. Potts, New York, N. Y. Disposal of sewage or other waste organic matter. 1,730,489; Oct. 8.
- Wignall, Harry. (See Saunders, K. H., and Wignall.)
- Wihebrink, Harry B., Anderson, Ind. Combined crib and swing. 1,706,762; Mar. 26.
- Wihlfahrt, Julius E., New York, N. Y. Mixing dough. 1,725,036; Aug. 20.
- Wig, Gustav A., assignor to R. Marmet, Omaha, Nebr., and himself. Furnace. 1,708,289; Apr. 9.
- Wikander, Andrew J., Brooklyn, N. Y. Automatic feed for portable drills. 1,705,384; Mar. 12.
- Wike, Ernest R., Detroit, Mich. Spark-plug-testing device. 1,720,983; July 16.
- Wiken, Christy A. (See Mansfield, J. H., and Wiken.)
- Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,711,072; Apr. 30.
- Wikle, George F., Milwaukee, Wis., assignor to Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,711,073; Apr. 30.
- Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,711,074; Apr. 30.
- Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,714,832; May 28.
- Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Fabric spreader for tire-building machines. 1,727,423; Sept. 10.
- Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Pneumatic-tire casing. 1,734,241; Nov. 5.
- Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,734,242; Nov. 5.
- Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,740,635; Dec. 24.
- Wikschtröm, Jakob, Dusseldorf, Germany. Machine for the manufacture of nails from wire. 1,739,745; Dec. 17.
- Wikstrom, Adolf F., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Reversible-point excavating tooth. 1,718,268; June 25.
- Wikstrom, Alfred, Albuquerque, N. Mex. Guide for wood-working tools. 1,700,189; Jan. 29.
- Wikstrom, Frank G., assignor to Hadwik Mfg. Co., Inc., Brooklyn, N. Y. Bung sput and method of attaching the same to container walls. 1,722,256; July 23.
- Wilbanks, Emanuel, Stamford Conn. Rumble-seat top. 1,730,258; Oct. 1.
- Wilber, Edward B., Schenectady, N. Y. Cigar lighter. 1,720,534; July 9.
- Wilber, Wallace E. (See Ellis, F. T., and Wilber.)
- Wilberz, Johannes, Hilden, Germany. Feed-crew mechanism for lathes. 1,706,763; Mar. 26.
- Wilbur, Frank La V., Binghamton, N. Y. Skiving machine. 1,727,683; Sept. 10.
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,733,568; Oct. 29.
- Wilburn, Herbert, Otway, Ohio. Gate latch. 1,711,370; Apr. 30.
- Wilcke, Otto C. F., assignor to The Dayton Manufacturing Company, Dayton, Ohio. Globe holder for illuminating fixtures. 1,710,281; Apr. 23.
- Wilcke, Paul F. C., Seattle, Wash. Tray loader. 1,711,820; May 7.
- Wilckens, Ernst, Berlin, Germany. 1,709,890; Apr. 23.
- Wilckens, Ernst, Berlin, Germany. Signal buoy. 1,711,865; May 7.
- Wilckens, Ernst, Berlin, Germany. Sound-transmitting apparatus. 1,737,346; Nov. 26.
- Wilckens, Ernst, assignor to Signal Gesellschaft mit beschränkter Haftung, Kiel, Germany. Train-control apparatus. 1,698,864; Jan. 15.
- Wilcolator Company, The. (See Fonseca, Edward L., assignor.)
- Wilcox, Albert C., Bridgeport, Ohio. Aircraft. 1,722,651; July 30.
- Wilcox, Crittenden and Company. (See Mowry, Edward S., assignor.)
- Wilcox, Fred L., Tulsa, Okla. Tank. 1,736,842; Nov. 26.
- Wilcox, George R., assignor to Goodell-Pratt Company, Greenfield, Mass. Electric drill. Des. 80,156; Dec. 17.
- Wilcox, Hallie M., Geneva, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Bow for archery. 1,724,387; Aug. 13.
- Wilcox, Joseph S., assignor to The Wilcox Novelty Company, Athol, Mass. Toilet brush. 1,730,703; Oct. 8.
- Wilcox, Katharine R., executrix. (See Wilcox, Philip W.)
- Wilcox, Le Roy, Detroit, Mich., assignor to Cope-Swift Company, Inc. Oil burner. 1,736,990; Nov. 26.
- Wilcox, Lewis T. (See Homan, William C., assignor.)
- Wilcox, Lewis T., Peekskill, N. Y. Stove. 1,700,755; Feb. 5.
- Wilcox, Lewis T., Peekskill, N. Y. Stove. 1,718,186; June 18.
- Wilcox, Lewis T., Peekskill, N. Y. Stove. 1,726,687; Sept. 3.
- Wilcox, Lewis T., Peekskill, N. Y. Water heater. 1,741,175; Dec. 31.
- Wilcox, Lewis T., assignor to Wilcox Patents Corporation, Peekskill, N. Y. Liquid-fuel burner. 1,717,484; June 18.
- Wilcox, Lewis T., assignor to Wilcox Patents Corporation, Peekskill, N. Y. Water heater. 1,726,686; Sept. 3.
- Wilcox, Lewis T., assignor to Wilcox Patents Corporation, Peekskill, N. Y. Liquid-fuel burner. 1,733,174; Oct. 29.
- Wilcox, Norman T., Keokuk, Iowa. Refrigerator. 1,720,310; July 9.
- Wilcox Novelty Company, The. (See Wilcox, Joseph S., assignor.)
- Wilcox Patents Corporation. (See Wilcox, Lewis T., assignor.)
- Wilcox, Philip W., deceased, Atlanta, Ga.; K. R. Wilcox, executrix. Apparatus for applying grease to baking pans. 1,717,080; June 11.
- Wilcox-Rich Corporation. (See Daisley, Robert H., assignor.)
- Wilcox-Rich Corporation. (See Hoern, Joseph H., assignor.)
- Wilcox-Rich Corporation. (See Rich, George R., assignor.)
- Wilcox-Rich Corporation. (See Schall, Allen B., assignor.)
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Clearance mechanism for misaligned articles. 1,734,319; Nov. 5.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Punch-holder mechanism. 1,737,443; Nov. 26.
- Wilcox, William D., Idaho Falls, Idaho. Making mixed water gas and oil gas. 1,716,676; June 11.
- Wilcox, William M., Elberton, Ga. Spark-plug terminal. 1,707,292; Apr. 2.
- Wild, Charles, Eureka, Calif. Digging mechanism for wells and the like. 1,730,704; Oct. 8.
- Wild, Charles, Eureka, Calif. Core breaker and hoister. 1,730,705; Oct. 8.
- Wild, Charles H., Baltimore, Md., assignor to Burt Machine Company, Incorporated. Can-feeding apparatus. 1,713,684; May 21.
- Wild, Friedrich, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Container for electrical apparatus. 1,712,538; May 14.
- Wild, Leonard, and F. Quinn, Bolton, England. Machine for opening and cleaning cotton and the like. 1,705,433; Mar. 12.
- Wild, Rudolf L. R., assignor to Union Asbestos & Rubber Co., Chicago, Ill. Friction-resistive material for brakes, clutches, or the like. 1,741,896; Dec. 31.
- Wild, Wilhelm, and C. Beck, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Producing alkali-metal nitrate. 1,699,643; Jan. 22.
- Wild, Wilhelm, and C. Beck, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Production of alkali-metal nitrate. 1,699,644; Jan. 22.
- Wildbore, William H., Flint, Mich. V block and angle plate. 1,705,629; Mar. 19.
- Wilde, Louis J., and B. K. Gillespie, Los Angeles, Calif. Apparatus for use in cleaning and polishing automobiles. 1,713,014; May 14.
- Wilde, Samuel A., assignor to Glenwood Range Company, Taunton, Mass. Gas range. 1,736,473; Nov. 19.
- Wilde, Samuel A., assignor to Glenwood Range Company, Taunton, Mass. Oven door. 1,737,134; Nov. 26.
- Wilde, W. B. Co. (See Aldrich, Loyd L., assignor.)
- Wildeboer, Marinus, Eindhoven, Netherlands, assignor to General Electric Company. Method of and machine for sealing mounts into bulbs. 1,723,107; Aug. 6.
- Wilder, Edward B., St. Louis, Mo. Kite. 1,724,539; Aug. 13.



- Wilder, George W., Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 1,736,685; Nov. 19.
- Wilder, Harold K., assignor to Kellogg Company, Battle Creek, Mich. Continuous mixing machine. 1,741,176; Dec. 31.
- Wilder, Herbert P. (See Frank, O. E., and Wilder.)
- Wilder, Laurence R., New York, N. Y., assignor to Scintilla Magneto Company, Inc., Sidney, N. Y. Ignition device. 1,727,848; Sept. 10.
- Wilderman, Lewis C., St. Louis, Mo. Cleaning gear cases and their contents. 1,716,283; June 4.
- Wildermuth, Jesse W., Lancaster, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass cooler. 1,707,242; Apr. 2.
- Willey, Edward M., London, England. Electric comb for the hair. 1,724,984; Aug. 20.
- Willey, Ira F., assignor of forty-five one-hundredths to J. M. Ross Chicago, Ill. Rotary internal-combustion engine. 1,701,648; Feb. 12.
- Wildhaber, Ernest, Rochester, N. Y. Record for reproducing sound. 1,707,243; Apr. 2.
- Wildhaber, Ernest, Rochester, N. Y. Sender for picture transmission and method of sending pictures and the like. 1,714,705; May 28.
- Wildhaber, Ernest, Brooklyn, N. Y. Differential gear. 1,730,183; Oct. 1.
- Wildhaber, Ernest, Brooklyn, N. Y. Differential gear. 1,730,184; Oct. 1.
- Wildhaber, Ernest, Brooklyn, N. Y. Axle. 1,739,196; Dec. 10.
- Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Cutting bevel gears. 1,696,930; Jan. 1.
- Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Producing hypoid gears. 1,705,886; Mar. 19.
- Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Generating hypoid gears. 1,705,887; Mar. 19.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Machine for producing curved tooth gears. 1,724,241; Aug. 13.
- Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Forming tapered gears. 1,725,037; Aug. 20.
- Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,726,051; Aug. 27.
- Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Producing hypoid gears. 1,726,091; Aug. 27.
- Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Producing bevel gears. 1,727,739; Sept. 10.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing bevel gears. 1,727,740; Sept. 10.
- Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing bevel gears. 1,733,326; Oct. 29.
- Wilding, Sidney W., assignor to The Amalgamated Dental Company Limited, London, England. Laminated material for use in artificial dentures. 1,718,019; June 18.
- Wildish, Laura W., Los Angeles, Calif. Doll. Des. 79,116; July 30.
- Wildish, Laura W., Los Angeles, Calif. Doll. Des. 79,117; July 30.
- Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
- Wildt, Edwin, and H. H. Holmes, Leicester, England. Knitting machine. 1,699,320; Jan. 15.
- Wildt, Edwin, and H. H. Holmes, Leicester, England. Knitting machine. 1,699,321; Jan. 15.
- Wildt, Steffen, Horsens, Denmark. Track. 1,731,155; Oct. 8.
- Wilenchik, Israel W., Philadelphia, Pa. Separating copper from nickel. 1,703,329; Feb. 26.
- Wilensky, Ida. (See Rubin, Samuel L., assignor.)
- Wiles, Hoyt C., Franklinville, assignor of one-half to P. Y. Quinn, Collingswood, N. J. Stop and counting means for automatic machines. 1,732,706; Oct. 22.
- Wiles, James A., Hamilton, Ohio. Storage-battery-terminal puller. 1,707,379; Apr. 2.
- Wiles, Robert S. (See Kuhs, G. T., and Wiles.)
- Wiley, Esmond F., San Francisco, assignor to Universal Window Company, Oakland, Calif. Latch for awning-type windows. 1,739,998; Dec. 17.
- Wiley, James M., Memphis, Tenn. Cultivator. 1,700,525; Jan. 29.
- Wiley, Pearl R., Los Angeles, Calif. Parking dolly. 1,709,421; Apr. 16.
- Wiley, Samuel, Jr., Metuchen, N. J. Light for aircraft. 1,709,644; Apr. 16.
- Wiley, Samuel W., Baltimore, Md. Laboratory mill. 1,706,643; Mar. 26.
- Wiley, Schuyler C., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding coils. 1,722,362; July 30.
- Wilfert, Robert G., Forestville, Ohio. Automobile light. 1,706,685; Mar. 26.
- Wilford, Edward B., Merion, Pa. Aircraft. 1,736,299; Nov. 19.
- Wilford, Edward B., Merion, assignor of one-half to J. S. Wilford, Philadelphia, Pa. Airplane. 1,736,300; Nov. 19.
- Wilford, John S. (See Wilford, Edward B., assignor.)
- Wilhelm, Edwin J., Stratford, Ontario, Canada. Locomotive-cab ventilator. 1,708,558; Apr. 9.
- Wilhelm, Fritz, Berlin-Halensee, and K. J. Müller, Berlin-Grünwald, Germany; said Wilhelm assignor to said Müller. Loud-speaking sound producer for telephones. 1,710,463; Apr. 23.
- Wilhelm, Harold F., et al. (See Bégin, Lucien, assignor.)
- Wilhelm, Harold F., East Orange, N. J., assignor to V. E. Minich, Scarsdale, N. Y. Worm-drive belt-tightening device. 1,739,053; Dec. 10.
- Wilhelm, Henry, Brooklyn, N. Y. Push-button and card-holder box. 1,700,577; Jan. 29.
- Wilhelm, Herman, New York, N. Y. Slipper body. Des. 77,448; Jan. 8.
- Wilhelm, John H., Rockaway Beach, N. Y. Condenser. 1,717,429; June 18.
- Wilhelm, John H., Rockaway Beach, Long Island, N. Y., assignor to Markon Manufacturing Co. Inc., New York, N. Y. Fitting eye sets in doll heads. 1,739,197; Dec. 10.
- Wilhelm, John H., Rockaway Beach, Long Island, assignor to Markon Manufacturing Co. Inc., New York, N. Y. Eye-frazing machine. 1,739,198; Dec. 10.
- Wilhelm, John H., Long Island, assignor to Markon Mfg. Inc., New York, N. Y. Tool for use in attaching eye sets in doll heads. 1,736,562; Nov. 19.
- Wilhelm, John H., Long Island, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Artificial eyes. 1,740,675; Dec. 24.
- Wilhelm, Karl F., Stralsund, Germany. Extracting fatty acids, resins, bitter substances, and mucilage from oils and fats. 1,729,809; Oct. 1.
- Wilhelm, Ottmar, assignor to the Firm Maschinenfabrik Augsburg-Nürnberg, Aktiengesellschaft, Augsburg, Germany. Intaglio-printing machine for printing sheets on both sides. 1,703,699; Feb. 26.
- Wilhelm, Ottmar, assignor to the firm Maschinenfabrik Augsburg-Nürnberg, Aktiengesellschaft, Augsburg, Germany. Multicolor intaglio-printing machine. 1,705,081; Mar. 12.
- Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Water-tube connection. 1,704,493; Mar. 5.
- Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front head for rock drills. 1,712,239; May 7.
- Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,713,859; May 21.
- Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Water-tube connection. 1,719,155; July 2.
- Wilhem, Pierre F., Pittsburgh, Pa. Bowling pin. 1,702,556; Feb. 19.
- Wilhite, Samuel C., Los Angeles, Calif. Tamale inn. Des. 78,424; Apr. 30.
- Wilhelm, Christian, Philadelphia, Pa. Remote-valve-operating mechanism. 1,709,104; Apr. 16.
- Wilhelm, Christian, Philadelphia, Pa. Temperature control apparatus. 1,739,882; Dec. 17.
- Wilke, Charles R. (See Berg, Theophil H., assignor.)
- Wilke, Karl. (See Kränzlein, G., Vollmann, and Wilke.)
- Wilke, Karl, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Preparing  $\beta$ -aminoanthraquinone-carboxylic acids. 1,698,900; Jan. 15.
- Wilkening Manufacturing Co. (See Wuerfel, William, assignor.)
- Wilkins, Edward T. (See Bollheimer, R., Wilkens, and Harris.)
- Wilkes, Frederick C. D., and F. K. Flynn, assignors to Luce Cane Harvester Corporation, New York, N. Y. Sugar-cane harvester. 1,722,780; July 30.
- Wilkes, Walter G., Biloxi, Miss. Feeder for type-casting machines. 1,735,069; Nov. 12.
- Wilkes, William D., New York, N. Y. Knockdown container. 1,707,833; Apr. 2.
- Wilkie, Harry V., and A. F. Bachers, Detroit, Mich. Insect trap. 1,718,805; June 25.
- Wilkin, George W., Grangeville, Idaho. Flying machine. 1,720,939; July 16.
- Wilking, Alphonse P. M., Belmont, Mass. Pump. 1,714,706; May 28.
- Wilkins, Charles. (See Bosko, T., and Wilkins.)
- Wilkins, Ernest B., Helena, Ark. Display case or tray. 1,722,405; July 30.
- Wilkins, Frank J., Cincinnati, Ohio. Shadow-letter production for educational and commercial purposes. 1,712,371; May 7.
- Wilkins, James A., Norfolk, Va. Stomach tube. 1,736,182; Nov. 19.
- Wilkins, John G. (See Dawson, S. V., Wilkins, and Dawson.)
- Wilkins, Willis A., El Paso, Tex. Headrest holder. 1,698,615; Jan. 8.
- Wilkinson, Arthur W., and C. W. Riegel, assignors to Ferling Products Company, Easton, Pa. Container for corrosive liquids such as hydrofluoric acid. 1,701,937; Feb. 12.
- Wilkinson, Clarence M., Akron, Ohio. Waste-disposal chute. 1,739,534; Dec. 17.
- Wilkinson, Elmer L., St. Louis, Mo. Power braking device. 1,712,240; May 7.
- Wilkinson, Gordon O., Ardmore, Pa. Adjustable supporting means. 1,731,804; Oct. 15.
- Wilkowski, Carl L., Watertown, Wis. Klinker tongs. 1,730,706; Oct. 8.



- Wilkowski, Carl L., Watertown, Wis. Portable roasting machine. 1,733,766; Oct. 29.
- Will & Baumer Candle Company. (See Moulton, Lloyd W., assignor.)
- Will, Walter O., and E. Carlson, assignors to Stewart Manufacturing Corporation, Chicago, Ill. Die-casting machine. 1,713,312; May 14.
- Will, Walter O., and E. Carlson, assignors to Stewart Die Casting Corporation, Chicago, Ill. Die-casting machine. 1,724,331; Aug. 13.
- Will, Walter O., and E. Carlson, assignors to Stewart Die Casting Corporation, Chicago, Ill. Hydraulically-operated die-casting machine. 1,724,332; Aug. 13.
- Will, Walter O., and E. Carlson, assignors to Stewart Manufacturing Corporation, Chicago, Ill. Safety guard for power presses. 1,741,177; Dec. 31.
- Willamette-Ersted Company. (See Gorbutt, Sidney B., assignor.)
- Willamette Iron and Steel Works. (See Gorbutt, Sidney B., assignor.)
- Willamette Iron and Steel Works. (See Grab, Gustav A., assignor.)
- Willamette Iron and Steel Works. (See Wickes, Powers A., assignor.)
- Willans, Peter W., Northamptonshire, England, assignor to Radio Corporation of America. Radio receiving apparatus. 1,702,067; Feb. 12.
- Willans, Peter W., Towcester, England, assignor to Radio Corporation of America. Thermionic valve circuits. 1,712,060; May 7.
- Willans, Peter W., Towcester, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Wireless telephone receiving system. 1,735,150; Nov. 12.
- Willard, Alfred R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Coating material for metal molds. 1,720,356; July 9.
- Willard, Alfred R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Automatic casting machine. 1,720,357; July 9.
- Willard, Ben, New Orleans, La., assignor to General Electric Company. Branding device. 1,706,200; Mar. 19.
- Willard, Cyrus F. (See Hall, W. J., and Willard.)
- Willard, Cyrus F., San Diego, Calif. Vulcanized fibrous rubber composition. 1,702,678; Feb. 19.
- Willard, Donald E., Danville, Ill. Driving glasses. 1,706,429; Mar. 26.
- Willard, Ernest G., Wakefield, Mass. Combination shirt band and soft-shirt-collared protector. 1,724,334; Aug. 13.
- Willard Storage Battery Company. (See Carpenter, Campbell C., assignor.)
- Willard Storage Battery Company. (See Dunzweiler, Carl J., assignor.)
- Willard Storage Battery Company. (See Lormor, Henry W., assignor.)
- Willard Storage Battery Company. (See Lundeen, Ernest F., assignor.)
- Willard Storage Battery Company. (See Willard, Alfred R., assignor.)
- Willard Storage Battery Company. (See Willard, Theodore A., assignor.)
- Willard, Theodore A., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 1,717,863; June 18.
- Willard, Waldo W. (See Hewlett, E. M., and Willard.)
- Willat, Arnold F., San Rafael, Calif. Coiling device. 1,708,165; Apr. 9.
- Willauer, William R., Spartanburg, S. C. Apparatus for dispensing ice cream. 1,739,339; Dec. 10.
- Willauer, William R., Spartanburg, S. C. Apparatus for dispensing ice cream. 1,739,431; Dec. 10.
- Willber, Charles and T., Manchester England. Hair-comb-cleaning device. 1,711,627; May 7.
- Willber, Thomas. (See Willber, Charles and T.)
- Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Checker arrangement. 1,706,270; Mar. 19.
- Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Burner. 1,711,256; Apr. 30.
- Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Gas-burner installation. 1,713,313; May 14.
- Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Burner. 1,740,636; Dec. 24.
- Willcox, Frederick H., and J. C. Hayes, Jr., assignors to Freyn Engineering Company, Chicago, Ill. Heat interchanger. 1,707,777; Apr. 2.
- Willcox & Gibbs Sewing Machine Company. (See Colt, Charles R., assignor.)
- Willcox & Gibbs Sewing Machine Company. (See Davidson, Frank W., assignor.)
- Willcox & Gibbs Sewing Machine Company. (See Merritt, Arthur A., assignor.)
- Willcox & Gibbs Sewing Machine Co. (See Merritt, A. A., and Getler, assignors.)
- Willcox & Gibbs Sewing Machine Co. (See Summers, Gilbert L., assignor.)
- Willcox, Jule S., Savannah, Ga., and W. C. Simpson, Columbia, S. C. Nut wrench. 1,724,540; Aug. 13.
- Wille, Henry V., Philadelphia, Pa. Welding cast iron and filler rod therefor. 1,708,815; Apr. 9.
- Willeke, Joseph G., Seattle, Wash. Game apparatus. 1,731,959; Oct. 15.
- Willenborg, John J., Pawnee, Ill. Refrigerator counter. 1,710,131; Apr. 23.
- Willene, Martin E. (See Coranson, A. E., and Willene.)
- Willens, George, Chicago, Ill. Stereopticon clock. 1,711,296; Apr. 30.
- Willet, Nicholas M. (See Morgana, C., Miller, and Willet.)
- Willet, Nicholas M. (See Wren, W. J., and Willet.)
- Willets, William C., Los Angeles, Calif. Water cooler. 1,703,436; Feb. 26.
- Willett, Charles G. (See Homan, Rex, assignor.)
- Willett, Frank J., Camino, Calif. Band-saw oiler. 1,700,275; Jan. 29.
- Willett, George F., Dayton, Ohio. Folding table. 1,698,420; Jan. 8.
- Willets, William P., Roslyn, N. Y. Ice can. 1,711,214; Apr. 30.
- Willey, C. L., Company. (See Kessler, Clarence A., assignor.)
- Willey, Claude S., Detroit, Mich. Sign. 1,724,243; Aug. 13.
- Willey, Harry D., Oakland, Calif. Retaining appliance for artificial dentures. 1,738,626; Dec. 10.
- Willing, Clarence J., Dubuque, Iowa. Tubing bender. 1,712,682; May 14.
- Willgoos, Andrew V. D., West Hartford, assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Valve-timing mechanism. 1,704,815; Mar. 12.
- Willgoos, Andrew V. D., West Hartford, assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Internal-combustion engine. 1,708,458; Apr. 9.
- Willgoos, Andrew V. D., West Hartford, assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Internal-combustion engine. 1,712,539; May 14.
- Willgoos, Andrew V. D., West Hartford, assignor to The Pratt & Whitney Aircraft Company, Hartford, Conn. Constant-clearance valve mechanism. 1,729,849; Oct. 1.
- Willgoos, Andrew V. D., assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Spark-plug cable terminal. 1,741,667; Dec. 31.
- Willhagen, Herman J., Detroit, Mich. Variable-arc fin condenser. 1,715,880; June 4.
- Willhauck, Augustus D., Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Abrading machine. 1,698,807; Jan. 15.
- Willhauck, Augustus D., Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for performing finishing operations upon boot or shoe parts. 1,719,156; July 2.
- Willhauck, Augustus D., Cambridge, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon soles. 1,737,745; Dec. 3.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 77,449; Jan. 8.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,243; Apr. 9.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,244; Apr. 9.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,321; Apr. 16.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,322; Apr. 16.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,548; May 14.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,549; May 14.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,550; May 14.
- Willheim, William, New York, N. Y. Textile fabric or similar article. Des. 78,551; May 14.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,450; Jan. 8.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,451; Jan. 8.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,516; Jan. 15.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,575; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,576; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,577; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,578; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,579; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,580; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,581; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,582; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,583; Jan. 22.



- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,584; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,585; Jan. 22.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,719; Feb. 12.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,720; Feb. 12.
- Willheim, William, New York, N. Y., assignor to Frank & Cohen Silk Corporation. Textile fabric or similar article. Des. 77,802; Feb. 19.
- Williams, Alfred, Albany, N. Y. Hydrating crops in semi-arid zones. 1,715,970; June 4.
- Williams, Andrew J., H. Bruer, Havre, and J. Spence, Cut Bank, Mont. Weed cutter and ballast shaper. 1,705,434; Mar. 12.
- Williams, Annie M., committee of the person and estate. (See Williams, Frank H.)
- Williams, Annie M., committee on estate. (See Williams, Frank H.)
- Williams, Archibald, jr., assignor to Hood Rubber Company, Watertown, Mass. Apparatus for marking sheet material. 1,699,337; Jan. 15.
- Williams, Arthur S., Ithaca, N. Y. Combustion generator. 1,734,933; Nov. 5.
- Williams, Audley O. (See Mathey, E. D., and Williams.)
- Williams, August F., South Euclid, assignor to The American Multigraph Company, Cleveland, Ohio. Paper-ejecting mechanism for printing machines. 1,720,984; July 16.
- Williams, Austin D., F. B. Gillett, and R. P. Clark, Sacramento, Calif. Support for pipes, rods, and the like. 1,735,192; Nov. 12.
- Williams, Bill C. (See Privott, J. H., and Williams.)
- Williams, Calvin C., Philadelphia, Pa. Valve-actuating mechanism. 1,707,244; Apr. 2.
- Williams, Calvin C., Philadelphia, Pa. Valve-actuating mechanism. 1,734,842; Nov. 5.
- Williams, Chandos C., Detroit, Mich. Pocket cash register. 1,730,597; Oct. 8.
- Williams, Charles H., Carnation, Wash. Jump trap. 1,733,040; Oct. 22.
- Williams, Charles B., Detroit, Mich. Cuspidor for vehicles. 1,698,978; Jan. 15.
- Williams, Chester I. (See Hawley, John B., jr., assignor.)
- Williams, Chester I., assignor of one-half to Goodspeed Investment Company, Grand Rapids, Mich. Securing means for concrete forms or the like. 1,716,872; June 11.
- Williams, Clarence, Detroit, Mich., and E. G. Appleton, assignors to Roach-Appleton Manufacturing Company, Chicago, Ill. Switch. 1,699,645; Jan. 22.
- Williams, Clarence E., Kansas City, Mo. Pneumatic jack. 1,719,740; July 2.
- Williams, Clarence H., Altoona, Iowa. Rail-splicing device. 1,699,216; Jan. 15.
- Williams, Clifford J., assignor to Briggs Manufacturing Company, Detroit, Mich. Door latch. 1,713,806; May 21.
- Williams, Clinton R., New York, N. Y. Toy and the like. 1,740,884; Dec. 24.
- Williams Company, The. (See Boehler, Raymond F., jr., assignor.)
- Williams Company, The. (See Robbins, William H., assignor.)
- Williams Company, The. (See Robbins, W. H., and Converse, assignors.)
- Williams Company, The. (See Robbins, W. H., and Kimberley, assignors.)
- Williams Company, The. (See Robbins, W. H., and Lohman, assignors.)
- Williams, David, Massillon, and M. A. Grossmann, Canton, Ohio, assignors to Midwest Metallurgical Corporation, New York, N. Y. Making rimming steel. 1,727,088; Sept. 3.
- Williams, David C., Medfield, assignor to E. P. Motley, Beverly, Mass. Cleaning device. 1,716,018; June 4.
- Williams, David L. H. (See Ordidge, F. H., and Williams.)
- Williams, David T., New York, N. Y. Locomotive-stoking mechanism. 1,714,116; May 21.
- Williams, David T., Paterson, N. J. Locomotive equalizer. 1,718,326; June 25.
- Williams, David T., Paterson, N. J. Fractionating condenser. 1,723,637; Aug. 6.
- Williams, Davis S., Los Angeles, Calif. Game. 1,712,781; May 14.
- Williams, Dayton L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Bead-turning machine. 1,717,134; June 11.
- Williams, Dennis F., Kansas City, Mo. Feather-treating machine. 1,724,541; Aug. 13.
- Williams, Earl W., Bennington, Vt. Cushioning and shock-absorbing device. 1,712,014; May 7.
- Williams, Edgar R., Modesto, Calif. Fruit-picker's bag. 1,738,470; Dec. 3.
- Williams, Edmund T. (See Converse, John E., assignor.)
- Williams, Edward, Pelham, assignor to Wilson-Macullen Company, Inc., New York, N. Y. Selective pyrometer reading switch. 1,735,485; Nov. 12.
- Williams, Edward H., Crafton, Pa., assignor to The National Supply Company, Toledo, Ohio. Packing sleeve for overshoes. 1,740,849; Dec. 24.
- Williams, Edward H., Crafton, and J. C. Bush, Woodlawn, Pa., assignors to The National Supply Company, Toledo, Ohio. Water-cooled brake rim. 1,697,825; Jan. 1.
- Williams, Edward T., Brooklyn, N. Y. Compressor. 1,722,616; July 30.
- Williams, Edward T., Brooklyn, N. Y. Thermostatic-circuit controller. 1,736,027; Nov. 19.
- Williams, Edward T., Brooklyn, assignor to Servel, Inc., New York, N. Y. Refrigeration. 1,726,093; Aug. 27.
- Williams, Eli P., McPherson, Kans. Folding-box blank. 1,713,154; May 14.
- Williams, Elmer R., Springfield, Mo. Steam or hot-water generator for use in heating systems. 1,713,729; May 21.
- Williams, Elmo H., Pearl Harbor, Hawaii. Streamline sail. 1,700,660; Jan. 29.
- Williams, Ernest, New York, assignor to Metropolitan Device Corporation, Brooklyn, N. Y. Cable-identification tag. 1,719,036; July 2.
- Williams, Ernest A., Elyria, Ohio. Rotary cutter. 1,725,238; Aug. 20.
- Williams, Francis N., Taunton, Mass. Lining for furnaces or stoves. 1,699,728; Jan. 22.
- Williams, Frank A., assignor of one-half to H. A. Newman, Houston, and one-half to H. F. Newman, Fort Bend County, Tex. Finger board. 1,708,004; Apr. 9.
- Williams, Frank C., Philadelphia, Pa. Train-stopping and speed-controlling mechanism. 1,734,509; Nov. 5.
- Williams, Frank D., assignor, by mesne assignments, to Patents Process Incorporated, Los Angeles, Calif. Motion-picture composition. Re17,330; June 18.
- Williams, Frank H., incompetent, Buffalo, N. Y.; A. M. Williams, committee on estate, assignor to Spiral-Rolled Products Co., Inc., New York, N. Y. Drive spike. 1,716,019; June 4.
- Williams, Frank H., Buffalo, N. Y.; A. M. Williams, committee of the person and estate of said Frank H. Williams, assignor to the Spiral-Rolled Products Co., Inc., New York, N. Y. Spike. 1,725,118; Aug. 20.
- Williams, Frank M., Watertown, N. Y. Cutting or trimming device. 1,735,520; Nov. 12.
- Williams, French B. (See Pressley, C. R., and Williams.)
- Williams, French B., assignor of five-fortieths to A. P. Barker, five-fortieths to J. H. Clark, four-fortieths to F. M. Pangburn, and twenty-fortieths to C. R. Pressley, Fort Worth, Tex. Cotton gin. 1,717,323; June 11.
- Williams, George A. (See Hulva, L. W., and Williams.)
- Williams, George A., Los Angeles, Calif. Water-sprinkling device. 1,731,555; Oct. 15.
- Williams, George A., assignor to Williams Sealing Corporation, Decatur, Ill. Tamperproof seal for caps. 1,710,956; Apr. 30.
- Williams, George B. (See Ernst, H., and Williams.)
- Williams, George B., Cardiff, and W. J. H. Porter, Penylan, Cardiff, Wales, assignors to New Engineering Construction Company, Limited, London, England. Metallic flooring or grating. 1,734,660; Nov. 5.
- Williams, G. H., Company. (See Harrington, Edward L., assignor.)
- Williams, Gordon, Mount Carmel, Conn. Hood fastener for automobiles. 1,735,557; Nov. 12.
- Williams, Grant. (See Beidler, Ford E., assignor.)
- Williams, Harold S. (See Wagner, R. W., Williams, and Wells.)
- Williams, Harrison R., New York, N. Y. Absorbent pad. 1,702,530; Feb. 19.
- Williams, Harrison R., New York, N. Y. Suction box. 1,715,395; June 4.
- Williams, Harrison R., Glens Falls, N. Y. Sanitary toilet cover. 1,730,047; Oct. 1.
- Williams, Harry, Detroit, Mich. Padlock. 1,718,723; June 25.
- Williams, Harry, Elizabeth, N. J., assignor to International Motor Company, New York, N. Y. Transmission mechanism. 1,726,132; Aug. 27.
- Williams, Harry A. (See Hynes, L. P., and Williams.)
- Williams, Harry M., assignor to General Motors Research Corporation, Dayton, Ohio. Mold. 1,712,946; May 14.
- Williams, Harry M., assignor to General Motors Research Corporation, Dayton, Ohio. Producing high-heat-resisting substances. 1,713,580; May 21.
- Williams, Harry M., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Die for permanent moldings. 1,717,643; June 18.
- Williams, Harry M., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Bearing. 1,738,163; Dec. 3.
- Williams, Harry S., assignor to Bankers Supply Company, Houston, Tex. Check-book attachment. 1,727,120; Sept. 3.
- Williams, Harry W. (See Lingham, G. N., and Williams.)
- Williams, Henry W., Red House, Va. Hinged cuff button. 1,718,397; June 25.
- Williams, Horace, St. Peters, South Australia, Australia. Direction indicator. 1,716,873; June 11.
- Williams, Ira, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Method of and apparatus for testing materials. 1,711,866; May 7.
- Williams Iron Works Company. (See Lynch, Charles W., assignor.)



- Williams, Isiah, Gary, Ind. Electric heater. 1,702,583; Feb. 19.
- Williams, James C., Denver, Colo. Lubricant. 1,735,368; Nov. 12.
- Williams, James E., Spring City, Pa. Box toe. 1,703,562; Feb. 26.
- Williams, James H., assignor to Wayne Company, Fort Wayne, Ind. Liquid measuring and dispensing apparatus. 1,731,805; Oct. 15.
- Williams, James H., and L. K. Vogt, assignors to United Piano Corporation, Norwalk, Ohio. Sounding-board press. 1,700,391; Jan. 29.
- Williams, James M., Bartow, Fla. Plow. 1,709,699; Apr. 16.
- Williams, Jerome G., and E. J. Schneider, assignors to The Baldwin Company, Cincinnati, Ohio. Expression-controlling means. 1,729,198; Sept. 24.
- Williams, John A., and E. Le Quornik, Richmond Hill, N. Y., assignors to Hamden Tool & Metal Works, Inc., Hamden, Conn. Electric heater. 1,715,109; May 28.
- Williams, John A., Pitman, N. J., and W. L. Whitman, 2d, Germantown, Pa. Support for concrete reinforcements. 1,725,239; Aug. 20.
- Williams, John and J., Philadelphia, Pa. Piston ring. 1,720,504; July 9.
- Williams, John D., Niles, Ohio. Auxiliary scrap shears. 1,711,915; May 7.
- Williams, John H., Providence, R. I. Tenter clip. 1,736,686; Nov. 19.
- Williams, Joseph A., Jacksonville, Fla. Curtain-rod and shade-roller support. 1,738,091; Dec. 3.
- Williams, Joseph F. (See Matthews, A. W., and Williams.)
- Williams, Judson. (See Williams, John and J.)
- Williams, Judson, Philadelphia, Pa. Piston ring. 1,708,816; Apr. 9.
- Williams, Lee B., Pittsburgh, Pa. Headlight. 1,716,938; June 11.
- Williams, Leo L., Cleveland Heights, Ohio. Molding for automobile bodies and the like. 1,714,478; May 21.
- Williams, Leo L., Cleveland Heights, Ohio. Molding for automobiles and the like. 1,714,479; May 21.
- Williams, Leonard C., West Pittsburg, Pa. Automobile vision attachment. 1,717,536; June 18.
- Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Rocking dump body. 1,734,320; Nov. 5.
- Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Covered dumping body. 1,734,785; Nov. 5.
- Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Latch for tiltable dump bodies. 1,739,746; Dec. 17.
- Williams, Lester, assignor to Marshalltown Heater Company, Marshalltown, Iowa. Furnace grate. 1,701,802; Feb. 12.
- Williams, Lester, assignor to Marshalltown Heater Company, Marshalltown, Iowa. Radiator for hot-air furnaces. 1,720,985; July 16.
- Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, New York, N. Y. Device for transferring knitted fabrics. 1,712,100; May 7.
- Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, New York, N. Y. Transferring knitted fabrics and mechanism for this purpose. 1,715,399; June 4.
- Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, New York, N. Y. Machine for uniting knitted webs. 1,715,400; June 4.
- Williams, Louis N. D., Ogontz, Pa., assignor to Scott & Williams, Incorporated, New York, N. Y. Mechanisms for transferring knitted webs. 1,718,327; June 25.
- Williams, Margaret E. (See Williams, Thomas W., assignor.)
- Williams, Norman H., and H. Mittermeir, Kitchener, Ontario, Canada. Windshield cleaner. 1,725,436; Aug. 20.
- Williams Oil-O-Matic Heating Corporation. (See Celander, Philip A., assignor.)
- Williams Oil-O-Matic Heating Corporation. (See Williams, Walter W., assignor.)
- Williams, Oliver J., Burlingame, Calif. Cage support for crushers. 1,697,297; Jan. 1.
- Williams, Oscar, Kansas City, Mo. Curtain fixture. 1,699,555; Jan. 22.
- Williams, Paul F., Chicago, Ill. Electrical connector. 1,728,911; Sept. 17.
- Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. Series cut-out. 1,696,931; Jan. 1.
- Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. Electrical-circuit-connecting device. 1,717,329; June 11.
- Williams, Paul F., assignor to G. & W. Electric Specialty Co., Chicago, Ill. System of electrical distribution and control means therefor. 1,729,755; Oct. 1.
- Williams, Paul H. (See Pritchett, C. P., and Williams.)
- Williams, Percy Q., assignor to The Owens Bottle Company, Toledo, Ohio. Method of and apparatus for annealing glassware. 1,714,707; May 28.
- Williams, Peter K., Columbus, Ohio. Wash mitten. 1,713,065; May 14.
- Williams, Ralph, Toorak, near Melbourne, Victoria, Australia. Apparatus for centrifugally molding solid articles from plastic material. 1,703,024; Feb. 19.
- Williams, Raymond A., Arlington, Mass. Bowling alley. 1,706,271; Mar. 19.
- Williams, Robert L., Newton, assignor to Submarine Signal Corporation, Boston, Mass. Sound-receiving apparatus. 1,725,038; Aug. 20.
- Williams, Robert R., Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulated cable. 1,705,949; Mar. 19.
- Williams, Robert T., Quincy, assignor to H. M. Sheer Company, Quincy, Ill. Stove. 1,734,843; Nov. 5.
- Williams, Roger, Wilmington, Del., assignor, by mesne assignments, to Electro Metallurgical Company. Production of alloy-surface castings. 1,725,039; Aug. 20.
- Williams, Roger, assignor to Du Pont Ammonia Corporation, Wilmington, Del. Producing hydrogen. 1,736,065; Nov. 19.
- Williams, Roger R. (See Haley, W. T., and Williams.)
- Williams, Rolland G., assignor to Malleable Iron Fittings Company, Branford, Conn. Clamp for supporting electric conductors. 1,725,119; Aug. 20.
- Williams, Rolland G., assignor to Malleable Iron Fittings Company, Branford, Conn. Supporting and bonding messenger cables and conduits for electrical conductors. 1,725,120; Aug. 20.
- Williams, Rolland G., Bridgeport, assignor to Malleable Iron Fittings Company, Branford, Conn. Pole mount. 1,731,645; Oct. 15.
- Williams, Roy H., Evansville, Ind. Contact screw. 1,707,589; Apr. 2.
- Williams, Russell J., and C. A. Wettengel, assignors to Southern Manganese Steel Company, St. Louis, Mo. Shear surface ring for pulverizing machines. 1,733,637; Oct. 29.
- Williams, Ruth G. (See Breeding, Ruth W.)
- Williams, Samuel, Elk City, Okla. Machine for extracting hulls of cotton bolls from seed cotton. 1,726,203; Aug. 27.
- Williams, Samuel A., and T. C. Pond, Waukegan, Ill., assignors, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Machine for making sheet products. 1,724,154; Aug. 13.
- Williams, Samuel B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 1,711,664; May 7.
- Williams, Samuel G., and E. L. Rusk, Windsor, Mo. Feed trough. 1,742,019; Dec. 31.
- Williams, Samuel L., et al. (See Lathrop, Asa, assignor.)
- Williams Sealing Corporation. (See Williams, George A., assignor.)
- Williams, Sebastian C. (See Groves, Ray H., assignor.)
- Williams, Stephen L., assignor to Extruded Metal Products Company, Bridgeport, Ohio. Pickling crate. 1,729,316; Sept. 24.
- Williams, Stephen L., assignor to Extruded Metal Products Company, Bridgeport, Ohio. Pickling apparatus. 1,734,986; Nov. 12.
- Williams, Stephen L., assignor to Extruded Metal Products Company, Bridgeport, Ohio. Pickling apparatus. 1,738,412; Dec. 3.
- Williams, Thomas C., East Bakersfield, Calif. Food cutter. 1,721,937; July 23.
- Williams, Thomas C., Bakersfield, Calif. Food cutter. 1,736,238; Nov. 19.
- Williams, Thomas W., assignor to M. E. Williams, Kaylor, Pa. Portable ladder step. 1,718,885; June 25.
- Williams Tool Corporation. (See Mehl, George M., assignor.)
- Williams, Victor G. (See Delamere R. D., and Williams.)
- Williams, W. Horace. (See Smith, Blanchard D.)
- Williams, Walter W. (See Cooper, Robert N., assignor.)
- Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Boiler for fuel-burning devices. 1,700,104; Jan. 22.
- Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Gas-supply control for oil burners. 1,711,436; Apr. 30.
- Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Atomizing liquid fuels. 1,738,489; Dec. 3.
- Williams, Ward G., Brandon, Wis. Electric switch. 1,702,287; Feb. 19.
- Williams, William A., Ben Wheeler, Tex. Attachment for road machines. 1,710,132; Apr. 23.
- Williams, William E., Chicago, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Demountable-rim wheel. 1,704,524; Mar. 5.
- Williams, William E., Chicago, Ill., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Steel-spoke wheel. 1,711,628; May 7.
- Williams, William E., assignor of one-fourth to J. H. Bowman, Harrisonville, Mo. End gate. 1,707,889; Apr. 2.
- Williams, William E., Wilmette, Ill. Package of boxes of matches. 1,710,393; Apr. 23.
- Williams, William E., Wilmette, Ill. Vending machine for book matches. 1,710,394; Apr. 23.
- Williams, William E., Wilmette, Ill. Machine for vending boxes of matches. 1,710,395; Apr. 23.
- Williams, William E., Wilmette, Ill. Rail anchor for railway rails. 1,721,849; July 23.
- Williams, William E., Wilmette, assignor to Ditto, Incorporated, Chicago, Ill. Duplicating machine on the hectograph principle. 1,717,864; June 18.
- Williams, William E., Wilmette, assignor to Ditto, Incorporated, Chicago, Ill. Hectograph duplicating machine. 1,717,865; June 18.



- Williams, William E., Wilmette, assignor to Ditto Incorporated, Chicago, Ill. Machine for making copies on the hectograph principle. 1,724,242; Aug. 13.
- Williams, William E., Wilmette, assignor to Ditto Incorporated, Chicago, Ill. Duplicating copy machine. 1,738,627; Dec. 10.
- Williams, William E., Wilmette, assignor to Ditto Incorporated, Chicago, Ill. Hectograph duplicating copying machine. 1,738,629; Dec. 10.
- Williams, William E., Palo Alto, Calif. Book match. 1,721,652; July 23.
- Williams, William F., Chicago, Ill. Bumper. 1,704,995; Mar. 12.
- Williams, William G., Flushing, assignor to Waddell & Hardesty, New York, N. Y. Conductor support for lift bridges and the like. 1,729,637; Oct. 1.
- Williams, William G., Elgin, Ill., assignor to W. J. Lorang. Tilttable chiropractic table. 1,735,703; Nov. 12.
- Williams, William H. (See Britton, J. W., and Williams.)
- Williams, William H., and J. W. Britton, assignors to The Dow Chemical Company, Midland, Mich. Making aniline and other arylamines. 1,726,171; Aug. 27.
- Williams, William H., and J. W. Britton, assignors to The Dow Chemical Company, Midland, Mich. Making arylamines. 1,726,172; Aug. 27.
- Williams, William H., and J. W. Britton, assignors to The Dow Chemical Company, Midland, Mich. Making aniline and similar amine compounds. 1,726,173; Aug. 27.
- Williams, William R., assignor to The Davey Tree Expert Co., Kent, Ohio. Percussive tool. 1,731,836; Oct. 15.
- Williamson, Bailey F., assignor to Stone Homes Process, Incorporated, Gainesville, Fla. Building material. 1,716,749; June 11.
- Williamson, Bailey F., and W. H. Beisler, Gainesville, Fla. Making varnish. 1,699,646; Jan. 22.
- Williamson, Bailey F., and W. H. Beisler, Gainesville, Fla. Making ester gum. 1,734,987; Nov. 12.
- Williamson, Ben, Ashland, Ky. Acetylene lamp. 1,716,809; June 11.
- Williamson, Bert R., Fairfield, assignor, by mesne assignments, to Fidelity Trust Company, trustee, Portland, Me. Apparatus for molding articles from pulp. 1,725,040; Aug. 20.
- Williamson Candy Company. (See Sanderson, Dale T., assignor.)
- Williamson, Colin M. (See Williamson, Stuart, assignor.)
- Williamson, Floyd M., Detroit, Mich. Nut lock. 1,709,965; Apr. 23.
- Williamson, Floyd M., Detroit, Mich. Adjustable holding device. 1,737,397; Nov. 26.
- Williamson, Frederick B. Jr., Elizabeth, N. J. Hose. 1,736,106; Nov. 19.
- Williamson, Harry M., McCleary, Wash. Vegetable cutter. 1,735,702; Nov. 12.
- Williamson, Henry C., Buntyn, Tenn. Vending machine. 1,720,505; July 9.
- Williamson, James, Chicago, Ill. Electric-socket cover. 1,703,976; Mar. 5.
- Williamson, James C., Cordele, Ga., assignor to Ross-Meehan Foundries, Chattanooga, Tenn. Stump puller. 1,730,707; Oct. 8.
- Williamson, John K., Leon, Iowa. Banjo-head tightener. 1,724,629; Aug. 13.
- Williamson, John S., Grand Rapids, Mich. Panel construction. 1,724,333; Aug. 13.
- Williamson, Marshall I., Baltimore, Md. Vibratory-diaphragm controller. 1,713,581; May 21.
- Williamson, Percy L., Long Beach, Calif. Controlling device for electric-lighting systems. 1,736,474; Nov. 19.
- Williamson, R., Company. (See Ohm, Albert J. D., assignor.)
- Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Current-collecting device. 1,706,369; Mar. 19.
- Williamson, Samuel F., Philadelphia, Pa. Indicating device for playing cards. 1,698,776; Jan. 15.
- Williamson, Stuart, assignor of one-half to C. M. Williamson, London, England. Photographic enlarging and reducing apparatus. 1,715,526; June 4.
- Williamson, William H., Hamilton, Ontario, Canada. Trolley head. 1,733,926; Oct. 29.
- Willford, Oscar H., Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,733,569; Oct. 29.
- Willis, Arthur B., Stockton, Calif. Scaffolding trestle. 1,725,168; Aug. 20.
- Willis, Arthur E., South Bend, Ind. Device for grinding cooked vegetables. 1,712,802; May 14.
- Willis, Bernard D., Oak Park, assignor by mesne assignments to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,697,623; Jan. 1.
- Willis, Bernard D., Oak Park, assignor, by mesne assignments to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,698,979; Jan. 15.
- Willis, Bernard D., assignor to Automatic Electric Inc., Chicago, Ill. Rotary line switch. 1,719,862; July 9.
- Willis, Frank E. (See Bleher, W. C., Willis, and Wentworth.)
- Willis, Glenn H., assignor, by mesne assignments, to Tansieb Company, Akron, Ohio. Producing colored composite materials. 1,701,220; Feb. 5.
- Willis, Glenn H., assignor to J. L. Snyder, Akron, Ohio. Rubber heel. 1,721,982; July 23.
- Willis, Glenn H., assignor to J. L. Snyder, Akron, Ohio. Composite rubber heel. 1,735,369; Nov. 12.
- Willis, Le Roy W., Brooklyn, assignor to Intertype Corporation, New York, N. Y. Metal pot for typographical machines. 1,732,075; Oct. 15.
- Willis, Stanley L., and W. H. Woodford, Bridgeport, Conn., assignors to Remington Arms Company, Inc. Waterproofing. 1,701,868; Feb. 12.
- Willis, Stanley L., and W. H. Woodford, Bridgeport, Conn., assignors to Remington Arms Company, Inc. Waterproofing. 1,738,628; Dec. 10.
- Willis, Wilfred E., Teaneck, N. J., assignor to J. E. Walls, Middletown, Del. Speed boat. 1,737,180; Nov. 26.
- Willmann, Paul, Berlin, Germany. Air pump. 1,720,159; July 9.
- Willmore, Merton W., assignor to The Gibson Art Company, Cincinnati, Ohio. Novelty card and device. 1,710,793; Apr. 30.
- Willner, Ernest A., sr. (See Butler, Leonard L., assignor.)
- Willner, Ernest A., sr., Lincoln, Nebr. Invalid-chair truck. 1,700,009; Jan. 22.
- Willoughby, Ira, Edon, Ohio. Poultry coop. 1,707,834; Apr. 2.
- Willoughby, John A., Florence, S. C., and P. D. Lowe, Washington, D. C. Radio signal apparatus. 1,708,071; Apr. 9.
- Willoughby, Victor. (See Almquist, L., and Willoughby.)
- Willoughby, Victor. (See Gibbs, F. H., and Willoughby.)
- Willoughby, Victor. (See Kassler, A., and Willoughby.)
- Willoughby, Victor. (See Ostrander, A. E., and Willoughby.)
- Willoughby, Victor. (See Steinmeyer, J. W., and Willoughby.)
- Willoughby, Victor. (See Thompson, J. D., and Willoughby.)
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Locking means for tank-dome manhole covers. 1,699,648; Jan. 22.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Multiunit tank car. 1,699,649; Jan. 22.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Brake lever. 1,699,650; Jan. 22.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Tank-car valve and attaching same. 1,706,092; Mar. 19.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Insulated tank car. 1,727,684; Sept. 10.
- Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Container. 1,727,685; Sept. 10.
- Willrodt, Fred L., Omaha, Nebr. Steering attachment for tractors. Re17,543; Dec. 31.
- Wills, Charles M., Atlantic City, N. J., assignor to The American Transom Co., Inc., Philadelphia, Pa. Visionless ventilator. 1,701,992; Feb. 12.
- Wills, Charles M., Atlantic City, N. J., assignor to The American Transom Co., Inc., Philadelphia, Pa. Visionless ventilator. 1,701,993; Feb. 12.
- Wills, Charles M., Atlantic City, N. J., assignor to The Moldic Co., Inc., Philadelphia, Pa. Ventilator. 1,703,437; Feb. 26.
- Wills, Charles M., Atlantic City, N. J., assignor to The American Transom Co., Inc., Philadelphia, Pa. Ventilator. 1,709,295; Apr. 16.
- Wills, Child H., Marysville, Mich. Piston for internal-combustion engines. 1,717,750; June 18.
- Wills, Dennis S., Hattiesburg, Miss. Fireplace heater. 1,733,846; Oct. 29.
- Wills, Harry E., North Brookfield, Mass. Trimming machine. 1,722,549; July 30.
- Wills, Walter B., Baltimore, Md. Securing wires together. 1,713,314; May 14.
- Wills, William, assignor of one-half to J. G. Evans, Philadelphia, Pa. Internal-combustion engine. 1,722,726; July 30.
- Willshaw, Harry. (See Randles, J. T. T., Willshaw, and Smith.)
- Willie, Charles F. (See Denson, T. M., and Willie.)
- Willson, Frederick, Mount Penn, assignor to Willson Products, Inc., Reading, Pa. Goggles. Des. 79,272; Aug. 20.
- Willson Products, Inc. (See Shindel, Harry F., assignor.)
- Willson Products, Inc. (See Willson, Frederick, assignor.)
- Willson, Robert W., deceased, by A. H. Brooks, administrator, Cambridge, Mass., assignor, by mesne assignments, to Brandis & Sons Inc., Brooklyn, N. Y. Instrument including means for determining the horizontal direction. 1,705,146; Mar. 12.
- Willstätter, Richard, Munich, Germany, and R. Sobotka, New York, N. Y. Yeast preparation and manufacturing the same. 1,701,200; Feb. 5.
- Willys-Overland Company, The. (See Baker, Arthur J., assignor.)
- Willys-Overland Company, The. (See Boughton, Solon J., assignor.)
- Willys-Overland Company, The. (See Edwards, H. J., and Gilbert, assignors.)
- Willys-Overland Company, The. (See Edwards, Henry J., assignor.)
- Willys-Overland Company, The. (See Girard, Arthur G., assignor.)
- Willys-Overland Company, The. (See Graebner, Otto F., assignor.)



- Willys-Overland Company, The. (See Grimm, George E., assignor.)
- Willys-Overland Company, The. (See Harrington, William F., assignor.)
- Willys-Overland Company, The. (See Hearn, Roy F., assignor.)
- Willys-Overland Company, The. (See Hunt, Warren T., assignor.)
- Willys-Overland Company, The. (See Miller, Albert C., assignor.)
- Willys-Overland Company, The. (See Snell, Lyle K., assignor.)
- Willys-Overland Company, The. (See Thieffels, Ferdinand N., assignor.)
- Willys-Overland Co., The. (See White, Clyde L., assignor.)
- Willwerscheid, Theodor R., St. Paul, Minn. Lamp-post with illuminated street signs. 1,740,054; Dec. 17.
- Wilmeth, Roscoe. (See Kurz, F., and Wilmeth.)
- Wilmeth, Roscoe H., assignor to Sangamo Electric Company, Springfield, Ill. Electrically-wound clock. 1,724,155; Aug. 13.
- Wilmore, Burks. (See Wilmore, James H., assignor.)
- Wilmore, James H., assignor of one-half to B. Wilmore, Marshall, Tex. Sliding and swinging support for air-brake signal pipes of passenger cars. 1,732,670; Oct. 22.
- Wilmot Castle Company. (See Underwood, Weeden B., assignor.)
- Wilmot Engineering Company. (See Blatch, Francis H., assignor.)
- Wilmot Engineering Company. (See Blatch, F. H., and McLean, assignors, and Menzies.)
- Wilmot Engineering Company. (See Wilmot, George W., assignor.)
- Wilmot, George W., assignor to Wilmot Engineering Company, Hazelton, Pa. Tooth for crushing rolls. 1,736,563; Nov. 19.
- Wilmot, John C., assignor to Variety Fire Door Company, Chicago, Ill. Door-latch retainers. 1,733,847; Oct. 29.
- Wilms, Gustav O., assignor, by mesne assignments, to The Reliance Company, Milwaukee, Wis. Radio apparatus. 1,737,903; Dec. 3.
- Wilputte Coke Oven Corporation. (See Pavitt, William H., assignor.)
- Wilputte Coke Oven Corporation. (See Wilputte, Louis, assignor.)
- Wilputte, Louis, New Rochelle, assignor, by mesne assignments, to Wilputte Coke Oven Corporation, New York, N. Y. Coking process and apparatus therefor. 1,710,464; Apr. 23.
- Wilputte, Louis, New Rochelle, assignor, by mesne assignments, to Wilputte Coke Oven Corporation, New York, N. Y. Washing hot-gas valves. 1,726,092; Aug. 27.
- Wilsey, Irven H., Chicago, Ill. Facilitating repair of fabrics. 1,722,550; July 30.
- Wilsey, Irven H., Chicago, Ill. Rotary machine. 1,732,871; Oct. 22.
- Wilsey, Irven H., assignor to J. B. Tuthill, Chicago, Ill. Rotary machine. 1,700,818; Feb. 5.
- Wilsey, Irven H., assignor to J. B. Tuthill, Chicago, Ill. Rotary machine. 1,719,639; July 2.
- Wilsey, Irven H., assignor to J. B. Tuthill, Chicago, Ill. Rotary machine. 1,719,640; July 2.
- Wilshire, William H., Los Angeles, Calif. Finger recoil pad. 1,703,464; Feb. 26.
- Wilsing, Paul, Duisburg, Germany. Brake gear for electric winches. 1,738,811; Dec. 10.
- Wilson, Albert O., Winchester, Mass. Stair. 1,713,582; May 21.
- Wilson, Albert O., Winchester, Mass. Stair. 1,726,133; Aug. 27.
- Wilson, Alfred C. (See Birkenmaier, T., and Wilson.)
- Wilson, Alfred R., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Car roof. 1,703,974; Mar. 5.
- Wilson, Alice, San Francisco, Calif. Badge. Des. 77,868; Feb. 26.
- Wilson, Archibald E., et al. (See Monument, George A., assignor.)
- Wilson & Bennett Manufacturing Company. (See Heinze, Augustus P., assignor.)
- Wilson & Bennett Manufacturing Company. (See Wilson, James H., assignor.)
- Wilson, Bingham T., Covina, Calif., assignor, to Wilson Farm Tool Corporation. Furrowing machine. 1,728,318; Sept. 17.
- Wilson, Broadus, Raleigh, N. C. Garment supporter. 1,721,874; July 23.
- Wilson, Broadus, Raleigh, S. C. Pulley. 1,722,875; July 30.
- Wilson, Charles F., Troy, N. Y. Terminal protector. 1,728,319; Sept. 17.
- Wilson, Charles J., Woodlake, Calif. Camping trailer. 1,715,971; June 4.
- Wilson, Charles S., Clinton, Ind. Dirigible spotlight. 1,733,289; Oct. 29.
- Wilson, Claud. (See Dennis, D. B., and Wilson.)
- Wilson, Clement P., Cedar Rapids, Iowa. Floral-wreath pin. 1,708,005; Apr. 9.
- Wilson, Clement P., Cedar Rapids, Iowa. Clinching press. 1,735,625; Nov. 12.
- Wilson, Earl, Stroud, Okla. Stuffing box. 1,735,193; Nov. 12.
- Wilson, Earl R., Flint, assignor to General Motors Corporation, Detroit, Mich. Thermostat mounting. 1,737,103; Nov. 26.
- Wilson, Edgar H., Ingram, and R. W. Schuette, Munhall, Pa. Metal-working machine. 1,707,421; Apr. 2.
- Wilson, Edward, St. Louis, Mo. Compressor and pump. 1,717,081; June 11.
- Wilson, Edward, assignor to National Pump and Compressor Company, St. Louis, Mo. Rotary compressor. 1,719,954; July 9.
- Wilson, Edwin B., Forest Hills, N. Y., and A. K. Spencer, West Orange, N. J., assignors to Design Laboratories, Incorporated, New York, N. Y. Christmas-tree ornament. 1,703,438; Feb. 26.
- Wilson, Elihu C. (See Deakins, Grover C., assignor.)
- Wilson, Elihu C., Los Angeles, Calif. Latch. 1,741,389; Dec. 31.
- Wilson, Elihu C., Los Angeles, assignor to Byron Jackson Pump Co., West Berkeley, Calif. Bushing and bushing-retaining means for tongs and the like. 1,732,625; Oct. 22.
- Wilson, Elihu C., and G. Woolway, Los Angeles assignors to Byron Jackson Pump Co., West Berkeley, Calif. Automatic gripping tongs. 1,733,248; Oct. 29.
- Wilson, Ellis L., San Anselmo, Calif. Door latch. 1,701,994; Feb. 12.
- Wilson, Ellis L., San Anselmo, Calif. Door lock. 1,719,282; July 2.
- Wilson, Ellis L., San Anselmo, Calif. Door latch. 1,724,630; Aug. 13.
- Wilson, Emery J., Cleveland Heights, Ohio. Speedometer. 1,715,633; June 4.
- Wilson, Emery J., Cleveland, assignor to The Thew Shovel Company, Lorain, Ohio. Dipper-stick mounting. 1,698,421; Jan. 8.
- Wilson, Emery J., Cleveland, assignor to The Thew Shovel Company, Lorain, Ohio. Power-shovel structure. 1,698,748; Jan. 15.
- Wilson, Emery J., Cleveland Heights, assignor to The Thew Shovel Company, Lorain, Ohio. Dipper-stick end fitting. 1,714,580; May 28.
- Wilson, Emery J., Cleveland, assignor to The Thew Shovel Company, Lorain, Ohio. Steering mechanism for tractors. 1,732,626; Oct. 22.
- Wilson, Ernest R., et al. (See Dautrick, Owen L., assignor.)
- Wilson, Estate of James S., et al. (See Murphy, Robert N., assignor.)
- Wilson Farm Tool Corporation. (See Wilson, Bingham T., assignor.)
- Wilson, Floyd J. (See Kan, L., and Wilson.)
- Wilson, Frank, Baton Rouge, La. Reversing mechanism for washing machines. 1,725,326; Aug. 20.
- Wilson, Frank M., Haines City, Fla. Incubator. 1,720,253; July 9.
- Wilson, Frank, sr., assignor to A. W. Reboul, Los Angeles, Calif. Divided axle. 1,732,825; Oct. 22.
- Wilson, Fred C., Rochester, N. Y. Clothesline-prop clutch. 1,732,627; Oct. 22.
- Wilson, Fred D., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Supplemental road grader. 1,710,329; Apr. 23.
- Wilson, Fred D., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Power-inclined leaning-wheel grader. 1,714,151; May 21.
- Wilson, Fred D., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Front-power-plant road grader. 1,714,152; May 21.
- Wilson, Fred P., Tujunga, assignor of one-third to E. E. Bowen and one-third to O. R. Gould, Los Angeles, Calif. Electrically-operated color-ray sign. 1,731,960; Oct. 15.
- Wilson, George, assignor to Motor Safety and Free Gear Company Limited, Newcastle-on-Tyne, England. Spragging device for motor vehicle. 1,719,157; July 2.
- Wilson, George B., and K. C. Eagley, assignors to Service Manufacturing Company, Erie, Pa. Lubricating gun. 1,705,743; Mar. 19.
- Wilson, George B., and K. C. Eagley, assignors to Service Manufacturing Company, Erie, Pa. Lubricating gun. 1,738,861; Dec. 10.
- Wilson, George C. (See May, William, assignor.)
- Wilson, George D., London, England, assignor to Baker Perkins Co. Inc., Saginaw, Mich. Apparatus for measuring and depositing plastic substances. 1,699,417; Jan. 15.
- Wilson, George M., Los Angeles, and E. E. Pryor, Fullerton, assignors to H. G. Gilman, Los Angeles, Calif. Fishing tool. 1,723,225; Aug. 6.
- Wilson, Gleon V., Santa Barbara, Calif. Radiator-cap ornament. Des. 80,101; Dec. 10.
- Wilson, Gordon C., Glendo, Wyo. Tray. 1,702,987; Feb. 19.
- Wilson, H. A., Company, The. (See Fry, Frank B., assignor.)
- Wilson, Hamlet J., Altrincham, England. Tree for footwear. 1,732,041; Oct. 22.
- Wilson, Harland D., and A. L. Hopkins, Indianapolis, Ind., assignors, by mesne assignments, to Prest-O-Lite Storage Battery Corporation. Storage battery. 1,716,610; June 11.
- Wilson, Harold S., Irvington, N. J. Door holder. 1,712,099; May 7.
- Wilson, Harry R., Tooele, Utah. Flotation Process. 1,733,570; Oct. 29.



- Wilson, Herbert L., assignor, by mesne assignments, to The Duro Company, Toledo, Ohio. Vehicle lamp. 1,713,110; May 14.
- Wilson, Homer, Del Rio, Tex. Surface-water pump. 1,724,157; Aug. 13.
- Wilson, Horace R., Harvey, Ill. Road grader. 1,693,980; Jan. 15.
- Wilson, Horatio W., Washington C. H., Ohio. Vehicle signal lamp. 1,740,637; Dec. 24.
- Wilson-Hurd Company. (See Henderson, Edwin L., assignor.)
- Wilson, Hurley H., assignor to Fuel Savers, Incorporated, Harrisburg, Pa. Damper regulator for boilers. 1,716,200; June 4.
- Wilson, Ira G., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Wave-transmission control. 1,704,850; May 12.
- Wilson, Ira G., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Echo-measuring circuit. 1,723,108; Aug. 6.
- Wilson, J. G., Corporation, The. (See Duncanson, Walter E., assignor.)
- Wilson, Jack. (See Nash, C. J., and Wilson.)
- Wilson, James H., Baginton, near Coventry, England. Lubrication of sealed mechanism. 1,713,634; May 21.
- Wilson, James H., assignor to Wilson & Bennett Manufacturing Company, Chicago, Ill. Dies for making can nozzles. 1,724,158; Aug. 13.
- Wilson, James L. H., Westboro, Ontario, Canada. Fountain pen. 1,737,954; Dec. 3.
- Wilson, James K., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron-discharge device. 1,722,121; July 23.
- Wilson, James R., assignor of one-half to H. R. Meade and one-fourth to A. M. Cox, Greenville, Tenn. Button-sewing attachment. 1,736,475; Nov. 19.
- Willson, Job H., assignor to Penn Art Steel Works, Erie, Pa. Receptacle. 1,712,864; May 14.
- Wilson, John F., and A. R. Lewellen, assignors to General Motors Corporation, Detroit, Mich. Instrument-panel mounting. 1,731,835; Oct. 15.
- Wilson, John G., Paoli, Pa. Hammer mill. 1,737,444; Nov. 26.
- Wilson, John H., New Kensington, assignor, by mesne assignments, to The Aluminum Company of America, Pittsburgh, Pa. Handle socket and protector. 1,739,700; Dec. 17.
- Wilson, John L. (See Lewis, A. P., and Wilson.)
- Wilson Jones Company. (See McCleary, Henry R., assignor.)
- Wilson-Jones Company. (See Newman, George W., assignor.)
- Wilson, Julius V., assignor to L. K. Wilson, High Point, N. C. Convertible furniture. 1,727,145; Sept. 3.
- Wilson, Katie H., Richmond, Va. Dress shield. 1,720,584; July 9.
- Wilson, Kirke R., Buffalo, N. Y. Combination machine for cylinder-block repairing. 1,702,679; Feb. 19.
- Wilson, Lawrence A., assignor of one-half to H. C. H. Weidner, Pittsburgh, Pa. Automatic closing device for cartons and the like. 1,735,704; Nov. 12.
- Wilson, Leon T., East Orange, N. J., assignor to American Telephone and Telegraph Company. Low-loss insulator. 1,708,038; Apr. 9.
- Wilson, Leon T., East Orange, N. J., assignor to American Telephone and Telegraph Company. Reduction of attenuation due to the conductance losses in cross arms and insulator pins. 1,710,756; Apr. 30.
- Wilson, Leonard D., Oregon City, Ore. Vacuum-cleaner attachment. 1,714,287; May 21.
- Wilson, Lewis A., assignor to Wyman-Gordon Company, Worcester, Mass. Machine for testing metal rods. 1,725,892; Aug. 27.
- Wilson, Louis E., Rochester, Minn. Truck. 1,716,611; June 11.
- Wilson, Lucy K. (See Wilson, Julius V., assignor.)
- Wilson, Ludwig, Chicago, Ill. Window-washer's safety device. 1,711,867; May 7.
- Wilson-Macullen Company. (See Williams, Edward, assignor.)
- Wilson, Maximus L., assignor of one-half to C. L. Kading, Wichita, Kans. Steering knob. 1,729,733; Oct. 1.
- Wilson, Merrick F., Oak Park, Ill. Toaster. 1,731,118; Oct. 8.
- Wilson, Myron S., Lynn, Mass., assignor to General Electric Company. Current transformer. 1,722,167; July 23.
- Wilson, Paul, et al. (See Hall, Randolph F., assignor.)
- Wilson, Peter, Indian Orchard, Mass. Connecting device. 1,717,903; June 18.
- Wilson, Prescott C., Brooklyn, N. Y. Traveler slide. 1,722,618; July 30.
- Wilson, Ralph W., New York, N. Y. Shaker cap. 1,730,870; Oct. 8.
- Wilson, Ramsay W., North Plainfield, N. J. Flexible shaft coupling. 1,734,988; Nov. 12.
- Wilson, Raymond C., assignor to International Motor Company, New York, N. Y. Seat. 1,702,883; Feb. 19.
- Wilson Rings Company. (See Wilson, Wylie G., assignor.)
- Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Automobile motor-cooling oil. 1,700,392; Jan. 29.
- Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Pressure distillation of heavy hydrocarbon oils. 1,712,187; May 7.
- Wilson, Robert E., Cambridge, Mass., assignor to Standard Oil Company, Whiting, Ind. Separating wax from mineral oils. 1,719,350; July 2.
- Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Distilling hydrocarbon oils. 1,731,479; Oct. 15.
- Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Heat exchanger. 1,737,347; Nov. 26.
- Wilson, Robert E., and R. D. Hunneman, Chicago, Ill., and W. H. Bahlke and F. M. Rogers, assignors to Standard Oil Company, Whiting, Ind. Fractionating column. 1,716,939; June 11.
- Wilson, Robert E., Chicago, Ill., J. E. Moore and G. W. Chenicek, assignors to Standard Oil Company, Whiting, Ind. Breather bag. 1,726,281; Aug. 27.
- Wilson, Ronald M., Wayne, assignor to William M. Wilson's Sons, Philadelphia, Pa. Pipe closure. 1,716,334; June 4.
- Wilson, Sidney A., Davenport, Iowa. Multiple carburetor. 1,736,239; Nov. 19.
- Wilson, Sidney E., Laurel, Miss. Refrigerating system. 1,702,145; Feb. 12.
- Wilson, Sidney E., Laurel, Miss. Expansion valve. 1,702,186; Feb. 12.
- Wilson, Silvestre F., Oakland, Calif. Lock for shut-off valves. 1,713,635; May 21.
- Wilson-Snyder Manufacturing Company. (See Shimer, John M., assignor.)
- Wilson, Steven, Cleveland, Ohio, assignor of one-half to T. G. Gregory. Sanitary telephone attachment. 1,741,668; Dec. 31.
- Wilson, Theresa A., Boonton, N. J. Drip catcher for pitchers and the like. 1,724,689; Aug. 13.
- Wilson, Thos., & Co. (See Radford, George, assignor.)
- Wilson, Thos. E., & Co. (See Turner, Archibald J., assignor.)
- Wilson, Tom, Philadelphia, Pa., assignor to Bethlehem Steel Company. Furnace port and operating the same. 1,710,282; Apr. 23.
- Wilson, Vincent E. (See Ricks, F., and Wilson.)
- Wilson, Walter E., assignor to Kick Products Corporation, Grand Junction, Colo. Confection implement. 1,714,834; May 28.
- Wilson, Walter E., W. J. Gleyre, and M. G. Homan, assignors to Kick Products Corporation, Grand Junction, Colo. Machine for making edible cups. 1,732,322; Oct. 22.
- Wilson, Walter G., South Ash Manor, Wrotham, England. Brake for controlling rotary motion. 1,714,833; May 28.
- Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)
- Wilson, Wesley, assignor to Benjamin Electric Mfg. Co., Chicago, Ill. Reflector. 1,740,488; Dec. 24.
- Wilson-Western Sporting Goods Company. (See Levinson, David, assignor.)
- Wilson, Wilbe R., Decatur, Ga. Advertising device. 1,731,693; Oct. 15.
- Wilson, William, assignor of one-half to J. Handis, Trenton, N. J. Brake. 1,741,178; Dec. 31.
- Wilson, William C., Chicago, Ill., assignor, by mesne assignments, to Cutler-Hammer, Inc. Nitrobenzene-sulphur resin and making same. 1,732,453; Oct. 22.
- Wilson, William C., Port Washington, N. Y. Screen. 1,739,701; Dec. 17.
- Wilson, William H., and H. Westberg, Los Angeles, Calif., assignors of one-fourth to R. P. Miller and three-fourths to said Wilson. Building construction. 1,739,883; Dec. 17.
- Wilson, William J. (See Moore, W. D., Barr, Moore, and Wilson.)
- Wilson, William J., London, England. Artificial limb. 1,722,727; July 30.
- Wilson, William L., Hinton, W. Va. Valve. 1,713,015; May 14.
- Wilson, William P., Detroit, Mich. Data computer. 1,735,028; Nov. 12.
- Wilson, William S., assignor of fifty per cent to S. W. Frazier, Washington, D. C. Price card and support. 1,741,669; Dec. 31.
- Wilson, William T., Chicago, Ill. Garment hanger. 1,722,122; July 23.
- Wilson, William W., Los Angeles, Calif. Well-screen manufacture. 1,706,430; Mar. 26.
- Wilson, William W., Los Angeles, Calif. Drum brake. 1,709,550; Apr. 16.
- Wilson, Wylie G., Jersey City, N. J. Valve. 1,699,217; Jan. 15.
- Wilson, Wylie G., assignor to Wilson Rings Company, Jersey City, N. J. Valve. 1,721,324; July 16.
- Wilson, Wylie G., assignor to Wilson Rings Company, Jersey City, N. J. Piston packing. 1,721,325; July 16.
- Wilson, Wylie G., assignor to Wilson Rings Company, Jersey City, N. J. Sealing or locking ring. 1,721,326; July 16.
- Wilson, Wylie G., Elizabeth, N. J. Gate valve. 1,723,264; Aug. 6.
- Wilson, Wylie G., Elizabeth, assignor to Everlasting Valve Company, Jersey City, N. J. Gas-shut-off valve. 1,723,593; Aug. 6.
- Wilson, Wylie G., assignor to Wilson Rings Company, Jersey City, N. J. Keying shafts to hubs. 1,734,188; Nov. 5.
- Wilson's, William M., Sons. (See Wilson, Ronald M., assignor.)



- Wilt, Frank E., Zanesville, Ohio. Waste-pipe cleaner. 1,722,512; July 30.
- Wilton van Reede, Corneliszoon, Adrianus A., Pijnacker, Netherlands. Steam or other fluid engine. 1,719,757; July 2.
- Wlits, Rudolf, Bremen, Germany. Luffing crane. 1,704,643; Mar. 5.
- Wiltse Appliance Co. (See Wiltse, Sumner, assignor.)
- Wiltse, Sumner, Detroit, Mich., assignor to Wiltse Appliance Co. Pump mechanism. 1,711,297; Apr. 30.
- Wiltse, Sumner, Detroit, Mich., assignor to Wiltse Appliance Co. Pump mechanism. 1,711,298; Apr. 30.
- Wimmer, Joseph. (See Mugdan, M., and Wimmer.)
- Wimsatt, Genevieve B., Washington, D. C. Fortune-telling device. 1,729,235; Sept. 24.
- Winchell, Harold B., assignor to The John W. Brown Mfg. Co., Columbus, Ohio. Focusing means for vehicle head lamps. 1,710,599; Apr. 23.
- Winchell, Thomas R., Portland, Me. Reenforcing metal strap for cleated cases. 1,698,574; Jan. 8.
- Winchester, Carey C., Atlanta, assignor to National Cedarchex Corporation, Fulton County, Ga. Fumigating device. 1,728,157; Sept. 10.
- Winchester, Frank U. (See Trumble, J. T., and Winchester.)
- Winchester, Frank U., assignor, by mesne assignments, to Steel Wheel Corporation, Lansing, Mich. Air-cooled-wheel construction. 1,730,490; Oct. 8.
- Winchester Repeating Arms Company. (See Bowne, Raymond W., assignor.)
- Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)
- Winchester Repeating Arms Company. (See Jordan, Lawrence W., assignor.)
- Winchester Repeating Arms Company. (See McNutt, Joseph D., assignor.)
- Winchester Repeating Arms Company. (See Robinson, William J., assignor.)
- Winckler, Aage E., Milwaukee, Wis. Controller for transmissions. 1,711,868; May 7.
- Winckler, Aage E., Milwaukee, Wis. Motor. 1,716,020; June 4.
- Windber Manufacturing Co. (See Lochrie, Thomas, assignor.)
- Windberger, Othmar, Wiener-Neustadt, Austria. Motor vehicle with tubular underframe. 1,704,451; Mar. 5.
- Winder, Frank J., Brackenridge, Pa., assignor to The Surface Combustion Company, Inc., New York, N. Y. Normalizing furnace. 1,723,109; Aug. 6.
- Winder, Frank J., Brackenridge, Pa., assignor to Allegheny Steel Company. Continuous-heat annealing furnace. 1,738,130; Dec. 3.
- Winder, Joseph Z., assignor to Richmond Fireproof Door Company, Richmond, Ind. Fire door. 1,711,513; May 7.
- Winder, Joseph Z., assignor to Richmond Fireproof Door Company, Richmond, Ind. Electromechanical interlock. 1,725,041; Aug. 20.
- Windfeldt, Christian J., New Rochelle, N. Y. Sanding and polishing machine. 1,737,135; Nov. 26.
- Windisch, Julius. (See Mandl, K. F., and Windisch.)
- Windle, John E. (See Harmon, W. E., and Windle.)
- Windle, Randolph T., New York, N. Y. Signaling apparatus. 1,722,168; July 23.
- Window Glass Machine Company. (See Clark, Henry F., assignor.)
- Windridge, Frederick N. (See Powell, Everton B., assignor.)
- Windsor, John F., assignor to Clayton Mark & Company, Chicago, Ill. Strainer and making the same. 1,731,366; Oct. 15.
- Windsor, William L., 3d, Harrisburg, Pa. Route indicator. 1,738,413; Dec. 3.
- Wine Railway Appliance Company. (See Ellis, E. C., and Maddox, assignors.)
- Wine Railway Appliance Company. (See Wine, William E., assignor.)
- Wine Railway Appliance Company, The. (See Wine, William E., assignor.)
- Wine, William E., Toledo, Ohio. Freight car. Re17,285; Apr. 23.
- Wine, William E., Toledo, Ohio. Freight car. 1,698,865; Jan. 15.
- Wine, William E., Toledo, Ohio. Freight car. 1,698,866; Jan. 15.
- Wine, William E., Toledo, Ohio. Freight car. 1,698,867; Jan. 15.
- Wine, William E., Toledo, Ohio. Door device. 1,699,386; Jan. 15.
- Wine, William E., Toledo, Ohio. Top rail for freight cars. 1,703,757; Feb. 26.
- Wine, William E., Toledo, Ohio. Hopper-car construction. 1,705,147; Mar. 12.
- Wine, William E., Toledo, Ohio. Car-door construction. 1,712,188; May 7.
- Wine, William E., Toledo, Ohio. Car-door mechanism. 1,729,370; Sept. 24.
- Wine, William E., Toledo, Ohio. Side bearing. 1,736,476; Nov. 19.
- Wine, William E., Toledo, Ohio. Body bolster. 1,741,897; Dec. 31.
- Wine, William E., Toledo, Ohio, and B. W. Kadel, Baltimore, Md. Car-door mechanism. 1,704,158; Mar. 5.
- Wine, William E., assignor to Wine Railway Appliance Company, Toledo, Ohio. Body bolster. Re17,542; Dec. 31.
- Wine, William E., assignor to Wine Railway Appliance Company, Toledo, Ohio. Freight car. 1,703,756; Feb. 26.
- Wine, William E., assignor to Wine Railway Appliance Company, Toledo, Ohio. Body bolster. 1,703,758; Feb. 26.
- Wine, William E., assignor to Wine Railway Appliance Company, Toledo, Ohio. Side sill. 1,703,804; Feb. 26.
- Wine, William E., assignor to The Wine Railway Appliance Company, Toledo, Ohio. Traction wheel. 1,705,796; Mar. 19.
- Wine, William E., assignor to The Wine Railway Appliance Company, Toledo, Ohio. Securing bars to traction shoes. 1,715,881; June 4.
- Winegarden, Benson N., Pittsburgh, Pa. Electric-circuit controller. 1,704,378; Mar. 5.
- Wingearner, Jonas E., Warrensburg, Ill. Blower-pipe attachment. 1,732,491; Oct. 22.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Controlling mechanism. 1,731,694; Oct. 15.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Furnace. 1,738,680; Dec. 10.
- Wineman, Wade H., Michigan City, Ind., assignor to Sullivan Machinery Company. Spitting device. 1,734,934; Nov. 5.
- Winett, Schai A., New York, N. Y. Clothesline attachment. 1,736,868; Nov. 26.
- Winfield, Edward A., La Canada, Calif. Internal-combustion engine. 1,699,260; Jan. 15.
- Wing, Lee, San Francisco, Calif. Camper's outfit case. 1,716,612; June 11.
- Wing, Roy E., Detroit, Mich. Golf-bag support. 1,739,702; Dec. 17.
- Wingate, William, Barrow-in-Furness, England. Ship's stern frame. 1,706,093; Mar. 19.
- Wingblade, Earl L. (See Lohofener, Henry W., assignor.)
- Winger, Raymond D., Colfax, Wis. Flume-rack cleaner. 1,708,817; Apr. 9.
- Wingler, August. (See Schulemann, W., Schönhöfer, and Wingler.)
- Wingquist, Sven G., Gottenborg, Sweden. Automatic speed-ratio regulator for hydraulic couplings and change-speed gears. 1,701,903; Feb. 12.
- Wingquist, Sven G., Gottenborg, Sweden. Power transmission. 1,706,272; Mar. 19.
- Wingquist, Sven G., Gottenborg, Sweden. Hydraulic transmission mechanism. 1,714,652; May 28.
- Wingren, Charles O., Pasadena, Calif. Control mechanism for film feed. 1,713,939; May 21.
- Winkel, Hermann, assignor to the firm R. Winkel & Co. m. b. H., Göttingen, Germany. Microscope. 1,713,412; May 14.
- Winkel, R. G. m. b. H. (See Winkel, Hermann, assignor.)
- Winkelmann, Herbert A. (See Geer, W. C., and Winkelmann.)
- Winkelmann, Herbert A., assignor to The Philadelphia Rubber Works Company, Akron, Ohio. Moldable composition and making same. 1,709,241; Apr. 16.
- Winkelmann, Herbert A., assignor to The Philadelphia Rubber Works Company, Akron, Ohio. Composition of matter and making same. 1,709,242; Apr. 16.
- Winkelmann, Herbert A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and making the same. 1,716,474; June 11.
- Winkle, Ward A., Burnett, Wis. Hamburger-cake-forming apparatus. 1,699,086; Jan. 15.
- Winklehaus, Frederick O., Woodhaven, N. Y., assignor to Metropolitan Electric Manufacturing Company. Electric panel or distribution board. 1,736,028; Nov. 19.
- Winkler, Carl, Bern, Switzerland. Mold for casting stereotype plates. 1,720,585; July 9.
- Winkler, Carl, Bern, Switzerland. Automatic drive for opening and closing mold boxes and metal-controlling organs in machines for casting stereoplates. 1,739,432; Dec. 10.
- Winkler, Gustav, assignor to A. Zierer, Vienna, Austria. Preparation of a mild aromatic yoghurt curdled milk or a sweet yoghurt junket. 1,710,133; Apr. 23.
- Winkler, John L., Rittman, Ohio. Rotary hoe attachment for cultivators. 1,718,510; June 25.
- Winkler, Karl. (See Pier, M., and Winkler.)
- Winkler, Kurt, Frankenthal, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Multistage turbomixer. 1,727,152; Sept. 3.
- Winkler, Louis H. (See Kenney, E. F., and Winkler.)
- Winkler, Orville R., Los Angeles, Calif. Tension control. 1,708,344; Apr. 9.
- Winkler, Oscar S., Essex, Md. Chimney cap. Des. 79,775; Oct. 29.
- Winkler, Samuel M., New York, N. Y. Embroidered lace. Des. 79,542; Oct. 1.
- Winkler, Samuel M., New York, N. Y. Embroidered lace. Des. 79,776; Oct. 29.
- Winkler, Thomas, Seattle, Wash. Trap. 1,721,653; July 23.
- Winkley, Erastus E., Lynn, Mass. Odograph. 1,727,460; Sept. 10.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,698,041; Jan. 8.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel press. 1,698,042; Jan. 8.



- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Leveling machine. 1,703,849; Feb. 26.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last 1,709,891; Apr. 23.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-leveling machine. 1,713,583; May 21.
- Winkley, Erastus E., Lynn, and H. A. Davenport, Brockton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe-leveling machine. 1,719,158; July 2.
- Winlow, Albert E., Victoria, British Columbia, Canada. Lacing device for shoes and boots. 1,697,893; Jan. 8.
- Winn, Sidney B., Lapeer, Mich. Locking device for reversible trailers. 1,715,263; May 28.
- Winn, Sidney B., Lapeer, Mich. Swivel dump body for motor trucks. 1,722,692; July 30.
- Winn, Thomas C. (See Whipple, C. R., and Winn.)
- Winn, Wesley E., San Francisco, Calif. Statuette. Des. 79,397; Sept. 10.
- Winnall, Edward H. (See Winnall, Leslie W., and E. H.)
- Winnall, Leslie W. and E. H., Johannesburg, Transvaal, South Africa. Mechanically-operated bell. 1,733,175 Oct. 29.
- Winne, Harry A., Schenectady, N. Y., assignor to General Electric Company, Motor-control system. 1,698,288; Jan. 8.
- Winner, August, Chicago, Ill. Case holder for books. 1,705,166; Mar. 12.
- Winnett, Willard N., Toronto, Ontario, Canada. Garter. 1,722,406; July 30.
- Winnett, Willard N., assignor to The Currie Manufacturing Company Limited, Toronto, Ontario, Canada. Garter. 1,706,508; Mar. 26.
- Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Attaching knobs. 1,714,708; May 28.
- Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Panel mounting for switch casings or the like. 1,719,741; July 2.
- Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Friction detent. 1,739,812; Dec. 17.
- Winning, Robert K., Wauwatosa, and J. R. Thorp, West Allis, Wis., assignors, by mesne assignments, to The Dudley Lock Corporation, Chicago, Ill. Permutation lock. 1,736,183; Nov. 19.
- Winnighoff, Wilford J. (See Mailey, R. D., and Winnighoff.)
- Winogradow, Alexander, New York, N. Y. Steam superheater. 1,707,453; Apr. 2.
- Winsboro, William A., Los Angeles, Calif., assignor to J. A. Greathouse. Electric lamp and perfume holder therefor. 1,732,707; Oct. 22.
- Winship, Albert W., Utica, N. Y. Wardrobe hatbox. 1,728,223; Sept. 17.
- Winship, Emory. (See Knight, George D., assignor.)
- Winship, Emory. (See Marcum, Arthur L., assignor.)
- Winship, Emory. (See Rayburn, Alden G., assignor.)
- Winship, Emory. (See Rayburn, A. G., and Sumner, assignors.)
- Winship, Emory, et al. (See Rayburn, Elwyn M. and A. G., assignors.)
- Winship, Emory. (See Sumner, J. W., and Rayburn, assignors.)
- Winship, William, Bayonne, N. J. Apparatus for heat treatment of liquids. 1,712,372; May 7.
- Winship, William W., Freeport, N. Y. Electrical insulation. 1,707,590; Apr. 2.
- Winslow Boiler & Engineering Co. (See Tedman, Hudson A., assignor.)
- Winslow, Charles A., Vallejo, Calif. Air cleaner. 1,702,804; Feb. 19.
- Winslow, Frederick, Swindon, England. Apparatus for tuning and adjusting stringed fretted musical instruments. 1,716,570; June 11.
- Winslow, William, Fairbury, Ill. Weighing apparatus for thrashing machines. 1,709,451; Apr. 16.
- Winslow, William H., assignor to G. W. Dulany, jr., Chicago, Ill. Steam boiler. 1,735,345; Nov. 12.
- Winslow, William H., assignor to G. W. Dulany, jr., Chicago, Ill. Manufacture of boilers. 1,741,121; Dec. 24.
- Winslow, William H., Chicago, Ill., assignor to Foster Wheeler Corporation, New York, N. Y. Superheater tube and making same. 1,741,217; Dec. 31.
- Winsnes, Erling. (See Echou, Eugene, assignor.)
- Winsor & Jerauld Mfg. Co. (See Jerauld, Frank C., assignor.)
- Winsor & Jerauld Mfg. Co. (See Jerauld, Frank L., assignor.)
- Winsor, Philip H. D., Lodi, Calif. Tooth-paste ejector. 1,728,147; Sept. 10.
- Winsor, Roy J., Bucyrus, Ohio. Track. 1,707,953; Apr. 2.
- Winston, Joseph, New York, N. Y., assignor to The Stone Corporation. Concrete building construction. 1,697,744; Jan. 1.
- Winston, Sydney H., Brooklyn, N. Y. Spectacle case. 1,740,134; Dec. 17.
- Winter, Andrew J., assignor to John E. Smith's Sons Co., Buffalo, N. Y. Sausage stuffer. 1,697,583; Jan. 1.
- Winter, Charles L. (See Jensen, L., and Winter.)
- Winter, Edwin M., New York, N. Y. Building construction. 1,726,169; Aug. 27.
- Winter, Ernst, & Sohn. (See Winter, Heinrich E. E., assignor.)
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. 1,713,155; May 14.
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,713,156; May 14.
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Electrical regulator. 1,717,293; June 11.
- Winter, George J., Buffalo, N. Y. Cushion-arch-protector shoe. 1,709,049; Apr. 16.
- Winter, Harry J., London, England, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,727,385; Sept. 10.
- Winter, Heinrich E. E., assignor to the firm of Ernst Winter & Sohn, Hamburg, Germany. Apparatus for manufacturing rigid grinding bodies of emery, carborundum or the like. 1,737,486; Nov. 26.
- Winter, Ignatse, Welland, Ontario, Canada. Automobile head lamp. 1,715,527; June 4.
- Winter, John R., assignor to Youngstown Pressed Steel Company, Warren, Ohio. Making pressed-steel car wheels. 1,738,414; Dec. 3.
- Winter, Oscar, Philadelphia, Pa. Table pad. 1,712,373; May 7.
- Winter, Ralph L., East Dixfield, Me. Twine cutter. 1,710,283; Apr. 23.
- Winter, William, assignor of one-half to A. H. Bakke, Chicago, Ill. Advertising signboard. 1,726,282; Aug. 27.
- Winter, William, Chicago, Ill., assignor of one-half to A. H. Bakke, Wichita Falls, Tex. Road-map holder. 1,728,649; Sept. 17.
- Winter, William, assignor of one-half to A. H. Bakke, Chicago, Ill. Advertising device. 1,733,176; Oct. 29.
- Winterbottom, Ralph J., Sparta, Ill. Piston and piston pin. 1,724,985; Aug. 20.
- Wintercorn, Andrew F., Chicago, Ill. Engine-cooling system. 1,725,121; Aug. 20.
- Wintercorn, John B., Chicago, Ill. Universal joint. 1,700,991; Feb. 5.
- Winterfeld, Delbert, Sioux Center, Iowa. Repair sleeve for scythes. 1,731,759; Oct. 15.
- Winterich, John W., Cleveland, Ohio. Votive stand. 1,733,927; Oct. 29.
- Winterkorn, Albert, Columbus, Ohio. Airplane. 1,739,703; Dec. 17.
- Winters, Frederick, Paterson, N. J. Tension bracket for whip rollers. 1,724,631; Aug. 13.
- Winters, Lee L., Monroe, Mich. Cigar lighter. 1,701,650; Feb. 12.
- Winters, William H., Duluth, Minn. Pencil sharpener. 1,730,185; Oct. 1.
- Winther, Anthony, Kenosha, Wis., assignor, by mesne assignments, to All-American Mohawk Corporation, Chicago, Ill. Radio frequency amplification circuits. 1,700,393; Jan. 29.
- Winthrop Chemical Company. (See Albert, A., and Pfeiffer, assignors.)
- Winthrop Chemical Company. (See Benda, L., and Schmidt, assignors.)
- Winthrop Chemical Company. (See Callsen, Jürgen, assignor.)
- Winthrop Chemical Company. (See Eisleb, Otto, assignor.)
- Winthrop Chemical Company. (See Griessbach, R., and Ambros, assignors.)
- Winthrop Chemical Company. (See Günzler, Heinrich, assignor.)
- Winthrop Chemical Company. (See Hahl, Hans, assignor.)
- Winthrop Chemical Company. (See Hahl, H., and Schütz, assignors.)
- Winthrop Chemical Company. (See Hahl, Hans, assignor.)
- Winthrop Chemical Company. (See Knorr, A., and Weisenborn, assignors.)
- Winthrop Chemical Company. (See Kropp, Walter, assignor.)
- Winthrop Chemical Company. (See Meisenburg, Kurt, assignor.)
- Winthrop Chemical Company. (See Mietzsch, Fritz, assignor.)
- Winthrop Chemical Company. (See Neubert, Oskar, assignor.)
- Winthrop Chemical Company. (See Osvald, Gösta, assignor.)
- Winthrop Chemical Company. (See Pritchett, Rufus H., assignor.)
- Winthrop Chemical Company. (See Schmidt, Hans, assignor.)
- Winthrop Chemical Company. (See Schulemann, W., Schönhöfer, and Mietzsch, assignors.)
- Winthrop Chemical Company. (See Schulemann, W., Schönhöfer, and Wiegler, assignors.)
- Winthrop Chemical Company. (See Weyland, H. and Dieschel, assignors.)
- Winton, Alexander, Lakewood, Ohio. Internal-combustion engine. 1,729,530; Sept. 24.
- Winton, Alexander, Lakewood, Ohio. Pump structure. 1,724,156; Aug. 13.
- Winton, Henry D., Wellesley, assignor to Hersey Manufacturing Company, South Boston, Mass. Meter switch. 1,720,706; July 16.



- Winton, Lewis B., Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa. Differential-pressure gauge. 1,725,554; Aug. 20.
- Wintsch, Max T., assignor to The Lowell-Wintsch Automatic Train Control Corp., Lancaster, Pa. Automatic train-control apparatus. 1,697,624; Jan. 1.
- Wintsch, Max T., assignor to The Lowell-Wintsch Automatic Train Control Corp., Lancaster, Pa. Automatic train-control apparatus. 1,720,940; July 16.
- Wintz, George E., New York, N. Y. Automobile top pad. 1,728,093; Sept. 10.
- Winzenburg, Wilhelm, Kragenhof, near Cassel, Germany. Glass picture-projecting device for cinematographic apparatus. 1,721,425; July 16.
- Wirebonds Patents Company. (See Thompson, Osceola C., assignor.)
- Wire Transmitting Corporation. (See Pearne, Frank D., assignor.)
- Wired Radio, Inc. (See Crossley, Alfred, assignor.)
- Wired Radio, Inc. (See Culver, Charles A., assignor.)
- Wired Radio, Inc. (See Duncan, Robert D., jr., assignor.)
- Wired Radio, Inc. (See Hough, Clinton W., assignor.)
- Wired Radio, Inc. (See Hund, August, assignor.)
- Wired Radio, Inc. (See Miessner, Benjamin F., assignor.)
- Wired Radio, Inc. (See Nicolson, Alexander M., assignor.)
- Wired Radio, Inc. (See Powell, Edwin L., assignor.)
- Wired Radio, Inc. (See Taylor, Albert H., assignor.)
- Wired Radio, Inc. (See Taylor, A. H., and Crossley, assignors.)
- Wired Radio, Inc. (See Trogner, Arthur M., assignor.)
- Wired Radio, Inc. (See Trogner, A. M., and Rudolph, assignors.)
- Wired Radio, Inc. (See White, Edwin L., assignor.)
- Wired Radio, Inc. (See Worrall, Robert H., assignor.)
- Wireless Music Limited. (See McLachlan, Norman W., assignor.)
- Wireless Specialty Apparatus Company. (See Bailey, William M., assignor.)
- Wireless Specialty Apparatus Company. (See Hoyt, Reginald H., assignor.)
- Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
- Wireless Specialty Apparatus Company. (See Priess, William H., assignor.)
- Wireless Specialty Apparatus Company. (See Proctor, J. A., and Bailey, assignors.)
- Wireless Specialty Apparatus Company. (See Webster, William S., assignor.)
- Wiremold Company, The. (See Frederickson, Otto A., assignor.)
- Wiremold Company, The. (See Widell, Bernard O., assignor.)
- Wirne, Lowell C., et al. (See Lathrop, Asa, assignor.)
- Wirsching, Ralph J., and H. R. Faas, assignors to General Motors Research Corporation, Detroit, Mich. Corrosion-resisting coating. 1,738,748; Dec. 10.
- Wirt Company. (See Ermold, Elmer A., assignor.)
- Wirt Company. (See McKellip, Spencer W., assignor.)
- Wirt Company. (See Weichelt, Carl L., assignor.)
- Wirt Company. (See Weichelt, C. L., and Gill, assignors.)
- Wirt, Harrison L. (See Warren, G. B., and Wirt.)
- Wirt, Harrison L., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. 1,723,110; Aug. 6.
- Wirt, Ralph R., Long Beach, Calif. Locked wrist pin. 1,706,909; Mar. 26.
- Wirt, Zebulon, Los Angeles, Calif., assignor of one-fourth to E. Cackley, Omaha, Nebr. Condenser. 1,728,740; Sept. 17.
- Wirth, Alfred, Vienna, Austria. Permanent way for railways. 1,721,538; July 23.
- Wirth, Charles E., assignor to The Waterbury Metal Wares Company, Waterbury, Conn. Adjustable body with cluster. 1,732,208; Oct. 15.
- Wirth, Henry, Tanana, Alaska. Trap. 1,702,329; Feb. 19.
- Wirth-Frey, Elias, Aarau, Switzerland. Absorption refrigerating machine. 1,720,160; July 9.
- Wirth-Frey, Elias, Aarau, assignor to Sulzer Frères Société Anonyme, Winterthur, Switzerland. Absorption refrigerating machine. 1,718,283; June 25.
- Wirtz, Franklin H. (See Shaffer, G. A., and Wirtz.)
- Wirz, Ernst. (See Keller, G., and Wirz.)
- Wirz, Ernst, Uetikon, Switzerland. Unloading jack. 1,717,485; June 18.
- Wirz, Ernst, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Furnace electrode carrier. 1,719,863; July 9.
- Wirz, Ernst, assignor to A. G. Brown, Boveri & Cie., Baden, Switzerland. Heating-furnace apparatus. 1,723,319; Aug. 6.
- Wisbrod, Louis, assignor to Chicago Armor Corporation, Chicago, Ill. Armor. 1,739,112; Dec. 10.
- Wisby, Marius J. (See Ritter, J., and Wisby.)
- Wisby, Marius J., assignor to Hartmann Trunk Company, Racine, Wis. Garment-retainer bar. 1,704,114; Mar. 5.
- Wisby, Marius J., assignor to Hartmann Trunk Company, Racine, Wis. Automobile trunk holder. 1,705,797; Mar. 19.
- Wischemann, William. (See Hardies, P., and Wischemann.)
- Wisco Manufacturing Co. (See Bragdon, Herbert J., assignor.)
- Wisconsin Alumni Research Foundation. (See Peterson, W. H., and Fred, assignors.)
- Wisconsin Bridge & Iron Company. (See Coddington, Edwin D., assignor.)
- Wisconsin Knife Works, Inc. (See Weaver, Frank R., assignor.)
- Wisconsin Parts Company. (See Keese, Beverly W., assignor.)
- Wisconsin Parts Company. (See Rockwell, Willard F., assignor.)
- Wise, Frederick C., and W. Greenwood, London, England. Smoker's petrol lighter. 1,698,043; Jan. 8.
- Wise, John, Salina, Kans. Lawn mower. 1,731,086; Oct. 8.
- Wise-McClung Corporation. (See Adams, Thomas O., assignor.)
- Wise-McClung Corporation. (See Wise, W. J., and Adams, assignors.)
- Wise, Platt L., Portland, Ore. Subaqueous construction. 1,707,106; Mar. 26.
- Wise, Robert T., et al. (See Moore, Samuel, assignor.)
- Wise, Roger M., Oakland, assignor, by mesne assignments, to Gray & Danielson Mfg. Co., San Francisco, Calif. Radio tuning device. 1,703,563; Feb. 26.
- Wise, Solomon, Cincinnati, Ohio. Chain lock. Des. 77,446; Jan. 8.
- Wise, Solomon, Cincinnati, Ohio. Lock. Des. 77,447; Jan. 8.
- Wise, Solomon, Cincinnati, Ohio. Lock for spare rims and tires. Des. 78,075; Mar. 19.
- Wise, Solomon, Cincinnati, Ohio. Lock. 1,741,390; Dec. 31.
- Wise, Solomon, Cincinnati, Ohio. Lock for spare wheels. 1,741,391; Dec. 31.
- Wise, Stanley G., assignor to The Gebhart Folding Box Company, Dayton, Ohio. Folding box. 1,720,506; July 9.
- Wise, William J., and T. O. Adams, assignors, by mesne assignments, to Wise-McClung Corporation, New Philadelphia, Ohio. Vacuum cleaner. 1,727,849; Sept. 10.
- Wisenor, Gertrude C. (See Wisenor, Lemuel H., assignor.)
- Wisenor, Lemuel H., assignor of one-half to G. C. Wisenor, Portland, Ore. Lidded closure for cooking utensils. 1,724,244; Aug. 13.
- Wisham, Noel R., Mitchell, Ga. Vending machine. 1,697,378; Jan. 1.
- Wishart, William, Clinton, Iowa, assignor to Climax Engineering Company. Control-valve mechanism. 1,740,135; Dec. 17.
- Wishinsky, William, New York, N. Y. Watchcase. 1,709,700; Apr. 16.
- Wisner, Samuel H., Palmyra, N. J., assignor to Victor Talking Machine Company. Electrically-wound spring motor. 1,726,601; Sept. 3.
- Wisner, Abram C., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. 1,724,864; Aug. 13.
- Wisner, Charles E. (See Mowbray, James W., assignor.)
- Wissmar, Joseph, assignor of one-half to K. F. Rupp, Cleveland, Ohio. Bath brush. 1,699,261; Jan. 15.
- Wiswall, William J., Portland, Ore., assignor to American Sales Book Company, Limited, Toronto, Canada. Aligner and tear-off device for typewriting machines. 1,721,539; July 23.
- Wiswall, William J., Portland, Ore., assignor to American Sales Book Company, Limited, Toronto, Canada. Autographic register. 1,724,120; Aug. 13.
- Wiswedel, Friedrich, Schlagenthin, Germany. Ship's propeller. 1,739,884; Dec. 17.
- Wiswell, Ozre N. (See Allen, S. E., and Wiswell.)
- Wiswell, Ozro N., Los Angeles, Calif. Pull handle with automatic lock. 1,738,862; Dec. 10.
- Witchell Sheill Co. (See Sheill, Albert E., assignor.)
- Witchger, Eugene J., assignor to Lufkin Rule Co., Saginaw, Mich. Hook rule. 1,700,245; Jan. 29.
- Witchger, Eugene J., assignor to Lufkin Rule Co., Saginaw, Mich. Case for tape measures. 1,713,807; May 21.
- Witchger, Eugene J., assignor to Lufkin Rule Co., Saginaw, Mich. Case for tape measures. 1,715,156; May 28.
- With, Bror, Skoien, near Oslo, Norway. Ski tie. 1,702,330; Feb. 19.
- Withall, Arthur, assignor to American Steel Foundries, Chicago, Ill. Cast-steel bottom-drop door. 1,723,318; Aug. 6.
- Witham, David W., assignor to F. A. Uchtyl, Toledo, Iowa. Feeder. 1,703,805; Feb. 26.
- Witham, George S., jr., Hudson Falls, N. Y. Extractor. 1,722,693; July 30.
- Witham, George S., jr., Hudson Falls, N. Y. Indicating device for beaters. 1,732,114; Oct. 15.
- Witham, George S., jr., Hudson Falls, N. Y. Moisture indication and control. 1,741,266; Dec. 31.
- Witherow Steel Corporation. (See Witherow, William P., assignor.)
- Witherow, William P., assignor, by mesne assignments, to Colonial Trust Company, trustee, Pittsburgh, Pa. Making metal articles. 1,707,778; Apr. 2.
- Witherow, William P., assignor, by mesne assignments, to Colonial Trust Company, trustee, Pittsburgh, Pa. Article of manufacture and making the same. 1,710,526; Apr. 23.
- Witherow, William P., assignor to Witherow Steel Corporation, Pittsburgh, Pa. Axle blank. 1,722,123; July 23.



- Witherow, William P., and P. L. Coyle, assignors, by mesne assignments, to Colonial Trust Company, trustee, Pittsburgh, Pa. Die-rolled article and making the same. 1,712,286; May 7.
- Withers, William A., assignor to Airubber Corporation, Chicago, Ill. Composite mattress. 1,730,752; Oct. 8.
- Withington, Philip H., Cleveland, Ohio, assignor to The Sparks-Wittington Company, Jackson, Mich. Diaphragm signal. 1,722,348; July 30.
- Withington, Winthrop, Cleveland, Ohio. D top. 1,727,496; Sept. 10.
- Withington, Winthrop, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Broom rake. 1,706,507; Mar. 26.
- Withrow, Joseph E., and L. W. Close, assignors to The Toledo Pressed Steel Company, Toledo, Ohio. Burner. 1,732,708; Oct. 22.
- Withycombe, Robert M., Sydney, New South Wales, Australia. Dental instrument. 1,723,226; Aug. 6.
- Withyman, Albert E., London, England. Railroad safety appliance. 1,713,459; May 14.
- Wiby, Louis W., assignor to John Deere Tractor Company, Waterloo, Iowa. Tractor. 1,702,371; Feb. 19.
- Witt, John J., assignor to Goodspeed Machine Company, Winchendon, Mass. Machine for turning bobbin blanks. 1,703,806; Feb. 26.
- Witt, Roy M., Pennington Gap, Va. Tube. 1,701,433; Feb. 5.
- Witt, Roy M., Lynchburg, Va. Tube. 1,725,689; Aug. 20.
- Witt, William A., Lake Bluff, assignor to Monroe-Witt Manufacturing Company, North Chicago, Ill. Seal press. 1,741,595; Dec. 31.
- Wittcoff, Edward, assignor to Superior Hat Company, St. Louis, Mo. Harvest hat. Des. 79,398; Sept. 10.
- Wittcoff, Edward, assignor to Superior Hat Company, St. Louis, Mo. Hat. 1,698,519; Jan. 8.
- Wittcoff, Edward, assignor to Superior Hat Company, St. Louis, Mo. Hat. 1,735,705; Nov. 12.
- Witte, Gustav A., Riverside, assignor to International Precipitation Company, Los Angeles, Calif. Cementitious product and making the same. 1,737,904; Dec. 3.
- Witte, Gustav W., assignor to International Harvester Company, Chicago, Ill. Tripping mechanism for binder attachments. 1,705,322; Mar. 12.
- Witte, Martin, Breslau, Germany. Device for extinguishing the flame of blasting charges. 1,735,099; Nov. 12.
- Witte, Meinhard, Minneapolis, Minn. Radiator support. 1,699,826; Jan. 22.
- Wittek, Herbert, Beuthen, Germany. Reducing zinc ores. 1,728,094; Sept. 10.
- Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Lens mount for cameras. 1,705,385; Mar. 12.
- Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture-film guideway. 1,708,372; Apr. 9.
- Wittenberg, Armin H., Los Angeles, Calif. Stocking. Des. 77,661; Feb. 5.
- Wittenberg, Armin H., Los Angeles, Calif. Stocking. Des. 77,662; Feb. 5.
- Wittenberg, Lester. (See Paffen, P. J., and Wittenberg.)
- Wittenberg, Lester, New Rochelle, N. Y., assignor to The Barrett Company. Spray nozzle. 1,730,708; Oct. 8.
- Wittenborn, Frederick A., Trenton, N. J. Compound piston for internal-combustion engines. 1,718,097; June 18.
- Wittenbrock, William E., San Francisco, Calif. Drapery cornice. Des. 78,599; May 21.
- Witter, Claude A., Philadelphia, Pa. Vulcanizing mold. 1,697,703; Jan. 1.
- Witter, Helen J., Oakland, Calif. Hood for cooking utensils. 1,722,513; July 30.
- Witter, Leo E., Minneapolis, Minn., assignor to The Philip Carey Manufacturing Company. Cant strip. 1,731,928; Oct. 15.
- Witter, Willis D. (See Erwin, O. R., and Witter.)
- Witter, Willis D., Utica, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation. Fire-extinguisher unit. 1,739,274; Dec. 10.
- Wittig, Alvin C., Milwaukee, Wis. Check draft. 1,720,869; July 16.
- Wittig, Karl, Zell, Germany. Compressed-air engine. 1,726,462; Aug. 27.
- Witting, Bruno, Bonn-on-the-Rhine, Germany. Rolling of band iron, hoops, and the like. 1,718,806; June 25.
- Wittkuhn, Bruno, New York, N. Y., assignor to the firm Magnet-Werk G. m. b. H., Esenach Spezialfabrik für Elektromagnet-Apparate, Eisenach, Thuringia, Germany. Change-speed tooth gear. 1,724,159; Aug. 13.
- Wittliff, Theodore H., Cleveland, Ohio. Furniture construction. 1,697,298; Jan. 1.
- Wittliff, Theodore H., Cleveland, Ohio. Furniture brace. 1,706,431; Mar. 26.
- Wittliff, Theodore H., Cleveland, Ohio. Furniture brace. 1,710,911; Apr. 30.
- Wittliff, Theodore H., Cleveland, Ohio. Furniture brace and controlling device. 1,730,442; Oct. 8.
- Wittliff, Theodore H., Cleveland, Ohio. Brace for Windsor chairs and the like. 1,732,872; Oct. 22.
- Wittlinger, Max A., Vernon, Tex. Curb-service tray. 1,738,415; Dec. 3.
- Wittmann, Edward D., Columbus, Ohio. Pump for water-cooled engines. 1,718,675; June 25.
- Wittmer, Russell J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 1,702,372; Feb. 19.
- Witz, Albert A., Chicago, Ill. Ball joint. 1,697,037; Jan. 1.
- Witzel, Earl R., assignor to Kohler Company, Kohler, Wis. Automatic generating plant. 1,704,996; Mar. 12.
- Witzel, Earl R., assignor to Kohler Company, Kohler, Wis. Alternator with inherent regulation. 1,723,111; Aug. 6.
- Witzel, Karl, Zuffenhausen, Germany. Electric heating arrangement for heating the cooling water of combustion engines. 1,729,810; Oct. 1.
- Wobermin, John C., Brush, Colo. Sanitary expandable roost. 1,717,537; June 18.
- Woche, Max, & Son Company, The. (See Schmidt, M., and Neubacher, assignors.)
- Wodack Electric Tool Corporation. (See Haas, Joseph F., assignor.)
- Wodack Electric Tool Corporation. (See Wodack, O. P., and Haas, assignors.)
- Wodack, Oscar P., Chicago, and J. F. Haas, Forest Park, assignors to Wodack Electric Tool Corporation, Chicago, Ill. Portable power-driven tool. 1,708,345; Apr. 9.
- Wodtke, Hans, Buffalo, assignor, by mesne assignments, to General Cable Corporation, New York, N. Y. Reinforced electric cable. 1,707,700; Apr. 2.
- Woeckel, Emil O., Chicago, Ill. Motor stethoscope. 1,708,992; Apr. 16.
- Woelfel, George, Yerkess, Pa. Cleansing heavy woolen fabrics, etc. 1,711,162; Apr. 30.
- Woelm, Alfred, Berlin, Germany, assignor, by mesne assignments, to Pencil Mechanism Corporation. Step-by-step lead pencil. 1,700,246; Jan. 29.
- Woelm, Alfred, Berlin, Germany, assignor, by mesne assignments, to Pencil Mechanism Corporation. Magazine lead pencil. 1,700,247; Jan. 29.
- Woelm, Alfred, Berlin, Germany, assignor, by mesne assignments, to Pencil Mechanism Corporation. Tip for mechanical pencils. 1,724,245; Aug. 13.
- Woerfel, Adolph C., Sawyer, Wis. Store arrangement and fixture. 1,714,745; May 28.
- Woerner, Harman B., Terre Haute, Ind. Ultra-violet-ray machine. 1,705,798; Mar. 19.
- Woernle, Harry E., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Door latch. 1,706,644; Mar. 26.
- Woetzel, Kurt, Kobe, Japan, and H. Lint, Offenbach-on-the-Main, assignors to I. G. Farbenindustrie Aktien-gesellschaft, Frankfurt, Germany. Production of azodyestuffs on silk. 1,727,920; Sept. 10.
- Wofford, Earl. (See Owens, J. C., and Wofford.)
- Wofford, George, sr., assignor of two-thirds to A. M. Griffin, Los Angeles, Calif. Top-cylinder lubricator. 1,719,254; July 2.
- Wogstad, Andrew O. (See Wogstad, Carl and A. O.)
- Wogstad, Carl and A. O., Deer Creek Township, Worth County, Iowa. Corn harvester. 1,715,216; May 28.
- Wohl, Jerome I., Chicago, Ill. Cooler. Des. 78,870; June 25.
- Wohlgenuth, Melville J. (See Wensley, R. J., and Wohlgenuth.)
- Wohlgenuth, Melville J., Pittsburgh, Pa., and D. Hall, Los Angeles, Calif., assignors to Westinghouse Electric & Manufacturing Company. Motor-control system. 1,707,293; Apr. 2.
- Wohlhieler, Joseph W., Irvington, N. J., assignor to Keystone Stamping Corporation. Mopstick head. 1,723,638; Aug. 6.
- Wohlpart, August J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper-operating mechanism for sewing machines and thread controls for the looper. 1,699,262; Jan. 15.
- Wohlraabe, Otto, Plauen, Germany, assignor to Vogtlandische Maschinenfabrik (vormals J. C. and H. Dietrich) Aktiengesellschaft, Plauen, Germany. Web-registering means. 1,735,100; Nov. 12.
- Woick, Victor, Charlottenburg near Berlin, Germany. Driving means for motor vehicles. 1,727,089; Sept. 3.
- Woina, Benjamin A., Detroit, Mich. Vehicle closure. 1,705,799; Mar. 19.
- Wojdatt, Edward. (See Jarzabkiewicz, R., and Wojdatt.)
- Wojtycki, Louis, Milwaukee, Wis. Transmission device. 1,717,294; June 11.
- Wolcott, Dewey M., Sandusky, Ohio. Drilling machine. 1,724,814; Aug. 13.
- Wolcott, Frank C., Los Angeles, Calif., assignor of thirty-five one-hundredth to A. A. Micheletti. Corner bead for plastering. 1,728,461; Sept. 17.
- Wolcott, Frank E., West Hartford, Conn., assignor by mesne assignments, to The Beardsley & Wolcott Mfg. Co., Curling iron. 1,606,932; Jan. 1.
- Wold, Calmer G., Eau Claire, Wis. Automatic guard for saws. 1,720,535; July 9.
- Wold, Olaus C., Chicago, Ill. Air brush. 1,703,219; Feb. 26.
- Wolever, Charles N., Forty Fort, Pa. Article rest. 1,729,531; Sept. 24.
- Wolever, Franklin H., Chicago, Ill. Sand-blasting machinery. 1,723,112; Aug. 6.
- Wolf, Albert, et al. (See Escobales, Hilarion, assignor.)
- Wolf, Albert, et al. (See Irvine, William, assignor.)
- Wolf, Albert, et al. (See Wolf, Elias, assignor.)
- Wolf, Austin M., Plainfield, N. J. Motor-vehicle controlling mechanism. 1,701,964; Feb. 12.
- Wolf, Benjamin, et al. (See Escobales, Hilarion, assignor.)
- Wolf, Benjamin, et al. (See Irvine, William, assignor.)
- Wolf, Benjamin, et al. (See Wolf, Elias, assignor.)
- Wolf, Benzon, Chicago, Ill. Garter. 1,737,067; Nov. 26.



- Wolf, Charles, Worcester, Mass. Cutter head. 1,713,066; May 14.
- Wolf, Charles, Brooklyn, N. Y. Handle connection for hand bags and the like. 1,717,295; June 11.
- Wolf, Charles, Brooklyn, N. Y. Loop construction. 1,720,617; July 9.
- Wolf Co., The. (See Keefer, Walter L., assignor.)
- Wolf, Dorsey W., Lebanon, Pa. Gauge-rod wiper. 1,719,037; July 2.
- Wolf, Edward R., Miami, Fla. Shock absorber. Re17,184; Jan. 1.
- Wolf, Elias, et al. (See Escobales, Hilarion, assignor.)
- Wolf, Elias, et al. (See Irvine, William, assignor.)
- Wolf, Elias, et al. (See Wolf, Elias, assignor.)
- Wolf, Elias, Elkins Park, assignor, by mesne assignments, to H. B. E. L., and A. Wolf, trading and doing business as National Metal Edge Box Company, Philadelphia, Pa. Pasteboard box. 1,715,021; May 28.
- Wolf, Frank F., assignor to Oakes & Burger Co., Cattaraugus, N. Y. Can-washing machine. 1,716,406; June 11.
- Wolf, Georg, G. m. b. H. (See Loock, Günther, assignor.)
- Wolf, Hermann, Bad Homburg vor der Höhe, Germany, assignor to Carburul Aktiengesellschaft, Schaffhausen, Switzerland. Continuous distillation of hydrocarbons with simultaneous cracking of high-boiling into low-boiling hydrocarbons. 1,711,869; May 7.
- Wolf, Howard, et al. (See Escobales, Hilarion, assignor.)
- Wolf, Howard, et al. (See Irvine, William, assignor.)
- Wolf, Howard, et al. (See Wolf, Elias, assignor.)
- Wolf, John L., New York, N. Y. Belt. 1,737,782; Dec. 3.
- Wolf, Julius L., Cincinnati, Ohio. Novelty display form. 1,713,584; May 21.
- Wolf, Linus, Kankakee, Ill. Torch. 1,711,665; May 7.
- Wolf, Louis, et al. (See Escobales, Hilarion, assignor.)
- Wolf, Louis, et al. (See Irvine, William, assignor.)
- Wolf, Louis, et al. (See Wolf, Elias, assignor.)
- Wolf, Marie A., Cincinnati, Ohio. Apparatus for producing edible curls. 1,713,555; May 21.
- Wolf, Max, assignor of one-half to F. W. Gordon, New York, N. Y. Electrotherapeutic apparatus. 1,725,555; Aug. 20.
- Wolf, Milton G. (See Davidson, W. J., Wolf, and Berdich.)
- Wolf, Mortimer G. (See Floyd, R. H., and Wolf.)
- Wolf, Norman E. (See Gallagher, W. J., and Wolf.)
- Wolf, Otto R., River Forest, assignor to The Tribune Company, Chicago, Ill. Drying apparatus. 1,731,603; Oct. 15.
- Wolf, Robert B., New York, N. Y. Acid-sulphite-pulp process. 1,699,556; Jan. 22.
- Wolf, Rush, Bloomville, Ohio. Lawn mower. 1,719,791; July 2.
- Wolf, Sam T., assignor to Manhattan Bead Chain Co., New York, N. Y. Clasp for a necklace. Des. 80,207; Dec. 24.
- Wolf, Walter F. (See Gallagher, W. J., and Wolf.)
- Wolf, Walter F., New York, N. Y. Binder. 1,714,335; May 21.
- Wolf, Walter F., New York, N. Y. Loose-leaf binder. 1,731,156; Oct. 8.
- Wolf, Walter G. (See Keefer, Walter L., assignor.)
- Wolfard, Merl R., Cambridge, assignor to C. F. Hopewell, and H. C. Hopewell, Watertown, Mass., a copartnership doing business as Hopewell Brothers. Thermostatic device. 1,725,607; Aug. 20.
- Wolfe, Clarence H., Cincinnati, Ohio, assignor to Remington Rand Inc., Tonawanda, N. Y. Type-swaging machine. 1,715,401; June 4.
- Wolfe, Dell H., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Combined shaft and gudgeon. 1,700,867; Feb. 5.
- Wolfe, Edwone S., and S. M. Lanton, Los Angeles, Calif. Face-heating pad. 1,715,486; June 4.
- Wolfe, Ernest E., assignor to H. O. Joseph, Los Angeles, Calif. Dispenser for powdered or granulated materials. 1,727,320; Sept. 3.
- Wolfe, Frank S., San Francisco, Calif. Attachment for dispensing devices. 1,703,284; Feb. 26.
- Wolfe, George N., assignor to Sidway-Topliff Company, Washington, Pa. Child's vehicle. 1,704,068; Mar. 5.
- Wolfe, George N., assignor to Sidway-Topliff Company, Washington, Pa. Velocipede. 1,727,262; Sept. 3.
- Wolfe, Henry G., White Plains, N. Y., assignor to Edge Moor Iron Company, Water wall. 1,710,676; Apr. 23.
- Wolfe, Henry W., Baltimore, Md., assignor to American Can Company, New York, N. Y. Feed gauge for slitters. 1,731,480; Oct. 15.
- Wolfe, John, Paris, France. Cigarette-package holder. 1,702,187; Feb. 12.
- Wolfe, John E., assignor of one-half to Calumet Coal Company, Chicago, Ill. Bag holder. 1,700,248; Jan. 29.
- Wolfe, Owen C. (See Hoggatt, Wilford B., assignor.)
- Wolfe, Samuel S., Carlton, Tex. Cooking vessel. 1,720,986; July 16.
- Wolfert, Edward R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator. 1,705,695; Mar. 19.
- Wolfert, Edward R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,736,477; Nov. 19.
- Wolff, Arthur O., et al. (See Woodward, Horace L., assignor.)
- Wolff, Friedrich, Paris, France. Advertising sign. Des. 78,076; Mar. 19.
- Wolff, Friedrich, Berlin, Germany. High-pressure gas burner. 1,697,549; Jan. 1.
- Wolff, George F., assignor to Sager Metal Weatherstrip Co., Chicago, Ill. Metal weather strip. 1,728,650; Sept. 17.
- Wolff, Gerhard M. (See Cockerell, Fritz, assignor.)
- Wolff, Harry S., New Rochelle, N. Y. Stocking. 1,697,255; Jan. 1.
- Wolff, Hugo. (See Lüttringhaus, A., Meresheimer, and Wolff.)
- Wolff, Hugo. (See Lüttringhaus A., and Wolff.)
- Wolff, Hugo, Mannheim, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs by acid condensation of 2-benzanthronyl-1-amino-anthraquinones. 1,711,710; May 7.
- Wolff, Joseph, Brooklyn, N. Y., assignor, by mesne assignments to Sonora Phonograph Company, Inc., New York, N. Y. Combination phonograph and radio. 1,697,215; Jan. 1.
- Wolff, Joseph P., Detroit, Mich. Shingle. 1,721,242; July 16.
- Wolff, Saul K., Long Beach, assignor to American Gas Products Corporation, New York, N. Y. Garage heater. 1,739,199; Dec. 10.
- Wolff, Wallace B., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,698,868; Jan. 15.
- Wolff, Wallace B., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,698,869; Jan. 15.
- Wolff, Wallace B., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,707,701; Apr. 2.
- Wolff, Walter, Berlin-Kopenick, Germany, assignor to General Electric Company. Telephone repeater. 1,708,748; Apr. 9.
- Wolff, Walter, Chicago, Ill. Sash weight. 1,704,931; Mar. 12.
- Wolff, Walther, Berlin-Kopenick, Germany, assignor to General Electric Company. Amplifier connection. 1,699,129; Jan. 15.
- Wolfenstein, Richard, Berlin-Dahlem, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfurt-on-the-Main, Germany. Complex compound of aromatic para-diamines with sulphur-dioxide and preparing same. 1,726,252; Aug. 27.
- Wolfram, George H., Viroqua, Wis. Railroad-grade-crossing unit. 1,730,709; Oct. 8.
- Wolfram, Arthur. (See Kränzlein, G., Vollmann, Greune, and Wolfram.)
- Wolfsleben, Georg, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Production of black trisazo dyestuffs. 1,740,801; Dec. 24.
- Wolfsen, Sidney L., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric cigar lighter. 1,701,458; Feb. 5.
- Wolfsen, Sidney L., Meriden, Conn., and C. C. Schoen, Detroit, Mich., assignors to The Cuno Engineering Corporation, Meriden, Conn. Cigar lighter. 1,732,784; Oct. 22.
- Wolin, Mark, Brooklyn, N. Y., and N. F. Ribsam, Jersey City, N. J. Combined vending and amusement machine. 1,734,102; Nov. 5.
- Wolkin, Edward H. (See Conover, Henry V., assignor.)
- Wolkow, Isaac L., Louisville, Ky., assignor to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. 1,707,338; Apr. 2.
- Wolkow, Jacob, Chicago, Ill. Casing for vehicle signal lamps. Des. 79,543; Oct. 1.
- Woll, Paul E., assignor to Peter Woll & Sons Mfg. Co., Philadelphia, Pa. Method of and apparatus for curling hair. 1,723,754; Aug. 6.
- Woll, Peter, & Sons Mfg. Co. (See Woll, Paul E., assignor.)
- Wollaston, Thomas R., Manchester, England. Boiler and the like. 1,735,945; Nov. 19.
- Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. 1,700,526; Jan. 29.
- Wollensak Optical Company. (See Wollensak, Andrew, assignor.)
- Wollenschlager, George, New York, N. Y. Pipe support. 1,737,989; Dec. 3.
- Wollman, Joseph C., Philadelphia, Pa. Necktie. 1,698,520; Jan. 8.
- Wolman, Karl H., Berlin-Grunewald, Germany. Wood-preserving means. 1,700,010; Jan. 22.
- Wolnik, Max, Brooklyn, N. Y. Coin-controlled automatic liquid-vending machine. 1,729,317; Sept. 24.
- Wolseley Motors (1927) Limited. (See Boden, Oliver, assignor.)
- Wolter, Herman H., assignor to The Miller Company, Meriden, Conn. Lamp standard. Des. 79,493; Sept. 24.
- Wolters, Benjamin W., Fennville, Mich. Snowplow. 1,709,243; Apr. 16.
- Wolters, Carl F., Marietta, Ohio, assignor, by mesne assignments to Remington Rand, Inc., New York, N. Y. Automatic drawer lock for filing cabinets. 1,700,299; Jan. 29.
- Wolters, Edgar, Hamburg, Germany. Therapeutical device. 1,739,625; Dec. 17.
- Wolters, Otto, Magdeburg, and K. Höper, Berlin-Charlottenburg, Germany; said Höper assignor to said Wolters. Typographical machine. 1,714,481; May 21.
- Wolstern, Ralph R., Ozone Park, N. Y. Breast supporter. 1,741,898; Dec. 31.
- Wolvekamp, Mari E., Oakland, Calif. Sound concentrator. 1,706,018; Mar. 19.



- Wolverine Brass Works. (See Cornelius, Louis A., assignor.)
- Wolverine Brass Works. (See Herst, Ward F., assignor.)
- Wolverine Bumper & Specialty Company. (See Hammond, Milton B., assignor.)
- Wolverine Supply & Manufacturing Company. (See Bain, Carl C., assignor.)
- Wolverton, Ann, New York. Lavatory. Des. 79,449; Sept. 17.
- Wolverton, Henrietta F., Salem, Oreg. Food holder. 1,717,644; June 18.
- Wolverton, Herbert W., Dallas, Tex., assignor to Frigidaire Corporation. Refrigerating apparatus. 1,699,576; Jan. 22.
- Wolzinski, Roman, Warrenton, Mo. Window-screen device. 1,738,131; Dec. 3.
- Womack, C. M., et al. (See Johnson, Walter, assignor.)
- Wood, Albert B., et al. (See Earl, George G., assignor.)
- Wood, Alexander P., Schenectady, N. Y., assignor to General Electric Company. End shield. 1,728,817; Sept. 17.
- Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Mileage-period-indicating odometer. 1,714,288; May 21.
- Wood, Anthony W., Upper Norwood, London, England. Ticket printing or marking and issuing machine. 1,720,254; July 9.
- Wood, Bert F. (See Goldsmith, C. L., and Wood.)
- Wood, C. D., Electric Co. (See Kulka, Eugene R., assignor.)
- Wood, Charles D., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Using sodium-silicate adhesives. 1,709,892; Apr. 23.
- Wood, Charles D., assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Preparation of sodium-silicate solution. 1,719,038; July 2.
- Wood, Charles E., Los Angeles, Calif. Float drill pipe. 1,712,803; May 14.
- Wood, Charles O. (See Wood, George H. and C. O.)
- Wood Conversion Company. (See Schorger, Arlie W., assignor.)
- Wood Conversion Company. (See Streeter, Edwin H., assignor.)
- Wood, Frank W., Montclair, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Controller for electric indicators. 1,735,706; Nov. 12.
- Wood, Franz J., Des Moines, Iowa. Spreader attachment for thrashing machines. 1,729,199; Sept. 24.
- Wood, Frederick C. (See Foulds, R. P., Marsh, and Wood.)
- Wood, Frederick H., Chicago, Ill. Screw-driving chuck. 1,698,521; Jan. 8.
- Wood, Frederick H., Chicago, Ill. Fresh-air heater for warm-air furnaces. 1,726,727; Sept. 3.
- Wood, Frederick J., and J. Luck, Haywards Heath, England. Apparatus for supplying liquids in predetermined quantities. 1,729,200; Sept. 24.
- Wood, George H., West Philadelphia, Pa. Saw sharpener. 1,719,351; July 2.
- Wood, George H. and C. O., Chambersburg, Pa. Sand strip. 1,720,068; July 9.
- Wood, George R., assignor to Dayton Scale Company, Dayton, Ohio. Feeding device for slicing machines. 1,702,624; Feb. 19.
- Wood, Harry L., Lakewood, assignor to D. W. K. Peacock, Cleveland, Ohio. Typewriting machine. 1,707,502; Apr. 2.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Double-deck printing press. Re17,376; July 16.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Double-deck printing press. 1,690,729; Jan. 22.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for casting tubular stereotype printing plates. 1,703,977; Mar. 5.
- Wood, Henry A. W., assignor to The Wood Newspaper Machinery Corporation, New York, N. Y. Printing-plate locking mechanism. 1,708,196; Apr. 9.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Printing-plate locking mechanism. 1,716,609; June 11.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Tension device for printing webs. 1,720,776; July 16.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Electrically-controlled plate casting and trimming machine. 1,726,787; Sept. 3.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Transferring slit webs. 1,726,788; Sept. 3.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for casting printing plates without a riser. 1,728,148; Sept. 10.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Inking mechanism for printing-press cylinders. 1,730,711; Oct. 8.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Multiple-width printing press. 1,733,707; Oct. 29.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Late-news device. 1,734,067; Nov. 5.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Inking mechanism. 1,737,723; Dec. 3.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Preparing paper rolls for the web change. 1,739,381; Dec. 10.
- Wood, Hugh N., Newcastle-upon-Tyne, England, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining machine. 1,703,807; Feb. 26.
- Wood Hydraulic Hoist & Body Company. (See Barrett, Edward R., assignor.)
- Wood, Jarrett B., Tulsa, Okla. Steam boiler. 1,719,385; July 2.
- Wood, John, Manufacturing Company. (See Marland, Arthur, assignor.)
- Wood, John, Manufacturing Company. (See Paige, Arthur E., assignor.)
- Wood, John, Manufacturing Company. (See Sponar, Aloysius T., assignor.)
- Wood, John G., Lansing, assignor to General Motors Corporation, Detroit, Mich. Engine mounting. 1,731,837; Oct. 15.
- Wood, John R., Hathoro, Pa., assignor to New Process Multi-Castings Company. Molding machine. 1,701,598; Feb. 12.
- Wood, John R., Hathoro, Pa., assignor to New Process Multi-Castings Company, Incorporated, Newark, N. J. Molding machine. 1,725,839; Aug. 27.
- Wood, John R., Hathoro, Pa., assignor to New Process Multi-Castings Company. Molding machine. 1,725,840; Aug. 27.
- Wood, Joseph D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electrical distribution system. 1,726,253; Aug. 27.
- Wood, Joseph D., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Electric-switch-operating mechanism. 1,729,756; Oct. 1.
- Wood, Joseph D., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Switch-operating mechanism. 1,729,757; Oct. 1.
- Wood, Joseph S., Cleveland Heights, Ohio. Hatch cover. 1,701,965; Feb. 12.
- Wood, Leslie C., Greensboro, N. C. Circuit closer. 1,713,460; May 14.
- Wood, Logan T., Detroit, Mich. Universal-tilting vehicle body. 1,698,522; Jan. 8.
- Wood, Logan T., Detroit, Mich. Locking mechanism for dumping bodies. 1,711,299; Apr. 30.
- Wood, Morris B., Somerville, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Truck-type switchboard and interlocking mechanism for the switches thereof. 1,726,204; Aug. 27.
- Wood Newspaper Machinery Corporation. (See Jordhoy, Hans C., assignor.)
- Wood Newspaper Machinery Corporation. (See Roesen, Oscar C., assignor.)
- Wood Newspaper Machinery Corporation. (See Tornberg, Isidor, assignor.)
- Wood Newspaper Machinery Corporation. (See Tornberg, I., and Jordhoy, assignors.)
- Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
- Wood, Norman F. (See Osborn, F. J., and Wood.)
- Wood, Preston K., Los Angeles, Calif. Pneumatic lift pump. 1,728,193; Sept. 17.
- Wood, Ralph, Chester, Pa., assignor to Scott Paper Company. Adjusting means for beater rolls. 1,716,407; June 11.
- Wood, Richard W., Bend, Calif. Card-index container. 1,712,318; May 7.
- Wood, Richard W., Buffalo, N. Y. Visible card index. 1,729,908; Oct. 1.
- Wood, Robert F., Newark, N. J., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Casting process and apparatus. Re17,220; Feb. 19.
- Wood, Robert W. (See Loomis, A. L., and Wood.)
- Wood, Robert, Garwick, Isle of Man. Automatic apparatus for supplying steam and lubricant to engine cylinders. 1,738,549; Dec. 10.
- Wood, Rodney J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Credit file. 1,714,896; May 28.
- Wood, Roy A., assignor to Arrowhead Springs Beverage Co., Los Angeles, Calif. Combined bottle display and statuette. Des. 78,955; July 9.
- Wood, Russell A., Cambridge, Mass. Traffic indicator. 1,708,459; Apr. 9.
- Wood, Russell M., Plainfield, N. J., assignor to Radio Electric Clock Corporation, New York, N. Y. Clock-synchronizing mechanism. 1,723,964; Aug. 6.
- Wood Shovel and Tool Company, The. (See Brandenburg, Francis C., assignor.)
- Wood Shovel and Tool Company, The. (See Upton, Clifford D., assignor.)
- Wood, Stanford J., and H. A. Greene, Jr., Los Angeles, Calif. Fixed condenser. 1,727,581; Sept. 10.
- Wood, Straud K., Hutchinson, Kans. Car seal. 1,702,288; Feb. 19.
- Wood, Straud K., Denver, Colo. Automobile identifying device. 1,711,191; Apr. 30.
- Wood, Vera L., et al., trustees. (See Coppus, Frans H. C., assignor.)



- Wood, Wallace H., Waverley, assignor to Norton Company, Worcester, Mass. Work-loading device. 1,738,027; Dec. 3.
- Wood, Walter. (See Camerota, Louis A., assignor.)
- Wood, Walter. (See Pfeffer, George C., assignor.)
- Wood, Walter A., assignor to General Motors Research Corporation, Detroit, Mich. Composite piston. 1,707,748; Apr. 2.
- Wood, Walter W., Canton, Ohio. Window glass. 1,740,278; Dec. 17.
- Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Apparatus for pulverizing. 1,697,704; Jan. 1.
- Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Furnace for burning finely-divided fuel. 1,729,022; Sept. 24.
- Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Impact pulverizer. 1,734,661; Nov. 5.
- Wood, Wilfred R., London, England, assignor to International Combustion Engineering Corporation, New York, N. Y. Steam generator. 1,736,423; Nov. 19.
- Wood, William H., South Euclid, Ohio. Wood veneer and preparing same. 1,738,132; Dec. 3.
- Wood, Winthrop B., assignor to Joseph Bancroft & Sons Co., Wilmington, Del. Stretcher roll. 1,718,620; June 25.
- Woodall, Charles A., Jr. (See Knapp, J. G., and Woodall.)
- Woodall, Herbert J., and M. S. Randall, Detroit, Mich. Automobile closed-body construction. 1,740,489; Dec. 24.
- Woodall, John H., Woodland, Ga. Machine for sealing crate cushions. 1,715,809; June 4.
- Woodard, Alton C., Oneonta, N. Y. Adjustable damper device. 1,699,338; Jan. 15.
- Woodard, Everett H., Des Moines, Iowa. Game. 1,720,707; July 16.
- Woodard, Rodney D., assignor to Darlo Company, Boston, Mass. Washing apparatus. 1,699,867; Jan. 22.
- Woodard, William E., Forest Hills, N. Y. Locomotive truck and boiler device. 1,701,289; Feb. 5.
- Woodard, William E., Forest Hills, N. Y. Locomotive-frame structure. 1,704,272; Mar. 5.
- Woodard, William E., Forest Hills, N. Y. Truck-centering mechanism. 1,707,339; Apr. 2.
- Woodard, William E., Forest Hills, N. Y. Six-wheel truck. 1,714,581; May 28.
- Woodard, William E., Forest Hills, N. Y. Locomotive snowplow. 1,734,662; Nov. 5.
- Woodard, William E., Forest Hills, N. Y. Locomotive. 1,741,670; Dec. 31.
- Woodbridge, Charles K., New York, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Supporting device. 1,705,053; Mar. 12.
- Woodbridge, Joseph L., Philadelphia, Pa. Eyeleted terminal for flexible braided conductors and making same. 1,702,756; Feb. 19.
- Woodbridge, Richard G. (See Bradshaw, H., Nollan, and Woodbridge.)
- Woodcock, George A. N., Flushing, assignor to Petree & Dorr Engineers, Inc., New York, N. Y. Liquid-delivery apparatus. 1,726,094; Aug. 27.
- Woodcock, Reginald B. (See Bennion, L. H., and Woodcock.)
- Woodcock, Reginald B. (See Ricks, F., and Woodcock.)
- Woodcock, Reginald B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Hot-roll bottom-burnishing machine. 1,730,401; Oct. 8.
- Woodcock, Robert H., et al. (See Weichert, F. C., and Turnbull, assignors.)
- Woodcock, Willard J., Brooklyn, N. Y. Stoker. 1,736,564; Nov. 19.
- Woodcock, Willard J., Brooklyn, N. Y. Automatic stoker. 1,736,565; Nov. 19.
- Wooderson, Delbert C., Wallis, Tex. 1,714,536; May 28.
- Wooley, Grant. (See Dibsdaile, Thomas, assignor.)
- Woodford, Bronson C., assignor to The Murray Company, Dallas, Tex. Cotton-press-door control. 1,697,672; Jan. 1.
- Woodford, Bronson C., assignor to The Murray Company, Dallas, Tex. Air guard for suction fans. 1,719,255; July 2.
- Woodford, Bronson C., and J. Behle, assignors to The Murray Company, Dallas, Tex. Breast lifter for gins. 1,701,201; Feb. 5.
- Woodford, Joe C., Bryan, Ohio. Cut-off for air-service devices. 1,729,306; Sept. 24.
- Woodford, Watson H. (See Willis, S. L., and Woodford.)
- Woodford, Watson H., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Liquid-coating composition. 1,733,177; Oct. 29.
- Woodham, Alice E. (See Woodham, Harlow H., assignor.)
- Woodham, Harlow H., Santa Monica, assignor of one-half to A. E. Woodham, Los Angeles, Calif. Movable door strip. 1,716,097; June 4.
- Woodham, Raybon C., Montgomery, Ala. Safety and service valve. 1,698,616; Jan. 8.
- Woodhead, Horace G., assignor to B. F. Gump Co., Chicago, Ill. Proportional feeding machine. 1,703,465; Feb. 26.
- Woodhead, Peter. (See McGhee, T., and Woodhead.)
- Woodhouse, Gilbert M. (See Brownlie, J., and Woodhouse.)
- Woodhouse, Orange G., Syracuse, assignor to Intertype Corporation, New York, N. Y. Pump-action control for typographical machines. 1,722,876; July 30.
- Woodhull, Mark J. (See Ferris, W., and Woodhull.)
- Woodin, Carl A., Laurens, Iowa. Line guide for tractors. 1,718,511; June 25.
- Woodin, William H., jr., Plainfield, N. J. Stand for carboys. 1,710,757; Apr. 30.
- Wooding, Benjamin F., Montclair, N. J. Circuit controller. 1,718,724; June 25.
- Woodings, Emanuel, Oakmont, assignor to Woodings Forge and Tool Company, Verona, Pa. Forming creep checks. 1,706,273; Mar. 19.
- Woodings, Emanuel, Oakmont, assignor to Woodings Forge & Tool Company, Verona, Pa. Apparatus for forming anti-creep checks or rail anchors. 1,706,274; Mar. 19.
- Woodings, Emanuel, Oakmont, assignor to Woodings Forge & Tool Company, Verona, Pa. Apparatus for forming creep checks. 1,706,370; Mar. 19.
- Woodings Forge & Tool Company. (See Woodings, Emanuel, assignor.)
- Woodlands Limited. (See Chitty, C. W., and Kent-Jones, assignors.)
- Woodlands Limited. (See Kent-Jones, D. W., and Chitty, assignors.)
- Woodling, John W., and J. W. McFayden, Albion, Pa. Tire-chain-applying device. 1,713,360; May 14.
- Woodman, Edwin P., Arcadia, La. Oil supply. 1,705,845; Mar. 19.
- Woodman, Frank B. (See Hopkins, F. H., and Woodman.)
- Woodman, George A., assignor to Woodman Railway Supply Company, Chicago, Ill. Car-truck pedestal. 1,708,993; Apr. 16.
- Woodman, George A., assignor to Woodman Railway Supply Company, Chicago, Ill. Car journal box. 1,714,746; May 28.
- Woodman Railway Supply Company. (See Woodman, George A., assignor.)
- Woodman, Thomas C., Teddington, England, assignor to Celanese Corporation of America. Device for ironing clothes and other articles. 1,725,841; Aug. 27.
- Woodman, Thomas C., Teddington, and W. A. Dickie, Spondon, near Derby, England, assignors to Celanese Corporation of America. Fabric or material and the manufacture thereof. 1,716,255; June 4.
- Woodman, Walter S., Macclesfield, England, assignor to Meakin & Ridgway, Inc., New York, N. Y. Plate or similar article. Des. 79,777; Oct. 29.
- Woodman, William S., Lakewood, and J. O. Smith, Cleveland, Ohio. Removable head for metal containers. 1,706,471; Mar. 26.
- Woodmanse Manufacturing Company. (See Steenrod, George E., assignor.)
- Woodmansee, Hollis D. (See Woodmansee, John L. and H. D.)
- Woodmansee, John L., Buena Park, and H. D. Woodmansee, Ventura, Calif. Rotating collar. 1,699,087; Jan. 15.
- Woodroffe, John B., London, England. Electromagnetic reproducer for use with gramophone and the like records. 1,711,192; Apr. 30.
- Woodrow, Harry R., Brooklyn, N. Y., assignor to General Electric Company. Electrical distribution system. 1,703,131; Feb. 26.
- Woodrow, Oliver B., Newton, assignor to Woodrow Washing Machine Company, Pella, Iowa. Washing machine. 1,718,447; June 25.
- Woodrow Washing Machine Company. (See Gibson, George M., assignor.)
- Woodrow Washing Machine Company. (See Woodrow, Oliver B., assignor.)
- Woodruff, Albert E., Oak Park, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone transmitter. 1,724,160; Aug. 13.
- Woodruff, Eugene R., Cleveland, and V. K. Hoffner, East Cleveland, Ohio. Turntable. 1,703,978; Mar. 5.
- Woodruff, Harold O., Brownville, N. Y. Automobile headlight. 1,713,157; May 14.
- Woodruff, Isaac T., Portland, Oreg. Automatic stoking device. 1,710,134; Apr. 23.
- Woodruff, James E. (See Parsons, N. B., Woodruff, and Tibbals.)
- Woodruff, Leon A., Compton, assignor of one-half to M. L. Anderson, Aurora, Ill. Door hinge. 1,710,396; Apr. 23.
- Woodruff, William W., Ardmore, assignor to Strawbridge & Clothier, Philadelphia, Pa. Paper-folding device. 1,697,673; Jan. 1.
- Woodruff, William W., Swarthmore, R. L. Jenner, Germantown, Pa., and A. H. Reeves, Clinton, N. J., assignors to Blaw-Knox Company, Blawnox, Pa. Transmission tower. 1,705,104; Mar. 12.
- Woods, Donald E., and E. J. Neel, Borger, Tex., assignors to Oil-O-Treat Company. Treatment of crude petroleum oil. 1,715,217; May 28.
- Woods, Harold B., Arlington, Mass., assignor, by mesne assignments, to Consolidated Automatic Merchandising Corporation. Dispensing machine. 1,701,869; Feb. 12.
- Woods, John H., Hamilton, Ontario, Canada, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake cylinder. 1,727,386; Sept. 10.
- Woods, S. A., Machine Company. (See Blood, Laurence E., assignor.)
- Woods, Sophie L. (See Crawford, George S., assignor.)



- Woods, Sophie L. (See Welch, Albert G., assignor.)
- Woodsmall, Harry C. (See James, P. H., and Woodsmall.)
- Woodson, John O., New York, N. Y. Valve-controlling apparatus. 1,715,022; May 28.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,697,486; Jan. 1.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oven. 1,699,773; Jan. 22.
- Woodson, James C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Incased heater. 1,705,696; Mar. 19.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,705,697; Mar. 19.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electrically-heated oven. 1,705,698; Mar. 19.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Heat-treating furnace. 1,707,294; Apr. 2.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Seal for cyanide pots. 1,707,295; Apr. 2.
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Immersion heater. 1,709,645; Apr. 16.
- Woodson, Robert E., Webster Groves, Mo. Nut-shell remover. 1,728,194; Sept. 17.
- Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
- Woodstock Typewriter Company. (See Koca, J. F., and Behrens, assignors.)
- Woodstock Typewriter Company. (See Youngberg, Conrad D., assignor.)
- Woodstock Typewriter Company. (See Youngberg, C. D., and Rundblad, assignors.)
- Woodward, Allen H., Woodward, Ala. Locomotive watering apparatus. 1,722,349; July 30.
- Woodward, Alva W., assignor to The Firestone Steel Products Company, Akron, Ohio. Rim-collapsing tool. 1,718,621; June 25.
- Woodward, Alva W., and M. O. Kuhn, assignor to The Firestone Steel Products Company, Akron, Ohio. Die or punch mounting. 1,715,972; June 4.
- Woodward, Bernard. (See Webb, L. W., and Woodward.)
- Woodward, Frank N., Coal City, Ind. Repairing leaks in pipe lines. 1,737,181; Nov. 26.
- Woodward, Frank P. (See Rex, W. H., and Woodward.)
- Woodward, George H., Rochester, N. Y., assignor to J. A. Van den Heuvel, Washington, D. C. Wardrobe trunk. 1,725,947; Aug. 27.
- Woodward, Harold E., University City, Mo. Finishing printing plates. 1,724,741; Aug. 13.
- Woodward, Harold E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Trisazo dye and producing the same. 1,716,098; June 4.
- Woodward, Herbert S., Carbondale, Pa. Vibrating screen. 1,700,868; Feb. 5.
- Woodward, Horace L., Arlington Ridge, Va. Vehicle body and windshield construction. 1,715,402; June 4.
- Woodward, Horace L., Arlington Ridge, Va., assignor of one-fourth to E. S. Stillman, one-fourth to A. O. Wolff, and one-fourth to N. B. Blomgren, Brooklyn, N. Y. Piston ring. 1,700,190; Jan. 29.
- Woodward, Hubbard Company. (See Fancher, C. J., and Johnson, assignors.)
- Woodward, John A., Leetonia, and L. M. Greany, Cleveland, Ohio. Soap squeezer. 1,714,413; May 21.
- Woodward, John W., Lawrence, Mass., assignor by mesne assignments, to Saco-Lowell Shops. Controlling mechanisms for cotton-working machines. 1,709,646; Apr. 16.
- Woodward, Louis A., Zanesville, Ohio. Conveyor table for cross-roll mills. 1,738,340; Dec. 3.
- Woodward, Marion H., Brooklyn, assignor to The Western Union Telegraph Company, New York, N. Y. Telegraph system. 1,699,418; Jan. 15.
- Woodward, Roland W. (See Gammell, O. L., and Woodward.)
- Woodward & Wright Last Company. (See Wright, Louis F., assignor.)
- Woodworth, Charles O. (See Schockett, H. U., and Woodworth.)
- Woodworth, Roy V., assignor to Western Supplies Company, St. Louis, Mo. Marking and cementing machine. 1,713,246; May 14.
- Woodworth, Roy V., assignor to Western Supplies Co., St. Louis, Mo. Cutting die. 1,733,638; Oct. 29.
- Woodworth, William W., assignor to Hoague-Sprague Corporation, Lynn, Mass. Box-making machine. 1,715,585; June 4.
- Woodworth, William W., assignor to Hoague-Sprague Corporation, Lynn, Mass. Box-ending machine. 1,730,549; Oct. 8.
- Woody, Clyde C. (See Gurney, W. W., and Woody.)
- Woody, George A., U. S. Army, Philadelphia, Pa. Coupling. 1,707,422; Apr. 2.
- Wooldridge, Moses A., Wyaconda, Mo. Railroad grade crossing. 1,707,245; Apr. 2.
- Wooldridge, William I., New York, N. Y. Gear and wheel puller. 1,725,169; Aug. 20.
- Woolf, Frank H., Elgin, assignor to Savage Bros Co., Chicago, Ill. Coating machine. 1,734,103; Nov. 5.
- Woolf, J. W. & W. L. (See Cornwell, Lionel B., assignor.)
- Woolf, Lawrence E., White Plains, N. Y. License holder. 1,699,730; Jan. 22.
- Woolf, Lawrence E., White Plains, N. Y. License holder. 1,706,509; Mar. 26.
- Woollett, Percy W. (See Richardson, J. W., and Woollett.)
- Woolley, Bruce D., Johnston, Ohio. Permanent automobile service-chart reminder. 1,711,711; May 7.
- Woolley, Ernest L. (See Larkin, William H., jr., assignor.)
- Woolley, Henry S., assignor to The Bristol Company, Waterbury, Conn. Elbow fitting for measuring instruments. 1,713,315; May 14.
- Woolley, Joseph W. (See Lind, John E., assignor.)
- Woolley, Joseph W., Columbus, Ohio. Interviewer. 1,716,571; June 11.
- Woolman, Clinton V., Tacoma, Wash. Fireplace superheater. 1,706,337; Mar. 19.
- Woolnough, Albert E., St. Albans, N. Y. Toy animal. 1,736,687; Nov. 19.
- Woolsey, George A. (See Hare, Franklin C., assignor.)
- Woolson, Harry T., assignor to Chrysler Corporation, Detroit, Mich. Bearing. 1,705,630; Mar. 19.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,698,044; Jan. 8.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,701,550; Feb. 12.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,701,551; Feb. 12.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,701,599; Feb. 12.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,712,463; May 7.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,712,464; May 7.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,712,465; May 7.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,712,466; May 7.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,722,350; July 30.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,728,026; Sept. 10.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,728,027; Sept. 10.
- Woolway, George. (See Wilson, E. C., and Woolway.)
- Woolwine, George. (See Rose, B. E., and Woolwine.)
- Woolworth Chemical Company. (See Peacock, William, assignor.)
- Woonsocket Machine & Press Co. (See Martin, Fay H., assignor.)
- Wooster, Burton O., San Jose, Calif. Nail-stripping device. 1,705,435; Mar. 12.
- Worcester Knitting Co. (See Isabelle, Henry J., assignor.)
- Worcester, Richard H., Honolulu, and G. Duncan, Oiaa, Hawaii. Stake socket. 1,715,110; May 28.
- Worden, Robert, Lansing, Mich. Crank shaft. 1,735,707; Nov. 12.
- Wordingham, George, Milwaukee, Wis. Coat hanger. 1,741,750; Dec. 31.
- Work, Alvin E., Bronson, Mich. Plow attachment. 1,730,107; Oct. 1.
- Workman, Ellison E. (See Robinson, Edward A., assignor.)
- Workman, Ross A., Tulsa, Okla. Ventilating shutter. 1,706,338; Mar. 19.
- Workman, Ross A., Tulsa, Okla. Ventilating shutter. 1,711,215; Apr. 30.
- World Bestos Corporation. (See Heany, John A., assignor.)
- Worley, George I., deceased, Akron, Ohio; M. A. Worley, administratrix. Motor-vehicle truck. 1,738,490; Dec. 3.
- Worley, Myrtle A., administratrix. (See Worley, George I.)
- Worman, Nathan, Philadelphia, Pa. Cabinet-door mounting. 1,714,747; May 28.
- Worms, Jean P. (See Escaich, A., and Worms.)
- Worstaff, Richard A., Brighton, Iowa. Utility shovel. 1,741,004; Dec. 24.
- Woroshtzow, Nikolai, Berlin, Germany. Coloring organic fibers or articles such as skin, furs, paper, etc., consisting of animal and vegetable fibers. 1,719,159; July 2.
- Worrall, John H., Philadelphia, Pa., assignor to John Bromley & Sons, Incorporated. Lace. Des. 78,911; July 2.
- Worrall, Robert H., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Crystal calibrator harmonic selector and amplifier circuit. 1,696,933; Jan. 1.
- Worrell, Guy C., assignor to Westfield Nut Company, Westfield, Mass. Machine tool. 1,723,639; Aug. 6.
- Worrell, Paola P., Chester, Idaho. Airplane. 1,735,308; Nov. 12.
- Worrell, Temp J., and L. E. Clark, Memphis, Tex. Tire-repair tool. 1,708,346; Apr. 9.



- Worrest, Alfred H., Lancaster, Pa. Attachment for steering mechanism. 1,720,870; July 16.
- Worth Steel Company. (See Allison, Arthur E., assignor.)
- Worth, Thomas Bond, & Sons Limited. (See Walters, Frank, assignor.)
- Wortham, James G., Tullahoma, Tenn. Battery cable connector. 1,697,705; Jan. 1.
- Worthington, Charles C., Dunfield, N. J. Gang lawn mower. 1,712,722; May 14.
- Worthington, Everett, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, New York, N. Y. Radiocabinet or similar article. Des. 78,323; Apr. 16.
- Worthington, Everett, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radiocabinet or similar article. Des. 78,427; Apr. 30.
- Worthington, Everett, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radiocabinet or similar article. Des. 80,157; Dec. 17.
- Worthington, Harry L., San Francisco, Calif. Magnetic motor. 1,724,446; Aug. 13.
- Worthington, Lester S., assignor to C. L. Thompson, Casper, Wyo. Apparatus for combining natural gas and hydrocarbon oil for the production of gasoline. 1,700,556; Jan. 29.
- Worthington, Lester S., assignor to C. L. Thompson, Casper, Wyo. Combining natural gas and hydrocarbon oil for the production of gasoline. 1,705,348; Mar. 12.
- Worthington Pump and Machinery Corporation. (See Barnaby, James C., assignor.)
- Worthington Pump and Machinery Corporation. (See Barrett, Charles G., assignor.)
- Worthington Pump and Machinery Corporation. (See Bourne, Phillips P., assignor.)
- Worthington Pump and Machinery Corporation. (See Dugelay, Paul, assignor.)
- Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
- Worthington Pump and Machinery Corporation. (See Jorgensen, Olav E., assignor.)
- Worthington Pump and Machinery Corporation. (See Lawaczek, Franz, assignor.)
- Worthington Pump and Machinery Corporation. (See Lucke, Charles E., assignor.)
- Worthington Pump and Machinery Corporation. (See Riesner, Michael, assignor.)
- Worthington Pump and Machinery Corporation. (See Schumarty, William H., assignor.)
- Worthington Pump and Machinery Corporation. (See Spillmann, Max, assignor.)
- Worthington Pump and Machinery Corporation. (See Sturgess, J., and Haeblerlein, assignors.)
- Worthington, Roy L., Long Beach, Calif. Sliding-window structure. 1,704,453; Mar. 5.
- Worthington, Wayne H., Battle Creek, Mich. Preparing combustible mixtures for internal-combustion engines. 1,710,251; Apr. 23.
- Worthman, Harry L., Superior, Wis. Hasp. 1,712,319; May 7.
- Wortman, James E., Riedel, Mont. Filterer for lamps. 1,708,818; Apr. 9.
- Worton, Samuel G., Duquesne, Pa. Soaking-pit furnace. 1,724,058; Aug. 13.
- Woytych, Raymond M. (See Gallimore, K. F., and Woytych, Oscar J.)
- Wozasek, Oscar J. (See Guthrie, R. G., and Wozasek.)
- Woznack, Michael J., Los Angeles, assignor of one-half to S. Woznack, San Francisco, Calif. Dirigible headlight. 1,734,243; Nov. 5.
- Woznack, Stephen. (See Woznack, Michael J., assignor.)
- Wragg, Charles A., Washington, D. C. Aircraft. 1,733,928; Oct. 29.
- Wrap-Rite Corporation, The. (See Brownell, Charles O., assignor.)
- Wray, Charles F. (See Feldmeier, H., and Wray.)
- Wray, Frederick. (See L'Hollier, L. H., and Wray.)
- Wray, Frederick, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Shoe and making the same. 1,702,100; Feb. 12.
- Wray, Frederick, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber boot. 1,729,236; Sept. 24.
- Wray, Frederick, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber-soled shoe and making the same. 1,735,986; Nov. 19.
- Wray, Henry, Pawtucket, R. I., assignor to The Clark Thread Company, Newark, N. J. Thread-cutting device for skeining machines. 1,703,979; Mar. 5.
- Wray, Minnie, administratrix. (See Bashor, Emery E., assignor.)
- Wray, Orson W., Almena, Kans. Door latch. 1,708,819; Apr. 9.
- Wread, Spencer, F., Los Angeles, Calif. Door-latch-operating means. 1,735,914; Nov. 19.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to McKinney Manufacturing Company, Pittsburgh, Pa. Latch unit. 1,720,636; July 9.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to McKinney Manufacturing Company, Pittsburgh, Pa. Combined handle and latch, knob and cylinder, lock. 1,720,637; July 9.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to McKinney Manufacturing Company, Pittsburgh, Pa. Bolt-operating mechanism for locks and latches. 1,720,638; July 9.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to McKinney Manufacturing Company, Pittsburgh, Pa. Latch-bolt guide. 1,720,639; July 9.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to McKinney Manufacturing Company, Pittsburgh, Pa. Latch housing. 1,720,640; July 9.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to McKinney Manufacturing Company, Pittsburgh, Pa. Latch structure. 1,720,641; July 9.
- Wread, William E., Los Angeles, Calif., assignor, by mesne assignments, to McKinney Manufacturing Company, Pittsburgh, Pa. Night-latch unit. 1,720,642; July 9.
- Wren, Lawrence W. (See Brobeck, Edwin, assignor.)
- Wren, Russell L., Jefferson City, Mo. Attachment for toilets. 1,726,417; Aug. 27.
- Wren, William J., and N. M. Willet, said Willet assignor to Briggs Manufacturing Company, Detroit, Mich. Button-attaching device. 1,731,556; Oct. 15.
- Wright Aeronautical Corporation. (See Jones, Edward T., assignor.)
- Wright, Alan, London, England. Electrically-operated actuating device. 1,702,988; Feb. 19.
- Wright, Albert, Oakland, Calif. Gas compressor. 1,718,725; June 25.
- Wright, Anne, New York, N. Y. Garment. 1,703,808; Feb. 26.
- Wright, Arthur. (See Henry, V. S., Wright, and Young.)
- Wright, Arthur H. J. (See Commins, F. J., and Wright.)
- Wright, Carl J., West New Brighton, assignor, by mesne assignments, to Combustion Utilities Corporation, New York, N. Y. Process and apparatus for burning lime. 1,716,572; June 11.
- Wright, Carr W., Cincinnati, Ohio. Device for teaching arithmetic. 1,728,584; Sept. 17.
- Wright, Carr W., Cincinnati, Ohio. Toy baseball game. 1,741,596; Dec. 31.
- Wright, Charles B., Jersey City, assignor to Accelrite Manufacturing Co. Inc., Harrison, N. J. Accelerator pedal. 1,708,820; Apr. 9.
- Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making matches from sheet material. 1,718,994; July 2.
- Wright, Charles H., Brookline, Mass. Limited check. 1,723,640; Aug. 6.
- Wright, Charles P., et al. (See Whittaker, Earl J., assignor.)
- Wright, Charles V., Tamaqua, Pa. Internal-combustion engine. 1,707,153; Mar. 26.
- Wright, Clair G., Cartersville, Mo. Cooker. 1,717,296; June 11.
- Wright, Clarence, assignor to Wright Rubber Products Company, Racine, Wis. Pavement. 1,730,259; Oct. 1.
- Wright, Dallas E., assignor to The National Supply Company, Toledo, Ohio. Tackle block. 1,733,640; Oct. 29.
- Wright, Dallas V., Fort Lodge, Iowa. Bottle-dispensing and refrigerating apparatus. Re17,340; June 25.
- Wright, Daniel K., Paterson, N. J., assignor to General Electric Company. Apparatus for marking glass articles. 1,701,348; Feb. 5.
- Wright, David A., Tampa, Fla. Tobacco pipe. 1,710,850; Apr. 30.
- Wright, Earl P., Buffalo, N. Y. Metal sign. 1,717,866; June 18.
- Wright, Edwin M. (See Branson, W. J., and Wright.)
- Wright, Edwin M., assignor, by mesne assignments, to Robbins & Myers, Inc., Springfield, Ohio. Clutch. 1,714,748; May 28.
- Wright, Elmer H., Chicago, Ill. Electrical grounding device. 1,723,394; Aug. 6.
- Wright, Frank A., Westcliff-on-sea, England. Enabling light to penetrate foggy atmosphere. 1,742,116; Dec. 31.
- Wright, Frank F., Aurora, Ill. Metal-shearing attachment. 1,733,929; Oct. 29.
- Wright, Frank H. (See Moses, A. J., and Wright.)
- Wright, Frank R., and C. B. Reynolds, Nezperce, Idaho. Potato digger, cleaner, and loader. 1,715,218; May 28.
- Wright, Frederick E., Washington, D. C. Plotting board. 1,705,951; Mar. 19.
- Wright, Frederick E., Washington, D. C., assignor to Secretary of War and his successors in office in trust for the Government of the United States. Observation instrument. 1,699,827; Jan. 22.
- Wright, George M., Chesterfield, England, assignor to Radio Corporation of America. Receiving radiosignals. 1,712,061; May 7.
- Wright, George M., Chesterfield, and L. D. Hill, London, England, assignors to Radio Corporation of America. Wireless receiving system. 1,724,246; Aug. 13.
- Wright, George M., Chesterfield, and R. N. Vyvyan, Hampstead, London, England, assignors to Radio Corporation of America. Variable illuminant. 1,737,288; Nov. 26.
- Wright, George M., S. B. Smith, and N. E. Davis, Chelmsford, England, assignors to Radio Corporation of America. Picture telegraphy. 1,740,490; Dec. 24.
- Wright, George W. (See Fairbairn, M. L., and Wright.)
- Wright, Glenn C., Cato, N. Y. Ice-cutting machine. 1,709,422; Apr. 16.
- Wright, Hattie M., and E. Reed, Des Moines, Iowa. Bootie. Des. 79,345; Sept. 3.
- Wright, Henry H. (See Tunstall, W. B., and Wright.)



- Wright, Herbert E., Melrose, Mass., assignor, by mesne assignments, to Cherry-Burrell Corporation, Chicago, Ill. Centrifugal pump. 1,697,487; Jan. 1.
- Wright, J. T., Company, The. (See Wright, Joseph T., assignor.)
- Wright, Jacob H., Oakland, assignor to Western Sulphur Company, Inc., San Francisco, Calif. Portable plant-dusting machine. 1,724,986; Aug. 20.
- Wright, James A., Montreal, Quebec, Canada. Motor chassis. 1,697,099; Jan. 1.
- Wright, James A., Montreal, Quebec, Canada. Front-axle assembly. 1,706,556; Mar. 26.
- Wright, James A., Montreal, Quebec, Canada. Rear-axle assembly. 1,708,248; Apr. 9.
- Wright, James A., Montreal, Quebec, Canada. Front-axle assembly. 1,711,216; Apr. 30.
- Wright, James A., Montreal, Quebec, Canada. Motor chassis. 1,711,765; May 7.
- Wright, James A., Montreal, Quebec, Canada. Rear-axle assembly. 1,712,540; May 14.
- Wright, James A., Montreal, Quebec, Canada. Spring suspension. 1,716,716; June 11.
- Wright, James A., Montreal, Quebec, Canada. Front-axle assembly. 1,716,717; June 11.
- Wright, James A., Montreal, Quebec, Canada. Motor chassis. 1,717,867; June 18.
- Wright, James A., Montreal, Quebec, Canada. Steering mechanism. 1,723,557; Aug. 6.
- Wright, James A., Montreal, Quebec, Canada. Variable-speed transmission and brake mechanism. 1,724,388; Aug. 13.
- Wright, James A., Montreal, Quebec, Canada. Electric motor truck. 1,728,847; Sept. 17.
- Wright, James A., Montreal, Quebec, Canada. Chassis frame. 1,730,598; Oct. 8.
- Wright, James A., Montreal, Quebec, Canada. Tramway truck. 1,731,961; Oct. 15.
- Wright, James A., Montreal, Quebec, Canada. Rear-axle assembly. 1,731,962; Oct. 15.
- Wright, James A., Montreal, Quebec, Canada. Rear-axle assembly. 1,733,042; Oct. 22.
- Wright, James A., Montreal, Quebec, Canada. Front-axle assembly. 1,735,708; Nov. 12.
- Wright, James A., Montreal, Quebec, Canada. Vehicle construction. 1,739,535; Dec. 17.
- Wright, James A., Montreal, Quebec, Canada. Rear-axle assembly. 1,741,550; Dec. 31.
- Wright, James E., Los Angeles, Calif. Swimming or surf boat. 1,709,050; Apr. 16.
- Wright, James E., Los Angeles, Calif. Highway vehicle. 1,731,557; Oct. 15.
- Wright, James E., Los Angeles, Calif. Steering apparatus. 1,731,558; Oct. 15.
- Wright, James R., Denver, Colo. Deslimmer and classifier. 1,720,810; July 16.
- Wright, James W., assignor to E. A. Early, Eureka, Calif. Bill file. 1,736,384; Nov. 19.
- Wright, Jesse C., Huntington Park, and L. F. Bonney, Los Angeles, Calif., assignors to Wieman, Kammerer, Wright Co., Inc. Well-drilling bit. 1,706,275; Mar. 19.
- Wright, John W., assignor to one-half to P. M. Snider, Puyallup, Wash. Egg opener. 1,705,950; Mar. 19.
- Wright, John W., Philadelphia, Pa., assignor to American Telephone and Telegraph Company. Wire-splicing machine. 1,712,541; May 14.
- Wright, Joseph T., assignor to The J. T. Wright Company, Cincinnati, Ohio. Lubricating perforator presses. 1,734,024; Oct. 29.
- Wright, Kirk K., Kenmore, N. Y. Washer. 1,697,394; Jan. 8.
- Wright, Kirk K., Buffalo, N. Y. Feed mechanism. 1,703,466; Feb. 26.
- Wright, Kirk K., Buffalo, N. Y. Filter. 1,710,758; Apr. 30.
- Wright, L. T., et al. (See Laidlaw, Robert A., assignor.)
- Wright, Lawrence L., Pittsburgh, Pa. Swimming garment and life preserver. 1,731,695; Oct. 15.
- Wright, Louis F., assignor to Woodard & Wright Last Company, Brockton, Mass. Shoe form. 1,714,997; May 28.
- Wright, Newt. E., Coalwood, Ky. Milk-can cover and support. 1,740,384; Dec. 17.
- Wright, Owen S., Berkeley, Calif. Lock. 1,722,728; July 30.
- Wright, Parvin. (See Gerrard, A. J. and Wright.)
- Wright, Raymond, and E. B. Kellogg, Porterville, Calif. Self-serving store. 1,718,512; June 25.
- Wright, Richard E., Cape Town, Cape of Good Hope, South Africa. Pencil sharpener. 1,707,890; Apr. 2.
- Wright, Robert L., deceased, Los Angeles, Calif.; W. C. Wright, administratrix. Land, water, and air vehicle. 1,711,629; May 7.
- Wright, Ross T., Los Angeles, Calif. Water-deflecting means for distributors and the like. 1,706,764; Mar. 26.
- Wright Rubber Products Company. (See Wright, Clarence, assignor.)
- Wright, Samson D., Cleveland Heights, Ohio. Coke-quenching car platform. 1,713,730; May 21.
- Wright, Stanley M., and A. D. McGill, Denver, Colo. Fish lure. Des. 79,681; Oct. 22.
- Wright, Sumner B. (See Herman, J. and Wright.)
- Wright, Sumner B., East Orange, N. J., assignor to American Telephone and Telegraph Company. Echo suppressor. 1,706,472; Mar. 26.
- Wright, Sumner B., East Orange, N. J., assignor to American Telephone and Telegraph Company. Two-way transmission with repeaters. 1,734,104; Nov. 5.
- Wright Tool & Forge Company, The. (See McWethy, George E., assignor.)
- Wright, Virgil, assignor of one-third to A. High, Dallas, Tex. Machine for cutting gaskets. 1,740,530; Dec. 24.
- Wright, Wallace C., Brookfield, N. H., assignor to Harding-Walcott Company, Salem, Mass. Weighting machine. 1,708,858; Apr. 9.
- Wright, Wallace C., Brookfield, N. H., assignor to Harding Engineering Company, East Boston, Mass. Slicking machine. 1,740,434; Dec. 17.
- Wright, Wallace T., Quincy, Ill. Stabilizer for steering wheels. 1,701,434; Feb. 5.
- Wright, Walter. (See Mooney, D. A., and Jaeger, assignors.)
- Wright, Walter, Jenkintown, and O. Jaeger, Elkins Park, Pa. Clothes wringer. 1,707,835; Apr. 2.
- Wright, Walter L., Santa Monica, Calif. Optical system. 1,730,712; Oct. 8.
- Wright, Warren C., and A. B. Cocherell, Chicago, Ill.; said Cocherell assignor to said Wright. Valve device. 1,713,636; May 21.
- Wright, Wilbur L., Fulton, N. Y. Capping milk bottles and other containers. 1,711,337; Apr. 30.
- Wright, Wilbur L., Fulton, N. Y. Production of split-up pull-tab closure disks. 1,733,708; Oct. 29.
- Wright, Wilbur L., assignor to Oswego Falls Corporation, Fulton, N. Y. Method of and apparatus for producing paper-material closure disks. 1,707,107; Mar. 26.
- Wright, Wilbur L., assignor to Oswego Falls Corporation, Fulton, N. Y. Refrigerating shipping package. 1,707,836; Apr. 2.
- Wright, Wilbur L., assignor to Oswego Falls Corporation, Fulton, N. Y. Bottle-closure disk. 1,707,837; Apr. 2.
- Wright, Wilbur L., assignor to Oswego Falls Corporation, Fulton, N. Y. Paper hood cap and the production thereof. 1,709,511; Apr. 16.
- Wright, Wilbur L., assignor, to Oswego Falls Corporation, Fulton, N. Y. Paper material and hood cover embodying the same. 1,728,709; Sept. 17.
- Wright, Wilbur L., Fulton, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y. Waxlike product and producing the same. 1,738,630; Dec. 10.
- Wright, Wilbur L., assignor to Oswego Falls Corporation, Fulton, N. Y. Tapered paper container. 1,740,966; Dec. 24.
- Wright, Wilbur L., Fulton, and J. T. Bond, Phoenix, assignors to Oswego Falls Corporation, Fulton, N. Y. Apparatus for making paper containers. 1,706,910; Mar. 26.
- Wright, Wilbur L., Fulton, and J. T. Bond, Phoenix, assignors to Oswego Falls Corporation, Fulton, N. Y. Paper container. 1,731,916; Oct. 15.
- Wright, William. (See Bernbaum, J. W., and Wright.)
- Wright, William, assignor to Oklahoma Iron Works, Tulsa, Okla. Tubing support. 1,708,645; Apr. 9.
- Wright, William, assignor to Oklahoma Iron Works, Tulsa, Okla. Tackle block. 1,713,586; May 21.
- Wright, William, assignor to Oklahoma Iron Works, Tulsa, Okla. Tackle block. 1,713,587; May 21.
- Wright, William, Chicago, assignor to E. P. Smith, Springfield, Ill. Brake-gear mounting. 1,715,023; May 28.
- Wright, William, Chicago, assignor to E. P. Smith, Springfield, Ill. Supporting means for air lines. 1,718,912; June 25.
- Wright, William J., Baltimore, Md. Book-identification device. 1,698,663; Jan. 8.
- Wright, William L., Norfolk, Va., and G. W. Warner, Kingsport, Tenn., assignors to The American Rolling Mill Company, Middletown, Ohio. Mud flume. 1,706,432; Mar. 26.
- Wright, Wille C., administratrix. (See Wright, Robert L.)
- Wrighton, William J., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,720,811; July 16.
- Wrighton, William J., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 1,721,170; July 16.
- Wright's Automatic Tobacco Packing Machine Company. (See Fischer, Louis, assignor.)
- Wrightson, Samuel S., and C. R. Matthews, Albert Hill, England. Fishplate for railways or tramways. 1,735,194; Nov. 12.
- Wrightsville Hardware Company. (See Filbey, John W., assignor.)
- Wrigley, Wm., Jr. Company. (See Ranney, Willet B., assignor.)
- Writer, Victor P., New York, N. Y. Tam-pressing machine. 1,725,500; Aug. 20.
- Wrobley, Matthew B., Denver, Colo. Tuning device for radiocircuits. 1,697,967; Jan. 8.
- Wrought Iron Range Company. (See Sullivan, John M., assignor.)
- Wubco Battery Corporation. (See Aldrich, Herbert H., assignor.)
- Wuckel, Günter, Karlshorst-Berlin, Germany, assignor to General Electric Company. Cable circuits. 1,706,339; Mar. 19.
- Wuelker, William E., San Francisco, Calif. Making reflectors. 1,697,216; Jan. 1.
- Wuenen, Edward, assignor to The Dearborn Company, Chicago, Ill. Card table. Des. 80,208; Dec. 24.
- Wuerfel, William, assignor to Wilkening Manufacturing Co., Philadelphia, Pa. Piston ring. 1,707,035; Mar. 26.
- Wuesthoff, Maximilian W., Los Angeles, Calif. Shower bath fixture. 1,724,161; Aug. 13.



- Wuesthoff, Maximilian W., assignor to E. T. Foukles, San Francisco, Calif. Shower-bath fixture. 1,733,521; Oct. 29.
- Wuischpard, Alphonse. (See Schwab, M. E. and Wuischpard.)
- Wulff, John F. (See Tournier, E. P., and Wulff.)
- Wulff, John P., Chicago, Ill. Water-glass guard. 1,723,454; Aug. 6.
- Wulff, Robert G. (See Coberly, C. J., Wulff, and Holland.)
- Wulle, William A., assignor to The Pyle-National Company, Chicago, Ill. Quick-opening switch. 1,730,599; Oct. 8.
- Wulle, William A., assignor to The Pyle-National Company, Chicago, Ill. Lamp socket and grip. 1,738,341; Dec. 3.
- Wullenweber, Ernest A., Melrose, assignor to Hood Rubber Company, Watertown, Mass. Tire. Des. 72,245; Apr. 9.
- Wunderlich, Adolph, Cleveland Heights, assignor to The Warren Refining and Chemical Company, Cleveland, Ohio. Lubricant-transferring device. 1,710,759; Apr. 30.
- Wunderlich, Adolph, Cleveland Heights, assignor to The Warren Refining and Chemical Company, Cleveland, Ohio. Device for transferring lubricants and the like. 1,711,193; Apr. 30.
- Wunderlich, Albert M. (See Carmichael, A. J., and Wunderlich.)
- Wunderlich, Henry, St. Paul, Minn. Shopping bag. 1,729,318; Sept. 24.
- Wünsch, Erich P. G., Steglitz, near Berlin, assignor to Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Apparatus for regulating the gas mixture in gas-fired-furnace installations. 1,712,128; May 7.
- Wünsch, Erich P. G., Steglitz, near Berlin, assignor to Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Apparatus for measuring the quantity of steam, gas, air, water, or like medium flowing through a pipe. 1,726,463; Aug. 27.
- Wünsch, Erich P. G., Steglitz, near Berlin, assignor to Askania-Werke A.-G. vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Lateral-reading compass. 1,737,487; Nov. 26.
- Wünsch, Guido, Steglitz, near Berlin, assignor to Askania-Werke Aktiengesellschaft vormals Central-Friedenau, werkstatt Dessau und Carl Bamberg-Friedenau, Berlin, Germany. Apparatus for regulating combustion. 1,721,900; July 23.
- Wünsch, Guido, Steglitz, near Berlin, assignor to Askania-Werke A.-G. vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Berlin-Friedenau, Germany. Steering indicator for aircraft. 1,729,850; Oct. 1.
- Wurdack, Arthur, Normandy, Mo. Chair. 1,740,214; Dec. 17.
- Wurdack, William, assignor to Wm. Wurdack Electric Mfg. Co., St. Louis, Mo. Electric panel board. 1,715,659; June 4.
- Wurdack, Wm., Electric Mfg. Co. (See Wurdack, William, assignor.)
- Würgler, Jakob. (See Mayer, B. and Würgler.)
- Wurm, Henry G., Glen Ridge, assignor to R. Neumann & Company, Hoboken, N. J. Leather or similar article. Des. 77,955; Mar. 12.
- Wurst, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radiocircuits. 1,697,943; Jan. 8.
- Wurst, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Coupling circuits. 1,702,068; Feb. 12.
- Wurst, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for two-way telephony. 1,712,062; May 7.
- Wurst, Walter, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Method of and arrangement for multiplex telephony. 1,721,492; July 16.
- Wurster, Oscar H., Chicago, Ill. Process and apparatus for making soap powder. 1,732,454; Oct. 22.
- Wurster, Oscar H., Chicago, Ill. Apparatus for treating soap. 1,733,213; Oct. 29.
- Wurster, Oscar H., Chicago, Ill. Spraying apparatus. 1,740,759; Dec. 24.
- Wurtenberg, Charles, Union City, Conn. Bread slicer. 1,708,821; Apr. 9.
- Würtenberger, Richard. (See Treusch, A., and Würtenberger.)
- Wurzbach, Hugh E., and L. H. Wadsworth, Magna, assignors to The Selector Corporation, Salt Lake City, Utah. Method and apparatus for selecting checks. 1,732,826; Oct. 22.
- Wurzelow, Calvin, Houma, La. Garbage receptacle. 1,728,710; Sept. 17.
- Wüst, Fritz, Dusseldorf, Germany. Purifying pig iron. 1,730,960; Oct. 8.
- Wüstenhöfer, Julius, Dortmund, Germany. Miner's stay. 1,736,301; Nov. 19.
- Wuthrich, Frederic, assignor to A.-G. Kummier & Matter, Aarau, Switzerland. Electrically-operated fluid heater. 1,726,789; Sept. 3.
- Wyant, George G., et al. (See Linsley, Douglas F., assignor.)
- Wyant, George L., Crutwell, Saskatchewan, Canada. Cattle guard. 1,718,514; June 25.
- Wyant, Leroy, Chicago, Ill. Mechanism for controlling railway switches. 1,700,011; Jan. 22.
- Wyatt, De Witt H., Columbus, assignor to Frigidaire Corporation, Dayton, Ohio. Faucet for water coolers or the like. Des. 80,005; Nov. 26.
- Wyatt, De Witt H., Columbus, assignor to Frigidaire Corporation, Dayton, Ohio. Combined bubbler and drain basin for water coolers or the like. Des. 80,006; Nov. 26.
- Wyatt, Francis D., Cincinnati, Ohio. Switchboard signal-light socket and resistance. 1,731,329; Oct. 15.
- Wyckor, John. (See Skowron, Walter, assignor.)
- Wyckoff, Munro, Seattle, Wash. Ditch guard. 1,699,828; Jan. 22.
- Wyckoff, Edward A. (See Donovan, Margaret, assignor.)
- Wyckoff, Paul V. (See Brummer, Fred, assignor.)
- Wydler, Hermann, Bern, assignor to the firm of Sauser S. A., Soleure, Switzerland. Controlling device for starting and determining the quantities to be delivered by a liquid-raising apparatus placed at some distance from said device. 1,712,189; May 7.
- Wydom, Herbert H., Boston, assignor to Hood Rubber Company, Inc., Watertown, Mass. Combined sole and heel. Des. 80,001; Nov. 26.
- Wydra, Frank S. (See Gilroy, James J., assignor.)
- Wygodsky, Leon, Baltimore, Md. Lubricating cylinders of reciprocating engines, compressors, pumps, etc. 1,739,024; Dec. 10.
- Wygonik, Edward A., Natrona, Pa. Bottle cap. 1,715,882; June 4.
- Wykes, Hunter. (See Chouinard, Oscar, assignor.)
- Wykes, Thomas E., jr., Grand Rapids, Mich. Card holder. 1,728,741; Sept. 17.
- Wyland, John W., San Gabriel, Calif. Egg tester. 1,728,462; Sept. 17.
- Wyland, John W., San Gabriel, Calif. Egg-sizing machine by weight. 1,728,463; Sept. 17.
- Wyer, Joseph A., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive. 1,720,459; July 9.
- Wyllie, Hamilton N., Coventry, assignor to Sir W. G. Armstrong Whitworth Aircraft Limited, Parkside, Coventry, England. Metal spar for use on aircraft. 1,708,994; Apr. 16.
- Wyllie, John R. (See Andrews, D. S., and Wyllie.)
- Wyllie, John R., New Canaan, Conn., assignor to Andrews Crane Corporation, New York, N. Y. Hand lift-platform truck. 1,739,999; Dec. 17.
- Wyllie, John S., Newark, N. J. Sorting machine. 1,716,677; June 11.
- Wyman, Charles A., Auburn, Wash. Mole trap. 1,729,976; Oct. 1.
- Wyman, Charles E., Pekin, Ind. Grain separator. 1,720,618; July 9.
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Interlocking mechanism. 1,702,458; Feb. 19.
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Electrical resistance device. 1,703,809; Feb. 26.
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 1,704,233; Mar. 5.
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Electric controller. 1,718,269; June 25.
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Fastening means. 1,718,270; June 25.
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,718,513; June 25.
- Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Illuminating device. 1,730,836; Oct. 8.
- Wyman, Emma, executrix. (See Wyman, William H.)
- Wyman-Gordon Company. (See Damerell, Mark H., assignor.)
- Wyman-Gordon Company. (See Larcher, Albert J., assignor.)
- Wyman-Gordon Company. (See Stoddard, Harry G., assignor.)
- Wyman-Gordon Company. (See Wilson, Lewis A., assignor.)
- Wyman, William H., deceased; E. Wyman, executrix, assignor of one-half to Pine-Ihrig Machine Co., Oshkosh, Wis. Transmission gearing. 1,733,290; Oct. 29.
- Wynn, Perry D. (See White, R. V., and Wynn.)
- Wyss, Emil A., assignor of one-third to N. Medofsky and one-third to E. Hecker, Bern, Switzerland. Suspension device. 1,736,240; Nov. 19.
- Wyss, Ernst, administrator. (See Müller, August.)
- Wyss, Fritz, assignor to the firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Driving device for paper machines. 1,709,296; Apr. 16.
- Wytcherley, Edward, Peoria, Ill. Sand-blast device. 1,712,804; May 14.
- Xardell, Charles A., Utica, N. Y. Electric heater. 1,733,145; Oct. 29.
- Xippas, Socrates A., Buffalo, N. Y. Decorated electric fan. 1,708,197; Apr. 9.
- Xippas, Socrates A., Buffalo, N. Y. Vertical electric fan. 1,723,227; Aug. 6.
- Yablick, Max, Newark, N. J., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Case for gas masks and canisters. 1,699,937; Jan. 22.



- Yablick, Max, New York, N. Y., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Indicating gas-mask canister. 1,725,893; Aug. 27.
- Yabuta, Teijiro, Setagaya-Machi, Ebura-Gori, assignor to Zaidan Hojin Rikagaku Kenkyujo, Tokyo, Japan. Preparing maleic and succinic acid from furfural by electrolysis. 1,709,297; Apr. 16.
- Yacker, Max. (See Feldman, P. and Yacker.)
- Yackley, Julius, Spokane, Wash. Rotary harrow. 1,719,578; July 2.
- Yadon, Marshall E., assignor to The Moore Press, Inc., New York, N. Y. Catalog cover. Des. 78,679; May 28.
- Yager, George F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Chuck for bushings. 1,734,989; Nov. 12.
- Yagerphone Limited. (See Casbon, William, assignor.)
- Yaggi, Lawrence E., East Cleveland, Ohio. Device for practicing golf strokes. 1,733,767; Oct. 29.
- Yale & Towne Manufacturing Company, The. (See Brauning, Karl A., assignor.)
- Yale & Towne Manufacturing Company, The. (See Heyer, Frederic K., assignor.)
- Yale & Towne Manufacturing Company, The. (See Jackson, Arthur C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Lach, Joseph S., assignor.)
- Yale and Towne Manufacturing Company, The. (See Menzel, Edmund R., assignor.)
- Yale & Towne Manufacturing Company, The. (See Potter, Robert S., assignor.)
- Yale & Towne Manufacturing Company, The. (See Soley, Frank, assignor.)
- Yale & Towne Manufacturing Company, The. (See Thompson, Frank E., assignor.)
- Yale & Towne Manufacturing Company, The. (See Wilder, George W., assignor.)
- Yamada, Ginjiro. (See Noguchi, Tadashi, assignor.)
- Yamada, Saburo, San Francisco, Calif. Roaster for chestnuts and the like. 1,730,550; Oct. 8.
- Yamakishi, Tomoji, Bellevue, Wash. Automatic railroad switch. 1,700,249; Jan. 29.
- Yamamoto, Hatsunosuke, Hiroshima-Shi, Hiroshima-Ken, Japan. Oil separator. 1,726,688; Sept. 3.
- Yamamoto, Sakao, Tokyo, Japan. Apparatus for recovering volatile oils from mixed gas. 1,710,284; Apr. 23.
- Yamamoto, Sakao, Tokyo, Japan. Apparatus for recovering volatile oils from gases containing the same. 1,710,285; Apr. 23.
- Yamanouchi, Genkichi, Tokyo, Japan. Navigating machine. 1,736,896; Nov. 26.
- Yamazaki, Kunpei, Tokio-Fu, Japan, assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,718,448; June 25.
- Yancey, Arthur, New Orleans, La., assignor to Squeeze Ezy Mop Co., Inc. Combined mop and wringer. 1,739,704; Dec. 17.
- Yancey, John P. T., Greensboro, N. C. Badge. Des. 78,995; July 16.
- Yancey, Thornton M., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for unwinding strand material. 1,734,703; Nov. 5.
- Yancey, Thornton M., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for unwinding strand material. 1,734,704; Nov. 5.
- Yancey, Thornton M., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for unwinding strand material. 1,734,705; Nov. 5.
- Yankoff, Peter D., Fort Smith, Ark. Lighting motometer. 1,708,347; Apr. 9.
- Yannes, Stephen E., Nuremberg, Pa. Power-driven tool. 1,721,612; July 23.
- Yannetta, Peter, Waterbury, Conn. Line clamp. 1,705,167; Mar. 12.
- Yanochowski, George A. (See Sauer, L. B., and Yanochowski.)
- Yanochowski, George A., La Grange, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Switch. 1,708,039; Apr. 9.
- Yanss, George W., Adrian, Mich., assignor to American Chain Company, Inc. Automobile bumper bracket. 1,702,069; Feb. 12.
- Yanss, George W., Bridgeport, Conn., assignor to American Chain Company, Inc. Bumper. 1,703,700; Feb. 26.
- Yanss, George W., Bridgeport, Conn., assignor to American Chain Company, Inc. Rear-fender guard. 1,723,832; Aug. 6.
- Yard, Willis S. (See Morgen, R. A., Yard, and Rosenstein.)
- Yard, Willis S., and E. N. Percy, Oakland, Calif. Electro-thermal gas producer. 1,703,505; Feb. 26.
- Yard, Willis S., and E. N. Percy, San Francisco, Calif. Continuous oil-gas process. 1,703,506; Feb. 26.
- Yardley Screen and Weather Strip Co., The. (See Rosel, William E., assignor.)
- Yardley, Walter G., Palmerston North, New Zealand. Head lamps of motor vehicles. 1,709,423; Apr. 16.
- Yarian, James L., Syracuse, N. Y. Steering-gear construction. 1,726,971; Sept. 3.
- Yarn, Clarence G., Des Moines, Iowa. Clean-out system for dairy barns and the like. 1,699,175; Jan. 15.
- Yarnall, Vere S., Brockton, assignor to Ames Shovel & Tool Company, Boston, Mass. Shovel handle. 1,697,895; Jan. 8.
- Yarnall, Vere S., Brockton, assignor to Ames Shovel & Tool Company, Boston, Mass. Handle for shovels. 1,728,320; Sept. 17.
- Yarnall-Waring Company. (See Binz, Gustat A. H., assignor.)
- Yarnall-Waring Company. (See Heaton, Herman C., assignor.)
- Yarrow, Harold E., Glasgow, Scotland. Superheat control for water-tube boilers. 1,723,905; Aug. 6.
- Yassenoff, Isidor, Detroit, Mich. Engine shaft. 1,726,875; Sept. 3.
- Yater, John, assignor of one-half to H. and E. Streamas, Shandon, Ohio. Twin comb section. 1,722,169; July 23.
- Yates-American Machine Company. (See Lane, Franklin L., assignor.)
- Yates-American Machine Company. (See Turcott, David, assignor.)
- Yates, Arthur E., Flintstone, assignor to Crystal Springs Bleachery Co., Chickamauga, Ga. Trimming mechanism. 1,727,850; Sept. 10.
- Yates, Arthur T., Gardenville, assignor to Buffalo Forge Company, Buffalo, N. Y. Bending bars and the like. 1,697,896; Jan. 8.
- Yates, De Witt E., assignor to American Steam Pump Company, Battle Creek, Mich. High-speed fire-pump attachment for automobile. 1,712,190; May 7.
- Yates, George, Detroit, Mich., assignor of one-half to P. Grant. Magnetic sharpener for razor blades and the like. 1,710,760; Apr. 30.
- Yates, Harry A. (See Todd, P. A. S., and Yates.)
- Yates, Harry J., et al. (See Dolphin, James, assignor.)
- Yates, Raymond F., Bronx, N. Y., assignor, by mesne assignments, to T. Deutschmann, trustee. Electrodynamically-controlled figure. 1,726,283; Aug. 27.
- Yates, William H., New York, N. Y. Electric-lamp fixture. 1,741,965; Dec. 31.
- Yawman & Erbe Manufacturing Co. (See Schaffert, Adolf H., assignor.)
- Yawman & Erbe Manufacturing Co. (See Schulz, George W., assignor.)
- Yaxley, Ernest E., deceased, Chicago, Ill.; L. C. Yaxley, administratrix. Electromagnet. 1,714,336; May 21.
- Yaxley, Leona C., administratrix. (See Yaxley, Ernest E.)
- Ybry, Inc. (See Levy, Abraham, assignor.)
- Yeager, Edgar O., Coraki, and R. H. York, Swan Bay, New South Wales, Australia. Multiple-disk-type talking machine. 1,727,263; Sept. 3.
- Yeager, Fay A., assignor to J. R. M. Knudsen, Muskegon, Mich. Window construction. Re17,496; Nov. 19.
- Yeager, Paul, Muskegon, Mich. Tool. 1,714,337; May 21.
- Yeager, Roy V., Des Moines, Iowa. Screed anchoring and leveling device. 1,699,557; Jan. 22.
- Yeager, Roy V., Des Moines, Iowa. Structural building joist. 1,725,501; Aug. 20.
- Yeager, Roy V., Des Moines, Iowa. Structural floor. 1,734,358; Nov. 5.
- Yeager, Roy V., Des Moines, Iowa. Structural floor. 1,734,359; Nov. 5.
- Yeagan, Hillary F., Rome, Ga. Pneumatic cotton-gin doffing outfit. 1,716,099; June 4.
- Yeaton, George A., assignor of one-half to W. Esalhorst, Aberdeen, Wash. Choker hook. 1,720,069; July 9.
- Yeaton, Stephen O., Beverly, and M. W. White, Lynn, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Edge-finishing machine. 1,697,256; Jan. 1.
- Yehlen, Henry O., assignor to Victor Linen & Towel Service Company, St. Louis, Mo. Dispensing device for towels and the like. 1,697,038; Jan. 1.
- Yellow Coach Manufacturing Company. (See Schjolin, Erik O., assignor.)
- Yellow Jack-it Manufacturing Co. (See Perkins, Lester, assignor.)
- Yellow Taxi Corp. (See McMahon, John F., assignor.)
- Yellow Truck & Coach Manufacturing Company. (See Bock, Carl J., assignor.)
- Yelmgren, Sven A., Galesburg, Ill. Catch bowl for oil trucks, oil pumps, and pipe lines. 1,714,338; May 21.
- Yenall, Lawrence T., Jefferson, Pa. Miner's battery holder. 1,713,413; May 14.
- Yeo, Edward J., Pearl River, N. Y. Carburetor. 1,701,600; Feb. 12.
- Yeomans Concrete Tie, Inc. (See Yeomans, Wallace C., assignor.)
- Yeomans, Wallace C., Portland, Oreg., assignor to Yeomans Concrete Tie, Inc. Railway tie. 1,700,963; Feb. 5.
- Yeomans, Wallace C., Portland, Oreg., assignor to Yeomans Concrete Tie, Inc. Railway tie. 1,718,098; June 18.
- Yepsen, Ray C., assignor to Briggs Manufacturing Company, Detroit, Mich. Conveyor dog. 1,702,884; Feb. 19.
- Yerby, Gordon S., and J. F. Hewitt, Portland, Oreg. Vehicle screen. 1,736,688; Nov. 19.
- Yerges, Amelia N., executrix. (See Yerges, Frank L.)
- Yerges, Frank L., deceased; A. N. Yerges, executrix, assignor to The Yerges Manufacturing Company, Fremont, Ohio. Buffing operation. 1,728,585; Sept. 17.
- Yerges Manufacturing Company, The. (See Yerges, Frank L., assignor.)
- Yerges Manufacturing Company, The. (See Zimmerman, Harry, assignor.)
- Yerk, Henry H., and W. J. Baumberger, Davenport, assignors to Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,730,551; Oct. 8.



- Yerkes, Gabrielle M. P., Brooklyn, N. Y. Brassière. 1,702,922; Feb. 19.
- Yerkes, John A., Long Beach, Calif. Apparatus for heating oil. 1,712,101; May 7.
- Yerkes, John A., Long Beach, Calif. Oil-well apparatus. 1,726,052; Aug. 27.
- Yerkes, John A., and R. H. Lemmon, Long Beach, Calif. Compensating packing for inserted pumps. 1,713,808; May 21.
- Yertson, Carl A., Hoboken, N. J. Valve-reseating device. 1,713,816; May 14.
- Yetter, Harry G., Blandinsville, Ill. Lug cleaner. 1,699,577; Jan. 22.
- Ygger, Albert K., New York, N. Y. Recording-weighing-scale switch. 1,734,456; Nov. 5.
- Yirkosky, Nicholas. (See Kudrna, F. J., jr., and Yirkosky.)
- Yngve, Victor, South Orange, N. J. Purifying salt and recovering by-products. 1,697,336; Jan. 1.
- Yock, Loren L., Garber, assignor of one-third to C. E. Youch, Garfield County, Okla. Aeroplane. 1,732,873; Oct. 22.
- Yockers, Ralph E. C., Smolan, Kans. Sorghum-thrashing machine. 1,702,146; Feb. 12.
- Yoder, Carl M., Cleveland, Ohio. Machine for cutting sheet material. 1,724,059; Aug. 13.
- Yoder-Morris Company, The. (See Morris, Howard I., assignor.)
- Yoder-Morris Company, The. (See Webster, Howard M., assignor.)
- Yoder Pencil Company, The. (See Becker, Bernard C., assignor.)
- Yoder Pencil Company, The. (See Lindberg, John F., assignor.)
- Yoder Pencil Company, The. (See Morris, Howard I., assignor.)
- Yoham, James L., Tell City, Ind. Toy. Des. 78,680; May 28.
- Yokel, Frank, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Brace for chandeliers. Des. 77,586; Jan. 22.
- Yokel, Frank, Cleveland, Ohio, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electric heater. Des. 77,803; Feb. 19.
- Yokel, Frank, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall plate for electric-light fixtures. Des. 78,428; Apr. 30.
- Yokel, Frank, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Wall fixture for electric lights. Des. 78,681; May 28.
- Yokelson, Samuel C. (See Cohen, P., and Rossein, assignors.)
- Yokoyama, Tatsuichi, Tokyo-fu, Japan. Reclaiming vulcanized rubber. 1,714,835; May 28.
- Yonsson, Albert. (See Johnson, Nils F., assignor.)
- Yorde, Charles C., and J. G. Haucke, Cincinnati, Ohio. Spectacle case. 1,733,848; Oct. 29.
- York Band Instrument Company. (See Johnson, Alfred J., assignor.)
- York Heating and Ventilating Corporation. (See Arnold, Robert S., assignor.)
- York, Herbert W., assignor to American Smelting and Refining Company, New York, N. Y. Mixing apparatus. 1,706,722; Mar. 26.
- York, Herbert W., assignor to American Smelting and Refining Company, New York, N. Y. Apparatus for refining metals. 1,733,522; Oct. 29.
- York Ice Machinery Corporation. (See Bergdoll, John G., assignor.)
- York Ice Machinery Corporation. (See Lauer, Stewart E., assignor.)
- York Ice Machinery Corporation. (See Pownall, H. D., assignor, and Bennett.)
- York Ice Machinery Corporation. (See Shipley, Thomas, assignor.)
- York Ice Machinery Corporation. (See Shive, Jacob A., assignor.)
- York, Robert E., Philadelphia, Pa. Thread moistener for hose or stocking knitting machines. 1,736,560; Nov. 19.
- York, Robert H. (See Yeager, E. O., and York.)
- Yorkey, William R., East Orange, N. J., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Polyphase-motor-control system. 1,723,755; Aug. 6.
- Yoshimatsu, Tadao, Azabu-Ku, Tokyo-Shi, Japan. Pencil. 1,728,711; Sept. 17.
- Yoshimoto, Sukesaku, Aki-Gun, Kochi-Ken, assignor of one-third to T. Okumura, Kobe-Shi, Hyogo-Ken, and one-third to S. Nakamura, Hyogo-Ken, Japan. Treating copper slag. 1,728,095; Sept. 10.
- Yost, Howard I. N., Dayton, Ohio. Automobile pedal. 1,711,712; May 7.
- Youch, Clarence E. (See Yock, Loren L., assignor.)
- Youker, Malcolm P., Bartlesville, Okla. Rectifying process. 1,735,558; Nov. 12.
- Young, Albert M. (See Goldberg, David and S., and Young.)
- Young, Albert N., Castle Shannon, Pa. Method of and apparatus for facilitating the building of wall structures. 1,706,971; Mar. 26.
- Young, Anne, Philadelphia, Pa. Four-piece lady's garment. 1,713,731; May 21.
- Young, Archer E., Pittsburgh, Pa. Method of and instrument for computing variables. 1,737,746; Dec. 3.
- Young, Arthur, Houston, Tex. Humidifier. 1,722,877; July 30.
- Young, Arthur P., Kenilworth, and J. H. Butcher, Rugby, England, assignors to General Electric Company. Sound-emitting device. 1,713,207; May 14.
- Young, Arthur P., Kenilworth, and J. Hutt, Coventry, England, assignors to General Electric Company. Telephone receiver. 1,721,426; July 16.
- Young, Arthur P., Kenilworth, and A. T. Stace, Coventry, England, assignors to General Electric Company. Telephone head set. 1,713,206; May 14.
- Young, Carl L., Denver, Colo. Cabinetmaker's clamp. 1,709,385; Apr. 16.
- Young, Carlos L., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Winding loom bobbins. 1,707,380; Apr. 2.
- Young, Charles D. (See Hankins, F. W., and Young.)
- Young, Charles D., Wayne, Pa. Anticreeping device for rails. 1,696,993; Jan. 1.
- Young, Charles E., assignor to Imperial Brass Manufacturing Co., Chicago, Ill. Toilet flush valve. Des. 78,721; June 11.
- Young, Charles H. (See Ernst, F. A., and Young.)
- Young, Charles L., assignor of one-half to C. A. Prosser, Minneapolis, Minn. Emulsified plastic and paint. 1,734,413; Nov. 5.
- Young, Charles M., Nelson, British Columbia, Canada. Musical instrument. 1,723,265; Aug. 6.
- Young, Charles M., jr., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Automatic skip loader. 1,710,794; Apr. 30.
- Young, Charles W., & Co. (See Gage, Charles H., assignor.)
- Young, Clarence H., Boston, Mass. Skid. 1,715,403; June 4.
- Young, Clarence H., Boston, Mass. Shoe stick. 1,739,813; Dec. 17.
- Young, Cyril C., Kansas City, Mo., assignor to Doherty Research Company, New York, N. Y. Gas-burning appliance. 1,705,168; Mar. 12.
- Young, Daniel H., Manchester, Iowa. Toothed implement. 1,740,557; Dec. 24.
- Young, Daniel J., Tacoma, Wash. Manufacture of motor fuels and similar products. 1,706,686; Mar. 26.
- Young Dental Manufacturing Co. (See Young, Luther A., assignor.)
- Young, Donald H., Berkeley, Calif., assignor to American Manganese Steel Company, Chicago, Ill. Ore mill and grinding element therefor. 1,720,024; July 9.
- Young, Dorris S., Wilsonville, Oreg. Line pole and constructing same. 1,711,217; Apr. 30.
- Young, Edward L., Little York, Ill. Gin pole. 1,719,352; July 2.
- Young, Emil O., Cleveland, Ohio. Damper-control-lock mechanism. 1,729,319; Sept. 24.
- Young Engineering Corporation Limited. (See Young, William J., assignor.)
- Young, Ernest F. (See Turlington, Charles D., assignor.)
- Young, Eugene M. (See Bradley, L. L., and Young.)
- Young, Frank, Logansport, Ind. Roof flashing. 1,700,619; Jan. 29.
- Young, Frank L., San Antonio, Tex. Renewable knife-blade and cartridge type fuse. 1,725,690; Aug. 20.
- Young, Frank W. (See Henry, V. S., Wright, and Young.)
- Young, Franklin K., Winthrop Center, Mass., assignor to Automatic Pistols, Inc., Dover, Del. Trigger mechanism for firearms. 1,732,115; Oct. 15.
- Young, Fred M., Racine, Wis. Reinforcement for tubular radiators. 1,696,995; Jan. 1.
- Young, Fred M., Racine, Wis. Sectional radiator. 1,707,454; Apr. 2.
- Young, Fred M., Racine, Wis. Automobile radiator. 1,717,082; June 11.
- Young, Fred W., Little Neck, N. Y., assignor to Rainbow Light, Inc. Mounting for luminous tubes. 1,722,363; July 30.
- Young, George H., Des Moines, Iowa. Therapeutical apparatus. 1,727,264; Sept. 3.
- Young, George R., Nevada, Mo., assignor to Electric Holding Corporation, Chicago, Ill. Starting box for dog race tracks. 1,713,414; May 14.
- Young, George R., Nevada, Mo., assignor to Electric Holding Corporation, Chicago, Ill. Hurdle for racetracks. 1,717,135; June 11.
- Young, George W., Honor Oak, London, England. Automatic rotary gathering and collating machine. 1,706,340; Mar. 19.
- Young, George W., Dulwich, London, England. Machine for automatically gathering and collating sheets and the like. 1,726,010; Aug. 27.
- Young, Goldia B., Oklahoma City, Okla. Sanitary diaper cover. 1,723,833; Aug. 6.
- Young, Harry E. B. (See Kinsella, E., and Young.)
- Young, Harry M., Webster Groves, Mo. Surgical appliance. 1,721,581; July 23.
- Young, Harry M., Webster Groves, Mo., assignor to Calumet Steel Company, Chicago, Ill. Clip-bending die. 1,701,250; Feb. 5.
- Young, Harvey L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Splicing apparatus. 1,719,206; July 2.
- Young, Harvey L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for dusting the interiors of tubes. 1,730,638; Oct. 8.
- Young, Helen B., New York, N. Y. Shawl coat. 1,739,433; Dec. 10.



- Young, Henry R., Muskegon, Mich. Piston and piston-ring construction. 1,708,348; Apr. 9.
- Young, Henry S., Wilkensburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,722,364; July 30.
- Young, Horace G., New York, N. Y. Apparatus for washing and separating sand and gravel. 1,704,115; Mar. 5.
- Young, Hoylande D., assignor to Van Schaack Bros. Chemical Works, Inc., Chicago, Ill. Esters of hexyl alcohol. 1,702,188; Feb. 12.
- Young, Hugh C., assignor to H. T. Bradner, Cleveland, Ohio. Combined shipping container and display device. 1,736,726; Nov. 19.
- Young, Irvin L., Chicago, Ill. Shipping tag. 1,701,601; Feb. 12.
- Young, Jacob, Hennessey, assignor to General Manufacturing Corporation, Oklahoma City, Okla. Mechanical ball game. 1,713,247; May 14.
- Young, James A., Abingdon, Ill. Soft-collar pin. 1,725,894; Aug. 27.
- Young, James B., Indianapolis, Ind. Automobile bed. 1,724,162; Aug. 13.
- Young, James C., New York, N. Y. Window box. 1,742,051; Dec. 31.
- Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Building material. 1,720,708; July 16.
- Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Container for asphalts and the like. 1,734,189; Nov. 5.
- Young, John, Montclair, N. J., assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Making ditolylguanidine. 1,727,916; Sept. 10.
- Young, John A., Torrence, Calif., assignor to The National Supply Company, Toledo, Ohio. Power-driven slush pump. 1,732,424; Oct. 22.
- Young, John C. (See McDonald, A., and Smith, assignors.)
- Young, John C. (See Smith, William O., assignor.)
- Young, John C., Pittsburgh, Pa. Necktie holder. 1,707,591; Apr. 2.
- Young, John H., and W. G. Frink, Middletown, assignors to The Borden Company, New York, N. Y. Machine for cutting and stacking sheet metal and the like. 1,712,241; May 7.
- Young, John H., and W. G. Frink, Middletown, assignors to The Borden Company, New York, N. Y. Device for stacking sheet metal and the like. 1,717,430; June 18.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Machine employed in connection with the manufacture of metal containers. 1,702,584; Feb. 19.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Keyless-tearing-strip container. 1,704,234; Mar. 5.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Attachment of keys to tearing-strip cans. 1,705,846; Mar. 19.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Attachment of keys to cans. 1,710,958; Apr. 30.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,716,201; June 4.
- Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Tearing-strip can. 1,725,970; Aug. 27.
- Young, John R., Whittier, Calif. Belt clamp. 1,723,114; Aug. 6.
- Young, John W., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Heat exchanger. 1,720,536; July 9.
- Young, Joseph M., New York, N. Y. Windshield wiper. 1,735,070; Nov. 12.
- Young, L. A., Industries, Inc., The. (See Stackhouse, George A., assignor.)
- Young, L. A., Industries, Inc. (See Van Hove, Desire H., assignor.)
- Young, Lafayette. (See Akin, W. M., and Young.)
- Young, Lafayette, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo. Metal-rolling mill. 1,729,410; Sept. 24.
- Young, Lafe. (See Akin, T. R., Young, and Biggert.)
- Young, Lawrence F., assignor to The Oilgear Company, Milwaukee, Wis. Air-exhaust mechanism for hydraulic circuits. 1,700,394; Jan. 29.
- Young, Luther A., assignor to Young Dental Manufacturing Co., St. Louis, Mo. Dental hot-air blower. 1,701,025; Feb. 5.
- Young, Osmond, & Young, Limited. (See Petrie, David G., assignor.)
- Young, Pannel R., Cincinnati, Ohio. Grease cup for automobiles and the like. 1,728,464; Sept. 17.
- Young, Philip L., Elizabeth, N. J., assignor to Standard Oil Development Company. Treatment of hydrocarbons. 1,735,486; Nov. 12.
- Young, Ralph P. (See Kramer, Henry W., assignor.)
- Young, Ray. (See Holt, O. D., and Young.)
- Young, Robert V. (See Clapp, F. L., and Young.)
- Young, Robert W., Wilmette, Ill. Turntable-driving apparatus. 1,701,938; Feb. 12.
- Young, Stephen L., Syracuse, N. Y. Spring-leaf wrapper. 1,731,034; Oct. 8.
- Young, Thomas L., Seattle, Wash. Sanitary toilet-seat cover. 1,702,070; Feb. 12.
- Young, Walter, Monte Vista, Colo. Self-setting animal trap. 1,734,603; Nov. 5.
- Young, Walter F., Surrey, England. Cap or stopper for bottles, canisters, jars, and the like. 1,739,434; Dec. 10.
- Young, William A., Astoria, N. Y. Putty spreader. 1,731,186; Oct. 8.
- Young, William A., and R. L. Ankener, New York, N. Y. Grommet-making machine. 1,714,339; May 21.
- Young, William D., Newton Center, Mass. Crib cover. 1,735,521; Nov. 12.
- Young, William J., Toronto, Ontario, assignor to Young Engineering Corporation Limited, Toronto, Canada. Oil burner. 1,707,340; Apr. 2.
- Young, Willis H., Pompton Lakes, N. J., assignor, by mesne assignments, to N. C. Mendes, New York, N. Y., trustee of Evernu Corporation, bankrupt. Hat protector. 1,737,289; Nov. 26.
- Youngberg, Conrad D., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter. 1,724,163; Aug. 13.
- Youngberg, Conrad D., and G. J. Rundblad, assignors to Woodstock Typewriter Company, Woodstock, Ill. Letter-spacing mechanism for typewriters. 1,724,060; Aug. 13.
- Youngblood, David F., San Antonio, Tex. Locking and operating system for cell doors. Re17,403; Aug. 13.
- Youngblood, David F., San Antonio, Tex. Speaking device. 1,697,445; Jan. 1.
- Youngblood, David F., San Antonio, Tex. Speaking device. 1,697,446; Jan. 1.
- Youngblood, David F., San Antonio, Tex. Speaking device. 1,701,349; Feb. 5.
- Youngblood, Jasper N., Fletcher, N. C. Bricklaying machine. 1,736,812; Nov. 26.
- Youngblood, Knowles, assignor to Nashua-Youngblood Company, Nashua, N. H. Machine for making wrapping bands. 1,734,321; Nov. 5.
- Younger Dehydrator Company. (See Younger, Ellard L., assignor.)
- Younger, E. L., & Sons. (See Younger, Ellard L., assignor.)
- Younger, Ellard L., assignor to Younger Dehydrator Company, Woodland, Calif. Dehydrator. 1,718,845; June 25.
- Younger, Ellard L., assignor to E. L. Younger & Sons, Woodland, Calif. Dehydrator. 1,738,550; Dec. 10.
- Younger, Harry C. (See Younger, Richard E. and H. C.)
- Younger, Joshua M., Oakland, Calif. Dehydrator apparatus. 1,737,068; Nov. 26.
- Younger, Richard E. and H. C., Holdrege, Nebr. Attachment for scales. 1,728,988; Sept. 24.
- Younggren, Franz. (See Younggren, Leonard S. and F.)
- Younggren, Leonard S. and F., Kimmunity, Alberta, Canada; said F. Younggren assignor to said L. S. Younggren. Combination drill and cultivator. 1,707,650; Apr. 2.
- Younghusband, James L., Chicago, Ill. Loose-powder container. 1,713,588; May 21.
- Youngman, John D., Sleepy Eye, Minn. Dairy-barn structure. 1,711,004; Apr. 30.
- Youngquist, Harry L., Granger, Tex. Mechanical toy. 1,714,537; May 28.
- Youngren, Oscar A., Pasadena, Calif., assignor to Royal Products, Inc. Card holder. 1,705,349; Mar. 12.
- Youngren, Oscar A., Pasadena, Calif. Self-closing valve. 1,728,465; Sept. 17.
- Youngstown Pressed Steel Company, The. (See Cloke, Allen D., assignor.)
- Youngstown Pressed Steel Company, The. (See Lenney, Clarence B. and G. P., assignors.)
- Youngstown Pressed Steel Company. (See Winter, John R., assignor.)
- Youngstown Sheet & Tube Company, The. (See Mirfield, George E., assignor.)
- Youngstown Steel Door Company, The. (See Barrows, Allan S., assignor.)
- Youngstown Steel Door Company, The. (See Henricks, Harold H., assignor.)
- Yonnie, Lewis E., La Fayette, Calif. Picker. 1,715,111; May 28.
- Youssovpova, Marika. (See Ray, George W., assignor.)
- Ysskin, Herman, Newark, N. J. Spring wheel. 1,698,523; Jan. 8.
- Yuba Manufacturing Company. (See Storsand, Bjorn R., assignor.)
- Yukl, Louis, Baltimore, Md. Violin. 1,700,395; Jan. 29.
- Yund, Walter C., Amsterdam, N. Y. Pocket construction and making same. 1,711,437; Apr. 30.
- Yund, Walter C., Amsterdam, N. Y. Pocket for knitted garments. 1,711,438; Apr. 30.
- Yundt, Michael, Company. (See Stock, Henry F., assignor.)
- Yunek, Joseph, Boscobel, Wis. Garage-door latch. 1,700,620; Jan. 29.
- Yungblut, Gibson, Dayton, Ky., assignor to The Richardson Company, Lockland, Ohio. Making metallic sheets by electroplating. 1,695,486; Jan. 8.
- Yunker, Henry C. (See Cordill, R., and Yunker.)
- Yunker, Prosper R., assignor to G. C. Henry, Helena, Mont. Battery and generator control. 1,710,851; Apr. 30.
- Yuranovich, Caesar M., Seattle, Wash. Sun-observing device. 1,727,686; Sept. 10.
- Yuyama, Jiji, Ebaragun Tokyofo, Japan, assignor to General Electric Company. Control system. 1,713,208; May 14.
- Yznaga y Ruiz, Carmen, et al., heirs. (See de Castro & Iznaga, Sergio F.)



- Z System Construction Inc. (See East, Mose D., assignor.)
- Zabel, Jacob, Toronto, Ontario, Canada. Fur-shearing machine. 1,732,323; Oct. 22.
- Zabel, Jacob, assignor to Reliable Machine Works, Inc., Brooklyn, N. Y. Fur brushing and ironing machine. 1,724,542; Aug. 13.
- Zabriskie, William F., assignor to Gabriel Steel Company, Detroit, Mich. Metallic joist. 1,704,235; Mar. 5.
- Zabriskie, William F., assignor to Gabriel Steel Company, Detroit, Mich. Fire-resisting floor construction. 1,711,163; Apr. 30.
- Zaccone, Guy J., Chicago, Ill. Brake mechanism. 1,734,935; Nov. 5.
- Zacharias, August, Minneapolis, Minn. Ventilating system for stock buildings. 1,725,971; Aug. 27.
- Zachary, Roy L. (See Carpenter, T. L., and Zachary.)
- Zacharyasz, Stanley. (See Petta, J., and Zacharyasz.)
- Zachs, William, et al. (See Hamiltonoff, Simon A., assignor.)
- Zack, Michael, Cologne-on-the-Rhine, Germany. Arc welding. 1,707,036; Mar. 26.
- Zaday, Louis, Los Angeles, Calif. Chair. 1,702,955; Feb. 19.
- Zadek, Arthur, New York, N. Y. Receptacle for holding small toilet articles. 1,699,263; Jan. 15.
- Zadek, Arthur, New York, N. Y. Carriage-cover clamp. 1,722,551; July 30.
- Zadow, Waldemar, Berlin, Germany. Friction-roller transmission gear. 1,737,695; Dec. 3.
- Zaeske, Henry L., West Allis, Wis. Tongs. 1,718,398; June 25.
- Zagarino, William C., and M. T. McDonald, Bellmore, N. Y. Battery-condition indicator. 1,719,160; July 2.
- Zagorski, Johann, Frankfurt-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Clamping device for attaching conductors to supporting and tensioning members. 1,706,833; Mar. 26.
- Zagorski, Johann, Frankfurt-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Stretching clamp. 1,706,972; Mar. 26.
- Zagorski, Johann, Frankfurt-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Connector for hollow electrical conductors or tubes. 1,706,973; Mar. 26.
- Zagorski, Johann, Frankfurt-on-the-Main, Germany. Turbine blading, particularly steam or gas turbine. 1,710,561; Apr. 23.
- Zahn, Albert F., Washington, D. C. Aerodynamic balance. 1,710,135; Apr. 23.
- Zahn, Karl. (See Thiess, K., Müller, Schirmacher, and Zahn.)
- Zahn, Karl, Höchst-on-the-Main, and P. Ochwat, Bad-Soden, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Producing arylaminoanthraquinones. 1,699,419; Jan. 15.
- Zahn, Lawrence J. (See Gurevich, M. S., and Zahn.)
- Zahn, Lawrence J., Long Island City, assignor to International Postal Supply Company, Brooklyn, N. Y. Inking mechanism. 1,720,194; July 9.
- Zahn, Lawrence J., Long Island City, and M. Schroeder, New York, assignors to International Postal Supply Company, Brooklyn, N. Y. Mail-making apparatus. 1,732,425; Oct. 22.
- Zahn, Lawrence J., Long Island City, and M. Schroeder, New York, assignors to International Postal Supply Company, Brooklyn, N. Y. Mail-handling machine. 1,732,426; Oct. 22.
- Zähler & Schless & Co. (See Brandenberger, Oscar, assignor.)
- Zahrndt, Clarence A., Detroit, Mich. Spring construction. 1,721,196; July 16.
- Zaidan Hojin Rikagaku Kenkyujo. (See Isobe, Hajime, assignor.)
- Zaidan Hojin Rikagaku Kenkyujo. (See Kujirai, T., and Ueki, assignors.)
- Zaidan Hojin Rikagaku Kenkyujo. (See Nagaoka, H., Asada, and Machida, assignors.)
- Zaidan Hojin Rikagaku Kenkyujo. (See Nagaoka, H., and Ikebe, assignors.)
- Zaidan Hojin Rikagaku Kenkyujo. (See Okochi, M., and Ebihara, assignors.)
- Zaidan Hojin Rikagaku Kenkyujo. (See Setoh, S., and Ueki, assignors.)
- Zaidan Hojin Rikagaku Ken-Kyujō. (See Takei, Sankichi, assignor.)
- Zaidan Hojin Rikagaku Kenkyujo. (See Yabuta, Teijiro, assignor.)
- Zaiman, Moses. (See Kaufman, J., and Zaiman.)
- Zaiser, William, Rockville Center, N. Y. Grand piano. Des. 78,246; Apr. 9.
- Zaisser, Fritz S., New York, N. Y. Window screen. 1,723,455; Aug. 6.
- Zaisser, Fritz S., New York, N. Y. Window closure. 1,723,594; Aug. 6.
- Zaisser, William, Brooklyn, N. Y. Waterproofing hollow tile walls. 1,735,447; Nov. 12.
- Zak, Joseph T., Milwaukee, Wis. Range-finding instrument. 1,717,595; June 18.
- Zak, Joseph T., Milwaukee, Wis. Range-finding instrument. 1,717,596; June 18.
- Zak, Joseph T., Milwaukee, Wis. Angle-measuring instrument. 1,723,456; Aug. 6.
- Zalka, Frank, Chicago, Ill. Counterweight figure toy. 1,698,617; Jan. 8.
- Zamostny, Anthony, Washington, D. C. Combination rule. 1,702,231; Feb. 12.
- Zanardelli, Faust, and C. Antonelli, Monongahela, Pa. Toothpick dispenser. 1,737,747; Dec. 3.
- Zang, Joseph, St. Louis, Mo. Cutting and flanging tool. 1,713,940; May 21.
- Zangerle & Peterson Company. (See Anderson, Otto, assignor.)
- Zangerle & Peterson Company, The. (See Anderson, Otto A., assignor.)
- Zanini, Carlo, Cairo, Egypt. Auxiliary air device for explosion engines. 1,726,602; Sept. 3.
- Zannoth, Robert C., Milwaukee, Wis. Guide strip. 1,697,625; Jan. 1.
- Zapanta, Vicente S., San Francisco, Calif. Check protector. 1,737,186; Nov. 26.
- Zapp, Arnold J., assignor to Stephen Sanford & Sons, Inc., Amsterdam, N. Y. Rug. Des. 78,371; Apr. 23.
- Zarate, Paul, jr., assignor of one-half to L. W. Andrews, Kansas City, Mo. Radio condenser. 1,740,850; Dec. 24.
- Zaremba, Adolph E., South Pasadena, Calif. Bookrack. 1,699,176; Jan. 15.
- Zarkin, Charles, Philadelphia, Pa., assignor to Zarkin Machine Company, Inc., New York, N. Y. Graining machine. 1,718,020; June 18.
- Zarkin Machine Company. (See Zarkin, Charles, assignor.)
- Zarracina, Isidro R., Valladolid, Spain. Carburetor for internal-combustion engines. 1,699,647; Jan. 22.
- Zarse, Walter J., Milwaukee, Wis. Baseball game. 1,741,086; Dec. 24.
- Zastrow Machine Company. (See May, J. J., and Shutz, assignors.)
- Zatti, Joseph, Hartford, Conn. Metal-bending device. 1,731,087; Oct. 8.
- Zbinden, Emil, Solothurn, Switzerland. Time-switch-actuating means. 1,702,715; Feb. 19.
- Zbinden, Emil, Solothurn, Switzerland. Alternating-current driving device. 1,739,885; Dec. 17.
- Zbinden, S. F., et al. (See Faris, Edwin E., assignor.)
- Zearing, Robert M., jr. (See Zearing, R. M., jr., and Tittle, assignors.)
- Zearing, Robert M., jr., and W. Tittle, assignors, by mesne assignments, to R. M. Zearing, jr., Philadelphia, Pa. Dispensing device. 1,702,147; Feb. 12.
- Zebulke, Edward A., assignor of one-half to H. F. Maynes, and one-half to E. C. Maynes, North Tonawanda, N. Y. Process and apparatus for coating granular material. 1,725,608; Aug. 20.
- Zedekar, Robert L., Westerville, Ohio. Automobile hood eaves. 1,722,878; July 30.
- Zeh, Edmund W., Newark, N. J. Safety control for power presses. 1,715,180; May 28.
- Zeh, Ludwig. (See Duisberg, W., Hentrich, and Zeh.)
- Zeh, Martin, assignor to the firm Dr. Erich F. Huth Ges. m. H., Berlin, Germany. Mounting for thermionic tubes. 1,697,039; Jan. 1.
- Zehnder, Louis R., assignor, by mesne assignments, to Louisville Frog Switch & Signal Company, Louisville, Ky. Reflecting device. 1,741,087; Dec. 24.
- Zehnder, Louis R., assignor, by mesne assignments, to Louisville Frog Switch & Signal Company, Louisville, Ky. Reflecting device. 1,741,088; Dec. 24.
- Zehrung, Winfield S. (See Suhr, C. L., and Zehrung.)
- Zeibig, Bruno H., assignor to A C Spark Plug Company, Flint, Mich. Rubber shackle and making same. 1,734,025; Oct. 29.
- Zeldler Corporation, The. (See Sutton, Harry G., assignor.)
- Zeldler, Richard A., Secaucus, N. J., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Wall fixture. Des. 80,209; Dec. 24.
- Zeldler, William A., assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment-pressing machine. 1,704,816; Mar. 12.
- Zeldler, William A., assignor to Hurlburt Research Corporation, New York, N. Y. Adjusting scissors element. 1,723,756; Aug. 6.
- Zeldler, William A., assignor to Hurlburt Research Corporation, New York, N. Y. Pindle for scissors. 1,741,803; Dec. 31.
- Zeigler, Charles D., Minneapolis, assignor to Brown & Bigelow, St. Paul, Minn. Pencil. 1,726,011; Aug. 27.
- Zeik, David, Bayonne, N. J. Corner bracket for frames. 1,726,205; Aug. 27.
- Zeisberg, Fred C. (See Taylor, G. B., and Zeisberg.)
- Zeisberg, Fred C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacturing esters and other valuable organic compounds. 1,708,460; Apr. 9.
- Zeiss, Carl. (See Steinle, Adolf, assignor.)
- Zeiss, firm Carl. (See Bauersfeld, W., and Pfeiffer, assignors.)
- Zeiss, firm Carl. (See Henker, Otto, assignor.)
- Zeiss, firm Carl. (See König, Albert, assignor.)
- Zeiss, firm Carl. (See Kühl, Theodor, assignor.)
- Zeiss, firm Carl. (See Meyer, Franz, assignor.)
- Zeiss, firm Carl. (See Nichterlein, Paul, assignor.)
- Zeiss, firm Carl. (See Steinle, Adolf, assignor.)
- Zeiss, firm Carl. (See Wandersleb, E., and Merté, assignors.)
- Zeiss, firm of Carl. (See Bauersfeld, Walther, assignor.)
- Zeiss, firm of Carl. (See Köhler, Willy, assignor.)
- Zeiss, firm of Carl. (See Merté, August, assignor.)
- Zeiss, firm of Carl. (See Wandersleb, E., and Kunze, assignors.)



- Zeiss Ikon Aktiengesellschaft Dresden. (See Goldberg, E., and Fischer, assignors.)
- Zeithammer, Otto A., Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Bevel wheel gear. 1,725,774; Aug. 27.
- Zeidler, Gustave A., Oakland, Calif. Vacuum evaporator. 1,721,760; July 23.
- Zeitschel, Franz O., Hamburg, Germany. Isolating alcohol or phenols from mixtures. 1,733,440; Oct. 29.
- Zeitz, Hugo C. (See Street, James A., assignor.)
- Zeledon, Ralph G., South Pasadena, Calif. Piston ring. 1,704,907; Mar. 12.
- Zelenka, Ernest, and A. Theis, Chicago, Ill.; said Theis assignor to said Zelenka. Refrigerated show case. 1,729,638; Oct. 1.
- Zelewski, Alexander, Berlin-Oberschoneweide, Germany, assignor to General Electric Company. Truck for electrical apparatus. 1,733,043; Oct. 22.
- Zelk, George H., Northwood, N. Dak. Tractor hitch. 1,733,146; Oct. 29.
- Zell, David H. (See Lyddane, Mortimer C., assignor.)
- Zell, David H., Inc. (See Sandkuhl, Edmund H., assignor.)
- Zell, David H., Brooklyn, N. Y. Wallet. Des. 77,930; Mar. 5.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,176; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,177; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,178; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,179; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,180; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,181; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,182; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,183; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,184; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,185; Apr. 2.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,247; Apr. 9.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,248; Apr. 9.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,249; Apr. 9.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,250; Apr. 9.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 78,251; Apr. 9.
- Zell, David H., New York, N. Y. Vanity case. Des. 78,600; May 21.
- Zell, David H., Brooklyn, N. Y. Covering for vanity cases or analogous receptacles. Des. 79,118; July 30.
- Zell, David H., Brooklyn, N. Y. Cover for vanity cases or analogous articles. Des. 79,614; Oct. 15.
- Zell, David H., Brooklyn, N. Y. Cover for vanity cases or analogous articles. Des. 79,615; Oct. 15.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,866; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,867; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,868; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,869; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,870; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,871; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,872; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,873; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,874; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. Des. 79,875; Nov. 5.
- Zell, David H., Brooklyn, N. Y. Vanity case. 1,733,849; Oct. 29.
- Zelenka, Sidonie, New York, N. Y. Article of wearing apparel. 1,719,579; July 2.
- Zeller, George C., Pomona, Calif. Illuminated house number. 1,718,622; June 25.
- Zeller, Isaiah N., assignor to American Safety Razor Corporation, Brooklyn, N. Y. Blade package. 1,734,551; Nov. 5.
- Zeller, John C., Watford City, N. Dak. Display rack. 1,719,283; July 2.
- Zellhoefer, Glenn F., Bloomington, Ill. Refrigerating system. 1,738,270; Dec. 3.
- Zellhoefer, Glenn F., Urbana, Ill. Refrigerating system. 1,738,342; Dec. 3.
- Zellweger A. G. (See Hammer, Willibald, assignor.)
- Zelnio, Adolf S., and Z., Moline, Ill. Valve lock. 1,703,701; Feb. 26.
- Zelnio, Szymon. (See Zelnio, Adolf S., and Z.)
- Zelnio, Zygmunt. (See Zelnio, Adolf S., and Z.)
- Zeitner, Harry M., assignor to The Baldwin Company, Cincinnati, Ohio. Radiocabinet. Des. 79,450; Sept. 17.
- Zeman, Anton, assignor to J. Saltzman, Chicago, Ill. Pressing machine. 1,710,038; Apr. 23.
- Zengerle, Joseph W. (See Chaparolo, F. L., and Zengerle.)
- Zeni, Lawrence, Scranton, assignor of one-half to C. D. Thomas, Archbald, Pa. Winder-cop former. 1,734,510; Nov. 5.
- Zenith Radio Corporation. (See Heath, Wilfrid P., assignor.)
- Zent, Moody. (See Sykes, L., and Zent.)
- Zentmyer, John D., Glendora, Calif. Folding rocking chair. 1,711,371; Apr. 30.
- Zepp, L. Henry, assignor to Budd Wheel Company, Philadelphia, Pa. Centering pin for disk rolling mills. 1,703,564; Feb. 26.
- Zeppenfeld, Freda D., St. Louis, Mo. Coil-clamp curler and end trainer. 1,731,994; Oct. 15.
- Zerbe, Lewis E. (See Timbs, E., and Zerbe.)
- Zerbo, Angelo, Detroit, Mich. Brush mounting. 1,727,917; Sept. 10.
- Zerby, Arthur W., Reading, Pa. Hosiery box. 1,728,385; Sept. 17.
- Zerenga, Bonaventure, New York, N. Y. Suitcase frame. 1,705,436; Mar. 12.
- Zerk, Oscar, now by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Assembling valves. 1,708,040; Apr. 9.
- Zerk, Oscar, now by judicial change of name Oscar U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Alemite Manufacturing Corporation, Chicago, Ill. Lubricating means. 1,711,870; May 7.
- Zerk, Oscar, now by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Alemite Manufacturing Corporation, Chicago, Ill. Lubricant-dispensing apparatus. 1,720,871; July 16.
- Zerk, Oscar, now by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Alemite Manufacturing Corporation, Chicago, Ill. Lubricant-dispensing apparatus. 1,720,872; July 16.
- Zerk, Oscar, now by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,720,873; July 16.
- Zerk, Oscar, now by judicial change of name O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to The Alemite Manufacturing Corporation, Chicago, Ill. Lubricant-dispensing apparatus. 1,720,874; July 16.
- Zerk, Oscar U. (See Zerk, Oscar.)
- Zerk, Oscar U., Cleveland, Ohio, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant fitting. 1,697,217; Jan. 1.
- Zerk, Oscar U., Cleveland, Ohio, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,700,527; Jan. 29.
- Zerk, Oscar U., Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation. Lubricant-dispensing apparatus. 1,703,285; Feb. 26.
- Zerk, Oscar U., Cleveland, Ohio, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,703,286; Feb. 26.
- Zerk, Oscar U., Cleveland, Ohio, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,710,719; Apr. 30.
- Zerk, Oscar U., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant reservoir and dash pump. 1,710,959; Apr. 30.
- Zerk, Oscar U., Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating mechanism. 1,711,871; May 7.
- Zerk, Oscar U., Detroit, Mich., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,708,041; Apr. 9.
- Zerk, Oscar U., Newark, N. J., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant-dispensing device. 1,714,254; May 21.
- Zerner, Max, New York, and O. K. Reinhardt, Jamaica, N. Y., assignors, by mesne assignments, to Bond Electric Corporation, Jersey City, N. J. Dry battery. 1,734,457; Nov. 5.
- Zerweck, Werner. (See Herz, R., and Zerweck.)
- Zerweck, Werner. (See Herz, R., Schulte, and Zerweck.)
- Zerweck, Werner. (See Kalischer, G., and Zerweck.)
- Zerweck, Werner, Fechenheim, near Frankfurt-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuff and making same. 1,706,946; Mar. 26.
- Zettel, Gustav, Erfurt, Germany. Head support for operation chairs of any kind. 1,713,361; May 14.
- Zetterlund, Carl, Chicago, Ill. Hoisting apparatus. 1,701,939; Feb. 12.
- Zettervall, Carl T., Brainerd, Minn. Valve-pin pliers. 1,707,947; Apr. 2.
- Zeuthen, Otto L., Copenhagen, Denmark. Rotary manifolding machine. 1,718,886; June 25.
- Zhwann, Jacob G., Brooklyn, N. Y. Self-oiling pin. 1,712,683; May 14.
- Zibelman, Frank A., Chicago, Ill. Tire lifting, carrying, and lowering device. 1,723,320; Aug. 6.
- Zick, Konrad, Furth, assignor to the Firm Blechspielwarenfabrik Johann Distler, Nuremberg, Bavaria, Germany. Device for producing color and light effects. 1,717,868; June 18.



- Zickgraf, Arthur F., Mason, Mich. Excavator. 1,723,115; Aug. 6.
- Ziebarth, Frederick A., Delano, Minn. Fence-post brace. 1,735,101; Nov. 12.
- Zieg, Fred C. (See Munson, W. R., and Shipley, assignors.)
- Ziegler, Adam E. (See Glaicair, J. D., and Ziegler.)
- Ziegler, Edwin S., York, Pa. Vehicle body. 1,710,252; Apr. 23.
- Ziegler, Joram A., assignor to The Trane Company, La Crosse, Wis. Machine for corrugating metal tubes. 1,727,918; Sept. 10.
- Ziegler, Ralph B., Philadelphia, Pa. Connector. 1,711,300; Apr. 30.
- Ziegler, William G., Elmhurst, assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Thermometer. 1,722,619; July 30.
- Zielinski, Joseph. (See Kropenicki, J., and Zielinski.)
- Zielinski, Michael. (See Kaczorowski, Bernard, assignor.)
- Ziemmerman, Henry, assignor to Chicago Cardboard Company, Chicago, Ill. Folding display card. 1,698,664; Jan. 8.
- Ziemmerman, Henry, assignor to Chicago Card Board Company, Chicago, Ill. Step display. 1,698,686; Jan. 8.
- Ziemmerman, Henry, assignor to Chicago Cardboard Company, Chicago, Ill. Folding easel and stand. 1,700,105; Jan. 22.
- Ziemmerman, Henry, assignor to Chicago Card Board Company, Chicago, Ill. Folding display card. 1,710,330; Apr. 23.
- Zierer, Alfred. (See Winkler, Gustav, assignor.)
- Ziesche, Otto P., assignor to Hermsdorf-Schomburg, Isolatoren G. m. b. H., Hermsdorf, Thuringen, Germany. Electrical insulator. 1,729,532; Sept. 24.
- Zifferer, Lothar R., Columbia, Pa. Concrete insert. 1,704,779; Mar. 12.
- Zifferer, Lothar R., Columbia, Pa. Floor and ceiling plate. 1,735,029; Nov. 12.
- Zifferer, Lothar R., Columbia, Pa. Pipe hanger. 1,740,802; Dec. 24.
- Zifferer, Lothar R., Columbia, Pa. Pipe hanger. 1,740,803; Dec. 24.
- Zilbersher, Abraham, New York, N. Y. Combination scraper, blade sharpened, and corn cutter. 1,707,154; Mar. 26.
- Zilli, Luigi, San Daniele del Friuli, Italy. Hoffmann furnace. 1,717,825; June 18.
- Zillox, John, assignor to Park Metalware Co. Inc., Orchard Park, N. Y. Clamp for electrical cables. 1,741,804; Dec. 31.
- Zim, Jesse G., Medford, assignor of fifteen per cent to J. F. Sheehan, Everett, fifteen per cent to W. C. Gray, Cambridge, fifteen per cent to L. W. Rich, Medford, and ten per cent to J. P. Buckley, Boston, Mass. Galley lock. 1,720,812; July 16.
- Zim Manufacturing Company. (See Berkman, Herbert A., assignor.)
- Zimarik, John, assignor to The Portage Machine and Engine Company, Akron, Ohio. Tire-resurfacing machine. 1,713,243; May 14.
- Zimitz, Michael, Brooklyn, N. Y. Jacquard bar and pattern lug therefor. 1,701,522; Feb. 12.
- Zimmer, Albert E., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door-operating mechanism. 1,705,952; Mar. 19.
- Zimmer, Albert E., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car construction. 1,725,042; Aug. 20.
- Zimmer, Harry R., Los Angeles, Calif. Radium-activating device. 1,745,52; Jan. 8.
- Zimmer, Samuel. (See Whitney, George E., assignor.)
- Zimmerer, Frederick J., Jr., assignor to The Russell Manufacturing Company, Middletown, Conn. Fabric. 1,702,289; Feb. 19.
- Zimmerli, Adolph, New Brunswick, N. J., assignor to Rhodia Chemical Co., New York, N. Y. Producing dibenzylphthalate. 1,708,404; Apr. 9.
- Zimmerman, Adolf E., Mellen, Wis. Toy baseball game. 1,723,671; Aug. 6.
- Zimmerman, Arthur C., Dayton, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Treatment of magnesium and magnesium alloys to inhibit corrosion. Re17,309; May 28.
- Zimmerman, Carl D., Cleveland Heights, Ohio. Apparatus for gas analysis. 1,719,864; July 9.
- Zimmerman, Clifford J. (See Brentson, A. H., and Zimmerman.)
- Zimmerman, Emil C., assignor to Q & C Company, New York, N. Y. Splice bar for rail joints. 1,709,551; Apr. 16.
- Zimmerman, Hans, Berlin-Pankow, Germany. Movable weir with hinged top flap or head. 1,733,850; Oct. 29.
- Zimmerman, Harry, Lakeland, Fla., assignor, by mesne assignments, to The Yerges Manufacturing Company, Fremont, Ohio. Bias buffer. 1,728,586; Sept. 17.
- Zimmerman, Harry C., Washington, D. C. Regulator for recoil mechanism or buffers. 1,707,621; Apr. 2.
- Zimmerman, Herman W. (See Wacker, F. G., and Zimmerman.)
- Zimmerman, Isabella V., et al., executors. (See Zimmerman, William G.)
- Zimmerman, James G. (See Storey, O. W., and Zimmerman.)
- Zimmerman, James L. M., Philadelphia, Pa. Fusible protective device for motor bearings. 1,737,629; Dec. 3.
- Zimmerman, John F., Springfield, Ohio. Railway crossing. 1,735,626; Nov. 12.
- Zimmerman, Joseph, San Antonio, Tex. Device for facilitating the coupling of pipes. 1,706,687; Mar. 26.
- Zimmerman, Max. (See Kerr, F., and Zimmerman.)
- Zimmerman, Oscar, Los Angeles, Calif. Self basting and turning roaster. 1,712,242; May 7.
- Zimmerman, Paul. (See Vork, T., and Zimmerman.)
- Zimmerman, Raymond C., Lima, Ohio. Damper control for brooder stoves. 1,724,061; Aug. 13.
- Zimmerman, Rufus E., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Tinning apparatus. 1,712,413; May 7.
- Zimmerman, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Manufacturing quick-traverse shapers. Re17,420; Aug. 27.
- Zimmerman, William G., deceased, Everett, Wash.; I. V. Zimmerman and O. L. West, executors. Joiner. 1,736,641; Nov. 19.
- Zimmerman, William R., assignor to The Bishop and Babcock Manufacturing Company, Cleveland, Ohio. Making flexible corrugated-metal walls. 1,710,075; Apr. 30.
- Zimmermann, Heinrich, Kitzingen-on-the-Main, Germany. Horsehair spinning and curling machine. 1,710,600; Apr. 23.
- Zimmermann, James G., Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company. Rheostatic circuit-controlling apparatus. 1,741,802; Dec. 31.
- Zimmermann, Leroy G., Milwaukee, Wis. Storm water inlet. 1,715,487; June 4.
- Zimmermann, Max H., Newington, N. H., assignor, by mesne assignments, to A. C. Burrage, Jr., Ipswich, Mass. Age-resisting compound for vulcanized rubber. 1,734,951; Nov. 5.
- Zimmermann, Max H., Newington, N. H., assignor, by mesne assignments, to A. C. Burrage, Jr., Ipswich, Mass. Age-resisting compound for vulcanized rubber. 1,734,952; Nov. 5.
- Zimmermann, Max H., Newington, N. H., assignor, by mesne assignments, to A. C. Burrage, Jr., Ipswich, Mass. Age-resisting compound for vulcanized rubber. 1,734,953; Nov. 5.
- Zimmermann, Paul G., Keyport, N. J., assignor of one-fourth to J. F. Brandenburg, New York, N. Y. Airplane wing. 1,697,674; Jan. 1.
- Zimmermann, William. (See Harlow, T., and Zimmermann.)
- Zimmermann, William F., Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J. Swiveled cutter hobber. 1,699,264; Jan. 15.
- Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Gear-hobber control. 1,707,546; Apr. 2.
- Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Rail clamp for shaping machines. 1,735,370; Nov. 12.
- Zimmermann, William F., Maplewood, and H. W. Jacobson, Arlington, N. J., assignors to Gould & Eberhardt, Newark, N. J. Lubricating system for hobbing machines. 1,701,091; Feb. 5.
- Zimniewicz, Anthony, New York, N. Y., assignor, by mesne assignments, to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Assorting and delivering mechanism. 1,700,869; Feb. 5.
- Zingg, Oscar, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Heating device. 1,738,164; Dec. 3.
- Zinggeler, George, Rochester, N. Y. Saw-blade holder. 1,716,941; June 11.
- Zink, Fred W. (See Whitehead, J. F., and Zink.)
- Zink, John S., Tulsa, Okla. Gas burner. 1,715,051; May 28.
- Zinke, Alois. (See Pongratz, A., and Zinke.)
- Zinke, Alois, Graz, Austria, assignor to F. Bensa, Genoa, Italy. Manufacture of vat dyestuffs of the isodibenzanthrone series. 1,705,953; Mar. 19.
- Zinke, Alois, Graz, Styria, Austria, assignor to F. Bensa, Genoa, Italy. Condensing organic compounds by means of aluminum chloride. 1,733,768; Oct. 29.
- Zinke, Alois, Graz, Austria, assignor to Felice Bensa, Genoa, Italy. Manufacturing chloroperylene quinones. 1,738,343; Dec. 3.
- Zinke, Alois, and K. Funke, Graz, Austria, assignors to F. Bensa, Genoa, Italy. Manufacture of highly-chlorinated perylenes. 1,713,362; May 14.
- Zinke, Carl J. (See Reeves, O. C., and Zinke.)
- Zinke-Roberts Co. (See Roberts, William C., assignor.)
- Zinkernagel, Richard, assignor to International Combustion Engineering Corporation, New York, N. Y. Traveling grate stoker. 1,738,749; Dec. 10.
- Zinkil, Roy H. (See Crane, C. R., 2d, and Zinkil.)
- Zinky, Edith M., Colorado Springs, Colo. Stocking. 1,731,696; Oct. 15.
- Zinn, David, New Hamburg, Ontario, Canada. Snowplow. 1,698,901; Jan. 15.
- Zinn, John E., et al. (See Leak, William, assignor.)
- Zinnbauer, William E., Detroit, Mich. Lock washer. 1,726,972; Sept. 3.
- Zinnow, Heinrich, and W. Sievers, Utica, N. Y. Exercising apparatus. 1,733,709; Oct. 29.
- Zins, Hubert, Wabasso, Minn. Veterinary obstetrical forceps. 1,703,050; Feb. 19.
- Zinsmeister, Walter K. (See McGinley, F. D., and Zinsmeister.)



- Zint, George, Wapakoneta, Ohio. Mechanical movement. 1,726,374; Aug. 27.
- Zint, George, Wapakoneta, Ohio. Signal. 1,735,709; Nov. 12.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Co., Toledo, Ohio. Electric griddle. Des. 77,869; Feb. 26.
- Ziola, Henry A., Toledo, Ohio. Radio dial control. 1,734,068; Nov. 5.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Electric-range-body construction. 1,699,038; Jan. 15.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Electric-range heating unit. 1,715,690; June 4.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Variable heat-control means for electrical heaters. 1,721,582; July 23.
- Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Multiple-heat electric cooker. 1,724,247; Aug. 13.
- Zipperstein, Abraham M., Chicago, Ill., assignor of one-third to I. I. Zipperstein. Drumstick. 1,739,275; Dec. 10.
- Zipperstein, Israel J. (See Zipperstein, Abraham M., assignor.)
- Ziser, George J. (See Chappell, M. L., and Ziser.)
- Ziska, Adam, jr. (See Coleman, H. H., and Ziska.)
- Zisterer, Emil C., Berwyn, assignor of one-third to H. G. Buchholz, La Grange, and one-third to G. J. Zisterer. Cicero, Ill. Variable-delivery oil pump. 1,701,485; Feb. 5.
- Zisterer, George J., et al. (See Zisterer, Emil C., assignor.)
- Zitella, William, Adamston, W. Va. Fume-treating device. 1,733,710; Oct. 29.
- Zitscher, Arthur. (See Laska, A. L., and Zitscher.)
- Zitscher, Arthur. (See Laska, L., and Zitscher.)
- Zitscher, Arthur, Offenbach-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Manufacturing ortho-aminodiarylethers. 1,703,915; Mar. 5.
- Zitscher, Arthur, and F. Muris, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Producing fast printings. 1,737,905; Dec. 3.
- Zitscher, Arthur, and W. Seidenfaden, Offenbach-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New nitrosamine-alkali-salts of halogenated and methyl-substituted amines. 1,724,062; Aug. 13.
- Zitzerman, Jacob, Brooklyn, N. Y. Furniture-covering-pad connector. 1,712,320; May 7.
- Zitzerman, Jacob, New York, N. Y. Container and server for spreads. 1,741,089; Dec. 24.
- Zitzmann, George, Yonkers, N. Y. Ignition tester gauge. 1,735,593; Nov. 12.
- Zizania, Paul T., Belmar, N. J. Beach-protecting and beach-building structure. 1,721,893; July 23.
- Zizania, Paul T., Belmar, N. J. Apparatus for spray drying liquid materials. 1,730,048; Oct. 1.
- Zizka, Frank, Whitman, N. Dak. Display device. 1,701,651; Feb. 12.
- Zlatnik, Frank, assignor to Globe Foundry & Machine Co., Globe, Ariz. Sectional mold. 1,708,646; Apr. 9.
- Zobel, Otto J., New York, N. Y., assignor to American Telephone and Telegraph Company. Distortion compensator. 1,701,552; Feb. 12.
- Zobel, Otto J., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical network. 1,720,777; July 16.
- Zobel, Otto J., New York, N. Y., assignor to American Telephone and Telegraph Company. Selective constant resistance network. 1,724,987; Aug. 20.
- Zogbaum, Ferdinand, New Rochelle, N. Y. Safety connection for high-tension cables. 1,727,387; Sept. 10.
- Zohe, Ludwig A., assignor to Millard R. Ames, Syracuse, N. Y. Minnow pail. 1,709,424; Apr. 16.
- Zohlen, John P., Sheboygan, Wis. Dilator. 1,737,488; Nov. 26.
- Zokelt, Carl G. (See Molesworth, C. E., Dudman, and Zokelt.)
- Zoll, Karl, 3d, Hatzfeld, Eder, Germany. Hydraulic engine built in a siphon piping. 1,704,417; Mar. 5.
- Zolleis, John G., Germantown, Pa. Valve fixture. 1,704,851; Mar. 12.
- Zoller, Albert E., and C. L. Fulghum, Tiffin, Ohio. Railroad-platform bridge. 1,740,937; Dec. 24.
- Zoller, Albert E., and C. L. Fulghum, assignors to Quincy Elevator Gate Company, Tiffin, Ohio. Electric-motor speed control. 1,730,797; Oct. 8.
- Zollinger, John. (See Hause, F. E., and Zollinger.)
- Zöllner, Clemens. (See Schoeller, W., and Zöllner.)
- Zoobley, Waldemar, Dallas, Tex. Amusement device. 1,714,749; May 28.
- Zook, John S., assignor to Burgess Battery Company, Madison, Wis. Battery hand lamp. Des. 78,186; Apr. 2.
- Zook, John S., assignor to Burgess Battery Company, Madison, Wis. Battery hand lamp. 1,701,093; Feb. 5.
- Zoppa, Joseph J., Grand Rapids, Mich. Fish-landing rig. 1,709,298; Apr. 16.
- Zorgo, Desider, Montreal, Quebec, Canada, assignor of one-fourth to M. Szakacs, Brooklyn, N. Y. Electric flatiron. 1,706,834; Mar. 26.
- Zoul, Charles V., Santa Monica, Calif., assignor, by mesne assignments, to The Celite Company. Dehydrating oils, fats, etc. 1,701,092; Feb. 5.
- Zrazik, Antoni, Chicago, Ill. Rail. 1,735,227; Nov. 12.
- Zsigmondy, Adalbert, Berlin, Germany. Stamping device, especially for stamping pieces out of plates of artificial born. 1,739,200; Dec. 10.
- Zubaty, Joseph, Flint, Mich. Instrument board. 1,703,330; Feb. 26.
- Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Illuminated panel. 1,697,802; Jan. 1.
- Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Heat indicator. 1,717,645; June 18.
- Zubaty, Joseph, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich. Instrument panel. 1,723,113; Aug. 6.
- Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Speedometer calibration. 1,726,518; Aug. 27.
- Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Heat indicator for internal-combustion engines. 1,731,207; Oct. 8.
- Zubaty, Joseph, and A. Champion, Flint, assignors to General Motors Corporation, Detroit, Mich. Indicating instrument. 1,713,860; May 21.
- Zuber, Robert B., Birmingham, Ala. Shears. 1,712,723; May 14.
- Zuber, Thomas E. (See Cargle, Benjamin F., assignor.)
- Zubler, Ernst, assignor to Aktiengesellschaft, Brown Boveri & Cie, Baden, Switzerland. Turbine-blade lacing. 1,723,321; Aug. 6.
- Zubli, Justus C., Bremerton, Wash. Stenciling. 1,719,459; July 2.
- Zublin, John A., Los Angeles, Calif. Multistage pump. 1,697,299; Jan. 1.
- Zublin, John A., Los Angeles, Calif. Packing ring. 1,700,012; Jan. 22.
- Zublin, John A., assignor to Universal Engineering Company, Los Angeles, Calif. Apparatus for transforming continuous rotations of drill columns into reciprocating motions of a cutter. 1,702,757; Feb. 19.
- Züblin, Julius, Singer-on-the-Hohentwiel, Baden, Germany. Apparatus for casting metal. 1,734,786; Nov. 5.
- Zublin, Maria N., Los Angeles, Calif. Reducing and light-treatment cabinet. 1,718,770; June 25.
- Zubracka, Stephen, et al. (See O'Brien, Wilfred G., assignor.)
- Zuccarello, William E., and J. C. Johnson, Delray, Fla. Engine. 1,704,236; Mar. 5.
- Zucchelli, Mario, Hillsdale, N. J. Dispensing apparatus. 1,723,497; Aug. 6.
- Zucchetti, James S. (See Barthel, O. E., and Zucchetti.)
- Zucker, Richard D., Mount Vernon, N. Y., assignor, by mesne assignments, to The Humidor Corporation, Union City, N. J. Humidor. 1,704,908; Mar. 12.
- Zuckerman, Adolph M., assignor to R. Hoe & Co., Inc., New York, N. Y. Delivery mechanism. 1,709,386; Apr. 16.
- Zuckerman, Adolph M., assignor to R. Hoe & Co., Inc., New York, N. Y. Slow-down delivery. 1,713,016; May 14.
- Zuckerman, Roscoe C. (See Scheckler, Gordon F., assignor.)
- Zuckerman, Roscoe C., Stockton, Calif. Closure shim for potato sacks. 1,730,260; Oct. 1.
- Zuckerman, Roscoe C., Stockton, Calif. Potato cleaner. 1,738,813; Nov. 26.
- Zuckerman, Roscoe C., Stockton, Calif. Potato digger. 1,736,960; Nov. 26.
- Zuckweiler, Gustave C., San Diego, Calif. Combined eighth bend and clean-out pipe fitting. 1,741,899; Dec. 31.
- Züger, Julius, Zug, Switzerland, assignor to Landis & Gyr A.-G. Meter and magnet core. 1,741,751; Dec. 31.
- Zuhars, Benjamin C., Martins Ferry, Ohio. Door and door-frame structure for ovens. 1,709,105; Apr. 16.
- Zuhars, Benjamin C., Martins Ferry, Ohio. Cook-top structure for gas ranges. 1,719,413; July 2.
- Zuker, Raymond E., Pittsburgh, Pa. Protective cover. 1,718,623; June 25.
- Zulauf, John C. (See Swope, L. M., and Zulauf.)
- Zuleger, John C., Great Kills, N. Y. Lamp shade. 1,721,540; July 23.
- Zullo, Samuel, Jersey City, N. J. Watchcase. 1,722,514; July 30.
- Zullo, Samuel, Jersey City, N. J. Telephone-message apparatus. 1,738,551; Dec. 10.
- Zulu Toy Manufacturing Company. (See Toeller, George W., assignor.)
- Zulucta, Joaquin, Renedo de Esqueva, Spain. Multiple-shed loom. 1,697,155; Jan. 1.
- Zumbalen, Joseph H. (See Rose, Dalton K., assignor.)
- Zumbro, Frank R., and F. Shenton, assignors to Frick Company, Waynesboro, Pa. Switch. 1,739,435; Dec. 10.
- Zumwalt, Ivy G., Colusa, Calif. Self-propelled rice harvester. 1,736,897; Nov. 26.
- Zünd-Burguet, Adolphe, Paris, France. Pump for massage apparatus. 1,714,898; May 28.
- Zurbrigg, Ethel M., Toronto, Ontario, Canada. Electric chemical vaporizer. 1,728,885; Sept. 17.
- Zürch, Hermann, Leipzig, Germany. Key box of type-setting and casting machines. 1,713,732; May 21.
- Zureck, Jacob, New Britain, Conn. Clothesline and telegraph pole. 1,728,164; Sept. 10.



Zusmer, Moses, Bronx, N. Y. Tape-holding apparatus. 1,731,963; Oct. 15.  
 Zusmer, Moses, Bronx, N. Y. Fish-salting apparatus. 1,734,844; Nov. 5.  
 Zussman, Itzick, Philadelphia, Pa. Umbrella attachment. 1,706,341; Mar. 19.  
 Zweben, Samuel, New York, N. Y. Apparel garment. 1,708,713; Apr. 9.  
 Zweibel, Lewis F. (See Haefner, F. S. and Zweibel).  
 Zweig, Joseph, Brooklyn, assignor to Metropolitan Lamp Co. Inc., New York, N. Y. Lamp. Des. 78,956; July 9.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lighting appliance. Des. 78,996; July 16.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lighting appliance. Des. 78,997; July 16.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Clock case or article of analogous nature. Des. 79,313; Aug. 27.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Holder for glass bowls or the like. Des. 79,346; Sept. 3.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Candlestick base or article of analogous nature. Des. 79,347; Sept. 3.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lighting-fixture plate or article of analogous nature. Des. 79,451; Sept. 17.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lighting-fixture wall bracket. Des. 79,579; Oct. 8.  
 Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Combined lamp and clock case. Des. 79,580; Oct. 8.  
 Zweigbergk, Thorsten, London, England. Electric transmission system. 1,706,276; Mar. 19.  
 Zwetsch, Edwin W., Alexander, N. Y. Electric-lamp socket. 1,721,865; July 16.  
 Zwez, Richard, La Ceiba, Honduras. Needle. 1,717,297; June 11.  
 Zwick, Jacob, Neustadt-on-the-Hardt, Germany. Nail-brush. 1,727,497; Sept. 10.

Zwicke, William A., Ozone Park, assignor to Richard A. Rutherford Co., Inc., New York, N. Y. Ticker attachment. 1,741,267; Dec. 31.  
 Zwicker, Christian, Esslingen-on-the-Neckar, Germany. Variable condenser. 1,733,711; Oct. 29.  
 Zwicky, Melchior, Berkshire Heights, assignor to Textile Machine Works, Wyomissing, Pa. Slack-preventing guide device for knitting machines. 1,701,169; Feb. 5.  
 Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Safety brake stop for knitting machines. 1,711,301; Apr. 30.  
 Zwicky, Melchior, Berkshire Heights, and E. Richter, assignors to Textile Machine Works, Wyomissing, Pa. Drive for full-fashioned-knitting machines. 1,706,645; Mar. 26.  
 Zwinkel, Karl M. E., Danville, N. J. Tunnel airboat. 1,703,916; Mar. 5.  
 Zworykin, Vladimir K., Wilkensburg, Pa. Variable light source. 1,709,647; Apr. 16.  
 Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Interferometer microphone. 1,709,762; Apr. 16.  
 Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Light-responsive relay. 1,709,763; Apr. 16.  
 Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Television system. 1,715,732; June 4.  
 Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Photographic sound recording. 1,732,874; Oct. 22.  
 Zworykin, Vladimir K., Swissvale, and E. B. Shand, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Corporation. Pumping system for metal-tank rectifiers. 1,716,160; June 4.  
 Zybach, Frank L., Grand Island, Nebr. Self-cleaning tractor lug. 1,727,625; Sept. 10.  
 Zybach, Frank L., Grand Island, Nebr., assignor to Chase Plow Company. Automatic tractor guide. 1,731,220; Oct. 8.

## ALPHABETICAL LIST OF DISCLAIMERS

Adams, Joseph H., Brooklyn, N. Y. Disclaimer filed by assignee by mesne assignments, The Texas Company. No. 1,327,263; disclaimer filed Mar. 27, 1929; v. 381; p. 223.  
 Albertine, Herman, East Rutherford, N. J. Disclaimer filed by the patentee, and the assignee by mesne assignments. Rogers Products Co., Inc., No. 1,633,356; disclaimer filed Apr. 30, 1929; v. 383; 551.  
 Angell, Charlie J., Plains, Kans. Disclaimer filed by Christie D. Linville, administratrix of said Angell, and the Ohio Cultivator Company (not of record) licensee, No. 1,327,263; disclaimer filed Mar. 27, 1929; v. 381; p. 983.  
 Applin, Harry, Ambler, Pa. Disclaimer filed by the assignee, Ambler Asbestos Company. No. 1,623,612; disclaimer filed July 3, 1929; v. 384; p. 728.  
 Ballard, Milton H., Beverly, and Thomas H. Seely, Melrose, Mass. Disclaimer filed by the assignee, United Shoe Machinery Corporation. No. 1,674,085; disclaimer filed Feb. 16, 1929; v. 384; p. 1.  
 Bentson, Hans J., Wintrop Harbor, Ill. Disclaimer filed by the assignee by mesne assignments, Austin Machinery Corporation. No. 1,380,944; disclaimer filed Mar. 7, 1929; v. 381; p. 223.  
 Bodine, Alfred V., Bridgeport, Conn. Disclaimer filed by the patentee, assignee, Dictaphone Corporation, assenting and concurring. No. 1,725,332; disclaimer filed Nov. 19, 1929; v. 389; p. 267.  
 Boyd, Allen, Sioux City, Iowa. Disclaimer filed by the patentee. No. 1,642,536; disclaimer filed Apr. 17, 1929; v. 382; p. 6.  
 Brigham, Vernon T., Des Moines, Iowa. Disclaimer filed by patentee. No. 1,620,005; disclaimer filed Mar. 18, 1929; v. 381; p. 223.  
 Broadmeyer, Albert, Harrisburg, Pa. Disclaimer filed by the patentee and the assignee, W. O. Hickok Mfg. Co. No. 1,632,945; disclaimer filed Oct. 11, 1929; v. 387; p. 965.  
 Calbeck, John H., Joplin, Mo. Disclaimer filed by the patentee and the assignee, The Eagle-Picher Lead Company. No. 1,669,857; disclaimer filed Apr. 23, 1929; v. 382; p. 6.  
 Campbell, Sterling H., St. Louis, Mo. Disclaimer filed by the assignee, Railway Devices Company. No. 1,600,311; disclaimer filed May 4, 1929; v. 382; p. 574.  
 Carpenter, Warren W., Queens, N. Y. Disclaimer filed by the assignee, Western Electric Company, Incorporated. No. 1,605,921; disclaimer filed Oct. 16, 1929; v. 388; p. 5.  
 Clark, Edgar H., Richmond Hill, N. Y. Disclaimer filed by the assignee, Western Electric Company, Incorporated. No. 1,567,040; disclaimer filed Feb. 26, 1929; v. 380; p. 252.  
 Collidge, William D., Schenectady, N. Y. Disclaimer filed by the assignee, General Electric Company. No. 1,082,933; disclaimer filed Jan. 25, 1929; v. 379; p. 1.

Cruse, Amandus H., New York, N. Y. Disclaimer filed by the assignee by mesne assignments, R. Hoe & Co. Inc. (and Guaranty Trust Company of New York, not of record). No. 1,117,980; disclaimer filed Apr. 26, 1929; v. 382; p. 290.  
 Davison, Clarence Marion, Baltimore, Md. Disclaimer filed by the assignee by mesne assignments, Joseph Mercadante. No. 1,634,023; disclaimer filed Jan. 29, 1929; v. 379; p. 212.  
 Day, William H., East Haven, Conn. Disclaimer filed by the assignee by mesne assignments, Remington Rand Inc. No. 1,675,331; disclaimer filed Nov. 18, 1929; v. 389; p. 1.  
 Drake, George W., Cleveland Heights, and Max E. Lange, East Cleveland, Ohio. Disclaimer filed by the assignee, The Warner and Swasey Company. No. 1,575,742; disclaimer filed Jan. 10, 1929; v. 378; p. 907.  
 Einstein, Sol and Lester E. Nenniger, Cincinnati, and Walter D. Archea, Norwood, Ohio. Disclaimer filed by the patentees, assignee by mesne assignments, Cincinnati Grinders Incorporated, assenting and concurring. No. 1,575,558; disclaimer filed Mar. 8, 1929; v. 381; p. 223.  
 Foster, Lee R., River Edge, N. J. Disclaimer filed by the assignee, The Western Union Telegraph Company, the patentee said Foster, concurring. No. 1,637,384; disclaimer filed Nov. 9, 1929; v. 389; p. 1.  
 Fynn, Valère A., St. Louis, Mo. Disclaimer filed by the patentee. No. 1,599,758; disclaimer filed Feb. 16, 1929; v. 380; p. 1.  
 Fynn, Valère A., St. Louis, Mo. Disclaimer filed by the assignee, Gisholt Machine Company. No. 1,446,557; disclaimer filed Sept. 13, 1929; v. 387; p. 1.  
 Goodrum, Charles L., New York, and Henry P. Clausen, Mount Vernon, N. Y. Disclaimer filed by the assignee, Western Electric Company, Incorporated. No. 1,387,386; disclaimer filed Mar. 5, 1929; v. 380; p. 494.  
 Greer, Butler F., San Francisco, Calif. Disclaimer filed by the patentee. No. 1,460,716; disclaimer filed Apr. 27, 1929; v. 382; p. 290.  
 Himmer, Vitalis, Mountain Lakes, N. J. Disclaimer filed by the patentee. No. 1,593,406; disclaimer filed July 10, 1929; v. 384; p. 949.  
 Hoffmann, Henry L., East Orange, N. J. Disclaimer filed by the assignee, Western Electric Company, Incorporated. No. 1,576,747; disclaimer filed Oct. 16, 1929; v. 388; p. 4.  
 Jaeger, Alphons O., Crafton, Pa. Disclaimer filed by the assignee, The Selden Company. No. 1,660,511; disclaimer filed Feb. 21, 1929; v. 380; p. 252.  
 Johannesen, Svend E., Pittsfield, Mass. Disclaimer filed by the assignee, General Electric Company. No. 1,698,634; disclaimer filed Sept. 7, 1929; v. 387; p. 1.  
 Kerr, Howard J., Westfield, N. J., and James E. Trainer, Barborton, Ohio. Disclaimer filed by the assignee, The Bacocek & Wilcox Company. No. 1,715,037; disclaimer filed Oct. 23, 1929; v. 388; p. 282.



- Kerr, Mark B., Rosebank, N. Y. Disclaimer filed by the assignee, Western Electric Company, Incorporated. No. 1,577,033; disclaimer filed Feb. 28, 1929; v. 380; p. 495.
- Kruse, Peter, Brooklyn, N. Y. Disclaimer filed by the assignee by mesne assignments, E. W. Bliss Company. Nos. 1,234,182 and 1,430,743; disclaimer filed Apr. 1, 1929; v. 381; p. 486. (Two cases.)
- Kuehl, Herman W., Chicago, Ill. Disclaimer filed by the assignees, Herman M. Kuehl and Harry W. Anderson, a copartnership. No. 1,547,764; disclaimer filed Oct. 24, 1929; v. 388; p. 281.
- Lewis, Wilbur S., Cleveland, and John C. Murray, Lakewood, Ohio. Disclaimer filed by the assignee, The Nestle Lemur Company. No. 1,611,466; disclaimer filed July 27, 1929; v. 385; p. 510.
- Lundin, Trued B., Philadelphia, Pa., and James F. McGhee, Moorestown, N. J. Disclaimer filed by the assignee, American Machinery Co., Inc., and the exclusive licensee, American Machine & Foundry Co. (not of record). No. 1,648,554; disclaimer filed Apr. 30, 1929; v. 382; p. 574.
- Massing, Charles A., Millcreek Township, Erie County, Pa. Disclaimer filed by the assignee, The Griswold Manufacturing Company. No. 1,554,360; disclaimer filed Jan. 14, 1929; v. 379; p. 212.
- Mershon, Ralph D., New York, N. Y. Disclaimer filed by the patentee, licensee, The Amrad Corporation, acquiescing. No. 1,141,402; disclaimer filed Nov. 19, 1929; v. 389; p. 267.
- Miller, William J., Swissvale, Pa. Disclaimer filed by the assignee, Hartford-Empire Company. No. 1,684,064; disclaimer filed Oct. 4, 1929; v. 387; p. 719.
- Moore, Oscar W., Chicago, Ill. Disclaimer filed by the assignee, The Motometer Company, Inc. No. 1,580,151; disclaimer filed Apr. 16, 1921; v. 381; p. 983.
- Olds Products Co., The, Chicago, Ill. Disclaimer filed by the registrant, T. M. No. 105,322; disclaimer filed June 20, 1929; v. 383; p. 551.
- Parks, Paul B., Oak Park, Ill. Disclaimer filed by the assignee, Vapor Car Heating Company, Inc. No. 1,644,443; disclaimer filed Feb. 18, 1929; v. 380; p. 1.
- Peiler, Karl E., West Hartford, Conn. Disclaimer filed by the assignee, Hartford-Empire Company, and ratified by the patentee. No. 1,589,304; disclaimer filed June 11, 1929; v. 384; p. 5.
- Primrose, John, New York, N. Y. Disclaimer filed by the patentee and the assignee, Foster Wheeler Corporation. No. 1,693,156; disclaimer filed Oct. 10, 1929; v. 387; p. 965.
- Ross, Frederick N., Detroit, Mich. Disclaimer filed by the patentee and approved by the assignee, Button Attaching Machine Co. No. 1,606,185; disclaimer filed Jan. 14, 1929; v. 378; p. 907.
- Sargent, Don A., Bangor, Me. Disclaimer filed by the assignee, Northern Trailer Company, and the exclusive assignee, Maine Steel Products Co. No. 1,550,573; disclaimer filed June 11, 1929; v. 384; p. 5.
- Selden, James M., Pittsburgh, Pa. Disclaimer filed by the patentee, assignee, The Selden Company, assenting. No. 1,647,317; disclaimer filed Dec. 31, 1928; v. 378; p. 508.
- Sosa, Augustus M., and Hans Baerbalck, Cincinnati, Ohio. Disclaimer filed by the assignee, The American Tool Works Co. No. 1,699,816; disclaimer filed Oct. 18, 1929; v. 388; p. 281.
- Terry, Fred D., Pasadena, Calif. Disclaimer filed by the patentee and the assignee, Terry Fly Spray Company. No. 1,599,851; disclaimer filed Oct. 14, 1929; v. 388; p. 5.
- Vinton, John H., deceased, Keene, N. H. Disclaimer filed by the assignee by mesne assignments, United Shoe Machinery Corporation. Re. No. 16,408; disclaimer filed Nov. 25, 1929; v. 389; p. 531.
- Walther, Charles W., Brooklyn, N. Y. Disclaimer filed by the assignee, Walther & Company, Inc. Des. No. 71,537; disclaimer filed Sept. 13, 1929; v. 387; p. 1.
- Walther, George, Montgomery County, near Dayton, Ohio. Disclaimer filed by the assignee, The Dayton Steel Foundry Company, patentee concurring. No. 1,665,485; disclaimer filed Aug. 2, 1929; v. 385; p. 516.
- Welter, Gustave, New Haven, Conn. Disclaimer filed by the assignee, The Bigelow Company, patentee concurring. No. 1,667,758; disclaimer filed June 10, 1929; v. 384; p. 5.
- Williams, John K., Akron, Ohio. Disclaimer filed by the assignee by mesne assignments, National-Erie Company. No. 1,100,934; disclaimer filed Sept. 25, 1929; v. 387; p. 459.
- Wine, William E., Toledo, Ohio. Disclaimer filed by patentee, assignee, The Wine Railway Appliance Co., consenting. No. 1,662,651; disclaimer filed Feb. 4, 1929; v. 379; p. 444.
- Winsor, Irwin B., Los Angeles, Calif. Disclaimer filed by assignee by mesne assignments, Joseph G. Richardson. No. 1,621,046; disclaimers filed Apr. 17, 1929; v. 382; p. 6; and Feb. 18, 1929; v. 380; p. 494. (Two cases.)
- Winters Alexander F., and Basil R. Crampton, Grand Rapids, Mich. Disclaimer filed by the patentees. No. 1,385,102; disclaimer filed Oct. 24, 1929; v. 388; p. 281.
- Wolf, Fred W., Chicago, Ill. Disclaimer filed by assignee by mesne assignments, Frigidaire Corporation. No. 1,337,175; disclaimer filed Jan. 28, 1929; v. 379; p. 212.
- Woodward, Marion H., Brooklyn, N. Y. Disclaimer filed by the assignee, The Western Union Telegraph Company, patentee, said Woodward, concurring. No. 1,699,418; disclaimer filed Nov. 9, 1929; v. 389; p. 1.



# ALPHABETICAL LIST OF INVENTIONS

- Abradant, Metallic. D. J. Mayer. 1,699,802; Jan. 15.  
 Abrading and polishing tool. H. A. Swan. 1,723,821; Aug. 6.  
 Abrading apparatus. R. A. Skriba. 1,715,574; June 4.  
 Abrading device. J. G. Hudspeth. 1,707,162; Mar. 26.  
 Abrading device. E. C. Schacht. 1,736,056; Nov. 19.  
 Abrading device. W. Stever. 1,736,098; Nov. 19.  
 Abrading machine. D. G. Ackerly. 1,724,544; Aug. 13.  
 Abrading machine. A. D. Willhauck. 1,698,807; Jan. 15.  
 Abrading wheel. A. G. Mosher. 1,736,355; Nov. 19.  
 Abrasive compound. J. N. Bourg and W. A. Richards. 1,731,608; Oct. 15.  
 Abrasive covering for sanders. J. F. A. Davis. 1,706,351; Mar. 19.  
 Abrasive device. F. O. Albertson and G. Olsen. 1,724,742; Aug. 13.  
 Abrasive device. F. O. Albertson and G. Olsen. 1,736,869; Nov. 26.  
 Abrasive disk. A. J. Doermann. 1,733,723; Oct. 29.  
 Abrasive fabric, Metallic. R. B. Kingman. 1,727,346; Sept. 10.  
 Abrasive fabric, Steel-wool. W. H. Robbins. 1,698,511; Jan. 8.  
 Abrasive fabric, Waterproof. F. J. Crupi. Re17,491; Nov. 19.  
 Abrasive materials, Reclamation of. S. F. Walton. 1,718,264; June 25.  
 Abrasive to grinding machines, Feeding. J. P. Crowley. 1,724,259; Aug. 13.  
 Abrasive, Waterproof. H. R. Power. Re17,494; Nov. 19.  
 Abrasive wheel. J. R. Gammeter. 1,738,472; Dec. 3.  
 Abrasive wheel. H. K. Spencer. 1,698,685; Jan. 8.  
 Abrasive wheel and making the same. J. R. Gammeter. 1,709,820; Apr. 16.  
 Abrasive wheel and method of manufacture. H. R. Simonds. 1,732,287; Oct. 22.  
 Abrasive wheel, Segmental. G. N. Jeppson. 1,734,012; Oct. 29.  
 Abrasive wheel, Segmental. T. Larsson and H. W. H. Beth. 1,729,585; Sept. 24.  
 Absorbent material, Production of. T. P. Hilditch and H. J. Wheaton. 1,739,305; Dec. 10.  
 Absorbent pad. H. R. Williams. 1,702,530; Feb. 19.  
 Absorbing agents containing silica, Manufacture and use of. G. E. Van Nes. 1,715,439; June 4.  
 Absorption. J. A. Campbell. 1,736,070; Nov. 19.  
 Absorption apparatus. G. B. Taylor. 1,708,685; Apr. 9.  
 Absorption cooler. M. Alex. 1,710,333; Apr. 23.  
 Absorption machine. E. Altenkirch. 1,700,276; Jan. 29.  
 Absorption machine. E. Altenkirch. 1,735,487; Nov. 12.  
 Absorption mechanism. M. H. Martin. 1,732,133; Oct. 15.  
 Absorption refrigerating apparatus, Intermittent. C. H. Hapgood. 1,718,690; June 25.  
 Accelerating device. E. M. Clayton and C. H. Hodgkins. 1,716,164; June 4.  
 Accelerator. C. Nordell. 1,700,643; Jan. 29.  
 Accelerator and brake controller, Unitary. J. R. Vandivier. 1,706,049; Mar. 19.  
 Accelerator, Automatic. R. D. Moore. 1,719,718; July 2.  
 Accelerator controls, Foot rest for. H. Bailey. 1,733,854; Oct. 29.  
 Accelerator foot rest. H. J. Cocks. 1,715,336; May 28.  
 Accelerator for motor vehicles. G. Bailhe. 1,701,906; Feb. 12.  
 Accelerator for motor vehicles, Heel. F. Arzt and F. J. Fischer. 1,714,119; May 21.  
 Accelerator for the vulcanization of rubber. G. S. Whitby. 1,735,701; Nov. 12.  
 Accelerator, Rubber vulcanization. C. O. North. 1,732,770; Oct. 22.  
 Accelerator, Windmill. F. S. Nias. 1,718,869; June 25.  
 Accelerators for the vulcanization of rubber, Producing. L. B. Sebrell. 1,739,486; Dec. 10.  
 Accepting and rejecting machine, Automatic. T. W. Bryant. 1,738,634; Dec. 10.  
 Accessory, Automobile. J. Bindon. 1,710,807; Apr. 30.  
 Accordion reed bar. W. Romanoff. 1,716,835; June 11.  
 Accordion-strap attachment. V. Meneghetti. 1,739,011; Dec. 10.  
 Accordions, Bell attachment for. J. F. Libiez. 1,696,960; Jan. 1.  
 Accounting and filing system. S. Bromfield. 1,713,945; May 21.  
 Accounting apparatus. G. N. Lingham and H. W. Williams. 1,706,622; Mar. 26.  
 Accounting apparatus. E. L. Reller and J. H. Bruninge. 1,712,356; May 7.  
 Accounting apparatus and method. L. A. Watters and S. F. Lloyd. 1,736,334; Nov. 19.  
 Accounting machine. A. H. Hawley. 1,715,704; June 4.  
 Accounting machine. J. R. Peirce. 1,701,053; Feb. 5.  
 Accounting machine. J. R. Peirce. 1,741,201; Dec. 31.  
 Accounting machine. E. Schneider. 1,723,891; Aug. 6.  
 Accounting machines, Actuating-bar control for. W. W. Lasker. 1,705,982; Mar. 19.  
 Accounting machines, Transfer device for. J. W. Bryce. 1,723,499; Aug. 6.  
 Accounting machines, Zero-printing-suppression device for. J. W. Bryce. 1,702,628; Feb. 19.  
 Accounting method and apparatus. W. Bruhn. 1,736,339; Nov. 19.  
 Acetaldehyde, Manufacture of. C. N. Hand, T. W. Bartram, and A. H. Maude. 1,738,649; Dec. 10.  
 Acetaldehyde, Manufacture of. W. O. Herrmann and H. Deutsch. 1,714,783; May 28.  
 Acetate, Production of polymerized vinyl. W. O. Herrmann and W. Haehnel. 1,710,825; Apr. 30.  
 Acetic anhydride. H. Dreyfus. 1,735,958; Nov. 19.  
 Acetic anhydride, Manufacture of. H. Dreyfus. 1,735,956-7; Nov. 19.  
 Acetyl cellulose soluble in chloroform, Production of. W. Gruber. 1,711,314; Apr. 30.  
 Acetylcellulose, Solvent for. L. E. Clément. 1,713,997; May 21.  
 Acetylene-gas generator. C. W. Beck. 1,719,162; July 2.  
 Acetylene generator. C. J. Coberly, R. G. Wulff, and W. H. Holland. 1,723,679; Aug. 6.  
 Acetylene generator. C. D. Killian. 1,726,029; Aug. 27.  
 Acetylene generator, Automatic. E. Menz. 1,698,645; Jan. 8.  
 Acid alkyl esters, New process of preparing phenyl oxalyl acetic. R. H. Pritchett. 1,741,877; Dec. 31.  
 Acid and hydrogen, Catalytically manufacturing phosphoric. A. Mittasch and G. Wietzel. 1,732,373; Oct. 22.  
 Acid and its derivatives, Production of monocarboxylic. A. O. Jaeger. 1,714,956; May 28.  
 Acid and like processes, Production of benzoic. D. A. W. Fairweather, E. G. Beckett, and J. Thomas. 1,727,102; Sept. 3.  
 Acid and making it, 2-hydroxynaphthalene-8-monosulfo-6-carboxylic. F. Krecke. 1,734,259; Nov. 5.  
 Acid and making same, Ortho-carboxyamidoarylthioglycolic. N. Steiger, E. Hoffa, and H. Heyna. 1,712,365; May 7.  
 Acid and making same, 6-amino-5-acenaphthenecarboxylic. W. Eckert. 1,697,111; Jan. 1.  
 Acid anhydride from acetic acid, Manufacture and production of acetic. F. A. Henglein and F. Schleicher. 1,735,433; Nov. 12.  
 Acid compounds and product thereof, Producing alginate. L. L. Burgess. 1,729,993; Oct. 1.  
 Acid compounds, Producing ortho-acyl-benzoic. J. M. Tinker and I. Gubelmann. 1,713,569; May 21.  
 Acid, Concentrating sulphuric. W. H. Simonson and O. Mantius. 1,726,321; Aug. 27.  
 Acid concentration, Nitric. R. H. McKee. 1,740,549; Dec. 24.  
 Acid, Contact process for manufacturing sulphuric. H. F. Merriam. 1,737,320; Nov. 26.  
 Acid contained in flue gases, Process of using, and apparatus for the determination of the amount of carbonic. H. Grüss. 1,701,181; Feb. 5.  
 Acid derivative, Barbituric. F. Boedecker. 1,739,662; Dec. 17.  
 Acid esters of cellulose of high viscosity, Manufacture of fatty. H. Dreyfus. 1,708,787; Apr. 9.  
 Acid, Esters of silicic. M. Müller-Cunradi. 1,725,620; Aug. 20.  
 Acid from furfural by electrolysis, Preparing maleic and succinic. T. Yabuta. 1,709,297; Apr. 16.  
 Acid from polluted fluorspars, Production of pure hydrofluoric. M. Buchner. 1,701,225; Feb. 5.  
 Acid from waste gases, Recovery of sulphurous. C. Hansen. 1,740,342; Dec. 17.  
 Acid intermediates, 4'-halogen-2-benzoylbenzoic. W. Müller and E. Appenzeller. 1,699,671; Jan. 22.  
 Acid, Making anthraquinone-disulphonic. D. G. Rogers and H. T. Stowell. 1,721,317; July 16.  
 Acid, Making carbolic. S. J. Lloyd and A. M. Kennedy. 1,735,327; Nov. 12.  
 Acid, Making chromic. M. J. Udy. 1,739,107; Dec. 10.  
 Acid, Making hydrochloric. G. P. Adamson. 1,729,431; Sept. 24.  
 Acid, Making 2-naphthol-3-carboxylic. P. Dieterle. 1,725,394; Aug. 20.  
 Acid, Manufacture of acetic. H. Dreyfus. 1,697,109; Jan. 1.  
 Acid, Manufacture of acetic. H. W. Matheson. Re17,377; July 16.  
 Acid, Manufacture of arsenic. F. Ullmann and G. Trendelenburg. 1,699,823; Jan. 22.  
 Acid, Manufacture of glyoxal and glycolic. E. E. Ayres, jr. 1,741,394; Dec. 31.  
 Acid, Manufacture of hydrocyanic. R. Fick. 1,712,297; May 7.  
 Acid, Manufacturing glacial acetic. A. H. Maude. 1,722,532; July 30.  
 Acid mixture, Cyanogen-chloride hydrocyanic. G. H. Buchanan. 1,738,280; Dec. 3.  
 Acid of the fatty-aromatic series and making same, carboxylic. G. Kalischer and H. Scheyer. 1,721,560; July 23.  
 Acid, Ortho-carboxyamidothioglycolic. N. Steiger, E. Hoffa, and H. Heyna. 1,712,366-7; May 7.



- Acid, Process and apparatus for the manufacture of nitric. G. B. Taylor and F. C. Zeisberg. 1,735,342; Nov. 12.
- Acid process, Contact sulphuric. A. O. Jaeger. 1,741,310; Dec. 31.
- Acid, Producing benzoic. G. Barsky. 1,734,029; Nov. 5.
- Acid, Producing benzoic. H. W. Daudt. 1,712,753; May 14.
- Acid, Producing hydrocyanic. M. J. Brown. 1,702,761; Feb. 19.
- Acid, Production of acetic. H. Dreyfus. 1,704,965; Mar. 12.
- Acid, Production of formic. W. C. Arsem. 1,740,140; Dec. 17.
- Acid, Production of mucic. A. W. Schorger. 1,718,837; June 25.
- Acid, Production of o-nitrochlorbenzol-p-sulphonic. H. W. Hillyer. 1,701,867; Feb. 5.
- Acid reaction products from oil, Removing. J. C. Black. W. D. Rial, and J. R. McConnell. 1,725,611-12; Aug. 20.
- Acid, Recovery of concentrated acetic. H. Suida. 1,697,738; Jan. 1.
- Acid, Rectification of acetic. G. F. Legendre. 1,698,798; Jan. 15.
- Acid-resisting apparatus. G. D. Knight. 1,739,843; Dec. 17.
- Acid-resisting materials, Porous. A. Z. Pedersen. 1,732,140; Oct. 15.
- Acid sodium pyrophosphate, Production of. J. N. Carothers and C. F. Booth. 1,699,093; Jan. 15.
- Acid, Solution of ammonium salt of hydroxyacetylaminophenylarsenic. E. Fournau. 1,697,910; Jan. 8.
- Acid-sulphite-pulp process. R. B. Wolf. 1,699,556; Jan. 22.
- Acid, Sulphuric. H. F. Merriam. 1,728,213; Sept. 17.
- Acid, Utilizing carbonic. H. Dehottay. 1,727,865; Sept. 10.
- Acidity, Detecting and correcting mouth. J. O. McCall. 1,717,723; June 18.
- Acids, Alkyl and aralkyl resorcinol carboxylic. H. Stenzl. 1,697,332; Jan. 1.
- Acids and making same, Alkaminesters of the ortho-amino-benzoic. O. Eisleb. 1,704,660; Mar. 5.
- Acids and making same, Condensed aromatic sulfonic. I. C. Somerville. 1,722,904; July 30.
- Acids and making the same, Alpha-di(methyl-amino)-alpha-dihydroxy-anthraquinone disulphonic. R. E. Schmidt and W. Trautner. 1,702,022; Feb. 12.
- Acids and making the same, Homonuclear amino-alkyl-amino-anthraquinone sulphonic. K. Weinand. 1,735,147; Nov. 12.
- Acids and other products from petroleum, Making organic. C. Ellis. 1,697,264; Jan. 1.
- Acids and preparing them, Benzanthrone carboxylic. G. Kränzlein and H. Vollmann. 1,740,771; Dec. 24.
- Acids and the salts thereof, Manufacture of petroleum-sulphonic. P. I. Schestakoff. 1,706,940; Mar. 26.
- Acids, Bleaching fatty. A. Godal. 1,740,012; Dec. 17.
- Acids, Electrolytic desulphonation of anthraquinone sulphonic. A. J. Hallwood. 1,724,928; Aug. 20.
- Acids, glycerin, and the like, Apparatus for distillation of fatty. W. Gensecke. 1,713,431; May 14.
- Acids, Halogenated dinaphthyl-dicarboxylic. R. Herz and W. Zerweck. 1,723,167; Aug. 6.
- Acids, Manufacture of alkylated aromatic sulphonic. F. Günther and J. Hetzer. 1,737,792; Dec. 3.
- Acids, Manufacture of fatty. H. Weyland and S. Deichsel. 1,703,129; Feb. 26.
- Acids, Manufacture of gluconic. H. T. Herrick and O. E. May. 1,726,067; Aug. 27.
- Acids, Preparing alpha naphthylamine sulphonic. I. Gubelman and J. M. Tinker. 1,728,607; Sept. 17.
- Acids, Preparing alpha-aminoanthraquinone-beta-carboxylic. K. Wilke. 1,698,900; Jan. 15.
- Acids, Producing pure. H. Frischer. 1,733,152; Oct. 29.
- Acids, Production of lactic and acetic. W. H. Peterson and E. B. Fred. 1,723,298; Aug. 6.
- Acids, resins, bitter substances, and mucilage from oils and fats, Extracting fatty. K. F. Wilhelms. 1,729,809; Oct. 1.
- Acoustic apparatus. L. de Forest and J. L. Reynolds. 1,701,911; Feb. 12.
- Acoustic apparatus. E. C. Wente. 1,722,347; July 30.
- Acoustic-control wall. R. W. James. 1,738,654; Dec. 10.
- Acoustic device. C. L. Goodrum. 1,708,943; Apr. 16.
- Acoustic device. A. M. Halliwell. 1,731,460; Oct. 15.
- Acoustic device. H. C. Harrison. 1,726,105; Aug. 27.
- Acoustic device. H. C. Harrison. 1,730,425; Oct. 8.
- Acoustic device. H. C. Harrison. 1,733,596; Oct. 29.
- Acoustic device. G. R. Lum. 1,700,441; Jan. 29.
- Acoustic device. D. M. Mueller. 1,719,437; July 2.
- Acoustic device. V. A. Schlenker. 1,738,322; Dec. 3.
- Acoustic device. T. C. Sedgwick. 1,711,697; May 7.
- Acoustic device. A. L. Thurais. 1,700,457; Jan. 29.
- Acoustic device. R. L. Wegel. 1,704,354; Mar. 5.
- Acoustic device. E. C. Wente. 1,707,545; Apr. 2.
- Acoustic device. E. S. Wente. 1,722,027; July 23.
- Acoustic diaphragm. N. Baldwin. 1,701,523; Feb. 12.
- Acoustic diaphragm. C. A. Hartmann. 1,721,625; July 23.
- Acoustic diaphragm. N. H. Holland. 1,700,530; Jan. 29.
- Acoustic diaphragm. N. H. Holland. 1,719,472; July 2.
- Acoustic diaphragm. L. Stevens. 1,729,407; Sept. 24.
- Acoustic instrument. H. J. Round. 1,732,029; Oct. 15.
- Acoustic panel. M. Mazer. 1,703,011; Feb. 19.
- Acoustic panel. M. Mazer. 1,721,461; July 16.
- Acoustic transformer. P. A. Robbins. 1,750,530-2; Oct. 8.
- Acoustical apparatus. H. I. Kent. 1,736,042; Nov. 19.
- Acoustical device. J. W. Gonce. 1,717,202; June 11.
- Acoustical device. W. H. Pumphrey. 1,709,485; Apr. 16.
- Acoustical mechanism. M. M. Gruber. 1,705,615; Mar. 19.
- Acoustical study and correction of auditoriums. R. F. Norris. 1,726,499; Aug. 27.
- Acoustical study and correction of rooms. R. F. Norris. 1,726,501; Aug. 27.
- Acoustimeter. R. F. Norris. 1,712,515; May 14.
- Acridine derivative for therapeutical purposes. E. Rothlin and F. Müller. 1,738,449; Dec. 3.
- Acridones and preparing the same, Acryl-amino-dipthaloyl. M. Mieg and A. Job. 1,709,993; Apr. 23.
- Acridones and preparing the same, Mononitrated dipthaloyl. M. Mieg and A. Job. 1,709,945; Apr. 23.
- Activation of refractory metal filaments. J. W. Marden. 1,698,850; Jan. 15.
- Actuating mechanism for multiple-block printing heads. H. A. Webster. 1,737,817; Dec. 3.
- Actuator. W. S. Pritchard. 1,736,050; Nov. 19.
- Adapter. J. L. Bonanno. 1,697,946; Jan. 8.
- Adapter. H. C. Drake. 1,700,832; Feb. 5.
- Adapter and heating apparatus. W. B. Weaver. 1,700,576; Jan. 29.
- Adapter and lock for hypodermic syringes. G. N. Hein. 1,740,459; Dec. 24.
- Adapter for detonating fuses or instantaneous matches. R. Mallet. 1,719,065; July 2.
- Adapter for trailer-coupling devices. H. B. Vested. 1,706,425; Mar. 26.
- Adding and listing machine. W. W. Landsiedel. 1,720,082; July 9.
- Adding and listing machine. O. J. Sundstrand. 1,705,272; Mar. 12.
- Adding and recording machine. O. J. Sundstrand. 1,724,231; Aug. 13.
- Adding machine. J. E. W. Greve. 1,707,303; Apr. 2.
- Adding machine. J. Magnus. 1,699,540; Jan. 22.
- Adding machine. H. A. Puttemans and G. V. L. Perpète. 1,707,094; Mar. 26.
- Adding machine and the like. A. S. Trew. 1,723,668; Aug. 6.
- Adding machines, Automatic copyholder for. F. Ludwig. 1,720,282; July 9.
- Adding machines, Denominator attachment for. N. White. 1,730,106; Oct. 1.
- Adding machines, Listing mechanism for. G. J. Barrett. 1,734,069; Nov. 5.
- Adding-sector-restoring mechanism. W. W. Lasker. 1,713,342; May 14.
- Addressing and other machines, Ejector for. B. Z. McCain and H. L. Thompson. 1,729,116; Sept. 24.
- Addressing and wrapping machine. T. Menzies. 1,700,804; Feb. 5.
- Addressing device. E. B. Pyle. 1,707,095; Mar. 26.
- Addressing machine and similar printing machine. J. Krell. 1,700,803; Feb. 5.
- Addressing machines, Overthrow preventer in. A. L. Schultz. 1,713,097; May 14.
- Addressing machines, Tab for the printing plates of. J. Krell. 1,732,686; Oct. 22.
- Adhesive and plastic masses and preparing the same. M. Landecker. 1,725,805; Aug. 27.
- Adhesive and the product thereof, Making a water-resistant. C. N. Cone, G. Davidson, and I. F. Laucks. 1,726,510; Aug. 27.
- Adhesive, Applying. F. E. Rightmire. 1,734,148; Nov. 5.
- Adhesive applying and drying apparatus for sheets. E. P. Sheldon. 1,717,416; June 18.
- Adhesive-applying and pressing machine. M. O. Jennings and L. E. Alley. 1,704,089; Mar. 5.
- Adhesive, Device for applying. L. A. Holman. 1,711,732; May 7.
- Adhesive material and making. L. Bradshaw and H. V. Dunham. 1,703,134; Feb. 26.
- Adhesive rubber composition. M. C. Teague. 1,719,948; July 9.
- Adhesive strip. H. A. Evans. 1,707,515; Apr. 2.
- Adhesive-tape roller. E. Johnson. 1,731,782; Oct. 15.
- Adhesive-taping attachment. R. E. Leatherbury, jr. 1,721,252; July 16.
- Adhesives, Preparing substances composed in part of protein-containing cells for the manufacture of. G. Davidson. 1,724,695; Aug. 13.
- Adhesives, Using sodium-silicate. C. D. Wood. 1,709,892; Apr. 23.
- Adjustable brace. J. G. Edwards and H. T. Holding. 1,711,725; May 7.
- Adjustable chair. T. M. Denson and C. F. Willste. 1,713,034; May 14.
- Adjustable chair. A. W. Hawkins. 1,701,922; Feb. 12.
- Adjustable chair. E. L. Koenig. 1,715,134; May 28.
- Adjustable chair. A. Stoll. 1,726,372; Aug. 27.
- Adjustable chair. L. Stusak. 1,725,427; Aug. 20.
- Adjustable device for instruments. F. W. Roller. 1,708,900; Apr. 9.
- Adjustable die. N. Troyer. 1,704,874; Mar. 12.
- Adjustable frame. C. G. Mitchell. 1,702,358; Feb. 19.
- Adjustable hanger. L. H. Robinson. 1,732,950; Oct. 22.
- Adjustable screen, Portable. D. C. Lamb. 1,700,637; Jan. 29.
- Adjustable seat. P. S. Eckland. 1,736,701; Nov. 19.
- Adjustable seat. B. F. Forsyth. 1,711,526; May 7.
- Adjustable seat. C. T. Hansen. 1,731,461; Oct. 15.



- Adjustable seat. L. B. Provost and H. Brown. 1,699,249; Jan. 15.
- Adjustable seat. L. R. Provost and H. Brown. 1,732,169; Oct. 15.
- Adjustable stand. P. Weber. 1,715,260; May 28.
- Adjustable table. G. H. Angert. 1,737,956; Dec. 3.
- Adjustable wrench. E. H. Bierly. 1,711,718; May 7.
- Adjustable wrench. L. T. Crabbe. 1,736,696; Nov. 19.
- Adjustable wrench. M. Neumerkel. 1,723,574; Aug. 6.
- Adjustable wrench. B. H. Purdy. 1,720,650; July 9.
- Adjustable wrench. J. D. Spence. 1,697,291; Jan. 1.
- Adjuster for suspenders, Wire. A. V. Rainey. 1,708,589; Apr. 9.
- Adjusting creasing rolls, Mechanism for. G. E. Gooding. 1,714,715; May 28.
- Adjusting device. T. H. David. 1,722,662; July 30.
- Adjusting device. R. H. Langley. 1,728,834; Sept. 17.
- Adjusting device, Self-. W. H. Bot. 1,733,643; Oct. 29.
- Adjusting lifts of paper upon feed boards, Mechanism for. R. Miehle. 1,736,414; Nov. 19.
- Adjustment and compensating device. J. Wegner. 1,703,218; Feb. 26.
- Adjustment table. A. E. Gregory. 1,735,569; Nov. 12.
- Absorbent material, Revivifying. W. M. Stratford. 1,724,531; Aug. 13.
- Absorbents, Making filtration and decolorizing. H. T. Maitland. 1,711,504; May 7.
- Absorptive power of charcoal, Increasing the. H. B. Lemon. 1,699,243; Jan. 15.
- Advertisement carrier for counters. E. O. Henderson. 1,702,692; Feb. 19.
- Advertisements, Apparatus for animated. F. Marby. 1,734,264; Nov. 5.
- Advertiser, Auto headlight. P. S. Easley. 1,730,413; Oct. 8.
- Advertising and display apparatus. E. Brunhoff. 1,711,586; May 7.
- Advertising and display device. J. W. Ashworth. 1,704,646; Mar. 5.
- Advertising and signaling device, Aerial. L. Blériot. 1,727,095; Sept. 3.
- Advertising and station-indicating device, Combined. J. A. and C. M. Greer. 1,716,723; June 11.
- Advertising apparatus. F. D. Courtenay. 1,729,417; Sept. 24.
- Advertising apparatus. M. Curry. 1,699,689; Jan. 22.
- Advertising apparatus. O. W. Knight and J. B. Wesley. 1,717,226; June 11.
- Advertising apparatus. D. H. Lau. 1,730,280; Oct. 1.
- Advertising apparatus. W. H. McDonald. 1,713,140; May 14.
- Advertising apparatus. A. L. Sommers and F. E. White. 1,721,841; July 23.
- Advertising apparatus, Luminous. R. R. Cohen. 1,727,229; Sept. 3.
- Advertising card or the like. L. Obstfeld. Des. 77,854; Feb. 26.
- Advertising column. J. B. Holtz. Des. 79,965; Nov. 26.
- Advertising device. J. W. Anderson. 1,722,486; July 30.
- Advertising device. F. A. Apfelbaum. 1,715,887; June 4.
- Advertising device. G. F. Baker, jr. 1,707,503; Apr. 2.
- Advertising device. U. Bartoletti. 1,700,622; Jan. 29.
- Advertising device. F. E. Bessee. 1,728,468; Sept. 17.
- Advertising device. G. R. Boulding. 1,741,914; Dec. 31.
- Advertising device. H. A. Brown. 1,707,158; Mar. 26.
- Advertising device. C. J. Dennis and J. E. Pearce. 1,741,050; Dec. 24.
- Advertising device. I. Edelman. 1,700,490; Jan. 29.
- Advertising device. B. Epstein. 1,702,469; Feb. 19.
- Advertising device. G. D. Flak. 1,707,081; Mar. 26.
- Advertising device. E. C. Hake. 1,726,148; Aug. 27.
- Advertising device. W. W. Hamel. 1,719,606; July 2.
- Advertising device. H. F. Jackson. 1,698,487; Jan. 8.
- Advertising device. D. O. Jones. 1,721,597; July 23.
- Advertising device. W. Lauppi and L. Bertanyi. 1,720,556; July 9.
- Advertising device. F. Leal. 1,733,890; Oct. 29.
- Advertising device. L. V. Mallory. 1,704,984; Mar. 12.
- Advertising device. L. E. McConnell, jr. 1,714,884; May 28.
- Advertising device. A. Naimark. 1,702,701; Feb. 19.
- Advertising device. E. and A. P. Nissen. 1,719,518; July 2.
- Advertising device. J. E. and T. F. O'Brien. 1,735,934; Nov. 19.
- Advertising device. J. E. and T. F. O'Brien. 1,736,860; Nov. 26.
- Advertising device. E. M. Pitts. 1,739,801; Dec. 17.
- Advertising device. L. E. Pratt and H. L. Sloan. 1,741,434; Dec. 31.
- Advertising device. E. Ruegger. 1,699,857; Jan. 22.
- Advertising device. E. H. Sanders. 1,739,915; Dec. 17.
- Advertising device. F. W. Schmidt. 1,739,865; Dec. 17.
- Advertising device. R. M. Sherrill. 1,722,770; July 30.
- Advertising device. W. D. Smith. 1,717,742; June 18.
- Advertising device. W. R. Wilson. 1,731,693; Oct. 15.
- Advertising device. W. Winter. 1,733,176; Oct. 29.
- Advertising device, Air-operated. M. G. Masters. 1,704,572; Mar. 5.
- Advertising device, Electric. G. McCoshen. 1,736,613; Nov. 19.
- Advertising device, Gas-engine-oil. J. C. Holworthy. 1,699,238; Jan. 15.
- Advertising device, Wall-paper-. B. A. Cook. 1,721,615; July 23.
- Advertising disk. E. F. Braucher. 1,699,831; Jan. 22.
- Advertising display device. M. M. Einson. 1,718,339; June 25.
- Advertising display stand. E. Bowers. Des. 80,160; Dec. 24.
- Advertising display, Window. F. P. Lesser. 1,700,943; Feb. 5.
- Advertising exhibitor. A. J. Kauffman. 1,707,861; Apr. 2.
- Advertising frame for vehicles. J. W. Connell. 1,721,804; July 23.
- Advertising machine. D. Aramburu. 1,723,910; Aug. 6.
- Advertising machine. H. Armstrong. 1,707,838; Apr. 2.
- Advertising machine, Automatic. J. W. Duval. 1,700,435; Jan. 29.
- Advertising machine, Automatic. C. F. Gilford. 1,716,582; June 11.
- Advertising machine, Card-display-. M. H. Page. 1,711,029; Apr. 30.
- Advertising novelty. M. Gray. 1,722,465; July 30.
- Advertising novelty. R. L. Taylor. 1,699,383; Jan. 15.
- Advertising novelty. P. W. Townsend. 1,715,048; May 28.
- Advertising on cigarettes. O. de Courten and O. Schaub. 1,712,380; May 7.
- Advertising or display device. C. L. Cruver. 1,727,026; Sept. 3.
- Advertising or display device. W. W. Hamel. 1,734,575; Nov. 5.
- Advertising panel. H. Sarafian. Des. 79,670; Oct. 22.
- Advertising pedestal for clock and weighing machine. J. B. Holtz. Des. 79,966; Nov. 26.
- Advertising pedestal for clock and weighing machine. J. B. Holtz. Des. 80,032; Dec. 3.
- Advertising rack. L. G. Moore and F. D. Pelot. 1,737,939; Dec. 3.
- Advertising sign. V. Bridgman. 1,726,944; Sept. 3.
- Advertising stand. F. E. Hatcher. 1,734,804; Nov. 5.
- Advertising system. F. Fraley. 1,723,027; Aug. 6.
- Ading and boring machine. H. Alinder and G. B. Shipley. 1,704,273; Mar. 5.
- Aerating apparatus. E. Millmather. 1,699,198; Jan. 15.
- Aerating apparatus. D. G. Steely. 1,702,526; Feb. 19.
- Aerating ice cans, System for. J. A. Martocello. 1,739,979; Dec. 17.
- Aerating system for ice cans. J. A. Martocello. 1,706,580; Mar. 26.
- Aeration apparatus. L. Logan. 1,717,713; June 18.
- Aeration apparatus and method. H. A. Gollmar. 1,726,892; Sept. 3.
- Aeration apparatus and method. F. W. Sperr, jr. 1,703,967; Mar. 5.
- Aeration, Process for drying, carbonizing, and oxidizing plants and apparatus therefor. R. Glinka. 1,715,830; June 4.
- Aerator. H. G. L. de Whalley. 1,714,850; May 28.
- Aerator and separator, Flour. B. Stanton. 1,718,442; June 25.
- Aerator, Cream. W. H. Lucan. 1,697,729; Jan. 1.
- Aerator, Cream. A. J. Squire and J. J. Lindvart. 1,700,186; Jan. 29.
- Aerator for liquid-dispensing devices. H. G. Cordley and G. R. Long. 1,719,260; July 2.
- Aerator for liquids, Agitator. T. A. Rowand. 1,726,125; Aug. 27.
- Aerial, Collapsible loop. M. Mathiesen. 1,705,262; Mar. 12.
- Aerial, Collapsible loop. M. Mathiesen. 1,721,128; July 16.
- Aerial conveyer system. H. L. Turney. 1,697,938-9; Jan. 8.
- Aerial-filling device. A. Procoff-Seversky. 1,723,449; Sept. 17.
- Aerial, Indoor. O. Von Bronk. 1,731,992; Oct. 15.
- Aerial, Portable. M. Mathiesen. 1,716,969; June 11.
- Aerial projecting device. H. T. Nelson. 1,711,122; Apr. 30.
- Aerial system for wireless signaling. C. S. Franklin, W. J. Picken, and J. G. Robb. 1,717,674; June 18.
- Aerial tramway. J. E. Jennings. 1,728,611; Sept. 17.
- Aerial transportation system. D. A. McPhee. 1,714,183; May 21.
- Aerobic fermentation. G. S. Bratton. 1,732,921; Oct. 22.
- Aerodynamic balance. A. F. Zahm. 1,710,135; Apr. 23.
- Aerodynamic control of airplane wings. L. H. Crook. 1,724,456; Aug. 13.
- Aeronautical apparatus. A. R. Schad. 1,728,806; Sept. 17.
- Aeronautical device. C. E. Carlsen. 1,710,918; Apr. 30.
- Aeronautical vessel. J. Hojnowski. 1,736,263; Nov. 19.
- Aeroplane. G. Bess. 1,704,719; Mar. 12.
- Aeroplane. M. H. Block. 1,726,468; Aug. 27.
- Aeroplane. L. W. Bonney. 1,710,670; Apr. 23.
- Aeroplane. E. M. Burchell. 1,727,047; Sept. 3.
- Aeroplane. J. Ciccianni. 1,713,421; May 14.
- Aeroplane. J. G. Connor. 1,734,114; Nov. 5.
- Aeroplane. L. F. Covatch. 1,738,423; Dec. 3.
- Aeroplane. G. Crompton, jr. 1,716,116; June 4.
- Aeroplane. W. R. Custer. 1,708,720; Apr. 9.
- Aeroplane. E. Davis. 1,705,904; Mar. 19.
- Aeroplane. J. Dill. 1,701,298; Feb. 5.
- Aeroplane. S. Dolcimascio. 1,741,617; Dec. 31.
- Aeroplane. D. L. Faurote. 1,730,414; Oct. 8.
- Aeroplane. W. H. Forsyth. 1,715,284; May 28.
- Aeroplane. C. Gida and L. Jacopi. 1,702,634; Feb. 19.
- Aeroplane. J. F. Goodrich. 1,723,479; Aug. 6.



- Aeroplane. J. J. Hill. 1,725,640; Aug. 20.  
 Aeroplane. J. Hojnowski. 1,720,330; July 9.  
 Aeroplane. R. D. Holmes. 1,721,342; July 16.  
 Aeroplane. J. Hübschman. 1,740,016; Dec. 17.  
 Aeroplane. M. J. Jeynisek. 1,716,351; June 4.  
 Aeroplane. W. Jordan and C. S. Nichols. 1,709,402;  
 Aeroplane. K. Karliczek. 1,728,683; Sept. 17.  
 Aeroplane. D. A. Kaufman. 1,703,396; Feb. 26.  
 Aeroplane. A. M. Kennedy. 1,710,225; Apr. 23.  
 Aeroplane. R. B. Maliszewski. 1,721,916; July 23.  
 Aeroplane. H. J. Morse. 1,710,028; Apr. 23.  
 Aeroplane. G. E. Mounce. 1,729,354; Sept. 24.  
 Aeroplane. O. M. Peterson. 1,732,141; Oct. 15.  
 Aeroplane. G. Ploger. 1,712,903; May 14.  
 Aeroplane. S. Rasmussen. 1,738,611; Dec. 10.  
 Aeroplane. G. W. Ray. 1,707,177; Mar. 26.  
 Aeroplane. F. L. Riffert. 1,705,535; Mar. 19.  
 Aeroplane. W. S. Rodene. 1,728,575; Sept. 17.  
 Aeroplane. M. D. Rosenblum. 1,733,030; Oct. 22.  
 Aeroplane. A. H. Ross. 1,731,910; Oct. 15.  
 Aeroplane. A. Schertz. 1,725,481; Aug. 20.  
 Aeroplane. A. Sedmeier. 1,732,570; Oct. 22.  
 Aeroplane. S. Sisson. 1,737,951; Dec. 3.  
 Aeroplane. E. V. Spencer. 1,736,226; Nov. 19.  
 Aeroplane. J. H. Thomas. 1,725,724; Aug. 20.  
 Aeroplane. C. Trevor. 1,719,031; July 2.  
 Aeroplane. C. J. Wagner. 1,718,617; June 25.  
 Aeroplane. C. L. Weltner. 1,737,210; Nov. 26.  
 Aeroplane. S. Wiechacz. 1,716,995; June 11.  
 Apr. 16.  
 Aeroplane. L. L. Yock. 1,732,873; Oct. 22.  
 Aeroplane and boat, Combination. A. E. Durham.  
 1,721,437; July 16.  
 Aeroplane and landing chassis therefor. M. Watter.  
 1,719,798; July 2.  
 Aeroplane construction. M. E. Dare. 1,720,667; July 16.  
 Aeroplane construction. P. G. Kluse. 1,712,705; May 14.  
 Aeroplane construction. E. L. and E. D. Ruhl. 1,713,450;  
 May 14.  
 Aeroplane control. L. W. Bonney. 1,710,671-2; Apr. 23.  
 Aeroplane control. D. G. Lilley. 1,720,960; July 16.  
 Aeroplane dolly. L. Azarraga. 1,703,652; Feb. 26.  
 Aeroplane-handling structure. W. J. Perkins. 1,738,261;  
 Dec. 3.  
 Aeroplane, Helicopter. F. B. Many. 1,704,753; Mar. 12.  
 Aeroplane, Manually-driven. T. Leka. 1,735,541; Nov. 19.  
 Aeroplane, Miniature. M. F. Trevino. 1,735,662; Nov. 12.  
 Aeroplane, Multivane. J. Bilan. 1,722,487; July 30.  
 Aeroplane of duck-type construction. H. Focke. 1,738,568;  
 Dec. 10.  
 Aeroplane or similar article. E. Ebbinghaus. Des.  
 80,022; Dec. 3.  
 Aeroplane safety device. L. Blumenthal. 1,727,157;  
 Sept. 3.  
 Aeroplane, Tail structure for. J. M. Karrasch. 1,721,598;  
 July 23.  
 Aeroplane wing. H. Freise. 1,734,801; Nov. 5.  
 Aeroplane-wing construction. A. Oaks. 1,729,680; Oct. 1.  
 Aeroplane wing or aerofoil structure. L. W. Bonney.  
 1,710,673; Apr. 23.  
 Aeroplane without boat-shaped pontoons, Amphibian. E.  
 R. Carroll. 1,704,076; Mar. 5.  
 Aeroplanes, Automatic ground release for. C. D. Carey.  
 1,702,682; Feb. 19.  
 Aeroplanes, Controlling. F. H. Page. 1,726,118; Aug. 27.  
 Aeroplanes from taking nose dives, Preventing. T. C.  
 Luiton. 1,732,758; Oct. 22.  
 Aeroplanes, Landing mechanism for. J. E. Broyles.  
 1,710,290; Apr. 23.  
 Aeroplanes, Longeron for. G. Caproni. 1,731,157; Oct. 8.  
 Aeroplanes, Safety appliance for. C. H. Gunn. 1,738,001;  
 Dec. 3.  
 Aeroplanes, Take-off and landing apparatus for. N. J.  
 Verret. 1,737,483; Nov. 26.  
 Aeroplanes, Undercarriage for. W. E. Gray. 1,716,439;  
 June 11.  
 Aeroplanes, Variable lift wing for. H. G. Keller.  
 1,742,082; Dec. 31.  
 Aeroplanes, Wing-structure-varying device for. A. Tam-  
 meo. 1,738,463; Dec. 3.  
 Aero propelling and steering means. M. Gallet.  
 1,734,251; Nov. 5.  
 Aero vehicle. W. Johnston. 1,714,561; May 28.  
 Affinity of animal fibers for dyestuffs, Increasing the. E.  
 Du Bois. 1,698,226; Jan. 8.  
 Agar product and producing the same. J. Becker.  
 1,712,785; May 14.  
 Agents for emulsifying, purifying, wetting, or the like by  
 sulphonation, Manufacture of. K. Marx, K. Brodersen,  
 and K. Bittner. 1,708,103; Apr. 9.  
 Aggregates and water for concrete, Proportioning. C. S.  
 Johnson. 1,733,410; Oct. 29.  
 Agitating apparatus. S. R. Illingworth. 1,716,726;  
 June 11.  
 Agitator. J. E. Bond. 1,716,294-9; June 4.  
 Agitator. J. E. Bond. 1,737,699-705; Dec. 3.  
 Agitator. J. W. Hunt. 1,711,114; Apr. 30.  
 Agitator. R. E. Minogue. 1,704,013; Mar. 5.  
 Agitator. J. Raick. 1,729,052; Sept. 24.  
 Agitator. J. Locke. 1,717,065; June 11.  
 Agitator. C. F. Rodin and G. G. Jamieson. 1,733,516;  
 Oct. 29.  
 Agitator. H. J. Smith. 1,733,244; Oct. 29.  
 Agitator. L. J. Wahl. 1,704,025-6; Mar. 5.  
 Agitator. L. J. Wahl. 1,705,162; Mar. 12.  
 Agitator and scraper, Rotatable. G. A. Harris. 1,698,402;  
 Jan. 8.  
 Agitator for molten babbitt and the like. S. Smith.  
 1,703,966; Mar. 5.  
 Agitator for washing machines, Vacuum. H. F. Snyder.  
 1,714,894; May 28.  
 Agitators, Detachable drive for. S. Bramsen and W.  
 Hersleb. 1,728,658; Sept. 17.  
 Agricultural implement. C. W. Board and W. E. Crosby.  
 1,699,178; Jan. 15.  
 Agricultural implement. J. A. Carlton. 1,726,886; Sept. 3.  
 Agricultural implement. B. Cox. 1,698,188; Jan. 8.  
 Agricultural implement. F. B. Crane. 1,730,759; Oct. 8.  
 Agricultural implement. J. Estell. 1,702,295; Feb. 19.  
 Agricultural implement. J. Hampson. 1,719,400; July 2.  
 Agricultural implement. P. Isaac. 1,738,185; Dec. 3.  
 Agricultural implement. C. E. Penland. 1,724,143; Aug.  
 13.  
 Agricultural machine. C. F. Burrows. 1,731,332; Oct. 15.  
 Agricultural machine. J. M. Ledbetter. 1,714,915;  
 May 28.  
 Agricultural machine. L. C. Hester. 1,731,925; Oct. 15.  
 Agricultural machine. M. Orgé. 1,709,094; Apr. 16.  
 Agricultural machine. J. M. Taylor. 1,739,020; Dec. 10.  
 Agricultural machine, Air-operated. J. A. Dirschauer.  
 1,718,638; June 25.  
 Agricultural spraying, Apparatus and method for. J. E.  
 Shepherd and E. K. O'Brien. 1,723,955; Aug. 6.  
 Agriculture, Method of and apparatus for the practice of.  
 H. L. Roe. 1,737,866; Dec. 3.  
 Air-actuated switch. W. Keiser. 1,720,180; July 9.  
 Air and cotton separator. W. L. Hancock. 1,721,770;  
 July 23.  
 Air and fuel mixing device. H. M. Cogan. 1,722,367;  
 July 30.  
 Air and gas service station. R. E. Manley. 1,725,289;  
 Aug. 20.  
 Air, Apparatus for conditioning. F. B. Comins. 1,726,214;  
 Aug. 27.  
 Air, Apparatus for conditioning. L. Helmer. 1,735,611;  
 Nov. 12.  
 Air bag. H. A. Denmire. 1,698,676; Jan. 8.  
 Air-bag-inserting machine. W. C. Stevens. 1,707,646;  
 Apr. 2.  
 Airboat Tunnel. K. M. E. Zwinkel. 1,704,916; Mar. 5.  
 Air brake. M. J. Fowler, M. Harmon, and L. H. Blanken-  
 ship. 1,711,379; Apr. 30.  
 Air brake. J. Mills, jr. 1,711,899; May 7.  
 Air-brake apparatus. H. Kobayashi. 1,715,765; June 4.  
 Air brake, Compressed-. A. and E. A. Anderberg.  
 1,712,016; May 7.  
 Air-brake system for vehicles. E. O. Schjolin. 1,707,742;  
 Apr. 2.  
 Air-break electric switch. G. W. O'Keefe. 1,731,200;  
 Oct. 8.  
 Air-break switch, Disconnecting. T. F. Johnson, jr.  
 1,742,079; Dec. 31.  
 Air-break switch, Disconnecting. T. F. Johnson, jr.  
 1,742,143-4; Dec. 31.  
 Air-chamber seat, Collapsible. N. S. Harter. 1,736,155;  
 Nov. 19.  
 Air-circulating device. A. G. Sutcliffe and J. C. Novak, jr.  
 1,696,982; Jan. 1.  
 Air circulator and heater. H. V. Deemar. 1,724,752;  
 Aug. 13.  
 Air clamp. G. Powell. 1,736,171; Nov. 19.  
 Air cleaner. A. C. Bennett. 1,734,030; Nov. 5.  
 Air cleaner. M. L. Blair. 1,712,947; May 14.  
 Air cleaner. F. O. Clements. 1,717,369; June 18.  
 Air cleaner. H. R. Davies. 1,708,122; Apr. 9.  
 Air cleaner. G. Hooton. 1,720,179; July 9.  
 Air cleaner. H. G. Kamrath. 1,721,517; July 23.  
 Air cleaner. H. G. Kamrath. 1,723,427-8; Aug. 6.  
 Air cleaner. H. G. Kamrath. 1,733,491; Oct. 29.  
 Air cleaner. A. L. McLean. 1,713,880; May 21.  
 Air cleaner. C. A. Winslow. 1,702,804; Feb. 19.  
 Air cleaner and collector. C. H. Lemery. 1,715,298;  
 May 28.  
 Air cleaner and oil separator, Combined. M. Waters.  
 1,717,639; June 18.  
 Air cleaner for internal-combustion engines. A. T. Taecker.  
 1,722,689; July 30.  
 Air cleaner for rock drills. M. J. Schuller. 1,724,733;  
 Aug. 13.  
 Air cleaner, oil filler, and crank-case breather, Combined.  
 C. R. Short. 1,712,939; May 14.  
 Air-compressing apparatus. J. J. Dilks, jr. 1,730,319;  
 Oct. 1.  
 Air compressor. M. C. Gonzalez. 1,734,292; Nov. 5.  
 Air compressor. L. H. Swanson. 1,736,469; Nov. 19.  
 Air-conditioning apparatus. T. B. Murray. 1,741,726;  
 Dec. 31.  
 Air-conditioning appliance. C. A. Moore. 1,705,531;  
 Mar. 19.  
 Air-conditioning appliance. C. A. Moore. 1,731,432;  
 Oct. 15.  
 Air-conditioning system. C. A. Bulkeley and L. W. Child.  
 1,737,040; Nov. 26.  
 Air connection for twin tires, Cross. W. L. Dundin and  
 E. S. Stahl. 1,736,191; Nov. 19.  
 Air-controlling mechanism, Compressed-. F. Faudi.  
 1,732,717; Oct. 22.  
 Air-cooled block, Circulating-. J. E. Anderson. 1,741,180;  
 Dec. 31.  
 Air-cooled engine. C. F. Kettering. 1,697,818; Jan. 1.



- Air cooler. S. E. Lauer. 1,736,408; Nov. 19.  
 Air-cooling device. R. Hardy. 1,715,753; June 4.  
 Air-control device. P. P. Feit. 1,715,125; May 28.  
 Air control for internal-combustion engines. D. Oliphant. 1,710,488; Apr. 23.  
 Air control, Thermostatic. A. A. Riccio. 1,720,572; July 9.  
 Aircraft. J. Brookbank. 1,723,914; Aug. 6.  
 Aircraft. G. Cannistra. 1,714,416; May 21.  
 Aircraft. A. H. G. Fokker. 1,726,981; Sept. 3.  
 Aircraft. R. Garcia. 1,701,407; Feb. 5.  
 Aircraft. E. N. Gott. 1,731,531; Oct. 15.  
 Aircraft. F. J. Jaeger. 1,709,220; Apr. 16.  
 Aircraft. R. W. James. 1,727,033; Sept. 3.  
 Aircraft. W. Kreikenbohm. 1,697,770; Jan. 1.  
 Aircraft. A. A. Kucher. 1,717,390; June 18.  
 Aircraft. A. A. Kucher. 1,727,014; Sept. 3.  
 Aircraft. H. P. Massey. 1,698,819; Jan. 15.  
 Aircraft. H. P. Massey. 1,714,608; May 28.  
 Aircraft. E. G. Reid. 1,724,110; Aug. 13.  
 Aircraft. W. Stelzer. 1,704,112; Mar. 5.  
 Aircraft. A. L. Thurston and H. T. Booth. 1,721,935; July 23.  
 Aircraft. M. Watter. 1,719,799; July 2.  
 Aircraft. A. C. Wilcox. 1,722,651; July 30.  
 Aircraft. E. B. Wilford. 1,736,299; Nov. 19.  
 Aircraft. C. A. Wrang. 1,733,928; Oct. 29.  
 Aircraft, Aerofoil or wing construction for. A. L. Thurston. 1,697,151; Jan. 1.  
 Aircraft at high altitudes by direct fluid reaction, Device for propelling. E. Hallowell. 1,725,914; Aug. 27.  
 Aircraft. Braking device for. M. H. Aten. 1,731,735; Oct. 15.  
 Aircraft communication apparatus. L. O. Glatzner. 1,701,204; Feb. 5.  
 Aircraft control. W. S. Diehl. 1,732,642; Oct. 22.  
 Aircraft control. H. H. Lybrand. 1,723,653; Aug. 6.  
 Aircraft covering. L. M. Jacobsohn and S. Truscott. 1,706,294; Mar. 19.  
 Aircraft device. H. F. Pitcairn. 1,718,577; June 25.  
 Aircraft-elevating means. E. Van Note. 1,726,783; Sept. 3.  
 Aircraft. Flame-releasing mechanism for. C. N. Monteith and L. S. Marsh. 1,721,883; July 23.  
 Aircraft flight control. J. B. Herget and A. F. Walloch. 1,721,818; July 23.  
 Aircraft flotation device. F. H. Johnson. 1,704,612; Mar. 5.  
 Aircraft. Folding undercarriage for. T. Reilly. 1,716,736; June 11.  
 Aircraft heater. A. S. Carousso. 1,703,612; Feb. 26.  
 Aircraft. Hydraulic actuating device for. R. M. Giffen. 1,716,121; June 4.  
 Aircraft. Improving visibility in. T. Carroll and E. G. Reid. 1,715,277; May 28.  
 Aircraft landing. H. C. Belleville. 1,731,091; Oct. 8.  
 Aircraft. Landing method for. F. Brunner. 1,709,058; Apr. 16.  
 Aircraft. Lift mechanism for. G. P. Wagner. 1,737,035; Nov. 26.  
 Aircraft light. S. Wiley, jr. 1,709,644; Apr. 16.  
 Aircraft. Lighter-than-air. B. N. Wallis. 1,713,574; May 21.  
 Aircraft. Load-factor indicator for. W. Klemperer. 1,727,310; Sept. 3.  
 Aircraft. Merchandise carrier for. G. E. Barnhart. 1,713,069; May 14.  
 Aircraft. Navigating. H. Junkkers. 1,709,621; Apr. 16.  
 Aircraft novelty. S. Gordon. 1,718,349; June 25.  
 Aircraft propelling and controlling means. J. T. Rice. 1,727,561; Sept. 10.  
 Aircraft provided with rotating wing surfaces. L. Chauviere. 1,704,034; Mar. 5.  
 Aircraft. Runner for. H. Junkers. 1,714,375; May 21.  
 Aircraft. Stabilizing device for. P. D. Stead. 1,720,576; July 9.  
 Aircraft. Water drawing apparatus for. V. Strafino. 1,729,558; Sept. 24.  
 Aircraft wing. A. E. L. Chorlton, R. A. D. Haig, and H. J. Stieger. 1,712,812; May 14.  
 Air-current deflector and dust collector. R. E. Beaubien. 1,700,304; Jan. 29.  
 Air cushion. O. B. Carlson. 1,706,560; Mar. 26.  
 Air cushions, Process and device for the manufacture of seat. P. Herz. 1,729,596; Sept. 24.  
 Air deflector. J. T. Bond. 1,738,418; Dec. 3.  
 Air deflector. P. E. Diederich. 1,724,698; Aug. 13.  
 Air diffuser, Adjustable. R. M. Hinrich. 1,725,353; Aug. 20.  
 Air diffuser for auditoriums and the like. L. L. Lewis. 1,737,661; Dec. 3.  
 Air-distributing device for electric fans. W. O. Freeman. 1,728,117; Sept. 10.  
 Air distribution to furnaces. J. C. Hayes, jr. 1,726,298; Aug. 27.  
 Air distributor for furnaces, Warm-. J. C. Baker. 1,719,682; July 2.  
 Air duct. W. Linterna. 1,738,377; Dec. 3.  
 Air engine. F. S. Barks. 1,704,238; Mar. 5.  
 Air extractor for vehicles or buildings. J. and D. P. Muirhead. 1,728,001; Sept. 10.  
 Air filter for combustion motors. V. H. Schneider. 1,723,813; Aug. 6.  
 Air-filtering device. J. P. Remington. 1,735,694; Nov. 12.  
 Airfoil. P. E. H. Gripon. 1,719,293; July 2.  
 Air from containers, Apparatus for exhausting. H. Bergeron. 1,724,787; Aug. 13.  
 Air gas lift. M. E. Wagner. 1,719,249; July 2.  
 Air gauge. A. E. Bronson. 1,717,493; June 18.  
 Air gauge. V. J. Vashon. 1,732,249; Oct. 22.  
 Air gauge and signal, Combined. C. A. Frank. 1,697,421; Jan. 1.  
 Air guard for suction fans. B. C. Woodford. 1,719,255; July 2.  
 Air gun and making it. R. McFarlan. 1,722,103; July 23.  
 Air gun for tube cleaning. H. T. Wells. 1,715,442; June 4.  
 Air heater. C. W. E. Clarke. 1,734,962; Nov. 12.  
 Air heater. H. Lange. Des. 78,297; Apr. 16.  
 Air heater. H. Lange. 1,728,833; Sept. 17.  
 Air heater. I. L. Langvand. 1,737,970; Dec. 3.  
 Air heater. C. E. Lucke. 1,734,588; Nov. 5.  
 Air heater. A. E. Reuss. 1,715,007; May 28.  
 Air heater. J. H. Rohrer. 1,722,826; July 30.  
 Air heater, Electric. A. J. Kercher and W. W. Hicks. 1,699,739; Jan. 22.  
 Air heater, Electric. A. J. Kercher and W. W. Hicks. 1,705,769; Mar. 19.  
 Air heater, Electrical. W. W. Hicks. 1,724,585; Aug. 13.  
 Air heater, Regenerative. J. E. Bell. 1,710,529; Apr. 23.  
 Air heater, Regenerative. W. E. Dowd, jr. 1,697,591; Jan. 1.  
 Air-inlet attachment for combustion chambers. F. Sette. 1,715,516; June 4.  
 Air intake, Auxiliary. J. A. Matteson. 1,721,633; July 23.  
 Air lift. G. C. Engstrand. 1,698,127; Jan. 8.  
 Air lift. B. F. Waldron. 1,700,916; Feb. 5.  
 Air-lift system. J. Oliphant. 1,730,682; Oct. 8.  
 Air-mixing burner. D. J. Irish. 1,740,985; Dec. 24.  
 Air moistener. W. S. Elters. 1,709,392; Apr. 16.  
 Air moistener. E. H. Johnson. 1,739,073; Dec. 10.  
 Air moistener. C. E. Sallada. 1,720,241; July 9.  
 Air motor. L. Wernicke. 1,735,822; Nov. 12.  
 Air or gas compressing system. S. B. Redfield. 1,716,533; June 11.  
 Air or gas lift for fluids. L. B. Clifford. 1,740,807; Dec. 24.  
 Air or gaseous fluid into the charge in rotary furnaces, Apparatus for introducing. G. Bojner and A. H. Pehrson. 1,709,456; Apr. 16.  
 Air pad, Pressure-applying. O. Michalk. 1,718,300; June 25.  
 Airplane. C. C. Abel. 1,708,249; Apr. 9.  
 Airplane. G. Albert. 1,705,387; Mar. 12.  
 Airplane. K. R. E. Badermann. 1,725,950; Aug. 27.  
 Airplane. F. Brown. 1,718,892; June 25.  
 Airplane. V. J. Burnelli. 1,723,763; Aug. 6.  
 Airplane. J. E. Caldwell. 1,730,758; Oct. 8.  
 Airplane. W. D. Clark. 1,723,678; Aug. 6.  
 Airplane. J. H. Davis. 1,721,772-3; July 23.  
 Airplane. R. F. Hall. 1,710,476; Apr. 23.  
 Airplane. R. F. Hall. 1,723,778; Aug. 6.  
 Airplane. R. F. Hall. 1,726,558; Sept. 3.  
 Airplane. R. F. Hall and C. A. Phillips. 1,701,451; Feb. 5.  
 Airplane. R. B. Jackson. 1,731,666; Oct. 15.  
 Airplane. O. B. and V. O. Jacobs. 1,730,851; Oct. 8.  
 Airplane. J. C. Johnson. 1,713,874; May 21.  
 Airplane. C. J. Leisy. 1,698,849; Jan. 15.  
 Airplane. G. M. Lewis. 1,737,596; Dec. 3.  
 Airplane. F. E. Loudy. 1,720,421; July 9.  
 Airplane. H. P. Massey. 1,714,609; May 28.  
 Airplane. C. J. McCarthy and M. Watter. 1,719,797; July 2.  
 Airplane. G. E. McCrea. 1,739,798; Dec. 17.  
 Airplane. R. V. Morse. 1,702,306; Feb. 19.  
 Airplane. G. A. Morris. 1,724,883; Aug. 13.  
 Airplane. C. K. Morton. 1,698,853; Jan. 15.  
 Airplane. O. Palmer. 1,699,986; Jan. 22.  
 Airplane. C. O. Prest. 1,718,834; June 25.  
 Airplane. A. Rohrbach. 1,738,670; Dec. 10.  
 Airplane. E. Schmidt. 1,736,632; Nov. 19.  
 Airplane. A. Smith. 1,730,249; Oct. 1.  
 Airplane. L. Stein. 1,724,859; Aug. 13.  
 Airplane. E. H. Tubbe. 1,731,757; Oct. 15.  
 Airplane. M. C. Tunison. Des. 79,768; Oct. 29.  
 Airplane. M. A. Szymanski. 1,713,933; May 21.  
 Airplane. E. B. Wilford. 1,736,300; Nov. 19.  
 Airplane. A. Winterkorn. 1,739,703; Dec. 17.  
 Airplane. P. P. Worrell. 1,735,308; Nov. 12.  
 Airplane, Amphibian. J. H. Kindelberger. 1,729,878; Oct. 1.  
 Airplane body or similar article, Cabin. L. Stearman. Des. 78,845; June 25.  
 Airplane construction. A. C. Gienger. 1,727,542; Sept. 10.  
 Airplane drive. N. Moser. 1,706,457; Mar. 26.  
 Airplane engine, Two-cycle. J. W. Davis. 1,727,051; Sept. 3.  
 Airplane for night advertising. G. Hand. 1,698,721; Jan. 15.  
 Airplane fuselage. J. L. Cato. 1,718,410; June 25.  
 Airplane generator mount. F. E. Loudy. 1,733,891; Oct. 29.  
 Airplane hangar. T. Ahlborn. 1,727,022; Sept. 3.  
 Airplane helicopter. W. I. O'Neill. 1,735,872; Nov. 19.  
 Airplane landing. W. W. Kellett. 1,723,974; Aug. 6.  
 Airplane landing apparatus. P. K. Westcott. 1,705,432; Mar. 12.  
 Airplane-launching appliance. L. R. McDonald. 1,732,524; Oct. 22.  
 Airplane powder-dusting apparatus. E. Johnson. 1,703,308; Feb. 26.



- Airplane-propelling means. S. M. Fairchild. 1,723,925; Aug. 6.
- Airplane propelling mechanism. F. Heidebreder. 1,741,517; Dec. 31.
- Airplane, Pusher. C. G. Thompson. 1,723,666; Aug. 6.
- Airplane stabilizer. F. G. Diago. 1,727,275; Sept. 3.
- Airplane take-off. W. E. Gale. 1,704,968; Mar. 12.
- Airplane transportation, System of. J. Messer. 1,733,270; Oct. 29.
- Airplane wing. F. Kautz. 1,716,314; June 4.
- Airplane wing. P. G. Zimmermann. 1,697,674; Jan. 1.
- Airplane-wing construction. V. C. Bernhardt. 1,721,329; July 16.
- Airplanes. Auxiliary sustaining and propelling means for. J. F. Berry. 1,742,123; Dec. 31.
- Air preheater. H. H. Bates. 1,740,145; Dec. 17.
- Air preheaters, Heat-interchanger unit for regenerative. G. C. Cook. 1,722,788; July 30.
- Air-preheating device. O. de Lorenzi. 1,739,507; Dec. 17.
- Air-pressure-controlling means. M. J. McAneny. 1,713,849; May 21.
- Air-pressure gauge. L. A. Hallstead. 1,708,837; Apr. 9.
- Air purifier and moistener. C. G. Hawley. 1,720,178; July 9.
- Air purifying and deodorizing device. G. B. Allen. 1,737,532; Nov. 26.
- Air-purifying apparatus. E. Magerle. 1,728,425; Sept. 17.
- Air regulation for Diesel engines, Blast-. B. V. E. Nordberg. 1,721,032; July 16.
- Air regulator and windshield adjuster. S. Munson. 1,708,845; Apr. 9.
- Air separator. T. J. Sturtevant. 1,735,479; Nov. 12.
- Air separator. J. W. Dreischach. 1,698,361; Jan. 8.
- Air separator. T. J. Sturtevant. 1,703,833; Sept. 26.
- Air-service appliance, Overhead. C. J. Stibdivant. 1,712,176; May 7.
- Air-service device, Cut-off for. J. C. Woodford. 1,729,306; Sept. 24.
- Airship. A. Bradford. 1,729,925; Oct. 1.
- Airship. J. I. Bronn. 1,731,840; Oct. 15.
- Airship. E. Brunner. 1,706,397; Mar. 26.
- Airship. A. I. Dunn. 1,717,552; June 18.
- Airship. C. H. Freese. 1,718,343; June 25.
- Airship. C. H. Freese. 1,736,439; Nov. 19.
- Airship. G. Krisch. 1,738,187; Dec. 3.
- Airship. J. N. Lewis. 1,721,631; July 23.
- Airship. E. E. Moe. 1,726,754; Sept. 3.
- Airship. A. Mueller. 1,716,597; June 11.
- Airship. O. K. Quast. 1,701,116; Feb. 5.
- Airship. S. Richardson. 1,727,786; Sept. 10.
- Airship. A. Schaefer. 1,706,080; Mar. 19.
- Airship. B. Schnitzer. 1,701,466; Feb. 5.
- Airship. M. A. Szymanski. 1,729,020; Sept. 24.
- Airship. P. C. Traver. 1,705,346; Mar. 12.
- Airship. G. W. Turner. 1,741,446; Dec. 31.
- Airship and aeroplane, Combination. P. Arndt. 1,705,170; Mar. 12.
- Airships, Carrying body for rigid. E. Ruess. 1,740,839; Dec. 24.
- Airship construction. M. R. Myers. 1,731,348; Oct. 15.
- Airship, Dirigible. W. H. Banks. 1,730,910; Oct. 8.
- Airship, Dirigible. L. L. Hansen. 1,741,699; Dec. 31.
- Airship, Echelon-plane. A. J. Harpstrite. 1,700,290; Jan. 29.
- Airship, Fireproof dirigible. T. B. Slate. 1,720,382; July 9.
- Airship, Heavier-than-air. G. C. Brown. 1,718,109; June 18.
- Airship mooring. H. V. Thaden. 1,700,001; Jan. 22.
- Airship mooring and transporting device. B. Schnitzer. 1,706,414; Mar. 26.
- Airship provided with parachute, Mixed. G. Tallet. 1,712,529; May 14.
- Airship, Rigid. P. Helma. 1,700,095; Jan. 22.
- Airship, Rigid. E. Helligardt and B. Schnitzer. 1,721,499; July 16.
- Airship, Rigid. B. N. Wallis and C. D. Burney. 1,724,440; Aug. 13.
- Airship truck. K. Stahl. 1,720,928; July 16.
- Airship with separate gas cells, Rigid. H. Eckener. 1,724,009; Aug. 13.
- Airships, Apparatus for landing. O. Krell. 1,734,812; Nov. 5.
- Airships, Apparatus providing heat, light, and radio service for. P. Possin. 1,709,684; Apr. 16.
- Airships, Gas cell for rigid. H. R. Liebert and E. Schoettel. 1,700,096; Jan. 22.
- Airships, Mooring means for. R. H. Upson. 1,724,890; Aug. 13.
- Air-speed and course indicator and recorder for aircraft. R. H. Finley. 1,724,081; Aug. 13.
- Air spring. R. L. Gruss. 1,709,313; Apr. 16.
- Air spring. J. H. O'Neill. 1,733,467; Oct. 29.
- Air spring. J. F. Wallace. 1,718,323; June 25.
- Air-suction apparatus. A. A. Clarke. 1,740,918; Dec. 24.
- Air supplier. J. Adams. 1,737,550; Dec. 3.
- Air tester. S. N. Texander. 1,712,909; May 14.
- Air-testing device. E. H. McFarland. 1,711,238; Apr. 30.
- Air-treatment apparatus for hay fever, etc. F. L. Jorgensen. 1,712,272; May 7.
- Air vent for siphon flush. G. Azone. 1,730,108; Oct. 1.
- Air-volume-controlling device for water-storage tanks. Automatic. A. Penn. Re17,342; June 25.
- Air washer. H. Kreisinger. 1,734,677; Nov. 5.
- Air washer. T. S. Patterson. 1,708,587; Apr. 9.
- Alarm; See—
- Burglar alarm. Tire-deflation alarm.
- Fire alarm.
- Alarm; See—
- Boiler alarm. Incubator alarm.
- Burglar alarm. Signal alarm.
- Fire alarm. Thermostat-controlled alarm.
- Heat-operated alarm.
- Alarm. F. P. A. Weyler. 1,722,447; July 30.
- Alarm. L. J. Stacy and M. E. Krom. 1,725,022; Aug. 20.
- Alarm and signal device, Mechanically-operated. C. Mamet. 1,722,333; July 30.
- Alarm and telephone call box, Combination fire and police. R. W. Carnahan. 1,704,697; Mar. 12.
- Alarm apparatus. J. A. Morrison. 1,732,276; Oct. 22.
- Alarm circuit system. G. C. Snyders, C. Gordyn, jr., J. Van de Kamp, and C. E. A. Maitland. 1,734,781; Nov. 5.
- Alarm-control device, Speed-. S. G. Sears. 1,705,031; Mar. 12.
- Alarm device. P. Budean. 1,701,494; Feb. 12.
- Alarm device. G. D. Clark. 1,705,715; Mar. 19.
- Alarm device, Burglar-. M. J. Cawley. 1,708,661; Apr. 9.
- Alarm device, Pressure-. G. R. Baldwin. 1,739,568; Dec. 17.
- Alarm device, Theft-. J. A. Milliken. 1,708,279; Apr. 9.
- Alarm for connectors, Retarded. R. Taylor. 1,708,244; Apr. 9.
- Alarm for deflated pneumatic tires. D. B. Simpson. 1,734,275; Nov. 5.
- Alarm equipment, High and low voltage. C. E. Lomax. 1,700,540; Jan. 29.
- Alarm for filters, Overflow. W. W. Nugent. 1,708,235; Apr. 9.
- Alarm for thermostats, Electrical. H. Piquet. 1,731,937; Oct. 15.
- Alarm mechanism. A. G. Pappadakis. 1,734,341; Nov. 5.
- Alarm mechanism for regenerative reversal systems. A. MacArthur. 1,703,116; Feb. 26.
- Alarm or signal for motor-driven vehicles, Theft. E. E. Scott. 1,729,800; Oct. 1.
- Alarm signal. A. Sherwood. 1,737,774; Dec. 3.
- Alarm signal system. W. Pijakowski. 1,700,950; Feb. 5.
- Alarm system. W. C. Roe. 1,709,097; Apr. 16.
- Alarm system, Electric. F. J. Stalmach. 1,729,137; Sept. 24.
- Alarm system, Fire. D. F. Quigley. 1,705,227; Mar. 12.
- Alarm system, Pressure-drop. M. W. Henry. 1,703,734; Feb. 26.
- Alarm system, Rectifier. W. H. T. Holden. 1,703,146-7; Feb. 26.
- Album. G. M. Hale. 1,729,480; Sept. 24.
- Album for phonograph records. A. Wiehl. 1,698,249; Jan. 8.
- Albuminous substances from saccharine juices, including molasses, Removing. J. Pohlmann and J. R. F. Rassers. 1,726,451; Aug. 27.
- Alcohol and methylfuran, Manufacture of furfuryl. E. Ricard and H. M. Guinot. 1,739,919; Dec. 17.
- Alcohol and producing the same. J. J. de la Roza, sr. 1,709,610; Apr. 16.
- Alcohol, Apparatus for the continuous manufacture of absolute. E. Ricard. 1,704,213; Mar. 5.
- Alcohol beverage from beer, Producing a low-. V. Gilbert. 1,717,920; June 18.
- Alcohol, Esters of hexyl. H. D. Young. 1,702,188; Feb. 12.
- Alcohol, Producing absolute. E. I. Clapp. 1,702,495; Feb. 19.
- Alcohol, Producing diacetone. C. Ellis. 1,701,473; Feb. 5.
- Alcohol, Manufacture of. C. B. Carter. 1,733,720; Oct. 29.
- Alcohol, Manufacture of methyl. H. Dreyfus. 1,738,989; Dec. 10.
- Alcohols, Esters of hydrogenated aromatic. R. H. Van Schaack, Jr. 1,697,295; Jan. 1.
- Alcohols from polymers, Separation of. R. M. Isham. 1,732,894; Oct. 22.
- Alcohols from polymers, Separation of heavy. S. R. Merley. 1,732,903; Oct. 22.
- Alcohols, Making higher. R. H. McKee and S. P. Burke. 1,738,785; Dec. 10.
- Alcohols or phenols from mixtures, Isolating. F. O. Zeitschel. 1,733,440; Oct. 29.
- Alcohols, Producing butyl and isopropyl. A. Izsak. 1,725,083; Aug. 20.
- Alcohols, Production of halogenated. J. Callsen. 1,725,054; Aug. 20.
- Alcohols, Purifying. H. E. Buc. 1,712,475; May 7.
- Aldehyde-amine reaction products, Manufacture of. C. O. North and W. Scott. 1,737,384; Nov. 26.
- Aldehyde-amine reaction products, Manufacturing derivatives of. W. Scott. 1,737,391; Nov. 26.
- Aldehyde and the product thereof, Making unsaturated. A. Knorr and A. Weissenborn. 1,716,822; June 11.
- Aldehyde condensation products, Obtaining. M. Melamid. 1,727,076; Sept. 3.
- Aldehyde condensation products, Production of nonturbid. R. A. Norton. 1,702,052; July 9.
- Aldehyde derivative of reaction products of aldehydes and amines and making same, Higher. C. O. North. Re17,511; Dec. 3.
- Aldehyde of the aromatic series and making same, New chlorinated. G. Kallscher, H. Scheyer, and K. Keller. 1,717,567; June 18.



- Aldehyde manufacture. A. H. Maude. 1,738,659; Dec. 10.  
 Aldehyde sulphoxylate, Production of. C. Schumann, E. Münch, O. Schlichting, and B. Christ. 1,714,637; May 28.  
 Aldehydes and phenols, Production of new derivatives of the condensation products of. H. Bucherer. 1,697,713; Jan. 1.  
 Aldehydes, Esterifying. J. Schalch and J. W. Olson. 1,708,902; Apr. 9.  
 Aldehydes from oxidation and agents thereof, Protection of. H. A. Morton. 1,736,747; Nov. 19.  
 Alighting means for lighter-than-air ships. W. V. N. Powelson and W. Travell. 1,699,672; Jan. 22.  
 Alignment coupling. H. Cooper. 1,722,625; July 30.  
 Alignment coupling. H. Cooper. 1,732,354; Oct. 22.  
 Aligning device, Wheel. N. B. Nichols. 1,702,794; Feb. 19.  
 Aligning sheets, Device for. H. F. Heileman. 1,727,011; Sept. 3.  
 Alimentary paste drier. M. Cantella. 1,722,732; July 30.  
 Aliphatic compound, Manufacture of an. H. Dreyfus. 1,735,959; Nov. 19.  
 Aliphatic compound, Manufacture of an. H. Dreyfus. 1,735,962; Nov. 19.  
 Alkali and other products, Production of caustic. L. Bradley and E. P. McKee. 1,702,589; Feb. 19.  
 Alkali carbonates and ammonia, by saponification of calcium cyanamide, Production of. M. Buchner. 1,737,297; Nov. 26.  
 Alkaline chlorides, Apparatus for electrolyzing chiefly. A. P. H. Dupire. 1,741,290; Dec. 31.  
 Alkaline-earth materials, Calcining. W. Crow. 1,710,967; Apr. 30.  
 Alkaline purifying beds, Regeneration of. R. C. Wheeler and P. W. Prutzman. 1,728,156; Sept. 10.  
 Alkali-metal alcohols. L. P. Kyrides. 1,712,830; May 14.  
 Alkali metal compound of a suboxide of titanium and derivatives therefrom. F. Von Bichowsky. 1,731,364; Oct. 15.  
 Alkali-metal cyanide process and apparatus. H. B. Kipper. 1,699,362; Jan. 15.  
 Alkali-metal cyanide production. H. B. Kipper. 1,697,529; Jan. 1.  
 Alkali-metal nitrate, Producing. W. Wild and C. Beck. 1,699,643; Jan. 22.  
 Alkali-metal nitrate, Production of. W. Wild and C. Beck. 1,699,644; Jan. 22.  
 Alkali-metal salts of halogenated amides of aromatic sulphonic acids, Manufacture of. H. Günzler. 1,699,888; Jan. 22.  
 Alkali-metal silicates that are soluble in water, Production of. B. F. Halvorsen. 1,718,292; June 25.  
 Alkali-metal titanate and making same. L. W. Ryan. 1,697,929; Jan. 8.  
 Alkali metal xanthates, Manufacture of. T. W. Bartram and H. P. Roberts. 1,718,937; July 2.  
 Alkali of high concentration, Manufacture of. F. Bencker. 1,704,909; Mar. 12.  
 Alkali silicate product and making same. N. M. Elias. 1,724,185; Aug. 13.  
 Alkaloid salts and making same. W. Schoeller and H. Schotte. 1,717,585; June 18.  
 Alkoxyacridines. L. Benda and W. Schmidt. 1,715,332; May 28.  
 Alkylisoresinduline-sulphonic acids, Manufacture of. P. Läger. 1,703,772; Feb. 26.  
 Alkyl halides, Making. R. H. McKee. 1,738,193; Dec. 3.  
 Alkyl resorcinols, Production of. A. R. L. Dohme. 1,697,168; Jan. 1.  
 Alloy. F. M. Becket. 1,710,445; Apr. 23.  
 Alloy. W. Borchers and R. W. Stimson. 1,740,678-9; Dec. 24.  
 Alloy. P. C. Chesterfield. 1,698,936; Jan. 15.  
 Alloy. F. A. Fahrenwald. 1,704,733; Mar. 12.  
 Alloy, etc. N. V. Hybinette. 1,726,489; Aug. 27.  
 Alloy. D. C. Lee. 1,714,679; May 28.  
 Alloy. J. V. O. Palm. 1,741,733; Dec. 31.  
 Alloy. G. G. Marshall and H. S. Booth. 1,713,766; May 21.  
 Alloy, Aluminum-base. S. Daniels. 1,710,148; Apr. 23.  
 Alloy and articles made therefrom, Nickel-chromium-iron. W. Rohm. 1,736,053; Nov. 19.  
 Alloy and forming the same, Metallic. H. L. Coles and J. G. Donaldson. 1,702,765; Feb. 19.  
 Alloy and its manufacture. J. W. Marden. 1,731,255; Oct. 15.  
 Alloy and making alloys. K. S. Seljesaeter. 1,722,358; July 30.  
 Alloy and making it, Ferro-aluminum. R. P. De Vries and H. A. De Fries. 1,718,685; June 25.  
 Alloy and making same. J. V. O. Palm. 1,704,208; Mar. 5.  
 Alloy and making same, Magnesium. E. C. Burdick. 1,721,768; July 23.  
 Alloy and making the same. P. C. Chesterfield. 1,698,934; Jan. 15.  
 Alloy and manufacturing the same, Aluminum. P. Berthélemy and H. de Montby. 1,737,385; July 30.  
 Alloy and manufacturing the same, Hard. P. M. McKenna. 1,737,255; Nov. 26.  
 Alloy and preparing the same, Thorium. H. S. Cooper. 1,732,326; Oct. 22.  
 Alloy and process of heat treatment. M. G. Corson. 1,732,327; Oct. 22.  
 Alloy and producing same, Plastic light aluminum. V. N. Hybinette. 1,704,253; Mar. 5.  
 Alloy and producing the same with varying physical properties, Copper and lead. A. H. Ackerman. 1,724,896; Aug. 20.  
 Alloy and treating the same, Nickel manganese steel. C. McKnight, Jr., T. H. Wickenden, and P. D. Merica. 1,697,130; Jan. 1.  
 Alloy and working and heat treating the same. M. G. Corson. 1,729,208; Sept. 24.  
 Alloy, Antifatigue. V. N. Hybinette. 1,704,251; Mar. 5.  
 Alloy, Bearing-metal. K. Müller and W. Sander. 1,731,021; Oct. 8.  
 Alloy, Brazing. A. E. Averrett. 1,724,818; Aug. 13.  
 Alloy, Chilled-rolled. F. D. Taggart. 1,707,332; Apr. 2.  
 Alloy containing chromium and tantalum. Rust, acid, and heat resisting ferrous. P. A. E. Armstrong. 1,711,484; May 7.  
 Alloy, Copper-aluminum. E. Vaders. 1,718,502; June 25.  
 Alloy, Copper cobalt. M. G. Corson. 1,723,922; Aug. 6.  
 Alloy, Ferrous. L. W. Mallasee. 1,714,177; May 21.  
 Alloy for electrical conductors. M. G. Korsunsky. 1,723,867; Aug. 6.  
 Alloy for high-speed steel. M. S. Clawson. 1,729,154; Sept. 24.  
 Alloy for use in manufacturing electrical contacts, Metal. H. M. Fredriksen. 1,732,839; Oct. 22.  
 Alloy, Gold. V. D. Davignon. 1,731,210; Oct. 8.  
 Alloy, Gold. V. D. Davignon. 1,731,211; Oct. 8.  
 Alloy, Gold. V. D. Davignon. 1,731,212-3; Oct. 8.  
 Alloy, High-speed. P. C. Chesterfield. 1,698,935; Jan. 15.  
 Alloy, Iron. A. F. Hilton. 1,729,386-7; Sept. 24.  
 Alloy, Iron. J. A. Parsons. 1,728,360; Sept. 17.  
 Alloy, Light-metal. J. A. Gann. 1,718,642; June 25.  
 Alloy, Magnetic. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,728,451; Sept. 17.  
 Alloy, Magnetic. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,740,880; Dec. 24.  
 Alloy, Malleable iron. A. L. Boegehold. 1,707,753; Apr. 2.  
 Alloy, Metallic. H. A. Behrens. 1,720,756; July 16.  
 Alloy, Metallic. H. L. Coles and J. G. Donaldson. 1,698,212; Jan. 8.  
 Alloy of aluminum, silicon, and iron. B. D. Saklatwalla. 1,732,915; Oct. 22.  
 Alloy of magnesium. J. A. Gann. 1,729,339; Sept. 24.  
 Alloy, Resistance. M. N. Rich. 1,731,267; Oct. 15.  
 Alloy, Ruthenium. M. M. Goldsmith and W. H. Falck. 1,730,003; Oct. 1.  
 Alloy, Steel. J. L. Cox. 1,711,519; May 7.  
 Alloy, Steel. A. Fry. 1,735,744; Nov. 12.  
 Alloy, Steel. E. Houdremont and V. Ehmcke. 1,711,733; May 7.  
 Alloy steel. F. C. Langenberg. 1,723,868; Aug. 6.  
 Alloy steel, Air-toughened. J. H. Hall and J. S. Comerford. 1,732,202; Oct. 15.  
 Alloy steel building material. W. Hülsbruch. 1,727,775; Sept. 10.  
 Alloy steels, Making. J. L. Andren. 1,699,731; Jan. 22.  
 Alloy, Tungsten. H. Falkenberg. 1,703,577; Feb. 26.  
 Alloy, Tungsten-tantalum. J. H. Ramage. 1,741,953; Dec. 31.  
 Alloy, Vanadium. B. D. Saklatwalla. 1,715,867; June 4.  
 Alloy, Vanadium-aluminum-silicon. B. D. Saklatwalla. 1,727,180; Sept. 3.  
 Alloy with high electric resistance, Fire-resistant. H. G. A. von Kantzow. 1,717,284; June 11.  
 Alloys, Improving aluminum. W. Sander. 1,726,194; Aug. 27.  
 Alloys low in tin and arsenic, Manufacture of tungsten. F. M. Becket. 1,706,344; Mar. 19.  
 Alloys of lead with alkaline-earth metals, Production of. G. J. Kroll. 1,707,059; Mar. 26.  
 Alloys, Making tungsten. O. L. Mills. 1,721,966; July 23.  
 Alloys, Manufacture of. W. M. Grosvenor and V. P. Gershon. 1,716,050; June 4.  
 Alloys, Preparing low-carbon. V. B. Browne. 1,710,446; Apr. 23.  
 Alloys, Refinement of nickel. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,710,846; Apr. 30.  
 Alloys to alloys, Brazing copper. H. Wagener. 1,722,025; July 23.  
 Alloys, Treating lead. G. W. Thompson. 1,740,752; Dec. 24.  
 Almond milk composition. H. Hofer-Massard. 1,721,522; July 23.  
 Alpha-anthraquinonyl ketones and preparing same. G. Kranzlein, H. Vollmann, and K. Wilke. 1,725,927; Aug. 27.  
 Alpha-hydrazino-beta-nitro-pyridine, Preparation of. C. Rätz. 1,733,695; Oct. 29.  
 Alpha-naphthylamine from a mixture of alpha and beta-naphthylamines, Obtaining. H. J. Weiland and I. Gubelmann. 1,722,026; July 23.  
 Alternating-current motor. S. H. Mortensen. 1,698,556; Jan. 8.  
 Alternator-field-control system. J. L. Finch. 1,728,403; Sept. 17.  
 Alternator with inherent regulation. E. R. Witzel. 1,723,111; Aug. 6.  
 Attimeter and telemeter, Combined. A. Castellani. 1,725,617; Aug. 20.  
 Altitude, Determining. K. H. Beij. 1,703,705; Feb. 26.



- Alumina, Disintegrated. C. von Girsewald, H. Siegens, and M. Marschner. 1,704,599; Mar. 5.
- Aluminous cement, Manufacturing. E. Martin. 1,716,527; June 11.
- Aluminum articles, Surface treating. A. Pacz. 1,710,743; Apr. 30.
- Aluminum-beryllium alloy and method of treatment. R. S. Archer and W. L. Fink. 1,716,943; June 11.
- Aluminum castings and molds for use therein, Production of. E. R. Strasser. 1,724,624; Aug. 13.
- Aluminum chloride, Making. A. M. Buley. 1,734,200; Nov. 5.
- Aluminum-chloride process. H. I. Lea and C. W. Humphrey. 1,713,968; May 21.
- Aluminum chlorosulphate, Making. H. Blumenberg, jr. 1,734,196; Nov. 5.
- Aluminum hydrate particularly from aluminum-containing raw materials rich in silica, Producing pure. E. L. Rinman. 1,732,772; Oct. 22.
- Aluminum material, Forming an electrically-insulating and anticorrosive oxide coating on. S. Setoh and S. Ueki. 1,735,509; Nov. 12.
- Aluminum materials and preparing the same. R. R. Ridgway and J. B. Glaze. 1,719,131; July 2.
- Aluminum oxide from aluminum sulphide, Making. F. C. von Girsewald. 1,713,411; May 14.
- Aluminum oxide, Purifying. S. E. Sieurin and A. S. Edlund. 1,726,001; Aug. 27.
- Aluminum plated article and producing the same. D. Gray, R. O. Bailey, and W. S. Murray. 1,723,277; Aug. 6.
- Aluminum, Producing. J. Weber and H. Hauser. 1,709,759; Apr. 16.
- Aluminum, Production of oxide of. S. E. Sieurin. 1,701,510; Feb. 12.
- Aluminum to steel cylinder construction, Composite. G. D. Angle and G. E. A. Hallett. 1,710,136; Apr. 23.
- Amalgamator. D. H. Kleinschmidt. 1,708,970; Apr. 16.
- Amalgamator. H. C. Manon, and J. A. and J. Z. Bromley. 1,704,010; Mar. 5.
- Amalgams, Method of using. L. H. Duschak. 1,736,072; Nov. 19.
- Amber, Fashioned articles of. O. Heinrich. 1,698,794; Jan. 15.
- Ammeter. J. E. Eshbaugh. 1,735,919; Nov. 19.
- Ammeter. D. V. Fallon. 1,709,973; Apr. 23.
- Ammeter. R. O. Helgeby. 1,723,035; Aug. 6.
- Ammeter—magnetic-pointer type. J. E. Eshbaugh. 1,737,303; Nov. 26.
- Aminophenolethers, Preparing. E. F. Grether. 1,722,417; July 30.
- Ammonia as a lubricant, Use of. F. A. Ernst and C. H. Young. 1,739,957; Dec. 17.
- Ammonia by synthesis of its elements, Producing. F. W. de Jahn. 1,701,478; Feb. 5.
- Ammonia, Combustion of. H. Pauling. 1,722,339; July 30.
- Ammonia from dilute solution, Recovery of. H. Hofmann. 1,701,265; Feb. 5.
- Ammonia from its elements, Production of. C. Müller and F. Krägeloh. 1,727,174; Sept. 3.
- Ammonia from the waste waters in the manufacture of artificial filaments by the cuprammonia process, Recovery of. H. Hofmann. 1,701,110; Feb. 5.
- Ammonia, Manufacture of. C. Ufer. 1,737,953; Dec. 3.
- Ammonia process, Synthetic. J. G. Dely. 1,739,217; Dec. 10.
- Ammonia, Recovery of. F. Osborne. 1,703,405; Feb. 26.
- Ammonia, Synthetic production of. R. S. Richardson. 1,707,417; Apr. 2.
- Ammonium alum. C. M. Brown. 1,709,166; Apr. 16.
- Ammonium benzoate, Manufacture of. J. A. Spina. 1,704,636; Mar. 5.
- Ammonium chloride crystals, Manufacture of. J. W. Moore and W. G. Polack. 1,725,292; Aug. 20.
- Ammonium chloride into ammonia and hydrochloric acid, Converting. J. Kessler. 1,718,420; June 25.
- Ammonium compound and making same. Quaternary. M. Hartmann and J. Kägi. 1,737,458; Nov. 26.
- Ammonium nitrate in water solution and simultaneous concentration thereof, Manufacture of. C. Toniolo. 1,700,914; Feb. 5.
- Ammunition. C. A. Burghardt. 1,724,338; Aug. 13.
- Ammunition for firearms, Fixed. L. L. Dviggs, Jr., and H. B. Faber. 1,712,333; May 7.
- Amniotic fluid and preparing it. J. P. Scott. 1,699,479; Jan. 15.
- Ampere meter, Reactive volt-. B. E. Lenehan. 1,732,687; Oct. 22.
- Amplification. J. M. Schmierer. 1,720,352; July 9.
- Amplification at different frequencies, Method of and apparatus for. S. Cohen. 1,709,062; Apr. 16.
- Amplification system. S. Cohen. 1,740,283; Dec. 17.
- Amplifier. J. Bethenod. 1,725,954; Aug. 27.
- Amplifier. H. Mayer. 1,709,360; Apr. 16.
- Amplifier. J. M. Miller. 1,724,498; Aug. 13.
- Amplifier. W. Schaffer. 1,697,207; Jan. 1.
- Amplifier. W. Schäffer. 1,717,630; June 18.
- Amplifier, Alternating-current. A. V. Loughren. 1,699,110; Jan. 15.
- Amplifier and detector bulb and making the same. G. H. Perryman. 1,736,275; Nov. 19.
- Amplifier and electric-light fixture support, Combination loud-speaker. R. H. Seer. 1,735,549; Nov. 12.
- Amplifier arrangement, High-frequency. W. Runge. 1,724,146; Aug. 13.
- Amplifier circuit, Audio frequency. E. E. Hiller. 1,715,501; June 4.
- Amplifier connection. W. Wolff. 1,699,129; Jan. 15.
- Amplifier for talking machines and like sound-reproducing apparatus. C. E. C. J. Manby. 1,727,072; Sept. 3.
- Amplifier, Horn. J. Berg. 1,705,632; Mar. 19.
- Amplifier, Sound. R. Erenkl. 1,710,572; Apr. 23.
- Amplifier, Sound. J. B. Hawley. 1,727,105; Sept. 3.
- Amplifier, Sound. A. Knudsen. 1,727,651; Sept. 10.
- Amplifier, Sound. A. Seutert. 1,727,136; Sept. 3.
- Amplifier, Sound-reproducing. N. Lalli. 1,736,606; Nov. 19.
- Amplifier system. W. J. Brown. 1,729,983; Oct. 1.
- Amplifier system, Space-discharge. A. G. Landeen. 1,722,099; July 23.
- Amplifier, Thermionic. E. H. Trump. 1,733,408; Dec. 3.
- Amplifier, Tuning thermionic. W. M. Bailey. 1,706,838; Mar. 26.
- Amplifier using transformer coupling between thermionic vacuum tubes, Cascade. C. A. L. Lowry and W. J. Watling. 1,697,923; Jan. 8.
- Amplifier, Variable band. F. K. Vreeland. 1,730,987; Oct. 8.
- Amplifying and repeating system, Electrical signal. B. F. Miessner. 1,719,189; July 2.
- Amplifying and television device, Combined. W. P. McHugh. Des. 73,775; June 18.
- Amplifying circuit. F. X. Rettenmeyer. 1,724,965; Aug. 20.
- Amplifying device for radio apparatus. J. A. Grier. 1,733,983; Oct. 29.
- Amplifying low-frequency speech currents of radioreceivers, Apparatus for. G. Eichhorn. 1,735,267; Nov. 12.
- Amplifying means, Power-. E. F. W. Alexanderson. 1,706,094; Mar. 19.
- Amplifying system. B. Olney. 1,719,445; July 2.
- Amplifying system. C. W. Rice and E. W. Kellogg. 1,728,879; Sept. 17.
- Amplifying system. H. Whittle and A. J. Christopher. 1,714,149; May 21.
- Ampul. A. A. Brown. 1,739,288; Dec. 10.
- Ampul. A. E. Smith. 1,718,593; June 25.
- Ampul. A. E. Smith. 1,718,595; June 25.
- Ampul. A. E. Smith. 1,718,603; June 25.
- Ampul, Multiple. S. Kabnick. 1,727,987; Sept. 10.
- Amusement and exercising device. W. F. Hudson. 1,712,703; May 14.
- Amusement and recreative device for fairs and the like. N. Chausser. 1,712,550; May 14.
- Amusement apparatus. T. Boldizzoni. 1,717,003; June 11.
- Amusement apparatus. L. O. Dowers. 1,726,262; Aug. 27.
- Amusement apparatus. H. B. Faber. 1,732,597; Oct. 22.
- Amusement apparatus. E. O. Fankhauser and J. J. McCoy. 1,712,340; May 7.
- Amusement apparatus. A. R. Johnson. 1,707,859; Apr. 2.
- Amusement apparatus. B. Lester. 1,713,703; May 21.
- Amusement apparatus. F. Manfredi. 1,705,987; Mar. 19.
- Amusement apparatus. W. F. Mangels. 1,700,640; Jan. 29.
- Amusement apparatus. W. F. Manning. 1,716,235; June 4.
- Amusement apparatus. P. S. McLaughlin. 1,718,167; June 18.
- Amusement apparatus. G. Meling. 1,712,353; May 7.
- Amusement apparatus. T. Sawers and W. E. Evans, jr. 1,702,136; Feb. 12.
- Amusement apparatus. H. W. Sellner. 1,707,687; Apr. 2.
- Amusement apparatus. L. A. Wallace. 1,697,701; Jan. 1.
- Amusement apparatus. J. B. Watling. 1,703,561; Feb. 26.
- Amusement device. H. N. Barnum. 1,703,378; Feb. 26.
- Amusement device. A. H. Bechtol and W. A. Tratsch. 1,721,201; July 16.
- Amusement device. C. Britton and C. McCormack. 1,739,945; Dec. 17.
- Amusement device. G. D. Bulmer. 1,730,265; Oct. 1.
- Amusement device. L. Cappabianco. 1,733,355; Dec. 3.
- Amusement device. J. De Bracht. 1,709,660; Apr. 16.
- Amusement device. E. C. Fey. 1,731,655; Oct. 15.
- Amusement device. H. Kitz. 1,703,770; Feb. 26.
- Amusement device. L. Marx. 1,701,503; Feb. 12.
- Amusement device. J. McBride. 1,726,444; Aug. 27.
- Amusement device. H. T. Pulsifer. 1,709,373; Apr. 16.
- Amusement device. A. Schiak. 1,720,060; July 9.
- Amusement device. A. Vasin. 1,734,064; Nov. 5.
- Amusement device. W. D. Watling. 1,701,740-1; Feb. 12.
- Amusement device. W. Zoobley. 1,714,749; May 28.
- Amusement device, Bather's. N. De Pento. 1,718,637; June 25.
- Amusement device, Child's. R. P. Schiffmann. 1,730,168; Oct. 1.
- Amusement device, Riding. H. F. Giese. 1,731,621; Oct. 15.
- Amusement device, Vehicular. J. E. Foss. 1,707,516; Apr. 2.
- Amusement house. F. Thomas. Des. 79,998; Nov. 26.
- Amusement house. F. Thomas. 1,738,732; Dec. 10.
- Amusement machine. J. F. Meyer. 1,709,862; Apr. 23.
- Amusement ride. J. Irsch. 1,734,856; Nov. 5.
- Amusement ride. H. F. Maynes. 1,741,245-6; Dec. 31.
- Amusement ride. H. W. Sellner. 1,737,032; Nov. 26.
- Amusement ride. H. G. Traver. 1,713,793; May 21.
- Amusement ride. H. G. Traver. 1,732,248; Oct. 22.
- Amusement structure. C. W. Read. 1,709,877; Apr. 23.
- Amyl chloromalonamide, Normal. A. W. Dox. 1,713,822; May 21.



- Anæsthetic compound. R. Adams and O. A. Barnes. 1,724,248; Aug. 13.
- Anæsthetic gas and making same. M. B. Cheney. 1,712,250; May 7.
- Anchor. R. E. Beegle. 1,702,376; Feb. 19.
- Anchor. W. E. Beeker. 1,713,516; May 21.
- Anchor. T. Birkenmaier. 1,742,162; Dec. 31.
- Anchor. B. F. Colvin. 1,726,526; Sept. 3.
- Anchor. W. O. Isaacson. 1,741,776; Dec. 31.
- Anchor. J. Matte, jr. 1,727,296; Sept. 3.
- Anchor. E. F. Owen. 1,705,335; Mar. 12.
- Anchor adjustment, Brake-. G. L. Rothrock. 1,727,787; Sept. 10.
- Anchor and angle-cock holder, Pipe. R. W. Burnett. 1,710,965; Apr. 30.
- Anchor and the like, Pipe-hanger. L. J. Brown. 1,730,264; Oct. 1.
- Anchor and tie plate, Combined rail. O. J. Surprenant and H. B. Bachrach. 1,720,578; July 9.
- Anchor, Bolt. J. J. Rawlings. 1,708,896; Apr. 9.
- Anchor bolts, Insert for. H. A. Selah. 1,732,699; Oct. 22.
- Anchor, Brake. J. Sneed. 1,726,046; Aug. 27.
- Anchor, Buck. L. J. McKenzie. 1,725,406; Aug. 20.
- Anchor, Cable. E. K. Cole. 1,702,536; Feb. 19.
- Anchor, Earth. A. B. Chance. 1,714,766; May 28.
- Anchor, Earth. E. K. Cole. 1,724,341; Aug. 13.
- Anchor, Fence-post. H. E. Halgrimson. 1,717,557; June 18.
- Anchor, Flexible. J. E. Anderson. 1,720,875; July 16.
- Anchor for bolts, Expansion. J. W. Hooley. 1,710,639; Apr. 23.
- Anchor for drill-steel guides. E. J. Downing, B. R. Sheets, and L. E. Croft. 1,719,003; July 2.
- Anchor for guy wires, Ground. A. T. Green and R. G. Shaw. 1,724,401; Aug. 13.
- Anchor for pipes in wells. H. F. Smith. 1,713,150; May 14.
- Anchor for railway rails, Rail. W. E. Williams. 1,721,843; July 23.
- Anchor for railways, Rail. A. E. H. Barill' and T. F. von Dorn. 1,704,647; Mar. 5.
- Anchor for use in veneering concrete structures. E. K. Cole. 1,734,364; Nov. 5.
- Anchor, Frame. I. A. Baum. 1,712,019; May 7.
- Anchor insert. C. A. Kinninger. 1,726,496; Aug. 27.
- Anchor insert for concrete work. D. H. Bitney. 1,718,402; June 25.
- Anchor, Kedge. C. A. Mansell. 1,731,785; Oct. 15.
- Anchor, Pipe. R. W. Burnett. 1,740,765; Dec. 24.
- Anchor, Rail. E. L. Barrett. 1,722,885; July 30.
- Anchor, Rail. R. A. Blair. 1,698,986; Jan. 15.
- Anchor, Rail. C. G. Ericson. 1,722,567; July 30.
- Anchor, Rail. A. F. Fifield. 1,708,917; Apr. 9.
- Anchor, Rail. A. F. Fifield. 1,738,237; Dec. 3.
- Anchor, Rail. L. Kadar. 1,705,295; Mar. 12.
- Anchor, Rail. L. Kadar. 1,716,728; June 11.
- Anchor, Rail. C. M. Knapp. 1,699,195; Jan. 15.
- Anchor, Rail. C. Konold. 1,739,004; Dec. 10.
- Anchor, Rail. J. H. Larmonth. 1,706,926; Mar. 26.
- Anchor, Rail. J. H. Larmonth. 1,708,477; Apr. 9.
- Anchor, Rail. L. D. Lovekin. 1,708,510; Apr. 9.
- Anchor, Rail. G. L. Moore and J. R. Steele. 1,720,087-8; July 9.
- Anchor, Rail. N. D. Natale. 1,728,188; Sept. 17.
- Anchor, Rail. A. T. Palmer. 1,710,838; Apr. 30.
- Anchor, Rail. A. T. Palmer. 1,730,624; Oct. 8.
- Anchor, Rail. C. B. Shepherd. 1,697,145-7; Jan. 1.
- Anchor, Rail. F. M. Slough. 1,731,595; Oct. 15.
- Anchor, Rail. C. A. Strait. 1,728,775; Sept. 17.
- Anchor, Rail. H. G. Warr. 1,698,975; Jan. 15.
- Anchor, Rail. H. G. Warr. 1,711,293; Apr. 30.
- Anchor, Rail antireep and antispread. A. J. Cook. 1,724,182; Aug. 13.
- Anchor, Railroad-rail. W. D. Achuff. 1,721,541; July 23.
- Anchor, Railway-rail. J. A. Hyle and C. R. Keatley. 1,702,210; Feb. 12.
- Anchor, Railway-rail. H. G. Norwood. 1,702,978; Feb. 19.
- Anchor, Railway-rail. H. G. Norwood. 1,722,107-8; July 23.
- Anchor raising and lowering means. W. A. Hausenfluck. 1,739,859; Dec. 10.
- Anchor, Retaining-valve. G. Heidman and V. H. Harbert. 1,730,367; Oct. 8.
- Anchor, Retaining valve. L. C. Koopmans. 1,722,755; July 30.
- Anchor, Safety. A. Barbellio. 1,738,029; Dec. 3.
- Anchor, Sash-cord. J. A. Cohen. 1,713,422; May 14.
- Anchor, Screw. T. W. Ross. 1,718,438; June 25.
- Anchor, Self-contained gas. H. N. Marsh. 1,697,321; Jan. 1.
- Anchor, Self-releasing joist. F. B. Forbes. 1,704,826; Mar. 12.
- Anchor, Snap-on live-decoy. W. A. Freeman. 1,697,561; Jan. 1.
- Anchor, Timber. R. E. Beegle. 1,737,908; Dec. 3.
- Anchor, Tubing. E. V. Crowell. 1,699,051; Jan. 15.
- Anchor, Tubing. O. S. Shaw. 1,716,245; June 4.
- Anchor, Wall. C. G. Froehlich. 1,729,935; Oct. 1.
- Anchorage clamp, Cable-straining. L. I. Clark. 1,715,056; May 28.
- Anchorage device. H. Rosenberg. 1,719,136; July 2.
- Anchorage device. W. H. Wheeler and J. C. Logan. 1,705,793-4; Mar. 19.
- Anchorage device, Vehicle. C. A. Goodspeed. 1,699,290; Jan. 15.
- Anchorage for automobile radiators. W. W. Muir. 1,737,057; Nov. 26.
- Anchoring and leveling device, Screed. R. V. Yeager. 1,699,557; Jan. 22.
- Anchoring device. J. Dubois and B. Plantade. 1,721,436; July 16.
- Anchoring device. G. W. Elsey. 1,730,197; Oct. 1.
- Anchoring device for airships. B. Schnitzer and W. E. Dörr. 1,706,415; Mar. 26.
- Anchoring device for dental bridgework. E. Sörensen. 1,705,504; Mar. 19.
- Anchoring device, Post-. W. Werner. 1,705,742; Mar. 19.
- Anchoring device, Vehicle-. V. P. Rumely. 1,727,446; Sept. 10.
- Anchoring device, Wall-. C. W. Prickett. 1,699,206; Jan. 15.
- Anchoring mechanism, Springboard-. A. Veilleux. 1,722,402; July 30.
- Anchoring post. F. A. Thomas. 1,703,461; Feb. 26.
- Anchors, Making rail. N. E. Sumpson. 1,700,775; Feb. 5.
- Andiron. G. W. Donley. Des. 77,821; Feb. 26.
- Andiron. H. J. Gross. Des. 79,136; Aug. 6.
- Andirons, Making. R. M. Evans. 1,727,817; Sept. 10.
- Angle bar for joining rails. F. C. Hasse. 1,719,824; July 9.
- Angle bars, Renewing worn. G. Langford. 1,732,650; Oct. 22.
- Angle-cock device. C. C. Farmer. 1,739,584; Dec. 17.
- Angle-cock device. J. C. McCune. 1,707,273; Apr. 2.
- Angle-cock device. J. W. Rush. 1,707,280; Apr. 2.
- Angle-iron shear. J. Jensen. 1,721,182; July 16.
- Aniline and other arylamines, Making. W. J. Hale and J. W. Britton. Re17,280; Apr. 23.
- Aniline and other arylamines, Making. W. H. Williams and J. W. Britton. 1,726,171; Aug. 27.
- Aniline and similar amine compounds, Making. W. H. Williams and J. W. Britton. 1,726,173; Aug. 27.
- Aniline black on textile fibers, Production of. L. A. Lantz and R. Watson. 1,739,908; Dec. 17.
- Aniline, Making. J. W. Britton and W. H. Williams. 1,726,170; Aug. 27.
- Anilines, Making halogenated. W. J. Hale and G. H. Cheney. 1,729,775; Oct. 1.
- Animal controller. J. M. Larson. 1,702,697; Feb. 19.
- Animal extermination, Underground-. J. W. Van Meter. 1,727,457; Sept. 10.
- Animal figure. A. C. Frankle. Des. 77,594; Jan. 29.
- Animal heater. J. E. Gibbs. 1,722,569; July 30.
- Animal poke. H. E. Moore. 1,718,062; June 18.
- Animal-poking implement. E. W. Farlin. 1,734,082; Nov. 5.
- Animal training and racing apparatus. W. Schem. 1,728,576; Sept. 17.
- Animal trap. H. W. Abel. 1,722,879; July 30.
- Animal trap. M. W. Askin. 1,714,068; May 21.
- Animal trap. J. E. Baum. 1,715,445; June 4.
- Animal trap. A. Bergstrom. 1,733,856; Sept. 29.
- Animal trap. A. Brzykcy. 1,708,659; Apr. 9.
- Animal trap. F. H. Bushman. 1,713,167; May 14.
- Animal trap. W. J. Chisholm. 1,740,333; Dec. 17.
- Animal trap. B. Coe. 1,728,228; Sept. 17.
- Animal trap. W. Cooper. 1,726,694; Sept. 3.
- Animal trap. J. J. Daniels. 1,703,990; Mar. 5.
- Animal trap. J. Fox. 1,701,261; Feb. 5.
- Animal trap. W. A. Gibbs. 1,709,719; Apr. 16.
- Animal trap. W. F. Hendricks. 1,734,855; Nov. 5.
- Animal trap. J. H. Hendrickson. 1,716,959; June 11.
- Animal trap. R. C. Kelley. 1,726,493; Aug. 27.
- Animal trap. P. Krugel. 1,712,115; May 7.
- Animal trap. C. A. Lander. 1,733,350; Oct. 29.
- Animal trap. H. C. Loftsgaarden. 1,726,909; Sept. 3.
- Animal trap. F. R. McDougal. 1,712,893; May 14.
- Animal trap. M. J. Newhouse. 1,708,149; Apr. 9.
- Animal trap. J. A. Rollins. 1,738,448; Dec. 3.
- Animal trap. E. E. Sholin. 1,728,701; Sept. 17.
- Animal trap. E. Stroth. 1,701,345; Feb. 5.
- Animal trap. I. S. Swint. 1,726,167; Aug. 27.
- Animal trap. R. Thompson. 1,732,919; Oct. 22.
- Animal trap. A. Waltner. 1,740,632; Dec. 24.
- Animal trap, Automatic. G. F. Fisher. 1,740,583; Dec. 24.
- Animal trap, Self-setting. W. Young. 1,734,663; Nov. 5.
- Animator for artificial flies for luring game fish. G. F. Reinhardt. 1,734,346; Nov. 5.
- Anklet. J. W. Rogers. 1,725,597; Aug. 20.
- Annealed thorium and making the same. W. B. Gero. 1,719,975; July 9.
- Annealing and cleaning process, Continuous. H. M. Naugle and A. J. Townsend. 1,704,015; Mar. 5.
- Annealing and cleaning process, Continuous. H. M. Naugle and A. J. Townsend. 1,721,351; July 16.
- Annealing and heat treating furnace. A. T. Kathner. Re17,413; Aug. 20.
- Annealing apparatus, Continuous. H. M. Naugle and A. J. Townsend. 1,721,350; July 16.
- Annealing equipment and method. T. F. Bailly. 1,727,192; Sept. 3.
- Annealing furnace. F. T. Cope. 1,704,036; Mar. 5.
- Annealing furnace. W. J. Diederichs. 1,707,300; Apr. 2.
- Annealing furnace. A. Fuchs. 1,699,784; Jan. 22.
- Annealing furnace. W. M. Hepburn and E. W. Weaver. 1,716,956; June 11.
- Annealing furnace, Recuperative. F. T. Cope. 1,738,038; Dec. 3.



- Annealing furnace, Recuperative. J. Schnepf. 1,705,686; Mar. 19.
- Annealing glassware, Apparatus for. J. F. Black. 1,703,073; Feb. 19.
- Annealing glassware, Apparatus for. V. Mulholland. 1,698,480; Jan. 8.
- Annealing glassware, Method of and apparatus for. R. L. Frink. 1,704,502; Mar. 5.
- Annealing glassware, Method of and apparatus for. P. Q. Williams. 1,714,707; May 28.
- Annealing, Method of and apparatus for. O. Tängring. 1,734,697; Nov. 5.
- Annealing process, Continuous. H. M. Naugle and A. J. Townsend. 1,714,040; May 21.
- Annealing sheet glass, Apparatus for. V. Mulholland. 1,698,479; Jan. 8.
- Annealing silicon steel sheets. W. E. Caugherty and C. J. Stroble. 1,706,438; Mar. 26.
- Annunciator. I. Scriven. 1,715,519; June 4.
- Annunciator and operating means therefor. H. L. Ungerer. 1,740,129; Dec. 17.
- Anode. F. J. Delavie and H. H. Blouch. 1,709,523; Apr. 16.
- Anode. W. F. Massey. 1,717,239; June 11.
- Anode for chromium plating. F. M. Backet. 1,720,312-13; July 9.
- Anode for the electrolysis of copper solutions. F. Laist and F. F. Frick. 1,697,771; Jan. 1.
- Anode for X-ray tubes, Composite. C. T. Ulrey and L. F. Ehrke. 1,715,151; May 28.
- Anode of vacuum-electric-tube devices. E. Y. Robinson and E. J. E. Hubbard. 1,716,151; June 4.
- Antenna. A. Meissner. 1,708,515; Apr. 9.
- Antenna. F. M. Squire. 1,696,928; Jan. 1.
- Antenna and static modifier, Multisection. S. L. Long. 1,729,485; Sept. 24.
- Antenna array. J. S. Stone. 1,715,433; June 4.
- Antenna construction. M. Bernard. 1,712,023; May 7.
- Antenna construction. A. M. Stanley. 1,738,459; Dec. 3.
- Antenna, Directional. C. S. Franklin. 1,740,851; Dec. 24.
- Antenna for radio apparatus, Collapsible loop. H. E. Blaisdell. 1,721,101; July 16.
- Antenna loop. L. L. Jones. 1,712,215; May 7.
- Antenna mounting, Loop-. W. Sprague, jr. 1,720,154; July 9.
- Antenna, Phasing of. H. H. Beverage. 1,697,945; Jan. 8.
- Antenna, Sifting. J. Plebanski. 1,708,399; Apr. 9.
- Antenna system. G. A. Mathieu. 1,735,083; Nov. 12.
- Antenna system, Directional. A. Meissner. 1,740,950; Dec. 24.
- Antenna system, Directive. J. Plebanski. 1,708,400; Apr. 9.
- Antenna system for electric waves. W. Nauwerk and F. Walter. 1,697,133; Jan. 1.
- Antenna, Transmitting. O. von Bronk. 1,721,174; July 16.
- Anthraquinone nitriles and making the same. K. Schirmacher and L. van Zütphen. 1,728,216; Sept. 17.
- Anthraquinone series and making same, Condensation products of the. G. Kränzlein and M. Corell. 1,710,992; Apr. 30.
- Anthraquinones, Production of diphthaloyl. A. Lüttringhaus, H. Neresheimer, and H. J. Emmer. 1,706,493; Mar. 26.
- Antiaircraft projectile. N. D'Orsaneo. 1,737,833; Dec. 3.
- Antiaircraft screen. J. Peppin. 1,712,164; May 7.
- Anticorrosive material. M. Toch. 1,706,333; Mar. 19.
- Anticreep. H. G. Gillmor. Re17,314; June 4.
- Anticreep device. R. S. A. Dougherty and N. E. Salsich. 1,723,470; Aug. 6.
- Anticreeping device for rails. C. E. Skaggs. 1,698,417; Jan. 8.
- Antifreeze and fire-protecting device. W. J. O'Connor. 1,720,140; July 9.
- Antifreeze system for auto radiators, Automatic. S. L. Herzlich. 1,705,729; Mar. 19.
- Antifreezing composition. A. H. Osterlund. 1,711,324; Apr. 30.
- Antiglare apparatus. G. A. Brooks. 1,741,609; Dec. 31.
- Antiglare device. R. L. Lansing. 1,719,707; July 2.
- Antiglare device for headlights. F. Grosius. 1,703,668; Dec. 26.
- Antiglare shield. P. and E. M. Lacoste. 1,709,437; Apr. 16.
- Antigoring device for bulls. A. L. Jones. 1,705,220; Mar. 12.
- Antilocking spinner-blade clevis. R. C. Geer. 1,698,193; Jan. 8.
- Antimony compound, Complex. H. Hahl. 1,701,234; Feb. 5.
- Antimony compounds and making same, Complex. H. Hahl. 1,703,732; Feb. 26.
- Antioverflow device. M. Juhel. 1,719,433; July 2.
- Antioxidant or age resister. A. M. Clifford. 1,717,093; June 11.
- Antioxidant or age resister. A. M. Clifford. 1,739,480; Dec. 10.
- Antirattler and fastener for vehicle doors. W. F. Bennett. 1,734,555; Nov. 5.
- Antirattler and weatherstrip for windows, Combined. N. U. Paris, and A. J. Burkhardt. 1,722,941; July 30.
- Antiseptic anesthetic salts. E. H. Volwiler and D. L. Tabern. 1,708,712; Apr. 9.
- Antishimmying device. W. Moller. 1,738,147; Dec. 3.
- Antiskid armor for cushion-tire wheels. H. N. Shaw. 1,737,437; Nov. 26.
- Antiskid device. A. J. Bushemi. 1,708,353; Apr. 9.
- Antiskid device. J. R. Herbert. 1,733,963; Oct. 29.
- Antiskid device. T. E. Milles. 1,741,065; Dec. 24.
- Antiskid device. J. Schramm. 1,700,272; Jan. 29.
- Antiskid device. J. F. Stone. 1,722,065; July 23.
- Antiskid device for vehicle wheels. F. D. McGinley and W. K. Zinsmeister. 1,716,927; June 11.
- Antislipping attachment. T. D. Ryan. 1,709,686; Apr. 16.
- Antislipping device. A. R. Mitchell. 1,716,790; June 11.
- Antispin mechanism and rebound check. A. Vanderveld. 1,697,518; Jan. 1.
- Antisneak strip. W. C. Meyer. 1,721,706; July 23.
- Antisurge device. B. Jones. 1,722,469; July 30.
- Antiswiveling device for suspension hooks. B. S. Minor. 1,733,508; Oct. 29.
- Antitheft device. G. W. Elsey and F. H. Prescott. 1,722,327; July 30.
- Antitheft device. D. F. Pancoast. 1,730,526; Oct. 8.
- Antitheft device for use on motor vehicles and the like. C. J. Turner. 1,732,868; Oct. 22.
- Antitumb-sucking appliance. H. H. Beltz. 1,733,933; Oct. 29.
- Antitrack spreader. E. L. Criss. 1,730,807; Oct. 8.
- Antivibration device for automobiles. G. W. Bell. 1,717,000; June 11.
- Antivibratory device applicable to the steering wheels of vehicles. M. Houdaille. 1,699,192; Jan. 15.
- Anuscope. W. N. Allyn. 1,712,866; May 14.
- Apartment enlarger. H. E. Hodgson. 1,730,819; Oct. 8.
- Apartment, Pig. T. E. Booher. 1,721,942; July 23.
- Aphis-removing machine. J. E. Dudley, jr. 1,701,718; Feb. 12.
- Aphis-removing machine. J. E. Dudley, jr. 1,710,683; Apr. 30.
- Apparatus for carrying out table service mechanically. V. Marmonier. 1,717,235; June 11.
- Apparatus for catching burglars. R. Inglis. 1,732,270; Oct. 22.
- Apparatus for leak stoppers and the like. W. J. Wesseler. 1,702,031; Feb. 12.
- Apparatus for lowering material into and withdrawing material from wells. G. A. Humason. 1,697,599; Jan. 1.
- Apparatus for making coffee. E. J. Merkle. 1,713,170; June 18.
- Apparatus for making metal wool and shavings. R. I. Schonitzer. Re17,343; June 25.
- Apparatus for making test samples of silvers and the like. P. Latsch. 1,719,061; July 2.
- Apparatus for separating materials of different density such as coke from clinker, breeze, and the like. J. W. Hartley. 1,717,707; June 18.
- Apparel, Article of wearing. S. Zellenka. 1,719,579; July 2.
- Apparel garment. W. Kops. 1,707,810; Apr. 2.
- Apparel garment. W. Kops. 1,708,699; Apr. 9.
- Apparel garment. W. Kops. 1,729,426; Sept. 24.
- Apparel garment. S. Zweben. 1,708,713; Apr. 9.
- Apparel, Sanitary wearing. L. J. Rich. 1,741,881; Dec. 31.
- Apparel, Wearing. P. Hamberger. 1,713,433; May 14.
- Apparel, Wearing. N. Rothman. 1,725,306; Aug. 20.
- Apple feeding and paring machine. G. W. Gates. 1,711,051; Apr. 30.
- Apple-paring machine. J. W. Pease. Re17,307; May 28.
- Apple-paring machine. P. Secondo. 1,729,190; Sept. 24.
- Apppliance for brushing, dusting, and polishing floors. A. W. Saunders. 1,729,311; Sept. 24.
- Appliance for opening fiber bundles. R. Setzer. 1,740,439; Dec. 17.
- Applicator. T. A. Hart. 1,712,667; May 14.
- Applicator. A. T. Warren. 1,704,492; Mar. 5.
- Applicator and cleaner. F. V. Ralston. 1,715,387; June 4.
- Applicator and cleaner. F. V. Ralston. 1,717,891; June 18.
- Applicator and tank construction, Combination. G. F. Nitz and T. M. Murphy. 1,719,616; July 2.
- Applicator for conducting ultra-violet rays. D. E. Roberts. 1,733,239; Oct. 29.
- Applicator for medicaments. J. F. Cook. 1,711,341; Apr. 30.
- Applicator for vehicle brakes, Liquid. F. C. Likas. 1,707,987; Apr. 9.
- Applicator, Medicament. E. L. Foley. 1,737,454; Nov. 26.
- Appliqué fabric. M. Goldberg. 1,723,729; Aug. 6.
- Appliqué work and making the same, Hemstitched. M. Fixler. 1,741,620; Dec. 31.
- Applying and treating varnish, Method and apparatus for. E. L. Elliott. 1,702,043; Feb. 12.
- Applying coating material, Apparatus or tool for. W. B. Thompson. 1,706,006; Mar. 19.
- Applying coatings. F. H. Stevenson. 1,719,524; July 2.
- Applying liquids to animals, Device for. J. M. Kyle. 1,710,314; Apr. 23.
- Applying material to cores, Apparatus for. C. Martell and B. A. Hagen. 1,726,359; Aug. 27.
- Applying treads to tire casings. P. W. Lehman. 1,706,697; Mar. 26.
- Apron. J. R. Neeldans. Des. 79,840; Nov. 5.
- Apron, Barber's. O. Mason. 1,710,426; Apr. 23.
- Apron control. W. A. Kendrick. 1,713,700; May 21.
- Apron drier. L. Buck. 1,723,917; Aug. 6.
- Apron, Infant's sanitary. J. H. Hoover. 1,721,343; July 16.



- Apron, Stove. W. F. Rogers and J. C. Rogers. 1,698,564; Jan. 8.
- Aprons, Neck loop for. F. M. Steiner. 1,733,632; Oct. 29.
- Aquaplane. N. S. Harter. 1,736,156; Nov. 19.
- Aquarium and fernery stand, Combination. H. H. Downie. Des. 78,013; Mar. 19.
- Aquarium or similar article. A. von Frankenberg. 80,204; Dec. 24.
- Aqueous dispersion and making same. L. Kirschbraun. 1,733,497-8; Oct. 29.
- Aqueous dispersions and making same. L. Kirschbraun. 1,738,776; Dec. 10.
- Aqueous dispersions, Production of. L. Kirschbraun. 1,733,496; Oct. 29.
- Aqueous dispersions, Production of. L. Kirschbraun. 1,734,437; Nov. 5.
- Aqueous emulsion and making the same, Stable. C. A. Baun. 1,737,491; Nov. 26.
- Arbor. A. J. Alwill. 1,706,206; Mar. 19.
- Arbor. G. J. Hulbert. 1,738,145; Dec. 3.
- Arc device, Rectifying. J. J. Fitz Patrick and R. T. Cheeseman. 1,699,103; Jan. 15.
- Arc discharge apparatus, Electroionic. F. W. Meyer. 1,697,281; Jan. 1.
- Arc-gap device. H. B. Smith. 1,731,873; Oct. 15.
- Arc light. E. G. Ashcraft. 1,727,361; Sept. 10.
- Arc rectifier. P. M. G. Toulon. 1,733,679; Oct. 29.
- Arc welding. E. S. Goodspeed. 1,738,573; Dec. 10.
- Arc welding. F. M. Jeffs. 1,701,372; Feb. 5.
- Arc welding, Process of and apparatus for electric. J. Kjekstad. 1,712,114; May 7.
- Arch for furnaces and producing the same, Refractory. E. G. Bailey. 1,719,416; July 2.
- Arch hanger, Combustion-. L. M. Walsh. 1,718,671; June 25.
- Arch, Refractory curved. I. Harter and A. M. Kohler. 1,733,664; Oct. 29.
- Arch restorer. E. S. Snyder. 1,722,866; July 30.
- Arch support. J. Abramowitz. 1,700,462; Jan. 29.
- Arch support. H. P. Ambill. 1,702,531; Feb. 19.
- Arch support. L. S. Brown. 1,702,591; Feb. 19.
- Arch support. O. H. Fosmoe. 1,699,883; Jan. 22.
- Arch support. T. E. King. 1,707,525; Apr. 2.
- Arch support. A. Marshalek. 1,728,243; Sept. 17.
- Arch support. E. H. Rieke. 1,698,003; Jan. 8.
- Arch support and ankle-tipping corrector. W. M. Scholl. 1,716,740; June 11.
- Arch support and grip, Metatarsal. C. O. Johnson. 1,736,827; Nov. 26.
- Arch support and heel cushion, Combined. G. M. Schaff. 1,717,122; June 11.
- Arch support, Foot-. H. Elbert. 1,707,210; Mar. 26.
- Arch support, Foot-. C. E. Lacey. 1,702,012; Feb. 12.
- Arch support, Foot-. J. May. 1,701,269; Feb. 5.
- Arch support for shoes. J. M. Hiss. 1,714,670; May 28.
- Arch support, Orthopedic-shoe. H. Mansfield. 1,715,165; May 28.
- Arches of the feet, Appliance for reinforcing and restoring. W. M. Ludwig. 1,717,609; June 18.
- Arcing device, High-potential. N. A. Wahlberg. 1,709,697; Apr. 16.
- Argillaceous material and product resulting therefrom, Burning. S. J. Hayde. 1,707,395; Apr. 2.
- Arm rest. M. C. Balcer. 1,737,350; Nov. 26.
- Arm rest and prop, Combined. A. F. Bailly. 1,736,569; Nov. 19.
- Armature conductors, Forming. J. J. Carter. 1,721,810; July 23.
- Armature conductors, Method and machine for making. L. G. Hahn. 1,721,623; July 23.
- Armature construction. H. H. Wait. 1,741,262; Dec. 31.
- Armature-core-insulating machine. L. E. Poole. 1,720,923; July 16.
- Armature, Dynamo-electric-machine. W. Welsch. 1,742,112; Dec. 31.
- Armature of electromotors and generators. F. W. Lancaster. 1,724,290; Aug. 13.
- Armatures, Building. V. G. Apple. Re17,455; Oct. 15.
- Armatures, Making. V. G. Apple. 1,738,166; Dec. 3.
- Armchair. J. Forst. Des. 79,019-20; July 23.
- Armchair, Folding. G. I. Goldwyn. 1,703,879; Mar. 5.
- Armchair, Folding. J. Simmons. 1,727,255; Sept. 3.
- Armchair, Reclining. J. G. V. Astruc. 1,704,535; Mar. 5.
- Armchair, Surgical. P. Jáuregui. 1,721,221; July 16.
- Armhole construction for garments of light-weight materials, Reinforced. M. Blcher. 1,721,851; July 23.
- Armor. L. Wisbrod. 1,739,112; Dec. 10.
- Armor or tube forming machine. M. Nigro. 1,703,252; Feb. 26.
- Armor or tube forming machine. F. H. Sleeper. 1,703,250-1; Feb. 26.
- Armor safety sleeve. P. Carolan. 1,726,014; Aug. 27.
- Armored bag. S. Kramer. 1,706,387; Mar. 19.
- Arm rest. B. H. Payton. 1,715,862; June 4.
- Arm-rest device. C. J. Seils. 1,706,634; Mar. 26.
- Arm rest for automobile seats. C. A. Montage and S. Adgey. 1,719,716; July 2.
- Aromatic bases, Hydrogenation of. W. Lommel and T. Goost. 1,712,709; May 14.
- Aromatic mercaptans, Preparing. E. Hoffa and P. Jörg. 1,706,489; Mar. 26.
- Arrangement to protect capacitive loud-speakers against puncture. M. von Ardenne. 1,737,872; Dec. 3.
- Arranging articles, Apparatus for. H. C. Stearns. 1,737,438; Nov. 26.
- Arranging articles for stacking, Apparatus for. A. E. Burtchaeil. 1,737,042; Nov. 26.
- Arrestment. E. Uher, jr. 1,718,615; June 25.
- Arsenates, Making. C. D. Carpenter. 1,737,639; Dec. 3.
- Arsenic from ores, speiss, and other metallurgical products, Removing. E. Kirmse and W. Schopper. 1,718,825; June 25.
- Arsenic oxide, Direct production of. F. G. Hills. 1,713,127; May 14.
- Arseno compounds of the pyridine series and making them. A. Binz and C. Ráth. 1,702,334; Feb. 19.
- Article carrier, Auto pocket. F. W. Salley. 1,727,485; Sept. 10.
- Article, Composite. G. E. Christenson, jr. 1,730,804; Oct. 8.
- Article decorated by means of the wings of insects. E. H. Le Mout. 1,721,741; July 23.
- Article-feeding mechanism. J. P. Aldrich and H. A. Morris. 1,726,419; Aug. 27.
- Article-handling device. R. Jongedyk. 1,720,732; July 16.
- Article-handling machine. G. W. Campbell. 1,716,302; June 4.
- Article of manufacture. R. Coria. 1,718,333; June 25.
- Article of manufacture. F. W. Epperson. 1,709,168; Apr. 16.
- Article of manufacture. O. F. Freeman. 1,728,116; Sept. 10.
- Article of manufacture. W. H. Sommer. 1,737,867; Dec. 3.
- Article of manufacture and making same. W. P. Witherow. 1,710,526; Apr. 23.
- Article of manufacture made of waste cones. C. K. Dunlap. 1,716,215; June 4.
- Article of ornamentation and preparing same. M. Lindenberg. 1,730,665; Oct. 8.
- Article rest. C. N. Wolever. 1,729,531; Sept. 24.
- Article-shaping apparatus. B. Burvenick. 1,711,445; Apr. 30.
- Article strap, Carded-. G. D. Parker. 1,739,035; Dec. 10.
- Article surfaced with nitrocellulose and synthetic resin coatings and making same. C. Ellis. Re17,379; July 23.
- Articles for which a resistivity against the noxious effect of the aged state is required, Manufacturing. A. Fry. 1,729,378; Sept. 24.
- Articles from granular or plastic substances, Producing. K. G. W. Pettersson. 1,733,513; Oct. 29.
- Articles, Method of and apparatus for assembling. H. C. Stearns. 1,713,786; May 21.
- Articles with metal, Coating internally of hollow. G. Needle and F. W. Lanchester. 1,730,087; Oct. 1.
- Articulator. W. M. Gambill. 1,711,019; Apr. 30.
- Artificial-fruit bodies, Apparatus for and process of making stemmed. C. De Felice. 1,700,584; Jan. 29.
- Artificial material and making same. I. Lilienfeld. 1,722,928; July 30.
- Aryl thiazole compounds, Manufacture of. H. P. Roberts and H. A. Merkle. 1,712,968; May 14.
- Arylamines, Making. W. H. Williams and J. W. Britton. 1,726,172; Aug. 27.
- Arylaminoanthraquinones, Producing. K. Zahn and P. Ochwat. 1,699,419; Jan. 15.
- Aryl-azo-diaminopyridines useful as bactericides and making the same. I. Ostromislensky. Re17,281; Apr. 23.
- Asbestos, Making thick sheets of bonded. J. C. MacIldowie. 1,708,842; Apr. 9.
- Asbestos ore, Refining. F. A. Mett. 1,741,869; Dec. 31.
- Asbestos, Separating. T. Rose. 1,714,438; May 21.
- Aseptically storing and dispensing surgical napkins. F. L. Dailey. 1,730,126; Oct. 1.
- Ash-ejector tube. L. Blackmore. 1,707,752; Apr. 2.
- Ash gate. F. H. Dunbar. 1,732,576; Oct. 22.
- Ash, Manufacturing black. Z. de Horvath. 1,723,138; Aug. 6.
- Ash pan. W. C. Black. 1,731,811; Oct. 15.
- Ash pit, Portable concrete. T. H. Stevens. 1,714,195; May 21.
- Ash receiver. F. R. Belt. 1,730,753; Oct. 8.
- Ash receiver. E. F. Craft. Des. 78,730; June 18.
- Ash receiver. C. H. Cuno. 1,712,450; May 7.
- Ash receiver. C. Ellis. Re17,492; Nov. 19.
- Ash receiver. C. Ellis. 1,701,496; Feb. 12.
- Ash receiver. A. C. Scharff. Des. 77,985; Mar. 12.
- Ash receiver. F. E. Wakefield. 1,720,309; July 9.
- Ash receiver and cigarette and match holder, Combined. M. Cohen. Des. 80,108; Dec. 17.
- Ash receiver, Smoker's. J. S. Sherman. Des. 78,589; May 21.
- Ash receiver, Smoker's. J. S. Sherman. Des. 79,392; Sept. 10.
- Ash receiver, Tobacco. L. Ludwig. Des. 79,930; Nov. 19.
- Ash remover for producer gas generators. A. R. Pulver. 1,719,519; July 2.
- Ash remover for vehicles. H. P. Hue. 1,699,068; Jan. 15.
- Ash stand. L. J. Laroche. Des. 79,729; Oct. 29.
- Ash tray. O. F. Foss. Des. 78,704; June 11.
- Ash tray. H. Schwoerer. 1,722,252; July 23.
- Ash tray. A. von Frankenberg. Des. 78,421; Apr. 30.
- Ash tray and cigar extinguisher. R. C. Thomas. 1,709,330; Apr. 16.
- Ash tray and cigarette snuffer, Combination. O. C. Ritz Weller. 1,710,957; Apr. 30.
- Ash tray and lighter, Combined. L. Norrell. Des. 78,935; July 9.



- Ash tray, cigar holder, and drill, Combined. H. P. Ruf. Des. 78,406; Apr. 30.
- Ash tray or similar article. A von Frankenberg. Des. 78,993; July 16.
- Ash tray or similar article. D. B. West. Des. 78,242; Apr. 9.
- Asparagus cutter. S. E. Posey. 1,731,174; Oct. 8.
- Asphalt and concrete, Making elongated composite units of. A. P. Lundin. 1,729,172; Sept. 24.
- Asphalt emulsions, Making. A. L. Halvorsen and P. M. Travis. 1,714,982; May 28.
- Asphalt, Making. L. Kirschbraun. 1,735,503; Nov. 12.
- Asphalt masses of high elasticity, Making infusible. R. Lichtenstern. 1,720,487; July 9.
- Asphalt-mixing plant. F. H. Flory. 1,727,340; Sept. 10.
- Asphalt-paving composition. J. S. Downard. 1,727,231; Sept. 3.
- Asphalt plates, Applying or laying. F. C. J. DeBoth. 1,726,215; Aug. 27.
- Asphaltic products, Making. L. Kirschbraun. 1,715,069; May 28.
- Aspirating device. H. S. Earnest. 1,712,425; May 7.
- Aspirator installation. L. F. Whitney. 1,710,910; Apr. 30.
- Assembling and packaging articles, Method and machine for. L. E. La Bombard and M. H. Sidebotham. 1,717,696; June 18.
- Assembling apparatus. C. H. Franks and G. L. Rock. 1,697,860; Jan. 8.
- Assembling articles for treatment, Process and apparatus for. F. G. Furinton. 1,711,250; Apr. 30.
- Assembling articles, Method of and apparatus for. H. C. Stearns. 1,713,788; May 21.
- Assembling device. C. L'Enfant. 1,739,762; Dec. 17.
- Assembling insulators, Method of and apparatus for. S. L. Moore, Jr. 1,719,989; July 9.
- Assembling machine for mints or the like. B. Radtke. 1,709,189; Apr. 16.
- Assembling machine, Link-mat. H. W. Hollenbeck. 1,716,378; June 11.
- Assembling vehicle spoked wheels, Apparatus for. J. E. Batie. 1,721,895; July 23.
- Assembly and installation of turntables. G. W. Bowen. 1,732,551; Oct. 22.
- Assembly, Finish-strip. H. G. Kellogg. 1,720,904; July 16.
- Assembly, Portable rotary. H. M. Rinehart. 1,712,846; May 14.
- Assembly, Rotating. L. B. Jones, E. W. Jones, and R. G. Battin. 1,722,800; July 30.
- Assembly, Waste-fitting. F. G. Brotz. 1,704,529; Mar. 5.
- Assorting and delivering mechanism. A. Zimmewicz. 1,700,869; Feb. 5.
- Assorting apparatus. R. F. Knight. 1,713,536; May 21.
- Assorting device, Parcel. J. R. Sousa. 1,718,087; June 18.
- Assorting mechanism for fare boxes, Coin. F. G. Murray. 1,718,829; June 25.
- Astronomical device, Educational. D. Phillips. 1,719,723; July 2.
- Asymmetric cell. W. E. Holland. 1,707,857; Apr. 2.
- Asynchronous machine with condensers. E. Rother. 1,715,866; June 4.
- Asynchronous motor, Compensated. F. Kade. 1,703,533; Feb. 26.
- Athletic protective device. H. Goldsmith. 1,740,171; Dec. 17.
- Athletic standard. B. J. Craig. 1,737,108; Nov. 26.
- Atomizer. M. Cuel. 1,737,299; Nov. 26.
- Atomizer. T. A. De Vilbiss. Des. 77,466; Jan. 15.
- Atomizer. T. A. De Vilbiss. Des. 77,752-3; Feb. 19.
- Atomizer. T. A. De Vilbiss. 1,736,393; Nov. 19.
- Atomizer. P. Dubray. 1,701,032; Feb. 5.
- Atomizer. B. L. Engelke. 1,731,924; Oct. 15.
- Atomizer. T. J. Holmes. 1,732,513; Oct. 22.
- Atomizer. O. Kay. 1,733,413; Oct. 29.
- Atomizer. M.-L. Lemoine. 1,714,129; May 21.
- Atomizer. C. L. Marcus. 1,722,011; July 23.
- Atomizer. S. E. Norton and J. P. Shevlin. Des. 78,936; July 9.
- Atomizer. A. Nyrop. 1,710,734; Apr. 30.
- Atomizer. A. J. Shaubis. 1,740,373; Dec. 17.
- Atomizer. N. Weidner. 1,737,442; Nov. 26.
- Atomizer for liquid fuel. F. Egersdörfer. 1,725,066; Aug. 20.
- Atomizer, Fuel. L. I. Aldrich. 1,731,806; Oct. 15.
- Atomizer holder. G. M. Minton, Jr. Des. 77,560; Jan. 22.
- Atomizer, Liquid. H. Thomas. 1,725,381; Aug. 20.
- Atomizer or similar device. L. V. Aronson. Des. 79,006-7; July 23.
- Atomizer, Perfume. S. E. Norton and J. P. Shevlin. Des. 79,380-1; Sept. 10.
- Atomizer support or similar article. A. F. Ruffin and A. L. Weckler. Des. 79,808; Aug. 27.
- Atomizer top. T. A. De Vilbiss. Des. 77,437-71; Jan. 15.
- Atomizer top. T. A. De Vilbiss. Des. 77,752-3; Feb. 19.
- Atomizing and spraying, Apparatus for. E. F. Chandler. 1,713,259; May 14.
- Atomizing burner, Rotary. H. G. Klemm. 1,697,279; Jan. 1.
- Atomizing device. R. B. Paull. Re17,495; Nov. 19.
- Atomizing device for pulverulent material. E. Greiser. 1,736,969; Nov. 26.
- Atomizing device, Liquid-fuel. L. I. Aldrich. 1,698,422; Jan. 8.
- Atomizing device, Oil. C. M. Koplin. 1,702,784; Feb. 19.
- Attaching clip. R. A. Fritsch. 1,720,471; July 9.
- Attaching means. G. W. Goodridge. 1,711,383; Apr. 30.
- Attaching means. A. Schroeder. 1,737,028; Nov. 26.
- Attaching means for articles. C. G. King. 1,737,375; Nov. 26.
- Attaching out cards to files or folders, Means of. M. A. Clark. 1,730,644; Oct. 8.
- Attachment. R. E. Oversmith. 1,710,837; Apr. 30.
- Attachment for automobiles. A. N. Burckhart. 1,698,084; Jan. 8.
- Attachment for bank vaults, Safety. L. K. Mateffy. 1,710,546; Apr. 23.
- Attachment for butchers' meat blocks. A. T. Reed. 1,718,075; June 18.
- Attachment for laterally-swinging awning arms. J. R. Summers. 1,717,898; June 18.
- Attachment for wire rope and testing same. R. W. Scott. 1,723,816; Aug. 6.
- Attachment for writing instruments. G. H. Nordrum. 1,718,831; June 25.
- Attrition mill. E. M. Brennan and A. P. Daniel. 1,737,183; Nov. 26.
- Attrition mill. J. G. Bryant. 1,698,838; Jan. 15.
- Attrition mill. R. S. Mechlin. 1,723,055; Aug. 6.
- Attrition mill. A. Schuchardt. 1,724,318; Aug. 13.
- Audio amplification apparatus for various sounds. W. J. Friend. 1,697,500; Jan. 1.
- Audio frequency amplification, Arrangement for. W. Schaffer. 1,732,031; Oct. 15.
- Audiometer, Unstepped frequency. H. R. McDermott. 1,697,076; Jan. 1.
- Audio tube. W. J. Albersheim. 1,736,815; Nov. 26.
- Audio tube, Evacuating. E. A. Lederer. 1,699,597; Jan. 22.
- Audiphone. C. Fensky. 1,717,880; June 18.
- Auditing machine. M. M. Goldberg. 1,710,053; Apr. 23.
- Auditorium. E. Milkutat. 1,737,666; Dec. 3.
- Auger. T. S. Hallett. 1,719,546; July 2.
- Auger stems, bits, and substitutes, Making spiral. M. J. Kearns. 1,711,231; Apr. 30.
- Auto body ventilator, Closed. H. T. Collard. 1,704,557; Mar. 5.
- Auto busses, trucks, etc., Torque system for four-wheel drives for. T. S. Kemble. 1,728,890; Sept. 17.
- Auto cleaner, Interior. L. F. Beaulieu. 1,722,265; July 30.
- Auto, Commercial. J. V. Martin. 1,712,151; May 7.
- Auto heater. B. D. McIntyre. 1,725,878; Aug. 27.
- Auto lock, Combination. W. L. Dewey. 1,709,525; Apr. 16.
- Auto rim adjuster. C. A. Hornburg. 1,702,474; Feb. 19.
- Auto screen. B. G. Turner. 1,741,890; Dec. 31.
- Auto screen. W. I. Wellman and J. M. Dunn. 1,701,024; Feb. 5.
- Auto seat, Quick-adjusting. I. M. Nuss. 1,722,939; July 30.
- Auto signal. A. Lee. 1,723,429; Aug. 6.
- Auto signal. G. Myers. 1,717,934; June 18.
- Auto signal. W. Riefschneider. 1,712,844; May 14.
- Auto signal, Automatic. W. H. Anderson. 1,702,290; Feb. 19.
- Autodyne receiver circuits, Balanced bridge for. W. Runge. 1,717,627; June 18.
- Autographic machine. M. Mée. 1,732,104; Oct. 15.
- Autographic punching register. L. W. Langford. 1,705,091; Mar. 12.
- Autographic register. R. E. Asbury and R. A. Kennedy. 1,705,148; Mar. 12.
- Autographic register. L. F. Hagemann. 1,735,858; Nov. 19.
- Autographic register. L. F. Hagemann and W. Greig. 1,735,857; Nov. 19.
- Autographic register. P. A. Jackson. 1,701,005; Feb. 5.
- Autographic register. L. Jensen and C. L. Winter. 1,725,586; Aug. 20.
- Autographic register. M. MacDonald. 1,703,677; Feb. 26.
- Autographic register. G. J. Neth. 1,699,708; Jan. 22.
- Autographic register. G. J. Neth. 1,716,560; June 11.
- Autographic register. G. J. Neth. 1,722,477; July 30.
- Autographic register. F. E. Pfeiffer. 1,696,970; Jan. 1.
- Autographic register. W. J. Wiswall. 1,724,120; Aug. 13.
- Automatic brake. W. E. Hale. 1,715,003; May 28.
- Automatic clamp. A. I. Schiff. 1,736,290; Nov. 19.
- Automatic die. J. Hartness. 1,704,741; Mar. 12.
- Automatic gate. E. Jasbrink. 1,725,354; Aug. 20.
- Automatic lock. T. L. Swearingen. 1,719,678; July 2.
- Automatic lubricator. C. W. Courcier. 1,731,159; Oct. 8.
- Automatic lubricator. A. Kirchhofer. 1,733,157; Oct. 29.
- Automatic lubricator, Continuous. R. Reyes, C. E. Paul, and A. de Vecchi. 1,721,412; July 16.
- Automatic shears. J. M. Cohen. 1,710,347; Apr. 23.
- Automatic sprinkler. A. J. Loepsinger. 1,700,591; Jan. 29.
- Automatic station. G. F. Jones. 1,735,116; Nov. 12.
- Automatic station. M. E. Reagan. 1,729,455; Sept. 24.
- Automatic stop. H. E. Millingar and T. T. Pope. 1,725,469; Aug. 20.
- Automatic switch. E. C. Blum. 1,735,845; Nov. 19.
- Automatic switch. C. H. Hodgkins and C. M. Moss. 1,700,890; Feb. 5.
- Automatic switch. J. E. Huey. 1,735,761; Nov. 12.
- Automatic switch. J. Nixon. 1,715,143; May 28.
- Automatic switch. H. F. Obergfell. 1,720,342; July 9.
- Automatic switch. P. B. Parks and D. W. Miller. 1,701,761; Feb. 12.



- Automatic switch. A. S. Riggs. 1,718,379; June 25.  
Automatic ventilator. D. A. McQuistan. 1,737,054; Nov. 26.  
Automobile accelerator-regulating device. F. H. Kampman. 1,704,505; Mar. 5.  
Automobile accessory. J. Bindon. 1,705,710; Mar. 19.  
Automobile accessory. C. D. Parsons. 1,701,696; Feb. 12.  
Automobile accessory. F. G. Stuckless. 1,726,004; Aug. 27.  
Automobile attachment. H. S. Gillrup. 1,719,051; July 2.  
Automobile attachment. W. O. B. Moore. 1,706,495; Mar. 26.  
Automobile attachment. T. G. Penn. 1,711,325; Apr. 30.  
Automobile body. G. Berman. Des. 77,635; Feb. 5.  
Automobile body. R. H. Dietrich. Des. 78,453; May 7.  
Automobile body. M. R. Hull. 1,720,790; July 16.  
Automobile body. M. R. Hull. 1,731,495; Oct. 15.  
Automobile body. M. H. Kashian. 1,715,928; June 4.  
Automobile body. L. W. Kilgour. Des. 80,034; Dec. 3.  
Automobile body. J. Ledwinka. 1,703,114; Feb. 26.  
Automobile body. S. N. Reger. Des. 79,049; July 23.  
Automobile body. F. Rukavina. Des. 79,167; Aug. 6.  
Automobile body. M. H. Toncray. 1,714,252; May 21.  
Automobile body and hood, Combined. J. Boulard. Des. 77,460; Jan. 15.  
Automobile body and hood, Combined. D. B. Lee. Des. 79,032; July 23.  
Automobile body construction. C. McCulley and L. E. Ruehlmann. 1,703,118; Feb. 26.  
Automobile body for invalids. W. Barclay. 1,717,303; June 11.  
Automobile body front unit. R. S. Roberts and C. E. Wexelberg. Des. 78,655; May 28.  
Automobile body, hood, and fenders, Combined. R. G. F. Loewy. Des. 79,147; Aug. 6.  
Automobile body, hood, and radiator, Combination. W. Morton. Des. 79,563; Oct. 8.  
Automobile body, Sectional. F. I. Barrows. 1,714,472; May 21.  
Automobile body, Transformable-type. H. D. Geyer. 1,720,953; July 16.  
Automobile brake. J. Butler. 1,726,422; Aug. 27.  
Automobile brake. E. F. Kelley. 1,727,717; Sept. 10.  
Automobile brake. P. H. McNelles. 1,711,321; Apr. 30.  
Automobile bumper or similar article. J. P. Giuliana. Des. 78,461; May 7.  
Automobile closed-body construction. H. J. Woodall and M. S. Randall. 1,740,489; Dec. 24.  
Automobile chair, Child's. R. C. Sturges. 1,723,899; Aug. 6.  
Automobile construction. L. O. Martin. 1,697,198; Jan. 1.  
Automobile construction. G. F. Nicholas. 1,715,379; June 4.  
Automobile construction. C. R. Paton. 1,703,592; Feb. 26.  
Automobile construction. C. R. Paton. 1,727,409; Sept. 10.  
Automobile control. L. E. Russell. 1,733,979; Oct. 29.  
Automobile control. L. E. Russell and G. E. Peters. 1,733,978; Oct. 29.  
Automobile control mechanism. P. G. Peik. 1,736,089; Nov. 19.  
Automobile decking. H. S. McClellan. 1,720,634; July 9.  
Automobile dressing room. W. C. Lundstrom. 1,741,424; Dec. 31.  
Automobile driving mechanism. J. J. Rebman. 1,729,896; Oct. 1.  
Automobile driving transmission. H. B. Philips. 1,713,712; May 21.  
Automobile elevator. C. B. Harris. 1,718,144; June 18.  
Automobile extractor. J. Goebel. 1,720,396; July 9.  
Automobile fender. A. Bricuglio. 1,716,106; June 4.  
Automobile fender. S. Rubin. 1,713,484; May 14.  
Automobile fender. J. V. Whitbeck. Des. 79,218; Aug. 13.  
Automobile heater. F. J. Andel. 1,726,531; Sept. 3.  
Automobile heater. C. B. Lear. 1,705,576; Mar. 19.  
Automobile heater. B. D. McIntyre. 1,732,103; Oct. 15.  
Automobile heater. S. A. Snell. 1,733,759; Oct. 29.  
Automobile heater. J. J. Sunday. 1,723,312; Aug. 6.  
Automobile holddown. E. S. Evans. 1,711,089; Apr. 30.  
Automobile hood. L. C. Hill. Des. 79,133; Aug. 6.  
Automobile hood eaves. R. L. Zedekar. 1,722,878; July 30.  
Automobile hood lock. G. E. Sauer and O. Lutz. 1,727,789; Sept. 10.  
Automobile identification. A. B. Hulsebos. 1,707,723; Apr. 2.  
Automobile instructor, Mechanical. M. J. McKenna. 1,723,744; Aug. 6.  
Automobile jack. T. R. Brumfield and P. L. Hines. 1,713,465; May 14.  
Automobile jack. M. J. Hatfield and E. W. Crabbe. 1,711,565; May 7.  
Automobile jack. H. H. Merriman. 1,714,464; May 21.  
Automobile jack. H. Seldomridge. 1,725,216; Aug. 20.  
Automobile jack. G. G. Smith and G. G. Stoup. 1,741,343; Dec. 31.  
Automobile lift. V. Edler. 1,719,538; July 2.  
Automobile lift. J. Manny. 1,718,657; June 25.  
Automobile lifter. A. W. Fitz. 1,714,554; May 28.  
Automobile light. F. Bach. 1,738,092; Dec. 3.  
Automobile light. C. F. O'Neill. 1,714,317; May 21.  
Automobile light. J. Weiss. Des. 77,929; Mar. 5.  
Automobile light. R. G. Wilfert. 1,706,685; Mar. 26.  
Automobile lock. L. Cooper. 1,730,060; Oct. 1.  
Automobile lock. J. De Seguirant. 1,706,352; Mar. 19.  
Automobile lock. E. K. Fought and E. G. Whitney. 1,719,539; July 2.  
Automobile lock. O. S. Hershey. 1,732,749; Oct. 22.  
Automobile lock. B. Sahl. 1,704,842; Mar. 12.  
Automobile lock. E. J. Van Sickle. 1,730,396; Oct. 8.  
Automobile lifting jack. J. H. C. Murdoch. 1,701,242; Feb. 5.  
Automobile mechanism. T. A. McIntyre. 1,719,274; July 2.  
Automobile molding. H. V. Henderson. Des. 80,174-5; Dec. 24.  
Automobile pit, Multiple. H. A. Mugler. 1,722,818; Aug. 30.  
Automobile rack. M. W. Hard. 1,730,610; Oct. 8.  
Automobile radiator, hood, and cowl, Combined. A. Vlk. Des. 79,217; Aug. 13.  
Automobile safety apparatus. S. Rubin. 1,713,483; May 14.  
Automobile safety fender. G. Pagano. 1,710,892; Apr. 30.  
Automobile screen. C. Heumader. 1,722,917; July 30.  
Automobile screen. O. M. Webber. 1,704,157; Mar. 5.  
Automobile seat. J. R. and A. M. Cravath. 1,711,476; Apr. 30.  
Automobile seat. R. C. Travis. 1,739,741; Dec. 17.  
Automobile seat, Adjustable. R. W. Chilson, E. L. Bacon, and R. E. Luikart. 1,700,308; Jan. 29.  
Automobile seat, Slidable. C. A. Hamsing. 1,718,042; June 18.  
Automobile side-bar head. W. A. Starck. 1,723,664; Aug. 6.  
Automobile signal. G. Alexander. 1,730,027; Oct. 1.  
Automobile signal. F. L. Baker. 1,719,828; July 9.  
Automobile signal. C. D. Brown. 1,706,479; Mar. 26.  
Automobile signal. W. O. Casazza. 1,698,671; Jan. 8.  
Automobile signal. A. P. Gustafson. Des. 79,075; July 30.  
Automobile signal. A. P. Gustafson. 1,720,834; July 16.  
Automobile signal. R. C. Harbord. 1,702,566; Feb. 19.  
Automobile signal. F. C. Hughes. 1,732,234; Oct. 22.  
Automobile signal. C. P. Kavaney. 1,728,208; Sept. 17.  
Automobile signal. F. L. Marsh. 1,726,961; Sept. 3.  
Automobile signal. B. Mayer. 1,726,443; Aug. 27.  
Automobile signal. F. Novotney. 1,702,017; Feb. 12.  
Automobile signal. R. F. Ordway. 1,737,336; Nov. 26.  
Automobile signal. E. P. Rullmann. 1,730,901; Oct. 8.  
Automobile signal. R. J. Simons. 1,727,256; Sept. 3.  
Automobile signal. W. U. Stonehill. 1,713,305; May 14.  
Automobile signal. C. H. Turner. 1,729,301; Sept. 24.  
Automobile signal. D. D. Van Osdel. 1,720,108; July 9.  
Automobile signal. H. White, jr. 1,706,269; Mar. 19.  
Automobile signal housing. J. H. Powers. Des. 80,049; Dec. 3.  
Automobile spring. C. E. C. Edey. 1,702,030; Feb. 12.  
Automobile steering-post attachment. P. N. Sea. 1,717,069; June 11.  
Automobile supply tank and holder. E. S. Johnson. Re-17,204; Feb. 5.  
Automobile table. S. H. Sleeper. 1,721,190; July 16.  
Automobile tag. C. T. Meyer. Des. 77,621; Jan. 29.  
Automobile top. T. Lind. Des. 80,181; Dec. 24.  
Automobile top. N. A. Olund. 1,697,471; Jan. 1.  
Automobile top. J. E. Schaefer. Des. 77,790; Feb. 19.  
Automobile top, Tackless. G. Olguin. 1,709,367; Apr. 16.  
Automobile traction device. E. K. Baker. 1,738,682; Dec. 10.  
Automobile transmission. H. B. Philips. 1,713,713; May 21.  
Automobile turning signal. B. H. Alsop. 1,734,512; Nov. 5.  
Automobile turntable. E. A. Dillon. 1,718,810; June 25.  
Automobile ventilator. H. T. Lovell. 1,733,025; Oct. 22.  
Automobile washer. J. G. Dragelin. 1,715,907; June 4.  
Automobile wheel. E. K. Baker. 1,721,725; July 23.  
Automobile wheel. E. K. Baker. 1,730,872; Oct. 8.  
Automobile wheel and holding it in its raised position, Device for raising an. A. E. Ericson and A. C. Thyberg. 1,706,919; Mar. 26.  
Automobile wheel, Non-skidding. A. L. M. Pirrone. 1,715,145; May 28.  
Automobiles and the like, Attachment for. V. C. Porter. 1,721,832; July 23.  
Automobiles, Antidrift attachment for. R. F. Reich. 1,736,837; Nov. 26.  
Automobiles, Attachment for. R. H. Freitag. 1,727,199; Sept. 3.  
Automobiles, Combination passenger and truck body for. H. Puscas. 1,715,075; May 28.  
Automobiles, Electrically-controlled, sanding device for. M. Skolnik and B. G. Heller. 1,734,277; Nov. 5.  
Automobiles, Front-wheel steer and drive unit for. C. M. Marsh. 1,724,673; Aug. 13.  
Automobiles, Fuel-controlling means for. A. M. Malluk. 1,727,473; Sept. 10.  
Automobiles in freight cars, Device for holding. G. C. Fedderman. 1,739,829; Dec. 17.  
Automobiles, Instrument board for. F. I. du Point. 1,739,954; Dec. 17.  
Automobiles, Jack attachment for. F. T. Roberts, jr. 1,697,694; Jan. 1.  
Automobiles, Runner attachment for. S. H. Olson. 1,733,313; Oct. 29.  
Automobiles, Safety device for. H. V. G. Stocker. 1,741,484; Dec. 31.



- Automobiles, Sanding device for. M. Skolnik and B. Heller. 1,734,276; Nov. 5.
- Automobiles, Siphon circulating system for. S. Kaye. 1,735,613; Nov. 12.
- Automobiles, Washbasin equipment for. J. M. Gilbert and M. E. Brookshire. 1,731,567; Oct. 15.
- Automobiles, Whirligig device for. T. W. Power. 1,728,079; Sept. 10.
- Automotive appliance. A. H. Radke. 1,703,780; Feb. 26.
- Automotive brake. J. R. Bartholomew. 1,739,496; Dec. 17.
- Automotive brake. G. W. Carlson. 1,715,340; May 28.
- Automotive brake. G. W. Carlson. 1,724,452; Aug. 13.
- Automotive brake. S. G. Down. 1,707,258; Apr. 2.
- Automotive brake. S. G. Down. 1,723,141; Aug. 6.
- Automotive brake. F. P. Livingston. 1,707,272; Apr. 2.
- Aviation motor. H. Junkers. 1,729,042; Sept. 24.
- Awning. C. W. Bereth. 1,712,021; May 7.
- Awning. G. R. Hall. 1,740,400; Dec. 17.
- Awning. O. G. Herm. 1,715,756; June 4.
- Awning. E. W. and G. E. Klos. 1,726,355; Aug. 27.
- Awning. R. Lewis. 1,724,606; Aug. 13.
- Awning. C. H. Lloyd. 1,727,473; Sept. 10.
- Awning. R. S. Muller. 1,699,670; Jan. 22.
- Awning. R. S. Muller. 1,702,664; Feb. 19.
- Awning. N. H. Nelson. 1,701,793; Feb. 12.
- Awning. N. H. Nelson. 1,719,303; July 2.
- Awning. A. D. Sears. 1,716,386; June 11.
- Awning. K. N. Watkins and S. O. Clements. 1,700,555; Jan. 29.
- Awning-actuating mechanism. E. Martin. 1,740,190; Dec. 17.
- Awning adjuster, Crank. G. B. Bartlett. 1,701,221; Feb. 5.
- Awning and foldable frame, Automobile. A. F. Gillet. 1,717,922; June 18.
- Awning and shutter, Combined window. H. S. Hill. 1,740,593; Dec. 24.
- Awning arm. C. H. Dietz. Des. 77,820; Feb. 26.
- Awning arm. J. Padavic. 1,736,936; Nov. 26.
- Awning arm. J. C. Uckotter. 1,732,489; Oct. 22.
- Awning arm, Adjustable. O. E. Pease and N. G. Joseph. 1,705,266; Mar. 12.
- Awning attachment. W. E. Shaw. 1,736,634; Nov. 19.
- Awning, Automobile. W. A. Bracken. 1,703,717; Feb. 26.
- Awning, Automobile. W. A. Bracken. 1,707,110; Mar. 26.
- Awning, Automobile. W. A. Bracken. 1,715,275; May 23.
- Awning, Automobile. E. E. McGrew. 1,731,634; Oct. 15.
- Awning, Automobile. G. A. Roth. 1,741,262; Dec. 31.
- Awning, Automobile door. F. Downing. 1,702,818; Feb. 19.
- Awning, Automobile window. C. E. Hendrix. 1,709,574; Apr. 16.
- Awning bracket. L. J. Mowry. 1,699,246; Jan. 15.
- Awning bracket, Automobile. J. L. Peebles. 1,739,518; Dec. 17.
- Awning-controlling mechanism. T. P. Connolly. 1,712,455; May 7.
- Awning cord guide for window screens. J. Schwarzkopf. 1,709,883; Apr. 23.
- Awning fixture. G. C. Campi. 1,713,993; May 21.
- Awning for auto door windows. J. M. Ralston and B. F. Davenport. 1,723,707; Aug. 6.
- Awning for automobile doors. G. V. Blackford. Re17,382; July 30.
- Awning for automobile doors. G. V. Blackford. 1,703,054; Feb. 19.
- Awning hanger. J. A. Duthie. 1,735,314; Nov. 12.
- Awning, Metal. H. D. Cloud and W. M. Ingram. 1,710,449; Apr. 23.
- Awning, Metallic. W. J. Dunsworth. 1,696,940; Jan. 1.
- Awning operator. J. W. Price. 1,719,850; July 9.
- Awning structure. W. G. Dunn. 1,722,564; July 30.
- Awning structure. O. L. Moeller. 1,730,085; Oct. 1.
- Awning, Ventilating. C. L. Dabney. 1,729,928; Oct. 1.
- Awning, Window. J. Huber and M. Rosentreter. 1,734,381; Nov. 5.
- Awnings and making the same, Hood or shield for. J. C. Truemper. 1,727,528; Sept. 10.
- Awnings, Combination head rod and pulley fixture for. H. Etkins. 1,735,382; Nov. 12.
- Ax. W. O. Smith. 1,731,874; Oct. 15.
- Ax and pick machine. J. Lucas. 1,708,391; Apr. 9.
- Axe, Felling. J. Sells. 1,729,365; Sept. 24.
- Axe. E. Wildhaber. 1,739,196; Dec. 10.
- Axe assembly. E. W. Seaholm. 1,697,784; Jan. 1.
- Axe assembly, Front. J. A. Wright. 1,706,556; Mar. 26.
- Axe assembly, Front. J. A. Wright. 1,711,216; Apr. 30.
- Axe assembly, Front. J. A. Wright. 1,716,717; June 11.
- Axe assembly, Front. J. A. Wright. 1,735,708; Nov. 12.
- Axe assembly, Rear. A. Taub. 1,721,535; July 23.
- Axe assembly, Rear. J. A. Wright. 1,708,248; Apr. 9.
- Axe assembly, Rear. J. A. Wright. 1,712,540; May 14.
- Axe assembly, Rear. J. A. Wright. 1,731,962; Oct. 15.
- Axe assembly, Rear. J. A. Wright. 1,733,042; Oct. 22.
- Axe assembly, Rear. J. A. Wright. 1,741,550; Dec. 31.
- Axe blank. W. P. Witherow. 1,722,123; July 23.
- Axe box. C. P. Vauchlain and F. E. Merklinger. 1,741,260; Dec. 31.
- Axe boxes, Bush for. G. Eveno. 1,722,179; July 23.
- Axe, Coaster-wagon rear. A. C. Carlson. 1,741,142; Dec. 31.
- Axe construction, Differential. W. F. Rockwell. 1,730,900; Oct. 8.
- Axe construction for automobiles, Rear. T. S. Kemble. 1,728,889; Sept. 17.
- Axe construction, Roller-bearing. T. V. Buckwalter. 1,700,307; Jan. 29.
- Axe, Divided. F. Wilson, sr. 1,732,825; Oct. 22.
- Axe, Drive. A. G. Rayburn. 1,736,836; Nov. 26.
- Axe, Drive. J. W. Sumner and A. G. Rayburn. 1,712,057; May 7.
- Axe drive, Dual rear. A. D. Robbins. 1,711,128; Apr. 30.
- Axe for motor vehicles. E. C. Mogtord. 1,702,516; Feb. 19.
- Axe for six-wheel trucks, Rear. T. S. Kemble. 1,728,891; Sept. 17.
- Axe having driving wheels, Live. P. H. Mistral. 1,712,155; May 7.
- Axe housings, Forming. A. L. Lambert. 1,715,135; May 28.
- Axe mount, Stub. W. H. Moss. 1,704,140; Mar. 5.
- Axe of road vehicles, Device to control the front. F. H. Royce. 1,716,836; June 11.
- Axe press. W. W. Dimmick. 1,739,891; Dec. 17.
- Axe press. G. W. Prather. 1,735,128; Nov. 12.
- Axe, Steering. W. M. Jones, jr. 1,733,583; Dec. 10.
- Axe straightener. J. H. Parmer. 1,720,183; July 9.
- Axe, Vehicle. W. Gatter. 1,722,206; July 23.
- Axe, Vehicle. R. S. Sanford. 1,705,785; Mar. 19.
- Axes and similar forgings, Process of and apparatus for producing pressed railway-car. F. Lützenkirchen. 1,738,593; Dec. 10.
- Axes, Coupling of locomotive. E. Brillié. 1,724,991; Aug. 20.
- Axes, Double reduction compensating through drive. A. I. Marcum. 1,728,869; Sept. 17.
- Axes, Forging. F. H. Moyer. 1,736,321; Nov. 19.
- Axes, Making tubular frame. G. H. Hufford and M. P. Graham. 1,721,695; July 23.
- Axes, Reclaiming car. J. R. Blakeslee. 1,739,119; Dec. 10.
- Axes, Reclaiming railway-car. W. B. Martin. 1,739,248; Dec. 10.
- Axminster setting frame. G. Crossland. 1,741,828; Dec. 31.
- Axminster weave. W. W. Robertson. 1,739,181; Dec. 10.
- Azodyestuffs and making same. L. Laska, F. Krecke, and F. Weber. 1,709,989; Apr. 23.
- Azodyestuffs and making same. A. L. Laska and A. Zitscher. Re17,306; May 28.
- Azodyestuffs for dyeing cellulose esters, Manufacture of. O. Knecht. 1,711,390; Apr. 30.
- Azo dyestuffs on silk, Production of. K. Woetzel and H. Lint. 1,727,920; Sept. 10.
- Babbling-engine crank-shaft bearings, Device for. H. C. Shoemaker. 1,710,952; Apr. 30.
- Babbling jig. R. A. Johnson. 1,728,971; Sept. 24.
- Backband. W. P. Gideon. 1,737,307; Nov. 26.
- Backboard. E. J. Gross. 1,736,879; Nov. 26.
- Back cushion. M. Stubnitz. 1,729,560; Sept. 24.
- Back for automobile seats. E. Lasher. 1,703,310; Feb. 26.
- Backing for interchangeable teeth. F. C. Montuori. 1,722,334; July 30.
- Backing mirrors and similar articles, Machine for. F. R. Michael. 1,717,113; June 11.
- Back-rest arrangement. P. W. Olson. 1,734,180; Nov. 5.
- Back-rest construction. P. W. Olson. 1,734,179; Nov. 5.
- Back rest for bathtubs. M. Stern. 1,740,791; Dec. 24.
- Back rest for invalid beds. C. E. Patterson. 1,708,236; Apr. 9.
- Backstop for motor vehicles, Automatic. P. L. Lacy. 1,717,232; June 11.
- Back washer. A. A. Sanders. 1,730,299; Oct. 1.
- Backs for friction blocks, Manufacture of reticulated. J. S. Thompson. 1,727,184; Sept. 3.
- Bacon hanger. W. Wetts, sr. 1,732,960; Oct. 22.
- Bacon-skinning machine. F. J. Englen and J. F. Geiler. 1,714,355; May 21.
- Bacon slabs, Preparing. I. D. Block. 1,731,648; Oct. 15.
- Bacteria in liquids, Apparatus for and process of detecting and segregating. R. B. Shemitz and H. F. Wechsler. 1,738,801; Dec. 10.
- Badge. H. P. Fest. 1,725,262; Aug. 20.
- Badge. W. H. Kupfer. 1,740,822; Dec. 24.
- Badge. J. Mayer. Des. 79,525; Oct. 1.
- Badge. T. V. Morrison. Des. 77,493; Jan. 15.
- Badge. A. Neely. Des. 78,583; May 21.
- Badge. A. Wilson. Des. 77,868; Feb. 26.
- Badge. J. P. T. Yancey. Des. 78,994-5; July 16.
- Badge or similar article. C. Abbott. Des. 79,317; Sept. 3.
- Badge or similar article. T. L. Staton. Des. 79,311; Aug. 27.
- Badge or similar article. C. C. Veneman. Des. 78,951-2; July 9.
- Badge or similar article, Emblem. H. F. Morris. Des. 79,895; Nov. 12.
- Baffle. S. F. Brooks. 1,719,209; July 2.
- Baffle. M. F. Waters. 1,722,870; July 30.
- Baffle for boilers. M. H. von Pagenhardt and W. T. Barker. 1,699,864; Jan. 22.
- Baffle for boilers, stills, and the like. C. P. Mills. 1,715,614; June 4.
- Baffle for oil and gas separators. M. F. Waters. 1,718,013; June 18.
- Baffle, Metallic. I. Harter. 1,737,756-9; Dec. 3.
- Baffle, Mobile counterbalanced deflecting. F. Epstein. 1,715,545; June 4.
- Baffle or wall. J. H. Hinman. 1,738,774; Dec. 10.



- Baffle-plate arrangement for concrete mixers. H. P. Paris. 1,723,367; Aug. 6.
- Baffling for water-tube steam boilers. G. C. Vennum. 1,711,622; May 7.
- Bag: See—
- Air bag. Hat bag.
- Armored bag. Hospital bag.
- Bait bag. Irrigation bag.
- Boston bag. Laundry bag.
- Bottom-handled bag. Mailing bag.
- Breather bag. Paper bag.
- Cellophane bag. Punching bag.
- Clothespin bag. Repair bag.
- Dustproof bag. Safety bag.
- Filter bag. Sand bag.
- Fluid-pressure bag. Sectional repair bag.
- Foldable bag. Shopping bag.
- Frameless bag. Sleeping bag.
- Fruit-pickers' bag. Sport bag.
- Garbage bag. Traveling bag.
- Garment and carrier bag. Valved bag.
- Garment bag. Vulcanizing bag.
- Golf bag. Water bag.
- Hand bag.
- Bag. M. T. Broderick. 1,701,097; Feb. 5.
- Bag. W. Friedman. 1,739,634; Dec. 17.
- Bag. J. E. Kroemer. 1,713,341; May 14.
- Bag. A. C. White. 1,716,403; June 11.
- Bag and writing pad, Combined school. S. Slomka. 1,702,279; Feb. 19.
- Bag-binding method and apparatus. J. E. Cornell. 1,734,287; Nov. 5.
- Bag-bundling machine. J. Duvall and G. W. Smith. 1,711,228; Apr. 30.
- Bag-closing machine, Filled-. N. V. Christensen and W. M. Hanneman. 1,723,133; Aug. 6.
- Bag conveyor. C. G. Kronmiller. 1,739,400; Dec. 10.
- Bag filling apparatus. G. H. Hartman. 1,733,345; Oct. 29.
- Bag-filling machine. R. P. Bushman. 1,722,123; July 23.
- Bag-filling machine. R. P. and E. L. Bushman and N. M. Pegely. 1,713,023; May 14.
- Bag-filling machine. L. H. Hartman. 1,696,952; Jan. 1.
- Bag-filling machine. P. Naehrer. 1,719,124; July 2.
- Bag-filling machine. J. Ward. 1,701,830; Feb. 12.
- Bag-filling machine. R. M. Warwick. 1,713,575; May 21.
- Bag-frame corner. W. C. Hering. 1,717,031; June 11.
- Bag lock. D. I. Reiter. 1,698,657; Jan. 8.
- Bag lock. J. B. Russ and C. E. Smith. 1,710,651; Apr. 23.
- Bag lock. F. D. Stelljes. 1,702,621; Feb. 19.
- Bag machine. A. Beckmann. 1,714,585; May 28.
- Bag machine, Paper-. A. C. and T. E. Coty. 1,742,174; Dec. 31.
- Bag-making machine. G. Corse. 1,703,723; Feb. 26.
- Bag or carrier. A. G. Thornton. 1,737,065; Nov. 26.
- Bag or envelope. G. C. Snyder. 1,734,451; Nov. 5.
- Bag or envelope, Handle. S. K. Markman. 1,718,298; June 25.
- Bag or fastener therefor. M. B. Weinstein and J. W. D. Cook. 1,719,347; July 2.
- Bag or receptacle for storing and preserving furs, articles of wearing apparel, or the like. M. Kranz. 1,709,795; Apr. 16.
- Bag packing and sewing machine. J. R. Bartlett. 1,697,706; Jan. 1.
- Bag, pocket, or pouch, and closure therefor. R. C. Child. 1,718,276; June 25.
- Bag-turning apparatus. C. F. Sparks. 1,698,110; Jan. 8.
- Bag with cosmetic folders, Hand. T. J. Lewis. 1,723,740; Aug. 6.
- Bags, Manufacture of. E. Klein. 1,721,399; July 16.
- Bags, Method and apparatus for filling. J. E. Cornell and A. J. Verwys. 1,728,394; Sept. 17.
- Baggage attachment. M. Rosenfeld. 1,715,865; June 4.
- Baggage carrier. G. H. Wheary. 1,705,599; Mar. 19.
- Baggage carrier. G. H. Wheary. 1,708,112; Apr. 9.
- Baggage carrier. G. H. Wheary. 1,720,153; July 9.
- Baggage-carrier trolley construction. G. H. Wheary. 1,717,078; June 11.
- Bagging device. W. J. and A. L. Schario. 1,727,448; Sept. 10.
- Bail ear and applying the same. J. Dister. 1,710,972; Apr. 30.
- Bail for molds, Shockless shake-out. J. T. Ramsden. 1,736,366; Nov. 19.
- Bail handle. J. B. Holden. 1,730,820; Oct. 8.
- Bail handle and attaching the same. F. Brinker. 1,700,215; Jan. 29.
- Bailer. C. J. Hillman. 1,723,037; Aug. 6.
- Bailer, dump, and pump, Combination. H. J. Steinberger and H. A. Miller. 1,733,837; Oct. 29.
- Bailer, Rotary. O. C. Blakeslee. 1,740,449; Dec. 24.
- Bails, Ear for bucket. R. J. Curtis. 1,738,042; Dec. 3.
- Bait, Artificial. L. Johns. 1,697,120; Jan. 1.
- Bait, Artificial. G. E. Nelson. 1,740,521; Dec. 24.
- Bait, Artificial. J. E. Pfueger. 1,727,936; Sept. 10.
- Bait, Artificial fish. K. Ono. 1,723,557; Aug. 6.
- Bait bag. J. C. James. 1,725,864; Aug. 27.
- Bait, Fish. C. Heddon. 1,736,403; Nov. 19.
- Bait, Fishing. J. H. Cowan. 1,740,335; Dec. 17.
- Bait-holding fishhook structure. J. Ellerbroeck. 1,717,376; June 18.
- Bait or frog, Artificial. B. G. Goble. 1,708,015; Apr. 9.
- Bait sinker and carrier. C. A. Darr. 1,701,444; Feb. 5.
- Bait, Weedless artificial. C. E. Stoll. 1,701,643; Feb. 12.
- Baits, Finishing. J. B. Pagin. 1,698,964; Jan. 15.
- Baker and roaster. G. P. A. Weisenborn. 1,732,347; Oct. 22.
- Baker, oven, and griddle, Combination. E. Silen. 1,736,223; Nov. 19.
- Baking. C. L. Thomas. 1,732,289; Oct. 22.
- Baking flat pieces of bread and the like, Apparatus for. J. B. Icre. 1,716,891; June 11.
- Baking method and apparatus. R. L. Corby. 1,705,636; Mar. 19.
- Baking pan. A. Cohn. 1,707,655; Apr. 2.
- Baking pan. A. G. Katzinger. 1,732,019; Oct. 15.
- Baking pan. E. Katzinger. 1,734,731; Nov. 5.
- Baking pan. J. A. Kratz. 1,714,379; May 21.
- Baking pan. O. Stratton and M. B. Hefner. 1,727,257; Sept. 3.
- Baking pan, Cake-. A. C. Gorton. 1,701,560; Feb. 12.
- Baking pan, Cake-. R. H. Wentorf. 1,713,577; May 21.
- Baking pan, Multiple. L. H. Debs. 1,730,919; Oct. 8.
- Baking utensil. F. A. Bienvenu. 1,699,869; Jan. 22.
- Balance indicator for golf clubs. Z. S. Taylor. 1,735,517; Nov. 12.
- Balance, Three-weighted torsion. E. K. Kogbetliantz. 1,737,660; Dec. 3.
- Balance wheel. J. Bradley. 1,729,026; Sept. 24.
- Balancing device, Dynamic. G. M. Eaton. 1,731,922; Oct. 15.
- Balancing machine. W. H. Himes. 1,697,186; Jan. 1.
- Balancing machine. T. C. Rathbone. 1,704,341; Mar. 5.
- Balancing machine. C. R. Soderberg. 1,731,357; Oct. 15.
- Balancing machine. W. E. Trumpler. 1,728,518; Sept. 17.
- Balancing machine. W. E. Trumpler. 1,730,019; Oct. 1.
- Balancing machine. W. E. Trumpler. 1,739,105; Dec. 10.
- Balancing machine. W. E. Trumpler. 1,739,106; Dec. 10.
- Balancing machine. W. E. Trumpler and C. R. Soderberg. 1,709,694; Apr. 16.
- Bale-tie opener. A. F. Renaud. 1,718,488; June 25.
- Baler, Newspaper. M. B. Sellgman. 1,720,449; July 9.
- Bales, Method of and apparatus for making. A. S. Mackenzie. 1,723,245; Aug. 6.
- Baling block. T. Gray. 1,698,131; Jan. 8.
- Baling machine, Power. J. Hansen. 1,723,348; Aug. 6.
- Baling or bundling press. F. H. and J. M. Towler. 1,707,314; Apr. 2.
- Baling press. C. A. Brown. 1,736,338; Nov. 19.
- Baling press. C. B. Hardman. 1,721,906; July 23.
- Baling press. J. H. McLean. 1,737,194; Nov. 26.
- Baling presses, Apparatus for. M. C. Nixon. 1,710,942; Apr. 30.
- Ball: See—
- Basket ball. Inflated ball.
- Float ball. Mechanical ball.
- Golf ball. Metal ball.
- Inflatable ball. Playing ball.
- Ball-and-socket joint. J. H. Harley. 1,728,490; Sept. 17.
- Ball-and-socket pipe joint, Flexible. C. A. Kiel. 1,714,563; May 28.
- Ball-bearing cage. A. H. Linde. 1,712,222; May 7.
- Ball-bearing wheel, Self-lubricating pressed-steel. A. R. Pribil. 1,729,124; Sept. 24.
- Ball bearings, Finishing. C. R. Alden. 1,708,491; Apr. 9.
- Ball-blank-forming machine. G. E. Abbott. 1,726,464; Aug. 27.
- Ball-bouncing apparatus. D. W. Nearing. 1,704,056; Mar. 5.
- Ball cock. W. F. Peterson. 1,723,205; Aug. 6.
- Ball crank. F. Lutz. 1,711,737; May 7.
- Ball-fringe machine. M. O. Rehffuss. 1,708,780; Apr. 9.
- Ball game. K. G. Dieterich. 1,714,905; May 28.
- Ball-game apparatus. E. L. Nertney. 1,715,563; June 4.
- Ball joint. H. S. Burnham. 1,741,975; Dec. 31.
- Ball joint. W. D. Corlett. 1,740,971; Dec. 24.
- Ball joint. A. A. Witz. 1,697,037; Jan. 1.
- Ball making, Method of and apparatus for. J. R. Gam-meter. 1,729,716; Oct. 1.
- Ball mill. R. Bernhard. 1,719,164; July 2.
- Ball mill, Air-swept. H. H. Waterman. Re17,462; Oct. 15.
- Ball retarder for bowling alleys. E. Iledenskoog. 1,714,310; May 21.
- Ball seat and making same, Hardened. M. P. Graham. 1,718,229; June 25.
- Ball seats, Making. F. C. Crawford and M. P. Graham. 1,714,660-1; May 28.
- Ball-throwing machine. J. D. Jeter. 1,707,726; Apr. 2.
- Balling machine. J. J. Caldwell. 1,735,036; Nov. 12.
- Balls from the holes used in ball-putting games, Device for ejecting. T. H. Hart. 1,723,547; Aug. 6.
- Balls, Making. J. R. Gammeter. 1,729,717; Oct. 1.
- Balls, Making playing. W. L. Childs. 1,713,216; May 14.
- Ballast, Distributing. B. W. Straw. 1,732,545; Oct. 22.
- Ballast-tamping machine. C. Jackson. 1,713,340; May 14.
- Balloon construction. L. G. Copeman. 1,714,079; May 21.
- Banana stand. E. S. Tecktonius. Des. 80,098; Dec. 10.
- Band, Baby. D. Reinfield. 1,731,082; Oct. 8.
- Band brake. M. Stringer. 1,712,526; May 14.
- Band brake. G. J. Thomas. 1,699,550; Jan. 22.
- Band-building machine. E. F. Maas. 1,728,162; Sept. 10.
- Band carrier system, Single-side. E. I. Green. 1,719,052; July 2.
- Band, chain, or linkage, Expansible. A. L. Newman. 1,701,982; Feb. 12.
- Band, chain, or linkage, Flexible. A. L. Newman. 1,739,689; Dec. 17.
- Band, chain, or the like, Expansible. C. H. Kestenman. 1,704,049; Mar. 5.



- Band clip. P. C. Alford. 1,735,346; Nov. 12.  
 Band, Endless track. W. A. and N. D. Trinler. 1,739,533; Dec. 17.  
 Band fastener. A. F. Krammer. 1,712,566; May 14.  
 Band for envelopes and the like. A. Novick. 1,719,617; July 2.  
 Band for trousers, Leg. H. Mines. 1,739,687; Dec. 17.  
 Band-forming machine. D. E. Hennessy. 1,716,552; June 11.  
 Band iron hoops, and the like, Rolling of. B. Witting. 1,718,806; June 25.  
 Band-making machine. E. F. Maas and E. G. Templeton. 1,732,759; Oct. 22.  
 Band or bracelet, Expansible. C. H. Kestenman. 1,698,134; Jan. 8.  
 Band or bracelet, Expansible. C. H. Kestenman. 1,739,722; Dec. 17.  
 Band, Poultry leg. J. O. Ker. 1,725,926; Aug. 27.  
 Band receiving system. F. K. Vreeland. 1,725,433; Aug. 20.  
 Band stitching and stretching device. T. Midgley. 1,716,596; June 11.  
 Band, Trimmed lock side. E. B. Bartlett. Des. 77,462; Jan. 15.  
 Band-turning device. W. F. Irrgang. 1,737,157; Nov. 26.  
 Band-wheel structure. R. R. Bloss. 1,717,635; June 18.  
 Bands of flexible material to be circulated in reduced spaces, Apparatus for enabling long endless. A. Rouiller. 1,713,921; May 21.  
 Bandage and making it, Plaster of paris. G. S. Mathey. 1,726,403; Aug. 27.  
 Bandage, Catamenial. S. Márr. 1,733,997; Oct. 29.  
 Bandage, Nonslipping abdominal. A. E. Sauter. 1,739,989; Dec. 17.  
 Bandage or catamenial appliance. J. Richter. 1,724,111; Aug. 13.  
 Bandage roll. H. M. Brightman. 1,730,114; Oct. 1.  
 Bandeau. B. F. Robinson. 1,728,138; Sept. 10.  
 Banding hats, Apparatus for. E. E. Hodshon. 1,730,573; Oct. 8.  
 Banjo. A. Franic. 1,714,502; May 28.  
 Banjo. W. H. Horton. 1,704,323; Mar. 5.  
 Banjo. W. W. Nelson. 1,705,202; Mar. 12.  
 Banjo. E. A. Stathopoulos. 1,723,818; Aug. 6.  
 Banjo and the like. M. A. Oettinger. 1,713,855; May 21.  
 Banjo head. W. L. Lange. 1,739,006; Dec. 10.  
 Banjo-head tightener. J. K. Williamson. 1,724,629; Aug. 13.  
 Banjo mute, Automatic. W. J. Davidson, M. G. Wolf, and A. Berdich. 1,708,169; Apr. 9.  
 Banjo stand. V. S. Truett and H. H. George. 1,708,285; Apr. 9.  
 Banjo-tone modifier. W. H. Place, jr. 1,701,420; Feb. 5.  
 Banjos and analogous apparatus, Construction of. V. Grau. 1,720,270; July 9.  
 Banjos, Hollow rim for. W. L. Lange. 1,704,391; Mar. 5.  
 Banjos or like musical instruments, Arm rest or guard for. L. A. Elkington. 1,723,687; Aug. 6.  
 Bank and toy, Savings. I. J. A. Hagemo. 1,740,172; Dec. 17.  
 Bank, Basket-ball. R. R. Jones. 1,702,510; Feb. 19.  
 Bank, Clock. A. M. Belfield. 1,722,974; July 30.  
 Bank, Coin. C. L. Beears and J. Habart. 1,700,732; Feb. 5.  
 Bank, Coin. D. A. Russell. 1,708,238; Apr. 9.  
 Bank, Coin-savings. M. S. Gleason. Re17,284; Apr. 23.  
 Bank device, Budget. G. F. Wells and E. R. Morgan. 1,732,452; Oct. 22.  
 Bank device, Clock. W. D. and J. R. Pennington. 1,740,955; Dec. 24.  
 Bank, Novelty. A. V. Davies. 1,714,904; May 28.  
 Bank or similar article, Coin. C. H. Weisgerber. Des. 78,596; May 21.  
 Bank, Pocket coin. B. T. Moran. 1,700,986; Feb. 5.  
 Bank-protecting device. E. E. Jones. 1,714,267; May 21.  
 Bank-protecting means. E. M. Runkles and C. Isisa. 1,703,751; Feb. 26.  
 Bank protective device. D. Van Hoozer and I. Stone. 1,729,302; Sept. 24.  
 Bank protector. H. D. Curtis. 1,709,522; Apr. 16.  
 Bank protector. A. Deragowski. 1,721,948; July 23.  
 Bank, Registering. A. C. Prince. 1,700,447-8; Jan. 29.  
 Bank, Savings. C. C. Corbett. 1,732,052; Oct. 22.  
 Bank, Savings. L. J. Disser, sr. 1,710,210; Apr. 23.  
 Bank, Savings. C. Fisher. 1,734,617; Nov. 5.  
 Bank, Savings. B. T. Moran. 1,700,987-8; Feb. 5.  
 Bar: See—  
 Accordion reed bar. Horizontal bar.  
 Boring bar. Knife bar.  
 Bumper bar. Lingual bar.  
 Concrete bar. Lumber-piling bar.  
 Core bar. Machine bar.  
 Cutter bar. Needle bar.  
 Exercise bar. Neutralizer bar.  
 Feeder bar. Parallel bar.  
 Garment-retainer bar. Pressure bar.  
 Grab bar. Rail-joint bar.  
 Grate bar. Splice bar.  
 Guide bar. Towel bar.  
 Harvester finger bar.  
 Bar for dentures, Connecting. C. C. Hallowell. 1,704,856; Mar. 12.  
 Bar for foundry flasks, Sand-retaining. P. A. Nuttall. 1,697,135; Jan. 1.  
 Bar for furnace grates, Bearer. G. H. Langton. 1,720,483; July 9.  
 Bar for harrows, Folding drag. W. Ring. 1,708,328; Apr. 9.  
 Bar for railway rails, Boltless angle. J. L. Schlenker. 1,730,949; Oct. 8.  
 Bar for show windows or the like, Corner or division. B. Gorkin. 1,708,414; Apr. 9.  
 Bar gate, Self-closing. J. M. Avory. 1,702,758; Feb. 19.  
 Bar-heating furnace. F. W. Brooke. 1,727,097; Sept. 3.  
 Bar or pig for pot feeders, Type-metal. D. S. Kennedy. 1,713,606; May 21.  
 Bar plate or rail-joint bar. G. W. Muller. 1,720,372; July 9.  
 Bar rack. W. N. Vance. 1,698,974; Jan. 15.  
 Bar-supporting structure, Bus-. W. H. Schramm. 1,724,887; Aug. 13.  
 Bar twister for rolling mills. A. T. Blocker. 1,735,282; Nov. 12.  
 Bar-web-bending machine. F. H. Moyer. 1,727,894; Sept. 10.  
 Bars and shapes, Apparatus for straightening metal. J. T. Leech. 1,736,976; Nov. 26.  
 Bars to traction shoes, Securing. W. E. Wine. 1,715,881; June 4.  
 Barbecue machine. G. Garvis. 1,740,729; Dec. 24.  
 Barbecue machine. A. Rasmussen and W. S. Goodell. 1,733,627; Oct. 29.  
 Barbecue-machine guarding device. A. Rasmussen and William S. Goodell. 1,728,738; Sept. 17.  
 Barbecue roaster. S. P. Weisenstein. Des. 79,448; Sept. 17.  
 Barbecuing machine. L. Matiska. 1,704,621; Mar. 5.  
 Barbecuing machine. C. E. Miller. 1,719,713; July 2.  
 Barbers' chair. J. T. Bayard. 1,699,460; Jan. 15.  
 Barber's pole. A. R. Schwarzkopf and R. R. Wagner. Des. 77,862; Feb. 26.  
 Barge drive. E. T. Wardell. 1,716,607; June 11.  
 Barge for raising sunken vessels. E. Hisle. 1,715,291; May 28.  
 Barge-handling device. S. M. Carlisle. 1,703,836; Feb. 26.  
 Barge structure, Steel. W. G. Esmond. 1,717,499; June 18.  
 Barium as barium carbonate from barium silicates, Recovering. C. Deguide. 1,697,722; Jan. 1.  
 Bark-removing machine. K. R. Lagus. 1,736,924; Nov. 26.  
 Barking machine. O. E. St. John. 1,727,491; Sept. 10.  
 Barn batten and panel strip. L. T. Petersen. 1,714,237; May 21.  
 Barn structure, Dairy-. J. D. Youngman. 1,711,004; Apr. 30.  
 Barrel. C. B. Arnold. 1,698,487; Jan. 8.  
 Barrel and elevator drive, Sand-blast. F. J. Hull. 1,711,024; Apr. 30.  
 Barrel, Collapsible. H. A. W. Howcott. 1,732,128; Oct. 15.  
 Barrel, Core. W. I. McLaughlin. 1,701,724; Feb. 12.  
 Barrel, Core. J. T. Phipps. 1,731,262; Oct. 15.  
 Barrel-handling device. R. J. Rogers. 1,708,554; Apr. 9.  
 Barrel-heading machine. G. Fredericks. 1,708,385; Apr. 9.  
 Barrel lift. G. J. Miller. 1,704,054; Mar. 5.  
 Barrel loading, Sand-blast-. F. J. Hull. 1,710,479; Apr. 23.  
 Barrel-making machine. W. J. Smith. 1,716,801; June 11.  
 Barrel, Metal. W. Althoff. 1,709,701; Apr. 16.  
 Barrel mounting for firearms. F. T. Moore. 1,738,500; Dec. 3.  
 Barrel, Oil. T. D. McCall. 1,705,157; Mar. 12.  
 Barrel rack, Sectional oil-. G. E. Lundberg. 1,739,403; Dec. 10.  
 Barrel, Sand-blast. F. J. Hull. 1,710,167; Apr. 23.  
 Barrel-seaming machine. B. J. Lindgren. 1,715,847; June 4.  
 Barrel, Sheet-metal. G. A. Sexton. 1,733,243; Oct. 29.  
 Barrel skid. P. L. Gumaer. 1,733,662; Oct. 29.  
 Barrel stand, Rocker. W. B. Pavey. 1,716,281; June 4.  
 Barrel staves, Method of and apparatus for producing ventilated. A. B. Houtz. 1,711,388; Apr. 30.  
 Barrel, Steel. L. B. and W. D. Beath. 1,696,996; Jan. 1.  
 Barrel, Well. C. Heath. 1,703,036; Feb. 19.  
 Barrel, Working. W. A. O'Bannon. 1,714,434; May 21.  
 Barrette. A. and J. Goodman. 1,704,737; Mar. 12.  
 Barrette, comb and hair waver, Combined. G. A. Porter. 1,741,073; Dec. 24.  
 Barrette, Hairpain. H. S. Rowland. 1,718,836; June 25.  
 Barrier, Sectional. N. G. Marceno. 1,727,779; Sept. 10.  
 Barrier, Yieldable. E. D. Sawyer. 1,699,545; Jan. 22.  
 Barrier, Yieldable. E. D. Sawyer. 1,700,141; Jan. 29.  
 Barrier, Yieldable. E. D. Sawyer. 1,719,196; July 2.  
 Base. C. J. Travers. 1,709,446; Apr. 16.  
 Base article of manufacture, Ferrous. W. H. Phillips. 1,697,083; Jan. 1.  
 Baseball centers, Manufacturing. M. B. Reach. Re17,200; Jan. 22.  
 Baseball game. F. R. Chester. 1,713,643; May 21.  
 Baseball game. E. G. Jewett. 1,710,773; Apr. 30.  
 Baseball game. W. J. Zarse. 1,741,086; Dec. 24.  
 Baseball-throwing machine. P. L. Bible and J. T. Thrasher. 1,733,394; Oct. 29.  
 Base-exchange body. A. O. Jaeger. 1,728,732; Sept. 17.  
 Base exchange materials, Making. A. S. Behrman. 1,736,281; Nov. 19.



- Base-exchanging compounds, Manufacture and production of. T. P. Hilditch and H. J. Wheaton. 1,717,777; June 18.
- Base for clock cases or articles of analogous nature. P. Cricchio. Des. 79,281; Aug. 27.
- Base for cooking utensils. R. H. Wentorf and R. N. Kircher. 1,698,926-7; Jan. 15.
- Base for lamp posts and trolley-wire poles. D. E. Allen. 1,696,934; Jan. 1.
- Base for posts. W. A. Sague. 1,711,178; Apr. 30.
- Base for radiotubes. C. J. Terrill. 1,731,832; Oct. 15.
- Base for signal and cable posts, Auxiliary. J. H. Molloy. 1,734,594; Nov. 5.
- Base for smoking stands. E. E. Ekvall. Des. 79,794; Nov. 5.
- Basing and soldering. D. S. Gustin. 1,706,880; Mar. 26.
- Basins, Sanitary insert for wash. J. C. Belles. 1,703,053; Feb. 19.
- Basket. A. Hewson. 1,706,062; Mar. 19.
- Basket. W. F. Patten. 1,707,565; Apr. 2.
- Basket. G. P. Shearer. 1,701,312; Feb. 5.
- Basket. H. B. Walter. 1,702,921; Feb. 19.
- Basket and supporting apron therefor. V. M. Reece and B. Armstrong. 1,736,131; Nov. 19.
- Basket ball. G. L. Pierce. 1,718,305; June 25.
- Basket, Berry. G. MacDonald. 1,735,173; Nov. 12.
- Basket, Burial. B. M. Eifer. 1,708,443; Apr. 9.
- Basket, Cluster. H. Neumann. 1,715,423; June 4.
- Basket. Collapsible paper shipping. L. D. Felton. 1,707,788; Apr. 2.
- Basket, Display. F. M. Snyder. 1,697,789; Jan. 1.
- Basket feeder, Automatic. P. Navarre. 1,736,935; Nov. 26.
- Basket, Fishing. J. Rutherford. 1,720,059; July 9.
- Basket for dishwashers. F. G. Brotz. 1,707,297; Apr. 2.
- Basket, Fruit. H. J. O'Brien. 1,699,855; Jan. 22.
- Basket, Fruit. G. O. Reshaw. 1,727,617; Sept. 10.
- Basket, Grate. H. V. Lancaster. Des. 78,108-9; Mar. 26.
- Basket, Hand. M. L. Hahn and F. O. Hiller. 1,712,558; May 14.
- Basket handle. F. J. Brainard. Re17,210; Feb. 12.
- Basket-making machine. Ed. Craig. 1,706,440; Mar. 26.
- Basket, Wire. C. S. Glenn. 1,722,416; July 30.
- Baskets and the like, Producing. R. Weber. 1,704,876; Mar. 12.
- Baskets, Core for use in the manufacture of wicker and reed. W. J. Lawrence. 1,724,293; Aug. 13.
- Bat, Baseball. B. B. Smith. 1,706,680; Mar. 26.
- Bat-forming machine. J. B. and G. Robertson. 1,733,170; Oct. 29.
- Batcher. J. Gwyne and J. N. Heltzel. 1,723,234; Aug. 6.
- Bath: See—  
Galvanizing bath. Solder bath.  
Salt bath.
- Bath and dressing cabinet, Combination baby. G. H. Havener. 1,724,479; Aug. 13.
- Bath attachment. T. W. Mitchell. 1,739,163; Dec. 10.
- Bath curtains, Means to suspend shower-. J. J. Moss. 1,714,885; May 28.
- Bath fixture. J. Falzer. 1,732,798; Oct. 22.
- Bath fixture, Shower-. M. W. Wuesthoff. 1,733,521; Oct. 29.
- Bathroom combination set. F. Mahler. 1,699,149; Jan. 15.
- Bathroom construction. J. W. De Mott. 1,697,229; Jan. 1.
- Bathroom fixture, Combination. J. H. Balmer. Des. 78,498; May 14.
- Bath seat. S. J. and H. Downham. 1,740,444; Dec. 24.
- Bathtub. M. Mirkin. 1,726,752-3; Sept. 3.
- Bathtub. W. Sellman. Des. 77,917; Mar. 5.
- Bathtub. O. Thompson. 1,704,639; Mar. 5.
- Bathtub and dressing table, Infant's folding combination. H. E. McCandless. 1,726,159; Aug. 27.
- Bathtub and similar structure. J. A. Miller. 1,738,256; Dec. 3.
- Bathtub and water heater, Combined. J. V. Garcia. 1,723,981; Aug. 6.
- Bathtub attachment. F. Stites. 1,729,367; Sept. 24.
- Bathtub carrier. T. J. Otto. 1,721,745; July 23.
- Bathtub construction. J. Sauer. 1,704,105; Mar. 5.
- Bathtub, Infant's. J. Gottlieb. 1,734,462; Nov. 5.
- Bathtub, Infant's collapsible. A. G. Feldman. 1,735,965; Nov. 19.
- Bathtub pad. C. Miller. 1,721,571; July 23.
- Bathing apparatus, Shower-. R. J. Gillespie. 1,719,696; July 2.
- Bathing appliance. A. Rothchild and B. Sklerov. 1,712,521; May 14.
- Bathing cap. T. W. Miller. 1,718,060; June 18.
- Bathing device. F. M. Richey and F. McQuiston. 1,723,578; Aug. 6.
- Bathing dress. W. Hertz. Re17,404; Aug. 13.
- Bathing garment. J. Dreyfus. 1,720,629; July 9.
- Bathing pool, Artificial. W. Fisch. 1,718,951; July 2.
- Bathing purposes, Apparatus for. G. A. Bruggmann. 1,716,109; June 4.
- Bathing suit. J. O. Ford. 1,730,812; Oct. 8.
- Bathing suit. D. Long. Des. 78,399; Apr. 30.
- Bathing suit, Pocket. R. E. Harris. 1,714,365; May 21.
- Bats, Making. M. J. Stack. 1,712,124; May 7.
- Batteries, Cork separator for storage. W. F. Grupe. 1,726,223; Aug. 27.
- Batteries for service, Preparing. W. H. Grinditch. 1,722,210; July 23.
- Battery: See—  
Demountable battery. Primary battery.  
Dry battery. Storage battery.  
Electric battery. Terminal battery.  
Galvanic battery.
- Battery. G. W. Hebbeler. 1,712,822; May 14.
- Battery and generator control. P. R. Yunker. 1,710,851; Apr. 30.
- Battery and making same, Electric. R. Eckstein. 1,723,727; Aug. 6.
- Battery box. P. H. Henkel. 1,720,363; July 9.
- Battery box. T. R. Palmer. 1,731,752; Oct. 15.
- Battery-box holddown. B. A. Pollard. 1,734,645; Nov. 5.
- Battery boxes, Composition of matter for. J. and T. Sato. 1,711,544; May 7.
- Battery boxes, Making. F. S. Callender. 1,721,293; July 16.
- Battery cap. A. Garrison. 1,697,353; Jan. 1.
- Battery carrier. G. H. Allen. 1,734,511; Nov. 5.
- Battery carrier and lifter. A. W. Rekenhaller. 1,716,188; June 4.
- Battery-carrying device. B. Fourethier. 1,723,147; Aug. 6.
- Battery-case construction. W. E. Holland. 1,733,878; Oct. 29.
- Battery-cell closure, Storage. B. Ford. 1,732,158; Oct. 15.
- Battery-cell container. G. P. Tarver. 1,723,586; Aug. 6.
- Battery-cell extractor. W. R. Munson and J. Q. Shipley. 1,736,506; Nov. 19.
- Battery charger. J. B. Guerra. 1,733,874; Oct. 29.
- Battery-charger apparatus. C. M. Angell. 1,721,631; July 23.
- Battery-charging apparatus. A. E. Waller. 1,732,346; Oct. 22.
- Battery-charging bench. B. J. Haskins. 1,729,109; Sept. 24.
- Battery-charging device. J. Cowen. 1,722,900; July 30.
- Battery charging device. H. S. Werner. 1,723,903; Aug. 6.
- Battery-charging system. W. E. Addicks. 1,726,639; Sept. 3.
- Battery-charging system. E. J. Blake. 1,716,292; June 4.
- Battery-charging system. J. R. Dewar. 1,702,724; Feb. 19.
- Battery-charging system. G. Marenti. 1,708,102; Apr. 9.
- Battery-charging system. W. E. Menzies. 1,705,673; Mar. 19.
- Battery-charging system. M. Schwartz. 1,727,381; Sept. 10.
- Battery-charging system, Automatic. S. V. C. Scruby. 1,733,560; Oct. 29.
- Battery-charging system, Storage. W. E. Broekhuysen. 1,720,519; July 9.
- Battery-charging system, Storage. A. V. Livingston. 1,720,518; July 9.
- Battery-charging system, Storage. A. V. Livingston. 1,720,521; July 9.
- Battery-charging system, Storage. L. Von Ohlsen. 1,720,520; July 9.
- Battery-charging system, Storage. L. H. Von Ohlsen. 1,711,189; Apr. 30.
- Battery clip. E. C. Weisgerber. 1,720,067; July 9.
- Battery-condition indicator. W. C. Zagarino and M. T. McDonald. 1,719,160; July 2.
- Battery connector. E. S. Miller. 1,724,214; Aug. 13.
- Battery connector, Storage. A. Pierce. 1,728,868; Sept. 17.
- Battery connection. E. J. Thurber. 1,738,157; Dec. 3.
- Battery construction, Dry-. H. R. C. Anthony. 1,737,445; Nov. 26.
- Battery construction, Storage-. H. J. Bartley. 1,741,046; Dec. 24.
- Battery container and handle. W. H. Duggan. 1,720,947; July 16.
- Battery container, Automobile storage-. J. B. Parsons. 1,716,598; June 11.
- Battery-container construction. W. E. Holland. 1,697,063; Jan. 1.
- Battery depolarizer. B. K. Brown. 1,729,416; Sept. 24.
- Battery-electrode elements, Apparatus for producing storage-. T. A. Edison. 1,723,609; Aug. 6.
- Battery electrodes, Preservice protection of Storage-. R. C. Benner and L. C. Werking. 1,737,039; Nov. 26.
- Battery electrolytic control, Method and means of storage-. D. W. Davis. 1,733,334; Oct. 29.
- Battery-element package. J. M. Skinner. 1,718,086; June 18.
- Battery feed for automatic weft-replenishing looms. T. H. Barrett and D. A. Weems. 1,710,527; Apr. 23.
- Battery grease-sealing nut, Storage. W. E. Dunn. 1,714,467; May 21.
- Battery indicator. A. B. Hall and J. H. Quilbot. 1,703,233; Feb. 26.
- Battery indicator. J. E. Kenney. 1,699,893; Jan. 22.
- Battery jar. J. H. Wagenhorst. 1,722,650; July 30.
- Battery-level indicator. W. J. Healey. 1,702,436; Feb. 19.
- Battery of retorts, Operating a. M. J. Trumble. 1,713,794; May 21.
- Battery plate and making same. W. H. Grinditch. 1,718,139; June 18.
- Battery plate and making the same, Dry-storage-. B. Heap. 1,725,734; Aug. 20.
- Battery plates, Manufacturing secondary-. F. Garaca. 1,713,825; May 21.
- Battery post. S. Swenson. 1,716,197; June 4



- Battery-post clamp. F. J. Garlick. 1,716,489; June 11.  
 Battery-post connector. E. F. Rhoades. 1,720,003; July 9.  
 Battery separator and retainer, Storage-. W. B. Stone. 1,736,101; Nov. 19.  
 Battery-separator slicing machine. W. J. Rehrig. 1,720,093; July 9.  
 Battery terminal. A. M. Clark. 1,714,077; May 21.  
 Battery terminal. C. Crews. 1,732,261; Oct. 22.  
 Battery terminal. T. Cotter and T. F. Griggs. 1,735,038; Nov. 12.  
 Battery terminal. W. O. Parson and J. F. Smith. 1,704,336; Mar. 5.  
 Battery-terminal connector. J. W. Bone. 1,714,762; May 28.  
 Battery terminal, Noncorrodible. C. T. Hixson. 1,715,599; June 4.  
 Battery-terminal puller. H. E. von Grimmerstein. 1,715,019; May 28.  
 Battery-terminal puller, Storage-. J. A. Wiles. 1,707,379; Apr. 2.  
 Battery-terminal spreader and lifter. J. E. O'Toole. 1,708,848; Apr. 9.  
 Battery tester or the like. L. Edelman. Des. 78,509; May 14.  
 Battery unit, Oil-pump. A. E. Davenport. 1,730,119; Oct. 1.  
 Beach-protecting and beach-building structure. P. T. Zizina. 1,721,893; July 23.  
 Beacon. W. R. Hunstman. 1,732,363; Oct. 22.  
 Beacon. K. Wiegand. 1,706,091; Mar. 19.  
 Beacon system for night flying. E. A. Sperry. 1,709,377; Apr. 16.  
 Beacon, Unattended. F. R. House. 1,700,226; Jan. 29.  
 Bead flipper, Horizontal. E. Hutchens. Re17,198; Jan. 22.  
 Bead former. R. Beardsley. 1,732,324; Oct. 22.  
 Bead-holding device. G. St. John, jr. 1,726,933; Sept. 3.  
 Bead material, Method and apparatus for making. N. H. Myers and E. E. Leach. 1,734,018; Oct. 29.  
 Bead-ring-applying device. R. Hansen. 1,730,572; Oct. 8.  
 Bead setter. A. J. Dexter. 1,716,578; June 11.  
 Bead setter. P. W. Lehman. 1,711,057; Apr. 30.  
 Bead-turning machine. D. L. Williams. 1,717,134; June 11.  
 Beaded articles, Forming. H. A. Unke. 1,724,117; Aug. 13.  
 Beaded fabric. M. Mayer. 1,715,420; June 4.  
 Beam. J. F. Havemeyer. 1,707,008; Mar. 26.  
 Beam and making same, Structural. W. Dalton. 1,708,753; Apr. 9.  
 Beam, Apparatus for altering the shape and size of a projected. H. A. McGunnigle. 1,709,626; Apr. 16.  
 Beam, Balance. J. P. Müller. 1,719,901; July 9.  
 Beam, Chock. M. J. Norman, sr. 1,702,169; Feb. 12.  
 Beam construction, Reinforced. T. H. Tise. 1,733,677; Oct. 29.  
 Beam hanger. R. S. Taylor and A. F. King, 3d. 1,720,104; July 9.  
 Beam hanger, Adjustable. J. P. Ratigan. 1,720,056; July 9.  
 Beam hanger, Brake-. G. W. Miller. 1,739,409; Dec. 10.  
 Beam, Noncorrosive yarn. L. Holt. 1,719,703; July 2.  
 Beam or girder. E. B. Carns. 1,706,996; Mar. 26.  
 Beam, Pilot. W. M. Sheehan. 1,729,554; Sept. 24.  
 Beam warper. W. P. Hornbuckle and R. F. Craig. 1,697,564; Jan. 1.  
 Beaming machine. G. Sipp. 1,719,565; July 2.  
 Bean and grain bed. C. D. Hayward. 1,700,843; Feb. 5.  
 Bean cutter. F. L. Orr. 1,741,709; Dec. 31.  
 Bean snipper. R. F. Laughlin. 1,726,032; Aug. 27.  
 Beans, Conditioning. J. H. McFarland. 1,707,360; Apr. 2.  
 Bearing. H. H. Avery. 1,708,997; Apr. 16.  
 Bearing. O. D. H. Bentley. 1,724,902; Aug. 20.  
 Bearing. J. A. Carr. 1,697,632; Jan. 1.  
 Bearing. C. P. Eisenbauer. 1,706,776; Mar. 26.  
 Bearing. E. Gross. 1,740,084; Dec. 17.  
 Bearing. H. J. Hanzlik. 1,730,503; Oct. 8.  
 Bearing. H. C. Harris. 1,701,474; Feb. 5.  
 Bearing. H. A. S. Howarth. 1,734,906; Nov. 5.  
 Bearing. J. J. Janca. 1,710,928; Apr. 30.  
 Bearing. J. T. Janette. 1,715,840; June 4.  
 Bearing. A. Kingsbury. 1,739,362; Dec. 10.  
 Bearing. F. X. Lauterbur. 1,700,321; Jan. 29.  
 Bearing. H. W. Liljah. 1,719,665; July 2.  
 Bearing. H. Marles. 1,734,222; Nov. 5.  
 Bearing. A. O. Miller. 1,734,591; Nov. 5.  
 Bearing. P. Paszkowski. 1,728,507; Sept. 17.  
 Bearing. H. M. Rockwell. 1,718,381; June 25.  
 Bearing. H. F. Schmidt. 1,715,010; May 28.  
 Bearing. W. J. Shaw. 1,736,671; Nov. 19.  
 Bearing. D. Viden. 1,731,758; Oct. 15.  
 Bearing. L. Wetmore. 1,708,644; Apr. 9.  
 Bearing. H. M. Williams. 1,738,163; Dec. 3.  
 Bearing. H. T. Woolson. 1,705,630; Mar. 19.  
 Bearing, Adjustable. E. J. Wesp. 1,721,363; July 16.  
 Bearing, Adjustable loom. M. P. Owens. 1,721,637; July 23.  
 Bearing adjuster. F. M. Watkins and R. Cunningham. 1,698,614; Jan. 8.  
 Bearing-adjusting means for roller mills. A. Brünninghaus. 1,734,793; Nov. 5.  
 Bearing air protection. H. E. Hoover. 1,718,293; June 25.  
 Bearing and aligning method, Thrust. M. E. Layne. 1,701,078; Feb. 5.  
 Bearing and making the same. C. R. Short. 1,703,177; Feb. 26.  
 Bearing and making the same, Antifriction. G. O. Hodge. 1,719,702; July 2.  
 Bearing and producing it. S. E. Boynton. 1,697,848; Jan. 8.  
 Bearing and separator therefor, Antifriction. F. G. Hughes. 1,697,064; Jan. 1.  
 Bearing, Antifriction. G. R. Bott and F. E. Mueller. 1,722,490; July 30.  
 Bearing, Antifriction. A. T. Brown. 1,738,984; Dec. 10.  
 Bearing, Antifriction. S. B. Haseltine. 1,730,205; Oct. 1.  
 Bearing, Antifriction. J. F. O'Connor. 1,710,183; Apr. 23.  
 Bearing, Antifriction. J. F. O'Connor. 1,710,185; Apr. 23.  
 Bearing, Antifriction. J. F. O'Connor. 1,730,863; Oct. 8.  
 Bearing, Antifriction. J. F. O'Connor. 1,737,611; Dec. 3.  
 Bearing, Antifriction. J. F. O'Connor. 1,738,722; Dec. 10.  
 Bearing, Antifriction. O. Sehmisch. 1,733,910; Oct. 29.  
 Bearing, Antifriction. H. L. Tanner. 1,722,948; July 30.  
 Bearing assembly, Roller-. A. L. Miéville. 1,702,125; Feb. 12.  
 Bearing, Automatic take-up. J. A. Anderson. 1,713,638; May 21.  
 Bearing, Axle. A. L. Carroll. 1,723,764; Aug. 6.  
 Bearing, Axle. W. L. Champion. 1,739,439; Dec. 10.  
 Bearing, Axle. C. L. Eastburg. 1,732,263; Oct. 22.  
 Bearing, Axle. C. Wetzel. 1,710,559; Apr. 23.  
 Bearing, Balance thrust. J. M. Melott. 1,734,223; Nov. 5.  
 Bearing, Ball. G. L. Blomquist. 1,718,848; June 25.  
 Bearing, Ball. G. R. Bott and F. E. Mueller. 1,722,488; July 30.  
 Bearing, Ball. C. W. Dake. 1,699,325; Jan. 15.  
 Bearing, Ball. C. W. Dake. 1,738,359; Dec. 3.  
 Bearing, Ball. W. H. Rhoda. 1,699,450; Jan. 15.  
 Bearing, Ball. L. J. Sauer and C. H. Joy, jr. 1,730,630; Oct. 8.  
 Bearing, Ball. A. W. Sunleaf. 1,720,703; July 16.  
 Bearing box. W. Webber. 1,737,816; Dec. 3.  
 Bearing bushing. C. H. Landon. 1,732,273; Oct. 22.  
 Bearing bushing, Antirattling. F. C. Morris. 1,716,499; June 11.  
 Bearing cage, Roller-. D. S. Stevens. 1,698,075; Jan. 8.  
 Bearing cages, Manufacturing. L. Rouanet. 1,699,571; Jan. 22.  
 Bearing cages, Riveting ball-. G. O. Hodge. 1,726,985; Sept. 3.  
 Bearing, Car-axle. L. W. Melcher. 1,699,007; Jan. 15.  
 Bearing, Center. W. J. Tangerman. 1,697,028; Jan. 1.  
 Bearing-coil housing. F. A. Kolster. 1,722,051; July 23.  
 Bearing-coil housing. F. A. Kolster. 1,727,608; Sept. 10.  
 Bearing construction, Railway-car journal-. S. M. Weckstein. 1,720,457; July 9.  
 Bearing, Cushion side. W. L. Downey. 1,728,336; Sept. 17.  
 Bearing device for penknives. C. W. Gutzzeit. 1,734,126; Nov. 5.  
 Bearing, Double-end-thrust self-lubricating. N. Skillman. 1,739,528; Dec. 17.  
 Bearing, Double-row taper roller. H. E. Brunner. 1,722,493; July 30.  
 Bearing for car trucks, Side. J. C. Larsen. 1,717,045; June 11.  
 Bearing for gyrocompasses, Safety. L. F. Carter. 1,717,837; June 18.  
 Bearing for gyroscopic apparatus. L. F. Carter. 1,729,734; Oct. 1.  
 Bearing for journal boxes, Lubricating. G. Eveno. Re17,322; June 11.  
 Bearing for journal boxes, Lubricating. G. Eveno. 1,701,707; Feb. 12.  
 Bearing for locomotive trucks and the like. J. W. Chapman and J. J. Melley. Re17,419; Aug. 27.  
 Bearing for pasteurizers. C. W. Walker. 1,715,483; June 4.  
 Bearing for plow wheels. T. E. Henderson. 1,725,918; Aug. 27.  
 Bearing for railway cars, Side. N. F. Lane. 1,722,668; July 30.  
 Bearing for rolling mills and the like. D. Jones. 1,735,319; Nov. 12.  
 Bearing for shafts. C. F. Norton. 1,730,896; Oct. 8.  
 Bearing for spool sheaves and rollers. S. E. Cerva. 1,709,461; Apr. 16.  
 Bearing for the rolls of rolling mills. L. Jones. 1,736,601; Nov. 19.  
 Bearing for trucks and like structures, Wheel. J. B. Hart. 1,722,912; July 30.  
 Bearing for trucks, Car-axle. L. W. Melcher. 1,704,052; Mar. 5.  
 Bearing for tube frames, Center. G. D. Lockwood and J. G. Soderberg. 1,711,604; May 7.  
 Bearing housing. W. B. Flanders. 1,728,268; Sept. 17.  
 Bearing insulation for vertical generators. C. C. Brinton. 1,702,459; Feb. 19.  
 Bearing, Journal. A. P. Brush. 1,717,873; June 18.  
 Bearing journal. A. Powelski. 1,714,728; May 28.  
 Bearing, Journal. A. Powelski. 1,731,907; Oct. 15.  
 Bearing, Journal. H. Schulz. 1,709,442; Apr. 16.  
 Bearing, Journal. P. E. Wickstrom. 1,731,958; Oct. 15.  
 Bearing, Lubricating. G. A. Arnold. 1,733,931; Oct. 29.  
 Bearing lubricator, Journal-. W. A. Gieskieng. 1,697,113; Jan. 1.



- Bearing, Magnetic ball or roller. H. C. Harrison. 1,730,424; Oct. 8.
- Bearing, Matchable. H. E. Brunner. 1,722,492; July 30.
- Bearing material and making same. F. K. Bezenberger. 1,702,927; Feb. 19.
- Bearing member, Expanded steel load-. H. M. Gersman. 1,699,140; Jan. 15.
- Bearing metal and making same. R. J. Shoemaker. 1,717,469; June 18.
- Bearing, Mill-roll. A. W. Dunn. 1,724,398; Aug. 13.
- Bearing mounting. T. C. Delaval-Crow. 1,697,050; Jan. 1.
- Bearing mounting. T. C. Delaval-Crow. 1,736,966; Nov. 26.
- Bearing mounting. R. E. Wells. 1,700,188; Jan. 29.
- Bearing mounting, Adjustable bail-. A. C. Durdin, jr. 1,698,694; Jan. 8.
- Bearing mounting, Propeller-shaft-. F. A. Whitten. 1,706,505; Mar. 26.
- Bearing mounting, Roller-. L. T. Thoen. 1,706,045; Mar. 19.
- Bearing, Muffled. J. F. Webb, sr. 1,720,191; July 9.
- Bearing, Needle. R. Götz. 1,717,204; June 11.
- Bearing or carrier or conveyer, Ball. F. Beemer. 1,703,380; Feb. 26.
- Bearing, Picker-stick lug-strap. E. M. Ladeau. 1,716,178; June 4.
- Bearing plate for articulated car units, Center-. G. C. Lambe. 1,711,233; Apr. 30.
- Bearing plate for V's, Self-adjusting. R. E. Alexander. 1,712,191; May 7.
- Bearing protector, Journal-. L. N. Miller. 1,739,407; Dec. 10.
- Bearing puller, Antifriction. T. K. Stevenson. 1,713,103; May 14.
- Bearing, Pump. J. E. Bond. 1,736,426; Nov. 19.
- Bearing, Radial and end-thrust roller. E. J. Tschantz. 1,700,866; Feb. 5.
- Bearing, Railway journal. K. F. Nystrom. 1,701,010; Feb. 5.
- Bearing, Removable. P. G. Pater. 1,714,568; May 28.
- Bearing remover or extractor. V. Nielsen. 1,710,835; Apr. 30.
- Bearing-removing process. J. Hektner. 1,722,143; July 23.
- Bearing, Roll or ball. J. K. Kuylenstierna. 1,728,999; Sept. 24.
- Bearing, Roller. W. B. Bronander. 1,697,493; Jan. 1.
- Bearing, Roller. H. D. Else. 1,736,037; Nov. 19.
- Bearing, Roller. J. W. Foley. 1,699,233; Jan. 15.
- Bearing, Roller. J. W. Foley. 1,717,073; June 18.
- Bearing, Roller. H. M. Plummer, jr. 1,699,713; Jan. 22.
- Bearing, Roller. W. E. Umstadt. 1,727,576; Sept. 10.
- Bearing, Roller clutch. C. W. Weiss. 1,724,983; Aug. 20.
- Bearing roller mounting for sliding doors or the like, Ball-. M. Greitzer. 1,731,659; Oct. 15.
- Bearing, Roller side. W. A. Geiger. 1,720,175; July 9.
- Bearing, Rolling-mill. H. A. Fisher. 1,723,928; Aug. 6.
- Bearing seal, Journal-. C. C. Spreen. 1,737,777; Dec. 3.
- Bearing securing means, Axle-. T. V. Buckwalter. 1,732,256; Oct. 22.
- Bearing, Self-adjusting. E. A. Johnson. 1,716,062; June 4.
- Bearing, Self-aligning. V. J. O'Brien. 1,720,431; July 9.
- Bearing, Self-lubricating. T. B. Funk. 1,712,263; May 7.
- Bearing, Self-lubricating. F. W. Müller. 1,740,197; Dec. 17.
- Bearing, Shaft. J. Bath. 1,724,634; Aug. 13.
- Bearing, Shaft. W. E. Seastedt. 1,735,881; Nov. 19.
- Bearing, Shaft-hanger. R. P. Proffitt. 1,696,972; Jan. 1.
- Bearing, Sheet-metal-incased. G. R. Bott. 1,705,281; Mar. 12.
- Bearing shield. L. H. Hartman. 1,724,931; Aug. 20.
- Bearing, Side. A. M. Brenne. 1,698,711; Jan. 15.
- Bearing, Side. S. B. Haseltine. 1,710,212; Apr. 23.
- Bearing, Side. E. A. Laughlin and E. R. Packer. 1,737,594; Dec. 3.
- Bearing, Side. W. E. Wine. 1,736,476; Nov. 19.
- Bearing, Steel rolling-mill. J. A. Hall. 1,727,505; Sept. 10.
- Bearing structure. L. F. Howard. 1,702,543; Feb. 19.
- Bearing structure, Truck side-. M. H. Martin. 1,706,494; Mar. 26.
- Bearing support for truck bolsters, Side-. J. A. Lamont. 1,705,575; Mar. 19.
- Bearing surfaces, Apparatus for finishing aligned cylindrical. G. B. Maupin. 1,699,003; Jan. 15.
- Bearing, Thrust. A. J. Brown. 1,741,822; Dec. 31.
- Bearing, Thrust. G. Flintermann. 1,719,899; July 2.
- Bearing, Thrust. E. Fulpius. 1,735,315; Nov. 12.
- Bearing, Thrust. J. K. McIntyre. 1,712,277; May 7.
- Bearing, Thrust. F. H. Montreuil. 1,728,434; Sept. 17.
- Bearing, Thrust. A. E. Schein. 1,700,856; Feb. 5.
- Bearing, Thrust. A. E. Schein. 1,734,273; Nov. 5.
- Bearing, Vehicle wheel. E. C. Mogford. 1,719,941; July 9.
- Bearing, Wear-compensating. C. H. Sayre. 1,712,310; May 7.
- Bearing with two-piece welded cage, Rolling-member. L. Rouanet. 1,733,673; Oct. 29.
- Bearings, Apparatus for assembling. T. C. Pew. 1,723,369; Aug. 6.
- Bearings, Apparatus for casting. E. P. Kerruish. 1,726,902; Sept. 3.
- Bearings, Apparatus for lining. R. W. R. Summers. 1,717,950; June 18.
- Bearings, Assembling. H. R. Gibbons. 1,736,959; Nov. 26.
- Bearings, Assembling. L. L. Jones. 1,714,268; May 21.
- Bearings, Automatic adjustment for. F. A. Holke. 1,719,430; July 2.
- Bearings, Automatically lubricating shaft. A. E. Grant. 1,726,663; Sept. 3.
- Bearings, Cage for roller. E. O. Beardsley and W. F. Piper. 1,715,114; May 28.
- Bearings, Forming matchable. H. E. Brunner. 1,722,494; July 30.
- Bearings, Lubricating means for. E. C. Riklin. 1,725,303; Aug. 20.
- Bearings, Making. J. G. Ayers, jr. 1,715,268; May 28.
- Bearings, Making lined. J. Brinck. 1,733,110; Oct. 29.
- Bearings, Making thrust. C. W. Johnson. 1,720,791; July 16.
- Bearings, Mechanism for boring connecting-rod. H. McDonough. 1,712,628; May 14.
- Bearings, Metal blank for side. A. G. Welch. 1,734,356; Nov. 5.
- Bearings or the like, Apparatus for coating. C. W. Eggenweiler and W. J. Fiegel. 1,735,534; Nov. 12.
- Bearings, Rolling-mill. T. H. Heacock and D. W. Frease. 1,718,820; June 25.
- Bearings, Sleeve for roller. B. A. Gayman. 1,699,330; Jan. 15.
- Beater. L. Bordwell. 1,701,605; Feb. 12.
- Beater. E. D. Fahlberg. 1,705,639; Mar. 19.
- Beater. G. J. Fitzpatrick. 1,707,789; Apr. 2.
- Beater. M. Sydney. 1,718,989; July 2.
- Beater arm. J. W. Kohlhepp. 1,703,347; Feb. 26.
- Beater, Cup. L. Bordwell. 1,709,769; Apr. 16.
- Beater, Egg. L. Bordwell. 1,709,768; Apr. 16.
- Beater for agitating stock. F. L. Furbush. 1,733,456; Oct. 29.
- Beater for eggs, cream, and the like. E. M. Morgan. 1,712,156; May 7.
- Beater for thrashing machines. H. Speirs. 1,711,815; May 7.
- Beater, Motor-driven. T. B. Myers. 1,738,112; Dec. 3.
- Beating engine. W. Werner. 1,712,599; May 14.
- Beating engine. W. Werner. 1,726,873; Sept. 3.
- Beauty-parlor chair. W. Meyer. 1,721,027; July 16.
- Beauty-parlor front-entrance unit. D. Oppenheim. Des. 79,047; July 23.
- Becket. W. H. McKissick. 1,702,218; Feb. 12.
- Bed. P. P. Beby. 1,732,493; Oct. 22.
- Bed. G. and F. S. Brown. 1,730,965; Oct. 8.
- Bed. R. J. Ellsworth. 1,722,413; July 30.
- Bed. B. McIntosh. 1,731,252; Oct. 15.
- Bed. M. B. Scott. 1,724,852; Aug. 13.
- Bed. R. C. Sutton. 1,719,677; July 2.
- Bed. F. F. Thompson. 1,721,754; July 23.
- Bed, Adjustable in-a-door. C. Lofman. 1,729,950; Oct. 1.
- Bed, Adjustable sectional. S. Rothauszky and J. Schler. 1,740,906; Dec. 24.
- Bed and tent, Combination. A. Mills. 1,712,836; May 14.
- Bed and tent, Combined. J. Train. 1,731,913; Oct. 15.
- Bed and the like, Day. G. Herz. 1,721,559; July 23.
- Bed and trunk, Combined. S. Ford. 1,715,748; June 4.
- Bed and wardrobe, Combined. S. Ford. 1,715,651; June 4.
- Bed armchair, Convertible. V. Albano. 1,706,948; Mar. 26.
- Bed attachment for vehicles. T. L. Carpenter and R. L. Zachary. 1,715,221; May 28.
- Bed attachment, Hospital-. A. H. Anderson and G. L. Waters. 1,711,007; Apr. 30.
- Bed, Automatic tourist. C. Heumader. 1,722,916; July 30.
- Bed, Automobile. W. C. Lundstrom. 1,728,422; Sept. 17.
- Bed, Automobile. J. L. Richardson. 1,714,891; May 28.
- Bed, Automobile. J. L. Richardson. 1,715,308; May 28.
- Bed, Automobile. A. Thien and A. Brosnatch. 1,702,284; Feb. 19.
- Bed, Automobile. M. W. Tilney. 1,741,592; Dec. 31.
- Bed, Automobile. J. B. Young. 1,724,162; Aug. 13.
- Bed, Baby. A. G. Hackney. 1,710,823; Apr. 30.
- Bed bottom. E. L. Klos. 1,732,814; Oct. 22.
- Bed bottom. J. Rooks. 1,716,243; June 4.
- Bedchair. E. P. Farrell. 1,734,943; Nov. 5.
- Bed, Collapsible. H. P. Breitenbach, E. J. O'Neill, and S. T. Kay. 1,710,858; Apr. 30.
- Bed, Collapsible camp. W. S. Rynearson. 1,737,947; Dec. 3.
- Bed, Combination single and double. J. Martin. 1,732,522; Oct. 22.
- Bed, Combination single and double couch. J. Martin. 1,717,516; June 18.
- Bed construction. W. J. Duvall. 1,736,875; Nov. 26.
- Bed construction. W. A. Matheson. 1,725,404; Aug. 20.
- Bed construction, Foldable. C. C. Chittim. 1,729,986; Oct. 1.
- Bed, Convertible chair. C. C. Kusterer. 1,741,192; Dec. 31.
- Bedcover-holding device. B. A. Moeller. 1,709,275; Apr. 16.
- Bed, Davenport. C. B. Hall. 1,728,488; Sept. 17.
- Bed, Davenport. L. Larsen. 1,697,604; Jan. 1.
- Bed, Davenport. G. W. Syster. 1,738,156; Dec. 3.
- Bed, Davenport. A. L. Warner. 1,722,612; July 30.
- Bed, Day. C. Hultgren. 1,740,598; Dec. 24.
- Bed, Day. J. Martin. 1,737,604; Dec. 3.
- Bed, Disappearing. E. H. Bean. 1,724,066; Aug. 13.
- Bed, Doll's. J. C. Scoggins. 1,700,338; Jan. 29.
- Bed, Door. E. Cocks. 1,725,752; Aug. 27.



- Bed end or similar article. J. Nisenson. Des. 78,645; May 28.
- Bed. Extension. C. J. Kindel and H. W. Lundberg. 1,704,858; Mar. 12.
- Bed, Foldable day. F. S. Inco. 1,736,158; Nov. 19.
- Bed, Folding. E. Cocks. 1,707,509; Apr. 2.
- Bed, Folding. L. D. Dobbs. 1,705,910; Mar. 19.
- Bed, Folding. D. Hanauer. 1,718,923; June 25.
- Bed, Folding. C. F. Kolb. 1,724,075; Aug. 27.
- Bed, Folding. C. F. Kolb. 1,732,476; Oct. 22.
- Bed, Folding. N. Sinclair. 1,714,642; May 28.
- Bed, Folding. J. B. Wells. 1,718,506; June 25.
- Bed for apartments. A. W. Keichline. 1,736,653; Nov. 19.
- Bed for vehicles. G. A. Montgomery. 1,714,613; May 28.
- Bed, Fracture. H. D. Pownall. 1,709,153; Apr. 16.
- Bed-frame connection. L. Lowy. 1,707,230; Apr. 2.
- Bed frame, Orthopedic or fracture. G. A. Schumacher and H. W. Schumacher. 1,699,026; Jan. 15.
- Bed, Fresh-air. C. C. Bland. 1,720,621; July 9.
- Bed, Hospital. W. F. MacFee. 1,723,288; Aug. 6.
- Bed, Hospital. B. McIntosh. 1,731,251; Oct. 15.
- Bed, Hospital. G. Robinson. 1,706,545; Mar. 26.
- Bed, Hospital. R. O. Stevenson. 1,697,027; Jan. 1.
- Bed, Invalid. P. Gadbois. 1,698,754; Jan. 15.
- Bed, Invalid. W. M. Loxley. 1,709,137; Apr. 16.
- Bed, Invalid. J. L. Staufenbiel. 1,714,111; May 21.
- Bed mounting. J. Bengtson. 1,727,025; Sept. 3.
- Bed, Non-tipping roll-around. C. Lofman. 1,736,203; Nov. 19.
- Bed pad. D. W. Cameron. 1,701,662; Feb. 12.
- Bedpan. M. D. Sears. 1,714,572; May 28.
- Bed, Portable closet. F. S. Inco. 1,714,876; May 28.
- Bed, Portable folding. N. Sinclair. 1,739,805; Dec. 17.
- Bedpost or similar article. K. J. Spyker and T. G. Kindel. Des. 79,535; Oct. 1.
- Bed, Recess. C. F. Kolb. 1,735,006; Nov. 12.
- Bed, Roll-away. C. L. MacIntosh. 1,708,630; Apr. 9.
- Bed sections, Connector for. M. Fox. 1,742,139; Dec. 31.
- Bedside table. G. G. Ulmer, Jr. 1,737,441; Nov. 26.
- Bed, Sofa. R. Coopersmith. 1,706,054; Mar. 19.
- Bedspring. P. Pezzella. Des. 77,498; Jan. 15.
- Bed spring. C. H. Gail. 1,726,061; Aug. 27.
- Bedspring. J. P. Hise. 1,742,035; Dec. 31.
- Bedspring. C. M. Way. 1,698,863; Jan. 15.
- Bedspring brace. R. Stanert. 1,720,010; July 9.
- Bedspring-edge-supporting device. J. Martin. 1,699,981; Jan. 22.
- Bed-spring fabric. R. B. Hosner. 1,741,022; Dec. 24.
- Bedspring guard. M. Goldberg. 1,708,878; Apr. 9.
- Bedspring stay device. F. L. Lanzy. 1,718,964; July 2.
- Bedspring structure. W. O. Lathrop. 1,714,227; May 21.
- Bed stay. J. H. De Boer. 1,734,616; Nov. 5.
- Bedstead. F. Kusterle. 1,732,237; Oct. 22.
- Bedstead. W. Lenox. 1,734,218; Nov. 5.
- Bedstead. H. Rodstein, D. Book, and I. Nathanson. 1,709,374; Apr. 16.
- Bedstead. H. Rubin. 1,715,342; May 28.
- Bedstead, Extensible. D. C. Travis. 1,721,889; July 23.
- Bedstead rail. M. F. Bayer. 1,717,863; June 18.
- Bedsteads. Service attachment for. C. P. Buffum. 1,707,706; Apr. 2.
- Bedsteads, Tank support for hospital. F. Kusterle and C. H. Busch. 1,704,979; Mar. 12.
- Bed table. G. Richards. 1,725,370; Aug. 20.
- Bed, Vertically-pivoted wall. N. Sinclair. 1,740,789; Dec. 24.
- Bed with bedpan administration means, Hospital. C. H. Horst. 1,707,464; Apr. 2.
- Bedding holder for upending bedsteads. D. C. Travis and W. A. Vollmer. 1,698,077; Jan. 8.
- Bedding, Ventilated. S. W. Brown. 1,727,961; Sept. 10.
- Beef-chilling rack. P. C. Smith and J. C. Agar. 1,721,139; July 16.
- Beef-chilling rack and method. J. E. Covey. 1,724,006; Aug. 13.
- Beeswax, Bleaching. P. Mahler. 1,739,706; Dec. 17.
- Beetling engine. J. W. Haughton. 1,710,824; Apr. 30.
- Beet loader. F. W. Amen. 1,726,604; Sept. 3.
- Beet loader. S. Terao. 1,725,112; Aug. 20.
- Beet-thinning machine. H. H. Boettcher. 1,720,409; July 9.
- Beet-thinning machine. H. H. Boettcher. 1,732,830; Oct. 22.
- Beet topper. O. H. Hansen. 1,718,954; July 2.
- Beet-topping machine. S. F. Parker. 1,714,617; May 28.
- Bell and burglar alarm, Door. J. D. Philpaw. 1,717,580; June 18.
- Bell, Door-knob. J. C. Hopkins. 1,712,039; May 7.
- Bell, Mechanically-operated. L. W. and E. H. Winnall. 1,733,175; Oct. 29.
- Bell-operating mechanism. J. A. Gabriel. 1,700,289; Jan. 29.
- Bellows and manufacturing the same, Flexible. W. L. R. Emmet. 1,717,196; June 11.
- Bellows construction. L. M. Persons. 1,726,584; Sept. 3.
- Bellows, Making. F. K. Bezenberger. 1,698,210; Jan. 8.
- Bell ringer. A. L. Bridgman. 1,707,972; Apr. 9.
- Bell-socket spear. F. J. Hinderliter. 1,721,021; July 16.
- Belt. G. B. Stover. 1,719,145; July 2.
- Belt. W. H. Tobey. 1,698,035; Jan. 8.
- Belt. J. L. Wolf. 1,737,782; Dec. 3.
- Belt and connector. W. Geist. 1,706,354; Mar. 19.
- Belt and making the same, Reinforced endless. J. R. Gammeter. 1,709,209; Apr. 16.
- Belt and the like, Electrically-heated. W. D. Graham and P. C. Palfyn. 1,736,590; Nov. 19.
- Belt box. H. A. Peter. 1,697,880; Jan. 8.
- Belt, Buckle. W. J. Butler. 1,723,841; Aug. 6.
- Belt, Cartridge. G. F. French. 1,723,692; Aug. 6.
- Belt, Catamenial. K. Schultz. 1,733,429; Oct. 29.
- Belt clamp. H. D. Collins. 1,710,297; Apr. 23.
- Belt clamp. J. R. Young. 1,723,114; Aug. 6.
- Belt control. T. Bosko and C. Wilkins. 1,706,520; Mar. 26.
- Belt conveyer. E. Cuddihy. 1,705,558; Mar. 19.
- Belt conveyer. A. Hopkinson. 1,708,885; Apr. 9.
- Belt, dressing and making the same. A. E. Becker. 1,721,762; July 23.
- Belt drive. A. R. Curtis. 1,704,532; Mar. 5.
- Belt, Driving. A. L. Freedlander. 1,700,999; Feb. 5.
- Belt, Driving. G. L. Reeves. 1,731,827; Oct. 15.
- Belt for personal wear. M. Luftig. 1,738,107; Dec. 3.
- Belt for personal wear. E. S. Mix. 1,707,562; Apr. 2.
- Belt for tractors, conveyers, and the like, Endless. E. O. Carvin. 1,730,059; Oct. 1.
- Belt for use with girdles and corset brassiere combinations, Uplift. S. W. and H. M. McCormick. 1,722,759; July 30.
- Belt, Garment-supporting. M. Starmer. 1,703,968; Mar. 5.
- Belt guide. G. Le Rud. 1,741,852; Dec. 31.
- Belt idler. M. J. Pos, E. S. Stadelman, and J. J. Fairbairn. 1,709,152; Apr. 16.
- Belt joint and making the same. E. G. Kimmich. 1,735,686; Nov. 12.
- Belt lacing. C. B. Larson. 1,740,181; Dec. 17.
- Belt-lacing device. G. E. Purple. 1,711,652; May 7.
- Belt-lacing machine. C. B. Larson. 1,740,180; Dec. 17.
- Belt-lacing machine. G. E. Purple. 1,710,894; Apr. 30.
- Belt, Life. J. F. Kennedy. 1,704,975; Mar. 12.
- Belt, Life-preserving and swimming. C. H. A. Petersen. 1,709,873; Apr. 23.
- Belt, Link. P. Agrillo. 1,724,633; Aug. 13.
- Belt, Link. R. Chavarr. 1,720,166; July 9.
- Belt, Obesity. I. M. Pease. 1,736,128; Nov. 19.
- Belt or strap and forming the same. W. J. Tallman. 1,705,790; Mar. 19.
- Belt, Safety. C. F. Jacobs. 1,721,516; July 23.
- Belt-sanding machine, Combination adjustable. A. Nord. 1,729,357; Sept. 24.
- Belt stabilizer. F. de Alba, B. 1,726,387; Aug. 27.
- Belt terminal, Window-washer's safety-. J. Hagen. 1,705,447; Mar. 12.
- Belt tightener. G. W. Jacques. 1,732,604; Oct. 22.
- Belt tightener. P. E. Mahaffey. 1,737,467; Nov. 26.
- Belt tightener for sawmill feed mechanism. D. F. Good. 1,707,119; Mar. 26.
- Belt tightener. Motor-attachment. P. F. Schryer. 1,701,732; Feb. 12.
- Belt-tightening device. A. Aldrich. 1,717,359; June 18.
- Belt-tightening device, Worm-drive. H. F. Wilhelm. 1,739,053; Dec. 10.
- Belt, Tractor. R. O. Hendrickson. 1,722,795; July 30.
- Belt, Transmission. K. H. Chilton. 1,729,329; Sept. 24.
- Belt tripper. W. K. Liggett. 1,714,032; May 21.
- Belt of woven fibrous material. E. W. Kohlschütter. 1,728,567; Sept. 17.
- Belts, Apparatus for making endless. W. P. Vachon. 1,715,964; June 4.
- Belts, Manufacturing V-type. R. Roderwald. 1,701,507; Feb. 12.
- Bench. See—
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|-------------------------|-----------------------|
| Battery-charging bench. | Metal bench.          |
| Collapsible bench.      | Piano bench.          |
| Combination bench.      | Piano or organ bench. |
| Kneeling bench.         | Workbench.            |
- Bench and table, Concrete. L. G. Haase. 1,713,225; May 14.
- Bench chest, Nursery. E. S. Duke. Des. 78,508; May 14.
- Bench standard. J. J. Balk. Des. 78,604; May 28.
- Bench standard. B. Hasenstab. Des. 79,028; July 23.
- Bench standard. G. E. Villaret. Des. 78,670-1; May 28.
- Bench structure, Folding. E. W. Cummings. 1,724,457; Aug. 13.
- Bend for fin tubes, Return. E. A. Dewald. 1,710,811; Apr. 30.
- Bending and clinching machine. B. L. Le Roy. 1,720,133; July 9.
- Bending and forming machine. C. G. Cronwall. 1,722,178; July 23.
- Bending apparatus. H. M. Hessenbruch. 1,740,091; Dec. 17.
- Bending bars and the like. A. T. Yates. 1,697,896; Jan. 8.
- Bending machine. H. H. Bunker. 1,697,947; Jan. 8.
- Bending machine. A. T. Carozza and J. H. Smith. 1,703,261; Feb. 26.
- Bending machine. G. H. Case. 1,742,056; Dec. 31.
- Bending machine. F. Foreman. 1,711,524; May 7.
- Bending machine. H. P. L. Laussucq. 1,720,335; July 9.
- Bending machine. O. Schachtel. 1,737,097; Nov. 26.
- Bending machine. A. Trusch. 1,702,856; Feb. 19.
- Bending tools, pipes, and the like, Device for. A. Oskamp. 1,707,991; Apr. 9.
- Bending structural shapes, Method of and apparatus for. G. R. McAleenan. 1,721,964; July 23.
- Benzanthrone compounds, Making. B. Stein, W. Trautner, and R. Berliner. 1,713,565; May 21.



- Benzanthrone series and making same, Derivatives of the. O. Braunsdorf, E. Holzapfel, and P. Nawiasky. 1,712,646; May 14.
- Benzanthrone series and preparing same, Condensation product of the. G. Kränzlein and M. Corell. 1,714,677; May 28.
- Benzanthrones substituted in the bz. nucleus and preparing the same. G. Kränzlein, H. Vollmann, H. Greune, and A. Wolfram. 1,705,868; Mar. 19.
- Benzidine and derivatives, Production of. R. A. Nelson. 1,718,373; June 25.
- Benzonitrile and other aryl cyanides, Production of. R. B. Trusler. 1,702,711; Feb. 19.
- Berry box. J. W. Halstead. 1,715,454; June 4.
- Berth construction. C. C. Broome and R. M. Meyer. 1,720,116; July 9.
- Beryllium oxide, Making. R. C. Price and H. S. Cooper. 1,710,840; Apr. 30.
- Bessemer process of making steel. F. W. Davis. 1,709,389; Apr. 16.
- Beta-naphthol-1-sulphonic acid, Production of. A. E. Parmelee. 1,716,082; June 4.
- Beveling the edges off glass plates. K. A. Weber. 1,728,647; Sept. 17.
- Beverage and liquid, Cereal. H. Heuser. 1,724,021; Aug. 13.
- Beverage and preparing the same. C. Horix. 1,741,773; Dec. 31.
- Beverage maker and dispenser. F. Rosenstein and E. Bendheim. 1,701,194; Feb. 5.
- Beverage mixer. J. H. Karlson. 1,702,512; Feb. 19.
- Beverage mixing and serving set. R. Glendinning. 1,725,265; Aug. 20.
- Berages, Manufacture of. H. Heuser. 1,717,685; June 18.
- Beverages of reduced alcohol content, Manufacture of fermented. H. Heuser. 1,720,329; July 9.
- Bias cutter. M. Castricum. 1,737,146; Nov. 26.
- Bias-cutting machines, Safety appliance for. L. Wetmore. 1,724,330; Aug. 13.
- Bias strips, Method and apparatus for cutting. T. Midgley. 1,730,585; Oct. 8.
- Bibb, Cork-lined gasoline. P. Mueller. 1,700,207; Jan. 29.
- Bibbet. H. M. and S. W. McCormick. 1,719,068; July 2.
- Bicycle. M. E. Roe. 1,703,174; Feb. 26.
- Bicycle, Sidewalk. J. L. Schwartz. 1,710,194; Apr. 23.
- Bicycle, velocipede, or the like. D. C. Bement. 1,739,628; Dec. 17.
- Bicycles, tricycles, and similar machines, Varying changes of the speed in. L. Paludet. 1,719,671; July 2.
- Bifurcator. G. de Bothezat. 1,702,632; Feb. 19.
- Billboard. W. D. Lambert. Des. 77,696; Feb. 12.
- Billboard, Sectional luminous animated outdoor. F. A. Gritt. 1,715,129; May 28.
- Billet-gauging tip. G. L. Walker. 1,726,327; Aug. 27.
- Bill fold. W. R. Buxton. 1,741,009; Dec. 24.
- Bill fold. C. L'Enfant. 1,737,972; Dec. 3.
- Bill fold. W. Scheerer. 1,707,025; Mar. 26.
- Bill fold and coin holder. F. K. Alstrand. 1,723,117; Aug. 6.
- Bill-producing apparatus for meters. J. J. Noonan. 1,737,863; Dec. 3.
- Billiard cue. H. G. Barrett. 1,702,292; Feb. 19.
- Billiard cue. H. G. Barrett. 1,705,353; Mar. 12.
- Billiard-table construction. I. Seal. 1,725,215; Aug. 20.
- Billiard tables, Construction of. G. L. Marcum. 1,719,187; July 2.
- Billing machine. H. A. Footbrar. 1,719,176; July 2.
- Billing-machine aligner. E. K. Bottle. 1,733,330; Oct. 29.
- Billing machines and the like, Strip-aligning device for. L. F. Hagemann. 1,734,574; Nov. 5.
- Billing sheet. E. Z. Lewis. 1,731,017; Oct. 8.
- Billy, Policeman's. H. Miller. 1,717,932; June 18.
- Bin: See—  
     Coal bin. Laundry bin.  
     Coke bin. Mixing bin.  
     Grain bin. Steel nail bin.  
     Household bin. Storage bin.
- Bin and elevator, Combined collapsible. O. Seefeld. 1,732,487; Oct. 22.
- Bin delivery control. C. R. Gottschall and H. H. Pike. 1,720,176; July 9.
- Bin divider. R. A. Edgren. 1,698,946; Jan. 15.
- Bin gate. C. A. McCollum and J. McIntosh. 1,734,686; Nov. 5.
- Bin-gate-actuating device, Power-driven. A. J. Boynton. 1,738,939; Dec. 10.
- Bin system. D. Baker and W. S. Myers. 1,717,361; June 18.
- Binder. F. J. Kline. 1,707,227; Apr. 2.
- Binder. F. J. Kraemer. 1,737,853; Dec. 3.
- Binder. A. M. Martin. 1,722,812; July 30.
- Binder. G. G. Mevl. 1,728,430; Sept. 17.
- Binder. L. A. Phillips. 1,733,238; Oct. 29.
- Binder. W. F. Wolf. 1,714,335; May 21.
- Binder, Carbon. J. Quartz. 1,738,153-4; Dec. 3.
- Binder, Corn. G. H. Holtz. 1,741,938; Dec. 31.
- Binder device for awnings, curtains, and the like. W. G. Dunn. 1,729,158; Sept. 24.
- Binder, Edge. H. B. Houston. 1,737,243; Nov. 26.
- Binder folder. H. B. McClure. 1,731,720; Oct. 15.
- Binder for binding an aggregate and manufacturing same. S. W. Carpenter and G. N. White. 1,724,393; Aug. 13.
- Binder for laminated mica products. T. Okuri. 1,707,277; Apr. 2.
- Binder for loose-leaf books and like articles. W. A. Maas and G. B. Sykes. 1,733,503; Oct. 29.
- Binder for priming compounds. L. W. Jordan. 1,718,358; June 25.
- Binder for sheet materials. G. M. Daniels. 1,697,053; Jan. 1.
- Binder for textile machinery. H. Pulster. 1,727,783-4; Sept. 10.
- Binder, Grain. C. P. Houtsma. 1,714,025; May 21.
- Binder, Liquid-core. W. R. Pate and J. A. Gitzen. 1,723,982; Aug. 6.
- Binder, Loose-leaf. E. Aberle. 1,710,331; Apr. 23.
- Binder, Loose-leaf. L. Barnes. 1,738,223; Dec. 3.
- Binder, Loose-leaf. R. E. Beebe, jr. 1,735,031; Nov. 12.
- Binder, Loose-leaf. J. Belohlavek. 1,741,909; Dec. 31.
- Binder, Loose-leaf. R. E. Bohrer. 1,729,563; Sept. 24.
- Binder, Loose-leaf. J. E. Brewer. 1,711,987; May 7.
- Binder, Loose-leaf. C. P. Butz. 1,720,997; July 16.
- Binder, Loose-leaf. I. Conrad. 1,734,898; Nov. 5.
- Binder, Loose-leaf. F. H. Crump. 1,710,450; Apr. 23.
- Binder, Loose-leaf. J. C. Dawson. 1,726,810; Sept. 3.
- Binder, Loose-leaf. J. C. Dawson. 1,731,296; Oct. 15.
- Binder, Loose-leaf. J. C. Dawson. 1,731,454; Oct. 15.
- Binder, Loose-leaf. N. C. De Loss. 1,700,196; Jan. 29.
- Binder, Loose-leaf. N. C. De Loss. 1,703,576; Feb. 26.
- Binder, Loose-leaf. C. J. Dunbar. 1,709,843; Apr. 23.
- Binder, Loose-leaf. C. H. Franz, jr. 1,733,956; Oct. 29.
- Binder, Loose-leaf. E. F. Graf and G. L. Vander Veen. 1,715,653; June 4.
- Binder, Loose-leaf. H. E. Hulseman. 1,731,927; Oct. 15.
- Binder, Loose-leaf. H. W. Julius. 1,727,108; Sept. 3.
- Binder, Loose-leaf. J. Kahn. 1,738,585; Dec. 10.
- Binder, Loose-leaf. A. G. Lotter. 1,727,511; Sept. 10.
- Binder, Loose-leaf. A. G. Lotter. 1,738,305; Dec. 3.
- Binder, Loose-leaf. D. S. McChesney. 1,720,847; July 16.
- Binder, Loose-leaf. D. S. McChesney. 1,737,470; Nov. 26.
- Binder, Loose-leaf. H. C. Miller. Rel'192; Jan. 15.
- Binder, Loose-leaf. H. C. Miller. 1,713,544; May 21.
- Binder, Loose-leaf. H. Mills. 1,718,171; June 18.
- Binder, Loose-leaf. G. W. Newman. 1,732,584; Oct. 22.
- Binder, Loose-leaf. T. Rengmann. 1,711,746; May 7.
- Binder, Loose-leaf. J. C. Strickler and O. Schwall. 1,697,374; Jan. 1.
- Binder, Loose-leaf. C. G. Van Buren. 1,736,558; Nov. 19.
- Binder, Loose-leaf. R. M. Van Valkenburgh. 1,701,517; Feb. 12.
- Binder, Loose-leaf. R. M. Van Valkenburgh. 1,710,492; Apr. 23.
- Binder, Loose-leaf. W. Vennard. 1,732,624; Oct. 22.
- Binder, Loose-leaf. R. M. Watson. 1,724,329; Aug. 13.
- Binder, Loose-leaf. R. M. Watson. 1,740,936; Dec. 24.
- Binder, Loose-leaf. W. F. Wolf. 1,731,156; Oct. 8.
- Binder, Loose-leaf post. C. A. Finley. 1,730,130; Oct. 1.
- Binder, Paper. A. Fricker. 1,696,908; Jan. 1.
- Binder, Permanent. R. F. Power. 1,703,245; Feb. 26.
- Binder, Permanent loose-leaf. L. Barnes. 1,708,492; Apr. 9.
- Binder, Prong. G. P. Wigginton. 1,701,090; Feb. 5.
- Binder, Record. E. W. Jackson. 1,736,711; Nov. 19.
- Binder, Record. G. W. Newman. 1,699,907; Jan. 22.
- Binder reel. E. M. Peterson. 1,715,306; May 28.
- Binder, Ring. A. G. Lotter. 1,724,407; Aug. 13.
- Binder, Screen-wire. E. A. Neiberger. 1,698,145; Jan. 8.
- Binder, Sewing-machine. H. Gensheimer. 1,726,556; Sept. 3.
- Binder strip. W. G. Dunn. 1,729,159; Sept. 24.
- Binder, Temporary. E. Davidson. 1,729,331; Sept. 24.
- Binder, Temporary. E. Davidson. 1,737,109; Nov. 26.
- Binder, Temporary. G. H. Moore. 1,721,829; July 23.
- Binder, Wire package. A. J. Gerrard. 1,739,962; Dec. 17.
- Binder, Wire package. A. J. Gerrard and P. Wright. 1,705,087; Mar. 12.
- Binders, Bundle holder for corn. R. A. Head. 1,735,275; Nov. 12.
- Binders, Stocking attachment for. H. Schenk. 1,720,006; July 9.
- Binding. A. Aaron and S. Benjamin. 1,742,117; Dec. 31.
- Binding clamp. C. N. Weaver. 1,721,799; July 23.
- Binding for shoe uppers and attaching same. E. P. Merriam. 1,712,394; May 7.
- Binding for stitched books. M. Aimon. 1,713,363; May 14.
- Binding means, Filament. W. I. Relyea. 1,719,852; July 9.
- Binding means for the surface coverings of furniture. E. J. Card. 1,705,152; Mar. 12.
- Binding means for the surface coverings of furniture. A. J. E. Larson. 1,705,156; Mar. 12.
- Binding-mechanism, Loose-leaf. R. F. Power. 1,707,093; Mar. 26.
- Binding mechanism, Loose-leaf book. F. N. Lang. 1,732,444; Oct. 22.
- Binding packing cases and similar objects by means of hoops, Apparatus for. G. Halter. 1,712,037; May 7.
- Binding post. H. H. Eby. 1,699,958; Jan. 22.
- Binding strip. W. O. Jones. 1,721,629; July 23.
- Bird-cage accessory. P. H. Qualmann. 1,718,432; June 25.
- Bird-cage body. R. S. Oliver. Des. 79,097; July 30.
- Bird-cage-making machine. A. M. Kroczek. 1,706,853; Mar. 26.
- Bird-cage stand. R. L. Tullis. 1,719,493; July 2.
- Bird cages, Making. A. M. Kroczek. 1,706,854; Mar. 26.
- Bird trap. R. C. Kelley. 1,731,168; Oct. 8.
- Bird trap. W. E. Morris. 1,729,275; Sept. 24.



- Bis-aminoaryl anthrone and anthracene derivatives. K. Schirmacher, B. Stein, and K. Stenger. 1,724,045; Aug. 13.
- Biscuit box. K. H. Crowell. 1,718,277; June 25.
- Biscuit, Dog. L. C. Lord. Des. 77,616; Jan. 29.
- Biscuit facing and stacking machine. W. H. Hungerford. 1,702,901; Feb. 19.
- Biscuit-facing machine. W. H. Hungerford. 1,700,438; Jan. 29.
- Biscuit-making machinery. E. M. Crosland. 1,739,504; Dec. 17.
- Biscuits and the like, Manufacture of. L. Rondolin. 1,720,609; July 9.
- Bit: See—
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|----------------------|---------------------|
| Boring bit.          | Drilling bit.       |
| Carving-machine bit. | Expansive bit.      |
| Cone bit.            | Roller bit.         |
| Core bit.            | Rotary bit.         |
| Disk bit.            | Wire-threading bit. |
| Drill bit.           |                     |
- Bit. J. H. Swift and L. Dalldorf. 1,726,049; Aug. 27.
- Bit box, Mining-machine. W. A. Lyttle and L. C. Haggard. 1,725,288; Aug. 20.
- Bit for boring wells, Drill. C. E. Lang. 1,739,846; Dec. 17.
- Bit gauge. C. C. Morgan. 1,730,086; Oct. 1.
- Bite-block transfer instrument. F. G. Hawsworth. 1,703,105; Feb. 26.
- Bituminous composition and making same. L. Kirschbraun. 1,738,906; Dec. 10.
- Bituminous composition and producing the same. C. N. Forrest. 1,711,727; May 7.
- Bituminous composition and the manufacture thereof. G. C. Warren. 1,740,212; Dec. 17.
- Bituminous product. M. R. Cone. 1,698,878; Jan. 15.
- Blackboard. J. L. Lingle. 1,710,630; Apr. 23.
- Blackboard, Metal. R. S. Conrow. 1,708,082; Apr. 9.
- Blade. J. M. Luers. 1,738,912; Dec. 10.
- Blade, Air-cleaner. H. G. Kamrath. 1,729,390; Sept. 24.
- Blade and holder therefor. M. B. Behrman. 1,725,047; Aug. 20.
- Blade carrier. L. J. Freiss. 1,719,217; July 2.
- Blade cutter, Inserted. F. P. Miller. 1,736,273; Nov. 19.
- Blade de-edging and receiving device. E. R. Wharton. 1,712,182; May 7.
- Blade fastening. H. J. Hanzlik. 1,720,729; July 16.
- Blade fastening. Turbine. J. L. Ray. 1,705,585; Mar. 19.
- Blade for automatically-lubricated bearings. G. Eveno. 1,722,129; July 23.
- Blade for propellers, ventilating fans, and the like. A. Cerivol. 1,705,438; Mar. 12.
- Blade for shears and the like, Cutting. G. Browning. 1,697,304; Jan. 1.
- Blade holder with locking device, Interchangeable. I. H. Frank. 1,728,992; Sept. 24.
- Blade package. I. N. Zeiler. 1,734,551; Nov. 5.
- Blade protector, Razor. H. D. Kremer. 1,733,971; Oct. 29.
- Blade, Sycathe. L. Jarvis. 1,727,648; Sept. 10.
- Blade-sharpening machine. A. A. Kohlmler. 1,734,524; Nov. 5.
- Blancher. F. D. Chapman. 1,732,552; Oct. 22.
- Blanching celery and other green vegetables. R. B. Harvey. 1,721,595; July 23.
- Blank for and making gear sectors. E. C. Myers. 1,724,957; Aug. 20.
- Blank for side bearing for railway cars. G. S. Crawford. 1,718,217; June 25.
- Blank manufacture and machine therefor. H. A. Eggerss. 1,723,414; Aug. 6.
- Blanket-fastening means for impression cylinders. L. A. Schmidt. 1,739,045; Dec. 10.
- Blanket, Lineman's. F. L. Haushalter. 1,728,545; Sept. 17.
- Blanks for folded blank boxes, Method of and apparatus for forming the. J. J. Gannon and F. W. Foerster. 1,723,149; Aug. 6.
- Blanks for making seamless tubes, Forming. R. C. Stiefel. 1,712,972; May 14.
- Blanks, Making. T. E. Murray, jr. 1,709,185; Apr. 16.
- Blanks, Method of and apparatus for shaping. J. S. Stokes. 1,724,529; Aug. 13.
- Blast apparatus, Sand-. C. E. Billings. 1,710,604; Apr. 23.
- Blast device, Sand-. C. A. Dreisbach. 1,727,027; Sept. 3.
- Blast furnace. J. P. Dovel. 1,703,517-8; Feb. 26.
- Blast furnace. C. L. T. Edwards. 1,727,100; Sept. 3.
- Blast furnace. Y. Murakami. 1,735,293; Nov. 12.
- Blast furnace. W. A. Stuart. Re17,325; June 11.
- Blast-furnace tuyere. E. H. Holzworth. 1,738,901; Dec. 10.
- Blast machine, Sand-. G. C. Fatscher and C. E. Billings. 1,710,612; Apr. 23.
- Blasting machinery, Sand-. F. H. Wolever. 1,723,112; Aug. 6.
- Bleacher, Knockdown. G. A. Annand and E. H. Kay. 1,715,885; June 4.
- Bleaching and improving milling products, Process of and composition for. V. R. Kokatnur and S. G. Turnbull. 1,722,501; July 30.
- Bleaching chemicals from fruit or the like, Removing. S. Blumenthal. 1,717,869; June 18.
- Bleaching machine. L. P. Tenca. 1,735,146; Nov. 12.
- Bleaching Montan wax. W. L. Pungs. 1,699,250; Jan. 15.
- Bleaching of fabrics in an open state, Machine for the. C. Taylor. 1,729,021; Sept. 24.
- Bleaching of pulp. L. Bradley and E. P. McKeefe. 1,705,897; Mar. 19.
- Bleaching paper pulp, Method of and apparatus for. J. Ruths. 1,700,647; Jan. 29.
- Bleaching pulp, Method and apparatus for. A. D. Merrill. 1,734,632; Nov. 5.
- Bleaching raw heavy spar. K. Ebers. 1,709,612; Apr. 16.
- Bleeder, Tubing. E. V. Crowell. 1,699,052; Jan. 15.
- Bleeder, Tubing. E. V. Crowell. 1,704,383; Mar. 5.
- Blending textile fibers, Process of and apparatus for. D. Stevens. 1,717,633; June 18.
- Blind. L. G. Shook. 1,708,636; Apr. 9.
- Blind. J. Stuart y Molina. 1,718,754; June 25.
- Blind for halters. J. J. Booth. 1,700,280; Jan. 29.
- Blinds, Tilting-member assembly for venetian. J. E. B. Daniel and E. Louthan. 1,727,699; Sept. 10.
- Block: See—
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|------------------------|----------------------|
| Air-cooled block.      | Knife block.         |
| Baling block.          | Meter-testing block. |
| Building block.        | Nailing block.       |
| Butcher's block.       | Pulley block.        |
| Chock block.           | Scrap block.         |
| Clicker block.         | Sheave block.        |
| Corbel block.          | Starting block.      |
| Die block.             | Tackle block.        |
| Discharge block.       | Terminal block.      |
| Disconnecting block.   | Throat block.        |
| Electrical fuse block. | Toy building block.  |
| Fuse block.            | Traveling block.     |
| Hat block.             | Tuyere block.        |
| Insulating block.      | Wedge block.         |
| Junction block.        | Wheel block.         |
- Block and making same, Cinder. E. Luzzatti and H. M. Schloss. 1,711,027; Apr. 30.
- Block and wall, Building. H. Brooke. 1,730,720; Oct. 8.
- Block and wall construction, Building. C. Koster. 1,714,676; May 28.
- Block and wall construction, Reinforced adobe. C. C. Thompson. 1,702,096; Feb. 12.
- Block filling and molding apparatus. F. J. Straub. 1,709,755; Apr. 16.
- Block for holding printing plates. W. A. Mathers. 1,716,075; June 4.
- Block for sheets of abrasive material. I. J. Johnson. 1,724,661; Aug. 13.
- Block for steel studding and the like. C. Collins. 1,739,824; Dec. 17.
- Block for trip lines and the like. O. B. Bjorge. 1,713,864; May 21.
- Block mold, Multiple-. C. A. Covey. 1,697,347; Jan. 1.
- Block mold, Plastic. J. W. Henry. 1,721,514; July 23.
- Block-molding machine. J. W. Henry. 1,715,920; June 4.
- Block or tile making machine or the like. A. G. McIntyre. 1,711,359; Apr. 30.
- Block-printing machine. A. F. McCollum. 1,725,717; Aug. 20.
- Block structure, Segmental clay. F. H. Meier. 1,701,817; Feb. 12.
- Block-turning machine, Automatic. C. G. Wernmark. 1,727,846; Sept. 10.
- Blocking and cultivating machine for plants. O. C. Hanson. 1,718,818; June 25.
- Blocks, Forming cementitious. M. Hoffman. 1,704,193; Mar. 5.
- Blood coagulant. M. Bye. 1,697,162; Jan. 1.
- Blood-extracting device. A. E. Smith. 1,718,590; June 25.
- Blood-pressure indicator. C. E. Dressler. 1,705,966; Mar. 19.
- Blood-pressure-recording instrument. R. Tvestmann. 1,716,472; June 11.
- Blood-transfusion machine. W. G. Coles. 1,703,389; Feb. 26.
- Bloomers. J. Fink. 1,705,008; Mar. 12.
- Blotter pad. H. J. Vortriede. 1,721,323; July 16.
- Blotting device. G. P. Bodee. 1,740,063; Dec. 17.
- Blower. D. C. Baker. 1,729,093; Sept. 24.
- Blower and smoke consumer. G. Dinardo and J. Cefferatti. 1,741,101; Dec. 24.
- Blower, Fur. C. Peters. 1,702,616; Feb. 19.
- Blower, Rotary. T. W. Green. 1,729,826; Oct. 1.
- Blower unit. A. Feinberg and H. Rathner. 1,713,648; May 21.
- Blowing boilers, Device for. A. G. Kernin. 1,737,591; Dec. 3.
- Blowing device. W. A. Smith. 1,721,674; July 23.
- Blow-out boot. W. Gilbert. 1,712,265; May 7.
- Blow-out preventer. J. W. MacClatchie. 1,708,316; Apr. 9.
- Blow-out preventer, Automatic seal-control. C. A. Rasmussen and W. A. Trout. 1,709,949; Apr. 23.
- Blow-out shoe. A. H. Cooper. 1,711,014; Apr. 30.
- Blowpipe. J. Harris. 1,698,094; Jan. 8.
- Blowpipe. J. Harris. 1,720,043; July 9.
- Blowpipe. J. R. Rose. 1,703,750; Feb. 26.
- Blowtorch. J. B. Anderson. 1,721,844; July 23.
- Blowtorch. G. W. Diener. 1,730,648; Oct. 8.
- Blowtorch. B. Martin. 1,709,404; Apr. 16.
- Blowtorch. B. Martin. 1,711,571; May 7.
- Blowtorch, Gas. J. Muscillo. 1,701,211; Feb. 5.
- Blowtorch mounting. J. J. Kutscheid. 1,696,916; Jan. 1.
- Blue-print machine. G. Arntzen. 1,725,744; Aug. 27.
- Blue-printing machine. F. J. Trumpour. 1,729,462; Sept. 24.



- Blue-printing machine. F. J. Trumpour. 1,735,817; Nov. 12.
- Blueprints green, Toning. R. Fritsche. 1,712,428; May 7.
- Board: See—
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|---------------------------------|---------------------------|
| Checker board.                  | Metal running board.      |
| Corrugated board.               | Panel board.              |
| Cribbage board.                 | Pastry board.             |
| Directory board.                | Plaster board.            |
| Display board.                  | Plotting board.           |
| Drafting board.                 | Poster board.             |
| Drain board.                    | Puzzle board.             |
| Drawing board.                  | Running board.            |
| Drop hammer board.              | Sales board.              |
| Fabric-bolt board.              | Solitaire and play board. |
| Fall board.                     | Sound board.              |
| Fiber board.                    | Sounding board.           |
| Finger board.                   | Spelling board.           |
| Game board.                     | Steam board.              |
| Golf-game board.                | Steel-coated board.       |
| Illuminated dry-cleaning board. | Steel running board.      |
| Instrument board.               | Stocking board.           |
| Ironing and sleeve board.       | Surf board.               |
| Ironing board.                  | Table and ironing board.  |
| Lock board.                     | Wall board.               |
| Matrix board.                   | Water board.              |
|                                 | Waterproof paperboard.    |
- Board and cover, Combination bread. W. H. Dossey. 1,739,444; Dec. 10.
- Board and its manufacture, Artificial. C. C. Vogt. 1,718,011; June 18.
- Board and its manufacture, Artificial. C. C. Vogt and E. J. Pieper. 1,718,012; June 18.
- Board and making same, Laminated. A. G. Maranville. 1,712,965; May 14.
- Board attachment, Instrument-. B. H. Runyan. 1,710,430; Apr. 23.
- Board finishing and cutting apparatus, Coated-. C. C. Colbert and G. E. Preston. 1,722,559; July 30.
- Board splice, Wall and ceiling. C. Campbell. 1,723,500; Aug. 6.
- Boat. W. Adelmann. 1,738,979; Dec. 10.
- Boat. C. J. Baer and C. F. Jeffries. 1,717,541; June 18.
- Boat. B. G. Harley. 1,737,154; Nov. 26.
- Boat. R. Harris. 1,731,493; Oct. 15.
- Boat. J. M. Hatzl. 1,705,402; Mar. 12.
- Boat. L. F. Herreshoff. 1,698,304; Jan. 8.
- Boat. G. G. Kisevalter. 1,701,925; Feb. 12.
- Boat. E. G. Mallison. 1,705,413; Mar. 12.
- Boat. L. B. May. 1,726,962; Sept. 3.
- Boat. A. B. Nihros. 1,725,822; Aug. 27.
- Boat, Amusement. C. Jacobs. Des. 77,360; Jan. 1.
- Boat and propelling means therefor, Motor. T. J. Butler. 1,724,559; Aug. 13.
- Boat, Collapsible. S. J. Kempin. 1,702,872; Feb. 19.
- Boat construction. F. Rehl. 1,723,577; Aug. 6.
- Boat drive, Paddle-wheel-. F. R. Dravo. 1,707,629; Apr. 2.
- Boat, Foldable. M. M. Bair and W. E. Edgerton. 1,738,221; Dec. 3.
- Boat, Folding collapsible. M. G. Steele. 1,715,312; May 28.
- Boat for aeroplanes, Life. L. V. Sircy. 1,724,622; Aug. 13.
- Boat, Gliding. D. Torralva. 1,713,570; May 21.
- Boat, Hand-propelled paddle. J. H. Rathbone and H. Rathbone. 1,741,879; Dec. 31.
- Boat hull, Flying-. D. J. Brimm, jr. 1,702,533; Feb. 19.
- Boat, Jet-propelled. J. A. Weiss. 1,716,400; June 11.
- Boat, Life-saving. J. Karwoski. 1,728,416; Sept. 17.
- Boat, Life-saving. J. B. Pontikis. 1,712,167; May 7.
- Boat, Motor. A. F. Durand. 1,712,758; May 14.
- Boat, Multiple-float speed. M. Green. 1,726,618; Sept. 3.
- Boat, Nonsinkable. F. Sochurek. 1,718,764; June 25.
- Boat paddle. W. Ruff. 1,726,239; Aug. 27.
- Boat, Pleasure. A. Graffeo. 1,728,056; Sept. 10.
- Boat, Power. A. S. Titcomb. 1,710,904; Apr. 30.
- Boat propeller. J. J. Anderson. 1,738,134; Dec. 3.
- Boat-propelling means. D. O. Taylor. 1,737,899; Dec. 3.
- Boat-propelling mechanism. A. Puzan. 1,723,207; Aug. 6.
- Boat, Runabout. J. W. Smith. Des. 79,534; Oct. 1.
- Boat, Safety. A. Fausett. 1,697,420; Jan. 1.
- Boat, Speed. A. Desaye. 1,736,904; Nov. 26.
- Boat, Speed. F. C. Martin. Des. 77,849; Feb. 26.
- Boat, Speed. W. E. Willis. 1,737,180; Nov. 26.
- Boat, Submarine. M. H. Simpson. 1,708,707; Apr. 9.
- Boat, Swimming or surf. J. E. Wright. 1,709,050; Apr. 16.
- Boat top. W. S. Smith. 1,705,592; Mar. 19.
- Boats, Construction of. F. A. Hammer. 1,698,792; Jan. 15.
- Boats, Detachable fin for. W. S. Dupuis. 1,730,844; Oct. 8.
- Boats, Device for recovering submarine. A. F. Petris. 1,736,983; Nov. 26.
- Boats, Device for reducing the skin and wave resistance of moving. B. Anissimoff. 1,697,257; Jan. 1.
- Boats, Propelling means for. H. Kapigian. 1,725,923; Aug. 27.
- Bobbin arranged with steps, Conical. M. Wieland. 1,713,990; May 21.
- Bobbin cleaner, Automatic. T. A. and P. H. Lacey. 1,737,969; Dec. 3.
- Bobbin-controlling adjunct for sewing-machine shuttles. R. N. Corthell. 1,698,392; Jan. 8.
- Bobbin for electrical web detectors. O. V. Payne. 1,703,897; Mar. 5.
- Bobbin for web-replenishing looms. R. G. Turner. 1,739,187; Dec. 10.
- Bobbin release for web-replenishing mechanism. A. J. Chevrete. 1,739,209; Dec. 10.
- Bobbin stripper. E. A. Terrell. 1,740,127-8; Dec. 17.
- Bobbin-stripping machine. E. A. Terrell. 1,705,426; Mar. 12.
- Bobbin support for web-replenishing mechanism. J. E. Hume and W. H. King. 1,703,935; Mar. 5.
- Bobbin-winding machine. E. F. Parks. 1,737,198; Nov. 26.
- Bobbin-winding machines, Attachment for. J. D. Joyce. 1,735,349; Nov. 12.
- Bobbins, Apparatus for making. C. K. Dunlap. 1,731,715; Oct. 15.
- Bobbins, Making. C. K. Dunlap. 1,731,565; Oct. 15.
- Body and producing same, Welded and calked. M. Lachman. 1,736,539; Nov. 19.
- Body bolster. W. E. Wine. Re1,7542; Dec. 31.
- Body bolster. W. E. Wine. 1,741,897; Dec. 31.
- Body-bolster construction. F. W. Chriswell. 1,708,871; Apr. 9.
- Body brace. J. I. Brokaw. 1,722,192; July 23.
- Body construction. P. E. Breneman. 1,704,720; Mar. 12.
- Body construction. P. E. Breneman. 1,706,649; Mar. 26.
- Body construction. P. E. Breneman and J. H. Bourgon. 1,712,547; May 14.
- Body, Convertible. R. Beringer. 1,711,010; Apr. 30.
- Body, Covered dumping. L. E. Williams. 1,734,785; Nov. 5.
- Body for automobiles, Convertible. E. P. Du Pont. 1,724,464; Aug. 13.
- Body for automotive vehicles. G. E. Grimm. 1,717,336; June 11.
- Body for motor vehicles. A. F. Masury. 1,707,311; Apr. 2.
- Body for motor vehicles, Metallic delivery. J. Ledwinka. 1,724,719; Aug. 13.
- Body-leveling device. G. Jaeger. 1,713,532; May 21.
- Body mounting. C. J. Kelsch. 1,707,268; Apr. 2.
- Body mounting, Flexible. L. H. Brown. 1,725,391; Aug. 20.
- Body-supporting means. M. Von Halle. 1,725,115; Aug. 20.
- Body tearing-strip can, Double. J. C. Holloway and H. A. Schulz. 1,734,295; Nov. 5.
- Body with cluster, Adjustable. C. E. Wirth. 1,732,208; Oct. 15.
- Bog cutter and road leveler. C. Faulhaber. 1,740,396; Dec. 17.
- Boiler: See—
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|-----------------------|----------------------------|
| Condenser boiler.     | Metering boiler.           |
| Domestic boiler.      | Sectional boiler.          |
| Electric boiler.      | Series boiler.             |
| Flash boiler.         | Steam boiler.              |
| Gas boiler.           | Steam or hot-water boiler. |
| Ham boiler.           | Tube boiler.               |
| High-pressure boiler. | Wash boiler.               |
| Locomotive boiler.    | Water boiler.              |
| Low-pressure boiler.  | Water-tube boiler.         |
- Boiler H. Addams. 1,703,084; Feb. 26.
- Boiler. G. W. Bach. 1,736,898; Nov. 26.
- Boiler. F. W. Baker. 1,710,961; Apr. 30.
- Boiler. J. B. Buckley. 1,702,241; Feb. 19.
- Boiler. J. S. Clay. 1,699,223; Jan. 15.
- Boiler. L. Courtot. 1,701,871; Feb. 12.
- Boiler. D. Edge. 1,717,015; June 11.
- Boiler. J. H. Fox. 1,719,327; July 2.
- Boiler. J. A. Freiday. 1,718,345; June 25.
- Boiler. C. A. French. 1,703,228; Feb. 26.
- Boiler. A. J. Gallaher. 1,717,550; June 11.
- Boiler. F. B. Howell. 1,707,963; Apr. 2.
- Boiler. V. L. Jones. 1,706,357; Mar. 19.
- Boiler. W. M. Keenan. 1,731,577; Oct. 15.
- Boiler. E. C. Keithley. 1,735,464; Nov. 12.
- Boiler. D. J. Majusa. 1,697,015; Jan. 1.
- Boiler. J. M. McClellon. 1,708,229; Apr. 9.
- Boiler. M. F. Moore. 1,702,545; Feb. 19.
- Boiler. T. E. Murray and J. A. Freiday. 1,720,090; July 9.
- Boiler. J. J. Rathgeb, jr. 1,725,828; Aug. 27.
- Boiler. D. W. Robb. 1,698,563; Jan. 8.
- Boiler. H. Taylor. 1,734,310; Nov. 5.
- Boiler. G. Trasterner. 1,712,857; May 14.
- Boiler. B. B. Whittam. 1,737,988; Dec. 3.
- Boiler alarm. T. Di Blasi and V. Lamorte. 1,706,217; Mar. 19.
- Boiler and blow-off device therefor, Steam. J. Prentice. 1,722,058; July 23.
- Boiler and operating the same. W. B. Chapman. 1,722,496; July 30.
- Boiler and operating the same, Locomotive. O. H. Hartmann and W. Jung. 1,714,505; May 28.
- Boiler and operating the same, Series. D. S. Jacobus. 1,725,920-21; Aug. 27.
- Boiler and superheater having replaceable tubes. T. B. Stillman. 1,737,809; Dec. 3.
- Boiler and the like. J. F. Hottman. 1,698,133; Jan. 8.
- Boiler and the like. T. R. Wollaston. 1,735,945; Nov. 19.
- Boiler arrangement. H. Fecht. 1,729,037; Sept. 24.
- Boiler attachment, Laundry. J. Sztogryna. 1,706,969; Mar. 26.
- Boiler baffle. D. S. Jacobus. 1,739,969; Dec. 17.



- Boiler brace. J. G. Blunt. 1,738,982; Dec. 10.  
 Boiler cleaner. W. P. Thomas. 1,734,060; Nov. 5.  
 Boiler, Combination with smoke-tube. M. Treschow. 1,698,516; Jan. 8.  
 Boiler compound. W. L. Kniesel. 1,735,402; Nov. 12.  
 Boiler-compound feeder, Automatic. R. R. Smiley. 1,728,513; Sept. 17.  
 Boiler construction. A. V. Adamson. 1,731,448; Oct. 15.  
 Boiler construction. J. A. Freiday. 1,718,344; June 25.  
 Boiler construction. G. Welter. 1,731,957; Oct. 15.  
 Boiler construction, Body-. R. G. Anderson. 1,735,887; Nov. 19.  
 Boiler-control system. W. Doble. 1,724,996; Aug. 20.  
 Boiler-control system, Steam-. W. Dobbe. 1,732,796; Oct. 22.  
 Boiler-controlling device. O. H. Ludeman. 1,717,394; June 18.  
 Boiler economizer, Steam-. D. S. Jacobus. 1,729,259; Sept. 24.  
 Boiler economizer, Steam-. W. A. Jones. 1,704,132; Mar. 5.  
 Boiler efficiency, meter. J. M. Spitzglass. 1,730,541; Oct. 8.  
 Boiler-feed apparatus, Locomotive-. N. M. Lower. 1,709,533; Apr. 16.  
 Boiler-feed regulator, Automatic. M. J. Jones. 1,730,275; Oct. 1.  
 Boiler-feed return apparatus, Automatic. J. R. Swanson. 1,704,926; Mar. 12.  
 Boiler feeder. M. P. Miller. 1,709,678; Apr. 16.  
 Boiler feeder. F. M. Webster. 1,707,205; Mar. 26.  
 Boiler-feeding apparatus. C. Z. and E. S. Alexander. 1,710,652; Apr. 23.  
 Boiler-flue cleaner. W. T. Archer. 1,731,646; Oct. 15.  
 Boiler for fuel-burning devices. W. W. Williams. 1,700,104; Jan. 22.  
 Boiler furnace. G. P. Jackson. 1,714,673; May 28.  
 Boiler furnace. G. T. Ladd. 1,709,356; Apr. 16.  
 Boiler furnace. G. T. Ladd. 1,731,427; Oct. 15.  
 Boiler furnace. E. Lundgren. 1,731,428; Oct. 15.  
 Boiler furnace. E. A. Packard. 1,708,486; Apr. 9.  
 Boiler furnace. A. Rühr. 1,698,565; Jan. 8.  
 Boiler furnace. J. Van Brunt. 1,731,446; Oct. 15.  
 Boiler furnace. J. Van Brunt. 1,733,474; Oct. 29.  
 Boiler furnace. J. Van Brunt. 1,734,656; Nov. 5.  
 Boiler furnace, Finely-divided-fuel-burning. E. Lundgren. 1,698,552; Jan. 8.  
 Boiler gauge glass. H. J. Kerr. 1,703,426; Feb. 26.  
 Boiler having superheater. B. N. Broido. 1,722,785; July 30.  
 Boiler header, Sectional. E. C. Ramage, jr. 1,729,487; Sept. 24.  
 Boiler incrustation, Preventing. B. Kitchin. 1,704,390; Mar. 5.  
 Boiler installations, Air preheater for. C. W. E. Clarke. 1,731,842; Oct. 15.  
 Boiler or heater. T. E. Murray and J. H. Lawrence. 1,724,505; Aug. 13.  
 Boiler plant for portable engines, High-pressure steam-. O. H. Hartmann. 1,700,480; Jan. 29.  
 Boiler plants, Feeding of steam-. W. Stender. 1,711,659; May 7.  
 Boiler platform. L. Diven. 1,713,956; May 21.  
 Boiler plug. P. E. McIntosh. 1,713,345; May 14.  
 Boiler system, Automotive. 1,729,102; Sept. 24.  
 Boiler-tube puller. A. E. Hand. 1,735,272; Nov. 12.  
 Boiler uptake. T. B. Stillman. 1,735,884; Nov. 19.  
 Boiler wall. T. E. Murray. 1,709,088; Apr. 16.  
 Boiler washing and filling apparatus. Single-tank. S. Otis and F. S. Wichman. 1,713,298; May 14.  
 Boiler-water preheater. J. Hatch. 1,715,919; June 4.  
 Boiler water supply, Automatic controller for. H. F. Laas. 1,718,241; June 25.  
 Boiler with superheater, Cylindrical marine. S. Hoffman. 1,740,239; Dec. 17.  
 Boiler with superheaters, Water-tube. B. Broido. 1,722,073; July 23.  
 Boilers, Arrangement for regulation of steam. M. Moeller, M. Schliecher, and K. Kluge. 1,732,060; Oct. 15.  
 Boilers, Blower for. J. C. Bennett. 1,706,868; Mar. 26.  
 Boilers, Manufacture of. W. H. Winslow. 1,741,121; Dec. 24.  
 Boilers, Manufacturing high-pressure. S. Löffler. 1,736,610; Nov. 19.  
 Boilers, Water wall for steam. J. F. L. Baker. 1,717,751; June 18.  
 Boiling over of liquids which produce foam when boiling, Device for preventing the. D. Heynis. 1,709,529; Apr. 16.  
 Bolster. H. W. Stertzbach. 1,733,675; Oct. 29.  
 Bolster, Body. W. E. Wine. 1,703,758; Feb. 26.  
 Bolster for tank vehicles. J. H. Flannery. 1,704,662; Mar. 5.  
 Bolster, Shock-absorbing. T. H. Symington. 1,712,908; May 14.  
 Bolster with self-equalizing side bearings. P. R. Drenning. 1,739,389; Dec. 10.  
 Bolster with shock-absorption mechanism. M. H. Martin. 1,732,134; Oct. 15.  
 Bolt: See—  
   Cremone bolt.                   Securing bolt.  
   Door bolt.                     Spring bolt.  
   Extension bolt.               Spring shackle bolt.  
   Latch bolt.                   Toggle bolt.  
   Sash and door bolt.           Wedge bolt.  
 Bolt. D. Booth. 1,706,102; Mar. 19.  
 Bolt. F. C. Ferguson. 1,705,086; Mar. 12.  
 Bolt and hasp, Combination. E. C. Turner. 1,734,655; Nov. 5.  
 Bolt and nut lock. M. J. Henry. 1,741,234; Dec. 31.  
 Bolt and wire cutter. J. H. A., and W. Helwig. 1,735,317; Nov. 12.  
 Bolt-blank-feeding mechanism. J. A. Kinney. 1,718,240; June 25.  
 Bolt centering, facing, and pointing machine. J. A. Eden, jr. 1,720,784; July 16.  
 Bolt construction. W. Marshall and F. Kiehler. 1,739,685; Dec. 17.  
 Bolt cutter. J. E. Kalgren. 1,733,374; Oct. 29.  
 Bolt-extracting device. W. D. Himes. 1,701,409; Feb. 5.  
 Bolt-finishing machine. H. and W. A. Crehan. 1,738,642; Dec. 10.  
 Bolt-head trimmer. J. A. Kinney. 1,704,541; Mar. 5.  
 Bolt-heading machine. W. L. Ward. 1,718,265; June 25.  
 Boltless fishplate and like construction. E. G. Guinn. 1,716,226; June 4.  
 Bolt lock. I. Gonyk. 1,711,345; Apr. 30.  
 Bolt lock. H. R. Simpson. 1,705,590; Mar. 19.  
 Bolt lock, Expansion. F. J. Dowling. 1,714,857; May 28.  
 Bolt lock, Tubular dead-. W. Y. Farnsworth. 1,727,054; Sept. 3.  
 Bolt mounting, Adjustable. W. J. Spiro. 1,732,993; Oct. 22.  
 Bolt-operating mechanism for locks and latches. W. E. Wread. 1,720,638; July 9.  
 Bolt pointing and threading machine. J. A. Kinney. 1,718,239; June 25.  
 Bolt, shaft, and the like. A. H. Jones. 1,708,793; Apr. 9.  
 Bolt stock, Making fascies. T. S. Wheelwright. 1,738,487; Dec. 3.  
 Bolt-trimming machine. T. H. Bauck. 1,711,630; May 7.  
 Bolts, Applying stay. A. F. Pitkin. 1,698,892; Jan. 15.  
 Bolts, Method of and apparatus for making. H. Thomas. 1,734,752; Nov. 5.  
 Bomb. F. Lesh. 1,724,294; Aug. 13.  
 Bomb, Aero smoke. W. L. Shively. 1,709,597; Apr. 16.  
 Bomb and setting means therefor. A. A. Potter. 1,741,036; Dec. 24.  
 Bomb, Calorimetric. J. Darroch. 1,708,873; Apr. 9.  
 Bomb-dropping device, Automatic. A. Lombardo. 1,741,195; Dec. 31.  
 Bomb sight, Automatic. H. O. Russell. 1,710,115; Apr. 23.  
 Bomb, Vault gas. A. J. Macy. 1,736,206; Nov. 19.  
 Bombs or torpedoes, Apparatus for throwing. G. Madaschi. 1,721,704; July 23.  
 Bonded refractory. J. D. Morgan. 1,734,595; Nov. 5.  
 Bonding drill. R. Rostron. 1,717,626; June 18.  
 Bonding pin. L. H. Ayer. 1,706,992; Mar. 26.  
 Bone-sawing machine. W. F. Wells. 1,721,722; July 23.  
 Bonnet. C. M. Adams. Des. 78,601; May 28.  
 Book. F. O. Green. 1,697,644; Jan. 1.  
 Book, Account. P. Burroughs. 1,707,756; Apr. 2.  
 Book, Account. O. W. Perin. 1,717,621; June 18.  
 Book, Adjustable ring. H. T. Adams. 1,698,463; Jan. 8.  
 Book back for loose-leaf books. J. Schade. 1,709,955; Apr. 23.  
 Bookbinder. W. R. Kline. 1,734,134; Nov. 5.  
 Bookbinder. L. F. Parr. 1,735,211; Nov. 12.  
 Bookbinding machine. J. A. Davis. 1,714,299; May 21.  
 Bookbinding machine. C. A. Juengst. 1,731,818; Oct. 15.  
 Bookbinding machine. A. B. Roe. 1,697,327; Jan. 1.  
 Bookbinding machine, Straight-line. R. E. Ackley. 1,704,454; Mar. 5.  
 Book, Blank. C. W. Beale. 1,733,048; Oct. 22.  
 Bookcase. J. A. Richards. 1,729,401; Sept. 24.  
 Book, Check. W. R. Hotchkiss. 1,706,883; Mar. 26.  
 Book, Check. C. C. Howard. 1,709,618; Apr. 16.  
 Book, Coloring. I. Shulman. 1,698,739; Jan. 15.  
 Book cover-making machines, Back-lining feed for. C. Schramm. 1,724,047; Aug. 13.  
 Book cover, Sales-. E. L. Mooney. 1,698,766; Jan. 15.  
 Book covers, Finishing of. H. Dunn. 1,699,957; Jan. 22.  
 Book-drilling machine. A. B. Roe. 1,710,744; Apr. 30.  
 Book end. J. D. Conley. Des. 79,702; Oct. 29.  
 Book end. H. Mark. 1,704,011; Mar. 5.  
 Book end, cigarette dispenser and lighter, Combined. F. C. Copeland. Des. 77,352; Jan. 1.  
 Book end or similar article of manufacture. J. Gowdey. Des. 78,202; Apr. 9.  
 Bookholder. A. E. Richardson. 1,729,228; Sept. 24.  
 Bookholder and table. C. F. Lowry. 1,739,643; Dec. 17.  
 Bookholder, Multiple-unit. A. M. Martin. 1,722,811; July 30.  
 Book, Index. C. A. Mellicke. 1,702,357; Feb. 19.  
 Bookkeeping device. E. A. Baskerville. 1,713,163; May 14.  
 Bookkeeping machine. R. La Pagna. 1,707,864; Apr. 2.  
 Book-leaf-turning machine, Automatic. G. Haumann. 1,699,662; Jan. 22.  
 Book lock. M. H. Jackson. 1,707,225; Apr. 2.  
 Book, Loose-leaf. A. Polko. 1,728,078; Sept. 10.  
 Book, Loose-leaf. J. Schade. 1,720,242; July 9.  
 Bookmaking machine. M. F. Brennan. 1,705,394; Mar. 12.  
 Book, Manifold sales. C. T. Raschick. 1,708,682; Apr. 9.  
 Book, Manifolding. E. K. Bottle. 1,699,605; Jan. 22.  
 Book, Manifolding. E. K. Bottle. 1,735,848; Nov. 19.  
 Book, Manifolding. H. P. Brown. 1,738,633; Dec. 10.  
 Book, Manifolding. L. Huffman. 1,730,148; Oct. 1.  
 Book, Manifolding. A. H. Phillips. 1,718,799; June 25.



- Book, Manifold. W. A. Pringle. 1,699,631; Jan. 22.  
 Book, Manifold. H. E. Sheets. 1,706,711; Mar. 26.  
 Book, Manifold sales. W. S. Birdsall. 1,700,878; Feb. 5.  
 Book, Manifold sales. E. K. Bottle. 1,730,352-4; Oct. 8.  
 Bookmark. J. M. Deutsch. 1,711,046; Apr. 30.  
 Bookmark. B. Klein. 1,700,846; Feb. 5.  
 Bookmark. F. Mashak. 1,697,467; Jan. 1.  
 Bookmark. R. H. Moore. 1,710,062; Apr. 23.  
 Book, Match. L. Greenbaum and E. Van Hoofstadt. 1,733,258; Oct. 29.  
 Book, Memorandum. L. P. Huey. 1,735,318; Nov. 12.  
 Book, Note. J. Doboi. 1,731,355; Oct. 8.  
 Book or file device, Loose-leaf note. C. W. Gerard. 1,723,030; Aug. 6.  
 Book protector. V. P. Sollom. 1,726,684; Sept. 3.  
 Bookrack. A. E. Zaremba. 1,699,176; Jan. 15.  
 Book rest. P. C. Hunter. 1,740,814; Dec. 24.  
 Book, Sales. E. K. Bottle. 1,730,355; Oct. 8.  
 Book-squeezing mechanism. P. E. Kleineberg. 1,720,680; July 16.  
 Bookstack. A. S. Macdonald. 1,736,883; Nov. 26.  
 Bookstand. W. E. Haskin. 1,715,233; May 28.  
 Books, Method and apparatus for producing and reading. R. A. Fessenden. 1,732,302; Oct. 22.  
 Books, Sanitary attachment for. J. T. Johnson. 1,705,668; Mar. 19.  
 Boom and bucket for concrete pavers. C. E. Foote. 1,739,392; Dec. 10.  
 Boom, bucket, and spout distributing apparatus, Combination. O. Frohman. 1,697,311; Jan. 1.  
 Boom for ships and turntable therefor, Unloading. J. R. Sensibar. 1,737,342; Nov. 26.  
 Booster control. F. R. Peters. 1,736,886; Nov. 26.  
 Booster detonator. S. B. Large. 1,713,838; May 21.  
 Boot and making same, Form-fitting. G. L. Van Dinter and C. Ferretie. 1,726,782; Sept. 3.  
 Boot and manufacturing, Top. A. A. Glidden, T. M. Knowland, and A. M. Greim. 1,734,478; Nov. 5.  
 Boot and shoe shining device. E. R. Gaskill. 1,723,848; Aug. 6.  
 Boot and the like, Football. E. Stahl. 1,726,198; Aug. 27.  
 Boot for use by miners. J. Toole. 1,717,127; June 11.  
 Boot, Hockey. H. L. McMurchy. 1,707,129; Mar. 26.  
 Boot, Hockey. P. Scroggins. 1,708,156; Apr. 9.  
 Boot, Molded rubber. A. A. Glidden and T. M. Knowland. 1,732,440; Oct. 22.  
 Boot or shoe. A. B. Kierstead. 1,727,831; Sept. 10.  
 Boot or shoe and making the same. J. W. May. 1,710,936; Apr. 30.  
 Boot, Rubber. A. A. Glidden and T. M. Knowland. 1,725,347; Aug. 20.  
 Boot, Rubber. F. Wray. 1,729,236; Sept. 24.  
 Boot tongue. J. S. Justin. 1,726,269; Aug. 27.  
 Bootie. H. M. Wright and E. Reed. Des. 79,345; Sept. 3.  
 Boots and shoes, Creeper for. H. S. Coburn. 1,720,163; July 9.  
 Boots and shoes, Device for use in rounding and channeling soles of. F. Ricks and V. E. Wilson. 1,733,205; Oct. 29.  
 Boots and shoes, Making. C. B. Spalsbury. Re17,339; June 25.  
 Boots and shoes, Manufacture of. S. P. Lovell. 1,711,956; May 7.  
 Boots and shoes, Manufacturing. R. W. Peer and P. A. Sawyer. 1,706,126; Mar. 19.  
 Boots and shoes, Manufacturing. R. Richard. 1,701,896; Feb. 12.  
 Boots and shoes, Uniting parts of. F. N. La Chapelle. 1,713,538; May 21.  
 Boots for hunters and motorcyclists, Leg former for. J. Despang. 1,726,889; Sept. 3.  
 Boots, Manufacturing rubber. A. A. Glidden, T. M. Knowland, and H. L. Davis. 1,722,697; July 30.  
 Booth. J. E. Hunt. Des. 78,027; Mar. 19.  
 Booth. J. Petta and S. Zacharyasz. 1,728,134; Sept. 10.  
 Booth and the like, Refreshment. J. L. Macomber. 1,721,703; July 23.  
 Booth, Bulletproof. N. Dubberly. 1,725,755; Aug. 27.  
 Booth, Dispensing. E. D. Kohr. Des. 77,490; Jan. 15.  
 Booth, Outside spray. J. L. Reymiller. 1,741,954; Dec. 31.  
 Booth, Peanut. M. Peruzzi. Des. 77,705; Feb. 12.  
 Booth, Refreshment. J. Avirgan. 1,712,487; May 14.  
 Booth, Service-station. C. J. Beckwith. Des. 78,804; June 25.  
 Booth, Service-station. C. A. Petersen. Des. 77,857; Feb. 26.  
 Booth, Telephone or other. G. F. Giddis. 1,733,121; Oct. 29.  
 Booth, Vending. J. T. Crow. Des. 78,010; Mar. 19.  
 Booth, Voting. T. H. Berg. 1,704,689; Mar. 12.  
 Borax from brine, Recovering. H. D. Hellmers. 1,733,537; Oct. 29.  
 Border strip. H. L. Budd. Des. 77,933; Mar. 12.  
 Boring and drilling machine, Continuous. F. M. Davis. 1,704,080; Mar. 5.  
 Boring and grinding machines, Centering device for. J. Appleton. 1,734,787; Nov. 5.  
 Boring and grinding machine, Portable. J. Appleton. 1,739,536; Dec. 17.  
 Boring and grinding machine, Portable. N. A. Nelson. 1,708,798; Apr. 9.  
 Boring bar. A. H. Wadell. 1,698,861; Jan. 15.  
 Boring bit. C. O. Sandberg. 1,705,647; Mar. 19.  
 Boring device. E. E. Davis. 1,698,394; Jan. 8.  
 Boring head. G. H. Deyo. 1,713,646; May 21.  
 Boring instrument. C. K. Fournier. 1,705,049; Mar. 12.  
 Boring machine. E. Baumann. 1,702,717; Feb. 19.  
 Boring machine. S. G. Bolin. 1,721,268; July 16.  
 Boring machine. J. C. Smith. 1,698,971; Jan. 15.  
 Boring machine, Log. C. G. Sapp. 1,728,367; Sept. 17.  
 Boring noncircular holes, Device for. L. C. Jennings. 1,730,429; Oct. 8.  
 Boring, reaming, and tapping machine, Combined. D. F. Domizi. 1,704,353; Mar. 5.  
 Boston bag. J. W. Brandt. 1,710,041; Apr. 23.  
 Bottle. I. Barouh. Des. 77,727; Feb. 19.  
 Bottle. J. W. Bicks. Des. 77,805; Feb. 26.  
 Bottle. E. U. Binks. Des. 78,140; Apr. 2.  
 Bottle. S. O. Briggs. Des. 79,551; Oct. 8.  
 Bottle. O. K. Brown. Des. 79,178; Aug. 13.  
 Bottle. E. Daltroff. Des. 78,686; June 4.  
 Bottle. E. Daltroff. Des. 78,878; July 2.  
 Bottle. M. B. de Wagner. Des. 78,616; May 28.  
 Bottle. M. B. de Wagner. Des. 79,958; Nov. 26.  
 Bottle. H. De Wallace. 1,717,195; June 11.  
 Bottle. J. L. Dunnock. Des. 78,735; June 18.  
 Bottle. F. K. Edwards. Des. 79,585; Oct. 15.  
 Bottle. J. Failliot. Des. 79,460; Sept. 24.  
 Bottle. N. K. Garhart. 1,731,816; Oct. 15.  
 Bottle. G. T. Gibson. Des. 77,826; Feb. 26.  
 Bottle. J. Glazer. Des. 78,157; Apr. 2.  
 Bottle. C. L. Grigg. Des. 78,351; Apr. 23.  
 Bottle. W. E. Groniger. Des. 78,465; May 7.  
 Bottle. L. M. Grossman. Des. 77,407; Jan. 8.  
 Bottle. R. A. Hunt. Des. 79,454-5; Sept. 24.  
 Bottle. F. L. Johnson. Des. 80,235; Dec. 31.  
 Bottle. D. Karavedas. Des. 77,839; Feb. 26.  
 Bottle. A. J. Krank. Des. 79,336; Sept. 3.  
 Bottle. L. B. Krick. Des. 78,163; Apr. 2.  
 Bottle. S. Lancet. Des. 78,110; Mar. 26.  
 Bottle. A. Levy. Des. 78,826; June 25.  
 Bottle. F. S. Maddaford. Des. 79,296; Aug. 27.  
 Bottle. G. N. Mas. Des. 77,617-19; Jan. 29.  
 Bottle. G. N. Mas. Des. 77,850; Feb. 26.  
 Bottle. G. N. Mas. Des. 78,167; Apr. 2.  
 Bottle. G. N. Mas. Des. 78,934; July 9.  
 Bottle. F. R. Miller. Des. 78,479; May 7.  
 Bottle. I. Miller. Des. 78,712; June 11.  
 Bottle. W. R. Nicholson. Des. 79,842; Nov. 5.  
 Bottle. L. Peszynska. Des. 79,935; Nov. 19.  
 Bottle. L. M. Rebel. Des. 79,760; Oct. 29.  
 Bottle. J. R. Routt. Des. 78,314; Apr. 16.  
 Bottle. F. Schroeder. Des. 77,570; Jan. 1.  
 Bottle. A. E. and M. Slerad. Des. 78,844; June 25.  
 Bottle. J. Simon. Des. 77,437-8; Jan. 8.  
 Bottle. W. E. Swindell. Des. 78,949; July 9.  
 Bottle. A. B. Taylor. Des. 78,667; May 28.  
 Bottle. R. E. Walker. Des. 77,716; Feb. 12.  
 Bottle and bottle cap. A. F. McDonnell. 1,714,686; May 28.  
 Bottle and nipple, Baby's. J. Spanier and B. Weiss. 1,725,166; Aug. 20.  
 Bottle and nipple construction, Nursing. J. L. Havins. 1,701,566; Feb. 12.  
 Bottle and opener. L. C. Ament. 1,725,726; Aug. 20.  
 Bottle and pedestal therefor, Combined. P. C. Delaize. Des. 78,195; Apr. 9.  
 Bottle and the like, Tapered fibrous-material. W. H. Bremmerman. 1,708,783; Apr. 9.  
 Bottle cap. R. K. Becker. 1,713,321; May 14.  
 Bottle cap. S. J. Blackwell. 1,739,348; Dec. 10.  
 Bottle cap. M. C. Bruhn and M. G. Piepenburg. 1,716,163; June 4.  
 Bottle cap. L. R. N. Carvalho. 1,712,103; May 7.  
 Bottle cap. E. S. Church. 1,706,561; Mar. 26.  
 Bottle cap. R. A. Graham. 1,734,372; Nov. 5.  
 Bottle cap. A. C. Holmdahl. 1,720,835; July 16.  
 Bottle cap. A. C. Spahn. 1,704,905; Mar. 12.  
 Bottle cap. H. Wettstein. 1,706,720; Mar. 26.  
 Bottle cap. E. A. Wygonik. 1,715,882; June 4.  
 Bottle cap and opener. L. C. Ament. 1,703,759; Feb. 26.  
 Bottle cap and producing the same. A. H. Warth. 1,732,958; Oct. 22.  
 Bottle cap and ticket holder. T. O. Meadors. 1,721,185; July 16.  
 Bottle cap, Double-lock. A. F. McDonnell. 1,722,587; July 30.  
 Bottle-cap lifter. C. W. Halsey. 1,741,294; Dec. 31.  
 Bottle cap, Milk. J. A. Dugan. 1,705,661; Mar. 19.  
 Bottle-cap remover. W. Bucholtz. 1,736,519; Nov. 19.  
 Bottle-cap remover, Milk. A. H. Emery. 1,716,688; June 11.  
 Bottle-cap remover, Milk. C. Lile. 1,729,620; Oct. 1.  
 Bottle cap, Sanitary milk. S. Bolozky. 1,699,275; Jan. 15.  
 Bottle capper. G. Shepherd and W. I. James. 1,715,680; June 4.  
 Bottle-capping device. G. E. Strandt. 1,739,101; Dec. 10.  
 Bottle-capping machine. W. F. Bradley. 1,732,353; Oct. 22.  
 Bottle-capping machine. W. L. Burns. 1,726,054; Aug. 27.  
 Bottle-capping machine. J. L. Goldie. 1,711,838; May 7.  
 Bottle-capping machine. C. L. Johnson. 1,702,261; Feb. 19.  
 Bottle carrier. H. G. Cathcart. 1,726,471; Aug. 27.  
 Bottle carrier. F. Hogberg. 1,700,570; Jan. 29.  
 Bottle carrier. V. Jones. 1,705,061; Mar. 12.



- Bottle carrier. H. E. Watrous. 1,720,500; July 9.  
 Bottle carrier. M. P. Wetmore. 1,737,819; Dec. 3.  
 Bottle carrier, Milk-. W. M. Minyard. 1,716,236; June 4.  
 Bottle carrier, Milk-. R. C. Stokes. 1,711,757; May 7.  
 Bottle case. W. J. Behrig and W. O. Hoppe. 1,698,684; Jan. 8.  
 Bottle casing. A. E. Payson and M. P. Wetmore. 1,712,228; May 7.  
 Bottle-cleaning apparatus. P. W. Loew and R. R. McKechnie. 1,719,844; July 9.  
 Bottle closure. W. W. Mason. 1,739,763; Dec. 17.  
 Bottle closure. F. Schneible. 1,734,447; Nov. 5.  
 Bottle-closure disk. W. L. Wright. 1,707,837; Apr. 2.  
 Bottle cooler. C. E. Eisenstat. 1,700,218; Jan. 29.  
 Bottle cooler. J. F. Pressley. 1,719,943; July 9.  
 Bottle cover. A. Clifford. 1,725,341; Aug. 20.  
 Bottle-crown remover. J. H. Miller. 1,696,920; Jan. 1.  
 Bottle-decapping apparatus. A. J. Lippold. 1,740,186; Dec. 17.  
 Bottle-dipping machine. H. B. Silver. 1,739,526; Dec. 17.  
 Bottle-dispensing and refrigerating apparatus. D. V. Wright. Re17,340; June 25.  
 Bottle-dispensing machine. C. W. Kirkman. 1,700,060; Jan. 22.  
 Bottle display and statuette, Combined. R. A. Wood. Des. 78,955; July 9.  
 Bottle evacuating and sealing machine. D. Robertson. 1,703,457; Feb. 26.  
 Bottle-feed mechanism. A. P. Ekvall. 1,726,657; Sept. 3.  
 Bottle filling and corking machine. N. F. Saviano. 1,710,074; Apr. 23.  
 Bottle-filling device. F. S. Hyatt. 1,736,598; Nov. 19.  
 Bottle-filling machine. E. S. Engle. 1,726,479; Aug. 27.  
 Bottle-filling machine. G. E. Strand and A. J. Lippold. 1,716,869; June 11.  
 Bottle for holding mucilage and like adhesives, and combined brush and stopper therefor. W. H. Perry. 1,713,145; May 14.  
 Bottle for liquid polishes and the like, Self-feeding. D. W. Mullen. 1,705,450; Mar. 12.  
 Bottle for perfume or the like. S. de Vaulchier. Des. 80,117; Dec. 17.  
 Bottle for vending oil, Refillable. F. D. Gatchell. 1,739,357; Dec. 10.  
 Bottle-handling device. E. J. Harris. 1,735,502; Nov. 12.  
 Bottle-handling device. J. E. Hires. 1,742,074; Dec. 31.  
 Bottle holder. I. Barouh. Des. 77,728; Feb. 19.  
 Bottle, Hot-water. H. A. Bauman. Des. 77,665; Feb. 12.  
 Bottle, Hot-water. S. L. Palmer. 1,726,761; Sept. 3.  
 Bottle, Invalid's comfort. N. E. Tate. 1,725,491; Aug. 20.  
 Bottle, Inviolable and unfillable. J. Casanovas vda. de Tos. 1,707,601; Apr. 2.  
 Bottle, Leveling. C. B. Francis. 1,724,013; Aug. 13.  
 Bottle, Milk. L. Harper. 1,708,135; Apr. 9.  
 Bottle, Milk. H. Kart. Des. 78,628; May 28.  
 Bottle, Milk. W. S. Reiber. 1,722,396; July 30.  
 Bottle, Mucilage. W. W. S. Carpenter. 1,735,262; Nov. 12.  
 Bottle, Nonfillable. H. G. Driscoll. 1,711,878; May 7.  
 Bottle, Nonrefillable. J. J. Fernandez and E. M. Peñate. 1,697,112; Jan. 1.  
 Bottle, Nonrefillable. J. J. Fernandez and E. M. Peñate. 1,712,953; May 14.  
 Bottle, Nonrefillable. J. Herzek. 1,721,662; July 23.  
 Bottle, Nursing. W. M. Decker. 1,733,184; Oct. 29.  
 Bottle, Nursing. L. B. Frye. 1,702,233; Feb. 12.  
 Bottle, Nursing. J. P. Gardner. 1,732,126; Oct. 15.  
 Bottle opener. J. De Bracht. 1,728,787; Sept. 17.  
 Bottle opener. R. M. Brown. 1,702,149; Feb. 12.  
 Bottle opener. W. J. Carroll. 1,728,041; Sept. 10.  
 Bottle opener. W. E. Harrison. 1,739,457; Dec. 10.  
 Bottle opener. J. A. Hoegger. 1,715,038; May 28.  
 Bottle opener. I. W. Litchfield. 1,728,418; Sept. 17.  
 Bottle-opening device. P. Jones. 1,709,669; Apr. 16.  
 Bottle or similar article. G. F. Gallagher. Des. 79,924-5; Nov. 19.  
 Bottle or similar article of manufacture. J. Goldhaber. Des. 78,514; May 14.  
 Bottle or similar article of manufacture. H. Kahanowitz. Des. 79,721; Oct. 29.  
 Bottle or similar container. N. N. Corotneff. Des. 77,742; Feb. 19.  
 Bottle or similar container. F. D. Coster. Des. 78,448; May 7.  
 Bottle or similar container. F. D. Coster. Des. 78,729; June 18.  
 Bottle or similar container. L. A. Danco. Des. 78,194; Apr. 9.  
 Bottle or similar container. H. A. Groth. Des. 79,074; July 30.  
 Bottle or similar container. M. Selig. Des. 77,711; Feb. 12.  
 Bottle-outlet control. C. E. Bown. 1,731,560; Oct. 15.  
 Bottle, Perfumery. I. W. Bean. Des. 78,002; Mar. 19.  
 Bottle pouring cap, Milk-. S. Lewin. 1,698,338; Jan. 8.  
 Bottle protector, Milk-. H. J. Doeh. 1,718,118; June 18.  
 Bottle rack, Sanitary. R. B. Rollins. 1,742,150; Dec. 31.  
 Bottle rack, Sanitary milk-. D. Diamond and J. F. Fodor. 1,697,055; Jan. 1.  
 Bottle, Reinforced. W. Edelmuth. 1,720,888; July 16.  
 Bottle-seal opener. M. D. Avillar. Des. 79,877; Nov. 12.  
 Bottle sealer. D. F. Dalley. 1,721,210; July 16.  
 Bottle-sealing machine. M. Mueller and R. M. Blakely. 1,708,429; Apr. 9.  
 Bottle-slruping and crown-corking machine. W. Meadowcroft. 1,711,175; Apr. 30.  
 Bottle, Soft-drink. P. J. Simon. 1,728,883; Sept. 17.  
 Bottle stopper. A. Y. S. Album. 1,716,100; June 4.  
 Bottle stopper. P. Guerlain. 1,724,578; Aug. 13.  
 Bottle stopper. R. H. Harmon. 1,739,393; Dec. 10.  
 Bottle stopper. G. McNee. 1,723,355; Sept. 17.  
 Bottle, Stopper-protected. C. Ellis. 1,731,195; Oct. 8.  
 Bottle-stoppering machine. W. O. P. Rieck. 1,699,209; Jan. 15.  
 Bottle-transfer apparatus. L. D. Soubier. 1,718,607; June 25.  
 Bottle warmer, Electric. W. L. Weinmann. 1,717,132; June 11.  
 Bottle washer, Milk-. H. F. Krause. 1,735,539; Nov. 12.  
 Bottle washer, Portable. M. Arnold and T. Arndt. 1,723,120; Aug. 6.  
 Bottle-washing apparatus. I. R. Hippenmeyer. 1,724,087; Aug. 13.  
 Bottle-washing attachment. E. E. and J. E. Edenharder. 1,726,949; Sept. 3.  
 Bottle-washing machine. C. A. Fischer. 1,708,694; Apr. 9.  
 Bottles and like receptacles, Closure for. E. Goltstein and E. Meyer. 1,722,909; July 30.  
 Bottles and other containers, Capping milk. W. L. Wright. 1,711,337; Apr. 30.  
 Bottles and the like, Apparatus for and method of bottoming paper. W. H. Bremmerman. 1,708,828; Apr. 9.  
 Bottles, Apparatus for making paper. A. Bodor. 1,719,421; July 2.  
 Bottles, Closing (sealing) of. J. M. B. Van Vlijen. 1,702,182; Feb. 12.  
 Bottles, Control feed for filling milk. R. Horton. 1,722,420; July 30.  
 Bottles or other containers, Cleaning. L. R. N. Carvalho. 1,714,075; May 21.  
 Bottling, corking, and labeling machine, Combined. A. L. Andersson. 1,697,448; Jan. 1.  
 Bottom-handled bag. J. Duvall. 1,733,219; Oct. 29.  
 Bouquet. B. M. Arthur. Des. 79,415; Sept. 17.  
 Bourdon tube. H. Schlaich. 1,714,988; May 28.  
 Bow and projectile, Archery. Y. Ikeda. 1,725,760; Aug. 27.  
 Bow, Archery. P. Rounseville. 1,709,630; Apr. 16.  
 Bow for archery. R. H. Cowdery. Des. 77,892; Mar. 5.  
 Bow for archery. H. M. Wilcox. 1,724,387; Aug. 13.  
 Bow for string instruments. H. Berkowski. 1,714,490; May 28.  
 Bow, Rebounding. H. Kreuels. 1,701,487; Feb. 5.  
 Bowl and cutting board, Combination chopping. E. A. Bircher. 1,704,690; Mar. 12.  
 Bowl for a fruit-juice extractor. A. C. Gilbert. Des. 79,356; Sept. 10.  
 Bowl for coffee makers, Lower. A. M. Boever. Des. 80,015; Dec. 3.  
 Bowl for coffee makers, Upper. A. M. Boever. Des. 80,013; Dec. 3.  
 Bowl for indirect-lighting fixtures. E. D. Tillson. Des. 79,999; Nov. 26.  
 Bowl for oil trucks, oil pumps, and pipe lines, Catch. S. A. Yelmgren. 1,714,338; May 21.  
 Bowl or analogous article. P. Cricchio. Des. 79,184; Aug. 13.  
 Bowl or article of similar nature, Flower. T. C. Helsey. Des. 79,716; Oct. 29.  
 Bowl or similar article, Illuminating glass. N. Kopp. Des. 79,723; Oct. 29.  
 Bowl or similar article, Lighting-ixture. N. Kopp. Des. 79,724; Oct. 29.  
 Bowl or similar article, Sugar. F. Schmidt. Des. 79,266; Aug. 20.  
 Bowl or the like, Sugar. C. Weiss. Des. 78,239; Apr. 9.  
 Bowl, Sugar. A. M. Pasnik. 1,698,732; Jan. 15.  
 Bowl, Sugar. H. H. Schott. Des. 80,143; Dec. 17.  
 Bowl, Transparent. E. B. Gillinder. Des. 79,231; Aug. 20.  
 Bowl, Transparent. E. B. Gillinder. Des. 80,172; Dec. 24.  
 Bowl, Water. H. J. Ferris. 1,735,536; Nov. 12.  
 Bowls, Connection for water-closet. E. H. Miller. 1,699,983; Jan. 22.  
 Bowling alley. R. Karr. 1,724,841; Aug. 13.  
 Bowling alley. R. C. Roshon. 1,711,968; May 7.  
 Bowling alley. T. R. Treiber. 1,697,800; Jan. 1.  
 Bowling alley. R. A. Williams. 1,706,271; Mar. 19.  
 Bowling alley, Automatic. W. White. 1,712,186; May 7.  
 Bowling-alley-surfacing machine. D. G. Johnson and W. L. Campbell. 1,740,244; Dec. 17.  
 Bowling-ball cleaner. W. G. Johnson. 1,714,958; May 28.  
 Bowling-ball return check. C. H. Weicker. 1,700,007; Jan. 22.  
 Bowling pin. H. J. Bluhm. 1,736,425; Nov. 19.  
 Bowling pin. J. A. Cherrette. 1,722,557; July 30.  
 Bowling pin. C. J. Sheldon. 1,718,309; June 25.  
 Bowling pin. P. F. Wilhelm. 1,702,556; Feb. 19.  
 Bowling-pin construction. R. S. Blair. 1,705,280; Mar. 12.  
 Box - See -  
 Axle box.  
 Battery box.  
 Bearing box.  
 Belt box.  
 Berry box.  
 Biscuit box.  
 Bit box.  
 Bread box.  
 Call box.  
 Check box.  
 Cigar box.  
 Click box.  
 Collapsible box.  
 Conduit box.  
 Cooling box.  
 Core box.  
 Cosmetic box.  
 Covered box.  
 Cultivator sand box.  
 Dice box.  
 Display box.  
 Driving box.



## Box: See—

Exhaust box.  
 Fire box.  
 Fish-bait box.  
 Fish box.  
 Floor box.  
 Flow box.  
 Folded box.  
 Foldable box.  
 Folding blank box.  
 Folding box.  
 Fruit box.  
 Furnace fire box.  
 Fuse box.  
 Fuse-panel box.  
 Gasoline fill box.  
 Grave box.  
 Gravel box.  
 Grounding box.  
 Hatbox.  
 Hone box.  
 Hosiery box.  
 Incubator lamp box.  
 Jewelry box.  
 Journal box.  
 Knockdown box.  
 Leather-tempering box.  
 Light box.  
 Locomotive driving box.  
 Lunch box.  
 Magic box.  
 Mail box.  
 Mailing box.  
 Match box.  
 Metal box.  
 Meter box.  
 Miter box.  
 Mold box.  
 Money box.  
 Musical box.  
 Ornamental box.  
 Box. S. Bachmann. 1,699,269; Jan. 15.  
 Box. A. H. Beyer. 1,716,757; June 11.  
 Box. W. H. Champlin. 1,737,186; Sept. 26.  
 Box. F. Eberhart. Des. 79,325; Sept. 3.  
 Box. F. Graffenberger. 1,731,007; Oct. 8.  
 Box. J. Grossman. 1,731,414; Oct. 15.  
 Box. C. H. Kidwell. Des. 80,178; Dec. 24.  
 Box. B. A. Lange. 1,703,399; Feb. 26.  
 Box. H. V. Marsh. 1,704,987; Mar. 12.  
 Box. C. C. Miller. 1,699,098; Jan. 15.  
 Box. L. M. Rebel. Des. 80,051; Dec. 3.  
 Box. F. J. Schleicher. Des. 79,212; Aug. 13.  
 Box. F. J. Schleicher. Des. 79,531-2; Oct. 1.  
 Box. F. J. Schleicher. Des. 80,092; Dec. 10.  
 Box. F. J. Schleicher. 1,705,838; Mar. 19.  
 Box. F. J. Schleicher. 1,733,629; Oct. 29.  
 Box. F. J. Schleicher. 1,733,674; Oct. 29.  
 Box. F. J. Schleicher. 1,739,920; Dec. 17.  
 Box. E. Skinner. 1,739,529; Dec. 17.  
 Box. H. B. Walter. 1,737,280; Nov. 26.  
 Box. H. B. Walter. 1,738,744; Dec. 10.  
 Box and blank therefor, Collapsible. A. Berkowitz. 1,700,758; Feb. 5.  
 Box and hanger, Dress, coat, and suit. S. P. Raffel. 1,722,111; July 23.  
 Box and its manufacture. A. E. Neely. 1,717,464; June 18.  
 Box and roller bearing, Self-aligning take-up. E. A. Beyl. 1,718,520; June 25.  
 Box and support, Outlet. M. Weinstein. 1,699,414; Jan. 15.  
 Box and the like, Metal-bound. A. Elmendorf. 1,712,493; May 14.  
 Box blank. O. T. Thompson. Des. 79,537; Oct. 1.  
 Box blank, Folding. E. P. Williams. 1,713,154; May 14.  
 Box-blanking machines, Waste ejector for. L. H. Schroeder and J. Wagner. 1,713,054; May 14.  
 Box, case, and the like having hinged lids. G. A. Cozens. 1,704,692; Mar. 12.  
 Box connector, Outlet. M. M. Clayton. 1,699,280; Jan. 15.  
 Box construction. W. Maier. 1,708,700; Apr. 9.  
 Box construction. J. R. Myers. 1,736,720; Nov. 19.  
 Box construction. C. A. Smith and K. E. Berray. 1,706,328; Mar. 19.  
 Box construction, Cash. W. H. Dinspel. 1,721,588; July 23.  
 Box-covering machine. J. T. Robinson and G. E. Gooding. 1,727,562; Sept. 10.  
 Box device for motor vehicles, Rear. E. H. Coquille. 1,727,273; Sept. 3.  
 Box device, Outlet. E. H. Lewis. 1,723,047; Aug. 6.  
 Box distributor for fruit-packers' conveyers. C. H. Dempsey. 1,710,969; Apr. 30.  
 Box end and making the same. A. E. Cranston. 1,727,810; Sept. 10.  
 Box-ending machine. W. W. Woodworth. 1,730,549; Oct. 8.  
 Box for holding perfume bottles. L. M. Rebel. Des. 79,203; Aug. 13.  
 Box for newspapers and magazines, Deposit. H. B. Neal. 1,733,271; Oct. 29.  
 Box for printers, Clasting. F. R. Clark. 1,707,598; Apr. 2.  
 Box for the secret packing of hygienic rubber protective means or the like. R. Eisinger. 1,726,143; Aug. 27.

Box hook. J. F. Roberts. 1,738,844; Dec. 10.  
 Box lids, Making journal. J. W. Bettendorf. 1,707,043; Mar. 26.  
 Box lining. G. H. Fritzsche. 1,713,469; May 14.  
 Box lock, Safe-deposit. J. A. Katz. 1,728,127; Sept. 10.  
 Box machine. A. H. Dreux. 1,715,354; June 4.  
 Box machine and the like, Paper. G. Meyer-Jagenberg. 1,700,893; Feb. 5.  
 Box making. C. F. Sprague. 1,708,596; Apr. 9.  
 Box making and lidding machine. J. H. Hall. 1,698,478; Jan. 8.  
 Box-making machine. M. B. Claff and W. A. Joplin. 1,721,431; July 16.  
 Box-making machine. S. R. Howard. 1,716,853; June 11.  
 Box-making machine. C. L. Nuernberger. 1,711,648; May 7.  
 Box-making machine. G. Parks. 1,706,586; Mar. 26.  
 Box-making machine. W. W. Woodworth. 1,715,585; June 4.  
 Box-making machine, Paper. R. P. Frye. 1,733,255; Oct. 29.  
 Box mechanism, Journal. A. O. Buckius, jr. 1,711,040; Apr. 30.  
 Box mold. P. H. Henkel. 1,270,362; July 9.  
 Box mold, Meter. R. J. Wickey. 1,720,503; July 9.  
 Box mounting, Journal. J. F. O'Connor. 1,730,234; Oct. 1.  
 Box opener. L. Kurpiel. 1,700,682; Jan. 29.  
 Box opener. G. J. Pfister. 1,725,416; Aug. 20.  
 Box or binder. T. R. Walker. 1,726,968; Sept. 3.  
 Box or carton, Blank paper. G. A. Bell. 1,724,636; Aug. 13.  
 Box or case for containing, removing, and marketing produce and merchandise. G. G. Vial. 1,705,078; Mar. 12.  
 Box or container, Folding. I. Appelbaum. 1,731,996; Oct. 15.  
 Box or container, Packing. H. Hirsch. 1,711,348; Apr. 30.  
 Box or drawer for filing cards. F. E. Miller. 1,699,904; Jan. 22.  
 Box or holder, Match. G. Henggi. 1,729,481; Sept. 24.  
 Box or similar article, Jewel. W. M. Buttrick and R. P. Piperoux. Des. 77,889; Mar. 5.  
 Box or similar article, Powder-puff. R. E. McEldowney. Des. 79,236; Aug. 20.  
 Box or similar article, Puff. P. T. Frankl. Des. 78,280; Apr. 16.  
 Box or similar article, Puff. P. T. Frankl. Des. 78,512; May 14.  
 Box or similar container. L. A. Danco. Des. 78,506; May 14.  
 Box or similar receptacle. E. T. Bleecker. Des. 77,524; Jan. 22.  
 Box or the like, Paper. S. Bergstein. 1,714,542; May 28.  
 Box or the like, Paper. S. Bergstein. 1,738,815; Dec. 10.  
 Box-strap seal. J. E. Ott. 1,738,921; Dec. 10.  
 Box-strapping device. C. P. Stanbrough. 1,737,779; Dec. 3.  
 Box structure. H. B. Smith. 1,712,970; May 14.  
 Box-supporting ear. C. Newman and E. G. Appleton. Rel. 7,222; Feb. 26.  
 Box suspension for suction rolls. H. R. Farnsworth. 1,706,660; Mar. 26.  
 Box toe. J. E. Williams. 1,703,562; Feb. 26.  
 Box-wall-forming integer. A. E. Cranston. 1,716,767; June 11.  
 Box with cover. J. Kucera. 1,731,860; Oct. 15.  
 Box with self-locking bottom, Folding. R. Berkowitz. 1,700,733; Feb. 5.  
 Boxes and fire tubes of marine and like boilers, Apparatus for the removal of soot from the smoke. N. E. McClelland. 1,713,767; May 21.  
 Boxes and the like, Manufacturing paper. G. Meyer-Jagenberg. 1,699,799; Jan. 22.  
 Boxes, Apparatus for taping. H. B. Walter. 1,714,532; May 28.  
 Boxes, Attaching device for outlet. E. J. S. Swanson. 1,708,978; Apr. 16.  
 Boxes, Decorating. F. Goertz. 1,735,431; Nov. 12.  
 Boxes, Making. H. Bridgman. 1,705,748; Mar. 19.  
 Boxes of the slide and shell type, Apparatus for use in fitting together. W. E. Molins. 1,722,229; July 23.  
 Boxing mechanism. C. J. Fancher and R. A. Johnson. 1,712,494; May 14.  
 Boxing or casing machine. A. H. Kyler. 1,711,098; Apr. 30.  
 Brace: See—  
 Adjustable brace. Freight brace.  
 Bed-spring brace. Furniture brace.  
 Body brace. Handle-bar brace.  
 Boiler brace. Ladder brace.  
 Fence-post brace. Rail brace.  
 Building brace. Shoe inner brace.  
 Foot brace. Welded cross brace.  
 Brace. C. J. Gougler. 1,714,361; May 21.  
 Brace and bit therefor. R. Donze. 1,729,541; Sept. 24.  
 Brace and door guide, Combined. C. E. Ekland and W. W. Darrow. 1,729,768; Oct. 1.  
 Brace and hanger, Pipe. R. W. Livingston. 1,701,380; Feb. 5.  
 Brace and latch, Combination door. E. A. Tesch. 1,700,000; Jan. 22.  
 Brace and ring support, Ladder. J. H. Kellow. 1,715,605; June 4.



- Brace and trouser support, Shoulder. G. A. Smith. 1,699,453; Jan. 15.
- Brace for chandeliers. C. W. Logan. Des. 77,611-12; Jan. 29.
- Brace for chandeliers. F. Yokel. Des. 77,586; Jan. 22.
- Brace for furniture, Corner. W. O. Fought, jr. 1,736,195; Nov. 19.
- Brace for motion-picture cameras, Supporting. E. S. Bradfield. 1,709,387; Apr. 16.
- Brace for rotating implement handles, Detachable. E. M. Atkinson. 1,711,916; May 7.
- Brace for Windsor chairs and the like. T. H. Wittliff. 1,732,872; Oct. 22.
- Brace structure, Cross-. K. C. Gardner. 1,732,438; Oct. 22.
- Brace wrench. S. W. Hartley. 1,723,033; Aug. 6.
- Brace wrench. P. Rauch. 1,723,074; Aug. 6.
- Braced fence post. J. Burns. 1,699,461; Jan. 15.
- Bracelet. W. Forstner. 1,701,610; Feb. 12.
- Bracelet. W. Kuehner. 1,738,106; Dec. 3.
- Bracelet. S. L. Lederer. Des. 78,036; Mar. 19.
- Bracelet. E. Prestinari. 1,700,298; Jan. 29.
- Bracelet. A. E. R. Speidel. Des. 80,149; Dec. 17.
- Bracelet. E. F. M. Speidel. 1,726,773; Sept. 3.
- Bracelet. A. S. Turnquist. Des. 77,925; Mar. 5.
- Bracelet clasp. D. E. Katz. 1,703,490; Feb. 26.
- Bracelet construction. O. L. Gammell and R. W. Woodward. 1,720,174; July 9.
- Bracelet end hook. M. Anderson. 1,709,053; Apr. 16.
- Bracelet-extension device. G. Eklund. 1,701,972; Feb. 12.
- Bracelet for wrist watches, Cord. G. F. Brecht and A. C. Eckert. 1,731,370; Oct. 15.
- Bracelet, Mesh. F. W. Nittel. 1,736,166; Nov. 19.
- Bracelet, Necklace. J. M. Murray. 1,704,919; Mar. 12.
- Bracelet, necklace, or the like. W. Forstner. 1,726,700; Sept. 3.
- Bracelet vanity case. L. M. Schneider. 1,714,732; May 28.
- Bracelet, Watch. H. O. Bigney. 1,711,985; May 7.
- Bracelet. Wrist-watch. R. J. Schwarz. 1,700,084; Jan. 22.
- Bracelets, Connector member for watch. B. S. Samuels. 1,722,317; July 30.
- Bracelets. Extension device for. A. F. Kraemer. 1,723,625; Aug. 6.
- Bracing device for spring-bed structures. W. O. Lathrop. 1,714,226; May 21.
- Bracing member, Structural. M. H. Parish. 1,725,414; Aug. 20.
- Bracing, Oil-tank. L. A. Prescott. 1,718,833; June 25.
- Bracket: See—
- Awning bracket. Resilient-clip bracket.
- Brake bracket. Retaining-valve bracket.
- Brake-hanger bracket. Rod bracket.
- Bumper bracket. Roof bracket.
- Clamping bracket. Running-board bracket.
- Clothesline bracket. Scaffold bracket.
- Curtain bracket. Shade bracket.
- Curtain-rod bracket. Shelf bracket.
- Display bracket. Socket bracket.
- Easel bracket. Stanchion bracket.
- Engine bracket. Steam-gauge bracket.
- Hanger bracket. Strap bracket.
- Horn bracket. Supporting bracket.
- Instrument bracket. Tuner bracket.
- Ladder scaffold bracket. Valve bracket.
- Lamp bracket. Wall bracket.
- Mirror bracket. Window bracket.
- Partition bracket.
- Bracket. T. F. Cullinan. 1,704,883; Mar. 12.
- Bracket. R. H. Doyle. 1,724,829; Aug. 13.
- Bracket. H. Olson. 1,707,921; Apr. 2.
- Bracket. O. C. Ritz Woller. 1,716,940; June 11.
- Bracket and auxiliary shock absorber, Automobile bumper. F. Ungar. 1,739,930; Dec. 17.
- Bracket and guide, Car-door. K. J. Tobin. 1,708,525; Apr. 9.
- Bracket and making same, Spring. A. W. Frehse. 1,734,008; Oct. 29.
- Bracket for adjustable window ventilators. E. L. Newsum. 1,740,198; Dec. 17.
- Bracket for curtain poles, Supporting. F. J. Whincap. Des. 78,426; Apr. 30.
- Bracket for display fixtures. N. Mestel and J. Berman. 1,714,719; May 28.
- Bracket for draperies. R. Soukup. Des. 80,097; Dec. 10.
- Bracket for drapery pole or rod. G. Madvig. Des. 78,358; Apr. 23.
- Bracket for dynamo-electric machines, End. E. E. Dreese, and W. La Vigna. 1,725,784; Aug. 27.
- Bracket for dynamo-electric machines, End. W. La Vigna, and F. Malner. 1,725,806; Aug. 27.
- Bracket for frames, Corner. D. Zeik. 1,726,205; Aug. 27.
- Bracket for garment hangers, Supporting. C. R. Davis. 1,700,253; Jan. 29.
- Bracket for hand-truck brakes, Protector. O. W. Miller. 1,715,938; June 4.
- Bracket for ice cans, Off-center. J. A. Martocello. 1,739,978; Dec. 17.
- Bracket for lanterns. R. Panza. Des. 79,382; Sept. 10.
- Bracket for maps, Wall. J. G. McConnell. 1,704,755; Mar. 12.
- Bracket for mounting instruments on panel. D. E. Keeney. 1,731,199; Oct. 8.
- Bracket for railway cars, Retainer-valve. F. Mathews. 1,705,488; Mar. 19.
- Bracket for towel bars or similar articles. C. W. Warner and T. M. Keefe. Des. 79,771; Oct. 29.
- Bracket for trolley-wire guards, Hanger. M. Peirce. 1,704,990; Mar. 12.
- Bracket or article of analogous nature, Lighting-fixture wall. M. Rotellini. Des. 77,915; Mar. 5.
- Bracket or similar article, Electric wall. G. Hoch. Des. 79,813; Nov. 5.
- Bracket or similar article, Electric wall. G. Hoch. Des. 79,815; Nov. 5.
- Braid. A. C. Elisbewitz. Des. 77,478; Jan. 15.
- Braid, Artificial-wheat-straw. K. Aoyama. 1,712,017; May 7.
- Braid for curtains, lamp shades, or the like. M. Gornstein. Des. 79,710; Oct. 29.
- Braid, Ribbon-edged. J. Havel. 1,714,309; May 21.
- Braiding and lace machine, Crown beader for. A. Hombrucher. 1,732,720; Oct. 22.
- Braiding and wrapping machine. O. A. Frederickson. 1,704,888; Mar. 12.
- Braiding machine. S. B. Blaisdell. 1,737,405; Nov. 26.
- Braiding machine. S. B. Blaisdell. 1,742,126; Dec. 31.
- Braiding machine. S. W. Bourn. 1,727,096; Sept. 3.
- Braiding machine. O. A. Frederickson. 1,707,718; Apr. 2.
- Braiding machine. O. A. Frederickson. 1,725,450; Aug. 20.
- Braiding machine. A. Hopkinson. 1,722,376; July 30.
- Braiding-machine carrier. R. W. Hale. 1,723,159; Aug. 6.
- Braiding machines, Thread-controlling mechanism for. S. B. Blaisdell. 1,742,124-5; Dec. 31.
- Braidlidge decorations, Device for forming. J. A. Ost. 1,714,234; May 21.
- Brake: See—
- Air brake. Load brake.
- Automatic brake. Metal-bending brake.
- Automobile brake. Nonsquealing brake.
- Automotive brake. Power-operated brake.
- Band brake. Press brake.
- Caster-wheel brake. Railway brake.
- Cycle or like brake. Reverse brake.
- Drop brake. Sander brake.
- Drum brake. Scooter brake.
- Electropneumatic brake. Segmental brake.
- Emergency brake. Servo brake.
- Empty and load brake. Sled brake.
- Fluid-operated brake. Speed brake.
- Fluid-pressure brake. Steering-wheel brake.
- Four-wheel brake. Three-shoe brake.
- Friction brake. Trailer brake.
- Front-wheel brake. Truck brake.
- Hand brake. Vacuum brake.
- Hand-operated brake. Vacuum-operated brake.
- Hoist brake. Vehicle air-brake.
- Hydraulic brake. Vehicle brake.
- Internal brake. Wheel brake.
- Brake. W. J. Andres. 1,727,923; Sept. 10.
- Brake. L. Andrzejewski. 1,738,980; Dec. 10.
- Brake. V. Bendix. 1,705,850; Mar. 19.
- Brake. V. Bendix. 1,727,927; Sept. 10.
- Brake. L. Blackmore and F. E. Jones. 1,711,011; Apr. 30.
- Brake. W. T. Bonner. 1,716,026; June 4.
- Brake. A. J. Chanter. 1,710,146; Apr. 23.
- Brake. F. O. Christel. 1,737,357; Nov. 26.
- Brake. H. D. Church. 1,705,046; Mar. 12.
- Brake. A. Y. Dodge. Re17,373; July 16.
- Brake. A. Y. Dodge. 1,715,318; May 28.
- Brake. A. Y. Dodge. 1,728,671; Sept. 17.
- Brake. F. S. Duesenberg. 1,703,483; Feb. 26.
- Brake. J. Dunlop. 1,710,767; Apr. 30.
- Brake. M. J. Durning and J. M. McGowan. 1,724,568; Aug. 13.
- Brake. B. S. Ferguson. 1,727,539; Sept. 10.
- Brake. J. A. Geronprez. 1,725,907; Aug. 27.
- Brake. E. L. Harry. 1,696,951; Jan. 1.
- Brake. G. P. Henry. 1,726,739; Sept. 3.
- Brake. F. W. Hertrich and B. Cataline. 1,723,419; Aug. 6.
- Brake. L. C. Huck. 1,719,372; July 2.
- Brake. F. E. Jones and M. W. McConkey. 1,714,911; May 28.
- Brake. W. V. Justice and H. A. Stewart. 1,701,237; Feb. 5.
- Brake. E. G. L. Kindler. 1,711,602; May 7.
- Brake. R. F. Kohr. 1,726,743; Sept. 3.
- Brake. L. E. La Brie. 1,710,364; Apr. 23.
- Brake. L. E. La Brie. 1,731,384; Oct. 15.
- Brake. E. V. Lawrence. 1,724,292; Aug. 13.
- Brake. H. M. Leonard. 1,699,539; Jan. 22.
- Brake. V. Link. 1,697,533; Jan. 1.
- Brake. V. Link. 1,703,828; Feb. 26.
- Brake. K. E. Lyman and M. W. McConkey. 1,741,577; Dec. 31.
- Brake. E. J. Madden. 1,735,206; Nov. 12.
- Brake. E. C. Newcomb and E. O. Reynolds. 1,726,712; Sept. 3.
- Brake. C. H. North. 1,699,307; Jan. 15.
- Brake. J. F. O'Connor. 1,716,657; June 11.
- Brake. J. F. O'Connor. 1,716,864; June 11.
- Brake. J. F. O'Connor. 1,729,626; Oct. 1.
- Brake. J. F. O'Connor. 1,737,612; Dec. 3.
- Brake. J. Paul. 1,741,875; Dec. 31.
- Brake. P. W. Pomeroy. 1,717,936; June 18.



- Brake. E. P. Renaux. 1,715,211; May 28.  
 Brake. J. Riise. 1,699,208; Jan. 15.  
 Brake. R. S. Sanford. 1,705,737; Mar. 19.  
 Brake. R. S. Sanford. 1,737,025; Nov. 26.  
 Brake. C. A. Sawtelle. 1,724,148; Aug. 13.  
 Brake. J. E. Shepherd. 1,725,483; Aug. 20.  
 Brake. S. Smith. 1,706,635; Mar. 26.  
 Brake. W. J. Sovereign. 1,736,985; Nov. 26.  
 Brake. E. G. Sprung. 1,697,791; Jan. 1.  
 Brake. G. H. Stoner. 1,724,114; Aug. 13.  
 Brake. R. B. Stuckey. 1,708,338; Apr. 9.  
 Brake. G. J. Thomas. 1,719,858; July 9.  
 Brake. G. J. Thomas. 1,741,168; Dec. 31.  
 Brake. M. A. Thorne. 1,712,855; May 14.  
 Brake. W. Wilson. 1,741,178; Dec. 31.  
 Brake. S. Whitworth. 1,728,384; Sept. 17.  
 Brake-actuating mechanism. W. R. Hewitt. 1,702,777; Feb. 19.  
 Brake-actuating mechanism. S. Lankheet. 1,717,697; June 18.  
 Brake-adjusting mechanism, Automatic. C. O. Anderson. Re17,344; July 2.  
 Brake adjustment, Automatic. T. P. Chase and W. S. Lee. 1,714,900; May 28.  
 Brake and clutch band and making the same. G. M. Harry and C. Sternberger. 1,736,913; Nov. 26.  
 Brake and electropneumatic train-control system, Combined alternate-control locomotive air. F. H. Dukesmith. 1,698,719; Jan. 15.  
 Brake and stand for two-wheeled vehicles, Combined. M. E. Roe. 1,700,108; Jan. 22.  
 Brake apparatus. L. F. Mennier. 1,738,308; Dec. 3.  
 Brake apparatus. R. J. Norton. 1,720,853; July 16.  
 Brake apparatus for railway vehicles, Fluid-pressure. W. Hildebrand. 1,714,669; May 28.  
 Brake apparatus for vehicles. A. I. Van Leer. 1,734,839; Nov. 5.  
 Brake apparatus, Trailer-vehicle. N. A. Christensen. 1,707,974; Apr. 9.  
 Brake apparatus, Vehicle. N. A. Christensen. 1,707,973; Apr. 9.  
 Brake apparatus, Vehicle. N. A. Christensen. 1,739,783; Dec. 17.  
 Brake-applying apparatus. C. S. Bushnell. 1,703,835; Feb. 26.  
 Brake-applying connection. J. R. Cautley. 1,705,853; Mar. 19.  
 Brake-applying device, Pressure-equalizing. O. J. Frock. 1,721,213; July 16.  
 Brake-applying means. L. E. La Brie. 1,705,191; Mar. 12.  
 Brake-applying means. R. S. Sanford. 1,702,394; Feb. 19.  
 Brake-applying mechanism. K. E. Lyman. 1,711,119; Apr. 30.  
 Brake band. H. Borchers. 1,700,759; Feb. 5.  
 Brake band. H. B. Hills. 1,697,869; Jan. 8.  
 Brake-band-controlling device. O. Johnson. 1,710,025; Apr. 23.  
 Brake band for warp beams. T. C. Demers. 1,709,524; Apr. 16.  
 Brake-band-servicing machine. G. E. Weaver and H. C. Buffington. 1,717,130; June 11.  
 Brake band structure. D. M. Sarkisian. 1,698,513; Jan. 8.  
 Brake-beam chair, Adjustable. A. W. Hawkins. 1,701,923; Feb. 12.  
 Brake-beam safety iron. F. Izzo. 1,717,218; June 11.  
 Brake-beam support for railway trucks, Safety. J. McMullen. 1,727,835; Sept. 10.  
 Brake-beam support, Railway. C. R. Busch. 1,708,117; Apr. 9.  
 Brake-beam support, Railway-. S. A. Crone. 1,708,121; Apr. 9.  
 Brake bracket, Railway. J. A. Baker. 1,739,776; Dec. 17.  
 Brake-connecting-rod safety guard. E. G. Busse and H. W. Ekholm. 1,724,255; Aug. 13.  
 Brake construction. A. Y. Dodge. 1,705,855; Mar. 19.  
 Brake construction. J. W. Jackson. 1,715,555; June 4.  
 Brake construction. H. W. Muhleisen. 1,699,155; Jan. 15.  
 Brake construction. T. F. Rainsford. 1,732,418; Oct. 22.  
 Brake construction, Hydraulic-. A. Y. Dodge. 1,710,352; Apr. 23.  
 Brake control. L. E. La Brie. 1,711,118; Apr. 30.  
 Brake control. K. E. Lyman. 1,730,668; Oct. 8.  
 Brake control for power-propelled vehicles, Automatic. E. G. Staude. 1,738,675; Dec. 10.  
 Brake control for vehicles, Automatic. S. D. and S. D. Farmer. 1,709,254; Apr. 16.  
 Brake-control mechanism. D. C. Hinds. 1,725,982; Aug. 27.  
 Brake-control mechanism. V. Link. 1,713,842; May 21.  
 Brake control mechanism, Fluid-. A. F. Belitz. 1,703,860; Mar. 5.  
 Brake control, Regenerative. S. G. Down. 1,723,142; Aug. 6.  
 Brake-controlling mechanism. E. J. Madden. 1,736,046; Nov. 19.  
 Brake-controlling mechanism, Automatic. N. Warshaw. 1,741,215; Dec. 31.  
 Brake-controlling valve mechanism. W. L. Coop. 1,700,283; Jan. 29.  
 Brake-cylinder device. C. C. Farmer. 1,703,876; Mar. 5.  
 Brake cylinder, Hydraulic. J. M. Custenborder. 1,701,297; Feb. 5.  
 Brake cylinder, Hydraulic. F. H. Gleason and L. F. Goodspeed. 1,712,882; May 14.  
 Brake device, Automotive. S. G. Down. 1,733,186; Oct. 29.  
 Brake device for lifeboats. R. Libani. 1,740,027; Dec. 17.  
 Brake device, Fluid-pressure. E. S. Cook. 1,714,078; May 21.  
 Brake drum. V. Bendix. 1,720,815; July 16.  
 Brake drum. J. R. Cautley. 1,704,033; Mar. 5.  
 Brake drum. J. L. Price. 1,702,391; Feb. 19.  
 Brake drum. C. Sauzedde. 1,727,486; Sept. 10.  
 Brake-drum-grinding device. F. W. Parks. 1,714,103; May 21.  
 Brake drums and the like, Forming. J. E. Batle. 1,724,894; Aug. 20.  
 Brake drums, Detachable shoe for. R. L. Aumack. 1,730,492; Oct. 8.  
 Brake drums, etc., Device for refacing. J. N. Lint and R. M. Cook. 1,736,085; Nov. 19.  
 Brake drums, Forming. J. E. Batle. 1,738,224; Dec. 3.  
 Brake drums of malleable-iron disk automobile wheels, Hardening. T. R. Davis. 1,711,835; May 7.  
 Brake equalizer. J. C. Ginter. 1,711,886; May 7.  
 Brake equalizer. H. Jr., J., and W. Hughes. 1,704,435; Mar. 5.  
 Brake equalizer. L. E. La Brie. 1,727,994; Sept. 10.  
 Brake equalizer. C. S. Mobley. 1,717,616; June 18.  
 Brake-equalizing system, Vehicle. A. W. Marsden. 1,737,254; Nov. 26.  
 Brake equipment, Automotive. J. M. J. Dormoy. 1,723,140; Aug. 6.  
 Brake for aeroplanes. J. H. Kessler. 1,710,628; Apr. 23.  
 Brake for aeroplanes, Automatic landing. L. Breguet. 1,727,696; Sept. 10.  
 Brake for aeroplanes, Vacuum. L. R. McLauchlan. 1,710,938; Apr. 30.  
 Brake for automobiles and other vehicles. H. E. Dey. 1,735,529; Nov. 12.  
 Brake for automobiles, Reverse. M. A. Mikesh. 1,735,332; Nov. 12.  
 Brake for automotive vehicle, Friction. G. L. Smith. 1,734,535; Nov. 5.  
 Brake for centrifugals. R. A. Steps. 1,713,502; May 14.  
 Brake for controlling rotary motion. W. G. Wilson. 1,714,833; May 28.  
 Brake for differential mechanism. W. C. Smith. 1,726,591; Sept. 3.  
 Brake for forward rear axles of six-wheel drive. A. F. Masury. 1,720,424; July 9.  
 Brake for hand trucks. F. J. Miller. 1,730,676; Oct. 8.  
 Brake for motor-driven vehicles. H. E. Houseman. 1,736,082; Nov. 19.  
 Brake for motor vehicles, Liquid-operated. G. Fornaca. 1,706,394; Mar. 26.  
 Brake for motor-vehicle wheels. L. Rouanet. 1,735,507; Nov. 12.  
 Brake for railway cars, Foot. O. W. Lancaster. 1,739,365; Dec. 10.  
 Brake for railway cars, Hand. H. J. Lounsbury. 1,703,314; Feb. 26.  
 Brake for railways, Gripper. H. Pösentrup. 1,714,621; May 28.  
 Brake for road vehicles. R. A. Crockett. 1,731,160; Oct. 8.  
 Brake for transmission. A. Moorhouse. 1,701,586; Feb. 12.  
 Brake for use on vehicles. E. B. Boughton. 1,721,370; July 16.  
 Brake for vehicles. A. J. Rowledge. 1,731,177; Oct. 8.  
 Brake for vehicles. F. H. Royce. 1,731,178; Oct. 8.  
 Brake for vehicles, Coaster. E. Sachs. 1,731,728; Oct. 15.  
 Brake for vehicles, Wheel. J. V. Pugh and F. Anstey. 1,722,233; July 23.  
 Brake for warp beams of looms, Spring. G. Pickel. 1,697,084; Jan. 1.  
 Brake gearing for railway cars. H. C. Priebe. 1,735,055; Nov. 12.  
 Brake-gear mounting. G. Heidman. 1,701,754; Feb. 12.  
 Brake, Hanger bracket. T. K. Cummins. 1,729,569; Sept. 24.  
 Brake hangers, Manufacturing closed-link. F. Schaefer and W. A. Kern. 1,716,933; June 11.  
 Brake-hanger-suspending means. V. H. Harbert. 1,734,088; Nov. 5.  
 Brake head for railway cars, Safety. C. L. Preddy. 1,714,922; May 28.  
 Brake layout. A. W. Cataline. 1,712,949; May 14.  
 Brake lever. A. B. Freese. 1,717,675; June 18.  
 Brake lever. V. Willoughby. 1,699,650; Jan. 22.  
 Brake-lever attachment. S. I. Fakete. 1,715,997; June 4.  
 Brake-lever extension. S. I. Fakete. 1,734,249; Nov. 5.  
 Brake liner and making same. W. B. Wescott. 1,720,407; July 9.  
 Brake lining. H. E. Brey. 1,704,963; Mar. 12.  
 Brake lining. R. J. Evans. 1,700,037; Jan. 22.  
 Brake lining. T. F. Smith. 1,720,765; July 16.  
 Brake lining and making same. F. C. Stanley. 1,721,675; July 23.  
 Brake lining and making same. F. C. Stanley. 1,729,138; Sept. 24.  
 Brake-lining clamp. S. T. Jessop. 1,726,354; Aug. 27.  
 Brake linings, Making. S. Hughes. 1,721,696; July 23.  
 Brake lock. G. W. Druhe. 1,711,929; May 7.  
 Brake lock, Automobile air-. A. Hayes. 1,704,320; Mar. 5.  
 Brake means for aeroplanes. W. E. Thomasson. 1,722,509; July 30.  
 Brake mechanism. W. J. Andres. 1,708,167; Apr. 9.



- Brake mechanism. H. F. Blanchard. 1,707,781; Apr. 2.  
 Brake mechanism. R. B. Bukolt. 1,707,902; Apr. 2.  
 Brake mechanism. P. B. Camp. 1,723,722; Aug. 6.  
 Brake mechanism. N. A. Christensen. 1,701,142; Feb. 5.  
 Brake mechanism. N. A. Christensen. 1,739,781; Dec. 17.  
 Brake mechanism. F. C. Coseo. 1,726,015; Aug. 27.  
 Brake mechanism. J. C. Dawley and I. V. K. Hott. 1,719,691; July 2.  
 Brake mechanism. A. Y. Dodge. 1,705,856; Mar. 19.  
 Brake mechanism. A. Dow. 1,727,737; Sept. 10.  
 Brake mechanism. A. H. Edgerton. 1,729,932; Oct. 1.  
 Brake mechanism. B. S. Floraday. 1,705,472; Mar. 19.  
 Brake mechanism. B. S. Floraday. 1,719,507; July 2.  
 Brake mechanism. E. Heymann. 1,741,365; Dec. 31.  
 Brake mechanism. A. J. Jansson. 1,729,935; Sept. 24.  
 Brake mechanism. B. W. Keese. 1,715,416; June 4.  
 Brake mechanism. F. W. Lancaster. 1,699,896; Jan. 22.  
 Brake mechanism. L. P. Mooers. 1,705,529; Mar. 19.  
 Brake mechanism. J. F. O'Connor. 1,741,647; Dec. 31.  
 Brake mechanism. J. N. Pepin. 1,705,677; Mar. 19.  
 Brake mechanism. H. Perrot. 1,727,355; Sept. 10.  
 Brake mechanism. H. Pieper. 1,709,150; Apr. 16.  
 Brake mechanism. A. L. Roberts. 1,707,876; Apr. 2.  
 Brake mechanism. R. S. Sanford. 1,726,413; Aug. 27.  
 Brake mechanism. G. J. Zaccane. 1,734,935; Nov. 5.  
 Brake mechanism. Air-. A. L. Goodknight. 1,736,910; Nov. 26.  
 Brake mechanism, Duplex. E. P. Renaux. 1,705,836; Mar. 19.  
 Brake mechanism for automatic vehicles. C. S. Bragg and V. W. Kliersath. 1,741,819-20; Dec. 31.  
 Brake mechanism for automotive vehicles. C. S. Bragg. 1,713,992; May 21.  
 Brake mechanism for automotive vehicles. C. S. Bragg and V. W. Kliersath. 1,709,834; Apr. 23.  
 Brake mechanism for automotive vehicles, Power-actuated. C. S. Bragg and V. W. Kliersath. 1,741,817-18; Dec. 31.  
 Brake mechanism for hand-propelled vehicles, Automatic. R. Ford. 1,709,527; Apr. 16.  
 Brake mechanism for hoisting drums. E. E. Greve. 1,706,921; Mar. 26.  
 Brake mechanism for mining cars. E. N. Goins. 1,720,954; July 16.  
 Brake mechanism for railway cars. P. B. Camp. 1,741,148; Dec. 31.  
 Brake mechanism for railway cars. O. C. Duryea. 1,737,922; Dec. 3.  
 Brake mechanism for railway cars. F. H. Pletzsch. 1,724,512; Aug. 13.  
 Brake mechanism for steering wheels. N. E. Wahlberg. 1,721,721; July 23.  
 Brake mechanism, Power. A. L. Roberts. 1,734,403; Nov. 5.  
 Brake mechanism, Servo-. E. P. Renaux. 1,706,591; Mar. 26.  
 Brake mechanism, Tool-spindle. A. M. Johnson. 1,735,400; Nov. 12.  
 Brake mechanism, Vehicle. N. A. Christensen. 1,718,526; June 25.  
 Brake mechanism, Vehicle. M. Kicleski. 1,704,480; Mar. 5.  
 Brake mechanism, Vehicle wheel. N. A. Christensen. 1,739,782; Dec. 17.  
 Brake mounting. J. Sneed. 1,726,045; Aug. 27.  
 Brake oil guard. A. Y. Dodge. 1,709,250; Apr. 16.  
 Brake-operating connection. W. J. Andres. 1,708,168; Apr. 9.  
 Brake-operating connection. V. Bendix. 1,713,687; May 21.  
 Brake-operating connection. A. Y. Dodge. 1,723,646; Aug. 6.  
 Brake-operating connection. E. P. Renaux. 1,720,494; July 9.  
 Brake-operating device. A. Martzloff. 1,740,363; Dec. 17.  
 Brake-operating device for flat cars. W. D. Brewster. 1,711,470; Apr. 30.  
 Brake-operating means. W. J. Andres. 1,697,219; Jan. 1.  
 Brake-operating means. K. E. Lyman. 1,702,407; Feb. 19.  
 Brake-operating means. K. E. Lyman. 1,730,516; Oct. 8.  
 Brake-operating means, Hand-. A. F. Klasing. 1,704,438; Mar. 5.  
 Brake-operating means, Hand-. A. F. Klasing. 1,722,667; July 30.  
 Brake-operating means, Vehicle. F. W. Burger and B. Stockfeth. 1,708,009; Apr. 9.  
 Brake-operating mechanism. G. D. Hugo. 1,710,926; Apr. 30.  
 Brake-operating mechanism. G. F. Michael. 1,708,023; Apr. 9.  
 Brake-operating mechanism. W. V. Osborne. 1,709,092; Apr. 16.  
 Brake-operating mechanism. H. Perrot. 1,716,148; June 4.  
 Brake-operating mechanism. T. Reinartz. 1,717,408; June 18.  
 Brake-operating mechanism. B. F. Schmidt. 1,718,258; June 25.  
 Brake-operating mechanism. C. B. Scoville, Jr. 1,735,339; Nov. 12.  
 Brake-operating mechanism, Support for. J. P. Templeman. 1,730,596; Oct. 8.  
 Brake-operating shaft and its connection and mounting. R. S. Sanford. 1,725,020; Aug. 20.  
 Brake release. R. L. Gelger. 1,729,380; Sept. 24.  
 Brake release, Automatic emergency-. C. E. Ramey. 1,707,415; Apr. 2.  
 Brake release, Car air-. C. L. Meadows. 1,718,168; June 18.  
 Brake release for automobiles. A. Kossey. 1,716,824; June 11.  
 Brake-release mechanism for railway cars. J. O. Nelkirk and D. Hindahl. 1,736,048; Nov. 19.  
 Brake-relining machine. C. A. Olson, F. L. Buch, and T. E. Brooks. 1,702,569; Feb. 19.  
 Brake retainer. R. E. Manley. 1,721,227; July 16.  
 Brake rigging, Foundation. W. H. Sauvage. 1,738,485; Dec. 3.  
 Brake-rigging support, Auxiliary. F. M. Cowgill. 1,703,478; Feb. 26.  
 Brake rim, Water-cooled. E. H. Williams and J. C. Bush. 1,697,825; Jan. 1.  
 Brake rod. W. S. Adams. 1,739,341; Dec. 10.  
 Brake-rod-jaw connection. R. J. Scheibli, Jr. 1,699,546; Jan. 22.  
 Brake rotor, Ventilated. R. H. Rosenberg. 1,717,522; June 18.  
 Brake shaft. J. Sneed. 1,717,631; June 18.  
 Brake shaft and mounting therefor. A. Kearney. 1,720,078; July 9.  
 Brake-shaft holding means, Drop-. A. F. O'Connor. 1,701,540; Feb. 12.  
 Brake-shaft silencer. V. J. Harris. 1,714,779; May 28.  
 Brake shoe. V. Bendix. 1,732,349; Oct. 22.  
 Brake shoe. R. J. Burton. 1,719,211; July 2.  
 Brake shoe. L. E. La Brie. 1,728,618; Sept. 17.  
 Brake shoe. L. E. La Brie. 1,737,013; Nov. 26.  
 Brake shoe. D. Paterson. 1,729,010; Sept. 24.  
 Brake shoe. G. J. Thomas. 1,726,998; Sept. 3.  
 Brake shoe and holder. N. P. Sjobring and C. A. Christenson. 1,719,201; July 2.  
 Brake-shoe-operating device. W. Nowak. 1,720,188; July 9.  
 Brake shoes, Forming. H. Ford. 1,727,874; Sept. 10.  
 Brake shoes, Guiding means for. A. R. K. Djurson. 1,724,795; Aug. 13.  
 Brake shoes, Making. V. Bendix. 1,728,172; Sept. 17.  
 Brake step, Pressed-metal. H. Vissering. 1,734,547; Nov. 5.  
 Brake stop for drill feed shafts, Band-. A. M. Johnson. 1,735,401; Nov. 12.  
 Brake structure for automotive vehicles. M. E. Andrews. 1,718,021; June 18.  
 Brake system. N. A. Christensen. 1,724,127; Aug. 13.  
 Brake system, Air-. W. H. Sauvage. 1,738,395; Dec. 3.  
 Brake system and mechanism. E. Slade. 1,741,796; Dec. 31.  
 Brake system, Automobile. R. W. Todd. 1,725,769; Aug. 27.  
 Brake system, Fluid-operated. B. S. Floraday. 1,740,728; Dec. 24.  
 Brake system, Fluid-operated. M. Loughhead. 1,703,313; Feb. 26.  
 Brake system, Fluid-pressure. A. and E. A. Anderberg. 1,715,810; June 4.  
 Brake system, Four-wheel-. G. L. Smith. Re17,426; Sept. 3.  
 Brake system, Hydraulic. M. Charles. 1,721,372; July 16.  
 Brake tester, Automobile. F. B. McKinney and C. H. Allen. 1,719,516; July 2.  
 Brake-testing device. G. Steingruber. 1,723,819; Aug. 6.  
 Brake-valve device. J. C. McCune. 1,711,645; May 7.  
 Brake wheel for aeroplanes. C. E. Sparhawk. 1,732,544; Oct. 22.  
 Braking apparatus. M. Loughhead. 1,738,750; Dec. 10.  
 Braking apparatus. J. G. Utz. 1,721,890; July 23.  
 Braking apparatus, Fly-wheel-. J. W. Lorimer. 1,710,425; Apr. 23.  
 Braking apparatus, Railway. J. P. Coleman. 1,741,012; Dec. 24.  
 Braking arrangement. H. S. Cassel. 1,718,216; June 25.  
 Braking device. J. Sneed. 1,735,139; Nov. 12.  
 Braking device, Automobile. S. J. Moran. 1,720,340; July 9.  
 Braking device for aeroplanes. A. Kolody. 1,716,644; June 11.  
 Braking device for motor vehicles, Retrograde-movement. S. W. Albright. 1,740,137; Dec. 17.  
 Braking device for the steering gear of motor vehicles. E. Bugatti. 1,706,521; Mar. 26.  
 Braking, Electric. R. D. Krape and W. S. H. Hamilton. 1,706,173; Mar. 19.  
 Braking engine. R. Moore. 1,733,898; Oct. 29.  
 Braking mechanism. J. J. Dilks, Jr. 1,735,452; Nov. 12.  
 Braking mechanism, Automobile. E. L. Myers. 1,731,499; Oct. 15.  
 Braking mechanism for aerial machines. E. B. Boughton. 1,718,108; June 18.  
 Braking mechanism for car trucks. J. A. Nuetzel. 1,707,536; Apr. 2.  
 Braking mechanism for coaster wagons. E. S. Showers. 1,726,967; Sept. 3.  
 Braking mechanism for railroad trucks. E. L. Allington. 1,701,290; Feb. 5.  
 Braking mechanism for steering wheels. E. J. W. Ragsdale and G. A. Haederer. 1,701,862; Feb. 12.  
 Braking mechanism, more particularly for motor vehicles. G. R. Hoffman. Re17,412; Aug. 20.  
 Braking mechanism, Motor-vehicle. A. Moorhouse. 1,701,585; Feb. 12.



- Braking mechanism, Scooter. M. E. Roe. 1,700,109; Jan. 22.
- Braking mechanism, Vehicle. M. E. Roe. 1,700,110; Jan. 22.
- Braking system. A. De Coninck. 1,698,781; Jan. 15.
- Braking system. A. De Coninck. 1,709,661; Apr. 16.
- Braking system. M. W. McConkey. 1,729,887; Oct. 1.
- Braking system, Electropneumatic. H. Karl. 1,726,838; Sept. 3.
- Braking system, Fluid. A. E. Stephens. 1,730,953; Oct. 8.
- Braking system, Hydraulic. W. F. Harrington. 1,723,032; Aug. 6.
- Braking system, Hydraulic. J. S. Reynolds. 1,704,762; Mar. 12.
- Braking system, Hydraulic. J. S. Reynolds. 1,726,517; Aug. 27.
- Braking system, Regenerative. H. Osborne. 1,726,276; Aug. 27.
- Braking system, Vehicle. H. Perrot. 1,701,505; Feb. 12.
- Braking systems, Pressure mechanism for. M. Loughhead and E. F. Loweke. 1,707,063; Mar. 26.
- Brakes, Attachment for automobile. E. R. White. 1,732,997; Oct. 22.
- Brakes, clutches, or the like, Friction-resistive material for. R. L. R. Wild. 1,741,896; Dec. 31.
- Brakes, Slack adjuster for. J. R. Grube. 1,735,752; Nov. 12.
- Branding device. H. W. Whited. 1,716,937; June 11.
- Branding device. B. Willard. 1,706,200; Mar. 19.
- Branding or otherwise marking case ends and the like, Apparatus for. A. A. Simpson. 1,737,479; Nov. 26.
- Brass composition and producing the same. O. Junker. 1,699,665; Jan. 22.
- Brass for rolling-mill housings, Side. C. F. Peek. 1,740,781; Dec. 24.
- Brassière. K. E. Cunningham. 1,718,033; June 18.
- Brassière. G. M. P. Yerkes. 1,702,922; Feb. 19.
- Brassière. C. G. Whippy. 1,731,033; Oct. 8.
- Brassière and similar garment. I. Roth. 1,698,070; Jan. 8.
- Brazing. F. P. Vincent. 1,742,017; Dec. 31.
- Brazing alloys. R. T. Gillette. 1,706,154; Mar. 19.
- Brazing flux. J. J. Phelan. 1,717,250; June 11.
- Brazing machine. P. Lofy. 1,717,886; June 18.
- Bread. R. Lair. 1,697,391; Jan. 1.
- Bread box. J. Dierks. 1,732,643; Oct. 22.
- Bread making. C. J. Patterson and C. G. Harrel. 1,722,677; July 30.
- Bread-making plant and machinery. J. E. Pointon. 1,716,460; June 11.
- Bread, Manufacture of ordinary. J. Matti. 1,701,580; Feb. 12.
- Bread-wrapping machine. C. O. Brownell. 1,723,967; Aug. 6.
- Breaker-point mechanism. T. G. Louis. 1,740,515; Dec. 24.
- Breaker system, Automatic reclosing circuit. A. E. Anderson. 1,732,296; Oct. 22.
- Breaking apparatus, Joint. J. D. Nixon. 1,736,009; Nov. 19.
- Breaking animals' necks, Apparatus for. T. A. Smith. 1,720,100; July 9.
- Breaking machine. C. Jackson. 1,731,576; Oct. 15.
- Breaking the fins in swimming shoes, Device for preventing the. H. Beckert. 1,725,896; Aug. 27.
- Breast-anger T. C. E. Holt. 1,709,173; Apr. 16.
- Breather bag. T. C. E. Wilson. J. E. Moore, and G. W. Cheneck. 1,726,281; Aug. 27.
- Breathing appliances, Connecting ring for the belt of. H. Stelzner. 1,713,358; May 14.
- Breech mechanism for guns. G. M. McCann. 1,707,444; Apr. 2.
- Breeding mark for small animals. A. Reimer. 1,737,201; Nov. 26.
- Brick-anchoring member. G. P. Jackson. 1,712,078; May 7.
- Brick and block machine, Cement. A. R. Canfield. 1,729,984; Oct. 1.
- Brick and building therewith, Concrete. C. Mirabella, S. Tornadore, and L. Pantani. 1,710,833; Apr. 30.
- Brick and cement for furnace use. R. P. Heuer. 1,714,506; May 28.
- Brick and other clay products, Salt-glazing. S. H. Ivory. 1,735,167; Nov. 12.
- Brick and the like, Manufacture of porous. H. A. Stockmar. 1,740,631; Dec. 24.
- Brick, Arch. J. T. Anthony. 1,708,406; Apr. 9.
- Brick, Arch. J. T. Anthony. 1,721,267; July 16.
- Brick construction, Ventilated. R. J. Himmelright. 1,723,650; Aug. 6.
- Brick-cutter-synchronizing control. G. E. Luce. 1,732,238; Oct. 22.
- Brick-die front. C. E. Norton. 1,715,859; June 4.
- Brick-engobing machine. L. M. Mumford and R. F. Miller. 1,714,186; May 21.
- Brick-joint raker. W. A. Goff. 1,736,077; Nov. 19.
- Bricklaying machine. J. N. Youngblood. 1,736,812; Nov. 26.
- Brick lifter. G. E. Luce. 1,709,138; Apr. 16.
- Brick lifter. G. E. Luce. 1,710,096; Apr. 23.
- Brickmaking machine. F. T. Baum and C. G. Norris. 1,701,438; Feb. 5.
- Brickmaking machine. D. Strickland. 1,699,818; Jan. 22.
- Brickmaking machine and apparatus, Automatic. J. C. Pelton. 1,740,711; Dec. 24.
- Brick-making machinery. B. F. Hayden. 1,735,274; Nov. 12.
- Brick-molding machine, Automatic. M. S. Elton and G. E. Barnhart. 1,738,046; Dec. 3.
- Brick or analogous article, Face. D. F. Stevens. Des. 79,171; Aug. 6.
- Brick, Process and apparatus for forming face. S. M. Duty. 1,735,497; Nov. 12.
- Brick, Refractory arch. R. J. Himmelright. 1,737,239; Nov. 26.
- Brick-setting machine. G. E. Luce. 1,712,773; May 14.
- Brick shape for building blast-furnace linings and the like. J. C. Morehead. 1,740,258; Dec. 17.
- Brick-siding machine. J. and H. Fulenwider, E. W. Robinson, and H. Norris. 1,698,434; Jan. 8.
- Brick veneer and system. E. F. Kline. 1,711,026; Apr. 30.
- Bricks from press to rack and from rack to kiln, Apparatus for automatically transferring. G. J. Steele. 1,699,637; Jan. 22.
- Brickwork, Protecting furnace. R. S. Moore. 1,727,482; Sept. 10.
- Bridge. J. B. Strauss. 1,739,103; Dec. 10.
- Bridge, Bascule. J. B. Strauss. 1,714,699; May 28.
- Bridge, Bascule. J. B. Strauss. 1,730,595; Oct. 8.
- Bridge element. P. Ebeling. 1,733,587; Oct. 29.
- Bridge falsework tower. O. J. Marsten. 1,733,505; Oct. 29.
- Bridge for an ophthalmic mounting. C. O. Cozzens. Des. 78,379; Apr. 30.
- Bridge for stringed musical instruments. J. H. Wendell. 1,707,069; Mar. 26.
- Bridge, Lift. G. H. Allen and T. M. Hagenbook. 1,731,697; Oct. 15.
- Bridge member for an ophthalmic mounting. J. N. Nelson. Des. 79,527; Oct. 1.
- Bridge-scoring device. V. L. U. Gyth. 1,712,884; May 14.
- Bridge set, Combination. J. J. Buckley. 1,705,236; Mar. 12.
- Bridging. J. N. Heltzel. 1,729,741; Oct. 1.
- Bridging. W. E. White. 1,734,701; Nov. 5.
- Bridle strap for piano actions. H. E. Chute. 1,727,502; Sept. 10.
- Brief bag, Article-carrying. W. H. Beebler. 1,727,954; Sept. 10.
- Brief bag or case. S. H. Lifton. 1,710,582; Apr. 23.
- Brief case. C. Schell. Des. 78,901; July 2.
- Brief or similar case. M. Kerchmar. 1,702,905; Feb. 19.
- Brine tank. H. A. Greenwald and F. J. Heideman. 1,701,179; Feb. 5.
- Brine tank. H. A. Greenwald. 1,741,458; Dec. 31.
- Brine tank, Water-softener. O. R. Sweeney. 1,736,890; Nov. 26.
- Brines, Concentration of. W. E. Burke and H. de Ropp. 1,712,787; May 14.
- Briquette and making the same, Carbonaceous. H. F. Rippey, G. Davidson, C. N. Cone, I. F. Laucks, and H. P. Banks. 1,735,506; Nov. 12.
- Briquette machine. M. C. Reynolds. 1,709,155; Apr. 16.
- Briquetted charge and producing phosphorus and potash therefrom. W. H. Waggaman and H. W. Easterwood. 1,701,286; Feb. 5.
- Briquetting fine dust. E. A. Slagle and B. M. O'Harra. 1,741,544; Dec. 31.
- Briquettes, Apparatus for forming. C. W. Fernholtz. 1,701,915; Feb. 12.
- Briquettes or nonmolded lumps of comminuted minerals for metallurgical purposes and the product of said process, Process of making. L. L. Simpson. 1,729,496; Sept. 24.
- Bristle feed for brush machines. W. S. Elliott. 1,716,581; June 11.
- Bristles of brushes, Device for pointing. R. Izawa. 1,705,767; Mar. 19.
- Broach or the like. O. Lundell. 1,708,478; Apr. 9.
- Broaches, Adjustable finishing end for. F. J. Lapointe. 1,724,669; Aug. 13.
- Broadcasting by keys, Control of. A. D. Trenor. 1,712,181; May 7.
- Broadcasting over power lines, High-frequency. R. D. Duncan, Jr. 1,730,412; Oct. 8.
- Broading machine. F. B. Ballou. 1,709,967; Apr. 23.
- Broiler. B. F. Elbert. 1,711,778; May 7.
- Broiler. E. S. Parker. 1,715,617; June 4.
- Broiler. L. W. Serrell. 1,713,303; May 14.
- Broiler. J. L. Shroyer. 1,722,237; July 23.
- Broiler and roasting pan, Combined. M. A. Possons. 1,732,910; Oct. 22.
- Broiler and toaster, Combination. B. Shadley and W. A. Forrest. 1,720,552; Sept. 24.
- Broiler, Barbecue. C. F. Fernald. 1,723,145; Aug. 6.
- Broiler, Gas. H. W. O'Dowd. 1,707,276; Apr. 2.
- Broiler, Meat. J. P. Spang. 1,733,137; Oct. 29.
- Bronze dust from stamping mills, Apparatus for collecting. F. Sporer. 1,739,267; Dec. 10.
- Bronzing machine. W. Hollingsworth. 1,718,419; June 25.
- Brooch. A. Forberg. 1,739,220; Dec. 10.
- Brooch. J. L. Perkins. 1,724,511; Aug. 13.
- Brooch-bar pin, Combination. J. and S. Kaufer. 1,716,640; June 11.
- Brooch carrying removable letters or like figures. H. Dufau and V. Legard. 1,717,374; June 18.
- Brooch or similar article. B. Mechlovits. Des. 77,424; Jan. 8.



- Brooch or similar article. B. Mechlovits. Des. 77,968-9; Mar. 12.
- Brooch or similar article. B. Mechlovits. Des. 77,973; Mar. 12.
- Brooch or similar article. B. Mechlovits. Des. 78,039; Mar. 19.
- Brooch or similar article. B. Mechlovits. Des. 78,478; May 7.
- Brooch or similar article. B. Mechlovits. Des. 78,582; May 21.
- Brooch or similar article. B. Mechlovits. Des. 79,156; Aug. 6.
- Brooch or similar article. B. Mechlovits. Des. 80,137-9; Dec. 17.
- Brooch or similar article. B. Mechlovits. Des. 80,183; Dec. 24.
- Brooder. G. Allman and S. B. Hemming. 1,728,848; Sept. 17.
- Brooder. S. A. Borden. 1,720,758; July 16.
- Brooder. J. D. Huggins. 1,740,402; Dec. 17.
- Brooder. C. I. Nelson. 1,702,665; Feb. 19.
- Brooder. G. W. Oakes. 1,705,873; Mar. 19.
- Brooder. W. A. Pascoe. 1,732,139; Oct. 15.
- Brooder. L. T. Robinson. 1,736,625; Nov. 19.
- Brooder. A. F. Shuler. Re17,848; July 2.
- Brooder. G. M. Trollinger. 1,706,266; Mar. 19.
- Brooder and heating means therefor. R. A. Gorsuch. 1,734,481; Nov. 5.
- Brooder, Baby-chicken. H. D. Lockwood. 1,709,136; Apr. 16.
- Brooder, Chicken. A. L. Kuehl. 1,716,177; June 4.
- Brooder, Chicken. J. Szilagyi. 1,740,277; Dec. 17.
- Brooder heater. F. C. Hare. 1,741,565; Dec. 31.
- Brooder heater. V. D. Sipes. 1,707,146; Mar. 26.
- Broom. W. Dupré. 1,703,267; Feb. 26.
- Broom. E. L. Nelson. 1,730,677; Oct. 8.
- Broom. R. K. Thomson. 1,711,433; Apr. 30.
- Broom bridle. J. Bonanno. 1,712,729; May 14.
- Broom bridle. G. B. Hunter. 1,702,005; Feb. 12.
- Broom bridle. H. and F. Reiser. 1,730,164; Oct. 1.
- Broom for street-sweeping machines. J. H. Appleton. 1,727,627; Sept. 10.
- Broom rake. W. Withington. 1,706,507; Mar. 26.
- Broom-winding machine. J. M. Rauhoff. 1,727,042; Sept. 3.
- Brush. J. Adams. Re17,446; Oct. 1.
- Brush. L. Andrieu. 1,715,974; June 4.
- Brush. J. A. Charette. 1,703,510; Feb. 26.
- Brush. H. H. Crawford. 1,718,731; June 25.
- Brush. J. F. Dowd. 1,723,684; Aug. 6.
- Brush. H. F. Ebert. 1,706,058; Mar. 19.
- Brush. L. J. Johnson. 1,704,837; Mar. 12.
- Brush. H. D. Mitchell. 1,700,947; Feb. 5.
- Brush. J. F. Murphy. 1,726,161; Aug. 27.
- Brush. H. Nickels. 1,722,479; July 30.
- Brush. E. Rickersberg. 1,706,862; Mar. 26.
- Brush. R. Statuto. 1,735,802; Nov. 12.
- Brush. W. A. Uttz, sr. 1,726,089; Aug. 27.
- Brush. H. E. J. and J. H. Wackwitz. 1,722,545; July 30.
- Brush, Air. O. C. Wold. 1,703,219; Feb. 26.
- Brush and drier for printing presses, Hot-air. W. J. Price. 1,737,174; Nov. 26.
- Brush and mop holding handle. N. Hill. 1,735,644; Nov. 12.
- Brush and spray device, Combination. J. Federico. 1,713,647; May 21.
- Brush and spraying nozzle, Combination. E. Rickersberg. 1,741,435; Dec. 31.
- Brush and the like, Air. J. A. Paasche. 1,703,359; Feb. 26.
- Brush and the like, Shaving. L. Simmons. 1,729,909; Oct. 1.
- Brush appliance, Shaving. J. W. Lysons. 1,725,464; Aug. 20.
- Brush attachment for automobiles. M. Storch and I. Frank. 1,737,952; Dec. 3.
- Brush attachment for tubes containing cream, Shaving. J. W. Lysons. Des. 77,784; Feb. 19.
- Brush attachment, Shaving. W. E. Coddio. 1,739,211; Dec. 10.
- Brush attachment, Shaving. C. W. White. 1,720,868; July 16.
- Brush, Bath. J. Wissmar. 1,699,261; Jan. 15.
- Brush, Bottle. B. B. Jackson. Re17,249; Mar. 26.
- Brush, Bottle-washer. H. G. Volckening. 1,719,034; July 2.
- Brush, Cleaning. E. P. Cressler. 1,725,852; Aug. 27.
- Brush, Comb. L. Bushman. 1,711,486; May 7.
- Brush, Convertible shovel. J. Cipko. 1,712,135; May 7.
- Brush cutter. J. Svendsgaard. 1,710,749; Apr. 30.
- Brush, Dental cleaning. G. R. Touchstone. 1,720,017; July 9.
- Brush, Dynamo. N. R. Haas. 1,703,191; Feb. 26.
- Brush, Dynamo. N. R. Haas. 1,729,343; Sept. 24.
- Brush, Floor. H. H. Fitzgerald. 1,725,133; Aug. 20.
- Brush for dynamo-electric machinery. W. C. Kalb. 1,734,811; Nov. 5.
- Brush for meat blocks, Power-driven. R. L. Jackson. 1,702,007; Feb. 12.
- Brush for road-marking machines. W. S. Nissly. 1,714,397; May 21.
- Brush for road-sweeping machines. J. W. Jemmisson. 1,718,151; June 18.
- Brush, Fountain. J. Auld. 1,727,023; Sept. 3.
- Brush, Fountain. F. J. Carberry. 1,708,718; Apr. 9.
- Brush, Fountain. A. W. Dainos. 1,718,117; June 18.
- Brush, Fountain. J. H. Pitts. 1,701,795; Feb. 12.
- Brush, Fountain. J. J. Sitkin. 1,704,224; Mar. 5.
- Brush, Fountain. M. Soss. 1,722,686; July 30.
- Brush, Fountain. M. Soss. 1,739,872; Dec. 17.
- Brush from orchards, Mechanism for eliminating. A. B. Rush and P. Armilly. 1,702,173; Feb. 12.
- Brush, Gin. J. H. Jenkins. 1,709,021; Apr. 16.
- Brush insert, Individual-step. F. H. Stanwood. 1,698,005; Jan. 8.
- Brush, Hand. O. Aberle. 1,728,712; Sept. 17.
- Brush, Hand. R. T. R. Hastings. 1,723,349; Aug. 6.
- Brush holders, Quick-setting device for. H. Kleckler. 1,741,992; Dec. 31.
- Brush machine. C. Jobst. 1,706,450; Mar. 26.
- Brush machine. C. Jobst. 1,712,216; May 7.
- Brush-making machine. E. R. Lindstrom. 1,736,162; Nov. 19.
- Brush, Manicure. C. L. Farris. 1,732,508; Oct. 22.
- Brush, Massage. G. A. Henry. 1,705,249; Mar. 12.
- Brush, Military. E. M. Hill. Des. 78,752-3; June 18.
- Brush mounting for vacuum cleaners, etc. W. L. Lindgren. 1,712,923-4; May 14.
- Brush, Neck. R. M. Keele. 1,714,508; May 28.
- Brush or similar article. P. T. Frankl. Des. 78,281; Apr. 16.
- Brush, Paste. G. E. Miller. 1,706,408; Mar. 26.
- Brush, Plunger shaving. M. Alland. 1,711,516; May 7.
- Brush, Polishing. W. L. and C. G. Rein. 1,726,587; Sept. 3.
- Brush rake. W. L. Hawkins. 1,723,616; Aug. 6.
- Brush, Refillable shaving. J. A. Cuevas. 1,716,211; June 4.
- Brush rest and wiper, Combined. C. M. Grismer. 1,700,585; Jan. 29.
- Brush-retaining device. H. L. Myers. 1,719,072; July 2.
- Brush-ring mechanism for pipe painting. D. Morris. 1,718,757; June 25.
- Brush, Rotary. J. B. Carlson. 1,721,655; July 23.
- Brush, Rotary. L. C. Herold. 1,706,159; Mar. 19.
- Brush, Rotary. R. R. Radine. 1,714,137; May 21.
- Brush, Shaving. K. E. Beissbarth. 1,731,288; Oct. 15.
- Brush, Shaving. W. M. Neissl. 1,734,873; Nov. 5.
- Brush, Shaving. R. R. Russel. 1,716,739; June 11.
- Brush, Shaving. J. T. Scully. 1,701,961; Feb. 12.
- Brush-shifting device. J. I. Hull. 1,734,907; Nov. 5.
- Brush, Stipple. A. C. Sakowich. 1,700,079; Jan. 22.
- Brush supporting and adjusting means for vacuum cleaners. A. C. Cermak. 1,734,895; Nov. 5.
- Brush, Toilet. J. S. Wilcox. 1,730,703; Oct. 8.
- Brush, Twisted-wire-looped. G. Nelson. 1,711,741; May 7.
- Brush, Vacuum-cleaner. W. S. Simpson. 1,720,153; July 9.
- Brush, Wire. G. C. Cleaves. 1,713,027; May 14.
- Brushes, Apparatus for forming. C. Jobst. 1,706,451; Mar. 26.
- Brushes, Making cylindrical. A. A. Angell. 1,721,062; July 16.
- Brushes, Method and apparatus for manufacturing. A. V. Hart and J. T. Hart. 1,741,700; Dec. 31.
- Bubble blower. W. E. Colwell. 1,710,609; Apr. 23.
- Bubble blower. R. F. Warham. 1,733,478; Oct. 29.
- Bubble or blister glass. R. Haley. 1,715,130; May 28.
- Bubbler and drain basin for water coolers or the like, Combined. D. H. Wyatt. Des. 80,006; Nov. 26.
- Bucket. W. A. Hanscom. 1,714,863; May 28.
- Bucket. L. Smith and R. Richmond. 1,734,352; Nov. 5.
- Bucket, Aerial. W. R. Coleman. 1,704,556; Mar. 5.
- Bucket and boom conveying and distributing mechanism. S. Shafer, jr. 1,732,207; Oct. 15.
- Bucket and brush stand, Paper-hanger's. A. W. Whiteman. 1,716,405; June 11.
- Bucket and bucket elevator and dredge. F. H. Cothay. 1,710,473; Apr. 23.
- Bucket, Clamshell. E. L. Harrington. 1,727,825; Sept. 10.
- Bucket cleaner for trenching machines. C. L. George. 1,719,219; July 2.
- Bucket, Elevator. D. Geddes. 1,737,231; Nov. 26.
- Bucket, Excavator. J. Stub. 1,708,597; Apr. 9.
- Bucket for coffee urns, Leacher. H. D. Kelly. 1,736,265; Nov. 19.
- Bucket-forming machine, Excavating. A. J. Jacobsen. 1,710,985; Apr. 30.
- Bucket, Grab. E. E. Brosius. 1,717,549; June 18.
- Bucket, Grase. R. E. Manley. 1,715,462; June 4.
- Bucket, Minnow. J. L. Coleman and F. L. E. Ezzell. 1,731,921; Oct. 15.
- Bucket or similar receptacle, Ice. L. Levien. 1,711,536; May 7.
- Bucket-position-indicating means for hoists. I. W. Macy. 1,712,045; May 7.
- Bucket-unloading device for excavators. G. H. Greiman. 1,719,328; July 2.
- Bucket with squeezing device. M. Pelz. 1,708,323; Apr. 9.
- Buckle. O. G. Agnini and R. Singer. 1,698,114; Jan. 8.
- Buckle. P. F. Ashton. Des. 79,782; Nov. 5.
- Buckle. E. B. Barker. Des. 79,544; Oct. 8.
- Buckle. E. B. Barker. Des. 79,582; Oct. 15.
- Buckle. O. F. Carlson. 1,718,274; June 25.
- Buckle. W. H. Carroll. 1,737,492; Nov. 26.
- Buckle. J. E. Freysinger. Des. 79,707-8; Oct. 29.
- Buckle. J. B. Freysinger. Des. 79,795-9; Nov. 5.
- Buckle. J. B. Freysinger. 1,727,541; Sept. 10.



- Buckle, R. Guenther. 1,718,291; June 25.  
 Buckle, A. F. Kraemer. 1,712,735; May 14.  
 Buckle, J. R. La Vigne. Des. 79,521-3; Oct. 1.  
 Buckle, W. L. Myers. Des. 79,526; Oct. 1.  
 Buckle, W. L. Myers. Des. 79,564; Oct. 8.  
 Buckle, W. L. Myers. Des. 79,602; Oct. 15.  
 Buckle, W. L. Myers. Des. 79,899; Nov. 12.  
 Buckle, W. L. Myers. Des. 79,933; Nov. 19.  
 Buckle, A. Prima. 1,741,876; Dec. 31.  
 Buckle, N. D. Richards. Des. 77,789; Feb. 19.  
 Buckle, O. G. Sherman. 1,712,096; May 7.  
 Buckle, H. Tonks. Des. 78,173; Apr. 2.  
 Buckle, E. E. Weller. Des. 79,779; Oct. 29.  
 Buckle, F. H. Wiethorn. 1,717,824; June 18.  
 Buckle, T. H. Wightman. Des. 79,863; Nov. 5.  
 Buckle, T. H. Wightman. Des. 79,939; Nov. 19.  
 Buckle, T. H. Wightman. Des. 80,004; Nov. 26.  
 Buckle, T. H. Wightman. Des. 80,065; Dec. 3.  
 Buckle and making it. A. W. Wadsworth. 1,708,985; Apr. 16.  
 Buckle and making same. J. M. Glaser. 1,701,531; Feb. 12.  
 Buckle and strap attachment, Slide. F. Hirsh. 1,719,469; July 2.  
 Buckle and trace-supporting loop, Combined backband. W. L. Bectan. 1,734,414; Nov. 5.  
 Buckle, Apparel. A. H. Kerngood. 1,738,477; Dec. 3.  
 Buckle attachment, Wear-hook-. W. A. Sinkler. 1,739,618; Dec. 17.  
 Buckle, Bathing-belt. C. Rosenblum. 1,719,903; July 9.  
 Buckle, Belt. J. F. Carpmill. 1,722,896; July 30.  
 Buckle, Belt. R. F. Eichner. Des. 77,946; Mar. 12.  
 Buckle, Belt. R. F. Eichner. Des. 78,347; Apr. 23.  
 Buckle, Belt. R. F. Eichner. Des. 78,565; May 21.  
 Buckle, Belt. R. F. Eichner. Des. 79,018; July 23.  
 Buckle, Belt. W. C. Foster. 1,713,221; May 14.  
 Buckle, Belt. M. I. Gans. 1,722,140; July 23.  
 Buckle, Belt. F. M. Hale. 1,729,479; Sept. 24.  
 Buckle, Belt. F. M. Hale. 1,738,576; Dec. 10.  
 Buckle, Belt. J. Heberling. 1,716,440; June 11.  
 Buckle, Belt. W. C. Henry. 1,738,900; Dec. 10.  
 Buckle, Belt. F. Hirsh. Des. 78,552; May 14.  
 Buckle, Belt. T. J. Lowery. 1,729,952; Oct. 1.  
 Buckle, Belt. E. H. Marcus. 1,723,742; Aug. 6.  
 Buckle, Belt. E. S. Mix. Des. 80,140; Dec. 17.  
 Buckle, Belt. C. Ritter. Des. 80,089; Dec. 10.  
 Buckle, Belt. S. Sampson. Des. 77,983; Mar. 12.  
 Buckle, Belt. L. W. Shields. Des. 78,590; May 21.  
 Buckle, Belt. R. Slote. Des. 77,791; Feb. 19.  
 Buckle, Belt. R. Slote. Des. 77,918-23; Mar. 5.  
 Buckle, Belt. H. C. Vaisey. Des. 77,378; Jan. 1.  
 Buckle, Belt. H. C. Vaisey. Des. 77,926; Mar. 5.  
 Buckle, Belt. H. C. Vaisey. Des. 78,369; Apr. 23.  
 Buckle, Belt. C. C. Veneman. 1,702,674; Feb. 19.  
 Buckle, Belt. O. E. Wardner. Des. 80,252-3; Dec. 31.  
 Buckle, Cast-off. A. H. Kerngood. 1,705,978; Mar. 19.  
 Buckle, Clamping pants. F. H. Snyder. 1,726,085; Aug. 27.  
 Buckle fastener for wrist-watch straps, bracelets, and the like. A. Blustein. 1,723,401; Aug. 6.  
 Buckle for adjustable neckties. L. A. Gumport. 1,712,209; May 7.  
 Buckle or similar article. T. H. Wightman. Des. 80,155; Dec. 17.  
 Buckle or similar article, Shoe. M. Mann. Des. 79,834-5; Nov. 5.  
 Buckle or similar article, Shoe. M. Mann. Des. 80,038; Dec. 3.  
 Buckle, Separable. A. F. Kraemer. 1,712,734; May 14.  
 Buckle, Shield. R. M. Swindler. 1,740,047; Dec. 17.  
 Buckle, Shoe. R. C. Bangs. 1,728,281; Sept. 17.  
 Buckle, Shoe. S. M. Riker. Des. 78,939-41; July 9.  
 Buckle, Shoe. S. M. Riker. Des. 79,204-11; Aug. 13.  
 Buckle, Shoe. S. M. Riker. Des. 79,238; Aug. 20.  
 Buckle, Shoe. S. M. Riker. Des. 79,240; Aug. 20.  
 Buckle, Shoe. S. M. Riker. Des. 79,481; Sept. 24.  
 Buckle, Shoe. S. M. Riker. Des. 79,568-72; Oct. 8.  
 Buckle, Shoe. S. M. Riker. Des. 79,605-8; Oct. 15.  
 Buckle, Shoe. S. M. Riker. Des. 79,664-7; Oct. 22.  
 Buckle, Shoe. S. M. Riker. Des. 80,186; Dec. 24.  
 Buckle, Slide. J. Salisbury. 1,714,924; May 28.  
 Buckle, Snap. O. G. Agnini and R. Singer. 1,698,115; Jan. 8.  
 Buckle, Strap. A. F. Bernard. 1,737,404; Nov. 26.  
 Buckle, Suspender. W. A. Ormsbee. Des. 79,843; Nov. 5.  
 Buckle, Suspender. L. W. Shields. Des. 78,410-13; Apr. 30.  
 Buckle, Webbing. J. B. Russ. 1,704,261-2; Mar. 5.  
 Buckle, Webbing. C. E. Smith. 1,704,264; Mar. 5.  
 Buckles, Making. H. G. Norwood. 1,734,443; Nov. 5.  
 Buckram, Preparing. S. Harary. 1,712,991; May 14.  
 Buff, G. B. Hogaboom. 1,716,056; June 4.  
 Buffer. E. A. Banschbach. 1,698,182; Jan. 8.  
 Buffer and holder, Door. J. H. Basinger. 1,739,940; Dec. 17.  
 Buffer, Assembler-chute. G. H. Morael. 1,697,128; Jan. 1.  
 Buffer, Bias. H. Zimmerman. 1,728,586; Sept. 17.  
 Buffer for cleaning and similar tools. H. J. Moore. 1,740,474; Dec. 24.  
 Buffer mechanism for diaphragm face plates. A. E. Small. 1,723,448; Aug. 6.  
 Buffing and cementing. S. Malke. 1,718,793; June 25.  
 Buffing and polishing machine. G. A. Carlson. 1,738,356; Dec. 3.  
 Buffing device. W. L. Goodstein. Ref17,366; July 9.  
 Buffing device. C. A. Peters. 1,730,239; Oct. 1.  
 Buffing machine. R. M. Fotheringham. 1,708,569; Apr. 9.  
 Buffing machine. W. M. Spry. 1,739,660; Dec. 17.  
 Buffing machines. Dust hood for. J. W. Morris. 1,722,853; July 30.  
 Buffing mechanism. E. F. Carry. 1,697,045; Jan. 1.  
 Buffing mechanism. H. J. Lounsbury. 1,699,795; Jan. 22.  
 Buffing operation. F. L. Yerges. 1,728,585; Sept. 17.  
 Buffing wheel. E. S. Herberg. 1,715,862; June 4.  
 Buffing-wheel cloth and making the same. B. H. Divine. 1,737,574; Dec. 3.  
 Builder, Bunch. J. M. Sizemore, L. B. Jones, and E. D. Sizemore. 1,702,093; Feb. 12.  
 Builder set. C. I. Sweet. 1,707,691; Apr. 2.  
 Building. F. E. d'Humy and V. Weidner. 1,704,500; Mar. 5.  
 Building. W. E. Leibing. Des. 78,638; May 28.  
 Building. G. Mundwiler. Des. 79,977; Nov. 26.  
 Building and elevator structure. E. E. Klanke. 1,709,914; Apr. 23.  
 Building and elevator, Vehicle storage. E. Chaudoir. 1,697,345; Jan. 1.  
 Building apparatus. R. M. Adam. 1,720,987; July 16.  
 Building armatures. V. G. Apple. Ref17,353; July 2.  
 Building block. B. O. E. Fenberg. 1,699,351; Jan. 15.  
 Building block. C. C. Heinzmann. 1,736,595; Nov. 19.  
 Building block. H. M. Knight. 1,709,403; Apr. 16.  
 Building block. L. S. Munson. Ref17,291; May 7.  
 Building block. J. J. Whitacre. 1,696,992; Jan. 1.  
 Building block. Horizontally-cored. R. G. Bone. 1,727,363; Sept. 10.  
 Building block, Three-walled. R. G. Bone. 1,727,362; Sept. 10.  
 Building brace. R. Menes. 1,742,045; Dec. 31.  
 Building concrete surfacing structures. P. J. McInerney. Ref17,361; July 2.  
 Building construction. R. A. Ballenger. 1,701,714; Feb. 12.  
 Building construction. A. F. Bemis. 1,741,219; Dec. 31.  
 Building construction. L. C. Bennett. 1,699,651; Jan. 22.  
 Building construction. J. Clydesdale. 1,717,495; June 18.  
 Building construction. M. S. Darrow. 1,707,255; Apr. 2.  
 Building construction. C. E. Deakin. 1,702,687; Feb. 19.  
 Building construction. J. Ehrhardt, jr. 1,708,498; Apr. 9.  
 Building construction. G. H. Ellis. 1,725,787; Aug. 27.  
 Building construction. C. N. Forrest. 1,700,930; Feb. 5.  
 Building construction. T. J. Foster. 1,717,444; June 18.  
 Building construction. T. J. Foster. 1,739,754; Dec. 17.  
 Building construction. H. H. Gates. 1,702,340; Feb. 19.  
 Building construction. S. A. Gritzner. 1,724,577; Aug. 13.  
 Building construction. M. G. Hilpert and C. Weiss. 1,699,697; Jan. 22.  
 Building construction. A. M. Hull. 1,732,752; Oct. 22.  
 Building construction. E. C. Hurlbert. 1,707,858; Apr. 2.  
 Building construction. M. M. Imshenetsky and J. I. Gromeko. 1,724,284; Aug. 13.  
 Building construction. R. T. Johnson. 1,701,679; Feb. 12.  
 Building construction. R. A. Laidlaw. 1,705,409; Mar. 12.  
 Building construction. H. B. Littlefield. 1,726,400; Aug. 27.  
 Building construction. J. F. Loucks. 1,699,074; Jan. 15.  
 Building construction. P. L. McKee. 1,728,688; Sept. 17.  
 Building construction. O. A. Pedersen. 1,714,987; May 28.  
 Building construction. O. E. Roberts, jr., and H. H. Sheets. 1,719,782; July 2.  
 Building construction. R. H. Trouth. 1,708,162-3; Apr. 9.  
 Building construction. W. E. White. 1,733,765; Oct. 29.  
 Building construction. W. H. Wilson and H. Westberg. 1,739,883; Dec. 17.  
 Building construction. E. M. Winter. 1,726,169; Aug. 27.  
 Building construction and plastic block for making the same. A. F. Lewis. 1,704,255; Mar. 5.  
 Building construction and resulting product. A. F. Bemis. 1,717,546; June 18.  
 Building construction, Fireproof. J. Lally. 1,703,113; Feb. 26.  
 Building construction, Metal and concrete. U. C. Thies. 1,735,827; Nov. 12.  
 Building construction, Sheet-metal foundation for. J. F. Loucks. 1,714,682; May 28.  
 Building, Earthquake and tornado proof. P. Pierl. 1,706,496; Mar. 26.  
 Building element, Metallic. J. A. Bohnsack. 1,705,173; Mar. 12.  
 Building elements, Making hollow monolithic. E. Pauly. 1,699,568; Jan. 22.  
 Building fabric. O. A. Frederickson. 1,715,080; May 28.  
 Building felt, Production of. R. P. Perry. 1,707,491; Apr. 2.  
 Building floors with ducts. T. E. Murray. 1,730,472; Oct. 8.  
 Building form, Collapsible. E. B. Selway. 1,703,499; Feb. 26.  
 Building form, Concrete. A. H. Pape. 1,717,579; June 18.  
 Building front, Amusement. J. Whiteley. Des. 78,701; June 4.  
 Building, Garage or storage. A. D. McBride. 1,725,991; Aug. 27.  
 Building jack. P. Beghetti. 1,698,687; Jan. 8.  
 Building levees and embankments. A. J. Shea. 1,733,136; Oct. 29.  
 Building machine, Band. E. F. Maas. 1,706,626; Mar. 26.



- Building machine, Heel-base. C. O. Ryberg. 1,737,129; Nov. 26.
- Building material. F. and I. Himmel. 1,741,299; Dec. 31.
- Building material. E. S. Miller, R. W. Stambaugh, and G. W. McKown. 1,735,259; Nov. 12.
- Building material. H. B. Pullar. 1,701,630; Feb. 12.
- Building material. T. Robinson. 1,698,242; Jan. 8.
- Building material. B. F. Williamson. 1,716,749; June 11.
- Building material. J. H. Young. 1,720,708; July 16.
- Building material, Insulating. F. D. Hazen and J. H. Antill. 1,702,776; Feb. 19.
- Building of wall structures, Method of and apparatus for facilitating the. A. N. Young. 1,706,971; Mar. 26.
- Building, Ornamental. G. H. Natzel, F. E. Jackson, and J. A. Koehl. 1,713,050; May 14.
- Building piers. J. S. Miller. 1,706,246; Mar. 19.
- Building-pile form. L. Pierce. Re17,367; July 9.
- Building products, Method and apparatus for making. T. Robinson. 1,716,506; June 11.
- Building, Reinforced-concrete and like. A. Godenir. 1,736,494; Nov. 19.
- Building sheets, Securing means for corrugated. L. Lane. 1,711,415; Apr. 30.
- Building slab, plate, or member. H. Fritz. 1,718,131; June 18.
- Building, Storage. M. D. East. 1,704,429; Mar. 5.
- Building, Store. H. E. Webb and G. F. Seames. Des. 80,063; Dec. 3.
- Building structure. F. H. Auld. 1,708,351; Apr. 9.
- Building structure. R. G. Cory. 1,730,645; Oct. 8.
- Building structure. J. P. Hickey. 1,718,234; June 25.
- Building structure. J. T. M. Jones. 1,708,413; Apr. 9.
- Building structure. H. Jucho. 1,702,406; Feb. 19.
- Building structure. F. M. Venzie. 1,735,886; Nov. 19.
- Building unit. A. F. Bemis. 1,709,893; Apr. 23.
- Building unit. A. F. Bemis. 1,715,587; June 4.
- Building unit. M. Miller. 1,711,241; Apr. 30.
- Building unit and securing means therefor. W. H. Flood. 1,733,589; Oct. 29.
- Building units, Method and apparatus for constructing. O. A. Pedersen. 1,700,512; Jan. 29.
- Buildings, Construction of. H. J. Schubert. 1,732,620; Oct. 22.
- Bulb adjuster. G. H. Coulter. 1,729,610; Oct. 1.
- Bulb dropper. J. F. Wheeler. 1,733,218; Dec. 3.
- Bulb, Electric. G. Niebel. Des. 78,041; Mar. 19.
- Bulb of the three-electrode type, Electric. C. L. A. M. Leblanc. 1,702,785; Feb. 19.
- Bulb or similar article, Electric. G. Niebel. Des. 79,303-5; Aug. 27.
- Bulkheads in oil-carrying ships, Disposition of. C. Ono. 1,699,709; Jan. 22.
- Bullet and making the same, Small-caliber rifle. J. M. Olin and A. G. Schuricht. 1,732,211; Oct. 15.
- Bullet for high-power rifles. S. Rousseau. 1,715,788; June 4.
- Bulletin board, blackboard, and the like. F. S. Blue. 1,727,332; Sept. 10.
- Bumper. D. L. Benton. 1,697,587; Jan. 1.
- Bumper. H. A. Delano. 1,697,496; Jan. 1.
- Bumper. R. B. Fageol. 1,723,774; Aug. 6.
- Bumper. O. H. Goetz. 1,697,975; Jan. 8.
- Bumper. F. H. Goodrich. 1,698,696; Jan. 8.
- Bumper. F. H. Goodrich. 1,715,652; June 4.
- Bumper. C. Gossman. 1,730,502; Oct. 8.
- Bumper. A. M. Hudson. 1,726,956; Sept. 3.
- Bumper. A. M. Jacobs. 1,727,982; Sept. 10.
- Bumper. J. A. Jacobs. 1,705,119; Mar. 12.
- Bumper. H. S. Jandus. Des. 78,709; June 11.
- Bumper. H. S. Jandus. 1,718,785; June 25.
- Bumper. H. S. Jandus. 1,721,220; July 16.
- Bumper. H. S. Jandus and R. A. Flum. 1,713,384; May 14.
- Bumper. H. S. Jandus and F. H. Goodrich. 1,739,235; Dec. 10.
- Bumper. H. S. Jandus and E. R. Keelor. Des. 77,553; Jan. 22.
- Bumper. H. S. Jandus and J. R. Morgan. Des. 78,708; June 11.
- Bumper. H. S. Jandus and C. E. Rasmussen. Des. 78,764; June 18.
- Bumper. H. S. Jandus and N. Van Husen. Des. 79,234; Aug. 20.
- Bumper. C. J. Maier. 1,699,473; Jan. 15.
- Bumper. E. H. McCloud. 1,701,008; Feb. 5.
- Bumper. E. H. McCloud. 1,710,177; Apr. 23.
- Bumper. E. H. McCloud. 1,712,671; Apr. 14.
- Bumper. R. W. Nilsson. 1,732,166; Oct. 15.
- Bumper. W. F. Persons. 1,713,445; May 14.
- Bumper. E. A. Sobel. Re17,255; Apr. 2.
- Bumper. C. Spear. 1,724,431; Aug. 13.
- Bumper. G. W. Veale. 1,739,272; Dec. 10.
- Bumper. G. W. Veale. 1,740,527; Dec. 24.
- Bumper. J. B. Vidach. 1,729,731; Oct. 1.
- Bumper. F. C. Walter. Des. 78,236; Apr. 9.
- Bumper. W. F. Williams. 1,704,995; Mar. 12.
- Bumper. G. W. Yanss. 1,703,700; Feb. 26.
- Bumper and bumper-extension device, Automobile. A. C. Hansen. 1,723,508; Aug. 6.
- Bumper and bumper support. A. W. Nordgren. 1,706,806; Mar. 26.
- Bumper and clamp, Automobile. O. H. Goetz. 1,703,878; Mar. 5.
- Bumper and clamp, Automobile. O. H. Goetz. 1,703,931; Mar. 5.
- Bumper and jack for automobiles, Combined. A. C. Hoecker. 1,737,720; Dec. 3.
- Bumper and luggage carrier, Combined rear. J. F. Tribble. 1,702,553; Feb. 19.
- Bumper and shock absorber, Combined. H. Van Gelder. 1,698,207; Jan. 8.
- Bumper, Automobile. H. R. Beaver. 1,702,027; Feb. 12.
- Bumper, Automobile. F. G. Bremer. 1,727,365; Sept. 10.
- Bumper, Automobile. B. W. P. Coghlin. 1,738,286; Dec. 3.
- Bumper, Automobile. C. Costaganna. 1,740,576; Dec. 24.
- Bumper, Automobile. A. Finn. 1,703,030; Feb. 19.
- Bumper, Automobile. O. H. Goetz. 1,703,665-6; Feb. 26.
- Bumper, Automobile. O. H. Goetz. 1,703,930; Mar. 5.
- Bumper, Automobile. O. H. Goetz. 1,703,932; Mar. 5.
- Bumper, Automobile. W. G. Hardy. 1,702,941; Feb. 19.
- Bumper, Automobile. F. Howe. 1,701,074; Feb. 5.
- Bumper, Automobile. H. S. Jandus. Des. 79,817; Nov. 5.
- Bumper, Automobile. C. H. Kauffung. 1,739,074; Dec. 10.
- Bumper, Automobile. F. J. Laher. 1,712,706; May 14.
- Bumper, Automobile. J. J. Maseuch. 1,710,175; Apr. 23.
- Bumper, Automobile. W. R. McGowen. Des. 78,643; May 28.
- Bumper, Automobile. C. Offenhauser. 1,709,483; Apr. 16.
- Bumper, Automobile. G. H. Palmer. 1,723,366; Aug. 6.
- Bumper, Automobile. J. Schulman. 1,708,804; Apr. 9.
- Bumper, Automobile. W. A. Starck. 1,717,896-7; June 18.
- Bumper, Automobile. R. W. and A. Sylvester. 1,715,577; June 4.
- Bumper, Automobile. G. Ventura. 1,702,675; Feb. 19.
- Bumper, Automobile. J. S. Wernig. 1,705,040; Mar. 12.
- Bumper bar. A. M. Duncan. 1,739,218; Dec. 10.
- Bumper bar, Automobile. W. A. Starck. Des. 78,663; May 28.
- Bumper bracket, Automobile. W. R. McGowen. 1,716,318; June 4.
- Bumper bracket, Automobile. G. W. Yanss. 1,702,069; Feb. 12.
- Bumper, Cable. R. H. Rosenberg. 1,701,308; Feb. 5.
- Bumper clamp. H. S. Jandus. 1,713,385; May 14.
- Bumper clamp. H. S. Jandus. 1,734,488; Nov. 5.
- Bumper clamp. H. S. Jandus. 1,735,901; Nov. 19.
- Bumper construction. A. W. Nordgren and G. A. Burandt. 1,704,146; Mar. 5.
- Bumper construction, Front-. I. Ornberg. Des. 78,647; May 28.
- Bumper, container, tent, and car cover, Combination. J. H. Herzer. 1,719,055; July 2.
- Bumper, Door. T. P. Archer and J. B. Flynn. 1,740,939; Dec. 24.
- Bumper, Door. M. H. Toncray. 1,729,231; Sept. 24.
- Bumper, End and corner. E. A. Sohl. Re17,254; Apr. 2.
- Bumper fitting. A. W. Nordgren. 1,715,042; May 28.
- Bumper fitting. A. W. Nordgren. 1,716,345; June 4.
- Bumper for automobiles. M. B. Hammond. 1,706,061; Mar. 19.
- Bumper for automobiles. G. Nigro. 1,702,744; Feb. 19.
- Bumper for automobiles. F. Peacock. 1,726,191; Aug. 27.
- Bumper for automobiles, Pneumatic. A. H. Shoemaker. 1,709,493; Apr. 16.
- Bumper for motor vehicles. C. A. Dieterich. 1,741,506; Dec. 31.
- Bumper for motor vehicles. T. D. Finizio. 1,741,513; Dec. 31.
- Bumper for vehicles. M. Alland. 1,733,930; Oct. 29.
- Bumper for vehicles. I. D. Perry. 1,715,619; June 4.
- Bumper, Impact section for a vehicle. H. S. Jandus and J. R. Morgan. Des. 78,763; June 18.
- Bumper mechanism for motor vehicles. P. Sorce. 1,738,458; Dec. 3.
- Bumper, Pneumatic. A. H. Shoemaker. 1,709,494; Apr. 16.
- Bumper post. S. W. Hayes. 1,705,479; Mar. 19.
- Bumper, spare-tire carrier, and trunk rack, Combination. E. Mach. 1,701,210; Feb. 5.
- Bumper structure. D. L. Benton. 1,711,080; Apr. 30.
- Bumper support. A. W. Nordgren. 1,699,492; Jan. 15.
- Bumper-supporting mechanism. J. A. Nomicos. 1,697,204; Jan. 1.
- Bumper, Tubular-bar. R. B. Fageol. 1,697,498; Jan. 1.
- Bumper, Vehicle. F. H. Goodrich. 1,699,428; Jan. 15.
- Bumper, Vehicle. H. S. Jandus. Des. 79,658; Oct. 22.
- Bumper, Vehicle. H. S. Jandus. 1,708,623; Apr. 9.
- Bumper, Vehicle. H. S. Jandus. 1,720,599; July 9.
- Bumper, Vehicle. H. S. Jandus and R. A. Flum. Des. 79,661; Oct. 22.
- Bumper, Vehicle. H. S. Jandus and E. R. Keelor. Des. 79,662; Oct. 22.
- Bumper, Vehicle. H. S. Jandus and C. E. Rasmussen. Des. 79,818-19; Nov. 5.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 78,520; May 14.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 78,762; June 18.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 79,659-60; Oct. 22.
- Bumper, Vehicle. H. S. Jandus and N. Van Husen. Des. 79,719; Oct. 29.
- Bumper, Vehicle. S. P. Millar. 1,729,274; Sept. 24.
- Bumper, Vehicle safety. N. Manzo. 1,722,004; July 23.
- Bunch builder. E. J. Noel. 1,731,501; Oct. 15.
- Bunch-builder attachment. H. H. Holcombe. 1,733,346; Oct. 29.
- Bundle strap, Carry. R. M. Lackey. 1,722,052; July 23.
- Bundling machine. H. L. Evans and G. I. Nohl. 1,721,811; July 23.
- Bundling machine. C. T. Schwab. 1,719,732; July 2.



- Bung. W. M. Bell. 1,737,182; Nov. 26.  
 Bung and faucet. F. J. Runser. 1,709,325; Apr. 16.  
 Bung for iron transport casks. R. Mauser. 1,737,605; Dec. 3.  
 Bung sput and attaching same to container walls. F. G. Wikstrom. 1,722,256; July 23.  
 Bunk for logging cars. H. D. Bruce. 1,703,569; Feb. 26.  
 Bunker plant, Material. J. C. Buckbee. 1,724,253; Aug. 13.  
 Bunsen burner. E. Bandoly and H. P. Sachse. 1,723,002; Aug. 6.  
 Buoy for submarines, Air-supply. A. R. Slater. 1,729,666; Oct. 1.  
 Buoy, Signal. E. Wilckens. 1,709,890; Apr. 23.  
 Buoy, Signal. E. Wilckens. 1,711,865; May 7.  
 Buoy, Wreck-indicating. H. L. Saunders. 1,732,170; Oct. 15.  
 Buoyancy. Device for increasing. F. G. Sargent. 1,738,210; Dec. 3.  
 Buoying and driving mechanism for flying machines. G. Hedén. 1,739,967; Dec. 17.  
 Bureau. J. Sokol. Des. 80,069; Dec. 3.  
 Burglar alarm. W. L. Baker. 1,731,605; Oct. 15.  
 Burglar alarm. C. F. Klemp. 1,701,681; Feb. 12.  
 Burglar alarm. F. L. Kohler. 1,712,771; May 14.  
 Burglar alarm, Doorknob. M. Hildahl. 1,703,138; Apr. 9.  
 Burglar alarm, Multiplex. H. J. Murray. 1,720,230; July 9.  
 Burglar-alarm switch. G. E. Samsel. 1,719,085; July 2.  
 Burglar-alarm trap. S. B. Hess. 1,699,663; Jan. 22.  
 Burglar lock, Automatic safe. A. J. Macy. 1,736,205; Nov. 19.  
 Burglar trap. V. E. Davidson. 1,722,457; July 30.  
 Burner: See—  
   Air-mixing burner. Glass-furnace burner.  
   Atomizing burner. Hydrocarbon burner.  
   Bunsen burner. Ignition burner.  
   Coal-oil burner. Liquid-fuel burner.  
   Combination burner. Oil burner.  
   Fuel burner. Rotary burner.  
   Gas and oil burner. Sulphur burner.  
   Gas burner. Tubular burner.  
 Burner. L. T. Argo and H. L. Vines. 1,711,982; May 7.  
 Burner. F. Binsfeld. 1,735,669; Nov. 12.  
 Burner. E. Boekenkamp. 1,714,344; May 21.  
 Burner. J. Brock. 1,712,326; May 7.  
 Burner. H. P. Collins. 1,711,671; May 7.  
 Burner. J. H. Conner. 1,724,258; Aug. 13.  
 Burner. J. A. Hunt. 1,733,735; Oct. 29.  
 Burner. S. A. Jacques. 1,708,506; Apr. 9.  
 Burner. G. S. Morley. 1,703,684; Feb. 26.  
 Burner. C. H. Morrow. 1,702,054; Feb. 12.  
 Burner. T. E. Murray and J. H. Lawrence. 1,720,089; July 9.  
 Burner. C. J. Sherman. 1,734,448; Nov. 5.  
 Burner. E. G. Walbridge. 1,730,796; Oct. 8.  
 Burner. F. H. Willcox. 1,711,256; Apr. 30.  
 Burner. F. H. Willcox. 1,740,636; Dec. 24.  
 Burner. J. E. Withrow and L. W. Close. 1,732,708; Oct. 22.  
 Burner and control therefor. Oil. G. D. Sundstrand. 1,736,420; Nov. 19.  
 Burner and grate, Combined gas. H. Moecker, jr., F. and O. Hammermeister. 1,734,869; Nov. 5.  
 Burner and nozzle therefor. W. McClellan. 1,708,483; Apr. 9.  
 Burner and scraper, Combined. R. H. Johnson. 1,726,027; Aug. 27.  
 Burner apparatus. A. Boddeker. 1,701,968; Feb. 12.  
 Burner apparatus. H. T. Gerdes and A. F. Schumann. 1,740,296; Dec. 17.  
 Burner apparatus, Portable elongated. W. C. Elze. 1,709,567; Apr. 16.  
 Burner carburetor apparatus. J. Good. 1,704,565; Mar. 5.  
 Burner control, Fluid-fuel. P. F. Shivers. 1,707,194-5; Mar. 26.  
 Burner control, Fluid-fuel. P. F. Shivers. 1,730,828-30; Oct. 8.  
 Burner for cutting and welding. A. Messer. 1,731,020; Oct. 8.  
 Burner for furnaces. F. K. Hetsch. 1,702,298; Feb. 19.  
 Burner for gas heaters. H. C. Daniels. 1,710,147; Apr. 23.  
 Burner for gaseous and liquid fuels. A. J. Sessions. 1,720,761; July 16.  
 Burner for heating furnaces. J. A. McLane. 1,704,508; Mar. 5.  
 Burner for liquid fuel. J. V. Svenson. 1,730,097; Oct. 1.  
 Burner for liquid fuels. A. Doman. 1,708,013; Apr. 9.  
 Burner for oil-burning furnaces. A. P. Holden and P. Morgan. 1,719,608; July 2.  
 Burner for producing heat from liquid fuel. M. A. Powers. 1,739,089; Dec. 10.  
 Burner for roasters. A. P. Grohens. 1,716,920; June 11.  
 Burner for starting coal fires, Gas. M. Jupin. 1,722,225; July 23.  
 Burner installation, Gas. G. Keith. 1,701,500; Feb. 12.  
 Burner installation, Kindling. F. A. Gerlich and W. M. Berry. 1,728,165; Sept. 10.  
 Burner mechanism, Liquid-fuel. F. A. Teeple, jr. 1,729,526; Sept. 24.  
 Burner mounting. H. G. Klemm. 1,733,499; Oct. 29.  
 Burner mounting and air control, Combination. C. J. Sherwood. 1,722,253; July 23.  
 Burner-mounting means. G. A. Hoffman. 1,740,512; Dec. 24.  
 Burner protector. A. S. Lang. 1,720,909; July 16.  
 Burner structure. F. Rueppel. 1,735,182; Nov. 12.  
 Burner support and air preheater. L. Wallstrom. 1,701,249; Feb. 5.  
 Burner unit for gas heating apparatus. H. W. O'Dowd. 1,699,624; Jan. 22.  
 Burner unit for gas heating apparatus. H. W. O'Dowd. 1,735,618; Nov. 12.  
 Burners, Control means for hydrocarbon. J. L. Breese, jr. 1,729,060; Sept. 24.  
 Burners, Controlling apparatus for oil. E. I. Veitch and G. N. Blanchard. 1,728,314; Sept. 17.  
 Burners, Cooling well for. G. W. McKee. 1,729,447; Sept. 24.  
 Burners, Positive-feed pressure eliminator for sawdust. R. Jaeger. 1,732,442; Oct. 22.  
 Burning apparatus, Liquid-fuel. A. B. Frenier. 1,702,936; Feb. 19.  
 Burning apparatus, Oil. J. W. Logan. 1,698,760; Jan. 15.  
 Burning appliance, Gas. C. C. Young. 1,705,168; Mar. 12.  
 Burning collar. J. Taylor. 1,708,808; Apr. 9.  
 Burning explosive gaseous mixtures, Apparatus for. S. P. Vaughn. 1,706,087; Mar. 19.  
 Burning finely-divided fuel. E. Lundgren. 1,736,929; Nov. 26.  
 Burning finely-divided fuel, Apparatus for. J. Molz. 1,698,555; Jan. 8.  
 Burning fluid fuel, Apparatus for. D. Dana. 1,714,903; May 28.  
 Burning fuel. T. M. Chance. 1,716,815; June 11.  
 Burning Fuel, Apparatus for. J. E. Bell. 1,708,862; Apr. 9.  
 Burning fuel in furnaces. J. E. Muhlfeld and V. Z. Caracristi. 1,697,689; Jan. 1.  
 Burning fuel in regenerative furnaces. M. C. Steese. 1,736,675; Nov. 19.  
 Burning fuel, Method and apparatus for. E. P. Wetmore. 1,715,584; June 4.  
 Burning fuel, Method and apparatus for. E. P. Wetmore. 1,739,051; Dec. 10.  
 Burning fuel oil under pressure, Safety system for. R. M. G. Phillips. 1,706,704; Mar. 26.  
 Burning gaseous mixtures. S. P. Vaughn. 1,704,875; Mar. 12.  
 Burning lime, Process and apparatus for. C. J. Wright. 1,716,572; June 11.  
 Burning liquid fuel. A. J. Loepsinger. 1,700,269; Jan. 29.  
 Burning liquid fuel. A. J. Loepsinger. 1,700,592; Jan. 29.  
 Burning liquid fuel, Apparatus for. W. J. Turner. 1,718,614; June 25.  
 Burning liquid fuel in furnaces for heating buildings. A. B. Frenier. 1,738,881; Dec. 10.  
 Burning liquid fuel, Method of and apparatus for. H. H. Norton and E. E. Hobbs. 1,706,316; Mar. 19.  
 Burning pulverized coal. J. Van Brunt. 1,707,335; Apr. 2.  
 Burning pulverized fuel. J. E. Bell. 1,729,024; Sept. 24.  
 Burning pulverized fuel, Method of and apparatus for. H. Kreisinger and J. Anderson. 1,712,999; May 14.  
 Burning pulverized fuel, Method of and apparatus for. R. C. Newhouse. 1,706,360; Mar. 19.  
 Burning rack. H. T. Bebb. 1,738,030; Dec. 3.  
 Burning rack, Battery-plate-assembly. H. E. Von Grimstein. 1,715,020; May 28.  
 Burning solid fuel. A. Cotton. 1,713,817; May 21.  
 Burning sulphur and burner therefor. E. J. Mullen. 1,720,742; July 16.  
 Burnishing bevel or hypoid gears, Device for. C. H. Logue. 1,716,924; June 11.  
 Burnishing machine, Hot-roll bottom. R. B. Woodcock. 1,730,401; Oct. 8.  
 Burr extractor and cotton cleaner. F. Lane. 1,709,531; Apr. 16.  
 Burr for dressing pulp grindstones. F. W. Aikin. 1,737,551; Dec. 3.  
 Bus, Automotive. R. W. Bailey and L. R. Koenig. 1,697,629; Jan. 1.  
 Bus-bar structure. A. G. Steinmayer. 1,734,537; Nov. 5.  
 Bus body. S. S. Albright. 1,737,547; Dec. 3.  
 Bus construction. T. G. Le Clair. 1,726,077; Aug. 27.  
 Bus seat. F. P. D'Arcy. 1,711,085; Apr. 30.  
 Bush connection for sound conduits, Nonsonorous detachable. E. A. Graham. 1,699,586; Jan. 22.  
 Bush hook. P. Allen. 1,701,493; Feb. 12.  
 Bushing. A. L. Moler. 1,701,819; Feb. 12.  
 Bushing. R. A. Smith. 1,700,100; Jan. 22.  
 Bushing, Adjustable floating. W. H. Carel, jr. 1,741,183; Dec. 31.  
 Bushing and bushing-retaining means for tongs and the like. E. C. Wilson. 1,732,625; Oct. 22.  
 Bushing and washer, Outlet. S. A. Meyers. 1,726,038; Aug. 27.  
 Bushing, Drill-drive-stem. H. L. Graham. 1,738,101; Dec. 3.  
 Bushing, Eccentric. E. L. Grauel. 1,704,939; Mar. 12.  
 Bushing for automobile door-curtain rods. G. E. Bishop. 1,708,689; Apr. 9.  
 Bushing, Insulating. A. Haller. 1,730,136; Oct. 1.  
 Bushing, Jig. W. R. Fisher. 1,706,847; Mar. 26.  
 Bushing press. W. J. Parkinson. 1,704,442; Mar. 5.  
 Bushing puller. A. R. Steirly. 1,705,789; Mar. 19.  
 Bushing remover and replacer. W. S. Goeller. 1,736,529; Nov. 19.



- Bushing, Rubber eccentric. F. Pampinella. 1,720,432; July 9.
- Bushing, Separable end-thrust. J. W. Warner. 1,701,521; Feb. 12.
- Bushing, Steering-column. F. C. Morris. Re17,372; July 9.
- Bushings and tool therefor, Securing. G. R. Maupin. 1,728,499; Sept. 17.
- Bushings, Applying and removing. R. A. Smith. 1,700,101; Jan. 22.
- Bushings, Conductor terminal for. A. O. Austin. 1,730,715; Oct. 8.
- Bushings, Producing antifriction. C. Q. Payne. 1,731,790; Oct. 15.
- Butcher's block. A. C. Gunea. 1,734,853; Nov. 5.
- Butt for sand ramming and the like. E. W. Stevens.. 1,730,393; Oct. 8.
- Butter cutter. J. Case. 1,714,494-5; May 28.
- Butter cutter. W. Lockett. 1,705,257; Mar. 12.
- Butter cutter. A. Slaten. 1,703,553; Feb. 26.
- Butter-cutter frame. C. F. Miller. 1,704,509; Mar. 5.
- Butter mold. J. R. Elliott. 1,708,304; Apr. 9.
- Butter mold. E. C. Hawkins. 1,730,038; Oct. 1.
- Butter mold. H. E. Humbarger. 1,711,532; May 7.
- Butterfly, Artificial. A. P. Dickson. 1,727,700; Sept. 10.
- Button. I. D. Ford. 1,702,768; Feb. 19.
- Button. G. Frank. 1,718,858; June 25.
- Button. P. H. Harris. 1,708,415; Apr. 9.
- Button. C. H. Kenlan. 1,720,079; July 9.
- Button. I. Kramer. 1,700,169; Jan. 29.
- Button. F. G. Purinton. 1,717,406; June 18.
- Button. C. Sauer. 1,719,904; July 9.
- Button-attaching device. W. J. Wren and N. M. Willet. 1,731,556; Oct. 15.
- Button-attaching means. E. Jaffe. 1,703,886; Mar. 5.
- Button-blank-cutting machine. I. H. Gleich. 1,713,695; May 21.
- Button breaker roll. J. McMurray. 1,730,520; Oct. 8.
- Button clamp. R. L. Lyons. 1,711,607; May 7.
- Button, Collar. E. J. Bergström. 1,718,452; June 25.
- Button, Collar. T. F. King. 1,741,027; Dec. 24.
- Button, Collar. J. Sargent. 1,724,223; Aug. 13.
- Button, Display. P. O. Hoag. 1,729,778; Oct. 1.
- Button, Flexible. F. E. White. 1,718,843-4; June 25.
- Button-forming machine. W. T. Abel. 1,711,218; Apr. 30.
- Button, Hinged cuff. H. W. Williams. 1,718,397; June 25.
- Button-making machine. A. Hurewitz. 1,701,501; Feb. 12.
- Button, Push. C. Bateholts. 1,705,801; Mar. 19.
- Button, Ring. A. Smolin. 1,703,555; Feb. 26.
- Button-securing device. F. Karcsak. 1,706,576; Mar. 26.
- Button, Self-adjusting collar. R. A. Neilson and A. H. Watson. 1,700,446; Jan. 29.
- Button, Shirt. L. O. Steinke. 1,722,597; July 30.
- Buttonhole-making guide. W. K. Johnson. 1,727,776; Sept. 10.
- Buttonhole, Stitched. E. B. Allen. 1,708,290; Apr. 9.
- Buttonholes and making them. J. A. Busha. 1,722,658; July 30.
- Buttoning machine. L. J. Bazzoni. 1,702,398; Feb. 19.
- Butyl acetic fermentation process. W. J. Edmonds. 1,740,162; Dec. 17.
- Butyric aldehyde. Production of. M. Mugdan and J. Wimmer. 1,730,587; Oct. 8.
- Cab for trucks. P. Carlson. 1,720,317; July 9.
- Cab or deck seat. A. B. Tevis. 1,697,093; Jan. 1.
- Cab signal. C. E. Blankenship. 1,700,019; Jan. 22.
- Cab ventilator, Locomotive. E. J. Wilhelm. 1,708,553; Apr. 9.
- Cabinet. P. Bergmann. 1,698,578; Jan. 8.
- Cabinet. M. G. Blackstone. 1,733,935; Oct. 29.
- Cabinet. J. Broezen. 1,712,024; May 7.
- Cabinet. R. Evans. 1,735,741; Nov. 12.
- Cabinet. L. L. Ginsburg. Des. 79,712-13; Oct. 29.
- Cabinet. L. L. Ginsburg. Des. 79,801; Nov. 5.
- Cabinet. N. E. Goodrich. Des. 78,621; May 28.
- Cabinet. J. B. Hawley. 1,727,107; Sept. 3.
- Cabinet. J. A. Hoegger. 1,715,032; May 28.
- Cabinet. A. A. Kent. 1,710,482; Apr. 23.
- Cabinet. R. E. Lantz. 1,720,484; July 9.
- Cabinet. J. Midlo. 1,725,407; Aug. 20.
- Cabinet. L. Stickley. 1,734,651; Nov. 5.
- Cabinet, Advertising. U. Bartoletti. 1,718,625; June 25.
- Cabinet, Advertising. C. H. Eddy. Des. 78,274; Apr. 16.
- Cabinet, Advertising. G. R. Sigman. 1,731,083; Oct. 8.
- Cabinet, Amusement target. F. Kotrba. Des. 79,469; Sept. 24.
- Cabinet, Amusement target. J. F. Meyer. Des. 79,600; Oct. 15.
- Cabinet and container for said cabinet, Vending display. H. C. Hodgkins. 1,737,156; Nov. 26.
- Cabinet and cooler, Self-serving food. J. A. Birdsong and J. L. Showers. 1,717,181; June 11.
- Cabinet and loading same, Towel. F. G. Steiner. 1,721,925; July 23.
- Cabinet and refrigerator, Combination kitchen. E. F. Burgermeister. 1,718,407; June 25.
- Cabinet and stand, Combined utility. F. D. Reynolds. 1,735,879; Nov. 19.
- Cabinet and table, Combination kitchen. F. J. Stobba. 1,730,391; Oct. 8.
- Cabinet, Applicator. C. D. McDonald. 1,701,955; Feb. 12.
- Cabinet, Bag-dispensing. G. W. Rittenhouse and H. P. Smith. 1,719,451; July 2.
- Cabinet, Bath. R. J. Kideney. 1,730,373; Oct. 8.
- Cabinet, Battery. R. A. Lorig. Des. 77,422; Jan. 8.
- Cabinet, Bottle-dispensing. C. A. Frick. Des. 79,588; Oct. 15.
- Cabinet camp table. E. L. Hahn. 1,716,584; June 11.
- Cabinet, Card-tray. F. W. Tobey. 1,728,946; Sept. 24.
- Cabinet clothing roll. W. B. McCollum. 1,728,212; Sept. 17.
- Cabinet, Coin. J. F. Ross, jr. and T. C. Billups. 1,713,715; May 21.
- Cabinet, Composite. L. Illmer. 1,714,909; May 28.
- Cabinet construction. F. A. and W. Anetsberger. 1,726,794; Sept. 3.
- Cabinet construction, File. W. I. Cubberley. 1,739,545; Dec. 17.
- Cabinet, Cooling and dispensing. T. J. Bixler. 1,711,581; May 7.
- Cabinet, Dental burr. L. M. Ciboch. 1,731,705; Oct. 15.
- Cabinet dish tray, Adjustable. C. E. Johnson. 1,714,266; May 21.
- Cabinet, Dispensing. G. C. Aldrich. 1,719,826; July 9.
- Cabinet, Dispensing. F. H. Bachelder. 1,699,040; Jan. 15.
- Cabinet, Dispensing. E. B. Jelks and J. W. Harner. 1,706,298; Mar. 19.
- Cabinet, Dispensing. H. Parker. 1,719,338; July 2.
- Cabinet, Dispensing. R. F. Sherfy. 1,716,388; June 11.
- Cabinet, Display. H. L. Baker. 1,740,326-7; Dec. 17.
- Cabinet, Display. M. Cohn. Des. 78,089; Mar. 26.
- Cabinet, Display. C. L. Hill. Des. 77,959; Mar. 12.
- Cabinet, Display. W. F. Kemball and H. M. Rugg. 1,713,661; May 21.
- Cabinet, Display. C. R. Koss. 1,714,960; May 28.
- Cabinet, Display. C. W. Kress. 1,713,664; May 21.
- Cabinet, Display. C. W. Kress. 1,715,459; June 4.
- Cabinet, Display. J. A. Liley. 1,706,240; Mar. 19.
- Cabinet, Display. A. M. Olinger. 1,702,361; Feb. 19.
- Cabinet, Display. R. Orthwine. 1,721,132; July 16.
- Cabinet, Display. R. Orthwine. 1,739,730; Dec. 17.
- Cabinet, Display. I. P. Pearlman. Des. 79,980; Nov. 26.
- Cabinet, Electric bath. J. Schmidt. 1,716,603; June 11.
- Cabinet, Electrical reproducer. A. F. Van Dyck and E. J. Quinby. Des. 80,198; Dec. 24.
- Cabinet, Electrical reproducer. A. F. Van Dyck, E. J. Quinby, and M. Pasternak. Des. 80,199; Dec. 24.
- Cabinet, Electrical service and meter. G. T. Gibson. 1,740,730; Dec. 24.
- Cabinet, Electromedical. J. B. Wantz. Des. 77,801; Feb. 19.
- Cabinet, Extended bath. J. F. Kruse. 1,708,624; Apr. 9.
- Cabinet, Filing. E. J. Card and V. A. Gronberg. 1,735,375; Nov. 12.
- Cabinet for a register. A. S. Wheelbarger. Des. 77,572-4; Jan. 22.
- Cabinet for a sound-reproducing instrument or the like. N. P. Bloom. Des. 79,694-6; Oct. 29.
- Cabinet for butchers, Tool. E. Seagles. 1,742,102; Dec. 31.
- Cabinet for flush tank. B. O. Tilden. Des. 80,196; Dec. 24.
- Cabinet for flush tanks. B. O. Tilden. 1,710,036; Apr. 23.
- Cabinet for loud-speakers. I. Harris. Des. 78,204; Apr. 9.
- Cabinet for radio receiving apparatus. A. A. Kent. Des. 78,030; Mar. 19.
- Cabinet for radios and phonographs. J. Acosta. 1,710,465; Apr. 23.
- Cabinet for sound producing and reproducing instruments. W. B. Stevenson. Des. 80,248; Dec. 31.
- Cabinet for toilet articles. L. Lea and J. A. Hawthorne, jr. 1,707,021; Mar. 26.
- Cabinet for tongue depressors, Dispensing. A. J. Haberer. 1,741,295; Dec. 31.
- Cabinet, Fuse. H. J. L. Frank. 1,733,370; Oct. 29.
- Cabinet, Gravity-feed bottle cooling and dispensing. R. E. Lee. 1,717,984; June 18.
- Cabinet, Grocery. H. D. Burns. 1,715,276; May 28.
- Cabinet, Hair-waving operator's. F. Salerno. 1,735,183; Nov. 12.
- Cabinet heater. R. F. and R. J. Verdin. 1,713,573; May 21.
- Cabinet, Ice-cream. R. W. Brice. 1,717,310; June 11.
- Cabinet, Ice-cream-storage. F. M. Graham. 1,697,313; Jan. 1.
- Cabinet, Ironing. S. E. Folkins. 1,698,677; Jan. 8.
- Cabinet, Ironing-board. W. D. Johnston. 1,706,235; Mar. 19.
- Cabinet, Ironing-board. J. W. Waddell. 1,707,588; Apr. 2.
- Cabinet, Kitchen. O. Landaw. 1,735,119; Nov. 12.
- Cabinet, Knockdown variable-unit. D. W. Butz and M. M. Uitts. 1,729,865; Oct. 1.
- Cabinet, Loud-speaker. M. Nystrom. Des. 78,891; July 2.
- Cabinet, Medicine. L. J. Pence. 1,719,386; July 2.
- Cabinet, Medicine. W. H. Hendrickson and C. A. Brantingham. 1,721,953; July 23.
- Cabinet, Merchandise. C. L. Anderson. 1,699,868; Jan. 22.
- Cabinet, Napkin-dispensing. A. G. Krueger. 1,729,349; Sept. 24.
- Cabinet, Notion. P. L. McCauley. 1,704,365; Mar. 5.
- Cabinet or case for household uses. A. F. Hoff. 1,698,593; Jan. 8.
- Cabinet or container for stationery or other merchandise, Display. H. H. Harshman. 1,726,664; Sept. 3.
- Cabinet or similar article. I. Ročič. Des. 79,609; Oct. 15.
- Cabinet or similar article, Combined radio or phonograph. N. S. Dunbar. Des. 79,552; Oct. 8.
- Cabinet or similar article, Kitchen. E. Burke. Des. 78,876; July 2.



- Cabinet or similar article, Phonograph. B. Parmly, jr. Des. 77,431; Jan. 8.
- Cabinet or the like, Type. W. Stephens. 1,702,138; Feb. 12.
- Cabinet, Paper. R. W. Griffith and S. N. Hope. 1,709,214; Apr. 16.
- Cabinet, Permanent-waving. J. L. Izan. 1,717,217; June 11.
- Cabinet, Photo-engraver's. W. J. Dobinson. 1,741,684; Dec. 31.
- Cabinet, Photographic. V. R. Menon. 1,725,010; Aug. 20.
- Cabinet, Picture-display. A. F. Victor. Des. 78,991; July 16.
- Cabinet, Portable heating. T. A. Sala. 1,726,000; Aug. 27.
- Cabinet, Provision. R. L. Bourke and A. C. Anderson. 1,741,008; Dec. 24.
- Cabinet, Range-base. F. F. Forshee. 1,728,792; Sept. 17.
- Cabinet, Razor. W. C. Magruder. 1,741,945; Dec. 31.
- Cabinet, Recipe. G. H. Reimer. 1,729,126; Sept. 24.
- Cabinet, Reducing and light-treatment. M. N. Zublin. 1,718,770; June 25.
- Cabinet, Reflecting advertisement display. H. C. Gebauer. Des. 78,972; July 16.
- Cabinet, Refrigerated food. J. R., Replogle. 1,716,150; June 4.
- Cabinet, Refrigerating. L. G. Copeman. 1,710,405; Apr. 23.
- Cabinet, Refrigerating. D. J. Greiling. 1,698,132; Jan. 8.
- Cabinet, Refrigerator. G. Muffy. 1,703,318; Feb. 26.
- Cabinet, Register and message. D. L. Taylor. 1,726,250; Aug. 27.
- Cabinet, Roll-towel. E. T. Hails. 1,719,429; July 2.
- Cabinet, Selective-card. W. Buckeridge. 1,702,994; Feb. 19.
- Cabinet, Service. F. J. Matchette. 1,703,944; Mar. 5.
- Cabinet, Sewing. E. M. Cushman. 1,700,924; Feb. 5.
- Cabinet, Sewing. J. H. Grimes. 1,714,362; May 21.
- Cabinet, Smoker's. C. H. Gesbeck. 1,716,883; June 11.
- Cabinet, Smoker's. W. Horvath. 1,728,862; Sept. 17.
- Cabinet, Stock-quotation projecting machine. J. W. Decker. Des. 79,637; Oct. 22.
- Cabinet structure, Display-. R. A. Sargent. 1,729,968; Oct. 1.
- Cabinet structure, Wall-. G. T. Gourley. 1,736,399; Nov. 19.
- Cabinet, Sun-bath. A. Swanfeldt. 1,734,505; Nov. 5.
- Cabinet, Telephone. E. Lewers and P. A. Rickles. 1,698,409; Jan. 8.
- Cabinet, Telephone. G. H. Supplitt. Des. 77,865; Feb. 26.
- Cabinet, Telephone. E. M. Trammell. 1,702,178; Feb. 12.
- Cabinet, Tissue. C. J. Nardon. 1,735,931; Nov. 19.
- Cabinet, Toilet. R. W. Wallace. 1,739,622; Dec. 17.
- Cabinet, Toilet-paper. F. P. Allen and W. H. Brett. 1,712,479; May 14.
- Cabinet, Toothbrush. R. M. G. Phillips. 1,727,176; Sept. 3.
- Cabinet, Towel. J. H. Addler. 1,705,600; Mar. 19.
- Cabinet, Towel. G. E. Collins. 1,724,128; Aug. 13.
- Cabinet, Towel. J. Darman. 1,703,265; Feb. 26.
- Cabinet, Towel. A. L. Jones and H. C. Ruchmeyer. 1,720,218; July 9.
- Cabinet, Towel. G. Olson. 1,721,970; July 23.
- Cabinet, Towel. F. G. Steiner. 1,724,229; Aug. 13.
- Cabinet, Towel. F. M. Steiner. 1,721,926-7; July 23.
- Cabinet, Towel. F. M. Steiner. 1,735,515; Nov. 12.
- Cabinet, Towel. G. A. Steiner. 1,721,928; July 23.
- Cabinet, Towel. G. A. Steiner. 1,735,514; Nov. 12.
- Cabinet, Towel. G. A. Steiner. 1,735,516; Nov. 12.
- Cabinet, Towel. G. A. Steiner and J. Evans. 1,736,140; Nov. 19.
- Cabinet, Towel. G. A. Steiner and G. Olson. Re17,352; July 2.
- Cabinet, Towel holding and dispensing. C. H. Ashley and L. H. Phileo. 1,706,949; Mar. 26.
- Cabinet, Twine. F. E. Hoffman. 1,714,469; May 21.
- Cabinet, Upright beverage-cooling. H. W. Hibbard. 1,731,777; Oct. 15.
- Cabinet, Vertical filing. D. E. Hunter. 1,734,168; Nov. 5.
- Cabinet, Visible-card-file. L. Lombardini. 1,736,655; Nov. 19.
- Cabinet, Wall. J. A. Hoegger. Re17,510; Dec. 3.
- Cabinet, Wall. J. A. Hoegger. 1,707,013; Mar. 26.
- Cabinetmaker's clamp. C. I. Young. 1,709,385; Apr. 16.
- Cabinets, Attachment for towel. G. A. Steiner. 1,697,579; Jan. 1.
- Cabinets, Base for refrigerator. G. R. Meyercord and F. M. Curran. 1,724,882; Aug. 13.
- Cabinets, Feed-control mechanism for towel. F. G. Steiner. 1,724,228; Aug. 13.
- Cabinets, Foot for filing. B. L. Polkosnik. 1,726,121; Aug. 27.
- Cabinets, Knee control mechanism for electric-sewing-machine. D. H. Chason. 1,721,070; July 16.
- Cabinets, Method and apparatus for forming and maintaining sanitation in ice-cream. L. G. Copeman. 1,711,721; May 7.
- Cable adjusting device for steering quadrants. S. H. H. Parsons. 1,711,126; Apr. 30.
- Cable and manufacturing same, Electric. R. Apt. 1,702,332; Feb. 19.
- Cable and plug therefor, Connecting. L. R. Taylor. 1,701,646; Feb. 12.
- Cable, Armored electric. G. A. Johnson. 1,710,312; Apr. 23.
- Cable, Balancing telephone. H. T. Werren. 1,720,616; July 9.
- Cable clamp. J. Blackburn. 1,699,830; Jan. 22.
- Cable clamp. S. Hilland. 1,730,656; Oct. 8.
- Cable clamp. D. B. Rohrer. 1,710,243; Apr. 23.
- Cable clamp. E. B. Sneed. 1,732,033; Oct. 15.
- Cable clamp. C. S. Thomas. 1,736,807; Nov. 26.
- Cable clamp. J. J. Usher. 1,708,979; Apr. 16.
- Cable clamp, Battery-. O. Oldham. 1,735,782; Nov. 12.
- Cable clip. E. O. Keator. 1,722,000; July 23.
- Cable connector. L. H. Church. 1,732,927; Oct. 22.
- Cable connector. L. H. Church. 1,734,202; Nov. 5.
- Cable connector. A. E. Greene. 1,718,817; June 25.
- Cable connector. G. H. Koerner. 1,701,812; Feb. 12.
- Cable connector. G. C. Thomas, jr. 1,711,552; May 7.
- Cable connector. G. C. Thomas, jr. 1,732,956; Oct. 22.
- Cable connector. G. C. Thomas, jr. 1,736,020; Nov. 19.
- Cable connection, Battery. G. W. Hebbeler. 1,712,823; May 14.
- Cable-connection clamp, Battery. G. W. Hebbeler. 1,712,824; May 14.
- Cable connection for portable tools. L. F. Meunier. 1,722,816; July 30.
- Cable coconstruction. B. W. Gates. 1,728,119; Sept. 10.
- Cable construction, Submarine. A. M. Curtis. 1,738,234; Dec. 3.
- Cable, Continuously-loaded submarine. A. R. Kemp. 1,700,766; Feb. 5.
- Cable-conveying means. W. Short. 1,735,301; Nov. 12.
- Cable, Distant-communication. E. Fischer. 1,697,233; Jan. 1.
- Cable drums, Friction thrust for. S. B. Gorbitt. 1,701,614; Feb. 12.
- Cable, Electric. W. S. Clark. 1,708,785; Apr. 9.
- Cable, Electric. J. Delon. 1,740,076; Dec. 17.
- Cable, Electric. J. J. Morrison. 1,730,740; Oct. 8.
- Cable, Electrical. J. H. Biggar. 1,727,955; Sept. 10.
- Cable, Electrical. L. S. Ford. 1,726,551; Sept. 3.
- Cable, Electrical. L. S. Ford. 1,727,971-2; Sept. 10.
- Cable, Electrical. O. A. Frederickson. 1,718,920; June 25.
- Cable end bell, Disconnecting type of. R. T. Calloway. 1,717,368; June 18.
- Cable-engaging device for replacing bull hooks. C. Hartman. 1,708,881; Apr. 9.
- Cable equalizer for elevators. R. P. Higbee. 1,700,587; Jan. 29.
- Cable fastening. O. K. Landis. 1,732,053; Oct. 15.
- Cable filler. M. C. Dodge. 1,700,434; Jan. 29.
- Cable fitting. C. L. Johnson. 1,732,581; Oct. 22.
- Cable fitting. J. Scott. 1,714,050; May 21.
- Cable for transmitting electrical energy. L. Emanuell. 1,698,050; Jan. 8.
- Cable grip. P. J. Martin. 1,730,155; Oct. 1.
- Cable grip. P. J. Martin. 1,732,410; Oct. 22.
- Cable grip. L. E. Moffitt. 1,706,805; Mar. 26.
- Cable guide. C. Brassington. 1,707,385; Apr. 2.
- Cable, High-frequency submarine. J. J. Gilbert. 1,705,913; Mar. 19.
- Cable, High-tension. A. O. Hoeftmann. 1,701,808; Feb. 12.
- Cable, High-tension. H. Meurer and S. Silbermann. 1,722,153; July 23.
- Cable, High-tension. S. Silbermann. 1,701,278; Feb. 5.
- Cable, High-tension. W. Vogel. 1,722,163; July 23.
- Cable, Insulated. R. R. Williams. 1,705,949; Mar. 19.
- Cable joint, Insulated. E. D. Eby. 1,723,846; Aug. 6.
- Cable, Lead or like metal sheathed electric. J. L. Packer. 1,732,984; Oct. 22.
- Cable, Multiple-conductor aerial. S. B. Hood. 1,721,218; July 16.
- Cable-operating machine. C. Gross. 1,708,880; Apr. 9.
- Cable or sling. J. M. Garriss. 1,703,269; Feb. 26.
- Cable, Portable electric. W. I. Middleton and C. R. Boggs. 1,698,704; Jan. 8.
- Cable press, Lead. K. Schrott. 1,737,773; Dec. 3.
- Cable reels, Device for handling. A. M. Seeger. 1,707,028; Mar. 26.
- Cable, Reinforced electric. H. Wodtke. 1,707,700; Apr. 2.
- Cable releases, Assembling. E. E. Underwood. 1,728,752; Aug. 6.
- Cable-sheath bonding. H. Halperin and K. W. Miller. 1,721,018; July 16.
- Cable sheave. M. Hibbard. 1,714,221; May 21.
- Cable splitter. H. W. Klinger. 1,739,972; Dec. 17.
- Cable structure. D. M. Simons. 1,710,845; Apr. 30.
- Cable, Submarine signaling. J. J. Gilbert. 1,700,476; Jan. 29.
- Cable support. O. W. Brenizer. 1,698,531; Jan. 8.
- Cable, Telephone. H. Jordan. 1,733,063; Oct. 22.
- Cable terminal. H. O. Shults. 1,733,279; Oct. 29.
- Cable-testing arrangement. P. G. Edwards and H. W. Herington. 1,714,551; May 28.
- Cable, Three-conductor. W. C. Hayman. 1,740,343; Dec. 17.
- Cable, Twin and multicore electric. C. J. Beaver. 1,700,606; Jan. 29.
- Cableway. V. L. Feugh. 1,729,964; Oct. 1.
- Cableway-skidding machine. R. P. Ramsey. 1,698,170; Jan. 8.
- Cableway system, Overhead. J. H. Dickinson. 1,719,598; July 2.
- Cable with phantom formation, Pupin-loaded long-distance. K. Küptmüller. 1,719,478; July 2.
- Cable-wrapping machine. H. D. Robinson. 1,725,540; Aug. 20.



- Cable wrench. W. O. Parker. 1,715,425; June 4.  
 Cables and the like, Device for operating Bowden. J. S. Knight. 1,716,141; June 4.  
 Cables and the like, Laying and picking up submarine. F. E. Pernot. 1,703,777; Feb. 26.  
 Cables, Apparatus for and method of connecting. P. P. Pipes. 1,707,317; Apr. 2.  
 Cables, Armoring of single-conductor electric power. E. Schürer. 1,697,541; Jan. 1.  
 Cables, End sleeve and junction box for high-tension. S. Silbermann. 1,701,279; Feb. 5.  
 Cables, Joint for high-tension electric. L. Emanuelli. 1,698,051; Jan. 8.  
 Cables, Jointing, splicing, and impregnating electric. L. Emanuelli. 1,737,650; Dec. 3.  
 Cables, Manufacture of multicore electric. C. J. Beaver. 1,711,555; May 7.  
 Cables, Manufacturing long-distance telegraph and telephone. E. Fischer. 1,734,207; Nov. 5.  
 Cables, Splice head for electric. A. C. Rumble. 1,733,317; Oct. 29.  
 Caddy. A. S. Ethridge. 1,700,402; Jan. 29.  
 Cadmium, Recovering. R. Teats. 1,727,492; Sept. 10.  
 Cesium, Producing metallic. R. E. Miesse. 1,707,637; Apr. 2.  
 Cafeteria pot. G. P. Ittig. Des. 78,101; Mar. 26.  
 Cage, Bird. P. J. Adamowicz. 1,741,967; Dec. 31.  
 Cage, Bird. H. O. Lindemann. Des. 77,845; Feb. 26.  
 Cage, Bird. E. W. Little. Des. 80,036-7; Dec. 3.  
 Cage, Bird. F. F. Pfefferkorn. Des. 79,617; Oct. 15.  
 Cage, Bird. W. H. Targett. Des. 79,767; Oct. 29.  
 Cage body, Bird. H. G. Hoefler. Des. 79,081; July 30.  
 Cage for antifriction bearings. T. L. Robinson. 1,712,231; May 7.  
 Cage for ball bearings. A. H. Linde. 1,715,848; June 4.  
 Cage, Novelty bird. A. Tomiselli. Des. 78,132; Mar. 26.  
 Cage top, Bird-. N. W. Hendryx. Des. 79,331; Sept. 3.  
 Cage top, Bird-. H. G. Hoefler. Des. 79,332; Sept. 3.  
 Cage trap. W. J. Atwell and E. W. Kinzer. 1,722,321; July 30.  
 Cage, Valve. W. N. MaGee. 1,698,163; Jan. 8.  
 Calsson, Hydraulic. W. R. Taylor. 1,698,460; Jan. 8.  
 Cake. L. L. Frank. Des. 79,706; Oct. 29.  
 Cake and pie tin. C. W. Stuart. 1,728,087; Sept. 10.  
 Cake decorator. O. Genova. 1,717,151; June 11.  
 Cake machine, Vacuum rotary. W. Costello, jr. 1,724,827; Aug. 13.  
 Cake pan. N. R. Fulkerton. Re17,320; June 4.  
 Cake pan. J. G. Jackson. 1,719,842; July 9.  
 Cake pan. A. Katzinger. Re17,234; Mar. 12.  
 Calcined gypsum, Aging. S. G. McAnally. 1,713,879; May 21.  
 Calcium arsenate, Dry process of manufacturing. J. Altwegg and A. M. Dutel. 1,700,756; Feb. 5.  
 Calcium arsenate, Manufacturing commercial. W. C. Piver. 1,727,306; Sept. 3.  
 Calcium carbide and pig iron, Producing. H. Eldridge. 1,719,970; July 9.  
 Calcium hypochlorite, Manufacture of. A. George. 1,718,285; June 25.  
 Calcium hypochlorite, Manufacture of. A. George and R. B. MacMullin. 1,713,650; May 21.  
 Calcium hypochlorite, Manufacture of. A. George and M. C. Taylor. 1,718,284; June 25.  
 Calcium hypochlorite, Manufacture of. J. A. Guyer. 1,713,654; May 21.  
 Calcium hypochlorite, Manufacture of. J. A. Guyer and M. C. Taylor. 1,718,286; June 25.  
 Calcium hypochlorite, Manufacture of. R. B. MacMullin and A. George. 1,713,668-9; May 21.  
 Calcium hypochlorite, Manufacture of. R. B. MacMullin and A. George. 1,718,287; June 25.  
 Calcium-magnesium-chloride product and making same. W. R. Collings and J. J. Shafer. 1,738,492; Dec. 3.  
 Calcium nitrate, Manufacture of. K. Blumrich. 1,700,116; Jan. 29.  
 Calculating and measuring purposes, Apparatus for. P. Jellinek and F. Beer. 1,737,659; Dec. 3.  
 Calculating device. W. R. Mittendorf. 1,731,586; Oct. 15.  
 Calculating device, Multiplying numerical. H. B. Orchard. 1,732,983; Oct. 22.  
 Calculating machine. J. E. W. Greve and A. M. Klaar. 1,727,765; Sept. 10.  
 Calculating machine. A. A. Horton. 1,730,147; Oct. 1.  
 Calculating machine. W. S. Johnson. 1,700,057; Jan. 22.  
 Calculating machine. F. O. Mueller. 1,715,170; May 28.  
 Calculating machine. R. H. Strother. 1,734,538; Nov. 5.  
 Calculating machine. J. A. V. Turck. 1,714,964; May 28.  
 Calculating machine, cash register, and the like. W. Ball. 1,742,053; Dec. 31.  
 Calculating machine, Keyboard for. A. A. Horton. 1,732,231; Oct. 22.  
 Calculating machines, Carrying mechanism for. K. V. Rudin. 1,711,210; Apr. 30.  
 Calculating machines, Controlling means for. A. A. Horton. 1,738,144; Dec. 3.  
 Calculating machines, Multiplier mechanism for. G. C. Chase. Re17,466; Oct. 22.  
 Calculating machines, Overdraft and signal printing mechanism for. F. W. Bernau. 1,731,701; Oct. 15.  
 Calculating mechanism. F. L. Fuller. 1,700,355; Jan. 29.  
 Calculator. R. L. Elison. 1,729,714; Oct. 1.  
 Calendar. H. L. Fischer. 1,700,762; Feb. 5.  
 Calendar. O. Halverson. 1,697,912; Jan. 8.  
 Calendar. P. R. Johnson. 1,705,866; Mar. 19.  
 Calendar. E. H. Rehder. 1,716,600; June 11.  
 Calendar. H. F. Shedd. 1,710,434; Apr. 23.  
 Calendar and container, Combined. J. T. Smith. 1,697,578; Jan. 1.  
 Calendar and display sign. H. L. Fischer. 1,716,222; June 4.  
 Calendar case. J. Gordon. Des. 77,597; Jan. 29.  
 Calendar, Continuous. S. R. Coleman. 1,740,497; Dec. 24.  
 Calendar, Desk. B. H. Harris. 1,712,302; May 7.  
 Calendar, Desk. G. S. Howland. 1,705,116; Mar. 12.  
 Calendar device. H. A. Frederick. 1,721,337; July 16.  
 Calendar, fountain-pen holder, and receptacle, Combined. C. Horix. Des. 77,599; Jan. 29.  
 Calendar, Pad. K. Clark. Des. 80,019; Dec. 3.  
 Calendar panel. I. Leibowitz. Des. 77,697; Feb. 12.  
 Calendar, Perpetual. W. J. Carsin. 1,711,041; Apr. 30.  
 Calendar, Perpetual. H. Meyer. 1,727,440; Sept. 10.  
 Calendar, Perpetual. W. J. Sidis. 1,718,314; June 25.  
 Calendar, Perpetual. M. A. Smythe. 1,698,923; Jan. 15.  
 Calendar, Perpetual. C. A. Ward. 1,720,774; July 16.  
 Calendar, Savings. A. J. Spillane. 1,704,773; Mar. 12.  
 Calendar stand, Desk-. H. H. Coleman and A. Ziska, jr. 1,699,878; Jan. 22.  
 Calendar-doctor-operating means. E. E. Berry and F. W. Loding. 1,704,853; Mar. 12.  
 Calendaring method and apparatus. J. F. Hogan. 1,730,657; Oct. 8.  
 Calendaring mineral-coated paper and product. D. B. Bradner. 1,719,166; July 2.  
 Calendaring or ironing of fabrics. C. W. Palmer. 1,732,340; Oct. 22.  
 Calenders, Attachment for. J. A. Shively. 1,700,099; Jan. 22.  
 Calibrating instruments. L. E. Hildebrand. 1,724,837; Aug. 13.  
 Calibrating weights. W. O. Snelling. 1,726,931; Sept. 3.  
 Caliper, Indicating. F. L. Chaperlo, and J. W. Zengerle. 1,725,898; Aug. 27.  
 Caliper, Ophthalmic-lens-thickness. J. T. Collins. 1,719,652; July 2.  
 Calipering mechanism, Sheet-. J. H. McElroy. 1,731,633; Oct. 15.  
 Calipers. A. H. Eggers. 1,697,058; Jan. 1.  
 Calipers. E. J. Tjernlund. 1,731,954; Oct. 15.  
 Calk. J. Cowan. 1,730,996; Oct. 8.  
 Calk web, Safety. M. I. Karn. 1,739,237; Dec. 10.  
 Call box, Messenger. G. W. Janson. 1,704,389; Mar. 5.  
 Calling device. H. F. Obergfell. 1,719,992; July 9.  
 Calling device for wireless telegraphy. W. J. Davis. 1,719,535; July 2.  
 Calliope. J. A. Sylvia. 1,725,025; Aug. 20.  
 Callus protector and arch support. F. Calvo. 1,718,853; June 25.  
 Caloric energy, Plant for economically using. O. F. K. Brandt. 1,737,075; Nov. 26.  
 Calorimeter, Recording gas. C. V. Boys. 1,726,140; Aug. 27.  
 Cam construction for cam engines. H. Camlnez. 1,711,260; Apr. 30.  
 Cam-cutting machine. H. B. Scott and E. Warner. 1,714,926; May 28.  
 Cam mechanism applicable to knitting machines. G. S. Blackburn. 1,730,054; Oct. 1.  
 Cam-milling machine. F. Clark and A. V. Sullivan. 1,716,115; June 4.  
 Cam-shaft oiling. B. H. Anibal. 1,707,750; Apr. 2.  
 Cameo. G. Noto. Des. 79,120-22; July 30.  
 Camera. L. W. and J. A. Beeson. 1,730,346; Oct. 8.  
 Camera. A. L. Chapuis. 1,701,492; Feb. 12.  
 Camera. H. W. Davis and C. A. Bornmann. 1,730,409; Oct. 8.  
 Camera. J. B. Hadaway. 1,703,818; Feb. 26.  
 Camera. H. C. Matthews. 1,738,838; Dec. 10.  
 Camera. E. M. Mueller. 1,733,511; Oct. 29.  
 Camera. F. H. Owens. 1,720,744; July 16.  
 Camera. J. R. Peden. 1,725,966; Aug. 27.  
 Camera. W. A. Peters. 1,705,027; Mar. 12.  
 Camera. H. C. Teuton. 1,705,650; Mar. 19.  
 Camera. C. H. Trines. 1,726,087; Aug. 27.  
 Camera and purse, Combination. H. D. Sterick. 1,701,315; Feb. 5.  
 Camera attachment. D. E. Robertson. 1,736,220; Nov. 19.  
 Camera, Automatically-focusing enlarging. B. D. Chamberlin. 1,716,517; June 11.  
 Camera case. A. M. Wessman. 1,707,832; Apr. 2.  
 Camera, Comic. P. J. Knorrp. 1,703,346; Feb. 26.  
 Camera copy, and method of, and medium for, making the same. H. M. Baker. 1,709,600; Apr. 16.  
 Camera, Direct-viewing photographic. A. S. Howell. 1,698,383; Jan. 8.  
 Camera driven by a spring mechanism, Motion-picture. E. Goldberg. 1,704,189; Mar. 5.  
 Camera, Duplex. A. W. Caps. 1,702,995; Feb. 19.  
 Camera, Duplex. E. C. Fritts. 1,730,930; Oct. 8.  
 Camera, Electric flash-light photographic. W. Murray. 1,699,906; Jan. 22.  
 Camera, Film. L. Goldhammer. 1,717,680; June 18.  
 Camera, Film. E. Guérin. 1,707,980; Apr. 9.  
 Camera, Film photographic. U. Nistri. 1,733,234; Oct. 29.  
 Camera finders and the like, Hood for. D. C. Beidler and A. J. Viken. 1,737,038; Nov. 26.  
 Camera for automobiles, Photographic. P. Di Medina. 1,733,783; Oct. 29.



- Camera front. L. W. Lessler and C. A. Bornmann. 1,707,022; Mar. 26.
- Camera, Motion-picture. A. C. Hayden. 1,722,088; July 23.
- Camera, Movie-letter. J. C. Stewart. 1,698,203; Jan. 8.
- Camera, Photographic. L. W. Lessler and C. A. Bornmann. 1,725,460; Aug. 20.
- Camera, Photographic spring. K. Müller. 1,718,173; June 18.
- Camera, Plural-row cinematographic. E. Eriksen and A. Braastad. 1,713,220; May 14.
- Camera, Plural-row motion-picture. J. C. Stewart. 1,730,045; Oct. 1.
- Camera, Reproducing or enlarging. A. W. Caps. 1,739,886; Dec. 17.
- Camera shutter. M. Ellison and E. S. McAuliffe. 1,727,006; Sept. 3.
- Camera shutter. S. M. Fairchild. 1,707,849; Apr. 2.
- Camera-shutter-operating mechanism, Aviation. G. H. Ohlau. 1,698,063; Jan. 8.
- Camera, Telefocus. A. J. Mottlau. 1,729,792; Oct. 1.
- Camera, Telephoto. C. Davidson. 1,724,566; Aug. 13.
- Camera tripods, Tilting head for. G. A. Mitchell. 1,723,294; Aug. 6.
- Cameras and other optical instruments, Gyroscopic stabilization of. J. B. Henderson. 1,709,314; Apr. 16.
- Cameras, Direct-vision light-meter view scope for. G. Ramsey. 1,721,411; July 16.
- Cameras, Enlarging extension for. F. Allison. 1,724,866; Aug. 13.
- Cameras, Focusing device for. L. W. Lessler and C. A. Bornmann. 1,720,224; July 9.
- Cameras, Focusing hood for. W. W. Hook. 1,724,089; Aug. 13.
- Cameras, High-light stop for. C. G. Johnson. 1,732,051; Oct. 15.
- Cameras, Information-recording attachment for. S. M. Fairchild. 1,723,926; Aug. 6.
- Cameras, Lens mount for. O. Wittel. 1,705,385; Mar. 12.
- Cameras, Multiplier appliance for. D. J. Ray. 1,726,313; Aug. 27.
- Cameras, Recording device for. F. J. Kawatch. 1,731,198; Oct. 8.
- Cameras, Removable objective mount for photographic. C. C. Fuerst. 1,736,436; Nov. 19.
- Cameras, Shutter lock for. J. H. Olcott. 1,740,112; Dec. 17.
- Cameras, Winding means for motion-picture. L. Azarraga. 1,739,113; Dec. 10.
- Camp house, Folding. R. H. Athey. 1,721,198; July 16.
- Camp table. W. McGilvery. 1,702,876; Feb. 19.
- Camp table, Auto. H. B. Smith. 1,706,192; Mar. 19.
- Camp table, Folding. T. J. Boettger. 1,731,920; Oct. 15.
- Camper's outfit case. L. Wing. 1,716,612; June 11.
- Camping outfit for automobilists. H. W. Jamicke. 1,712,213; May 7.
- Camping outfit, Portable screen. R. C. Pieri, sr. 1,702,170; Feb. 12.
- Camphene from pinene hydrochloride, Production of. H. Gammay. 1,721,990; July 23.
- Camphor from borneols, Making. H. Gammay. 1,710,573; Apr. 23.
- Camphor, Manufacturing of synthetic. L. Dupont. 1,733,218; Oct. 29.
- Can: See—
- Dispensing can. Oil can.
- Dredge top can. Sprinkle-top can.
- Dredging can. Sprinkling can.
- Ice can. Talcum-powder can.
- Measuring can. Tearing-strip can.
- Metal can. Tobacco can.
- Can. G. A. Bardet. 1,719,581; July 2.
- Can. E. Hildebrandt. 1,734,378; Nov. 5.
- Can. J. S. Johantges. 1,734,730; Nov. 5.
- Can. H. von Briesen and R. N. Ink. 1,726,090; Aug. 27.
- Can. F. Westerbeck. 1,714,996; May 28.
- Can and cover, Ash. G. R. Le Sauvage. 1,714,384; May 21.
- Can and opening the same, Metal. A. K. Johnson. 1,719,295; July 2.
- Can and valve lifter. A. J. Adam. 1,708,749; Apr. 9.
- Can-body forming machine. W. Cameron. 1,722,556; July 30.
- Can-body-forming wings. P. Kruse. 1,723,737; Aug. 6.
- Can capper. R. Stoppel. 1,704,227; Mar. 5.
- Can-capping machine. C. T. Small. 1,712,234; May 7.
- Can caps to swaging devices, Mechanism for feeding. B. E. Taylor. 1,721,264; July 16.
- Can-closing machine. H. L. Bryant. 1,716,618; June 11.
- Can-closing machine. J. M. Hothersall. 1,714,875; May 28.
- Can-containing pitchers, Milk. L. B. Paulson. 1,710,239; Apr. 23.
- Can-distributing system. J. E. Albertoli. 1,729,237; Sept. 24.
- Can-double-seaming machine. F. Hunter. 1,699,069; Jan. 15.
- Can ends, Forming and applying. J. M. Hothersall. 1,730,575; Oct. 8.
- Can feeder, drainer, and syruer, Combined. A. R. Thompson. 1,714,114; May 21.
- Can feeder, drainer, and syruer, Combined. A. R. Thompson. 1,714,146; May 21.
- Can feeder for vertical coolers. A. R. Thompson. 1,721,193; July 16.
- Can-feeding apparatus. C. H. Wild. 1,713,684; May 21.
- Can-feeding machine. J. A. May. 1,716,968; June 11.
- Can-filling machine. C. H. Ayars. 1,719,580; July 2.
- Can-filling machine. O. H. Hansen. 1,734,166; Nov. 5.
- Can group for ice manufacture. S. E. Lauer. 1,700,359; Jan. 29.
- Can guide. W. J. Koch. 1,735,825; Nov. 12.
- Can, Handle. J. A. Fields. 1,719,398; July 2.
- Can handle, Milk. J. L. Sheehan. 1,705,071; Mar. 12.
- Can-inverting device for can-washing machines. W. E. Mitton. 1,721,255; July 16.
- Can jacket. P. C. Goodrick. 1,729,438; Sept. 24.
- Can-joint making and apparatus. W. E. Burns. 1,720,663; July 16.
- Can lifter. W. E. Culp. 1,716,849; June 11.
- Can, Method and apparatus for forming an interiorly beaded or looped tearing-strip. G. F. Walter. 1,705,843-4; Mar. 19.
- Can opener. W. M. Anderson. 1,700,463; Jan. 29.
- Can opener. S. B. Cooke. 1,702,462; Feb. 19.
- Can opener. H. J. Edlund. 1,713,823; May 21.
- Can opener. H. J. Edlund. 1,718,125; June 18.
- Can opener. E. Enderes. 1,699,329; Jan. 15.
- Can opener. H. Garrison. 1,734,517; Nov. 5.
- Can opener. M. D. Gibson. 1,737,713; Dec. 3.
- Can opener. W. D. Lamb. 1,728,569; Sept. 17.
- Can opener. J. Malcolm. 1,706,894; Mar. 26.
- Can opener. G. Meier. 1,709,861; Apr. 23.
- Can opener. J. S. Patterson. 1,702,948-9; Feb. 19.
- Can opener. H. E. Plack. 1,724,722; Aug. 13.
- Can opener. H. L. Vaughan. 1,715,524; June 4.
- Can opener, sealer, and handle, Combined. J. Pico. 1,718,703; June 25.
- Can-opening device. F. A. Roth. 1,707,946; Apr. 2.
- Can or container. A. P. Heinze. 1,702,541; Feb. 19.
- Can or container, Rip-strip. H. Hermani. 1,727,827; Sept. 10.
- Can punch and vent. C. W. and E. M. Bassett. 1,709,514; Apr. 16.
- Can raising and discharging mechanism for can-bolling devices. A. S. Morsa. 1,700,443; Jan. 29.
- Can-seaming machine. J. Wery. 1,711,336; Apr. 30.
- Can-seaming machine, Combination trap and circuit-closer for. M. Rivera. 1,736,092; Nov. 19.
- Can-spacing mechanism. N. P. Bach. 1,713,068; May 14.
- Can spout, Oil. M. J. Johnson. 1,717,108; June 11.
- Can tops, Forming. M. J. Welling. 1,736,422; Nov. 19.
- Can washer, Automatic. A. N. Olmsted. 1,717,998; June 18.
- Can washers, Delivery mechanism for. O. Larsen. 1,724,096; Aug. 13.
- Can-washing machine. F. F. Wolf. 1,716,406; June 11.
- Canceled postage stamps on mail, Automatic positioning device for. E. P. Roddy. 1,729,521; Sept. 24.
- Canned sliced apples and canning the same. B. C. Coons. 1,735,526; Nov. 12.
- Canning abalone. T. Domoto. 1,738,064; Dec. 3.
- Canning apparatus. O. T. Douglass. 1,736,257; Nov. 19.
- Canning apparatus. A. R. Thompson. 1,721,752-3; July 23.
- Canning baked beans. G. M. Bartlett. 1,718,187; June 18.
- Canning citrus fruit, Apparatus for. A. W. Stott. 1,716,631; July 2.
- Canning corn. M. E. Lower. 1,741,724; Dec. 31.
- Canning machine. C. H. Ayars. 1,717,826; June 18.
- Canning meat. J. W. Richardson and P. W. Wolllett. 1,723,710; Aug. 6.
- Cans and the like, Device for opening tin. G. L. Ericsson. 1,733,684; Oct. 29.
- Cans, Method and apparatus for forming tearing-strip. G. F. Walter. 1,698,285; Jan. 8.
- Cans, Ripping unit for metal. A. L. Combes. 1,723,604; Aug. 6.
- Candleabrum. H. W. Johnson. 1,721,273; July 16.
- Candle. P. K. Funke. 1,701,844; Feb. 12.
- Candle and its manufacture, Decorative. L. M. Tasker. 1,709,889; Apr. 23.
- Candle and making the same, Decorative. D. O. C. Deckert. 1,704,729; Mar. 12.
- Candle-assembling machine. L. W. Moulton. 1,702,229; Feb. 12.
- Candle decoration. F. E. King. 1,714,674; May 28.
- Candle, Electric. W. A. Black. 1,725,048; Aug. 20.
- Candle, Electric. W. A. Black. 1,736,820; Nov. 26.
- Candle machine. A. and G. Gisolfi. 1,721,513; July 23.
- Candle, Safety. C. O. Gross. 1,710,418; Apr. 23.
- Candle snuffer and lighter, Combined. C. A. Payne. 1,740,623; Dec. 24.
- Candle socket. K. K. Nielsen. 1,703,538; Feb. 26.
- Candle tumbler or similar article. H. Rithner. Des. 80,187; Dec. 24.
- Candles and its product, Finishing. D. G. Lewis. 1,726,304; Aug. 27.
- Candlestick. J. C. Kelly. Des. 78,400; Apr. 30.
- Candlestick. H. C. Kirk. Des. 80,236; Dec. 31.
- Candlestick. M. W. Reh. Des. 78,984; July 16.
- Candlestick base or article of analogous nature. L. Hecht. Des. 77,954; Mar. 12.
- Candlestick base or article of analogous nature. L. Zweig. Des. 79,347; Sept. 3.
- Candlestick holder or similar article. R. E. McEldowney. Des. 77,971; Mar. 12.
- Candlestick or analogous article. P. Cricchio. Des. 79,185; Aug. 13.
- Candlestick or similar article. G. N. Allen. Des. 79,688; Oct. 29.



- Candy box. E. G. Levkoff. Des. 80,035; Dec. 3.  
 Candy-cutting machine. A. Olsen, jr., and J. A. Olsen. 1,740,111; Dec. 17.  
 Candy doll. H. S. Moore. Des. 79,894; Nov. 12.  
 Candy doll or similar article. M. D. King. Des. 78,979; July 16.  
 Candy forming and cutting machine. M. T. Scholl. 1,703,962; Mar. 5.  
 Candy-making machine. W. N. Hartshorn. 1,708,062; Apr. 9.  
 Candy-making machine. S. C. Peckham. 1,707,066; Mar. 26.  
 Candy mold. C. R. Griffith. 1,705,328; Mar. 12.  
 Candy-packaging machine. W. B. Bronander and J. W. Leary. 1,710,689; Apr. 30.  
 Candy unit. L. Scharf. Des. 77,708; Feb. 12.  
 Cane construction. A. Soriente. 1,701,866; Feb. 12.  
 Cane cutter. L. Ankenbauer. 1,708,350; Apr. 9.  
 Cane-cutting machine. J. A. Barrier and J. H. Barrier. 1,716,754; June 11.  
 Cane mill. W. L. Beall. 1,709,552; Apr. 16.  
 Cane mill. F. Farrel, jr. 1,696,943-5; Jan. 1.  
 Cane-piling machine. J. M. Caffery. 1,718,852; June 25.  
 Canine operating table. W. P. Jackson. 1,704,045; Mar. 5.  
 Canoe or boat construction. J. F. Hyde. 1,723,278; Aug. 6.  
 Canopy and extension, Ceiling. A. F. Wakefield. 1,730,255; Oct. 1.  
 Canopy, Collapsible rumble-seat. J. F. Lucas. 1,727,438; Sept. 10.  
 Canopy, Electric-light-fixture. G. E. Villaret. Des. 78,070; Mar. 19.  
 Canopy for beds. C. I. Still. 1,707,647; Apr. 2.  
 Canopy for electric-light fixtures. K. A. Sawin. 1,733,277; Oct. 29.  
 Canopy for gondola cars. A. T. McWane. 1,722,533; July 30.  
 Canopy for tractors. D. W. Cushman. 1,716,212; June 4.  
 Canopy for tractors. E. J. Tucker. 1,712,593; May 14.  
 Canopy, Jump-seat. J. B. Collins. 1,710,013; Apr. 23.  
 Canopy, Protecting. C. Collender. 1,732,878; Oct. 22.  
 Canopy, Stemless. A. K. Sutherland. 1,709,288; Apr. 16.  
 Canopy switch. P. E. Burns. 1,703,720; Feb. 26.  
 Canopy switch. D. M. Le Fever. 1,711,417; Apr. 30.  
 Canvas-handling mechanism. E. E. Evans. 1,732,191; Oct. 15.  
 Caoutchouc composition. A. Biddle. 1,721,553; July 30.  
 Caoutchouc, Compounding. R. P. Dinsmore. 1,712,333; May 7.  
 Cap. H. Bender. Des. 77,666; Feb. 12.  
 Cap. J. Carlson. 1,724,071; Aug. 13.  
 Cap. R. E. Christopher. 1,716,719; June 11.  
 Cap. E. W. Ingram. 1,725,803; Aug. 27.  
 Cap. S. Kantrowitz. 1,726,270; Aug. 27.  
 Cap. D. Karger. 1,697,507; Jan. 1.  
 Cap, Adjustable. J. Carlson. 1,738,638; Dec. 10.  
 Cap, Adjustable. F. C. Murnan. 1,714,037; May 21.  
 Cap and plug, Radiator. N. Kramer. 1,710,363; Apr. 23.  
 Cap and the production thereof, Paper hood. W. L. Wright. 1,709,511; Apr. 16.  
 Cap. Boudoir. B. Pier. 1,701,984; Feb. 12.  
 Cap, Cloth. L. I. Pekowsky. 1,717,169; June 11.  
 Cap extractor. W. H. Matthies. 1,716,528; June 11.  
 Cap-feeding mechanism. W. Cameron. 1,737,569; Dec. 3.  
 Cap for containers. F. and W. Schlayer. 1,726,966; Sept. 3.  
 Cap for flasks or the like. C. Lamar. 1,713,836; May 21.  
 Cap for lamp standards. C. F. Haas. Des. 78,516; May 14.  
 Cap for milk bottles, Disk. A. K. Rayner. 1,730,292; Oct. 1.  
 Cap for pencils and pens. T. J. Cichon. 1,714,947; May 28.  
 Cap for receptacles. L. L. Funk. 1,722,461; July 30.  
 Cap, Knitted S. Marcussen. Des. 77,967; Mar. 12.  
 Cap, Lady's. E. Caplan. 1,721,332; July 16.  
 Cap lifter, Milk-bottle. R. Poulson. 1,725,477; Aug. 20.  
 Cap lock. J. J. Sarrazin. 1,736,838; Nov. 26.  
 Cap lock, Gas-tank. G. T. Kuhns and R. S. Wiles. 1,722,527; July 30.  
 Cap, Miner's safety helmet. J. Vanusek. 1,722,869; July 30.  
 Cap or closure for containers and fabricating the same. W. Poranski. 1,726,122; Aug. 27.  
 Cap or stopper for bottles, canisters, jars, and the like. W. F. Young. 1,739,434; Dec. 10.  
 Cap or stopper for containers and making it. M. W. Powell. 1,728,699; Sept. 17.  
 Cap plug. L. Barnett. 1,718,518; June 25.  
 Cap, Quick-detachable dust. A. E. Bronson. 1,739,287; Dec. 10.  
 Cap remover. A. J. Lehmann. 1,721,823; July 23.  
 Cap remover, Crown-. T. Harding. 1,711,678; May 7.  
 Cap remover, Milk-bottle. O. H. Parry. 1,708,454; Apr. 9.  
 Cap, Sanitary. E. M. Tuggey. 1,703,848; Feb. 26.  
 Cap-shaped contrivance for closing vessels or receptacles. R. Landau. 1,722,637; July 30.  
 Cap, Ventilated. I. Kapan. 1,725,520; Aug. 20.  
 Capacity apparatus, Variable. C. D. Tuska. 1,737,277; Nov. 26.  
 Cape. E. W. Bullard. 1,729,817; Oct. 1.  
 Cape. F. L. Clawson. 1,705,963; Mar. 19.  
 Capital, Plumed. A. A. Cantin. Des. 77,530; Jan. 22.  
 Caponizing instrument. H. B. Deutsch. 1,729,506; Sept. 24.  
 Caponizing instrument. A. G. Ioerger. 1,739,146; Dec. 10.  
 Capper, Bottle. H. J. Lebherz. 1,734,630; Nov. 5.  
 Capping machine. G. W. Chalmers. 1,715,352; June 4.  
 Capping machine. A. J. Jonsson. 1,723,549; Aug. 6.  
 Capping machine. C. W. Loufek. 1,696,961; Jan. 1.  
 Capping machine. A. Podel. 1,729,454; Sept. 24.  
 Capping machine. C. L. Turner. 1,731,600; Oct. 15.  
 Capping machine, Bottle-. S. L. Goldman. 1,727,057; Sept. 3.  
 Caps, Apparatus for extruding. F. J. Lynch. 1,726,442; Aug. 27.  
 Caps for cans and the like, Apparatus for feeding. J. M. McClatchie. 1,721,254; July 16.  
 Caps, Method and apparatus for making. C. Hammer. 1,728,274; Sept. 17.  
 Caps on cans, Mechanism for placing. J. M. McClatchie. 1,738,783; Dec. 10.  
 Caps or lids of gasoline tanks and the like, Operating means for. M. F. Harris. 1,736,971; Nov. 26.  
 Capstan. H. S. Albrecht. 1,735,711; Nov. 12.  
 Capsule. K. K. Keller. 1,701,811; Feb. 12.  
 Capsule filling and closing machine. K. W. Schmidt. 1,716,009; June 4.  
 Capsule-filling machinery. L. F. Hellman and J. Dahl. 1,701,887; Feb. 12.  
 Capsule for hypodermic syringes. H. K. Nicoll. 1,704,921; Mar. 12.  
 Capsule, Pneumatic vibrating. L. Pineschl and A. Quintiliani. 1,714,443; May 21.  
 Car, Amusement. J. C. and H. G. O. Phillips. 1,703,360; Feb. 26.  
 Car and door mechanism therefor, Dump. A. Campbell. 1,705,805; Mar. 19.  
 Car and sleeper, Convertible parlor chair. B. V. Souto. 1,711,067; Apr. 30.  
 Car, Articulated. J. A. Brooks. 1,731,122; Oct. 8.  
 Car, Articulated. R. W. Joy. 1,727,710-12; Sept. 10.  
 Car, Articulated. E. Latshaw. 1,740,358; Dec. 17.  
 Car, Articulated. A. E. Ostrander and V. Willoughby. 1,727,067; Sept. 10.  
 Car, Articulated. E. R. Viereg. 1,726,872; Sept. 3.  
 Car, Articulated. E. R. Viberg. 1,733,705; Oct. 29.  
 Car, Bedroom. E. F. Carry. 1,712,811; May 14.  
 Car berth, Sleeping-. K. H. Middendorf. 1,739,321; Dec. 10.  
 Car berth, Sleeping-. C. S. Sweet. 1,699,768; Jan. 22.  
 Car body. L. P. Armstrong. 1,727,044; Sept. 3.  
 Car-body construction. W. D. Thompson. 1,737,527; Nov. 26.  
 Car body, Motor-. E. P. Jones. 1,734,213-14; Nov. 5.  
 Car, Body of a motor-driven funeral. E. E. Hess. Des. 77,550; Jan. 22.  
 Car-body-fitting mechanism, Dump-. W. L. Burner. 1,698,535; Jan. 8.  
 Car, Cable. C. G. Noble and J. T. King. 1,700,808; Feb. 5.  
 Car cager. G. W. Merritt. 1,735,777; Nov. 12.  
 Car, Cane. J. J. McBride. 1,727,661; Sept. 10.  
 Car, Coal. G. J. Duffy. 1,705,006; Mar. 12.  
 Car, Coke-quenching. J. P. Pinder. 1,697,475; Jan. 1.  
 Car, Combination refrigerator and poultry. W. P. Johnson. 1,702,781; Feb. 19.  
 Car, Compartment freight. W. F. Kiesel, jr. 1,710,737; Apr. 30.  
 Car construction. T. C. Cork. 1,699,521; Jan. 22.  
 Car construction. O. C. Duryea. 1,719,105; July 2.  
 Car construction. O. C. Duryea. 1,732,675; Oct. 22.  
 Car construction. O. C. Duryea. 1,735,424; Nov. 12.  
 Car construction. H. Fuchs. 1,737,582; Dec. 3.  
 Car construction. W. A. Geiger. 1,739,223; Dec. 10.  
 Car construction. S. B. Haseltine. 1,738,703; Dec. 10.  
 Car construction. S. B. Haseltine. 1,739,229; Dec. 10.  
 Car construction. D. Hindahl and J. O. Neikirk. 1,711,785; May 7.  
 Car construction. J. McMullen. 1,725,659; Aug. 20.  
 Car construction. W. H. Miner. 1,730,522; Oct. 8.  
 Car construction. W. H. Miner. 1,730,860; Oct. 8.  
 Car construction. J. F. O'Connor. 1,730,235; Oct. 1.  
 Car construction. J. F. O'Connor. 1,730,823-4; Oct. 8.  
 Car construction. L. E. Shipp. 1,698,457; Jan. 8.  
 Car construction. A. E. Zimmer. 1,725,042; Aug. 20.  
 Car construction, Hopper-. W. E. Wine. 1,705,147; Mar. 12.  
 Car construction, Railroad-. E. A. Self. 1,724,149; Aug. 13.  
 Car construction, Railway-. W. W. Blakely. 1,724,555; Aug. 13.  
 Car construction, Railway-. W. C. Sleeman. 1,736,292; Nov. 19.  
 Car construction, Street-. W. Midgley. 1,740,995; Dec. 24.  
 Car, Container. F. H. Gibbs and V. Willoughby. 1,699,528-9; Jan. 22.  
 Car-control equipment, Safety. E. R. Fitch. 1,727,371; Sept. 10.  
 Car, Controlled-discharge dump. W. J. Hosceit. 1,706,610; Mar. 26.  
 Car coupler. C. W. Dowling. 1,698,991; Jan. 15.  
 Car coupler. R. J. Wittmer. 1,702,372; Feb. 19.  
 Car-coupler-positioning device. A. E. Small. 1,713,884; May 21.  
 Car couplers, Attachment for. J. A. Hughes. 1,717,036; June 11.  
 Car couplers, Positioning device for. A. E. Small. 1,713,885; May 21.



- Car couplers, Positioning device for railway-. A. E. Small. 1,710,746; Apr. 30.
- Car coupling. W. McConway, jr., and W. Kelso. 1,712,626; May 14.
- Car coupling. J. C. Whitridge. 1,703,049; Feb. 19.
- Car-door lock. D. Hindahl. 1,716,635; June 11.
- Car-door operating and locking means, Refrigerator-. J. F. O'Connor. 1,720,143; July 9.
- Car-door signal. Y. Miyaoka. 1,727,838; Sept. 10.
- Car, Dump. G. B. Dorey. 1,706,353; Mar. 19.
- Car, Dump. H. G. Mahan. 1,718,165; June 18.
- Car, Dump. J. O. Neikirk. 1,710,889; Apr. 30.
- Car, Dump. E. R. Viberg and A. L. Linderblad. 1,722,830; July 30.
- Car dump, Rotary. G. W. Merritt. 1,735,778; Nov. 12.
- Car dumper. R. W. Kaltenbach. 1,707,984; Apr. 9.
- Car, Dumping. J. A. Hebb. 1,722,374; July 30.
- Car, Dumping. G. A. Minetty. 1,725,994; Aug. 27.
- Car-dumping device. J. B. Strauss. 1,735,022; Nov. 12.
- Car end, Metal. C. E. Ecklund and W. W. Darrow. 1,734,247; Nov. 5.
- Car-feeding apparatus. G. M. Johnson. 1,733,265; Oct. 29.
- Car, Fluid-pressure-operated railway dump. A. C. Schmolli and J. P. Anderson. 1,711,211; Apr. 30.
- Car for aircraft, Cushioned. W. C. Ward. 1,717,533; June 18.
- Car for incline railways, Lowering. H. Potrafke and R. N. Allen. 1,708,190; Apr. 9.
- Car frame. G. S. Goodwin and W. J. Tollerton. 1,741,188; Dec. 31.
- Car frame, Railway-. J. D. Thompson and V. Willoughby. 1,727,681; Sept. 10.
- Car-frame reinforcement, Railway. W. B. Gregg. 1,730,035; Oct. 1.
- Car, Freight. W. E. Wine. Re17,285; Apr. 23.
- Car, Freight. W. E. Wine. 1,698,865-7; Jan. 15.
- Car, Freight. W. E. Wine. 1,703,756; Feb. 26.
- Car, Freight box. J. P. Porter. 1,715,307; May 28.
- Car, Fuel and water supply. A. Stefani. 1,707,821; Apr. 2.
- Car, Gas-electric. J. A. Brooks. 1,736,695; Nov. 19.
- Car hanger. F. S. Combs, jr. 1,740,415; Dec. 17.
- Car heater. S. Vernet. Re17,431; Sept. 10.
- Car heater. S. Vernet. 1,705,550; Mar. 19.
- Car heater, Electric. G. F. Wennagel and C. Thomas. 1,697,443; Jan. 1.
- Car, Hot-metal. C. P. Astrom. 1,708,007; Apr. 9.
- Car indicator. L. N. Wheeler. 1,718,674; June 25.
- Car, Insulated tank. V. Willoughby. 1,727,684; Sept. 10.
- Car journal-box construction, Railway-. T. V. Buckwalter. 1,705,553; Mar. 19.
- Car, Kiln. G. D. Morris and G. Klein. 1,739,176; Dec. 10.
- Car loading gate, Automatic tram-. H. B. Oettie. 1,740,743; Dec. 24.
- Car, Mail or express. J. K. Lencke. 1,719,985; July 9.
- Car, Mine. L. Almqvist. 1,727,689; Sept. 10.
- Car, Mine. J. H. Linhardt. 1,729,113; Sept. 24.
- Car, Mine. C. M. Rogers. 1,727,673; Sept. 10.
- Car, Mine. D. H. Turner. 1,725,604; Aug. 20.
- Car, Mine. W. V. Johnson and R. C. Kepner. 1,699,535; Jan. 22.
- Car, Mining transfer. E. C. Pratt. 1,714,239; May 21.
- Car, Motor. M. Fischer. 1,724,649; Aug. 13.
- Car, Motor-driven. B. F. Teetor. 1,709,961; Apr. 23.
- Car mover. F. A. Durbin and C. McGee. 1,712,334; May 7.
- Car, Multicontainer freight. F. K. Fildes. 1,733,726; Oct. 29.
- Car, Multiunit tank. V. Willoughby. 1,699,649; Jan. 22.
- Car, Passenger. H. Albin. 1,728,169; Sept. 17.
- Car, Pivotal cooling. A. P. Grobena. 1,716,955; June 11.
- Car platform, Coke-quenching. S. D. Wright. 1,713,730; May 21.
- Car-position-indicator system. H. M. Friendly. 1,730,002; Oct. 1.
- Car, Poultry. I. V. Edgerton. 1,699,524-5; Jan. 22.
- Car, Poultry. I. V. Edgerton. 1,711,112; Apr. 30.
- Car puller, Mine-. J. W. Stedelin and G. Klein. 1,727,678; Sept. 10.
- Car, Pullman. F. W. Weihe. 1,701,867; Feb. 12.
- Car, Railway. J. F. Baker. 1,723,718; Aug. 6.
- Car, Railway. T. Elliott. 1,696,942; Jan. 1.
- Car, Railway. T. Elliott. 1,729,036; Sept. 24.
- Car, Railway. B. W. Kadel. 1,708,794; Apr. 9.
- Car, Railway. B. W. Kadel. 1,737,927; Dec. 3.
- Car, Railway. T. Kopf. 1,700,898; Feb. 5.
- Car, Railway. H. W. Sanford. 1,705,098; Mar. 12.
- Car, Railway. J. D. Thompson. 1,727,680; Sept. 10.
- Car, Railway box freight. G. R. Joughins. 1,710,987; Apr. 30.
- Car, Refrigerator. G. A. Hull. 1,741,630; Dec. 31.
- Car, Refrigerator. H. A. Simms. 1,716,867; June 11.
- Car, Refrigerator. D. F. Smith. 1,712,905; May 14.
- Car, Refrigerator. W. C. Stone. 1,707,330; Apr. 2.
- Car replacer. H. G. Becker. 1,733,855; Oct. 29.
- Car replacer. C. C. Scott. 1,713,453; May 14.
- Car replacer. L. B. See. 1,735,360; Nov. 12.
- Car retarder. L. O. Grondahl. 1,728,562; Sept. 17.
- Car retarder. W. J. Laffey. 1,716,825; June 11.
- Car retarder, Magnetic. O. A. Ross. 1,730,334; Oct. 1.
- Car retarder, Railway-. T. J. O'Meara. 1,698,447; Jan. 8.
- Car, Retort cradle. G. A. Colman. 1,713,689; May 21.
- Car roof. C. D. Bonsall. 1,718,027-9; June 18.
- Car roof. C. D. Bonsall. 1,729,923; Oct. 1.
- Car roof. E. R. Swanson. 1,720,976; July 16.
- Car, Safety incline. A. G. Toney. 1,703,799; Feb. 26.
- Car seat. J. A. Brooks. 1,717,311; June 11.
- Car seat. J. B. Kilburn. 1,711,268; Apr. 30.
- Car seat. J. B. Kilburn. 1,735,320-1; Nov. 12.
- Car-seat back. D. I. Levine. 1,713,542; May 21.
- Car, Selective dump. H. S. Hart. 1,706,607; Mar. 26.
- Car, Self-discharging. G. Immand and C. Janssen. 1,728,061; Sept. 10.
- Car, Stone-quarry skip. W. E. Farrell. 1,712,495; May 14.
- Car stop, Automatic mine-. S. Jennings. 1,701,040; Feb. 5.
- Car-stop device. G. M. Johnson. 1,738,008; Dec. 3.
- Car-switching apparatus. A. Lancelotte. 1,697,922; Jan. 8.
- Car tank. A. Miller. 1,720,399; July 9.
- Car, Tower. H. W. Protzeller. 1,718,979; July 2.
- Car truck and brake mounting, Railway-. O. J. Horger. 1,705,568; Mar. 19.
- Car-truck construction. H. R. Gibbons. 1,726,557; Sept. 3.
- Car-truck side frame, Railway-. R. H. Davenport and J. Porter. 1,740,338; Dec. 17.
- Car underframe. D. S. Barrows. 1,701,553; Feb. 12.
- Car underframe, Railway-. W. B. Gregg. 1,698,948; Jan. 15.
- Car unit, Poising the passageway member in an articulated. F. M. Brinkerhoff. 1,713,166; May 14.
- Car unit, Portable rail-. J. S. Oechsle. 1,727,114; Sept. 3.
- Car unloader. F. H. Biggs. 1,716,101; June 4.
- Car unloader. L. J. Robb. 1,732,537; Oct. 22.
- Car wheel. M. W. Powell. 1,729,295; Sept. 24.
- Car wheel. J. J. Trant and M. Jensen. 1,728,641; Sept. 17.
- Car wheel, Industrial. E. A. Exton. 1,737,223; Nov. 26.
- Car wheels, Making pressed-steel. J. R. Winter. 1,733,414; Dec. 3.
- Car with a side passage or corridor, Sleeping. A. Lüneburg. 1,718,699; June 25.
- Cars, Adjustable bulk head for refrigerator. D. Kupelian. 1,721,563; July 23.
- Cars, Apparatus for handling mine. C. A. Hoover. 1,697,356; Jan. 1.
- Cars, Apparatus for tipping and discharging railway. B. E. Elison. 1,703,766; Feb. 26.
- Cars, Attachment for railway mail and express. P. H. Knoll. 1,703,153; Feb. 26.
- Carbide feeders, Controlling means for. E. H. Smith. 1,709,885; Apr. 23.
- Carbon, Activating. J. C. Morrell. 1,712,930; May 14.
- Carbon, Activating. J. C. Morrell. 1,713,347; May 14.
- Carbon, Activation of. J. Drucker. 1,709,611; Apr. 16.
- Carbon, Apparatus for the manufacture of. A. Lederer. 1,700,942; Feb. 5.
- Carbon black, Apparatus for the production of. R. H. Uhlinger. 1,718,720; June 25.
- Carbon black, Method and apparatus for producing. C. Matlock. 1,738,716; Dec. 10.
- Carbon black, Producing. R. H. Uhlinger. 1,707,775; Apr. 2.
- Carbon-capping method and device. G. G. Gunderson. 1,706,155; Mar. 19.
- Carbon, Carbon-sheet. G. G. Neidich. 1,714,314; May 21.
- Carbon control for arc lamps. L. S. Kubiac. 1,698,917; Jan. 15.
- Carbon, Decolorizing. E. Urbain. 1,700,342; Jan. 29.
- Carbon, Decolorizing. E. Urbain. 1,709,503; Apr. 16.
- Carbon dioxide, Producing reduction products of. A. O. Jaeger. 1,735,925; Nov. 19.
- Carbon-dioxide snow, Making. T. B. Slate. 1,735,094; Nov. 12.
- Carbon disulphide, Production of. M. Pier and K. Winkler. 1,735,409; Nov. 12.
- Carbon, disulphide, Refining raw. P. Siedler and E. Schulte. 1,733,171; Oct. 29.
- Carbon filaments, Manufacturing. A. Lederer. 1,700,901; Feb. 5.
- Carbon into liquid hydrocarbon, Converting solid. P. Danckwardt. 1,730,997; Oct. 8.
- Carbon, Manufacture of articles from molten. S. Münch. 1,736,832; Nov. 26.
- Carbon, Manufacturing. A. Lederer. 1,725,359; Aug. 20.
- Carbon monoxide and hydrogen from hydrocarbons, Preparation of mixtures of. L. Casale. 1,734,559; Nov. 5.
- Carbon monoxide, Apparatus for the production of. W. C. Arsem. 1,740,139; Dec. 17.
- Carbon monoxide, Production of. W. C. Arsem. 1,719,867; July 9.
- Carbon monoxide, Reducing products of. A. O. Jaeger. 1,741,306-8; Dec. 31.
- Carbon-paper-roll-trimming mechanism. S. A. Neidich and G. G. Neidich. 1,714,395; May 21.
- Carbon, Preparation of granular. H. H. Lowry. 1,722,055; July 23.
- Carbon, Preparing absorptive. A. B. Ray. 1,736,051; Nov. 19.
- Carbon-recovery system and apparatus. A. Heinrich. 1,702,968; Feb. 19.
- Carbon saver. M. Kravitz and H. W. Kiks. 1,723,626; Aug. 6.
- Carbon separation and control. Construction facilitating multiple. E. K. Bottle. 1,736,427; Nov. 19.
- Carbon set or pile. L. E. Lentz. 1,702,834; Feb. 19.
- Carbon-sheet-attaching means. J. A. B. Smith. 1,735,138; Nov. 12.
- Carbonaceous material and making same. H. N. Gilbert. 1,714,165; May 21.



- Carbonaceous material, Distilling solid. S. Hiller. 1,735,394; Nov. 12.
- Carbonaceous material from oil-treating apparatus, Apparatus for removing. L. C. Huff. 1,703,623; Feb. 26.
- Carbonaceous material, Method of and apparatus for the distillation of. O. H. Hertel. 1,731,165; Oct. 8.
- Carbonaceous material, Utilizing. D. Pyzel. 1,699,989; Jan. 22.
- Carbonates, Production of alkali-metal. L. Bradley and E. P. McKee. 1,702,588; Feb. 19.
- Carbonating apparatus. H. S. and L. Stinson. 1,713,787; May 21.
- Carbonization of coal. S. McEwen. Re17,181; Jan. 1.
- Carbonization of destructive distillation. S. McEwen. Re17,182; Jan. 1.
- Carbonizing a cellulose-containing substance, such as wood, peat, and the like. C. G. Schwalbe. 1,728,807; Sept. 17.
- Carbonizing apparatus. G. W. Wallace. 1,728,582; Sept. 17.
- Carbonizing coal and like material, Method of and apparatus for. I. F. Laucks. 1,713,840; May 21.
- Carbonizing coal and the like, Apparatus for. F. C. Greene and I. F. Laucks. 1,723,932; Aug. 6.
- Carbonizing coal, Apparatus for. R. L. Rodgers. 1,704,103; Mar. 5.
- Carbonizing material containing oil, fat, tar, or the like, Process of and apparatus for. P. Plantinga. 1,738,202; Dec. 3.
- Carbonizing process. E. A. Dieterle. 1,739,786; Dec. 17.
- Carbonizing the organic constituents of sulphite cellulose lye. C. G. Schwalbe. 1,731,354; Oct. 15.
- Carbons, Manufacture of active. E. Urbain. 1,735,096; Nov. 12.
- Carboxylated N-amino-alkylaminonaphthalenes. W. Hentrich. 1,727,506; Sept. 10.
- Carboys, Stand for. W. H. Woodin, jr. 1,710,757; Apr. 30.
- Carburation means. H. W. Dengate. 1,703,515; Feb. 26.
- Carbureting air. R. O. King. 1,724,942; Aug. 20.
- Carbureting apparatus. C. H. Claudel. 1,730,191; Oct. 1.
- Carbureting apparatus. G. Constantinesco. 1,730,268; Oct. 1.
- Carbureting device. R. S. Strong. 1,707,824; Apr. 2.
- Carbureting liquids similar to petrol, Manufacture of. E. A. Prudhomme. 1,711,855; May 7.
- Carbureting system for internal-combustion engines. P. S. Tice. 1,737,813; Dec. 3.
- Carburetor. J. M. Amador. 1,712,129; May 7.
- Carburetor. J. Audino. 1,715,183-4; May 28.
- Carburetor. A. A. Ayers. 1,703,982; Mar. 5.
- Carburetor. G. Bariquand. 1,715,269; May 28.
- Carburetor. W. L. and E. W. Baumgardner. 1,706,557; Mar. 26.
- Carburetor. E. V. Beals. 1,739,817-18; Dec. 17.
- Carburetor. E. C. Beasley. 1,737,070; Nov. 26.
- Carburetor. R. F. Bracke. 1,705,282; Mar. 12.
- Carburetor. A. J. Bright. 1,737,184; Nov. 26.
- Carburetor. J. S. Broncato. 1,714,156; May 21.
- Carburetor. H. F. Bryan. 1,741,401; Dec. 31.
- Carburetor. W. C. Carter. 1,740,282; Dec. 17.
- Carburetor. W. C. Carter. 1,740,453; Dec. 24.
- Carburetor. A. Chanard. 1,700,921; Feb. 5.
- Carburetor. M. G. Chandler. 1,712,293; May 7.
- Carburetor. W. O. Chase. 1,716,619; June 11.
- Carburetor. N. A. Christensen. 1,701,141; Feb. 5.
- Carburetor. J. W. Corser. 1,722,087; July 23.
- Carburetor. A. A. T. Creser. 1,716,576; June 11.
- Carburetor. R. L. Dennison. 1,730,410; Oct. 8.
- Carburetor. D. J. Dickerson. 1,733,367; Oct. 29.
- Carburetor. T. B. Eiker. 1,718,735; June 25.
- Carburetor. C. V. Elliott. 1,707,350; Apr. 2.
- Carburetor. O. H. Ensign. 1,721,618; July 23.
- Carburetor. E. Feroldi. 1,737,496; Nov. 26.
- Carburetor. F. F. Flint. 1,710,696; Apr. 30.
- Carburetor. V. R. Gage. 1,722,462; July 30.
- Carburetor. A. Girin. 1,735,499; Nov. 12.
- Carburetor. J. Goddyn. 1,715,453; June 4.
- Carburetor. G. Griffon. 1,702,433; Feb. 19.
- Carburetor. W. L. Guy. 1,733,122; Oct. 29.
- Carburetor. P. Gwisdalla. 1,728,730; Sept. 17.
- Carburetor. O. W. Haling. 1,733,730; Oct. 29.
- Carburetor. L. Harel. 1,729,382; Sept. 24.
- Carburetor. G. Heinisch. 1,697,816; Jan. 1.
- Carburetor. H. Hutchison. 1,731,135; Oct. 8.
- Carbonator. H. J. Irwin. 1,709,579; Apr. 16.
- Carburetor. E. A. Jones. 1,735,202; Nov. 12.
- Carburetor. J. Juhasz. 1,728,415; Sept. 17.
- Carburetor. J. Juhasz. 1,733,348; Oct. 29.
- Carburetor. J. M. King. 1,706,492; Mar. 26.
- Carburetor. J. J. Langdon. 1,718,652; June 25.
- Carburetor. W. E. Leibing. 1,733,668; Oct. 29.
- Carburetor. M. B. Lloyd. 1,707,229; Apr. 2.
- Carburetor. F. E. Lonas and H. E. Thompson. 1,713,705; May 21.
- Carburetor. E. J. Manning. 1,726,358; Aug. 27.
- Carburetor. H. E. Medley. 1,722,934; July 30.
- Carburetor. A. P. Plaut. 1,732,531; Oct. 22.
- Carburetor. L. Podszus. 1,709,151; Apr. 16.
- Carburetor. F. Purdy and F. Bain. 1,712,460; May 7.
- Carburetor. W. B. Ralston. 1,698,856; Jan. 15.
- Carburetor. A. G. Redmond. 1,717,625; June 18.
- Carburetor. J. V. Rice, jr. 1,731,938; Oct. 15.
- Carburetor. G. F. Ritter. 1,737,095; Nov. 26.
- Carburetor. E. Schimanek. 1,714,441; May 21.
- Carburetor. G. B. Schley. 1,711,748; May 7.
- Carburetor. O. Sills. 1,727,568; Sept. 10.
- Carburetor. M. S. Skaer. 1,725,218; Aug. 20.
- Carburetor. E. R. Slagle. 1,703,789; Feb. 26.
- Carburetor. F. F. Starr. 1,733,282; Oct. 29.
- Carburetor. W. E. Strong. 1,711,292; Apr. 30.
- Carburetor. G. Tacconi. 1,716,988; June 11.
- Carburetor. F. V. A. Thomas. 1,739,563; Dec. 17.
- Carburetor. P. S. Tice. 1,725,227; Aug. 20.
- Carburetor. R. Titman. 1,700,863; Feb. 5.
- Carburetor. S. M. Udale. 1,726,324; Aug. 27.
- Carburetor. W. H. Weber. 1,718,769; June 25.
- Carburetor. J. C. Whiteman. 1,703,914; Mar. 5.
- Carburetor. E. J. Yeo. 1,701,600; Feb. 12.
- Carburetor and governor, Combined. W. Knudsen. 1,709,727; Apr. 16.
- Carburetor, Automatic dry-gas. E. Rector. 1,726,455; Aug. 27.
- Carburetor combination, Burner. J. Good. 1,711,938; May 7.
- Carburetor construction. E. Frisbie. 1,719,837; July 9.
- Carburetor control and manifold air inlet for automobile engines, Automatic. T. J. Strickler. 1,700,816; Feb. 5.
- Carburetor, Electrically-controlled. H. S. Pardee. 1,709,628; Apr. 16.
- Carburetor, Electrothermal starting. C. L. Bristol. 1,730,115; Oct. 1.
- Carburetor for explosion engines. G. F. Brut. 1,731,123; Oct. 8.
- Carburetor for internal-combustion engines. T. Antoine. 1,741,447; Dec. 31.
- Carburetor for internal-combustion engines. H. Beck. 1,740,917; Dec. 24.
- Carburetor for internal-combustion engines. L. Jensen. 1,739,396; Dec. 10.
- Carburetor for internal-combustion engines. F. Monier. 1,720,916; July 16.
- Carburetor for internal-combustion engines. O. Svensson. 1,732,666; Oct. 22.
- Carburetor for internal-combustion engines. I. R. Zaracina. 1,699,647; Jan. 22.
- Carburetor for internal-combustion engines, Starting. R. F. Bracke. 1,699,324; Jan. 15.
- Carburetor heater. V. U. Coon. 1,709,609; Apr. 16.
- Carburetor, Multiple. S. A. Wilson. 1,736,239; Nov. 19.
- Carburetor, Self-primer vacuum-feed. H. Green. 1,707,962; Apr. 2.
- Carburetors, Choke control for. S. G. Garrett. 1,732,969; Oct. 22.
- Carburetors, Heating. A. Boulade. 1,740,221; Dec. 17.
- Carburetors, Safety sump attachment for. M. J. Aldrich, D. A. Seitz, and K. E. Gabbert. 1,735,712; Nov. 12.
- Carburizing apparatus. R. Kaier. 1,733,490; Oct. 29.
- Carburizing, Apparatus for. P. Chambers. 1,709,247; Apr. 16.
- Carburizing iron and steel. R. G. Guthrie and O. J. Wozasek. 1,706,356; Mar. 19.
- Carburizing material. G. W. Pressell. 1,741,336; Dec. 31.
- Carcasses, Apparatus for halving. G. F. Feister. 1,699,695; Jan. 22.
- Card-accounting systems or the like, Selecting device for. L. A. Watters and S. F. Lloyd. 1,731,281; Oct. 15.
- Card and device, Novelty. M. W. Willmore. 1,710,793; Apr. 30.
- Card and other article of merchandise, Combination gift. H. F. Goldsmith. 1,714,774; May 28.
- Card and stencil holder for typewriting machines. P. A. Gollnick and J. J. Toolan. 1,720,955; July 16.
- Card and the like for classificatory system. A. Perkins. 1,739,087; Dec. 10.
- Card carrier. G. H. Dawson. 1,741,150; Dec. 31.
- Card carrier for visible card indexes. L. Lombardini. 1,707,917; Apr. 2.
- Cardcase. L. N. Duncan. 1,723,685; Aug. 6.
- Cardcase. B. Keen. 1,710,828; Apr. 30.
- Cardcase. R. J. Opfergelt. 1,697,366; Jan. 1.
- Cardcase. W. H. Ostrander. 1,701,709; Feb. 12.
- Cardcase and shuffling device. C. H. Franks and J. K. Hunter. 1,709,469; Apr. 16.
- Card, Color. C. C. Hertel. 1,733,539; Oct. 29.
- Card-cutting machine, Automatic. L. E. La Bombard and M. H. Sidebotham. 1,734,335; Nov. 5.
- Card-decking machine. W. H. Gibson. 1,739,300; Dec. 10.
- Card-delivery case. W. H. Ostrander and G. E. White. 1,734,644; Nov. 5.
- Card-delivery mechanism. A. Thomas. 1,717,858; June 18.
- Card-display machine. W. A. Garlick. 1,741,228; Dec. 31.
- Card-display stand. T. Huston. 1,715,237; May 28.
- Card-feeding attachment for Jacquard weaving machines. F. Petig. 1,731,503; Oct. 15.
- Card-feeding mechanism, Visible. J. Last. 1,725,400; Aug. 20.
- Card, Folding display. H. Ziemmerman. 1,698,664; Jan. 8.
- Card for backings for artificial teeth, Shipping. D. E. Evans. 1,734,032; Nov. 5.
- Card holder. E. Dobrowsky. 1,700,786; Feb. 5.
- Card-holding device. F. Weindel, Jr. 1,731,692; Oct. 15.
- Card, Index. C. H. Cobb. 1,710,864; Apr. 30.
- Card, Index. G. H. Dawson. 1,708,832; Apr. 9.
- Card, Index guide. G. H. Dawson. 1,705,753; Mar. 19.
- Card, Index or file. W. H. Day. 1,701,101; Feb. 5.
- Card mount or package. W. P. Mills. 1,697,878; Jan. 8.
- Card or similar article, Post. J. A. Falvey. Des. 79,288; Aug. 27.



- Card, Playing. M. T. Hartnacke. Des. 78,159; Apr. 2.  
 Card, Playing. A. B. Hurley. 1,715,759; June 4.  
 Card, Playing. G. B. Reed. 1,704,017; Mar. 5.  
 Card, Record. G. E. Hawes. 1,723,648; Aug. 6.  
 Card, Reference. G. I. Lehman and J. Pensak. 1,711,895; May 7.  
 Card, Sample. B. F. Stenz. 1,741,080; Dec. 24.  
 Card, Score. R. W. Upp. 1,716,016; June 4.  
 Card-selecting and raising device. F. J. Tillman. 1,722,601; July 30.  
 Card-selecting mechanism. P. M. Rainey. 1,704,259; Mar. 5.  
 Card-selector mechanism. F. F. C. Rippon. 1,739,651; Dec. 17.  
 Card-separating mechanism. J. J. Murray. 1,741,067; Dec. 24.  
 Card-stopping device. P. Gullung. 1,727,285; Sept. 3.  
 Card system. J. Schade. 1,703,119; Feb. 26.  
 Card table. E. Wuenn. Des. 80,208; Dec. 24.  
 Carding engine, Revolving-flat. A. E. Oxley. 1,703,358; Carding machine. G. Clarisse. 1,717,189; June 11.  
 Carding machine. L. W. Penney and H. E. Child. 1,726,919; Sept. 3.  
 Carding machines, Doffing roll for. E. L. Cady. 1,727,393; Sept. 10.  
 Carding picker. C. Schofield. 1,737,435; Nov. 26.  
 Carding surface. J. Platt. 1,709,038; Apr. 16.  
 Cardio-active substance of Bulbous scilla, Extracting the. W. Kreis. 1,725,652; Aug. 20.  
 Cards, Deck of. C. E. Albert. 1,727,800; Sept. 10.  
 Cards, Device for joining. W. Y. Allen. 1,740,215; Dec. 17.  
 Cards, Playing. L. A. Bedard. 1,704,457; Mar. 5.  
 Cards, Playing. J. E. Simmons. 1,737,478; Nov. 26.  
 Cards, Playing. L. E. Smedley. 1,703,754; Feb. 26.  
 Cards, Set of playing. O. Kubatzky. Des. 77,419-21; Jan. 8.  
 Cards, Set of playing. O. Kubatzky. Des. 77,970; Mar. 12.  
 Cargo hook, Safety. T. E. Powers and W. J. Frain. 1,702,946; Feb. 19.  
 Carillon mechanism. C. F. Johnston. 1,740,355; Dec. 17.  
 Carline reinforcement and load-lifting arrangement. C. D. Bonsall. 1,707,216; Apr. 2.  
 Carpet beater. H. F. Teetsell. 1,722,162; July 23.  
 Carpet cushioner, Stair-. A. J. Murphy. 1,721,187; July 16.  
 Carpet-sweeper case. F. W. Pullen. 1,739,521; Dec. 17.  
 Carriage and crib, Convertible. R. H. Chatfield. 1,727,335; Sept. 10.  
 Carriage, Baby. G. Compton. 1,706,915; Mar. 26.  
 Carriage, Baby. S. P. Crosswell. 1,714,902; May 28.  
 Carriage, Baby. J. B. Pinheiro. 1,703,208; Feb. 26.  
 Carriage, Baby. H. F. Shaw. Des. 78,588; May 21.  
 Carriage, Baby. E. Specter. 1,729,055; Sept. 24.  
 Carriage body, Baby-. F. M. and W. Kerle. Des. 78,630; May 28.  
 Carriage body, Baby-. R. Stinson. Des. 77,627-8; Jan. 29.  
 Carriage-body system for automobiles and other vehicles. H. A. Darrin. 1,721,875; July 23.  
 Carriage, Child's. D. R. Collier and W. Hoglund. 1,721,178; July 16.  
 Carriage-cover clamp. A. Zadek. 1,722,551; July 30.  
 Carriage, Double baby. R. H. Chatfield. 1,707,186; Mar. 26.  
 Carriage for anti-aircraft guns. Y. P. G. Le Prieur. 1,700,902; Feb. 5.  
 Carriage for automatic firearms. H. Schuler and A. Krum. 1,722,397; July 30.  
 Carriage, High-line. W. R. Whitlock. 1,725,325; Aug. 20.  
 Carriage hood and making the same. O. W. Siebert. 1,707,688; Apr. 2.  
 Carriage hood, Baby-. H. F. Shaw. Des. 77,626; Jan. 29.  
 Carriage hood, Collapsible. C. W. A. Hannebohn. 1,717,774; June 18.  
 Carriage or go-cart, Folding baby. A. E. Taylor. 1,732,112; Oct. 15.  
 Carriage or similar article, Child's. B. C. Haupt. Des. 79,294; Aug. 27.  
 Carriage, Rocking baby. L. Davis. 1,739,785; Dec. 17.  
 Carriage top, Baby-. J. W. Jackson. Des. 77,899; Mar. 5.  
 Carriage work, Convertible. C. Hoch. 1,710,874; Apr. 30.  
 Carrier-See-  
 Article carrier.  
 Baggage carrier.  
 Bath-tub carrier.  
 Battery carrier.  
 Blade carrier.  
 Bottle carrier.  
 Braiding-machine carrier.  
 Card carrier.  
 Clamp carrier.  
 Clay carrier.  
 Cosmetic carrier.  
 Dispatch carrier.  
 Ditcher carrier.  
 Egg carrier.  
 Electrode carrier.  
 Film carrier.  
 Fire carrier.  
 Hoisting and lowering carrier.  
 Ice carrier.  
 Luggage carrier.  
 Mold carrier.  
 Paper-roll carrier.  
 Paper rope carrier.  
 Parcel or luggage carrier.  
 Pipe carrier.  
 Poultry carrier.  
 Receptacle carrier.  
 Rod-line carrier.  
 Suspended carrier.  
 Tire carrier.  
 Tool carrier.  
 Torpedo carrier.  
 Trace carrier.  
 Trunk and luggage carrier.  
 Wood carrier.  
 Carrier-amplitude-control system. O. B. Blackwell and M. E. Strieby. 1,719,041; July 2.  
 Carrier and brush support, Paint-bucket. G. A. Harris. 1,698,403; Jan. 8.  
 Carrier and dropping board for poultry. M. E. Fenner. 1,719,974; July 9.  
 Carrier and grip, Combination. S. A. Miller. 1,731,078; Oct. 8.  
 Carrier block for lumber carriers. A. Garmo. 1,697,273; Jan. 1.  
 Carrier block for lumber carriers. A. Garmo. 1,697,461; Jan. 1.  
 Carrier-current system superposed on side circuit of phantom system. J. T. O'Leary. 1,721,572; July 23.  
 Carrier for automobiles, Baby. J. Merrill. 1,698,601; Jan. 8.  
 Carrier for automobiles, Luggage. F. A. Holmes. 1,733,347; Oct. 29.  
 Carrier for conveyers. M. A. Kendall. 1,733,541; Oct. 29.  
 Carrier for pneumatic-dispatch-tube systems. J. T. Needham. 1,732,242; Oct. 22.  
 Carrier for pneumatic-tube systems. E. Weigele. 1,712,536; May 14.  
 Carrier for potted plants. S. K. Caras. 1,708,752; Apr. 9.  
 Carrier for running boards. E. R. Walker and D. B. Henley. 1,737,901; Dec. 3.  
 Carrier for shell fishhooks. W. L. Knettles. 1,737,376; Nov. 26.  
 Carrier for spare wheels. J. H. Hunt. 1,724,655; Aug. 13.  
 Carrier for sugar mills, Intermediate. O. Franke. 1,698,088; Jan. 8.  
 Carrier harness. J. T. Farmer, jr. 1,727,873; Sept. 10.  
 Carrying handle for golf bags. B. Wengard. 1,727,578; Sept. 10.  
 Carrier or bag, Invalid. W. H. Blake. 1,711,167; Apr. 30.  
 Carrier or similar article, Soda-water. S. M. Evans. Des. 77,948; Mar. 12.  
 Carrier-signaling system. E. I. Green. 1,724,925; Aug. 20.  
 Carrier suppression modulation. R. K. Potter. 1,699,570; Jan. 22.  
 Carrier system, Frequency-equalization. E. I. Green. 1,735,044; Nov. 12.  
 Carrier with locking device, Tire. C. S. Watkins. 1,709,641; Apr. 16.  
 Carrotting animal fibers. V. Böhm. 1,719,043; July 2.  
 Carrotting animal hair and wool. E. Böhm. 1,710,565; Apr. 23.  
 Carrying-case lock, Typewriter-. W. A. Dobson. 1,700,254; Jan. 29.  
 Carrying device. S. Vahouny. 1,740,211; Dec. 17.  
 Cars and the like, Hold-down apparatus for freight. G. C. Fedderman. 1,739,893; Dec. 17.  
 Cars, Attachment for railway mail and express. P. H. Knoll. 1,727,547; Sept. 10.  
 Cars, Automobile securing means for freight. R. R. Mauk and H. A. Mills. 1,733,269; Oct. 29.  
 Cars, Welded underframe for railway. E. Kallsch. 1,723,176; Aug. 6.  
 Cart, C. H. Hix, jr., and H. W. Sykes. 1,716,636; June 11.  
 Cart, Off-bearing. O. Tuerck. 1,728,519; Sept. 17.  
 Cart or similar article, Refreshment. C. H. Baker, jr. Des. 79,495; Oct. 1.  
 Cart, Vending. F. E. Coffey. 1,727,395; Sept. 10.  
 Carton. G. H. Bent. 1,735,915; Nov. 19.  
 Carton. M. Cleveland. 1,698,908; Jan. 15.  
 Carton. R. H. Fitz Gerald. 1,734,424; Nov. 5.  
 Carton. G. R. Grigg. 1,704,739; Mar. 12.  
 Carton. W. B. MacMillan. Des. 79,888; Nov. 12.  
 Carton. W. A. Morris. 1,704,055; Mar. 5.  
 Carton. W. A. Morris. 1,715,096; May 28.  
 Carton. W. H. Richman. 1,725,372; Aug. 20.  
 Carton. J. S. Schweich. 1,697,664; Jan. 1.  
 Carton. B. S. Scotland. 1,737,950; Dec. 3.  
 Carton and its blank. N. O. Johnson. 1,722,422; July 30.  
 Carton and means for opening the same. A. C. Schroeder. 1,724,224; Aug. 13.  
 Carton and method of testing contained articles, Sealed. E. O. Tinsley. 1,713,631; May 21.  
 Carton-blank-feeding mechanism. W. W. McCain. 1,716,380; June 11.  
 Carton-closing device. D. W. Ripley. 1,699,809; Jan. 22.  
 Carton construction. R. W. Phillips. 1,733,275; Oct. 29.  
 Carton, Cushion. J. M. Andrews. 1,701,059; Feb. 5.  
 Carton, Cushioned. J. E. Walsh. 1,736,756; Nov. 19.  
 Carton, Cushioned egg. J. E. Walsh. 1,736,755; Nov. 19.  
 Carton, Dispensing. C. O. Groner. 1,714,363; May 21.  
 Carton, Display. J. J. Hess. 1,735,682; Nov. 12.  
 Carton, Display. R. H. Rice. 1,714,730; May 28.  
 Carton, Display and shipping. E. C. Floto. 1,732,436; Oct. 22.  
 Carton, Egg. E. E. Hale. 1,733,663; Oct. 29.  
 Carton expander. C. A. Couch. 1,722,276; July 30.  
 Carton feeding and setting-up mechanism. R. H. Plass. 1,727,729; Sept. 10.  
 Carton filler, Ice-cream-. B. L. Huntley. 1,719,329; July 2.  
 Carton-filling machine. C. L. Bond. 1,729,991; Oct. 1.  
 Carton-filling mechanism. W. S. Weber. 1,714,534; May 28.  
 Carton, Folding. A. O. Long. 1,741,196; Dec. 31.  
 Carton for display cards. W. E. Bowersock. 1,715,533; June 4.



- Carton for holding vacuum tubes and the like. S. J. Leo. 1,710,543; Apr. 23.
- Carton-forming machine. S. R. Howard. 1,702,651; Feb. 19.
- Carton, Garment. B. H. Lengsfeld. Re17,177; Jan. 1.
- Carton opener. H. S. Springer. 1,705,882; Mar. 19.
- Carton or container. W. L. Rodman. 1,715,349; June 4.
- Carton, Packing and display. R. R. Richardson. 1,707,771; Apr. 2.
- Carton, Pop-corn. A. C. Haberman. 1,707,853; Apr. 2.
- Carton, Rolled-material-dispensing. E. A. Meyer. 1,717,613; June 18.
- Carton sealer. H. J. Hagist. 1,735,681; Nov. 12.
- Carton, Shoe. C. N. Cahill. 1,700,432; Jan. 29.
- Cartons and the like, Automatic closing device for. L. A. Wilson. 1,735,704; Nov. 12.
- Cartons, Apparatus for setting up. E. L. Smith and A. E. Phelon. 1,739,619; Dec. 17.
- Cartons, Closing lined. H. L. Evans. 1,733,588; Oct. 29.
- Cartridge. R. J. Alden. 1,741,900-1; Dec. 31.
- Cartridge, Blasting. J. H. Crawford, A. W. Helmholtz, and D. Ferrell. Re17,471; Oct. 29.
- Cartridge, Blasting. H. S. Hart. 1,705,248; Mar. 12.
- Cartridge, Blasting. A. W. Helmholtz and D. Ferrell. 1,723,351; Aug. 6.
- Cartridge, Blasting. E. Ormsby. 1,738,920; Dec. 10.
- Cartridge clip. J. D. Pedersen. 1,732,949; Oct. 22.
- Cartridge, Explosive. W. O. Snelling and G. A. Rupp. 1,788,402; Dec. 3.
- Cartridge for fire-extinguishing apparatus and the like, High-pressure. G. Schworetzky. 1,723,530; Aug. 6.
- Cartridge for use in medicine-applying means. E. C. Haas. 1,736,078; Nov. 19.
- Cartridge, Medicament-dispensing. P. G. and H. E. O. Heineman. 1,737,844; Dec. 3.
- Cartridge, Thermostatic. J. H. Sheats. 1,736,984; Nov. 26.
- Carving machine. J. Galbraith. 1,721,015; July 16.
- Carving-machine bit. D. B. Salstrom. 1,717,736; June 18.
- Carving machine, Wood-. D. B. Salstrom. 1,710,899; Apr. 30.
- Case: See—
- Bottle case. Jewelry case.
  - Bracelet vanity case. Key case.
  - Camera case. Luggage case.
  - Camper's outfit case. Novelty case.
  - Cardcase. Packing case.
  - Card-delivery case. Pass case.
  - Carpet-sweeper case. Pencil case.
  - Cigarette and match case. Photograph case.
  - Cigarette and vanity case. Pocket case.
  - Cigarette case. Radiotube case.
  - Collapsible case. Refrigerated case.
  - Comb and mirror case. Sample case.
  - Containing and dispensing case. Sewing-machine case.
  - Out-film case. Shipping case.
  - Dispensing case. Show case.
  - Display case. Soap case.
  - Egg case. Spectacle case.
  - File case. Thermometer case.
  - Filing case. Ticket case.
  - First-aid case. Toilet or vanity case.
  - Fly and tackle case. Vanity and cigarette case.
  - Folding case. Vanity case.
  - Gas-valve case. Vending case.
  - Hook and fly case. Wardrobe case.
- Case. K. G. Anderson. 1,729,432; Sept. 24.
- Case. J. M. Kaye. 1,728,614; Sept. 17.
- Case. A. J. Pratt. 1,722,592; July 30.
- Case. M. J. Tracy and J. H. Kintzele. 1,734,311; Nov. 5.
- Case and ash receptacle, Combined cigarette. H. A. Deeks. 1,716,577; June 11.
- Case and display rack, Combined map. H. E. Kincheloe. 1,705,190; Mar. 12.
- Case and lighter, Combination cigarette. J. H. Hammond, jr. 1,729,108; Sept. 24.
- Case and lighter, Combined cigarette. P. A. Udall. 1,709,502; Apr. 16.
- Case for books and book markers, Protective. L. S. and S. L. Harvard. 1,734,376; Nov. 5.
- Case for cigarette holders. E. E. Brosius. 1,728,473-4; Sept. 17.
- Case for flatirons, Supporting. H. Langiaux. 1,707,487; Apr. 2.
- Case for gas masks and canisters. M. Yablick. 1,699,937; Jan. 22.
- Case for measuring tapes and the like. R. J. O. Simpson. 1,698,566; Jan. 8.
- Case for saddles, Shipping and display. M. H. Hellman. 1,741,771; Dec. 31.
- Case for tape measures. E. J. Witchger. 1,713,807; May 21.
- Case for tape measures. E. J. Witchger. 1,715,156; May 28.
- Case for use in connection with self-lighting cigarettes, Cigarette. J. Parsons. 1,705,309; Mar. 12.
- Case hardening. A. B. Kinzel. 1,736,920; Nov. 26.
- Case-making machines, Cloth feed for. E. W. Clark and C. Schramm. 1,701,257; Feb. 5.
- Case or bag, Brief. T. W. Johnson. 1,699,971; Jan. 22.
- Case or the like, Combination smoking and vanity. W. Schnell. Des. 79,857; Nov. 5.
- Case or the like, Smoking. W. Schnell. Des. 79,856; Nov. 5.
- Case-shift mechanism. P. Käppler. 1,718,788; June 25.
- Case with clip. C. V. Kuester. 1,713,760; May 21.
- Casing, Air-pump. A. J. Michelin. Des. 77,851; Feb. 26.
- Casing and frame for a washing machine, Combined. A. W. Altorfer. Des. 79,004; July 23.
- Casing and handle socket for a floor-treating machine, Combined. G. I. Johnson. Des. 77,963; Mar. 12.
- Casing and packing head, Oil-well combination. L. J. Mildren. 1,728,432; Sept. 17.
- Casing and producing the same, Sausage. B. J. and B. J. Mumm. 1,699,076; Jan. 15.
- Casing clamp. C. A. Butler. 1,715,189; May 28.
- Casing, Clock. W. O. Gould. Des. 79,963; Nov. 26.
- Casing cutter, Inside-. E. Ventresca. 1,739,932; Dec. 17.
- Casing, Driving-chain. H. Klauke. 1,722,581; July 30.
- Casing, Engine. A. E. L. Chorlton. 1,720,625; July 9.
- Casing, Fan. G. R. Goldthwaite. 1,707,719; Apr. 2.
- Casing for a combination home motion-picture machine and phonograph. F. von Madaler and A. De Madaler. Des. 78,071; Mar. 19.
- Casing for a combined clothes washing and drying machine. L. B. Green. Des. 78,748; June 18.
- Casing for a combined dirigible aeroplane. C. Orsett. Des. 78,838; June 25.
- Casing for a direction-indicating device. J. C. and R. G. Sigler. Des. 79,107; July 30.
- Casing for a dishwasher. H. F. Voshardt. Des. 79,447; Sept. 17.
- Casing for a floor-polishing brush and handle therefor, Combined. W. L. McGee. Des. 77,492; Jan. 15.
- Casing for a hair drier. J. E. Kelley and B. F. Jancke. Des. 78,978; July 16.
- Casing for a liquid-dispensing apparatus. C. M. Cordley. Des. 79,351; Sept. 10.
- Casing for a lubricant dispenser. C. W. Mensing. Des. 79,893; Nov. 12.
- Casing for a paper-strip-feeding machine. R. R. Shay. Des. 77,713; Feb. 12.
- Casing for a ribbon-rewinding machine. E. B. Somers. Des. 77,863; Feb. 26.
- Casing for a shoe-brushing machine. J. M. Lewis. Des. 78,033; Mar. 19.
- Casing for a tape sealing machine. W. A. Uttz, sr. Des. 80,151; Dec. 17.
- Casing for air-treating mechanism. C. B. Lawrence and E. F. Martinet. Des. 79,259; Aug. 27.
- Casing for an air purifier. A. Longoria. Des. 80,135; Dec. 17.
- Casing for an electric drill. J. J. Holloway. Des. 79,370; Sept. 10.
- Casing for an electric hammer or similar article. A. G. Decker. Des. 77,676; Feb. 12.
- Casing for an electric hammer or similar article. A. G. Decker. Des. 77,937; Mar. 12.
- Casing for an exercising machine. N. E. Goodrich. Des. 78,705; June 11.
- Casing for an exercising machine. C. G. Gross. Des. 78,389; Apr. 30.
- Casing for an ice-cream freezer. E. C. Styberg. Des. 79,949; Nov. 19.
- Casing for an ice-shaving machine. A. O. Goldstein. Des. 80,078; Dec. 10.
- Casing for coal-burning stokers. T. H. Banfield. Des. 80,159; Dec. 24.
- Casing for dispensing apparatus. H. M. Harrison. Des. 78,887; July 2.
- Casing for drink-dispensing machine. M. Harrison. Des. 77,830; Feb. 26.
- Casing for drink-dispensing machine. H. M. Harrison. Des. 79,260; Sept. 10.
- Casing for electric fan motors. G. T. Fielding. Des. 77,680; Feb. 12.
- Casing for electric-lamp sockets. A. C. Recker. 1,701,215; Feb. 5.
- Casing for electric meters. R. Mercier. 1,706,537; Mar. 26.
- Casing for guard cages. E. A. Baker. Des. 79,692; Oct. 29.
- Casing for ingot molds, Shrink-head. E. L. Mesler. 1,737,665; Dec. 3.
- Casing for musical instruments, Separable. A. D. Trenor. 1,722,643; July 30.
- Casing for paintbrushes. J. F. Dahlstrom. 1,717,357; June 18.
- Casing for photographic films, Sheet-metal. J. Schulz. 1,727,449; Sept. 10.
- Casing for portable power-driven tool. A. G. Decker. Des. 77,593; Jan. 29.
- Casing for transformers. W. F. Frisch. 1,731,894; Oct. 15.
- Casing for vacuum cleaners. T. O. Adams. 1,727,922; Sept. 10.
- Casing for vehicle signal lamps. J. Wolkow. Des. 79,543; Oct. 1.
- Casing, Gasoline-dispensing. W. A. Courtenay, Jr. Des. 77,744; Feb. 19.
- Casing head. A. G. Heggem. 1,723,934; Aug. 6.
- Casing-head appliance for oil wells. J. D. Lemex. 1,715,846; June 4.
- Casing head for oil wells. D. A. Cant. 1,727,583; Sept. 10.
- Casing head, Packed. C. A. Rasmussen, C. R. Butler, and W. A. Trout. 1,739,802; Dec. 17.
- Casing hook. H. Ceppo. 1,714,076; May 21.
- Casing, Lock. H. E. Soref. Des. 78,846; June 25.



- Casing, Manhole. J. D. Monie. 1,712,510; May 14.  
 Casing, Metallic door or window. C. J. Thye. 1,715,579; June 4.  
 Casing, Object-inclosing. W. Schmid. 1,710,999; Apr. 30.  
 Casing oil for initiating gas lift in oil wells, Displacing dead. F. W. Lake. 1,740,102; Dec. 17.  
 Casing or similar article, Motor-meter. W. J. Manchester. Des. 77,907; Mar. 5.  
 Casing, Pipe-support. M. Rachlin. 1,732,483; Oct. 22.  
 Casing rack, Automobile. J. Sanderson and W. Cocreham. 1,723,526; Aug. 6.  
 Casing ring and elevator, Combination. F. J. Hinderliter. 1,729,940; Oct. 1.  
 Casing, Sausage. F. H. Hoy. 1,741,239; Dec. 31.  
 Casing, Scale. N. A. Hallwood. Des. 78,391; Apr. 30.  
 Casing, Scale. N. A. Hallwood. Des. 79,329; Sept. 3.  
 Casing shoe. O. A. Sewell. 1,727,222; Sept. 3.  
 Casing spider. C. A. Butler. 1,708,051; Apr. 9.  
 Casing spider, Split. R. R. Hall and E. C. Culbertson. 1,709,570; Apr. 16.  
 Casing, Spraying-machine. W. Hermann. Des. 78,205-6; Apr. 9.  
 Casing spreader, Tire-. G. R. Cadwallader. 1,713,511; May 21.  
 Casing, Stove. H. Herrenbruck. 1,741,297; Dec. 31.  
 Casing, Stove. M. R. Lehman. Des. 78,397; Apr. 30.  
 Casing, Stovepipe. W. E. Rupley. 1,731,592; Oct. 15.  
 Casing, Stovepipe. M. R. Shipley. 1,738,021; Dec. 3.  
 Casing, Vacuum-cleaner. J. G. Stamm. Des. 78,904-5; July 2.  
 Casing, Vehicle signal. C. A. Schmidt. Des. 77,501; Jan. 15.  
 Casing, Vehicle Signal. C. A. Schmidt. Des. 78,231; Apr. 9.  
 Casing, Vending-machine. S. T. Allen. Des. 79,318; Sept. 3.  
 Casing, Vending-machine. H. Cooper. Des. 78,267; Apr. 16.  
 Casing, Wall-light. F. B. Hall, jr. Des. 77,408; Jan. 8.  
 Casing, Washing-machine. A. T. Britton. Des. 77,461; Jan. 15.  
 Casing, Washing-machine. S. E. Schroeder. Des. 79,581; Oct. 8.  
 Casings for vehicles, Combined fender and lamp. E. R. Fryer. Des. 80,171; Dec. 24.  
 Casein, Manufacture of. W. H. Sheffield. 1,716,799; June 11.  
 Casement, Sash-retainer. R. W. Jenkins. 1,702,734; Feb. 19.  
 Casement-window adjuster. D. G. Butts. 1,738,282; Dec. 3.  
 Cash-franking machine. W. Friedrichs. 1,741,927; Dec. 31.  
 Cash register. C. H. Arnold. 1,722,990; Aug. 6.  
 Cash register. F. W. F. Berger. 1,730,052; Oct. 1.  
 Cash register. F. W. F. Berger. 1,735,033; Nov. 12.  
 Cash register. S. Brand. 1,702,861; Feb. 19.  
 Cash register. S. Brand. 1,706,726; Mar. 26.  
 Cash register. S. Brand. 1,736,067; Nov. 19.  
 Cash register. W. C. Brown. 1,736,068; Nov. 19.  
 Cash register. T. Carroll. 1,713,741; May 21.  
 Cash register. T. Carroll. 1,725,253; Aug. 20.  
 Cash register. E. J. Damuth and W. S. Roux. 1,725,854; Aug. 27.  
 Cash register. F. L. Fuller. 1,715,910; June 4.  
 Cash register. F. L. Fuller. 1,725,859; Aug. 27.  
 Cash register. F. L. Fuller. 1,729,338; Sept. 24.  
 Cash register. F. L. Fuller and W. H. Robertson. 1,699,060; Jan. 15.  
 Cash register. M. M. Goldberg. 1,705,662; Mar. 19.  
 Cash register. M. M. Goldberg. 1,711,452; Apr. 30.  
 Cash register. C. W. Green. 1,700,699; Jan. 29.  
 Cash register. C. W. Green. 1,707,188; Mar. 26.  
 Cash register. J. J. Klosterman. 1,731,929; Oct. 15.  
 Cash register. W. Kropff. 1,740,944; Dec. 24.  
 Cash register. W. L. Paden. 1,708,189; Apr. 9.  
 Cash register. B. M. Shipley. 1,700,182; Jan. 29.  
 Cash register. B. M. Shipley. 1,703,958; Mar. 5.  
 Cash register. B. M. Shipley. 1,719,383; July 2.  
 Cash register. B. M. Shipley. 1,730,094-5; Oct. 1.  
 Cash register. B. M. Shipley. 1,735,062; Nov. 12.  
 Cash register. B. M. Shipley. 1,740,629; Dec. 24.  
 Cash register. O. J. Sundstrand. 1,726,775; Sept. 3.  
 Cash register. C. A. Thistlethwaite. 1,722,446; July 30.  
 Cash register. E. J. von Pein and A. G. Kramer. 1,707,377; Apr. 2.  
 Cash register and accounting system, Combined. E. W. Hogan. 1,711,056; Apr. 30.  
 Cash register, Pocket. C. C. Williams. 1,730,597; Oct. 8.  
 Cashew-nut-shell oil condensation product and making same. M. T. Harvey. 1,725,797; Aug. 27.  
 Cashew-nut-shell oil, Process, steps, and product of reaction of. M. T. Harvey. 1,725,795; Aug. 27.  
 Cashew-nut-shell oil reaction product and producing same. M. T. Harvey. 1,725,792; Aug. 27.  
 Cashew-shell liquid composition and method of producing, modified. M. T. Harvey. 1,725,796; Aug. 27.  
 Cashew-shell oil and process, Reaction product of. M. T. Harvey. 1,725,794; Aug. 27.  
 Cashier, adding, and listing machine, Mechanical. N. White, W. S. Overlin, and F. A. Bullington. 1,723,263; Aug. 6.  
 Casket. G. Rosenqvist. 1,711,542; May 7.  
 Casket and vault display rack, Combined. L. M. Lohberg. 1,721,026; July 16.  
 Casket, Burial. J. E. Carlson. 1,742,130; Dec. 31.  
 Casket, Burial. P. D. Skahen. 1,705,459; Mar. 12.  
 Casket. T. La Tessa. Des. 80,127; Dec. 17.  
 Casket handle. J. E. Falck. 1,709,713; Apr. 16.  
 Casket handle, Burial-. C. Blesch. Des. 78,874; July 2.  
 Casket headrest. R. C. Feerick. 1,731,528; Oct. 15.  
 Casket lug. G. C. Pawlow. Des. 79,479; Sept. 24.  
 Caskets, Corner piece for burial. C. Blesch. Des. 78,875; July 2.  
 Casks, Making metallic. A. J. Muhlbach. 1,740,196; Dec. 17.  
 Casserole. F. J. Cross. Des. 79,457; Sept. 24.  
 Casserole. M. Finkle. Des. 79,133; Aug. 6.  
 Cassette. C. Goethe. 1,731,004; Oct. 8.  
 Cassiterite, Flotation of. K. S. Handy and R. R. Beard. 1,737,717; Dec. 3.  
 Cast iron, Die casting. C. Meier. 1,731,676; Oct. 15.  
 Cast iron, Manufacture of strong machinable. F. Greiner. 1,726,433; Aug. 27.  
 Caster. C. F. Cousins. 1,711,723; May 7.  
 Caster. T. Dibsdaile. 1,709,972; Apr. 23.  
 Caster. E. T. Harris. 1,720,674; July 16.  
 Caster. W. F. Herold. 1,713,656; May 21.  
 Caster. W. F. Herold. 1,727,976; Sept. 10.  
 Caster. A. Kassler and V. Willoughby. 1,727,716; Sept. 10.  
 Caster, R. S. Kirkpatrick. 1,724,353; Aug. 13.  
 Caster. W. A. Matheson. 1,731,312; Oct. 15.  
 Caster. D. Rizzo. 1,719,083; July 2.  
 Caster. T. Thurlby and A. L. Turill. 1,731,640; Oct. 15.  
 Caster, Ball-bearing. F. Beemer. 1,736,110; Nov. 19.  
 Caster, Furniture. F. L. Simon. 1,730,788; Oct. 8.  
 Caster, Knee. S. Field. 1,737,836; Dec. 3.  
 Caster, slide, or the like, Compensating. W. F. Herold. 1,721,301; July 16.  
 Caster, Sliding. S. D. Wenetsky. 1,704,416; Mar. 5.  
 Caster, Swivel. W. M. Chesnutt. 1,734,363; Nov. 5.  
 Caster wheel. W. M. Chesnutt. 1,734,326; Nov. 5.  
 Caster-wheel brake. A. Guitschula. 1,733,536; Oct. 29.  
 Casters, Rubber tire for. V. E. Harris. 1,716,311; June 4.  
 Casting. J. D. Hay. 1,709,129; Apr. 16.  
 Casting. G. M. Hollenback. 1,731,573; Oct. 15.  
 Casting. C. H. Rich. 1,716,833; June 11.  
 Casting and making the same, Metal. C. E. Reinhardt. 1,699,120; Jan. 15.  
 Casting and trimming machine, Electrically-controlled plate. H. A. W. Wood. 1,726,787; Sept. 3.  
 Casting apparatus. T. F. Baily. 1,727,191; Sept. 3.  
 Casting apparatus. F. S. Kochendorfer. 1,732,236; Oct. 22.  
 Casting apparatus. C. L. Lee and T. C. Van Degrieff. 1,709,317; Apr. 16.  
 Casting apparatus. R. Oettinger. 1,727,518; Sept. 10.  
 Casting apparatus. W. N. Thode. 1,732,246; Oct. 22.  
 Casting apparatus. N. W. D. von Malmberg. 1,734,313; Nov. 5.  
 Casting, Apparatus and process for. T. J. Flack. 1,701,559; Feb. 12.  
 Casting apparatus, Centrifugal. C. Pardun and P. Voetter. 1,708,849; Apr. 9.  
 Casting apparatus for laminated rotors. N. Lester. 1,735,049; Nov. 12.  
 Casting apparatus for molding metal and other materials, Centrifugal. W. A. Harrington. 1,721,115; July 16.  
 Casting articles of precious material. E. Liebert. 1,731,169; Oct. 8.  
 Casting, Centrifugal. W. Gilhausen. 1,733,661; Oct. 29.  
 Casting copper alloys. C. Adey and C. Piel. 1,722,124; July 23.  
 Casting cylindrical bodies. T. Weymerskirch and L. Chavanne. 1,707,152; Mar. 26.  
 Casting gears or the like of manganese steel with soft-iron center. W. H. Nourse. 1,697,470; Jan. 1.  
 Casting having chromium-alloy surface. W. M. Mitchell. 1,724,299; Aug. 13.  
 Casting hollow articles, Process and apparatus for. A. Kadow. 1,725,144; Aug. 20.  
 Casting hollow bodies. H. E. Field. 1,710,534; Apr. 23.  
 Casting hollow ingots, Apparatus for. H. Lemcke. 1,698,308; Jan. 8.  
 Casting ingots, Method and apparatus for. H. V. Anderson. 1,702,886; Feb. 19.  
 Casting link-type insulators. M. F. H. Gouverneur and F. J. Stevens. 1,733,729; Oct. 29.  
 Casting machine. G. W. Bungay. 1,733,576; Oct. 29.  
 Casting machine. W. T. Davis. 1,724,914; Aug. 20.  
 Casting machine. N. H. Denner. 1,737,001; Nov. 26.  
 Casting machine. W. T. Franzen. 1,705,640; Mar. 19.  
 Casting machine. R. H. Jenson. 1,725,954; Aug. 27.  
 Casting machine. J. A. Lentz. 1,698,197; Jan. 8.  
 Casting machine. J. Polak. 1,717,254; June 11.  
 Casting machine. I. D. Travis. 1,700,341; Jan. 29.  
 Casting machine. I. D. Travis. 1,732,448-9; Oct. 22.  
 Casting machine. H. Wetzler. 1,734,816; Nov. 5.  
 Casting machine, Automatic. A. Kadow. 1,717,608; June 18.  
 Casting machine, Automatic. A. R. Willard. 1,720,357; July 9.  
 Casting machine, Centrifugal. R. E. Daniel. 1,701,530; Feb. 12.  
 Casting machine, Centrifugal. G. W. Davis. 1,719,596; July 2.  
 Casting machine, Centrifugal. L. T. Knocke. 1,731,051; Oct. 8.  
 Casting machine, Centrifugal. N. M. Lower, W. H. Steele, and L. P. Morris. 1,699,848; Jan. 22.



- Casting machine, Continuous. J. N. Davis. 1,736,308; Nov. 19.
- Casting machine, Metal. G. E. Edmunds. 1,707,603; Apr. 2.
- Casting machine, Printing plate. C. M. Bremner. 1,722,555; July 30.
- Casting machines, Automatic control for centrifugal. G. C. Pfeffer. 1,733,820; Oct. 29.
- Casting machines, Ejector mechanism for. C. L. Lee and T. C. Van Degrieff. 1,712,961; May 14.
- Casting machines, Mold for line. S. E. Sperry. 1,723,712; Aug. 6.
- Casting magnesium and alloy thereof. J. A. Gann and J. E. Hoy. 1,704,384; Mar. 5.
- Casting metal. A. Kadow. 1,699,592; Jan. 22.
- Casting metal, Apparatus for. J. Züblin. 1,734,786; Nov. 5.
- Casting metal ingots, Apparatus for. A. W. Carroll. 1,723,601; Aug. 6.
- Casting metal in molds, Device for. R. Kolb. 1,698,441; Jan. 8.
- Casting metal products, Apparatus for. A. R. Rowe. 1,702,576; Feb. 19.
- Casting metals, Compound for use in. B. F. Wallace. 1,717,820; June 18.
- Casting method and apparatus. R. B. Dale. 1,698,624; Jan. 8.
- Casting of hollow bodies of metal, Centrifugal. J. C. Bell. 1,736,424; Nov. 19.
- Casting process and apparatus. R. F. Wood. Re17,220; Feb. 19.
- Casting railway crossings, Chill for. W. Brinton. 1,721,688; July 23.
- Casting, Rotary. R. B. Dale. 1,698,623; Jan. 8.
- Casting sash weights. E. and J. M. Eagleston. 1,727,278; Sept. 3.
- Casting spiral corrugated pipe, Apparatus for. D. B. Dimick. 1,732,183; Oct. 15.
- Casting with the aid of gaseous pressure mediums. W. Klepsch. 1,703,739; Feb. 26.
- Castings, Apparatus for cleaning. W. C. Speck and E. Barker. 1,741,960; Dec. 31.
- Castings, Apparatus for cleaning. W. C. Speck, E. Barker, A. E. Whipple, and A. H. Dierker. 1,741,959; Dec. 31.
- Castings, Apparatus for making. J. J. Dimeo. 1,709,249; Apr. 16.
- Castings, Apparatus for making small. P. A. Pitman. 1,723,071; Aug. 6.
- Castings in metal molds, Production of unhardened. H. Doat. 1,699,612; Jan. 22.
- Castings, Insert for. L. H. Caldwell. 1,719,739; July 2.
- Castings, making composite. C. M. Walker. 1,729,848; Oct. 1.
- Castings, Making metal. F. B. Foster. 1,707,117; Mar. 26.
- Castings, Making stone. L. G. Copeman. 1,700,156; Jan. 29.
- Castings, Production of alloy-surface. R. Williams. 1,725,039; Aug. 20.
- Cast-off. W. M. Duane. 1,713,174; May 14.
- Casts of feet, Making. E. Hess. 1,700,844; Feb. 5.
- Catalyst. F. W. Weber. 1,698,009; Jan. 8.
- Catalyst for synthesis of methanol. H. H. Storch. 1,738,971; Dec. 10.
- Catalytic apparatus. A. O. Jaeger. 1,741,309; Dec. 31.
- Catalytic reactions, Carrying on. F. A. Canon and C. E. Andrews. 1,735,951; Nov. 19.
- Catamenial appliance. I. M. P. J. Burill. 1,726,339; Aug. 27.
- Catamenial appliance. V. Guinzburg. 1,734,464; Nov. 5.
- Catamenial appliance. E. E. Harrington. 1,730,818; Oct. 8.
- Catamenial band. H. L. Shaffer. 1,708,904; Apr. 9.
- Catch. H. P. Neptune. 1,729,840; Oct. 1.
- Catch, Bracelet. R. King. 1,722,971; July 30.
- Catch, Cabinet. H. H. Raymond. Des. 79,983; Nov. 26.
- Catch, Door. I. C. Larson. 1,732,940; Oct. 22.
- Catch, Door. S. W. Parsons. 1,707,682; Apr. 2.
- Catch, Double-acting. J. H. and H. W. Niessen. 1,738,387; Dec. 3.
- Catch for brooches, emblems, etc., Safety. L. C. Farrar. 1,699,960; Jan. 22.
- Catch for doors, Push. T. F. Stuart and H. A. Moore. 1,712,236; May 7.
- Catch for pin stems, Safety. G. W. Jenckes. 1,726,704; Sept. 3.
- Catch, Hood. R. H. Davis. 1,711,590; May 7.
- Catch, Hood. R. H. Davis. 1,722,562; July 30.
- Catch, Hood. A. C. Jackson. 1,697,652; Jan. 1.
- Catch, Lift. D. M. Gallagher. 1,707,000; Mar. 26.
- Catch, Lift. J. B. Russ and C. E. Smith. 1,710,650; Apr. 23.
- Catch, Safety. J. Fielding. 1,697,593; Jan. 1.
- Catch, Safety. E. Morehouse. 1,737,382; Nov. 26.
- Catching device for the cages of hoists, lifts, and the like. B. Stein and O. Münzner. 1,707,099; Mar. 26.
- Catchment louvers for cool chambers for preventing the precipitation of moisture on the perishable goods stored therein. J. M. Maxwell. 1,709,730; Apr. 16.
- Catenary bunker, Sectional. F. B. Allen. 1,707,341; Apr. 2.
- Cathend. L. S. Cox and H. A. Delaney. 1,727,750; Sept. 10.
- Cathend and oil reservoir, Combined. F. W. Hild. 1,729,441; Sept. 24.
- Cathode energized by alternating or pulsating currents. B. Rosenbaum. 1,705,683; Mar. 19.
- Cathode for electron-emitting devices. F. S. Armstrong. 1,730,837; Oct. 8.
- Cathode, Incandescent. P. W. Dobben, J. G. W. Mulder, and E. Oosterhuis. 1,718,123; June 18.
- Cathode-ray oscillograph. A. Matthias. 1,736,456; Nov. 19.
- Cathode-ray oscillograph control. E. J. Wade and W. J. Rudge, jr. 1,738,464; Dec. 3.
- Cattle guard. J. H. Holmgreen. 1,704,085; Mar. 5.
- Caulking powder. R. E. Sinram and C. T. Heller. 1,701,799; Feb. 12.
- Cave finder. J. J. Cabot. 1,708,354; Apr. 9.
- Cedar chest. H. Dworkis. Des. 75,454; May 7.
- Cedar lining for clothes closets. W. C. Gray. 1,732,510; Oct. 22.
- Ceiling construction. W. P. King and T. Corbin. 1,715,296; May 28.
- Ceiling construction, Slab. H. E. Marks. 1,739,977; Dec. 17.
- Ceiling elements for concrete-floor construction. W. M. Goldsmith. 1,732,303; Oct. 22.
- Ceiling lighting fixture. W. von Nessen. Des. 79,173; Aug. 6.
- Ceiling mold. R. T. Wales. 1,707,420; Apr. 2.
- Cell and parts thereof, Secondary. J. S. Crossley. 1,733,944; Oct. 29.
- Cellophane bag. M. Weiss. 1,736,181; Nov. 19.
- Cellos or the like. Bow-control device for automatic. B. E. Mills. 1,738,257 Dec. 3.
- Cellular fabric. G. B. Hinton. 1,739,460; Dec. 10.
- Celluloid articles, Forming. V. W. Busch. 1,737,874; Dec. 3.
- Celluloid compound. R. Roland. 1,713,482; May 14.
- Celluloid or celluloidlike materials, Manufacturing sheets, slabs, or molded articles from. G. Leysieffer. 1,716,379; June 11.
- Cellulose-acetate composition. W. Gump. 1,740,854; Dec. 24.
- Cellulose acetate, Preparing acetone-soluble, high-viscosity. W. Gruber. 1,723,614; Aug. 6.
- Cellulose and paper from straw, esparto, reed, and similar raw materials, Producing. E. L. Rinman. 1,716,006; June 4.
- Cellulose and viscose products, Spun. R. G. Campbell. 1,732,831; Oct. 22.
- Cellulose by decomposition of vegetable fibers, Production of. O. C. Strecker. 1,705,424; Mar. 12.
- Cellulose composition for esterification and preparing same. G. A. Richter. 1,700,595; Jan. 29.
- Cellulose condensation product and making same. E. Gebauer-Fuehlneig. 1,734,291; Nov. 5.
- Cellulose derivative and producing same. L. Lillienfeld. 1,722,927; July 30.
- Cellulose derivatives and preparation, Raw material for. G. A. Richter and M. O. Schur. 1,729,629; Oct. 1.
- Cellulose derivatives, Manufacture of. H. Dreyfus. 1,711,111; Apr. 30.
- Cellulose digesters, Apparatus for charging. P. A. Fresk. 1,729,575; Sept. 24.
- Cellulose esters and conversion products therefrom, Manufacture of. C. Ebert and T. Becker. 1,701,229; Feb. 5.
- Cellulose esters containing phthalic groups and making the same, Soluble. R. L. Stinchfield. 1,704,306; Mar. 5.
- Cellulose esters, Increasing the uniformity of. H. L. Gray. 1,711,941; May 7.
- Cellulose esters, Making unsaturated acyl. H. T. Clarke and C. J. Malm. 1,739,210; Dec. 10.
- Cellulose esters, Manufacture of. H. Heimann and A. Bayerl. 1,722,914; July 30.
- Cellulose esters of high uniformity, Making. H. L. Gray. 1,711,940; May 7.
- Cellulose esters, Reducing the viscosity of. B. N. Lougovoy. 1,726,357; Aug. 27.
- Cellulose-ether composition. S. J. Carroll. 1,735,156-8; Nov. 12.
- Cellulose ethers, Making. H. Sessler. 1,704,304; Mar. 5.
- Cellulose ethers or esters, Apparatus for spinning solutions of. M. Klein. 1,716,781; June 11.
- Cellulose fiber for conversion into cellulose derivatives and product of same, Conditioning. G. A. Richter, M. O. Schur, and R. H. Rasch. 1,701,543; Feb. 12.
- Cellulose fiber for the manufacture of cellulose derivatives, Production of high-alpha. G. A. Richter. 1,741,540; Dec. 31.
- Cellulose from highly-lignified plants, Production of. R. Runkel. 1,731,112; Oct. 8.
- Cellulose from the bagasse of sugar cane, Extracting the pure. E. C. H. Valet. Re17,422; Sept. 3.
- Cellulose goods with permanent finish and producing same. G. Heberlein. 1,717,315; June 11.
- Cellulose, Isolating. J. O. Peirce and W. T. Reddish. 1,703,830; Feb. 26.
- Cellulose, Manufacture of. H. Walker. 1,709,824; Apr. 16.
- Cellulose, Manufacture of sheetlike articles and the like from. E. Czapke and R. Weingand. 1,740,226; Dec. 17.
- Cellulose nitrate plastic. G. L. Schwartz. 1,710,078; Apr. 23.
- Cellulose precipitating agent. E. Czapke and R. Weingand. 1,740,227; Dec. 17.
- Cellulose prior to esterification, Treatment of. H. Dreyfus. 1,731,299; Oct. 16.



- Cellulose products, Forming. H. P. Bassett and T. F. Banigan. 1,709,513; Apr. 16.
- Cellulose products, Manufacture of. M. Cusin and P. A. A. Chevalet. 1,722,202; July 23.
- Cellulose pulp, Manufacturing. J. J. de la Roza, sr. 1,721,376; July 16.
- Cellulose pulp, Method of and apparatus for the production of. G. A. Richter. 1,735,015; Nov. 12.
- Cellulose sheets, Making compressed dehydrated. A. W. Morris. 1,739,766; Dec. 17.
- Cellulose solution for spinning artificial silk by the stretch-spinning process, Copper-oxide ammonia-. A. Hartmann. 1,728,565; Sept. 17.
- Cellulose tubing, Method of and apparatus for drying. C. E. Coleman, H. F. Whittaker, and T. E. Sharpe. 1,708,937; Apr. 16.
- Cellulosic and ligneous materials, Digesting. R. A. Marr. 1,717,795; June 18.
- Cellulosic, animal, and other substances against insects, animals, and organisms, Proofing. S. W. Kendall. 1,739,840; Dec. 17.
- Cellulosic briquettes, Process and apparatus for producing. H. L. Glaze and G. C. Humphrey. 1,716,490; June 11.
- Cellulosic material and product obtained therefrom. H. Dreyfus and C. I. Haney. 1,697,907; Jan. 8.
- Cellulosic material for preparation of cellulose derivatives and product of same, Conditioning. G. A. Richter, M. O. Schur, and R. H. Rasch. 1,729,628; Oct. 1.
- Cellulosic material, Production of. C. Leyst. 1,726,078; Aug. 27.
- Cellulosic material, Pulping raw. G. A. Richter. 1,735,013; Nov. 12.
- Cellulosic materials, Improving. L. De Wolf. 1,726,142; Aug. 27.
- Cement. C. P. Baccovich. 1,696,899; Jan. 1.
- Cement. B. W. Tuttle. 1,719,914; July 9.
- Cement-aggregate compound, Preparing bituminous. E. H. Henley. 1,703,999; Mar. 5.
- Cement, Apparatus and process for making. J. E. Velzy and W. T. Groner. 1,714,060; May 21.
- Cement-block tamper. H. E. Dunn. 1,718,338; June 25.
- Cement by fusion, Apparatus for the manufacture of. G. Dumas. 1,728,597; Sept. 17.
- Cement by the wet method in rotary kilns, Manufacture of. T. Rigby. 1,706,748; Mar. 26.
- Cement by the wet process, Apparatus for making. T. Rigby. 1,706,747; Mar. 26.
- Cement composition and producing same, Hydraulic. L. Forsén. 1,712,818; May 14.
- Cement from slag, Manufacture of. J. G. Bergquist. 1,731,189; Oct. 8.
- Cement-grinding mill. P. T. Lindhard. 1,728,495; Sept. 17.
- Cement head. R. W. Lyon and C. White. 1,700,503; Jan. 29.
- Cement, Hydraulic. C. Pontoppidan. 1,722,480; July 30.
- Cement, Industrial manufacture of artificial Portland. J. J. Hendrickx. 1,728,828; Sept. 17.
- Cement, Making fused. B. Bruhn. 1,741,973; Dec. 31.
- Cement, Manufacture of. A. Bauchère and G. Arnou. 1,739,383; Dec. 10.
- Cement, Manufacture of hydraulic. R. De Luce. 1,713,172; May 14.
- Cement, Manufacture of Portland. P. T. Lindhard. 1,728,496; Sept. 17.
- Cement, Manufacturing. T. Rigby. 1,699,451; Jan. 15.
- Cement, Metal. W. R. Chapin. 1,699,346; Jan. 15.
- Cement, Plant for the manufacture of. T. Rigby. 1,706,750; Mar. 26.
- Cement product and making the same, Sorel. H. S. Lukens. 1,724,945; Aug. 20.
- Cement, Production of Portland. H. R. Durbin. 1,700,032-3; Jan. 22.
- Cement-receiving surface on an insulator section, Forming a. W. F. Harvey. 1,731,099; Oct. 8.
- Cement, Waterproof. J. P. Strasser. 1,738,022; Dec. 3.
- Cementing compound, J. K. Burn. 1,719,210; July 2.
- Cementing device, Fastener-. C. W. Steele. 1,720,385; July 9.
- Cementing machine. J. M. Benjamin. 1,710,688; Apr. 30.
- Cementing oil, gas, and water wells. H. M. Greene. 1,734,670; Nov. 5.
- Cementing oil wells, Apparatus for. D. D. Burch. 1,712,948; May 14.
- Cementing shoe soles, Apparatus for. G. W. Murphy. 1,729,179; Sept. 24.
- Cementing the ends of inner tubes in preparation for splicing, Apparatus for. F. H. Tenney. 1,701,457; Feb. 5.
- Cementitious mixtures, Making. W. M. Venable. 1,704,268; Mar. 5.
- Cementitious product and making the same. G. A. Witte. 1,737,904; Dec. 3.
- Center device, Dead. J. H. Towers. 1,722,320; July 30.
- Center finder. A. G. Schwieterman. 1,725,529; Aug. 6.
- Center iron. J. E. sr., C. R., and T. J. McGraw. 1,727,890; Sept. 10.
- Centering and holding device, Work. G. C. Warner. 1,729,906; Oct. 1.
- Centering device, Car-coupler-. A. E. Small. 1,696,979; Jan. 1.
- Centering device for shoe soles. J. A. Parker. 1,736,216; Nov. 19.
- Centering device for wood-turning machines, Work-. C. L. Mattison. 1,706,178; Mar. 19.
- Centering device, Rocker-. H. M. Pfleger. 1,702,269; Feb. 19.
- Centering device, Rocker-. W. M. Sheehan and E. G. Hallquist. 1,702,277; Feb. 19.
- Centering machine, Automatically-operated. J. J. Thacher. 1,735,361; Nov. 12.
- Centers, Manufacturing. E. L. Greer and T. J. Brady. 1,733,594; Oct. 29.
- Central-station apparatus for pneumatic-dispatch systems. E. Weigele. 1,711,511; May 7.
- Centrifugal. L. J. Barrett. 1,735,523; Nov. 12.
- Centrifugal apparatus. H. A. Humphrey. 1,714,370; May 21.
- Centrifugal apparatus. H. List. 1,703,742; Feb. 26.
- Centrifugal apparatus. C. L. Riley. 1,732,110; Oct. 15.
- Centrifugal apparatus. E. Roberts. 1,719,132; July 2.
- Centrifugal apparatus. E. Roberts. 1,721,491; July 16.
- Centrifugal device. O. Stöbe. 1,698,322; Jan. 8.
- Centrifugal drier. A. W. Altorfer. 1,717,646; June 18.
- Centrifugal drier. P. C. Bruckmann. 1,715,351; June 4.
- Centrifugal drier. N. Stramaglia. 1,707,823; Apr. 2.
- Centrifugal extractor. W. J. Asher. 1,729,698; Oct. 1.
- Centrifugal extractors, Control mechanism for. W. P. Beattie. 1,701,743; Feb. 12.
- Centrifugal machine. A. U. Ayres. 1,737,137; Nov. 26.
- Centrifugal machine. W. H. Bath. 1,741,395-8; Dec. 31.
- Centrifugal machine. W. E. Bock. 1,699,581; Jan. 22.
- Centrifugal machine. C. V. Bouillon. 1,717,753; June 18.
- Centrifugal machine. L. D. Jones. 1,711,468; Apr. 30.
- Centrifugal machine. L. D. Jones. 1,733,266; Oct. 29.
- Centrifugal machine. H. J. M. C. Krantz. 1,723,940; Aug. 6.
- Centrifugal machine. W. C. Laughlin. 1,710,316; Apr. 23.
- Centrifugal machine. J. J. Munson. 1,703,404; Feb. 26.
- Centrifugal machine. E. Roberts. 1,734,746; Nov. 5.
- Centrifugal machine, Continuous. T. Langenberg. 1,736,349; Nov. 19.
- Centrifugal machine for casting metal pipes and the like. J. E. Hurst and E. B. Ball. 1,735,969; Nov. 19.
- Centrifugal machine for treating metal articles coated by immersion. H. Hofer. 1,711,389; Apr. 30.
- Centrifugal operating mechanism. M. L. Spahr. 1,720,766; July 16.
- Centrifugal separation, Apparatus for. C. E. Fawkes. 1,700,928; Feb. 5.
- Centrifugal separator. T. A. Bryson. 1,703,094; Feb. 26.
- Centrifugal separator. J. C. Buckbee. 1,724,254; Aug. 13.
- Centrifugal separator. B. C. Carter. 1,714,658; May 28.
- Centrifugal separator. E. S. Eccleston. 1,718,547; June 25.
- Centrifugal separator. W. C. Laughlin. 1,699,471; Jan. 15.
- Centrifugal separator. W. C. Laughlin. 1,710,315; Apr. 23.
- Centrifugal separator. E. B. Mölbach. 1,721,230; July 16.
- Centrifugal separator. H. Nass. 1,738,258; Dec. 3.
- Centrifugal separator. D. Perrier. 1,742,095-6; Dec. 31.
- Centrifugal separator. T. Tohlin. 1,723,495; Aug. 6.
- Centrifugal switch. C. A. Schild. 1,713,148; May 14.
- Centrifugal switch. P. Suter. 1,722,117; July 23.
- Centrifugal switch. A. F. Welch. 1,713,203; May 14.
- Centrifuge. D. S. Paterson and G. B. Petsche. 1,714,985; May 28.
- Centrifuge. W. B. Wescott. 1,737,287; Nov. 26.
- Centrifuge bowl. L. D. Jones and A. U. Ayres. 1,708,543; Apr. 9.
- Centrifuged liquids, Conserving. H. O. Lindgren. 1,705,934; Mar. 19.
- Ceramic. R. B. Sherman. 1,701,313; Feb. 5.
- Ceramic articles, Apparatus for making. T. S. Curtis. 1,703,871; Mar. 5.
- Ceramic furnace, Continuous. J. A. Dedouch. 1,708,083; Apr. 9.
- Ceramic furnace, Continuous. J. A. Dedouch. 1,708,124; Apr. 9.
- Ceramic material and making the same, Light-weight. R. Ericson. 1,702,076; Feb. 12.
- Ceramic material and making the same, Lightweight. R. Ericson. 1,702,076; Feb. 12.
- Ceramic structures, Method and apparatus for forming. J. M. Teaben and W. Taylor. 1,710,277; Apr. 23.
- Ceramic ware, Process of and apparatus for firing. A. S. Watts. 1,724,238; Aug. 13.
- Cereal food and preparing. W. D. and B. A. Smith. 1,705,034; Mar. 12.
- Cerium, Separating. F. Sommer. 1,707,450; Apr. 2.
- Chafe-applying machine. A. R. Krause and H. O. Hutchens. 1,717,710; June 18.
- Chain. C. S. Barrell. 1,727,924; Sept. 10.
- Chain. A. H. Barrowman. 1,741,271; Dec. 31.
- Chain. R. Blaich. 1,702,335; Feb. 19.
- Chain. G. H. Dansereau. 1,700,351; Jan. 29.
- Chain. K. Fassnacht. 1,736,772; Nov. 26.
- Chain. W. Forstner. 1,723,610; Aug. 6.
- Chain. W. Forstner. 1,730,652; Oct. 8.
- Chain. S. A. Johnson. 1,740,894; Dec. 24.
- Chain. P. W. Jones. 1,712,564; May 14.
- Chain. S. L. Lederer. 1,700,293; Jan. 29.
- Chain. F. Müller. 1,709,802; Apr. 16.
- Chain. E. Prestinari. 1,720,235; July 9.
- Chain. F. Renz. 1,712,582; May 14.
- Chain. O. J. Rice. Des. 77,434; Jan. 8.
- Chain and lock, Combination. J. W. Bate. 1,734,153; Nov. 5.



- Chain and wheel drive. G. A. Carlson. 1,725,506; Aug. 20.
- Chain, Antiskid. A. F. Gillet. 1,731,850; Oct. 15.
- Chain, Antiskid. S. I. Peters. 1,739,016; Dec. 10.
- Chain, Antiskid tire. C. Kirkwood. 1,722,526; July 30.
- Chain, Apparatus for making. S. D. Locke and C. Parker. 1,724,847; Aug. 13.
- Chain, Apparatus for making. C. Parker. 1,724,773; Aug. 13.
- Chain attachment. G. McCretton. 1,740,992; Dec. 24.
- Chain, Band. K. C. Augenstein. 1,740,885; Dec. 24.
- Chain, Bracelet. J. Fielding. 1,735,384; Nov. 12.
- Chain, Bracelet. C. A. Whiting. 1,730,105; Oct. 1.
- Chain clip, Cross-. W. F. Chadbourne. 1,704,171; Mar. 5.
- Chain, Concrete. I. E. Jennings. 1,700,533; Jan. 29.
- Chain, Conveyor. A. T. Bodle. 1,737,823; Dec. 3.
- Chain, Conveyor. F. J. Lynch. 1,707,088; Mar. 26.
- Chain, Conveyor. T. S. Meekins. 1,715,094; May 28.
- Chain conveyor. J. B. Webb. 1,721,759; July 23.
- Chain coupling. W. J. Gagnon. 1,720,472; July 9.
- Chain coupling. G. W. Goodridge. 1,724,835; Aug. 13.
- Chain, Drag. J. C. Merwin. 1,720,285; July 9.
- Chain, Drive. C. Breer. 1,704,279; Mar. 5.
- Chain, Drive. E. B. Nichols. 1,720,852; July 16.
- Chain, Drive and power transmitting. W. J. Thuerman. 1,707,204; Mar. 26.
- Chain-equipped structure. O. W. Andersen. 1,721,939; July 23.
- Chain, Fixture. L. Laupot. 1,718,368; June 25.
- Chain, Flexible. T. Allsopp. 1,701,941; Feb. 12.
- Chain, Flexible. G. Brandt. 1,708,466; Apr. 9.
- Chain for automobiles and applying the same. A. L. and G. E. McDermott. 1,697,776; Jan. 1.
- Chain for conveyers. J. B. Webb. 1,702,803; Feb. 19.
- Chain for electrical conductors, Supporting. H. O'lier, jr. 1,702,502; Feb. 19.
- Chain for pressure belts. R. E. Ackley. 1,704,419; Mar. 5.
- Chain for vehicle wheels, Antiskid cross. P. M. Hall. 1,733,193; Oct. 29.
- Chain for vehicle wheels, Rotary antiskid. C. H. Dierksmier. 1,708,755; Apr. 9.
- Chain for wood-pulp grinders. J. E. Burkhardt. 1,712,376; May 7.
- Chain hook, Antiskid-. J. H. Szymanski. 1,708,911; Apr. 9.
- Chain, Key. E. F. Craft. Des. 80,074; Dec. 10.
- Chain link. W. Brockschmidt. 1,734,960; Nov. 12.
- Chain, Link. C. R. Tost. 1,738,407; Dec. 3.
- Chain links, Device for opening and closing. J. A. Wentz. 1,703,802; Feb. 26.
- Chain links with integral attachments, Apparatus and process for making. C. Parker. 1,719,811; July 2.
- Chain lock. A. H. Seebeck. 1,702,418; Feb. 19.
- Chain lock. S. Wise. Des. 77,446; Jan. 8.
- Chain lubricator. N. C. Bremer. 1,717,365; June 18.
- Chain-making machine. W. J. Gagnon. 1,724,796; Aug. 13.
- Chain, Multiple drive. F. L. Morse. 1,727,129; Sept. 3.
- Chain, Multiple-drive. F. L. Morse. 1,734,688; Nov. 5.
- Chain, Nonskid. O. M. Peters. 1,697,821; Jan. 1.
- Chain, Ornamental. K. Fassnacht. 1,728,266; Sept. 17.
- Chain, Process of and apparatus for making. C. Parker. 1,730,236; Oct. 1.
- Chain, Pumping-jack. B. G. Goble. 1,712,730; May 14.
- Chain, Security. M. Kaden. 1,715,295; May 28.
- Chain, Skid. E. Mendenhall. 1,731,077; Oct. 8.
- Chain snap-on clip, Cross-. W. F. Chadbourne. 1,704,172; Mar. 5.
- Chain, Sprocket. C. F. Ball. 1,705,352; Mar. 12.
- Chain, Sprocket. C. G. Renold and A. Renshaw. 1,728,445; Sept. 17.
- Chain-stitch machine, Rotary-shaft. L. Onderdonk. 1,725,294; Aug. 20.
- Chain-stitch seams, Making. W. Brase. 1,699,423; Jan. 15.
- Chain structure. H. C. Kittelson. 1,734,383; Nov. 5.
- Chain tightener. C. W. Lynch. 1,741,785; Dec. 31.
- Chain tightener. S. R. McFadden. 1,709,534; Apr. 16.
- Chain, Tire. F. G. Hodell. 1,740,092; Dec. 17.
- Chain, Track. F. O. Snow, jr. 1,702,223; Feb. 12.
- Chain, Traction. A. F. Gillet. 1,731,851; Oct. 15.
- Chain wrench. H. E. Pfaff. 1,706,411; Mar. 26.
- Chains, Apparatus for mounting tire. Z. W. Davis. 1,721,658; July 23.
- Chains, Attachment for ball. W. J. Gagnon. 1,716,267; June 4.
- Chains evenly tight, Device for keeping motor-cycle driving. B. Festini. 1,700,631; Jan. 29.
- Chains, Grip tensor for antisliding. A. G. Hartung. 1,708,620; Apr. 9.
- Chains, Making transmission. A. Renshaw. 1,722,861; July 30.
- Chair: See—
- Adjustable chair. High chair.
- Arm chair. Invalid chair.
- Barbers' chair. Leg-rest chair.
- Bed chair. Mat chair.
- Brake-beam chair. Mechanical chair.
- Child's chair. Metallic chair.
- Collapsible chair. Nursery chair.
- Dental chair. Rail chair.
- Easy chair. Reclining chair.
- Extensible chair. Rocking chair.
- Foldable chair. Student's chair.
- Folding chair. Theater chair.
- Folding or collapsible chair. Wheel chair.
- Chair. E. L. Aldrich and L. D. Gibson. Des. 77,663-4; Feb. 12.
- Chair. F. H. Anderson. Des. 79,320; Sept. 3.
- Chair. R. C. Bendixen and M. E. Morrow. Des. 79,062; July 30.
- Chair. E. T. Bleecker. Des. 77,876; Mar. 5.
- Chair. J. L. Cable. 1,719,532; July 2.
- Chair. J. M. Childers. 1,737,107; Nov. 26.
- Chair. E. T. Deal and L. F. Scott. Des. 80,170; Dec. 24.
- Chair. F. Debski. Des. 79,283; Aug. 27.
- Chair. R. H. Dyer. Des. 77,756; Feb. 19.
- Chair. C. P. Edwards. Des. 80,076; Dec. 10.
- Chair. E. E. Ekvall. Des. 78,737; June 18.
- Chair. W. S. Ferris. 1,717,020; June 11.
- Chair. W. S. Ferris. 1,723,415; Aug. 6.
- Chair. J. Forst. Des. 79,021; July 23.
- Chair. P. T. Frankl. Des. 78,744; June 18.
- Chair. H. O. Girard. Des. 80,173; Dec. 24.
- Chair. L. E. Gottlob. Des. 78,926; July 9.
- Chair. H. Harris. 1,740,090; Dec. 17.
- Chair. C. W. Jones. Des. 78,931; July 9.
- Chair. M. Kirkpatrick. Des. 79,031; July 23.
- Chair. M. Kirkpatrick. Des. 79,038; July 23.
- Chair. L. H. Morin. 1,711,959; May 7.
- Chair. L. H. Morin. 1,734,144; Nov. 5.
- Chair. W. L. Nevin. Des. 80,085; Dec. 10.
- Chair. T. B. Powers. 1,699,309; Jan. 15.
- Chair. T. B. Powers. 1,728,573; Sept. 17.
- Chair. C. C. Stout. 1,733,919; Oct. 29.
- Chair. C. F. Streit. 1,720,102; July 9.
- Chair. E. P. Wanner. Des. 77,380; Jan. 1.
- Chair. E. D. Weldon. 1,716,871; June 11.
- Chair. B. Wenegrat. 1,704,415; Mar. 5.
- Chair. M. W. Wentworth. Des. 78,683; May 28.
- Chair. A. Wurdack. 1,740,214; Dec. 17.
- Chair. L. Zaday. 1,702,955; Feb. 19.
- Chair and clamp for parts thereof. C. E. Pipp. 1,701,273; Feb. 5.
- Chair and couch. J. Kronheim. 1,739,147; Dec. 10.
- Chair and ladder, Combination. M. N. Johnson. 1,716,639; June 11.
- Chair and other article. H. E. Bartow. 1,722,264; July 30.
- Chair and radio receiving set, Combination. F. J. Renner. 1,700,337; Jan. 29.
- Chair and table, Combined. B. B. Kline. 1,719,270; July 2.
- Chair arms, Upholstering. W. J. Kelly. 1,717,042; June 11.
- Chair attachment. W. B. Harris. 1,726,485; Aug. 27.
- Chair attachment, Barber-. G. A. Gordon. 1,707,120; Mar. 26.
- Chair back. F. Kusterle. 1,720,794; July 16.
- Chair back, Adjustable. E. C. Harter. 1,727,058; Sept. 3.
- Chair back, Adjustable. E. O. Klemm. 1,699,894; Jan. 22.
- Chair base. S. M. Bump. 1,717,142; June 11.
- Chair base. C. Tomlins. 1,721,097; July 16.
- Chair construction. J. D. Bell. 1,718,847; June 25.
- Chair construction. P. Fletcher. 1,721,573; July 23.
- Chair construction. M. P. Katzander. 1,719,704; July 2.
- Chair construction. J. F. Taylor. 1,738,023; Dec. 3.
- Chair construction, Folding-. W. C. Rastetter. 1,729,488; Sept. 24.
- Chair for use in canoes and the like. E. C. Lee. 1,701,684; Feb. 12.
- Chair frame. C. W. Jones. Des. 77,413-14; Jan. 8.
- Chair frame or similar article. C. W. Jones. Des. 78,930; July 9.
- Chair having resiliently mounted seats, Revolving. A. Stoll. 1,725,312; Aug. 20.
- Chair leg. N. N. Brown. Des. 77,351; Jan. 1.
- Chair or similar article. R. C. Bendixen. Des. 79,545; Oct. 8.
- Chair or similar article. W. F. Christiansen. Des. 77,591-2; Jan. 29.
- Chair or similar article. A. P. Derby. Des. 77,816-17; Feb. 26.
- Chair or similar article. W. S. Ferris. Des. 80,025; Dec. 3.
- Chair or similar article. F. Havel. Des. 79,330; Sept. 3.
- Chair or similar article. S. I. Levinson. Des. 79,973; Nov. 26.
- Chair or similar article. A. Mizner. Des. 78,304; Apr. 16.
- Chair or similar seat. H. Mott. 1,698,344; Jan. 8.
- Chair or sofa and table, Combined. A. Jost. 1,726,109; Aug. 27.
- Chair or the like. I. Ročić. Des. 77,982; Mar. 12.
- Chair, receptacle, and dustpan, Combined. W. Chapleau. 1,722,074; July 23.
- Chair seat, Adjustable. G. B. Travis. 1,735,304; Nov. 12.
- Chair, stepladder, and ironing board, Combined. E. A. Eos. 1,719,004; July 2.
- Chair structure. C. J. Travers. 1,699,551; Jan. 22.
- Chair structure, High-. R. M. Elliott. 1,724,569; Aug. 13.
- Chair truck, Invalid. E. A. Willner, sr. 1,700,009; Jan. 22.
- Chairs and operating same, Adjustable back for. F. L. Michel. 1,702,016; Feb. 12.
- Chairs, Back rest for. W. S. Ferris. 1,719,929; July 9.
- Chairs, Foot rest for. W. Grimmick. 1,712,266; May 7.
- Chairs for cello players. J. Franzosa. 1,735,921; Nov. 19.
- Chairs, Nest of. R. T. Tyner. 1,716,746; June 11.
- Chairs, Operating and controlling mechanism for hydraulic barber. L. A. Carter. 1,738,284; Dec. 3.



- Chaise longue. K. T. Brady and R. L. White. 1,738,137; Dec. 3.
- Chamber motor, Expandible. E. G. Gartin. 1,740,685; Dec. 24.
- Chamfering apparatus. J. E. Baines. 1,706,512; Mar. 26.
- Chamfering attachment for chaplet-making machines. E. H. Schane. 1,731,441; Oct. 15.
- Chandelier. H. Aglow. Des. 79,001; July 23.
- Chandelier. H. Aglow. Des. 79,412; Sept. 17.
- Chandelier. H. E. Bohl. Des. 78,610; May 28.
- Chandelier. J. Di Gaudio. Des. 79,510; Oct. 1.
- Chandelier. L. C. Doane and A. B. Megraw. 1,741,408; Dec. 31.
- Chandelier. C. W. Logan. Des. 77,609-10; Jan. 29.
- Chandelier. C. W. Logan. Des. 77,783; Feb. 19.
- Chandelier. G. E. Villaret. Des. 79,864; Nov. 5.
- Chandelier arm. C. W. Logan. Des. 77,615; Jan. 29.
- Chandelier body. E. F. Guth. Des. 77,765; Feb. 19.
- Chandelier, Lighting-fixture. G. E. McFadden. Des. 78,218; Apr. 9.
- Chandelier, Lighting fixture. G. E. McFadden. Des. 79,039; July 23.
- Chandelier, Lighting fixture. G. E. McFadden. Des. 79,041; July 23.
- Chandelier or analogous lighting fixture. G. E. McFadden. Des. 79,731; Oct. 29.
- Chandelier or analogous lighting fixture. G. E. McFadden. Des. 79,733; Oct. 29.
- Chandelier or analogous lighting fixture. G. E. McFadden. Des. 79,735-6; Oct. 29.
- Chandelier or analogous lighting fixture. G. E. McFadden. Des. 79,739; Oct. 29.
- Chandelier or analogous lighting fixture. G. E. McFadden. Des. 79,890; Nov. 12.
- Chandelier or article of analogous nature. M. Einhorn. Des. 77,947; Mar. 12.
- Chandelier or similar article. G. Hoch. Des. 79,654; Oct. 22.
- Chandelier or similar article. G. Hoch. Des. 79,812; Nov. 5.
- Chandelier or similar article. G. Hoch. Des. 79,814; Nov. 5.
- Chandelier or similar articles. H. E. Gleason. Des. 80,029; Dec. 3.
- Chandelier, Power. E. M. Erb. 1,702,228; Feb. 12.
- Changing rolls, Apparatus for. A. R. McArthur. 1,712,575; May 14.
- Channel cutter. E. J. Anderson and E. J. Hinton. 1,721,243; July 16.
- Channel-flap-turning machine. A. J. Langlois and W. H. Mansfield. 1,712,921; May 14.
- Channel for automobile windows and windshields. C. E. McManus. 1,699,490; Jan. 15.
- Channel-forming apparatus for telephone and the like cables. J. A. Kirby. 1,737,314; Nov. 26.
- Channel-forming device. M. Waters. 1,708,988; Apr. 16.
- Channel-rolling mill. A. J. Townsend. 1,736,331; Nov. 19.
- Chaplet. C. G. Raible. 1,712,230; May 7.
- Chaplet. F. L. Spencer and T. Jones. 1,709,497; Apr. 16.
- Charcoal, Manufacturing activated. E. F. Scheller. 1,704,765; Mar. 12.
- Charge chamber, Rotary. J. G. C. Mantle. 1,705,062; Mar. 12.
- Charge-forming apparatus, Combination. G. Kukovac. 1,723,184; Aug. 6.
- Charge-forming device. O. W. Greene. 1,738,823; Dec. 10.
- Charge-forming device, Force-feed. H. H. Cutler. 1,721,209; July 16.
- Charging apparatus. E. F. Rogers. 1,731,909; Oct. 15.
- Charging beverages, Apparatus for. H. B. Johnson. 1,710,623; Apr. 23.
- Charging pressure containers, Apparatus for. D. S. Cone. 1,728,476; Sept. 17.
- Charm or similar article, Fraternal. J. B. Sylvan. Des. 77,376; Jan. 1.
- Chart. H. F. Goldsmith. 1,740,978; Dec. 24.
- Chart, Color. C. W. Fohsay. 1,709,975; Apr. 23.
- Chart-exhibiting apparatus. J. R. Suydam, jr. 1,711,070; Apr. 30.
- Chart for drafting patterns. T. C. Schaffner. 1,702,090; Feb. 12.
- Chart, Graphic. E. M. Andres. 1,713,811; May 21.
- Chart, Ordering. T. P. Corcoran. 1,708,567; Apr. 9.
- Chart, Orthopedic manikin. G. B. Emerson. 1,735,854; Nov. 19.
- Chart, Parliamentary. E. M. Hazel. 1,709,849; Apr. 23.
- Chart reminder, Permanent automobile service. B. D. Woolley. 1,711,711; May 7.
- Chart, Seating. F. A. Ruddy. 1,739,988; Dec. 17.
- Chart, Time. M. C. Mottayaw. 1,717,060; June 11.
- Chart, Tridimensional. K. G. Karsten. 1,700,318; Jan. 29.
- Charting the riding qualities of vehicles, Apparatus for. S. W. Widney. 1,722,069; July 23.
- Chaser. R. Kienzl. 1,740,604; Dec. 24.
- Chaser and chaser holder. L. S. Hall. 1,701,775; Feb. 12.
- Chaser and chaser holder for die heads. H. T. Shearer. 1,738,847; Dec. 10.
- Chaser and holding the same. S. F. Newman. 1,739,646; Dec. 17.
- Chassis frame. J. A. Wright. 1,730,598; Oct. 8.
- Chassis-lubricating installation. J. Bijur. 1,732,212; Oct. 15.
- Chassis, Motor. J. A. Wright. 1,697,099; Jan. 1.
- Chassis, Motor. J. A. Wright. 1,711,765; May 7.
- Chassis, Motor. J. A. Wright. 1,717,867; June 18.
- Chassis, Motor-vehicle. O. E. Barthel. 1,705,705; Mar. 19.
- Chassis of a caster attachment for trunks. I. G. Sviageninov. 1,697,619; Jan. 1.
- Chassis of sheet-metal stampings, Automobile. J. P. Tarbox. 1,737,810; Dec. 3.
- Chassis or frame construction. L. Thoms and W. H. Neely. 1,704,928; Mar. 12.
- Chassis spring, Auxiliary. F. J. Trainor. 1,702,751; Feb. 19.
- Chassis suspension device, Resilient. F. E. Best. 1,716,913; June 11.
- Chassis, Vehicle. J. Fraser. 1,708,217; Apr. 9.
- Check book. G. W. Cocks. 1,717,435; June 18.
- Check book and forming the same. C. C. Howard. 1,715,658; June 4.
- Check-book attachment. H. S. Williams. 1,727,120; Sept. 3.
- Check certifier. J. W. Carlson, T. M. Walsh, and O. Slettevold. 1,721,104; July 16.
- Check controlled apparatus for measurement and payment of intangible values. R. W. Babson. 1,731,839; Oct. 15.
- Check-controlled mechanism. M. H. Richardson and A. E. Gebert. 1,742,010; Dec. 31.
- Check draft. A. C. Wittig. 1,720,869; July 16.
- Check-endorsing machine. P. J. Clark. 1,709,897; Apr. 23.
- Check gate, Automatic. P. Harker. 1,738,051; Dec. 3.
- Check holder and cutter. C. T. Raschick. 1,717,937; June 18.
- Check, Limited. C. H. Wright. 1,723,640; Aug. 6.
- Check member for laundry-checking devices. J. H. Todd. 1,698,112; Jan. 8.
- Check, Nontransferable. G. N. Hartman. 1,704,940; Mar. 12.
- Check protecting. F. U. Conard. 1,732,223; Oct. 22.
- Check-protecting device. C. R. Martineau. Re17,241; Mar. 19.
- Check protector. M. Abramson. 1,709,106; Apr. 16.
- Check protector. C. M. Hedman. 1,703,106; Feb. 26.
- Check protector. C. O. Lawrenz. 1,701,328; Feb. 5.
- Check protector. A. Person. 1,715,383; June 4.
- Check protector. L. Pollock. 1,697,882; Jan. 8.
- Check protector. V. S. Zapanta. 1,737,136; Nov. 26.
- Check, Rebound. J. F. Doster. 1,718,545; June 25.
- Checker arrangement. F. H. Willcox. 1,706,270; Mar. 19.
- Checkerboard. S. Belanger. 1,700,016; Jan. 22.
- Checkerwork, Brick. J. M. Boczek. 1,700,398; Jan. 20.
- Checkerwork construction. E. G. Whelpley. 1,715,969; June 4.
- Checking device, Laundry-. J. S. Patterson. 1,722,014; July 23.
- Checking indicator for railway cars. C. F. Schell. 1,712,586; May 14.
- Checks, Apparatus for forming creep. E. Woodings. 1,706,370; Mar. 19.
- Checks, Forming creep. E. Woodings. 1,706,273; Mar. 19.
- Checks, Method and apparatus for selecting. H. E. Wurzbach and L. H. Wadsworth. 1,732,826; Oct. 22.
- Checks or rail anchors, Apparatus for forming anticreep. E. Woodings. 1,706,274; Mar. 19.
- Cheese agitator. G. Stoeltig. 1,728,637; Sept. 17.
- Cheese cutter. J. E. and O. P. Keys. 1,734,133; Nov. 5.
- Cheese, Making. H. P. Kernen. 1,708,099-100; Apr. 9.
- Cheese, Making. W. D. Richardson. 1,711,032; Apr. 30.
- Cheese, Manufacturing. J. R. Brehm. 1,704,458; Mar. 5.
- Cheese-treating machine. C. and H. H. Doering. 1,716,488; June 11.
- Chemical apparatus for reaction on heated solid material. T. Griswold, jr. 1,719,509; July 2.
- Chemical balance, Electromagnetic. H. Nagaoka and J. Ikebe. 1,717,462; June 18.
- Chemical compound and making same. O. Von Schickh. 1,717,424; June 18.
- Chemical furnace, Rotary. L. Tocco and M. Landi. 1,708,526; Apr. 9.
- Chemical products and making them. S. M. Cadwell. 1,724,180; Aug. 13.
- Chemical reaction on heated solid material, Apparatus for. T. Griswold, jr. 1,705,614; Mar. 19.
- Chemical reactions at high temperatures, Heating and controlling. C. Field. 1,734,329; Nov. 5.
- Chemical reactions, Conducting. G. D. Bagley. 1,731,331; Oct. 15.
- Chemical reactions, Process and apparatus for regulating. K. C. D. Hickman. 1,739,230; Dec. 10.
- Chemical reactions, Method and apparatus for effecting. S. Ruben. 1,702,950; Feb. 19.
- Chemical reactions, Method and apparatus for promoting. G. Jones. 1,699,070; Jan. 15.
- Chemical reactions, Speeding. H. B. Kipper. 1,697,390; Jan. 1.
- Chemical substance. E. H. King. 1,720,278-9; July 9.
- Chemical toilet. C. L. Carpenter and W. E. Jaquith. 1,715,116; May 28.
- Chemical wood pulp, Production of. D. B. Bradner. 1,711,584; May 7.
- Chemically transforming gases, Apparatus for. H. O. C. Isenberg. 1,719,610; July 2.
- Chemically treating natural oils, Apparatus for. J. L. Taylor and C. L. Howser; 1,717,744; June 18.



- Chemicals. Feeding apparatus for. P. Dorsey. 1,739,951; Dec. 17.
- Chemicals. Purifying. W. Weber and M. Jacobi. 1,722,871; July 30.
- Chemicals. Recovering. F. G. Rawling. 1,728,252; Sept. 17.
- Chemise and bloomers, Combination. L. Gale. 1,711,198; Apr. 30.
- Cherry-pitting machine. C. T. Howson. 1,701,533; Feb. 12.
- Cherry-pitting machine. H. C. Schau. 1,726,719; Sept. 3.
- Chest: See—  
Toy chest.
- Chest. C. C. Kusterer. 1,699,740; Jan. 22.
- Chest of drawers. B. Moretto. Des. 79,095; July 30.
- Chest or chamber, Cool. J. S. Ryan. 1,723,810; Aug. 6.
- Chest or similar article. E. M. Kernan. Des. 77,695; Feb. 12.
- Chick box. G. E. Bomberger. 1,714,295; May 21.
- Chick box. J. A. Weaver. 1,733,566; Oct. 29.
- Chick fountain. H. B. Meredith. 1,734,390; Nov. 5.
- Chick protector. T. E. Johnson. 1,719,768; July 2.
- Child's chair, Combination. G. A. Lang. 1,739,366; Dec. 10.
- Chill plate for use in molding tappet heads. A. B. Schall. 1,727,565; Sept. 10.
- Chimes, Regenerative. J. H. Hammond, jr. 1,722,983; July 30.
- Chimney. L. L. Blanchard. 1,700,018; Jan. 22.
- Chimney cap. J. J. Matlevish. 1,719,846; July 9.
- Chimney cap. O. S. Winkler. Des. 79,775; Oct. 29.
- Chimney flue. R. J. Moths. 1,700,850; Feb. 5.
- Chimney ventilator. A. McDonald and W. O. Smith. 1,700,905; Feb. 5.
- Chipper. W. J. Merkel and E. C. Shaw. 1,736,858; Nov. 26.
- Chiropractic table. E. R. Bebout. 1,710,400; Apr. 23.
- Chiropractic table, Tilttable. W. G. Williams. 1,735,703; Nov. 12.
- Chisel. Cold. J. Rauko. 1,719,449; July 2.
- Chisel retainer for chipping hammers. R. A. Norling. 1,706,460; Mar. 26.
- Chloroacetic anhydride, Making. C. J. Strosacker and C. C. Schwegler. 1,713,104; May 14.
- Chloride. Producing aluminum. H. Blumenberg, jr. 1,716,102; June 4.
- Chloride. Producing aluminum. C. G. Miner. 1,698,238; Jan. 8.
- Chloride, Production of metallic. R. de M. Taveau and C. B. Tygert. 1,698,324; Jan. 8.
- Chlorides and sulphates of alkali-earth metals in molten state by steam. Decomposition of. J. Kersten. 1,721,485; July 16.
- Chlorides free from water and oxides, Producing metal. M. Jaeger, W. Moschel, and R. Suchy. 1,702,301; Feb. 19.
- Chlorides, Manufacture of anhydrous metallic. W. F. Downs. 1,699,229; Jan. 15.
- Chlorinated perylenes, Manufacture of highly-. A. Zinke and K. Funke. 1,713,362; May 14.
- Chlorinating ores. T. A. Mitchell. 1,736,660; Nov. 19.
- Chlorination. E. E. Ayres, jr. 1,717,136; June 11.
- Chlorination. E. E. Ayres, jr. 1,741,393; Dec. 31.
- Chlorination products from hydrocarbons, Obtaining. E. Sper. 1,721,873; July 23.
- Chlorine ions from electrolytic solutions, Removing. V. Engelhardt. 1,740,165; Dec. 17.
- Chlorine, Obtaining pure. D. A. Pritchard and J. H. Hubel. 1,723,300; Aug. 6.
- Chloro-derivatives of *n*-dihydro-1,2', 1'-anthraquinone-azine, Production of. J. H. Sachs. 1,739,736; Dec. 17.
- Chloro-iodides of 2-aminopropionin-salts and making same. M. Dohrn and R. Dirksen. 1,723,457; Aug. 6.
- Chloroperylene quinones, Manufacturing. A. Zinke. 1,738,343; Dec. 3.
- Chlorosubstituted product of the 1-amino-2,4-dimethylbenzene and preparing it. E. Hoffa, E. Runne, and E. Thoma. 1,730,729; Oct. 8.
- Chock and starter for molding machine. F. R. Wallace. 1,736,513; Nov. 19.
- Chock block. E. S. Evans. 1,697,310; Jan. 1.
- Choke control. W. J. Linn. 1,707,763; Apr. 2.
- Chock for railway cars. F. Catignani. 1,741,613; Dec. 31.
- Chock for wagon bolsters, Load-. J. H. Baker. 1,726,729; Sept. 3.
- Choke actuator, Automatic. E. J. Hifner. 1,723,936; Aug. 6.
- Choke-cleaning device. C. C. Farmer. 1,723,143; Aug. 6.
- Choker hook. G. F. Hickok. 1,741,463; Dec. 31.
- Choker hook. G. A. Yeaton. 1,720,069; July 9.
- Cholesterol from blood, Apparatus for extracting. S. L. Leiboff. 1,722,435; July 30.
- Chopper: See—  
Cotton chopper. Food chopper.  
Culinary chopper. Meat chopper.
- Chopper and cultivator. F. Vasconcellos. 1,740,321; Dec. 17.
- Chopper and cutter, Food. W. H. Earles. 1,699,585; Jan. 22.
- Chopper attachment for cultivators, Cotton. W. G. Buchwald. 1,701,137; Feb. 5.
- Chopper blade and blade holder, Meat-. J. M. Stivers. 1,738,025; Dec. 3.
- Christmas light. S. J. Monk. 1,719,715; July 2.
- Chromic oxide, Manufacture of. H. C. Roth. 1,728,510; Sept. 17.
- Chromium compounds, Manufacture of. P. Weise. 1,723,536; Aug. 6.
- Chromium, Electrodeposition of. R. Auerbach. 1,730,349; Oct. 8.
- Chromium from chromiferous waste materials, Recovering. A. Treusch and R. Württemberg. 1,700,657; Jan. 29.
- Chromium, Method and apparatus for electrodepositing. K. W. Schwartz. 1,720,354; July 9.
- Chromium, Obtaining. M. N. Rich. 1,741,955; Dec. 31.
- Chromium oxide, Production of green hydrated. K. H. Meyer and H. Krzikalla. 1,723,556; Aug. 6.
- Chromium-plating machine. W. S. Eaton. 1,731,456; Oct. 15.
- Chuck. F. O. Albertson. 1,697,447; Jan. 1.
- Chuck. W. N. Booth. 1,703,715; Feb. 26.
- Chuck. J. Castagna. 1,716,718; June 11.
- Chuck. C. M. Conradson. 1,727,535; Sept. 10.
- Chuck. A. L. Currier. 1,740,645; Dec. 24.
- Chuck. D. N. Finlayson. 1,714,013; May 21.
- Chuck. K. F. Gallimore and M. Worytch. 1,728,406; Sept. 17.
- Chuck. G. F. Hopkins. 1,711,787; May 7.
- Chuck. J. A. Olson. 1,713,978; May 21.
- Chuck. A. C. Parker. 1,739,371; Dec. 10.
- Chuck. W. J. Snyder and E. C. Ahlheim. 1,740,377; Dec. 17.
- Chuck. R. A. Trace. 1,721,678; July 23.
- Chuck. L. E. Whiton. 1,713,796; May 21.
- Chuck. L. E. Whiton. 1,713,802; May 21.
- Chuck. L. E. Whiton. 1,713,804-5; May 21.
- Chuck-actuating device, Power-. S. T. Goss. 1,729,594; Sept. 24.
- Chuck, Air. C. A. Norgren. 1,701,162; Feb. 5.
- Chuck, Automatic. L. E. Whiton. 1,713,800; May 21.
- Chuck, Automatic threading. R. Giles and R. McWilliams. 1,699,186; Jan. 15.
- Chuck, Auxiliary centering. J. M. Keller. 1,699,295; Jan. 15.
- Chuck, Car-wheel-borer. F. Dustan and R. P. Skidmore. 1,730,063; Oct. 1.
- Chuck, Centering. A. W. Copland. 1,725,342; Aug. 20.
- Chuck for bushings. G. F. Yager. 1,734,989; Nov. 12.
- Chuck for ingot-slicing lathes, Automatic. F. B. Bell and J. C. Crocker. 1,711,769; May 7.
- Chuck for lathes and pipe-working machines. J. B. Galbraith. 1,720,829; July 16.
- Chuck for rock drills. G. W. Hulshizer. 1,716,443; June 11.
- Chuck for tubing machines. M. H. Sussman. 1,697,739; Jan. 1.
- Chuck for web rolls, Centering. I. I. Stone. Re17,479; Nov. 5.
- Chuck, Lathe. L. E. Whiton. 1,713,799; May 21.
- Chuck, Lathe. L. E. Whiton. 1,713,801; May 21.
- Chuck, Lathe. L. E. Whiton. 1,713,803; May 21.
- Chuck, Lathe. L. E. Whiton and A. Midwood, jr. 1,713,798-9; May 21.
- Chuck, Magnetic. H. Humphreys. 1,730,730; Oct. 8.
- Chuck mechanism for rock drills. C. C. Hansen. 1,715,359; June 4.
- Chuck, Motor-operated. H. M. Hay. 1,699,359; Jan. 15.
- Chuck-operating means. H. M. Hay. 1,699,358; Jan. 15.
- Chuck, Screw-driving. F. H. Wood. 1,698,521; Jan. 8.
- Chuck, Tapping. J. F. Buhr. 1,702,810; Feb. 19.
- Chuck, Tool-holding. H. C. Gustafson. 1,726,295; Aug. 27.
- Chuck, Work-holding. F. Fuchs. 1,732,840; Oct. 22.
- Chucking device for crank shafts. W. F. Groene. 1,723,347; Aug. 6.
- Chufa-gathering apparatus. W. W. Crews. 1,714,348; May 21.
- Churn. N. J. Adams. 1,742,118; Dec. 31.
- Churn. L. E. Alderson. 1,698,116; Jan. 8.
- Churn. J. M. Brooks. 1,716,363; June 11.
- Churn. G. Green. 1,729,105; Sept. 24.
- Churn. O. V. Jones. 1,725,648; Aug. 20.
- Churn. G. O. Laney. 1,732,974; Oct. 22.
- Churn. H. H. Miller. 1,714,099; May 21.
- Churn. R. G. Truitt, B. C. Tate, and J. W. Qualls. 1,737,625; Dec. 3.
- Churn and ice-cream-freezer attachment. L. F. Kracke. 1,697,656; Jan. 1.
- Churn guard. R. M. Becker. 1,705,654; Mar. 19.
- Churn, Hand. J. H. Barton. 1,719,317; July 2.
- Chute, Adjustable coal. S. Barcus. 1,724,548; Aug. 13.
- Chute and manufacture, Spiral lowering. F. Pardee. 1,708,029; Apr. 9.
- Chute, Arc. E. E. Rose. 1,697,143; Jan. 1.
- Chute, Coal. C. H. Eddy. 1,733,118; Oct. 29.
- Chute, Coin-delivery. M. Lippe. 1,731,783; Oct. 15.
- Chute delivery mechanism for dump wagons. J. G. and W. J. Hansen. 1,718,460; June 25.
- Chute, Dough. R. C. Daubs and R. S. Cannon. 1,708,874; Apr. 9.
- Chute, Grain-delivery. R. C. Clapp. Re17,439; Sept. 24.
- Chute, Loading. F. De Ross. 1,723,469; Aug. 6.
- Chute, Loading. E. W. Tangeman. 1,739,335; Dec. 10.
- Chute, Lowering. F. Pardee. 1,712,715; May 14.
- Chute, Lowering. F. Pardee and F. Pardee, jr. 1,722,675; July 30.
- Chute or carrier, Vibratory. A. Sklenář. 1,735,137; Nov. 12.
- Chute, Rotary discharge. G. E. Webb. 1,702,224; Feb. 12.
- Chute, Stock-loading. R. P. Siddens. 1,733,517; Oct. 29.
- Chute-supporting means, Coal-. J. L. Goff. 1,726,662; Sept. 3.



- Chute, Waste. F. O. Grapp. 1,719,545; July 2.  
 Chute, Waste-disposal. C. M. Wilkinson. 1,739,534; Dec. 17.  
 Cigar and cigarette extinguisher, Combined. C. H. Corrigan. 1,738,693; Dec. 10.  
 Cigar and cigarette support. E. Caldwell. 1,727,582; Sept. 10.  
 Cigar box. A. A. Adamson. 1,700,964; Feb. 5.  
 Cigar-brushing machine. K. Lyle. 1,729,078; Sept. 24.  
 Cigar cutter. E. Pohl. 1,727,443; Sept. 10.  
 Cigar cutter. M. Schulz. 1,730,438; Oct. 8.  
 Cigar filler feed. W. B. Bronander. 1,740,571; Dec. 24.  
 Cigar lighter. C. E. Beardsley and E. P. Wallace. Des. 79,175; Aug. 13.  
 Cigar lighter. W. Gordon. Des. 79,135; Aug. 6.  
 Cigar machines, Bunch shaper for. J. F. Halstead. 1,729,440; Sept. 24.  
 Cigar machines, Bunch transfer for. S. Clausen and V. G. Hanson. 1,740,575; Dec. 24.  
 Cigar machines, Bunch transfer for. L. Ferenci. 1,721,551; July 23.  
 Cigar machines, Interchangeable filler feed for. W. J. Hawkins. 1,721,557; July 23.  
 Cigar-making machine. W. T. Fitz Gerald and M. E. Miller. 1,713,127; June 18.  
 Cigar-making machine and product thereof. W. T. Fitz Gerald. 1,721,332; July 16.  
 Cigar piercer. A. Giacomini. 1,734,620; Nov. 5.  
 Cigarette and match box, combination. S. A. Kornsweet. 1,726,843; Sept. 3.  
 Cigarette and match case and ash tray, Combined. L. A. Garner. Des. 78,706; June 11.  
 Cigarette and match case, Waterproof. L. D. Bartucci. 1,714,840; May 28.  
 Cigarette and vanity case, Combination. W. M. Hauch. 1,731,008; Oct. 8.  
 Cigarette box. J. Glaenger. 1,736,651; Nov. 19.  
 Cigarette case. A. G. Langlois. 1,725,654; Aug. 20.  
 Cigarette case. J. A. Skoglund. 1,714,736-7; May 28.  
 Cigarette case. H. A. Stanley. 1,705,829; Mar. 19.  
 Cigarette case and lighter, Combined. J. Mara. 1,741,867; Dec. 31.  
 Cigarette case and vanity box, Combined. A. Hagel. 1,716,051; June 4.  
 Cigarette counter-rolling machine, Transferring means for. C. F. Röber. 1,738,615; Dec. 10.  
 Cigarette dispenser. G. L. Gaston. 1,715,498; June 4.  
 Cigarette dispenser. L. Weidlich. 1,729,918; Oct. 1.  
 Cigarette dispenser and humidifier, Combined. O. W. Moore. Des. 78,305; Apr. 16.  
 Cigarette ejector. E. F. Bossung. 1,700,020; Jan. 22.  
 Cigarette fire choker and ash tray. L. H. Offutt. 1,733,028; Oct. 22.  
 Cigarette holder and ash tray, Combination. A. von Frankenberg. Des. 78,420; Apr. 30.  
 Cigarette holder and buttonhook, Combination. H. E. Gifford. 1,710,020; Apr. 23.  
 Cigarette machine. M. P. E. Hohn. 1,723,510; Aug. 6.  
 Cigarette machine. E. Koerner. 1,723,942; Aug. 6.  
 Cigarette machine. M. Takahashi. 1,739,334; Dec. 10.  
 Cigarette machine, Cut-off for. W. B. Bronander. 1,729,436; Sept. 24.  
 Cigarette-machine printer, Paper-inserting device for. M. Klein. 1,740,605; Dec. 24.  
 Cigarette machine, Rod. R. O. K. Buttner. 1,726,256; Aug. 27.  
 Cigarette-making apparatus. G. P. Silke. 1,726,368; Aug. 27.  
 Cigarette-making device. H. L. Swan. 1,725,768; Aug. 27.  
 Cigarette-making device, Pocket. M. Alland. 1,718,678; June 25.  
 Cigarette-making machine. M. Alland. 1,703,089; Feb. 26.  
 Cigarette-making machine. M. Alland. 1,718,677; June 25.  
 Cigarette-making machine. W. F. Grupe. 1,705,012; Mar. 12.  
 Cigarette-making machinery. W. E. Molins. 1,727,299; Sept. 3.  
 Cigarette-making machinery. W. E. Molins. 1,733,027; Oct. 22.  
 Cigarette-making machines, Apparatus for uniformly feeding cut tobacco to the rod-forming mechanism of. H. Schünemann. 1,724,319; Aug. 13.  
 Cigarette-manufacturing machinery. N. M. Hopkins. 1,721,117; July 16.  
 Cigarette package. M. M. Marcuse. 1,718,572; June 25.  
 Cigarette package. W. D. Owen. 1,713,765; May 21.  
 Cigarette-packing machine. V. Popov. 1,717,403; June 18.  
 Cigarette-perforating device. K. N. Knudsen. 1,740,606; Dec. 24.  
 Cigarette-smoker's set. B. F. Conner. 1,737,644; Dec. 3.  
 Cigarette tip. C. L. De Shon. 1,718,122; June 13.  
 Cigarette-vending device. T. Simpson. 1,715,104; May 28.  
 Cigarettes, Mechanism for making. J. Selbach. 1,724,735; Aug. 13.  
 Cigarettes of flat or oval cross section side by side in an oblique position. Device for placing. E. Koerner. 1,720,907; July 16.  
 Cigarettes, Packing. A. Vuccino. 1,711,368; Apr. 30.  
 Cigars, Manufacturing. W. Thiele. 1,716,250; June 4.  
 Cinch. C. W. Lane. 1,697,833; Jan. 1.  
 Cinder arrester. T. J. Dowd. 1,704,592; Mar. 5.  
 Cinematograph and optical projection apparatus, Spool case for. J. E. Thornton. 1,716,990; June 11.  
 Cinematograph and other film, Multicolor. J. E. Thornton. 1,707,825; Apr. 2.  
 Cinematograph and other films, Multicolor. J. E. Thornton. 1,700,616; Jan. 29.  
 Cinematograph and other films, Multicolor. J. E. Thornton. 1,700,618; Jan. 29.  
 Cinematograph apparatus. R. J. Neil. 1,725,595; Aug. 20.  
 Cinematographic apparatus. A. Ernemann. 1,697,758; Jan. 1.  
 Cinematographic apparatus. G. S. James. 1,706,296; Mar. 19.  
 Cinematographic apparatus. J. S. Pocerfi. 1,707,943; Apr. 2.  
 Cinematographic apparatus, Glass picture projecting device for. W. Winzenberg. 1,721,425; July 16.  
 Cinematographic exposing apparatus. H. Friess. 1,708,087; Apr. 9.  
 Cinematographic projection apparatus, Device for stopping. H. Joachim. 1,702,302; Feb. 19.  
 Cinematographs with continuously-moving films, Correcting device for. V. Continsouza and M. B. Combes. 1,739,442; Dec. 10.  
 Cinematography, Stereoscopic. D. L. Daponte. 1,714,849; May 28.  
 Cinnamylidene anthrones. R. Berliner, B. Stein, and W. Trautner. 1,713,590; May 21.  
 Circuit and fuse tester, Electric. L. H. Garaux. 1,724,014; Aug. 13.  
 Circuit arrangement for automatic telephone systems. M. Langer. 1,714,881; May 28.  
 Circuit arrangement for railroad signaling. E. Mayer. 1,696,963; Jan. 1.  
 Circuit arrangement for telephonic communication. W. Schaffer. 1,730,017; Oct. 1.  
 Circuit arrangement for the operation of photo-electric cells. A. Karolus. 1,739,005; Dec. 10.  
 Circuit arrester, Short. J. W. Arnett. 1,725,948; Aug. 27.  
 Circuit breaker. C. Aalborg. 1,700,870-2; Feb. 5.  
 Circuit breaker. J. M. Andersen. 1,721,584; July 23.  
 Circuit breaker. W. M. Austin. 1,734,190; Nov. 5.  
 Circuit breaker. F. P. Ellis. 1,737,961; Dec. 3.  
 Circuit breaker. A. W. Hull. 1,723,858; Aug. 6.  
 Circuit breaker. F. C. Kroeger. 1,708,225; Apr. 9.  
 Circuit breaker. J. N. Todd, jr. 1,740,911; Dec. 24.  
 Circuit breaker, Automatic. W. R. Moore, jr. 1,719,517; July 2.  
 Circuit breaker, Automatic. J. Sachs. 1,736,371-2; Nov. 19.  
 Circuit breaker, Automatic reclosing. A. J. A. Peterson. 1,731,936; Oct. 15.  
 Circuit breaker, Earthquake-operated safety automatic. J. L. Blalack. 1,737,105; Nov. 26.  
 Circuit breaker, Electric. H. P. Chandler. 1,720,263; July 9.  
 Circuit breaker for ignition systems. J. E. Swalinkavich, jr. 1,739,874; Dec. 17.  
 Circuit breaker for snap switches. F. P. Gates. 1,728,794; Sept. 17.  
 Circuit breaker, High-speed. A. J. Mottlau. 1,731,391; Oct. 15.  
 Circuit breaker, Oil. F. Stern. 1,709,922; Apr. 23.  
 Circuit breaker or interrupter, Electrical. E. Aichele. 1,704,379; Mar. 5.  
 Circuit breaker, Periodic cam-operated. R. H. Wappler. 1,730,988; Oct. 8.  
 Circuit breaker, Resistance shunt. W. M. Austin. 1,705,701; Mar. 19.  
 Circuit breaker, Retarded. H. R. Stewart. 1,735,588; Nov. 12.  
 Circuit-breaker system. C. Aalborg. 1,740,531; Dec. 24.  
 Circuit-breaker system. D. C. West. 1,732,736; Oct. 22.  
 Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,701,351; Feb. 5.  
 Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,711,106; Apr. 30.  
 Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,713,209; May 14.  
 Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,718,516; June 25.  
 Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,725,692; Aug. 20.  
 Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,731,965-6; Oct. 15.  
 Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,733,853; Oct. 29.  
 Circuit-breaker system, Automatic reclosing. J. W. McNairy. 1,710,939; Apr. 30.  
 Circuit-breaker system, Automatic reclosing. C. McL. Moss, W. R. Farley, and A. J. A. Peterson. 1,731,864; Oct. 15.  
 Circuit-breaker system, Automatic reclosing. O. C. Traver. 1,732,292; Oct. 22.  
 Circuit-breaker system, Automatic reclosing. K. Yamazaki. 1,718,448; June 25.  
 Circuit-breaker tank. C. Aalborg. 1,709,648; Apr. 16.  
 Circuit breaker, Truck-type. D. R. Davies. 1,726,656; Sept. 3.  
 Circuit-breaking mechanism. E. H. Rende. 1,726,717; Sept. 3.  
 Circuit-breaking system, Automatic. H. Benit. 1,714,415; May 21.  
 Circuit changer, Remote control. H. A. Brown. 1,708,691; Apr. 9.  
 Circuit closer. F. Fischer. 1,720,591; July 9.



- Circuit closer. R. Harden. 1,707,805; Apr. 2.  
 Circuit closer. A. Janer. 1,724,597; Aug. 13.  
 Circuit closer. H. J. Murray and S. Ruggs. 1,719,777; July 2.  
 Circuit closer. E. Poulin. 1,707,873; Apr. 2.  
 Circuit closer. L. C. Wood. 1,713,460; May 14.  
 Circuit closer, Coin-controlled. A. W. Tucker. 1,734,838; Nov. 5.  
 Circuit closer, Door-edge. L. P. Hynes and P. M. Griffin. 1,705,406; Mar. 12.  
 Circuit closer, Electric-. N. Schleich and C. J. Aldridge. 1,717,467; June 18.  
 Circuit closer for automobile signaling devices. W. F. Raab. 1,707,139; Mar. 26.  
 Circuit closer for electric signal lights and signs, Automatic. W. E. Nagem. 1,738,444; Dec. 3.  
 Circuit closer, Float-operated. J. R. Brown. 1,738,688; Dec. 10.  
 Circuit closer, Thermal. J. M. Johnson. 1,701,680; Feb. 12.  
 Circuit closer, Thermostatic. O. Teel. 1,717,529; June 18.  
 Circuit-closing device. W. F. Raab. 1,707,176; Mar. 26.  
 Circuit-closing device, Humidity-responsive. F. C. Hingsburg. 1,706,850; Mar. 26.  
 Circuit conductors, Making magnetic-. C. S. Weyandt and H. E. Fox. 1,706,721; Mar. 26.  
 Circuit connector. G. H. Tovey. 1,734,925; Nov. 5.  
 Circuit connector. W. R. Walker. 1,721,757; July 23.  
 Circuit connector, Electric-. G. Carlson. 1,733,861; Oct. 29.  
 Circuit continuing device. H. A. Douglas. 1,734,565; Nov. 5.  
 Circuit-control device, Electric-. J. De Giovanni. 1,731,003; Oct. 8.  
 Circuit-control mechanism. S. Seaberg. 1,719,563; July 2.  
 Circuit-control, Pressure-actuated. I. E. McCabe. 1,734,015-16; Oct. 29.  
 Circuit-control system. R. Mayne. 1,723,289; Aug. 6.  
 Circuit-control system. A. Pascher. 1,723,884; Aug. 6.  
 Circuit controller. G. W. Berthold. 1,702,035; Feb. 12.  
 Circuit controller. R. B. Hunter. 1,723,040; Aug. 6.  
 Circuit controller. I. E. McCabe. 1,734,017; Oct. 29.  
 Circuit controller. J. W. McNairy. 1,706,124; Mar. 19.  
 Circuit controller. W. E. Smith. 1,715,476; June 4.  
 Circuit controller. W. C. Stevens. 1,713,931; May 21.  
 Circuit controller. T. G. Stiles. 1,700,149; Jan. 29.  
 Circuit controller. B. F. Wooding. 1,718,724; June 25.  
 Circuit controller, Automatic. W. Büstyn. 1,728,038; Sept. 10.  
 Circuit controller, Electric. W. S. Edsall. 1,737,649; Dec. 3.  
 Circuit controller for lifting magnets. H. E. Hodgson. 1,737,846; Dec. 3.  
 Circuit controller, Magnetic. H. V. Green. 1,713,223; May 14.  
 Circuit controller, Plunger lock. T. G. Stiles. 1,734,452; Nov. 5.  
 Circuit controller, Slow-acting. F. W. Haderman. 1,720,896; July 16.  
 Circuit controller, Thermal. H. E. White. 1,736,989; Nov. 26.  
 Circuit controllers, Operating means for. W. C. Locke. 1,713,493; May 14.  
 Circuit-controlling apparatus, Rheostatic. J. G. Zimmermann. 1,741,802; Dec. 31.  
 Circuit-controlling device. J. L. Blalack. 1,734,071; Nov. 5.  
 Circuit-controlling device. H. E. Butler. 1,701,357; Feb. 5.  
 Circuit-controlling device. H. C. Parker. 1,704,404; Mar. 5.  
 Circuit-controlling device. J. M. Pestarini. 1,720,566; July 9.  
 Circuit-controlling device, Automatic. J. A. Jackson. 1,708,886; Apr. 9.  
 Circuit-controlling device, Electric-. J. M. Lea. 1,701,757; Feb. 12.  
 Circuit-controlling mechanism, Automatic. E. H. Romde. 1,710,071; Apr. 23.  
 Circuit-controlling system. C. W. Rice. 1,731,866; Oct. 15.  
 Circuit-controlling system, Selective-. B. W. Jones. 1,715,067; May 28.  
 Circuit, Coupling. W. Kummerer. 1,723,485; Aug. 6.  
 Circuit-disabling device for electric lamps. R. T. Hosking. 1,724,654; Aug. 13.  
 Circuit, Echo-measuring. I. G. Wilson. 1,723,108; Aug. 6.  
 Circuit fitting, Electrical-. O. A. Frederickson. 1,713,526; May 21.  
 Circuit for central telephone offices, Electric. A. Rosa. 1,723,524; Aug. 6.  
 Circuit for ocean-cable relays, Correcting. J. W. Milnor. 1,717,116; June 11.  
 Circuit for train-control systems, Oscillating. T. E. and J. E. Clark. 1,737,750; Dec. 3.  
 Circuit for wireless signaling, Receiving. N. P. Hinton. 1,702,440; Feb. 19.  
 Circuit, Intercepting cord and trunk. R. L. Stokely. 1,708,959; Apr. 16.  
 Circuit interrupter. C. Aalborg. 1,732,801; Oct. 22.  
 Circuit interrupter. E. Aichele. 1,732,295; Oct. 22.  
 Circuit interrupter. W. S. Edsall. 1,697,309; Jan. 1.  
 Circuit interrupter. O. H. Eschholz. 1,697,171; Jan. 1.  
 Circuit interrupter. R. Gasparik. 1,713,078; May 14.  
 Circuit interrupter. G. G. Grissinger. 1,726,953; Sept. 3.  
 Circuit interrupter. E. M. Hewlett. 1,713,229; May 14.  
 Circuit interrupter. F. Natalis. 1,703,353; Feb. 26.  
 Circuit interrupter. W. K. Rankin. 1,717,260; June 11.  
 Circuit interrupter. D. Ulrey and L. N. Crichton. 1,699,769; Jan. 22.  
 Circuit interrupter, Automatic. G. Hesse. 1,704,288; Mar. 5.  
 Circuit interrupter, Electric-. M. M. Samuels and J. Amon. 1,734,982; Nov. 12.  
 Circuit interrupter, Electrically-operated. T. T. Greenwood. 1,720,413; July 9.  
 Circuit interrupter, Farm. K. C. Randall and H. K. Ansingh. 1,700,853; Feb. 5.  
 Circuit interrupter, High-speed. C. L. Fortescue. 1,730,881; Oct. 8.  
 Circuit interrupter, Oil-. C. Aalborg. 1,741,966; Dec. 31.  
 Circuit interrupter, Periodic reclosing. H. A. Travers. 1,706,713; Mar. 26.  
 Circuit-interrupter tripping system. G. F. Jones. 1,715,708; June 4.  
 Circuit-interrupting device. J. Slepian. 1,715,681; June 4.  
 Circuit-interrupting device. J. A. Spencer. 1,718,716; June 25.  
 Circuit-interrupting system. D. C. Prince. 1,733,904; Oct. 29.  
 Circuit make and break apparatus. S. Seaberg. 1,700,910; Feb. 5.  
 Circuit make and break device, Automatic electric-. J. Shannon and H. Shannon. 1,734,233; Nov. 5.  
 Circuit maker and breaker. F. S. Denison. 1,732,182; Oct. 15.  
 Circuit maker and breaker. E. A. Meyer. 1,719,302; July 2.  
 Circuit maker and breaker, Electric. A. P. Holden and P. Morgan. 1,736,198; Nov. 19.  
 Circuit maker and interrupter. B. W. Jones and C. H. Chapman. 1,724,840; Aug. 13.  
 Circuit making and breaking apparatus, Thermostatic. A. Albert. 1,741,599; Dec. 31.  
 Circuit means, Holding-. F. Hedley and J. S. Doyle. 1,738,997; Dec. 10.  
 Circuit, Oscillation. W. Scheppmann. 1,697,328; Jan. 1.  
 Circuit, Oscillator cell. C. F. Jenkins. 1,704,360; Mar. 5.  
 Circuit protection. O. Mayr. 1,732,977; Oct. 22.  
 Circuit protection. O. C. Traver. 1,719,912; July 9.  
 Circuit-protective device. E. M. Claytor. 1,705,716; Mar. 19.  
 Circuit, Receiving. G. C. de Coutouly. 1,717,010; June 11.  
 Circuit switch, Ignition. T. H. Thomas. 1,727,384; Sept. 10.  
 Circuit system, Alarm. G. C. Snyders, C. Gordyn, Jr., J. van de Kamp, and C. E. A. Maitland. 1,740,123; Dec. 17.  
 Circuit, Telegraph. H. Nyquist. 1,714,567; May 28.  
 Circuit, Time-controlled. B. Thaw, Jr. 1,713,630; May 21.  
 Circuit, Toll trunk. R. S. Bailey. 1,712,542; May 14.  
 Circuit, Wireless receiving. N. P. Hinton. 1,702,439; Feb. 19.  
 Circuiting device, Short-. D. M. Bliss. 1,705,231; Mar. 12.  
 Circuits, Adjustable resistor unit for thermocouple. F. S. Stickney. 1,728,810; Sept. 17.  
 Circuits, Associated resonant. J. S. Stone. 1,720,770; July 16.  
 Circuits, Cable. G. Wuckel. 1,705,339; Mar. 19.  
 Circuits, Communicating. W. A. Fletcher. 1,715,283; May 28.  
 Circuits, Control for electric. G. Muffy. 1,721,163; July 16.  
 Circuits, Controlling means for electric. C. Horsley and E. R. Goldfield. 1,717,317; June 11.  
 Circuits, Coupling. W. Wurst. 1,702,068; Feb. 12.  
 Circuits, Device for controlling electric. A. W. Burke. 1,707,185; Mar. 26.  
 Circuits, Echo-suppressor. C. H. Fetter. 1,711,562; May 7.  
 Circuits, Electrical. L. W. Austin. 1,704,071; Mar. 5.  
 Circuits, Electrical communication. S. Ballantine. 1,723,719; Aug. 6.  
 Circuits, Electrical transmission. H. Whittle. 1,739,699; Dec. 17.  
 Circuits, Frequency translating. C. R. Keith. 1,700,536; Jan. 29.  
 Circuits, High-frequency electrical. E. L. Powell. 1,737,125; Nov. 26.  
 Circuits, High-frequency oscillating. H. B. Holthouse. 1,710,541; Apr. 23.  
 Circuits, Low-frequency electric amplifier. P. H. Greeley. 1,735,750; Nov. 12.  
 Circuits, Neutralizing interfering disturbances in electric. J. W. Milnor. 1,714,476; May 21.  
 Circuits, Oscillation. W. Kummerer. 1,726,076; Aug. 27.  
 Circuits, Piezo-electric crystal. F. B. Monar. 1,739,165; Dec. 10.  
 Circuits, Protective apparatus for alternating-current electric. R. W. Biles. 1,714,071; May 21.  
 Circuits, Protective device for electric. H. M. Bascom. 1,741,356; Dec. 31.  
 Circuits, Rectifier. E. W. Lincoln. 1,724,607; Aug. 13.  
 Circuits, Rectifier. C. E. Stryker and E. W. Lincoln. 1,729,753; Oct. 1.  
 Circuits, Repeater. P. B. Flanders. 1,731,656; Oct. 15.  
 Circuits, Signal-operated repeater. H. W. Dudley. 1,722,039; July 23.



- Circuits, Signal-receiving. F. A. Kolster. 1,707,440; Apr. 2.
- Circuits, Signal-receiving. F. A. Kolster. 1,708,182; Apr. 9.
- Circuits, Signaling. B. F. Lewis. 1,733,127; Oct. 29.
- Circuits, Signaling. R. S. Ohl. 1,698,770; Jan. 15.
- Circuits, Signaling and transmission. H. Ladner. 1,716,447; June 11.
- Circuits, Suppression of echoes and singing in four-wire. H. Nyquist. 1,740,621; Dec. 24.
- Circuits, Suppression of echoes and singing in four-wire. H. C. Silent. 1,714,525; May 28.
- Circuits, Telegraph repeater. J. Herman. 1,736,786; Nov. 26.
- Circuits, Telephone signaling. E. W. Niles and W. H. Edwards. 1,733,130; Oct. 29.
- Circuits, Transmission. W. L. Casper. 1,718,946; July 2.
- Circuits, Volume regulation in two-way telephone. J. Herman and S. B. Wright. 1,740,856; Dec. 24.
- Circular, Advertising. D. R. Baker. 1,709,881; Apr. 23.
- Circulating and distributing flotation pulp, Apparatus for. W. Fagergren. 1,736,073; Nov. 19.
- Circulating apparatus. H. S. Fassett. 1,709,468; Apr. 16.
- Circulating apparatus for hot gases. A. Besta. 1,719,684; July 2.
- Circulating brine, Device for. O. G. Halvorsen. 1,727,974; Sept. 10.
- Circulating device. F. M. Harm. 1,736,593; Nov. 19.
- Circulating device, Auxiliary. A. C. Urch. 1,715,876; June 4.
- Circulating heater. J. L. Breese, jr. 1,719,500; July 2.
- Circulating heater, Electric. W. Schott. 1,704,021; Mar. 5.
- Circulation, Cavity-wall hot and cool air. J. M. Leighton. 1,706,893; Mar. 26.
- Circulation for hot air furnaces, Forced. J. M. Lieber. 1,724,209; Aug. 13.
- Circulator for boilers. H. Vick. 1,707,337; Apr. 2.
- Circulator for hot-water systems. J. T. Ketchum. 1,720,333; July 9.
- Clamp: See—
- |                             |                         |
|-----------------------------|-------------------------|
| Air clamp.                  | Machine clamp.          |
| Anchorage clamp.            | Molding-machine clamp.  |
| Automatic clamp.            | Panel-trim clamp.       |
| Battery-post clamp.         | Paper or similar clamp. |
| Belt clamp.                 | Paste cleaner.          |
| Binding clamp.              | Pen and pencil clamp.   |
| Boiler-flue cleaner.        | Picture-frame clamp.    |
| Brake-lining clamp.         | Pipe clamp.             |
| Bumper clamp.               | Pipe or rod clamp.      |
| Button clamp.               | Plate clamp.            |
| Cable clamp.                | Plow-line clamp.        |
| Cable-connection clamp.     | Rail clamp.             |
| Carriage cover clamp.       | Resilient clamp.        |
| Casing clamp.               | Rod clamp.              |
| Cloth clamp.                | Rope clamp.             |
| Clothesline clamp.          | Saw clamp.              |
| Column clamp.               | Scaffolding clamp.      |
| Combination clamp.          | Screw clamp.            |
| Conductor clamp.            | Shoe-sole clamp.        |
| Conductor-suspension clamp. | Spark-plug cleaner.     |
| Crate-cover clamp.          | Splicing clamp.         |
| Cross-arm clamp.            | Stretching clamp.       |
| Cutter clamp.               | Surgical clamp.         |
| Dental clamp.               | Telescoping arm clamp.  |
| Dyeing clamp.               | Terminal clamp.         |
| Fare-box clamp.             | Tie and rail clamp.     |
| Fence-post clamp.           | Toolmakers clamp.       |
| Flask clamp.                | Tube clamp.             |
| Form clamp.                 | Tube-repairing clamp.   |
| Heel clamp.                 | Umbilical clamp.        |
| Hose clamp.                 | Welding clamp.          |
| Key-column clamp.           | Window-screen clamp.    |
| Ladder clamp.               | Windshield clamp.       |
| Ledger-board clamp.         | Wire clamp.             |
| Leg clamp.                  | Woodworking clamp.      |
| Line clamp.                 | Work-holding clamp.     |
| Long splice clamp.          | Yarn clamp.             |
- Clamp. C. S. Andrews. 1,726,790; Sept. 3.
- Clamp. C. H. Bone. 1,707,754; Apr. 2.
- Clamp. G. B. Bosco. 1,719,921; July 9.
- Clamp. F. A. Davidson. 1,710,693; Apr. 30.
- Clamp. A. M. Deslauriers. 1,696,905; Jan. 1.
- Clamp. G. Engel. 1,703,927; Mar. 5.
- Clamp. R. Gouirand. 1,698,813; Jan. 15.
- Clamp. F. Griesell. 1,716,887; June 11.
- Clamp. T. E. Jamison, C. C. Pollard, and J. C. Farmer. 1,728,125; Sept. 10.
- Clamp. H. S. Jandus. 1,735,926; Nov. 19.
- Clamp. I. H. Judd. 1,703,737; Feb. 26.
- Clamp. G. Krell and G. M. Martinet. 1,725,459; Aug. 20.
- Clamp. J. S. Lapp. 1,729,785; Oct. 1.
- Clamp. M. Mirkin. 1,716,928; June 11.
- Clamp. J. J. Puterbaugh. 1,700,334; Jan. 29.
- Clamp. B. R. Sagenkahn and H. Seavers. 1,709,743; Apr. 16.
- Clamp. B. A. Tetzlaff. 1,723,259; Aug. 6.
- Clamp. B. A. Tetzlaff. 1,726,006; Aug. 27.
- Clamp. G. A. Von Hagel. 1,729,694; Oct. 1.
- Clamp and bridle ring, Cable. C. H. Klein and E. St. John. 1,700,168; Jan. 29.
- Clamp and cable connector, Combination battery. H. Schmidt. 1,699,925; Jan. 22.
- Clamp and forming same, Leveling-rod. A. Langsner. 1,728,893; Sept. 17.
- Clamp and the like, Hood. W. G. Milligan. 1,698,959; Jan. 15.
- Clamp and tightener, Belt. W. F. Cornelius. 1,732,789; Oct. 22.
- Clamp-bolt mechanism. F. Brandt. 1,715,982-3; June 4.
- Clamp carrier. R. W. Burns. 1,702,036; Feb. 12.
- Clamp carrier, Glue. E. J. Bilstrom. 1,729,146; Sept. 24.
- Clamp-draw gun. A. A. Tancredi. 1,717,073; June 11.
- Clamp for abrasives. J. R. Thomas. 1,722,359; July 30.
- Clamp for concrete forms. D. Vocisano. 1,702,676; Feb. 19.
- Clamp for electric conductors. N. I. Smith. 1,704,305; Mar. 5.
- Clamp for electrical cables. J. Zilliox. 1,741,804; Dec. 31.
- Clamp for extension rims. H. W. Norton. 1,715,171; May 28.
- Clamp for holding wire-line cables. O. L. West and C. W. Boland. 1,711,005; Apr. 30.
- Clamp for knock-out boxes, Conduit. N. O. Houghton. 1,721,119; July 16.
- Clamp for live wires, Springless safety. H. W. Bodendieck and M. T. Tipsord. 1,720,030; July 9.
- Clamp for open-side planers, Cross-rail. E. L. Fickett and P. E. Arthur. 1,702,471; Feb. 19.
- Clamp for pipe-working tools, Centering. V. T. Sprague. 1,701,281; Feb. 5.
- Clamp for positioning and holding beams for welding. H. R. Lentz. 1,705,670; Mar. 19.
- Clamp for pressure hose. G. C. Deakins. 1,720,781; July 16.
- Clamp for railway-car wheels. T. C. Brasel. 1,734,792; Nov. 5.
- Clamp for structural tubes, bars, and the like. A. Smallwood. 1,729,910; Oct. 1.
- Clamp for supporting electric conductors. R. G. Williams. 1,725,119; Aug. 20.
- Clamp for wire conductors. H. W. Bodendieck and M. T. Tipsord. 1,712,067; May 7.
- Clamp jaw. J. M. Hargrave. 1,708,617; Apr. 9.
- Clamp or grip hook, Fender. R. E. Stinson. 1,708,433; Apr. 9.
- Clamp plate. H. S. Jandus. Des. 78,209; Apr. 9.
- Clamp plate. H. S. Jandus and J. R. Morgan. Des. 78,888; July 2.
- Clamp plate. H. S. Jandus and J. R. Morgan. Des. 80,176; Dec. 24.
- Clamp plate. H. S. Jandus and N. Van Husen. Des. 77,226-7; Mar. 5.
- Clamp plate. H. S. Jandus and N. Van Husen. Des. 77,337; Feb. 26.
- Clamp plate. W. Meyerhuber. Des. 80,242; Dec. 31.
- Clamp plate for vehicle bumper. H. S. Jandus and E. R. Keelor. Des. 79,886; Nov. 12.
- Clamp plate for vehicle bumpers. H. S. Jandus and J. R. Morgan. Des. 78,627; May 28.
- Clamp plate for vehicle bumpers. H. S. Jandus and J. R. Morgan. Des. 79,519; Oct. 1.
- Clamp puller, Battery terminal. P. P. Hinote. 1,700,051; Jan. 22.
- Clamp-screw lock. H. J. Hillborn. 1,707,266; Apr. 2.
- Clamping and releasing device, Ratchet. W. J. Farrell. 1,717,349; June 11.
- Clamping apparatus. J. Q. Bell. 1,728,718; Sept. 17.
- Clamping arrangement, Record-sheet. H. B. Nickerson. 1,716,899; June 11.
- Clamping bracket. W. G. Mayer. 1,730,777; Oct. 8.
- Clamping bung or plug for steel drums, Universal. M. P. Weimar. 1,698,485; Jan. 8.
- Clamping clip, Fabric. A. F. Mowry. 1,738,111; Dec. 3.
- Clamping device. E. F. Chaffee. 1,715,990; June 4.
- Clamping device. J. F. Loucks. 1,714,681; May 28.
- Clamping device. E. A. Odin. 1,726,039; Aug. 27.
- Clamping device. E. A. Odin. 1,738,822; Dec. 10.
- Clamping device for attaching conductors to supporting and tensioning members. J. Zagorski. 1,706,833; Mar. 26.
- Clamping device for jackets of presses. F. S. English. 1,704,563; Mar. 5.
- Clamping device for open-side planers. A. R. Cann. 1,704,332; Mar. 5.
- Clamping device for pot chucks, Work-. F. S. Floeter. 1,704,702; Mar. 12.
- Clamping device, Hand. W. C. De Roo and J. E. Larsh. 1,715,320; May 28.
- Clamping device, Plate-. H. F. Bechman. 1,707,108; Mar. 26.
- Clamping die blocks. C. A. Hudson. 1,741,302; Dec. 31.
- Clamping dog for lathes. H. H. Peacock. 1,731,216; Oct. 8.
- Clamping means for wheel lathes. K. Lurf. 1,733,892; Oct. 29.
- Clamping mechanism for milling machines, Ring-. G. W. Olson. 1,739,412; Dec. 10.
- Clamping mechanism, Plate-. W. Durrant. 1,711,377; Apr. 30.
- Clamping member for loose-leaf binders. H. G. Buchan. 1,716,515; June 11.
- Clamping off the male urethra, Device for elastically. M. Badrian. 1,728,322; Sept. 17.
- Clamping plates, Producing. O. Melaun. 1,735,776; Nov. 12.
- Clamping printing strips on a holder, Apparatus for. W. R. Allen. 1,734,707; Nov. 5.



- Clamping spider. M. B. Davis. 1,726,521; Aug. 27.  
Clamping together timbers, etc., Apparatus adapted for. T. C. Schenk. 1,714,139; May 21.  
Clamping tools in handpieces, Device for tightly. W. Pannwitz. 1,741,734; Dec. 31.  
Clapper box for planers. C. E. Linden and G. H. Langen. 1,707,553; Apr. 2.  
Clarification of liquids and recovery of solids therefrom. R. J. Marx. 1,717,111; June 11.  
Clarifier. P. J. Chappelle. 1,725,618; Aug. 20.  
Clarifier. C. V. Fuqua. 1,741,187; Dec. 31.  
Clarifier and thickener. H. G. Schwarz. 1,704,993; Mar. 12.  
Clarifying apparatus. F. A. Smith. 1,733,031; Oct. 22.  
Clarifying apparatus, Liquid-. H. Miller. 1,720,185; July 9.  
Clarifying liquids. E. P. Sheeran. 1,723,212; Aug. 6.  
Clarifying separator, Centrifugal. D. S. Paterson and G. B. Petsche. 1,714,986; May 28.  
Clarinet. H. Bettoney. 1,705,634; Mar. 19.  
Clasp: See—  
    Bracelet clasp. Lingerie clasp.  
    Collar clasp. Ribbon clasp.  
    Dental clasp. Safety clasp.  
    Fastener clasp. Shade-pull clasp.  
    Garment clasp. Shoe-lace clasp.  
    Garter clasp. Watch-bracelet clasp.  
    Hand-bag clasp. Wound clasp.  
    Jewelry clasp.  
Clasp. F. A. Ballou, jr., and E. Morehouse. 1,737,549; Dec. 3.  
Clasp. R. J. Carolin. 1,724,561; Aug. 13.  
Clasp. C. Chaunard. 1,701,970; Feb. 12.  
Clasp. A. Fricker. 1,702,472; Feb. 19.  
Clasp. C. B. Heitkemper. 1,711,848; May 7.  
Clasp. I. P. Johnson and G. S. McMullen. Des. 79,430; Sept. 17.  
Clasp. S. A. Johnson. 1,701,112; Feb. 5.  
Clasp. P. W. Jones. 1,700,679; Jan. 29.  
Clasp. P. W. Jones. 1,737,246; Nov. 26.  
Clasp. S. O. Myrberg. 1,702,360; Feb. 19.  
Clasp. S. O. Myrberg. 1,729,793; Oct. 1.  
Clasp. E. W. Quackenbush. 1,722,234; July 23.  
Clasp. C. J. Thim. 1,705,549; Mar. 19.  
Clasp and hook, Combined. L. C. and A. C. Prince. 1,703,952; Mar. 5.  
Clasp for a necklace. S. T. Wolf. Des. 80,207; Dec. 24.  
Clasp for necklaces, chains, lavalieres, etc. E. C. Grassman. 1,706,448; Mar. 26.  
Clasp for wrist-watch straps. A. Person. 1,719,849; July 9.  
Clasp for wrist watches, Bracelet. J. J. Felsenfeld. 1,738,767; Dec. 10.  
Clasp hook, Garment. L. W. Shields. Des. 78,540-1; May 14.  
Classification of materials by elutriation. Method and apparatus for the. L. Andrews. 1,705,351; Mar. 12.  
Classification system for pulverized materials. H. Hardinge. 1,721,594; July 23.  
Classifier. G. J. Fournier. 1,716,309; June 4.  
Classifier. A. H. Stebbins. 1,720,861; July 16.  
Classifier, Dust. H. Hardinge. 1,709,848; Apr. 23.  
Classifier suitable for use in the classification of powdered materials by elutriation, Vortex. L. Andrews. 1,701,942; Feb. 12.  
Classifying apparatus, Card-. J. B. Ruffalo. 1,702,748; Feb. 19.  
Clay carrier. E. W. Schellentrager and H. J. Kidd. 1,700,711; Jan. 29.  
Clay-pigeon trap. C. O. Carothers. 1,728,595; Sept. 17.  
Clays, Treatment of decolorizing. W. A. Raine and R. C. Pollock. 1,739,734; Dec. 17.  
Cleaner: See—  
    Air cleaner. Lima-bean cleaner.  
    Bobbin cleaner. Lint cleaner.  
    Boiler cleaner. Ins. cleaner.  
    Bowling-ball cleaner. Oil cleaner.  
    Comb cleaner. Pipe-bowl cleaner.  
    Cotton cleaner. Pipe cleaner.  
    Drain tile cleaner. Pneumatic cleaner.  
    Drill and hole cleaner. Pot cleaner.  
    Drum cleaner. Potato cleaner.  
    Elevator cleaner. Sidewalk cleaner.  
    Eraser cleaner. Suction cleaner.  
    Eyeglass cleaner. Terminal cleaner.  
    Fluid cleaner. Thread cleaner.  
    Flume-rack cleaner. Track cleaner.  
    Furnace cleaner. Tube cleaner.  
    Gauge-line cleaner. Vacuum cleaner.  
    Golf-ball cleaner. Wheel cleaner.  
    Grain cleaner. Window cleaner.  
    Gun cleaner. Windshield cleaner.  
    Henhouse cleaner.  
Cleaner. P. C. Marvin. 1,711,572; May 7.  
Cleaner and chaser, Pipe-thread. H. K. Hyrup. 1,700,409; Jan. 29.  
Cleaner and dirt dispenser, Shoe. G. A. Keenan. 1,711,116; Apr. 30.  
Cleaner and humidifier, Crank-case. H. A. Hawes. 1,733,154; Oct. 29.  
Cleaner and polish. R. Bates. 1,725,245; Aug. 20.  
Cleaner and polisher, Eyeglass. D. Brandfon. 1,712,325; May 7.  
Cleaner and separator, Air. J. A. Paasche. 1,706,676; Mar. 26.  
Cleaner for chicken houses. J. E. Blov. 1,728,524; Sept. 17.  
Cleaner for locomotives, Soot. O. E. Carlson. 1,707,844; Apr. 2.  
Cleaner for motor vehicles, Air. T. F. Gerken. 1,698,679; Jan. 8.  
Cleaner for oil engines, Smoke. C. G. Hawley. 1,723,034; Aug. 6.  
Cleaner for piston-ring grooves. E. R. Hellman. 1,715,289; May 28.  
Cleaner for player pianos, Music-roll. E. J. Eemail. 1,701,772; Feb. 12.  
Cleaner for printing presses, Offset-web. J. M. Trier. 1,700,865; Feb. 5.  
Cleaner for spoolers, Yarn. H. A. Davis. 1,703,851; Feb. 26.  
Cleaner for spoolers, Yarn. W. I. Stimpson. 1,703,847; Feb. 26.  
Cleaner or wiper for meter glasses. E. Allen. 1,710,563; Apr. 23.  
Cleaning and buffing machine, Air-bag. J. E. Johnson. 1,735,903; Nov. 19.  
Cleaning and composition for use therein, Dry. L. Hager and J. Popperman. 1,710,975; Apr. 30.  
Cleaning and conditioning device for internal-combustion engines, Charge. E. S. Bursley and A. P. Trask. 1,703,867; Mar. 5.  
Cleaning and greasing machine, Pan. A. Graf. 1,738,240; Dec. 3.  
Cleaning and massaging device. A. A. Theodoropoulos. 1,741,962; Dec. 31.  
Cleaning and/or annealing metal. N. V. Hybinette. 1,704,086; Mar. 5.  
Cleaning and polishing automobiles, Apparatus for use in. L. J. Wilde and B. K. Gillespie. 1,713,014; May 14.  
Cleaning and polishing composition. M. L. Fairbairn and G. W. Wright. 1,733,299; Oct. 29.  
Cleaning and polishing fibers, Method and machine for. J. Baldinger. 1,704,877; Mar. 12.  
Cleaning and polishing machine, Boot. N. Martinez. 1,735,771; Nov. 12.  
Cleaning and polishing machine, Fruit. L. H. Larsen. 1,706,577; Mar. 26.  
Cleaning and precooking vegetables for shipment. J. W. and T. J. Bell. 1,708,253; Apr. 9.  
Cleaning and remodeling machine, Hat. S. D. Franko. 1,707,605; Apr. 2.  
Cleaning and replacing machine, Ballast. J. G. Beck and V. F. Blakeslee. 1,710,963; Apr. 30.  
Cleaning and scale-removing device, Tube. L. Taricco. 1,705,451; Mar. 12.  
Cleaning and scouring device. O. S. Case. 1,741,223; Dec. 31.  
Cleaning and separating vegetables for canning. L. C. Gebbing and J. F. Denman. 1,708,057; Apr. 9.  
Cleaning and sorting machine, Pea. G. J. Olney. 1,728,076; Sept. 10.  
Cleaning and washing device. S. S. Halliburton. 1,698,227; Jan. 8.  
Cleaning apparatus. D. W. Feltel. 1,702,821; Feb. 19.  
Cleaning apparatus. J. H. Reinhardt. 1,701,864; Feb. 12.  
Cleaning apparatus and motor therefor, Windshield. S. Lippert. 1,717,699; June 18.  
Cleaning apparatus, Bottle. J. R. Gruetter. 1,734,463; Nov. 5.  
Cleaning apparatus, Bottle. C. H. Loew. 1,700,944; Feb. 5.  
Cleaning apparatus, Bottle. H. F. Stock. 1,729,193; Sept. 24.  
Cleaning apparatus, Dry-. M. D. Hirst. 1,697,766-7; Jan. 1.  
Cleaning apparatus, Dry-. O. Redmond. 1,713,979; May 21.  
Cleaning apparatus, Dry-. A. Traube. 1,740,716; Dec. 24.  
Cleaning apparatus, Fish-tray-. J. E. Mitchell. 1,698,059; Jan. 8.  
Cleaning apparatus, Pneumatic. R. P. Sweeny. 1,724,625; Aug. 13.  
Cleaning apparatus, Suction. B. Dansby and H. D. Smith. 1,701,996; Feb. 12.  
Cleaning apparatus, Tooth-. W. Spiegel and A. Szalardi. 1,733,631; Oct. 29.  
Cleaning apparatus, Tube-. E. H. Markley. 1,704,364; Mar. 5.  
Cleaning appliance, Garment-. L. J. La Measure. 1,710,332; Apr. 30.  
Cleaning centrifugal separators, Apparatus for. H. Naess. 1,707,232; Apr. 2.  
Cleaning composition. M. McLean. 1,735,774; Nov. 12.  
Cleaning composition. S. T. Sherrick. 1,736,375; Nov. 19.  
Cleaning composition. C. W. Stuart. 1,707,031; Mar. 26.  
Cleaning composition containing isopropyl alcohol. E. F. Heydt. 1,723,169; Aug. 6.  
Cleaning composition with a fluorescent concentration indicator. L. H. Englund. Re17,383; July 30.  
Cleaning compound. S. B. Dewey, jr. 1,737,222; Nov. 26.  
Cleaning compound. J. Takalay and W. Holzberg. 1,735,480; Nov. 12.  
Cleaning compounds, Making. S. B. Dewey, jr. 1,737,223; Nov. 26.  
Cleaning crude oil, Process of and mixture for. W. L. Palmer. 1,699,374; Jan. 15.  
Cleaning device. F. E. Comstock. 1,716,031; June 4.



- Cleaning device. L. O. Corkran. 1,707,846; Apr. 2.  
 Cleaning device. P. Grayson. 1,738,993; Dec. 10.  
 Cleaning device. A. S. Kux. 1,737,855; Dec. 3.  
 Cleaning device. T. A. Olson. 1,718,179; June 18.  
 Cleaning device. D. C. Williams. 1,716,018; June 4.  
 Cleaning device, Air-. C. R. Short and A. L. Cash. Re17,425; Sept. 3.  
 Cleaning device, Battery-connector-. V. V. Vaughn. 1,710,127; Apr. 23.  
 Cleaning device, Belt-. E. Lunn. 1,704,750; Mar. 12.  
 Cleaning device, Belt-. E. Lunn. 1,720,137; July 9.  
 Cleaning device, Car-. G. A. Macready and W. B. Hemme. 1,697,534; Jan. 1.  
 Cleaning device, Card-. E. H. Rooney. 1,732,860; Oct. 22.  
 Cleaning device for abrading surfaces. M. A. Robin. 1,707,067; Mar. 26.  
 Cleaning device for eyeglass lenses. J. J. Kilbride. 1,708,728; Apr. 9.  
 Cleaning device for measuring cylinders. W. H. Parker. 1,696,969; Jan. 1.  
 Cleaning device for paper-making machines, Screen-. C. H. Dupuis. 1,719,969; July 9.  
 Cleaning device for railway cars. A. H. Leschke. 1,740,546; Dec. 24.  
 Cleaning device for windows or the like. P. Bernstein. 1,730,030; Oct. 1.  
 Cleaning device, Glove-. J. J. Tierney. 1,736,679; Nov. 19.  
 Cleaning device, Golf-ball-. H. D. Day. 1,702,203; Feb. 12.  
 Cleaning device, Nail. F. D. Warren. 1,730,256; Oct. 1.  
 Cleaning device, Saxophone-. A. Romao. 1,730,785; Oct. 8.  
 Cleaning device, Screen-. A. T. Hedfelt. 1,734,255; Nov. 5.  
 Cleaning device, Smoke-. F. Pavlik. 1,725,100; Aug. 20.  
 Cleaning device, Stovepipe-. V. C. Baird. 1,735,488; Nov. 12.  
 Cleaning device, Window-. C. A. Dies. 1,727,277; Sept. 3.  
 Cleaning device, Window-. A. Shapiro. 1,710,079; Apr. 23.  
 Cleaning device, Windshield-. R. S. Blair. 1,729,025; Sept. 24.  
 Cleaning driers and apparatus therefor. C. E. Tilley. 1,727,843; Sept. 10.  
 Cleaning fabrics. F. H. McBerty. 1,715,855; June 4.  
 Cleaning fabrics, Apparatus for. H. Klein. 1,723,514; Aug. 6.  
 Cleaning firearms. W. J. Huff. 1,719,933; July 9.  
 Cleaning gear cases and their contents. L. C. Wilderman. 1,716,288; June 4.  
 Cleaning golf balls and the like, Device for. H. G. Rennie. 1,702,172; Feb. 12.  
 Cleaning implement. H. Cave, C. P. Manning, and E. S. Sargent. 1,724,453; Aug. 13.  
 Cleaning implement. H. Cave and W. H. Rudolph. 1,703,086; Feb. 26.  
 Cleaning implement. I. H. Spencer. 1,727,524; Sept. 10.  
 Cleaning intestines. R. Stohrer. 1,723,714; Aug. 6.  
 Cleaning linotype matrices. W. Dunklin. 1,725,785; Aug. 27.  
 Cleaning lubricant cases of engines, Apparatus for. W. L. Osborne. 1,702,702-3; Feb. 19.  
 Cleaning machine. F. Burtt. 1,712,449; May 7.  
 Cleaning machine. R. P. Habel. 1,721,444; July 16.  
 Cleaning machine. K. C. Jones. 1,737,115; Nov. 26.  
 Cleaning machine. J. R. Mitchell. 1,717,577; June 18.  
 Cleaning machine. H. B. Scott. 1,723,256; Aug. 6.  
 Cleaning machine, Beam-. G. W. Martin. 1,740,933; Dec. 24.  
 Cleaning machine, Bobbin-. D. R. Senn. 1,711,429; Apr. 30.  
 Cleaning machine, Carpet-. P. J. Shampay. 1,738,541; Dec. 10.  
 Cleaning machine, Dry-. C. F. Gregg. 1,709,012; Apr. 16.  
 Cleaning machine, Fiber-. F. P. Gardner. 1,741,765; Dec. 31.  
 Cleaning machine, Fiber-. C. L. Hannold. 1,700,161; Jan. 29.  
 Cleaning machine, Film-. A. S. Dworsky. 1,716,878; June 11.  
 Cleaning machine, Street-. E. T. Birdsall. 1,733,523; Oct. 29.  
 Cleaning machine, Tin-plate-. S. E. Diescher. 1,705,177; Mar. 12.  
 Cleaning mechanism, Grain-. A. B. Welty. 1,737,318; Dec. 3.  
 Cleaning metal, Apparatus for. C. B., and H. A. Higgins and J. Tyler. 1,714,668; May 28.  
 Cleaning metal surface. H. Adler. 1,734,706; Nov. 5.  
 Cleaning method and means. W. D. Reid. 1,705,998; Mar. 19.  
 Cleaning of metals, etc. G. D. Chamberlain. 1,719,167; July 2.  
 Cleaning oil pipe lines. C. R. Hall. 1,736,440; Nov. 19.  
 Cleaning outfit, Silver-. K. Waples. 1,697,622; Jan. 1.  
 Cleaning out machine. W. H. Miller. 1,730,084; Oct. 1.  
 Cleaning pad. C. Field. 1,697,499; Jan. 1.  
 Cleaning plant fibers. F. Mertz. 1,729,396; Sept. 24.  
 Cleaning plate-glass-grinding tables or cars, Apparatus for. J. Green. 1,705,915; Mar. 19.  
 Cleaning polishing wheels and the like. J. J. Cunningham. 1,712,751; May 14.  
 Cleaning process. A. E. Hatfield and E. E. Alliot. 1,728,343; Sept. 17.  
 Cleaning radiators, Process and apparatus for. J. M. Robinson. 1,701,824; Feb. 12.  
 Cleaning rod for guns. M. J. Petersen. 7,698,803; Jan. 15.  
 Cleaning sewers and pipes, Apparatus for. G. O. A. Liebau. 1,717,986; June 18.  
 Cleaning, sorting, and weighing machine. H. A. Murray. 1,702,219; Feb. 12.  
 Cleaning spinning devices for the manufacture of artificial threads, Method and apparatus for. E. Elsaesser and H. Kempf. 1,721,591; July 23.  
 Cleaning tank. C. H. Slaughter. 1,739,695; Dec. 17.  
 Cleaning the cathode mercury in large rectifiers, Device for. W. Nehls. 1,729,450; Sept. 24.  
 Cleaning tobacco pipes by means of water under pressure, Device for. E. Von Arz. 1,730,022; Oct. 1.  
 Cleaning well-casing screens, Apparatus for. H. S. Smith. 1,736,017; Nov. 19.  
 Cleaning wire, Apparatus for. A. deGraaff. 1,731,843; Oct. 15.  
 Clean-out device. H. E. McConnell. 1,730,467; Oct. 8.  
 Clean-out system for dairy barns and the like. C. G. Yarn. 1,699,175; Jan. 15.  
 Cleanser. F. S. Vivas. 1,733,842; Oct. 29.  
 Cleansing and preparing for storage and market, fruit after harvesting. I. F. Laucks, H. P. Banks, and H. F. Rippey. 1,732,816; Oct. 22.  
 Cleansing apparatus, Pulp-fiber-. M. Dezurik. 1,700,925; Feb. 5.  
 Cleansing appliance, Inking-surface. J. Schultz. 1,700,518; Jan. 29.  
 Cleansing composition. I. W. Lanham. 1,724,289; Aug. 13.  
 Cleansing composition. A. B. Strawther. 1,714,054; May 21.  
 Cleansing heavy woolen fabrics, etc. G. Woelfel. 1,711,162; Apr. 30.  
 Clearance mechanism for misaligned articles. R. L. Wilcox. 1,734,819; Nov. 5.  
 Clearing and purifying water for steam boilers of all kinds. J. Ostertag. 1,700,716; Jan. 29.  
 Clearing device for water racks. E. L. Broome. 1,698,387; Jan. 8.  
 Clearing mechanism for warpers or similar machines. J. A. Skedgell. 1,719,814; July 2.  
 Clear-vision apparatus for rapid-running vehicles or ships. T. Kishimoto. 1,726,395; Aug. 27.  
 Clevis, Hinged. H. H. Schluter. 1,726,366; Aug. 27.  
 Clevis pin. W. F. Kuhl. 1,719,891; July 9.  
 Click box. R. Hohnhorst and G. Langen. 1,707,476; Apr. 2.  
 Clicker block. W. L. Harroun. 1,708,308; Apr. 9.  
 Climbing device. R. Laborda. 1,731,052; Oct. 8.  
 Clinching press. C. P. Wilson. 1,735,625; Nov. 12.  
 Clinker cooler. R. W. Ryder. 1,737,061; Nov. 26.  
 Clinker fork. H. W. Grosnickle. 1,736,196; Nov. 19.  
 Clinker hook, Replaceable. A. Schau. 1,741,587; Dec. 31.  
 Clip: See—  
   Attaching clip. Ice-retaining clip.  
   Band clip. Lath clip.  
   Battery clip. Metal clip.  
   Cable clip. Paper clip.  
   Cartridge clip. Pencil clip.  
   Chain clip. Pen or pencil name clip.  
   Chain snap-on clip. Pipe clip.  
   Clamping clip. Rope-holding clip.  
   Contact clip. Safety clip.  
   Detachable clip. Spring clip.  
   Electrical connection clip. Supporting clip.  
   Furring clip. Tenter clip.  
   Glazing clip. Terminal clip.  
   Hair clip. Tie clip.  
   Hairpin clip. Wall clip.  
   Hair-waver clip. Wire clip.  
   Holding clip. Writing-pen clip.  
 Clip. M. Eichenblatt. 1,740,164; Dec. 17.  
 Clip. J. R. Klin. 1,698,502; Jan. 8.  
 Clip. C. E. Marshall. 1,719,895; July 9.  
 Clip and cap structure for fountain pens. W. F. Benson. 1,717,001; June 11.  
 Clip-bending die. H. M. Young. 1,701,250; Feb. 5.  
 Clip comb. H. H. Sunvold. 1,702,283; Feb. 19.  
 Clip for automobile headlight indicators, Retaining. A. R. Culver. 1,696,904; Jan. 1.  
 Clip for cable ends, Terminal. B. M. Smarr. 1,703,325; Feb. 26.  
 Clip for gratings. H. Nagin. 1,707,533; Apr. 2.  
 Clip for holding type, Slotted. A. S. Pope. 1,716,086; June 4.  
 Clip for ladies' belts. R. Slote. Des. 78,235; Apr. 9.  
 Clip for laminate springs. A. F. Shore. 1,727,019; Sept. 3.  
 Clip machine. M. Roth. 1,719,561; July 2.  
 Clip or fastener. W. H. Schaefer and G. Eckert. 1,741,039; Dec. 24.  
 Clipper and vibrator, Interchangeable. F. Sanders. 1,719,140; July 2.  
 Clipper blade. A. J. Dremel. 1,729,332; Sept. 24.  
 Clipper, Electric hair. A. J. Dremel. 1,701,148; Feb. 5.  
 Clipper, Grass. R. F. Huxman. 1,741,172; Dec. 31.  
 Clipper, Hair. F. Bauer. 1,705,552; Mar. 19.  
 Clipper, Hair. J. Dean. 1,729,096; Sept. 24.  
 Clipper, Hair. J. Dean. 1,729,372; Sept. 24.  
 Clipper, Hair. J. Kautz. 1,735,766; Nov. 12.  
 Clipper, Magnetic hair. A. M. Lutes. 1,708,315; Apr. 9.  
 Clipper, Nail. M. Schnefel. 1,702,137; Feb. 12.  
 Clipping device. C. A. Huff. 1,736,041; Nov. 19.  
 Clips, Manufacturing. C. H. Baldwin. 1,708,115; Apr. 9.  
 Clock. B. T. Isaacson. 1,720,902; July 16.  
 Clock. S. Mazur. 1,700,506; Jan. 29.



- Clock, Alarm. J. F. Dunn. 1,731,846; Oct. 15.  
 Clock, Alternating-current. L. Hammond. 1,719,805; July 2.  
 Clock, Automobile. R. Watson. 1,712,013; May 7.  
 Clock case. F. L. Castro. Des. 78,007; Mar. 19.  
 Clock case. M. O. Doolittle. Des. 78,090-1; Mar. 26.  
 Clock case. C. R. Gains. Des. 79,916; Nov. 12.  
 Clock case. A. T. Goldfield. Des. 77,596; Jan. 29.  
 Clock case. A. T. Goldfield. Des. 79,514; Oct. 1.  
 Clock case. C. W. Hallberg. Des. 77,483; Jan. 15.  
 Clock case. O. A. Hayner. Des. 77,833; Feb. 26.  
 Clock case. A. M. Holstein. Des. 78,956-61; June 18.  
 Clock case. A. M. Holstein. Des. 78,927-8; July 9.  
 Clock case. A. M. Holstein. Des. 79,233; Aug. 20.  
 Clock case. A. M. Holstein. Des. 79,556; Oct. 8.  
 Clock case. A. Levy. Des. 78,114; Mar. 26.  
 Clock case. J. L. Mott. Des. 77,428-9; Jan. 8.  
 Clock case. C. E. Ogden. Des. 79,743-8; Oct. 29.  
 Clock case. G. Pike. Des. 78,653; May 28.  
 Clock case. M. Salinger. Des. 77,651; Feb. 5.  
 Clock case. A. F. Saunders. Des. 79,388-90; Sept. 10.  
 Clock case. N. Shure. Des. 77,564; Jan. 22.  
 Clock case. N. L. Stevens. Des. 77,924; Mar. 5.  
 Clock case or article of analogous nature. L. Zweig. Des. 79,313; Aug. 27.  
 Clock case, Pyramid. P. and F. Lux. Des. 79,828; Nov. 5.  
 Clock casing. H. P. Dorn. Des. 78,687; June 4.  
 Clock contact, Frictionless. H. E. Warren. 1,738,467; Dec. 3.  
 Clock drive, Electric. R. Michl. 1,728,692; Sept. 17.  
 Clock, Electric table-lamp alarm. E. Keller. Des. 77,776; Feb. 19.  
 Clock, Electric self-winding master time. E. A. Meyer. 1,705,025; Mar. 12.  
 Clock, Electrical. A.-L. Jeanneret fils. 1,728,338; Sept. 17.  
 Clock, Electrically-wound. W. F. Eyles. 1,726,734; Sept. 3.  
 Clock, Electrically-wound. C. I. Hall. 1,734,902; Nov. 5.  
 Clock, Electrically-wound. R. H. Wilmeth. 1,724,155; Aug. 13.  
 Clock hand or similar article. M. Salinger. Des. 80,052; Dec. 3.  
 Clock lock, Instrument-board. E. C. Miller and V. E. Shonwalter. 1,720,740; July 16.  
 Clock, Perch. C. G. Richardson. 1,742,170; Dec. 31.  
 Clock, Secondary. J. A. Webb. 1,732,146; Oct. 15.  
 Clock, Self-winding. F. C. Herbermann. 1,715,500; June 4.  
 Clock-setting mechanism. J. O. Nelson. 1,720,685; July 16.  
 Clock, Stereopticon. G. Willens. 1,711,296; Apr. 30.  
 Clock-synchronizing mechanism. R. M. Wood. 1,723,964; Aug. 6.  
 Clock system, Pneumatic. J. W. Bryce. 1,730,448; Oct. 8.  
 Clock system, Synchronizing. J. W. Bryce and C. H. Getz. 1,740,330; Dec. 17.  
 Clock system, Synchronizing. L. S. Harrison. 1,730,504; Oct. 8.  
 Clock, Watchman's. J. F. Rutt. 1,699,161; Jan. 15.  
 Clock, Watchman's time. A. Beyer. 1,716,477; June 11.  
 Clock winding mechanism, Electric. F. Lux. 1,733,689; Oct. 29.  
 Clock with automatically-traveling advertising surface and annular gap for the clock hands. A. Teckenburg. 1,731,401; Oct. 15.  
 Clocks, Alarm mechanism for. A. J. Kollman. 1,730,276; Oct. 1.  
 Clocks and watches, Center friction for. W. E. Porter. 1,741,952; Dec. 31.  
 Clocks, Switch for alarm. H. Green. 1,729,718; Oct. 1.  
 Close-range device. A. Penn. 1,738,481; Dec. 3.  
 Closet: See—  
   Compartment closet. Wardrobe closet.  
   Sanitary closet. Water-closet.  
 Closet. K. A. Wernle. 1,711,295; Apr. 30.  
 Closet bend. O. M. Redion. 1,733,823; Oct. 29.  
 Closet-bowl ventilator. L. E. Klemish and W. L. Lowe. 1,700,936; Feb. 5.  
 Closet connection. J. C. Cromwell. 1,703,725; Feb. 26.  
 Closet seat. J. O. Schulte. 1,697,663; Jan. 1.  
 Closet seat, Water-. G. F. Fisher. 1,697,973; Jan. 8.  
 Closet tank and cover. A. V. Lawton. 1,701,682; Feb. 12.  
 Closing and straightening tire-bead tape Apparatus for and method of. W. E. Van Lue. 1,740,050; Dec. 17.  
 Closing arrangement for individual motor-vehicle shelters. A. A. G. H. Terrisse. 1,731,327; Oct. 15.  
 Closing device and safety seal. F. Sanchez. 1,702,853; Feb. 19.  
 Closing device for all liquids, particularly for liquids used in automobiles. L. I. Poirmeur. 1,709,039; Apr. 16.  
 Closing device for containers made of aluminum or other soft metals. S. H. Larsen. 1,736,350; Nov. 19.  
 Closing device for hand baggage and cases and the like. H. Romanoff. 1,709,593; Apr. 16.  
 Closing means for discharge orifices. L. and J. Elrich. 1,737,301; Nov. 26.  
 Closing means for journal-box lids. L. W. Hostettler. 1,732,048; Oct. 15.  
 Closing mechanism for mine doors. A. J. Gurney. 1,729,719; Oct. 1.  
 Closing metallic packages, Method and apparatus for. D. George. 1,730,070; Oct. 1.  
 Closure. A. Adelson. 1,701,318; Feb. 5.  
 Closure. C. H. Bell. 1,718,940; July 2.  
 Closure. C. H. Bell. 1,720,358; July 9.  
 Closure. C. R. Crary. 1,734,563-4; Nov. 5.  
 Closure. V. G. Giraud. 1,735,430; Nov. 12.  
 Closure. H. L. Heiter. 1,720,551; July 9.  
 Closure. W. Y. Hutchins. 1,734,434; Nov. 5.  
 Closure. B. W. King. 1,722,802; July 30.  
 Closure. W. H. Knowles. 1,712,274; May 7.  
 Closure. W. C. Mills. 1,737,860; Dec. 3.  
 Closure. J. S. Reid. 1,720,347; July 9.  
 Closure. J. S. Reid. 1,720,349; July 9.  
 Closure. J. S. Reid. 1,736,173; Nov. 19.  
 Closure and decanting device for liquid containers, Combined. S. W. and N. C. Gadsden and C. H. Topham. 1,712,203; May 7.  
 Closure and gauge, Combined tank. R. A. Heilenday. 1,725,453; Aug. 20.  
 Closure and identification device, Combined. R. L. Stratford. 1,711,469; Apr. 30.  
 Closure and making the same. E. L. Greenewald. 1,698,993; Jan. 15.  
 Closure and pouring spout, Combined. H. Brucker. 1,741,972; Dec. 31.  
 Closure apparatus. C. F. Miller. 1,712,509; May 14.  
 Closure apparatus, Pressure. H. Fischer and L. Grodnitzky. 1,728,482; Sept. 17.  
 Closure bar for open bail members. I. R. Lederer. 1,709,179; Apr. 16.  
 Closure, Bottle. J. E. Chace. 1,697,716; Jan. 1.  
 Closure, Bottle. J. E. Chace. 1,733,939; Oct. 29.  
 Closure, Bottle. W. H. Jeffery. 1,700,227; Jan. 29.  
 Closure, Bottle. A. Kennerknecht. 1,707,524; Apr. 2.  
 Closure, Bottle. A. Lowy. 1,725,092; Aug. 20.  
 Closure, Bottle. F. H. Silverthorne. 1,737,273; Nov. 26.  
 Closure, Bottle. C. W. Tooke. 1,717,746; June 18.  
 Closure, Bottle and jar. N. L. Kirkland. 1,723,790; Aug. 6.  
 Closure, Box. S. C. Huffman. 1,697,360; Jan. 1.  
 Closure, Can. H. A. Manderson. 1,702,786; Feb. 19.  
 Closure, Can. C. L. Mueller. 1,727,247; Sept. 3.  
 Closure cap. A. C. Booth. 1,710,288; Apr. 23.  
 Closure cap. E. E. Drumm. 1,734,566; Nov. 5.  
 Closure cap. A. Ornberg. 1,742,090; Dec. 31.  
 Closure cap. A. C. Spahn. 1,739,659; Dec. 17.  
 Closure cap. S. N. Tevander. 1,713,858; May 21.  
 Closure, Container. E. L. Leinbach. 1,715,136; May 28.  
 Closure device. C. H. Bell. 1,716,024; June 4.  
 Closure device, Bottle-. J. Erhart, F. Lemberger, and A. Hehle. 1,724,466; Aug. 13.  
 Closure device for bottles and other containers. L. R. N. Carvalho. 1,712,102; May 7.  
 Closure disk and securing means therefor. L. T. Richey. 1,735,056; Nov. 12.  
 Closure disks, Method of and apparatus for producing paper-material. W. L. Wright. 1,707,107; Mar. 26.  
 Closure, Door. H. E. Sipe. 1,723,305; Aug. 6.  
 Closure fastener. J. E. Schell, Jr. 1,719,312; July 2.  
 Closure, Flexible. R. H. Binns. 1,701,555; Feb. 12.  
 Closure for automobiles, Winter or weather. E. B. Nathan. 1,716,830-1; June 11.  
 Closure for bedding. R. Suto. 1,710,520; Apr. 23.  
 Closure for bottles and jars. J. E. Thebaud. 1,733,322; Oct. 29.  
 Closure for bottles and other containers. R. H. Carpmal. 1,732,834; Oct. 22.  
 Closure for bottles and the like. J. B. Busch, sr. 1,706,209; Mar. 19.  
 Closure for bottles, jars, and the like. E. Goltstein. 1,709,260; Apr. 16.  
 Closure for bottles, jars, and the like receptacles. T. Sutcliffe. 1,699,410; Jan. 15.  
 Closure for cans and like receptacles. R. McKee. 1,715,169; May 28.  
 Closure for collapsible tubes. A. Foltis. 1,702,998; Feb. 19.  
 Closure for collapsible tubes. A. E. Smith. 1,738,080; Dec. 3.  
 Closure for collapsible tubes. H. C. Stevenson. 1,716,802; June 11.  
 Closure for containers. T. E. Aud. 1,703,712; Feb. 26.  
 Closure for containers. C. R. Crary. 1,734,367; Nov. 5.  
 Closure for containers. J. H. Gruver. 1,741,108; Dec. 24.  
 Closure for containers. F. R. H. Marshall. 1,726,080; Aug. 27.  
 Closure for containers. H. A. Pernot. 1,718,069; June 18.  
 Closure for centrifugal extractors. B. E. Getz. 1,725,185; Aug. 20.  
 Closure for cooking utensils, Lidded. L. H. Wisenor. 1,724,244; Aug. 13.  
 Closure for dispensing containers. E. C. Amsden. 1,738,220; Dec. 3.  
 Closure for flood-light projectors. P. M. Hotchkiss. 1,735,248; Nov. 12.  
 Closure for fuel tank. A. M. Malluk. 1,727,476; Sept. 10.  
 Closure for ice bags, Lock. A. R. Soderquist. 1,712,361; May 7.  
 Closure for jars. T. L. Taliaferro. 1,740,881; Dec. 24.  
 Closure for jars, Dispensing. L. T. Crabbe. 1,733,053; Oct. 22.  
 Closure for lighting units, Dustproof. L. C. Doane. 1,701,176; Feb. 5.  
 Closure for milk bottles. F. W. Chausse. 1,719,212; July 2.  
 Closure for milk bottles, glass jars, and the like, Gasketed side. A. Moore. 1,700,743; Feb. 5.



- Closure for mixing machines, Discharging. L. and J. Eirich. 1,728,598; Sept. 17.
- Closure for mucilage receptacle. L. S. Kositchek. 1,724,366; Aug. 13.
- Closure for paste tubes. H. C. Pringle. 1,738,728; Dec. 10.
- Closure for railroad cars. J. Down and J. A. Ritter. 1,710,046; Apr. 23.
- Closure for receptacles. M. Levin. 1,740,184; Dec. 17.
- Closure for receptacles. E. Schwaller. 1,713,982; May 21.
- Closure for receptacles, Self-sealing. A. Hammerstein. 1,720,788; July 16.
- Closure for recipients. J. A. De Longchamp. 1,703,575; Feb. 26.
- Closure for rotatable receptacles, Door. M. F. Beetham and R. H. Moore. Re17,490; Nov. 19.
- Closure for shaft bearings. W. V. Randall. 1,734,691; Nov. 5.
- Closure for sheet-metal receptacles. C. H. Riegel. 1,723,516; Aug. 6.
- Closure for switch boxes. C. F. Gustin. 1,728,271; Sept. 17.
- Closure for tank openings. E. A. Hoffman. 1,735,683; Nov. 12.
- Closure for tanks, Lockable. A. M. Malluk and S. R. Bell. 1,701,816; Feb. 12.
- Closure for tumblers, jars, and other containers. H. Ingram. 1,710,984; Apr. 30.
- Closure for uniting edged bodies. H. S. Rauh. 1,724,413; Aug. 13.
- Closure, Hogshead. H. O. Schoolfield. 1,709,409; Apr. 16.
- Closure, Jar. L. R. N. Carvalho. 1,713,948; May 21.
- Closure, Lacing. W. L. Pipes. 1,713,714; May 21.
- Closure, Lightproof window. M. Hirschman. 1,737,885; Dec. 3.
- Closure means for discharge openings of plumbing fixtures. L. H. Stead. 1,704,023; Mar. 5.
- Closure means for paper bags, Reenforcing. J. Duvall. 1,736,396; Nov. 19.
- Closure member for valve stems. A. E. Bronson. 1,699,277; Jan. 15.
- Closure, Milk-bottle. H. O. Varrieur. 1,724,810; Aug. 13.
- Closure-operating means. O. Vanderzee. 1,736,103; Nov. 19.
- Closure operator. O. C. Johnson. 1,740,020; Dec. 17.
- Closure, Pipe. R. M. Wilson. 1,716,334; June 4.
- Closure, Receptacle. S. C. Endicott. 1,715,452; June 4.
- Closure, Receptacle. L. G. Lange. 1,712,220; May 7.
- Closure, Receptacle. H. K. Lorentzen. 1,697,074; Jan. 1.
- Closure, Receptacle. A. E. Smith. 1,739,871; Dec. 17.
- Closure, Refrigerator. R. L. Shipman. 1,726,631; Sept. 3.
- Closure structure. G. A. Proctor. 1,709,948; Apr. 23.
- Closure structure, Protective. G. R. Boomer and W. S. Littell. 1,702,532; Feb. 19.
- Closure, Tube. G. Hawkins. 1,739,303; Dec. 10.
- Closure, Tube. A. E. Smith. 1,739,922; Dec. 17.
- Closure, Window. F. S. Zaissner. 1,723,594; Aug. 6.
- Closures, Applying can. P. E. Pearson and M. L. Dodge. 1,740,872; Dec. 24.
- Closures for containers. Method of and apparatus for manufacturing. W. A. Stephens. 1,725,601; Aug. 20.
- Closures of bottles, containers or the like, Cap-feeding mechanism for. W. A. Stephens. 1,725,602; Aug. 20.
- Closures of collapsible tubes and other containers, Retaining device for the. J. D. Smith. 1,732,571; Oct. 22.
- Cloth board and its manufacture. J. C. Dunn. 1,737,361; Nov. 26.
- Cloth clamp. E. Lebovitz. 1,706,670; Mar. 26.
- Cloth cutter. W. Fleischer. 1,729,510; Sept. 24.
- Cloth cutter. T. E. Langston. 1,706,925; Mar. 26.
- Cloth cutter. E. Lebovitz. 1,714,382; May 21.
- Cloth-cutting machine. W. L. Moss. 1,742,047; Dec. 31.
- Cloth expander. H. Hadwin. 1,738,700; Dec. 10.
- Cloth-folding machine. W. E. Harmon and J. E. Windle. 1,716,168; June 4.
- Cloth having a felt layer, Card. W. Otto. 1,731,148; Oct. 8.
- Cloth on a circular area, Apparatus for and process of piling roped. J. J. Lyth. 1,731,429; Oct. 15.
- Cloth-piling machine. J. J. Lyth. 1,710,544; Apr. 23.
- Cloth-piling machine. W. F. Twaddle. 1,704,066; Mar. 5.
- Cloth spreader or expander. A. Isherwood. 1,697,830; Jan. 1.
- Cloth spreader or expander. A. Isherwood. 1,719,375; July 2.
- Cloth, Waterproof wrapping. C. H. Panthen. 1,729,681; Oct. 1.
- Clothes and hat hanger. G. H. Knostman. 1,706,887; Mar. 26.
- Clothes-bag hanger. P. Date. 1,706,873; Mar. 26.
- Clothes drier. W. J. Coulter. 1,741,289; Dec. 31.
- Clothes drier. E. Desrosiers. 1,733,485; Oct. 29.
- Clothes drier. J. Heggen. 1,723,350; Aug. 6.
- Clothes drier. J. P. High. 1,730,936; Oct. 8.
- Clothes drier. J. Judelson. 1,700,439; Jan. 29.
- Clothes drier, Electric. J. S. Shanks. 1,702,009; May 7.
- Clothes drier, Elevator. H. C. Binkele. 1,714,343; May 21.
- Clothes drier, Elevator. H. C. Binkele. 1,722,191; July 23.
- Clothes drier, Extension. L. Molnar. 1,710,468; Apr. 23.
- Clothes-drying rack. S. P. Nelson. 1,713,673; May 21.
- Clothes hanger. H. B. Edwards. 1,707,221; Apr. 2.
- Clothes hanger. W. L. Lindgren. 1,716,894; June 11.
- Clothes hanger. F. J. Mooney. 1,740,899; Dec. 24.
- Clothes hanger. F. S. Saxton. 1,726,316; Aug. 27.
- Clothes hanger. R. West. 1,714,201; May 21.
- Clothesline. T. J. James. 1,719,268; July 2.
- Clothesline. H. Tatum. 1,712,409; May 7.
- Clothesline attachment. S. A. Winett. 1,736,868; Nov. 26.
- Clothesline bracket. E. T. Dunlap. 1,740,727; Dec. 24.
- Clothesline clamp. O. E. Malmberg. 1,726,306; Aug. 27.
- Clothesline, Collapsible or pinless. J. A. Shook. 1,722,685; July 30.
- Clothesline connector. O. J. Shaw. 1,703,784; Feb. 26.
- Clothesline hanger. A. Pawelski. 1,716,282; June 4.
- Clothesline, Pinless. L. E. Holcomb. 1,712,345; May 7.
- Clothesline pulley. M. Rachlin. 1,725,369; Aug. 20.
- Clothesline reel. A. A. Makinen. 1,728,800; Sept. 17.
- Clothesline reel. E. C. Warner. 1,707,378; Apr. 2.
- Clothesline reel and clothespin carrier, Combination. W. Choinski. 1,718,777; June 25.
- Clothesline-supporting means. J. T. Pilkington. 1,699,630; Jan. 22.
- Clothesline tightener. M. Bocchino. 1,737,406; Nov. 26.
- Clothesline tightener. J. M. Meredith. 1,737,195; Nov. 26.
- Clothesline tightener. J. F. Quigley. 1,713,447; May 14.
- Clothesline tightener. F. B. Simpson. 1,724,976; Aug. 20.
- Clotheslines, Take-up device for. A. H. Hempel. 1,730,887; Oct. 8.
- Clothes peg. J. P. Nowotnick. 1,724,141; Aug. 13.
- Clothespin. L. A. Brown. 1,710,342; Apr. 23.
- Clothespin. H. R. Dills. 1,729,930; Oct. 1.
- Clothespin. C. W. McKinney. 1,700,069; Jan. 22.
- Clothespin. J. R. Nolan. 1,697,250; Jan. 1.
- Clothespin. W. M. Sherburne. 1,720,296; July 9.
- Clothespin. S. Whitmore. 1,699,037; Jan. 15.
- Clothespin and making the same, Reinforced. S. Bower. 1,699,343; Jan. 15.
- Clothespin bag. C. Cunningham. 1,715,994; June 4.
- Clothespin bag. M. L. Myers. 1,700,686; Jan. 29.
- Clothespin, Wire. L. F. Keyser. 1,725,986; Aug. 27.
- Clothes prop, Adjustable. H. G. Knoch. 1,731,382; Oct. 15.
- Clothes rack. E. J. Bloom. 1,738,516; Dec. 10.
- Clothes rack. G. S. Griner. 1,732,162; Oct. 15.
- Clothesrack. J. S. Nixon. 1,724,218; Aug. 13.
- Clothes reel. A. J. Frantz. 1,727,761; Sept. 10.
- Clothes steamer. F. E. Jones. 1,732,473; Oct. 22.
- Clothes stick. E. C. Dunn. 1,712,652; May 14.
- Clothes stick. T. E. Foster. 1,731,654; Oct. 15.
- Clothes tree. J. S. Hoffmire. 1,718,691; June 25.
- Clothes washer. H. B. Mogk. 1,711,422; Apr. 30.
- Clothes wringer. L. A. Hersh. 1,716,055; June 4.
- Clothes wringer. L. Judelson. 1,726,301; Aug. 27.
- Clothes wringer. G. R. Keltie. 1,710,224; Apr. 23.
- Clothes wringer. D. A. Mooney and O. Jaeger. 1,706,247; Mar. 19.
- Clothes wringer. J. R. Ritchie. 1,713,556; May 21.
- Clothes wringer. W. Wright and O. Jaeger. 1,707,835; Apr. 2.
- Clothes-wringer frame. E. V. Godfrey. Des. 78,284; Apr. 16.
- Clothing, Card. F. Achilles. 1,741,597; Dec. 31.
- Clothing for opening, breaking, preparing, or carding fibrous substances, Metallic. A. L. Mowat and E. Ingham. 1,707,738; Apr. 2.
- Cloud or fog sounding device. G. P. Luckey. 1,730,080; Oct. 1.
- Club, Police. J. D. Capriles. 1,700,023; Jan. 22.
- Club, Policeman's. H. E. Hodson. 1,716,131; June 4.
- Club, Police. F. J. Lord. 1,700,440; Jan. 29.
- Clutch. C. F. Anderson and R. W. Janda. 1,711,338; Apr. 30.
- Clutch. F. L. Borchert. 1,725,562; Aug. 20.
- Clutch. G. W. Borg. 1,706,435; Mar. 26.
- Clutch. E. P. Bullard, Jr., and G. F. Kolb. 1,717,833; June 18.
- Clutch. A. A. Byerlein. 1,707,843; Apr. 2.
- Clutch. G. C. Carhart. 1,732,965; Oct. 22.
- Clutch. J. S. Cartwright and T. Davey. 1,739,751; Dec. 17.
- Clutch. R. Chilton. 1,739,947; Dec. 17.
- Clutch. W. A. Chryst. 1,703,215; Apr. 9.
- Clutch. W. P. Coffman and C. M. Anglemeyer. 1,697,904; Jan. 8.
- Clutch. G. B. Coleman. 1,722,839; July 30.
- Clutch. N. W. Dorman. 1,706,600; Mar. 26.
- Clutch. W. T. Eaton. 1,739,390; Dec. 10.
- Clutch. J. Edgar. 1,703,101; Feb. 26.
- Clutch. S. Eliot. 1,741,688; Dec. 31.
- Clutch. F. T. Farmer. 1,719,881; July 9.
- Clutch. D. E. Gamble. 1,708,967; Apr. 16.
- Clutch. D. E. Gamble. 1,716,436; June 11.
- Clutch. D. E. Gamble. 1,734,767; Nov. 5.
- Clutch. O. A. Hokanson and J. F. Koca. 1,718,426; June 25.
- Clutch. I. B. Humphreys and G. H. Denton. 1,703,040; Feb. 19.
- Clutch. W. P. Immel and C. J. Martin. 1,716,229; June 4.
- Clutch. A. Laukhuff. 1,701,327; Feb. 5.
- Clutch. A. Marchev. 1,713,909; May 21.
- Clutch. W. E. Over. 1,721,500; July 16.
- Clutch. W. J. Pearmain. 1,712,676; May 14.
- Clutch. W. J. Pearmain. 1,724,361; Aug. 13.
- Clutch. W. J. Pearmain. 1,725,016; Aug. 20.
- Clutch. W. J. Pearmain. 1,731,791; Oct. 15.
- Clutch. E. C. Pfaff. 1,723,886; Aug. 6.
- Clutch. H. M. Ross. 1,701,934; Feb. 12.



- Clutch, A. H. Schloz and M. R. Hatch. 1,711,288; Apr. 30.  
 Clutch, B. L. Skinner. 1,703,788; Feb. 26.  
 Clutch, L. K. Snell. 1,700,860; Feb. 5.  
 Clutch, E. E. Wemp. 1,700,244; Jan. 29.  
 Clutch, E. E. Wemp. 1,707,034; Mar. 26.  
 Clutch, E. E. Wemp. 1,734,101; Nov. 5.  
 Clutch, C. J. Whitacre and A. G. Geistert. 1,703,650; Feb. 26.  
 Clutch, E. M. Wright. 1,714,748; May 28.  
 Clutch, Air-cooled. E. R. Gurney. 1,731,416; Oct. 15.  
 Clutch and brake, Combined. F. O. Beaulieu. 1,713,018; May 14.  
 Clutch and brake, Motor-vehicle. C. F. Jeffries. 1,698,056; Jan. 8.  
 Clutch and change-speed gear, Progressive. J. M. J. F. Meynier. 1,736,932; Nov. 26.  
 Clutch and driving means. R. W. Janda. 1,735,201; Nov. 12.  
 Clutch and stop mechanism. R. L. Lyons. 1,699,796; Jan. 22.  
 Clutch and the like. F. A. Joseph. 1,718,359; June 25.  
 Clutch arrangement for laundry machines. G. W. Dunham. 1,728,047; Sept. 10.  
 Clutch, Automatic. K. Kaisser. 1,730,890; Oct. 8.  
 Clutch, Automatic driving. H. W. Smith. 1,738,212; Dec. 3.  
 Clutch, Automatic overload. E. Ermold. 1,705,047; Mar. 12.  
 Clutch, Automatically - controlled. H. D. Colman. 1,734,998; Nov. 12.  
 Clutch, Ball or roller. W. Miller. 1,735,125; Nov. 12.  
 Clutch, Centrifugal. W. R. Uggla and A. G. F. Wallgren. 1,733,703; Oct. 29.  
 Clutch, Centrifugal friction. K. Kaisser. 1,730,937; Oct. 8.  
 Clutch, Centrifugal friction. K. J. Wersäll. 1,715,806-7; June 4.  
 Clutch, Centrifugally-operated. M. H. Gateley. 1,720,952; July 16.  
 Clutch, Clothesline-prop. F. C. Wilson. 1,732,627; Oct. 22.  
 Clutch, Compound. H. A. Knox. 1,736,267; Nov. 19.  
 Clutch construction. E. E. Wemp. 1,717,534; June 18.  
 Clutch construction, Industrial-. C. B. Spase. 1,731,064; Oct. 8.  
 Clutch-control mechanism, Automatic. C. L. Putney. 1,740,265; Dec. 17.  
 Clutch device. J. Aiken. 1,726,329; Aug. 27.  
 Clutch device. S. Halvorsen. 1,715,916; June 4.  
 Clutch device, Automotive. J. R. Bartholomew. 1,707,246; Apr. 2.  
 Clutch device for motor vehicles and other applications, Automatic. B. Mauvillier. 1,710,174; Apr. 23.  
 Clutch, Disengageable spring. W. C. Starkey. 1,718,197; June 18.  
 Clutch, Disk. O. W. Hahn. 1,722,522; July 30.  
 Clutch disk and making the same. E. Slade. 1,715,105; May 28.  
 Clutch, Double-plate. G. C. Carhart. 1,717,355; June 18.  
 Clutch-drum construction. G. C. Carhart. 1,701,909; Feb. 12.  
 Clutch feeding means for printing presses and the like, Friction. N. E. Funk. 1,718,225; June 25.  
 Clutch for conveying rotary motion. J. L. Rushton. 1,703,694; Feb. 26.  
 Clutch for material carriers. J. W. Scott. 1,697,824; Jan. 1.  
 Clutch for mechanical pencils, Lead. W. G. Aulmann. 1,736,568; Nov. 19.  
 Clutch for motors, Starting. L. M. Persons. 1,738,201; Dec. 3.  
 Clutch for refrigerators. H. L. Brump and F. Bauch. 1,737,825; Dec. 3.  
 Clutch for seeding machines and the like. E. G. Calkins. 1,721,507; July 23.  
 Clutch, Friction. H. H. Benn. 1,718,105; June 18.  
 Clutch, Friction. J. G. Fay. 1,729,376; Sept. 24.  
 Clutch, Friction. A. E. Goranson and M. E. Willene. 1,713,278; May 14.  
 Clutch, Friction. J. A. Guay. 1,700,493; Jan. 29.  
 Clutch, Friction. J. A. Guay. 1,700,932; Feb. 5.  
 Clutch, Friction. N. H. Henderson. 1,697,595; Jan. 1.  
 Clutch, Friction. E. J. Hornberger. 1,699,968; Jan. 22.  
 Clutch, Friction. O. C. Kave. 1,739,399; Dec. 10.  
 Clutch, Friction. G. A. Schettler. 1,741,438; Dec. 31.  
 Clutch, Gear. M. V. Mussa. 1,717,730; June 18.  
 Clutch, Laundry-machine. A. W. Mitchell. 1,727,933; Sept. 10.  
 Clutch-lining arrangement. C. M. and G. Gibson. 1,702,000; Feb. 12.  
 Clutch, Lubricated multiple-disk. E. E. Hoffman. 1,702,116; Feb. 12.  
 Clutch, Magnetic. W. D. Moore, C. D. Barr, J. W. Moore, and W. J. Wilson. 1,735,648; Nov. 12.  
 Clutch, Magnetic. J. M. Weydell. 1,702,755; Feb. 19.  
 Clutch mechanism. C. H. Arnold. 1,737,907; Dec. 3.  
 Clutch mechanism. O. E. Clark. 1,726,287; Aug. 27.  
 Clutch mechanism. C. W. Hollingsworth. 1,731,626; Oct. 15.  
 Clutch mechanism. C. W. Hollingsworth. 1,740,735; Dec. 24.  
 Clutch mechanism. I. R. Metcalf. 1,716,594; June 11.  
 Clutch mechanism. J. D. Rauch. 1,717,892; June 18.  
 Clutch mechanism. A. H. Schloz. 1,702,548; Feb. 19.  
 Clutch mechanism. H. L. Turney. 1,710,441; Apr. 23.  
 Clutch mechanism and changing of speed. L. Durán y Daspenas. 1,739,216; Dec. 10.  
 Clutch mechanism for lathe apron transmission. F. B. Cockburn. 1,709,339; Apr. 16.  
 Clutch mechanism for motor vehicles, Safety. H. G. Schuler. 1,720,007; July 9.  
 Clutch mechanism for presses. A. F. Froussard. 1,721,902; July 23.  
 Clutch mechanism for sign changers. P. Reiss. 1,698,416; Jan. 8.  
 Clutch-operating device. L. J. M. Peterson. 1,701,118; Feb. 5.  
 Clutch-operating mechanism, Automobile. E. T. Harney. 1,704,602; Mar. 5.  
 Clutch-operating mechanism for hoists. J. P. Street. 1,700,552; Jan. 29.  
 Clutch or brake construction. M. J. Mickulecky. 1,718,058; June 18.  
 Clutch-pedal control. G. F. H. Hicks. 1,720,075; July 9.  
 Clutch plate. D. E. Gamble. 1,704,503; Mar. 5.  
 Clutch plate. J. A. Guay. 1,700,492; Jan. 29.  
 Clutch plate. J. B. Raviolo. 1,727,841; Sept. 10.  
 Clutch, Positive-drive. T. B. Tyler. 1,702,753; Feb. 19.  
 Clutch, Pulley. E. C. Pfaff. 1,723,887; Aug. 6.  
 Clutch-pulley control. J. Reid. 1,716,738; June 11.  
 Clutch, Regulatable centrifugal. C. Hoerl. 1,726,562; Sept. 3.  
 Clutch ring, Asbestos friction. L. Kirschbraun. 1,710,094; Apr. 23.  
 Clutch, Safety. J. H. Smith. 1,735,799; Nov. 12.  
 Clutch, Single-plate. S. A. Stranahan. 1,712,943; May 14.  
 Clutch, Speed. R. Saller. 1,724,044; Aug. 13.  
 Clutch, Spindle. G. H. Magrath. 1,741,197; Dec. 31.  
 Clutch, Transmission. A. W. Harris. 1,704,433; Mar. 5.  
 Clutch, Tug-wheel. E. R. Hornbeck and H. K. Holt. 1,741,629; Dec. 31.  
 Clutch, Variable-speed. J. F. Gaylord. 1,730,362; Oct. 8.  
 Clutches, Driven plate for friction. H. V. Reed. 1,719,623-4; July 2.  
 Clutches, Driven plate for friction. H. V. Reed. 1,721,504; July 23.  
 Coal and ashes handling system. W. E. Hale. 1,703,035; Feb. 19.  
 Coal and like materials, Apparatus for extracting values from. F. C. Greene and I. F. Laucks. 1,730,569; Oct. 8.  
 Coal and the like, Obtaining liquid products from. M. Melamid. 1,723,431; Aug. 6.  
 Coal, Apparatus for burning finely-divided. W. B. Chapman. 1,719,874; July 9.  
 Coal, Apparatus for obtaining pulverized. T. E. Murray. 1,702,055; Feb. 12.  
 Coal bin. V. J. Covington. 1,719,393; July 2.  
 Coal breaker. A. Loxal and A. Lerciu. 1,700,266; Jan. 29.  
 Coal-breaking machine. B. Norton. 1,728,075; Sept. 10.  
 Coal-chute gate. W. E. Howlett. 1,720,677; July 16.  
 Coal conveyor. A. L. Shaw. 1,701,733; Feb. 12.  
 Coal conveyor and the like. W. Poxon. 1,719,448; July 2.  
 Coal conveying and discharging device. W. B. Coffman. 1,728,229; Sept. 17.  
 Coal-cutting machine. A. Y. Hoy. 1,702,441; Feb. 19.  
 Coal-distillation apparatus. W. M. Carr and T. J. Ashley. 1,726,058; Aug. 27.  
 Coal-dust furnace. R. Uhlig. 1,701,900; Feb. 12.  
 Coal-feed-distributing device, Automatic. F. Graves and M. S. Martin. 1,708,879; Apr. 9.  
 Coal-feeding device, Pulverized. G. P. Jackson. 1,708,505; Apr. 9.  
 Coal gas and water gas, Producing mixed. F. D. Marshall. 1,713,189; May 14.  
 Coal, Gasification of bituminous. J. M. Rusby. 1,725,739; Aug. 20.  
 Coal, Method of and apparatus for mining thin-vein. A. Smith. 1,723,383; Aug. 6.  
 Coal-mining apparatus. N. D. Levin. Re17,305; May 28.  
 Coal, oil, and other hydrocarbons, Process and apparatus for splitting. A. Debo. 1,704,792; Mar. 12.  
 Coal-oil burner. J. B. Morrow. 1,698,061; Jan. 8.  
 Coal or other gases, Purifying. J. N. Reeson and W. L. Moss. 1,708,590; Apr. 9.  
 Coal pocket. Z. W. and L. D. Craine. 1,720,822; July 16.  
 Coal, Process and apparatus for drying and pulverizing. F. I. Barrows. 1,734,992; Nov. 12.  
 Coal pulverizer. F. G. Lugin. 1,737,931; Dec. 3.  
 Coal pulverizer and fire feeder, Electrically-driven. P. L. Crowe. 1,733,683; Oct. 29.  
 Coal pusher. I. C. Jordan. 1,708,507; Apr. 9.  
 Coal screen. F. A. Krebbel. 1,719,513; July 2.  
 Coal-separating apparatus. E. J. Corcoran. 1,737,410; Nov. 26.  
 Coal-sizing and impurity-separating device. W. F. Davis. 1,716,486; June 11.  
 Coal-spout-swinging device, Automatic. W. H. Phillips. 1,711,155-7; Apr. 30.  
 Coal-transport system, Pulverized. J. H. Taylor. 1,741,041; Dec. 24.  
 Coal washing and selecting apparatus. C. Nakatsu. 1,701,589; Feb. 12.  
 Coal-washing apparatus. F. H. Blatch, H. L. McLean and W. C. Menzies. 1,714,492; May 28.  
 Coaster. H. L. Hood. 1,722,574; July 30.  
 Coaster. J. C. Moore, jr. 1,697,994; Jan. 8.  
 Coaster. J. Shone. 1,701,798; Feb. 12.



- Coaster and slide, Combination. E. E. Christy. 1,728,332; Sept. 17.
- Coaster cars, Swivel coupling for. C. E. Phare. 1,719,193; July 2.
- Coaster for autos, Automatic. J. Garlick. 1,740,455; Dec. 24.
- Coaster, Toboggan. F. B. Lier. 1,720,488; July 9.
- Coasting device. S. A. Bunce. 1,720,071; July 9.
- Coat. H. D. Fertil. Des. 79,921-3; Nov. 19.
- Coat. M. E. Lambert. Des. 79,559; Oct. 8.
- Coat. D. Long. Des. 78,115; Mar. 26.
- Coat. D. Long. Des. 80,132; Dec. 17.
- Coat and hat rack. E. E. and W. W. Shipley. 1,716,708; June 11.
- Coat and jacket and constructing the same. V. Maronna. 1,697,959; Jan. 8.
- Coat, Boy's. S. Gold and L. B. Conduit. Des. 77,686; Feb. 12.
- Coat hanger. G. Wordingham. 1,741,750; Dec. 31.
- Coat hanger and trousers press, Combined collapsible. V. H. Barr-Smith. 1,701,437; Feb. 5.
- Coat hanger making machine, Automatic. E. B. Maloon. 1,727,513; Sept. 10.
- Coat, Hunting. W. E. Conover, and B. D. Bush. 1,724,343; Aug. 13.
- Coat, Hunting. I. P. Smith. 1,723,214; Aug. 6.
- Coat, Lady's. M. Levitt. Des. 79,140-6; Aug. 6.
- Coat-of-mail metallic mesh fabric. S. G. Mandalan. 1,701,502; Feb. 12.
- Coat, Rain. H. Martin. Des. 78,913; July 2.
- Coat, Shawl. H. B. Young. 1,739,433; Dec. 10.
- Coat with removable lining, Lady's. S. Horwitz. 1,730,769; Oct. 8.
- Coated article. N. M. Hopkins. 1,717,561; June 18.
- Coated article and making the same. B. Talbot. 1,737,033; Nov. 26.
- Coated, Fabric. G. E. Alling. Des. 79,056-7; July 30.
- Coating aluminum electrolytically. C. L. Beal. 1,727,331; Sept. 10.
- Coating and coloring metal articles, Method and composition of matter for. A. Pacz. 1,723,067; Aug. 6.
- Coating and filling material and the production thereof. P. C. Christensen. 1,728,391; Sept. 17.
- Coating and heat treating. A. O. Austin. 1,740,639; Dec. 24.
- Coating apparatus. E. Erickson. 1,728,179; Sept. 17.
- Coating apparatus. J. G. Jones. 1,711,948; May 7.
- Coating apparatus. J. S. Stokes. 1,741,382; Dec. 31.
- Coating apparatus. C. B. Tibbetts and H. L. Sawyer. 1,741,486; Dec. 31.
- Coating, Apparatus for. P. J. Barord. 1,726,941; Sept. 3.
- Coating, Apparatus for applying. D. V. Driscoll. 1,698,945; Jan. 15.
- Coating-applying device. T. R. Gautier. 1,732,637; Oct. 22.
- Coating articles, Apparatus for. C. M. Jamieson. 1,738,431; Dec. 3.
- Coating cast iron with lead. O. Spengler. 1,703,019; Feb. 19.
- Coating cathodes, Method of and apparatus for. F. S. McCullough. 1,733,082; Oct. 22.
- Coating composition. C. E. Bradley and W. A. Gibbons. 1,703,920; Mar. 5.
- Coating composition. W. P. Davey. 1,726,473; Aug. 27.
- Coating composition and making same. L. G. Maurer. 1,704,622; Mar. 5.
- Coating composition and making same. C. M. Stine. 1,721,931; July 23.
- Coating composition and making same. C. M. A. Stine and J. E. Booge. 1,700,779; Feb. 5.
- Coating composition and making the same. C. M. Stine and C. Coolidge. 1,723,632; Aug. 6.
- Coating composition and process of making. C. M. Stine. 1,721,930; July 23.
- Coating composition, Liquid-. G. H. Mains. 1,730,857; Oct. 8.
- Coating confectionery and the like. G. R. Baker, J. W. Epps, and G. W. Perks. 1,737,447; Nov. 26.
- Coating containers, Protectively. C. T. Draper. 1,718,039; June 18.
- Coating cylindrical articles. C. T. Draper. 1,700,697; Jan. 29.
- Coating device. H. H. Beckwith. 1,739,499; Dec. 17.
- Coating finely-divided particles, Method of and apparatus for. W. S. Buttles. 1,726,340; Aug. 27.
- Coating for molds. H. P. Kimber. 1,722,098; July 23.
- Coating for permanent molds, Double. H. P. Kimber. 1,701,159; Feb. 5.
- Coating for wood, metal, or other surfaces and making the same. C. H. Holman and O. W. Hooppaw. 1,734,130; Nov. 5.
- Coating granular material, Process and apparatus for. E. A. Zebuske. 1,725,608; Aug. 20.
- Coating machine. M. Daignas. 1,729,712; Oct. 1.
- Coating machine. C. T. Hatch. 1,741,155; Dec. 31.
- Coating machine. L. F. Light. 1,739,642; Dec. 17.
- Coating machine. A. A. MacCubbin. 1,716,072; June 4.
- Coating machine. F. H. Woolf. 1,734,103; Nov. 5.
- Coating material. W. P. Davey. 1,723,844; Aug. 6.
- Coating material for metal molds. A. R. Willard. 1,720,356; July 9.
- Coating metal articles, Method and incline apparatus for. H. B. Newhall. 1,727,354; Sept. 10.
- Coating metal articles, Method of and apparatus for. D. G. Griswold. 1,739,482; Dec. 10.
- Coating metallic aluminum or aluminum alloys with aluminum oxide skin. T. Kujirai. 1,735,286; Nov. 12.
- Coating method. B. C. Goss. 1,698,302; Jan. 8.
- Coating, Method and apparatus for. C. A. Davis. 1,732,504; Oct. 22.
- Coating pipes. H. M. Cook and L. R. Rogers. 1,733,006; Oct. 22.
- Coating process. P. J. Kelley. 1,713,233; May 14.
- Coating roofing felt. J. C. Black and W. D. Rial. 1,714,206; May 21.
- Coating strand material, Apparatus for. R. C. Kivley. 1,722,379; July 30.
- Coating strand material, Method of and apparatus for. F. Martindell. 1,734,737; Nov. 5.
- Coating surfaces, Method of and apparatus for. J. P. McLimans and H. S. Cress. 1,729,728; Oct. 1.
- Coating system. J. W. Cosgrove. 1,705,752; Mar. 19.
- Coating system. S. J. Finn. 1,719,175; July 2.
- Coating to pipe, Applying a protective. L. S. Bushnell. 1,700,996; Feb. 5.
- Coating valve sleeves. H. J. Edwards. 1,727,302; Sept. 3.
- Coatings from conductors, Removing. H. P. Hollnagel. 1,726,623; Sept. 3.
- Cocaines, Decreasing the toxic action of. R. Eckermann. 1,733,298; Oct. 29.
- Cock, Acid. M. Lotz. 1,714,606; May 28.
- Cock, Angle. C. C. Farmer. 1,703,875; Mar. 5.
- Cock, Angle. W. D. Kendrick. 1,697,278; Jan. 1.
- Cock, Angle. F. P. Livingston. 1,700,847; Feb. 5.
- Cock, Angle. F. P. Livingston. 1,703,889; Mar. 5.
- Cock, Angle. B. Pratt. 1,735,790; Nov. 12.
- Cock, Antifreezing sill. J. F. Surdam and G. J. Brown. 1,715,314; May 28.
- Cock, Ball. H. D. Clemmons. 1,734,762; Nov. 5.
- Cock device, Angle-. R. J. Bush. 1,707,250; Apr. 2.
- Cock device, Angle-. C. C. Farmer. 1,736,000; Nov. 19.
- Cock, Dual-control sill. G. Benson. 1,736,843; Nov. 26.
- Cock handle and plate, Combined. A. H. Brodbeck. Des. 80,161; Dec. 24.
- Cock or tap for controlling fluids. O. Bracker. 1,734,416; Nov. 5.
- Cock or valve, Stop. E. McGee. 1,715,168; May 28.
- Cock or valve, Stop. A. W. Schenker. 1,739,991; Dec. 17.
- Cock, valve, and the like. E. H. H. Jørgensen. 1,714,374; May 21.
- Cocktail shaker or similar article. E. Warrin. Des. 77,717; Feb. 12.
- Cocoa or chocolate and milk and product thereof, Making mixtures of. C. E. North. 1,710,504-7; Apr. 23.
- Cocoa or chocolate and milk, Making mixtures of. C. E. North. 1,710,508; Apr. 23.
- Cocoa roaster. A. D. Kirkland. 1,732,896; Oct. 22.
- Cocoon storage by cooling and drying. K. Kobori. 1,717,227; June 11.
- Cocoons of silk-producing insects, Method of and apparatus for conserving. G. D. Hurst. 1,704,972; Mar. 12.
- Coding and decoding, Device for. W. Korn. 1,733,886; Oct. 29.
- Coffee machine, Large-output express. A. Torriani. 1,709,290; Apr. 16.
- Coffee maker. A. M. Boever. Des. 80,014; Dec. 3.
- Coffee maker. C. E. Page. Re17,399; Aug. 6.
- Coffee maker. C. E. Page. Des. 77,979; Mar. 12.
- Coffee-making apparatus. G. P. Petropoulos. 1,704,809; Mar. 12.
- Coffee-making apparatus. E. Pistoni and L. Pistoni. 1,736,460; Nov. 19.
- Coffee-making apparatus. J. L. Shroyer. 1,706,190; Mar. 19.
- Coffee meter. H. C. Cushing. 1,724,751; Aug. 13.
- Coffee mill. E. Rilling. 1,711,208; Apr. 30.
- Coffeepot. E. Aborn. 1,740,136; Dec. 17.
- Coffeepot. T. S. Ford. Des. 79,069; July 30.
- Coffeepot. B. D. Hempstead. 1,700,529; Jan. 29.
- Coffeepot. B. R. Herring. Des. 78,353; Apr. 23.
- Coffeepot. J. A. Myers. 1,722,936; July 30.
- Coffeepot or analogous article. M. G. Parker. Des. 78,121; Mar. 26.
- Coffee pot or similar article. E. T. Beck. Des. 77,459; Jan. 15.
- Coffeepot or similar article. L. A. Brown. Des. 78,376; Apr. 30.
- Coffeepot or similar article. O. W. Martha. Des. 77,848; Feb. 26.
- Coffee preparation. T. M. Rector. 1,716,323; June 4.
- Coffee product and making same. J. P. Pauly. 1,723,069; Aug. 6.
- Coffee table. J. J. Heyman. 1,738,429; Dec. 3.
- Coffee-urn-flushing device. W. H. Clinton. 1,709,657; Apr. 16.
- Coffee urn or similar article. C. A. Schallis. Des. 78,718; June 11.
- Coffin, Composition. F. W. O. Listing. 1,730,666; Oct. 8.
- Coffin spring. W. J. Eppihimer. 1,740,581; Dec. 24.
- Coil. L. B. Sauer. 1,729,492; Sept. 24.
- Coil. B. R. Scott. 1,719,242; July 2.
- Coil. L. J. Straitt. 1,729,971; Oct. 1.
- Coil and stand. F. J. Reichmann. 1,717,521; June 18.
- Coil and transformer. A. J. Christopher. 1,708,935; Apr. 16.
- Coil and winding the same. R. Varley. 1,723,261; Aug. 6.
- Coil, Bakelized armature. W. L. Neely. 1,697,134; Jan. 1.
- Coil bobbin and core, Electromagnet. J. Osborne. 1,719,192; July 2.



- Coil box for rolling mills. H. M. Naugle and A. J. Townsend. 1,721,352; July 16.
- Coil, Condenser. C. C. Gillican. 1,698,789; Jan. 15.
- Coil, Condensing. W. G. Jack. 1,697,600; Jan. 1.
- Coil construction. B. R. Scott. 1,719,241; July 2.
- Coil, Cooling. N. M. Small. 1,701,841; Feb. 5.
- Coil for artificial refrigerating systems. H. L. Foster. 1,702,565; Feb. 19.
- Coil for brine tanks of refrigerating apparatus, Boiling. F. L. Cook. 1,702,644; Feb. 19.
- Coil-forming device. Collapsible. W. W. Werner. 1,726,279; Aug. 27.
- Coil-forming machine. C. M. McCord. 1,725,992; Aug. 27.
- Coil, Heat-exchange. J. Strindlund. 1,713,456; May 14.
- Coil, Heat-transmission. J. M. McClatchie. 1,717,395; June 18.
- Coil, Ignition. W. A. Chryst. 1,710,862; Apr. 30.
- Coil, Inductance. S. L. Norviel. 1,699,177; Jan. 15.
- Coil mounting. G. L. Beers. 1,703,080; Feb. 19.
- Coil mounting, Refrigerator-. C. L. Johnson. 1,741,989; Dec. 31.
- Coil, Nonmagnetic-core reactance. L. Roebel. 1,738,117; Dec. 3.
- Coil springs, Method and apparatus for wiring. A. J. Lewis and W. S. Reynolds. 1,719,894; July 9.
- Coil, Toroidal. E. F. Parks. 1,698,650; Jan. 8.
- Coil, Toroidal induction. P. H. Davis. 1,699,609; Jan. 22.
- Coil, Variable impedance. R. S. Brummett. 1,700,092; Jan. 22.
- Coil winding. R. C. Da Costa. 1,726,100; Aug. 27.
- Coil-winding machine. C. F. Jahng. 1,702,475; Feb. 19.
- Coil-winding machine. W. L. Thacker. 1,731,183; Oct. 8.
- Coiler. J. Hall. 1,704,190; Mar. 5.
- Coiling device. A. F. Willat. 1,708,165; Apr. 9.
- Coiling means for concavo-convex springs. H. A. Farrand. 1,730,199; Oct. 1.
- Coils, Apparatus for and method of forming. C. E. Warner and A. N. Nilson. 1,728,144; Sept. 10.
- Coils, Winding. A. H. Adams and C. H. Franks. 1,713,941; May 21.
- Coils, Winding. P. Bolis. 1,741,220; Dec. 31.
- Coin assorting and counting machine. R. and A. S. Reid and F. H. Leonard. 1,718,801; June 25.
- Coin-box station. M. Auterli. 1,737,554; Dec. 3.
- Coin-collecting means for telephone services and the like. F. W. Hall. 1,730,422; Oct. 8.
- Coin-collection apparatus. C. H. Wheeler. 1,717,079; June 11.
- Coin control and change-making device. W. T. Mitchell. 1,737,511; Nov. 26.
- Coin-control lock. G. R. Webber. 1,725,497; Aug. 20.
- Coin-control mechanism for dispensing machines. J. J. Schermack. 1,731,352; Oct. 15.
- Coin-controlled and coin-collecting mechanism. J. G. Lydecker. 1,732,446; Oct. 22.
- Coin-controlled apparatus. M. Rosenblatt. 1,706,465; Mar. 26.
- Coin-controlled apparatus. Delayed-. V. F. Slezak. 1,740,878; Dec. 24.
- Coin-controlled lock. D. C. Morgan. 1,708,319; Apr. 9.
- Coin-controlled machine. F. L. Mills. 1,697,537; Jan. 1.
- Coin-controlled machine. F. L. Mills. 1,706,896; Mar. 26.
- Coin-controlled mechanism. A. H. Du Grenier. 1,701,875; Feb. 12.
- Coin-controlled mechanism. H. M. Henderson. 1,729,384; Sept. 24.
- Coin-controlled mechanism. L. H. Morin. 1,734,739-40; Nov. 5.
- Coin-controlled mechanism. W. H. Rowe. 1,708,741; Apr. 9.
- Coin-controlled mechanism. W. H. Rowe. 1,722,313; July 30.
- Coin-controlled mechanism. H. M. Wagner. 1,704,930; Mar. 12.
- Coin-controlled merchandising machine. C. P. Thomas. 1,726,201; Aug. 27.
- Coin-controlled safe. S. L. Belknap. 1,722,030; July 23.
- Coin-counting machines, Stacking stem for. C. L. Downey. 1,710,086; Apr. 23.
- Coin-delivery casing. E. J. Brandt. Des. 77,636; Feb. 5.
- Coin detector. B. L. Fry. 1,732,509; Oct. 22.
- Coin detector and eliminator, Sound-operated. D. E. Courtney. 1,741,978; Dec. 31.
- Coin-freed machine for vending packaged goods. E. J. Brown. 1,724,638; Aug. 13.
- Coin-freed mechanism. L. C. Bradley. 1,732,352; Oct. 22.
- Coin-handling machinery. E. P. Donnellan. 1,721,511; July 23.
- Coin-operated lock. E. C. Lange and S. J. Nicholson. 1,705,981; Mar. 19.
- Coin-receiving device, Self-cleaning. D. C. Fonda and R. L. Hatfield. 1,711,049; Apr. 30.
- Coin-selecting mechanism. J. J. Schermack. 1,730,631; Oct. 8.
- Coin-slot protector. A. M. Cramer. 1,736,522; Nov. 19.
- Coin tester. W. C. Cutler. 1,702,559; Feb. 19.
- Coin tester and slug eliminator for vending machines. O. W. Timm. 1,722,690; July 30.
- Coin tester for automatic vending machines and the like. H. Rakowitzky. 1,730,291; Oct. 1.
- Coin wrapper. C. L. Downey. 1,717,669; June 18.
- Coke and gas apparatus and process. H. Koppers. 1,723,280; Aug. 6.
- Coke and gas from solid carbonaceous material, Apparatus for producing. F. D. Marshall. 1,704,093; Mar. 5.
- Coke bin. A. J. Boynton. 1,709,604; Apr. 16.
- Coke, Plant for utilizing the sensible heat of hot. O. Heller. 1,714,168; May 21.
- Coke, Process and apparatus for making. F. Puening. 1,699,448; Jan. 15.
- Coke treatment and product. A. A. Kohr. 1,705,020; Mar. 12.
- Coking coal in a retorting space. J. Becker. 1,707,427; Apr. 2.
- Coking process. H. Koppers. 1,733,307; Oct. 29.
- Coking process and apparatus therefor. L. Wilputte. 1,710,464; Apr. 23.
- Coking process, Pitch-. H. Koppers. 1,715,240; May 28.
- Coking solid fuel. E. Raffloer. 1,723,807; Aug. 6.
- Coking solid fuel, Apparatus for. E. Raffloer. 1,708,152; Apr. 9.
- Collapsible bench. J. A. Green. 1,738,473; Dec. 3.
- Collapsible box. J. Ortiz. 1,718,872; June 25.
- Collapsible box. C. E. Phillips. 1,716,975; June 11.
- Collapsible box. J. Podell and W. Conescu. 1,737,771; Dec. 3.
- Collapsible box. C. A. Reese. 1,720,146; July 9.
- Collapsible case. W. J. Mielziner. 1,723,293; Aug. 6.
- Collapsible chair. J. A. Barraket. 1,703,606; Feb. 26.
- Collapsible gate. J. R. Jackson, jr. 1,718,649; June 25.
- Collapsible gate. J. R. Jackson, jr. 1,721,998; July 23.
- Collapsible rake. E. Dabrowski. 1,740,286; Dec. 17.
- Collapsible seat. L. F. Stafford. 1,702,280; Feb. 19.
- Collapsible stand. E. M. Sims. 1,716,466; June 11.
- Collapsible structure such as pontoons and seaplane floats, divisible into boats. N. Strausser. 1,720,701; July 16.
- Collapsible tube. W. T. Davis. 1,740,287; Dec. 17.
- Collapsible tube. H. C. Mason. 1,727,241; Sept. 3.
- Collapsible tube. E. C. Urquhart. 1,714,741; May 28.
- Collapsible tube, Multiple. N. M. Hopkins. 1,699,532; Jan. 22.
- Collapsible tube, Multiple-compartment. N. M. Hopkins. 1,698,404; Jan. 8.
- Collar. J. N. Collins. 1,721,481; July 16.
- Collar. J. H. Deutschmann. 1,733,297; Oct. 29.
- Collar. H. M. Kilpatrick. 1,705,296; Mar. 12.
- Collar. A. F. McDonnell. 1,710,371; Apr. 23.
- Collar and fabric therefor, Semisoft. J. V. Moore. 1,739,912; Dec. 17.
- Collar and making same, Attached. R. Hunter. 1,735,399; Nov. 12.
- Collar and making the same, Fold-over. J. McKay. 1,720,848; July 16.
- Collar-attaching device. J. C. Reeves. 1,724,417; Aug. 13.
- Collar backing, Shirt-. E. L. Cousino. 1,705,719; Mar. 19.
- Collar-buster structure. F. Dietrich. 1,701,446; Feb. 5.
- Collar clasp. I. Gnatowsky. 1,735,387; Nov. 12.
- Collar-conditioning apparatus. G. W. Johnson. 1,698,405; Jan. 8.
- Collar construction, Convertible-shirt-. E. R. Goldberg. 1,716,042; June 4.
- Collar, Flexible. R. P. Bryant. 1,735,636; Nov. 12.
- Collar for personal wear. R. M. Hawes. 1,703,584; Feb. 26.
- Collar, Horse. J. E. Carlson. 1,710,448; Apr. 23.
- Collar, One-piece semisoft. J. V. Moore. 1,721,404; July 16.
- Collar or like garment part and making the same. F. H. Taber. 1,720,771; July 16.
- Collar pin. S. L. Gedney. 1,731,163; Oct. 8.
- Collar pin, Soft. J. A. Young. 1,725,894; Aug. 27.
- Collar protector and hair device. G. G. Dunlap. 1,723,018; Aug. 6.
- Collar, Rotating. J. L. Woodmansee and H. D. Woodmansee. 1,699,087; Jan. 15.
- Collar-securing means. L. Berge. 1,721,765; July 23.
- Collar, Shirt. N. Antonu. 1,709,702; Apr. 16.
- Collar, Soft. G. W. Jones and H. D. Roberson. 1,709,221; Apr. 16.
- Collar stiffener. H. H. Kramer. 1,733,738; Oct. 29.
- Collar stiffener, Shirt. J. H. Janowitch. 1,741,311; Dec. 31.
- Collars, Stiffening and necktie supporting means for soft and semisoft. A. N. W. Richardson. 1,700,075; Jan. 22.
- Collating machine. E. W. Belluche. 1,700,427; Jan. 29.
- Collecting and delivering device. I. B. Gilbert and W. G. Meiners. 1,718,414; June 25.
- Collecting volatile substances, Apparatus for. M. Okochi. 1,721,033; July 16.
- Collector. S. Kravnick. 1,739,844; Dec. 17.
- Collet. R. F. Stowell. 1,735,804; Nov. 12.
- Collets, Making. B. F. Stowell. 1,716,331; June 4.
- Collision recorder. T. Taylor. 1,701,800; Feb. 12.
- Colloid-treating apparatus. H. W. A. Dixon. 1,702,380; Feb. 19.
- Colloidal adsorption of HCl. Making. V. A. Lapenta. 1,699,596; Jan. 22.
- Colloidal compounds, Manufacturing. A. Chwala. 1,728,662; Sept. 17.
- Colloidal mordant bath and making it. L. R. Parks. 1,710,000; Apr. 23.
- Colloidal suspension treatment. B. Sugden. 1,735,142; Nov. 12.
- Color and light effects, Device for producing. K. Zick. 1,717,868; June 18.
- Color-card system, Printer's. W. E. Barta. 1,704,675; Mar. 5.
- Color changer for spot and flood lights, Illuminated. W. S. Drew. 1,729,163; Sept. 24.
- Color cinematography. K. Martin. 1,728,426; Sept. 17.



- Color-depositing apparatus for paper-making machines. C. G. Bright. 1,709,969; Apr. 23.
- Color identification, analysis, and reproduction, Method of and of appliance for. W. C. Huebner. 1,703,449; Feb. 26.
- Color-identifying device. J. Lapensée. 1,732,848; Oct. 22.
- Color mixer. E. O. Fleek. Re17,203; Feb. 5.
- Color preparation, Readily-soluble vat. W. Bauer. A. Heire, and A. Funke. 1,711,008-9; Apr. 30.
- Color-presentation means. F. P. Connolly. 1,727,004; Sept. 3.
- Colored-light effects, Producing. B. Jirotko. 1,697,655; Jan. 1.
- Colored or diffusing coating for incandescent lamps and similar articles. M. Pipkin. 1,706,182; Mar. 19.
- Colored material and coating and process for producing the same. C. E. Fawkes. 1,732,124; Oct. 15.
- Colored molded masses from blood. Production of. F. Homberg and M. Landecker. 1,724,088; Aug. 13.
- Colorimeter apparatus. C. N. Race. 1,739,373; Dec. 10.
- Coloring and etching paper webs and the like and method thereof. Mechanism for. H. Palm. 1,702,268; Feb. 19.
- Coloring glass inclosures. Apparatus for. J. T. Fagan and R. G. Phelps. 1,708,788; Apr. 9.
- Coloring magnesium oxychloride stucco. Method of and material for. M. Y. Seaton. 1,720,972; July 16.
- Coloring matters for cosmetics. Nonpoisonous. J. Culmann and E. Ahrens. 1,702,227; Feb. 12.
- Coloring matters which contain 1,5-dihydroxynaphthalene nucleus, Disazo pyrazolone. L. W. Geller. 1,706,878; Mar. 26.
- Coloring of products comprising cellulose acetate. G. H. Ellis. 1,740,890; Dec. 24.
- Coloring organic fibers or articles such as skins, furs, papers, etc., consisting of animal and vegetable fibers. N. Voroshizow. 1,719,159; July 2.
- Coloring the surface of wood. M. Sparkes. 1,697,026; Jan. 1.
- Coloring toy balloons. J. C. Gibson. 1,720,594; July 9.
- Colors, Apparatus for ascertaining. A. Hintze. 1,704,605; Mar. 5.
- Colors of the 1:9-anthrathiazole series. Vat. R. N. Lulek. 1,705,023; Mar. 12.
- Colors or the like capable of being fixed by heat, Manufacture of. O. Van Cuyck. 1,730,178; Oct. 1.
- Colors, Production of ice. W. Christ. 1,733,447; Oct. 29.
- Column clamp. A. H. Symons. 1,726,776; Sept. 3.
- Column, Fluted. V. Hagopian. Des. 78,286; Apr. 16.
- Column for smoking stand or article of analogous nature. P. Cricchio. Des. 78,380; Apr. 30.
- Columns and the like, Making. A. E. Lingo. 1,741,704; Dec. 31.
- Columns, Making. A. E. Lingo. 1,722,671; July 30.
- Comb: See—
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| Clip comb.     | Fountain comb.       |
| Currycomb.     | Permanent-wave comb. |
| Foldable comb. | Toilet comb.         |
| Folding comb.  | Wave comb.           |
- Comb. E. D. Anderson. 1,699,515; Jan. 22.
- Comb. J. De Bartolo. 1,728,152; Sept. 10.
- Comb. I. D. Block and G. B. Canada. 1,699,044; Jan. 15.
- Comb. H. H. Hutchings. Re17,310; May 28.
- Comb. H. H. Hutchings. 1,698,631; Jan. 8.
- Comb. P. G. Jurich. 1,708,419; Apr. 9.
- Comb. L. D. Saxton. 1,738,732; Dec. 10.
- Comb. M. Traeger. 1,705,595; Mar. 19.
- Comb and mirror case, Combination. A. H. Franke. 1,699,884; Jan. 22.
- Comb and scissors, Combination. J. W. and A. Erhard. 1,726,390; Aug. 27.
- Comb cleaner. N. Fulton. 1,736,782; Nov. 26.
- Comb-cleaning device, Hair-. C. and T. Willber. 1,711,627; May 7.
- Comb, Containing sprayer. S. Grosser. 1,714,556; May 28.
- Comb for coloring or dyeing, the hair. R. P. Julien. 1,707,665; Apr. 2.
- Comb for the hair, Electric. E. M. Wildey. 1,724,984; Aug. 20.
- Comb foundation, Wiring and embedding device for. W. A. Trauffer. 1,726,999; Sept. 3.
- Comb or similar article. W. M. Buttrick and R. P. Pipe-roux. Des. 77,885; Mar. 5.
- Comb or similar article. W. M. Buttrick and R. P. Pipe-roux. Des. 77,888; Mar. 5.
- Comb section, Twin. J. Yater. 1,722,169; July 23.
- Combination bench. A. Minkewicz. 1,726,406; Aug. 27.
- Combination burner. F. A. Thesen. 1,730,253; Oct. 1.
- Combination clamp. N. A. Wahlberg. 1,699,772; Jan. 22.
- Combination hook. J. E. Finnessy. 1,731,408; Oct. 15.
- Combination lock. H. Beck. 1,706,994; Mar. 26.
- Combination lock. J. E. Converse. 1,707,797; Apr. 2.
- Combination lock. A. C. Findlay. 1,711,780; May 7.
- Combination lock. E. Frischmuth. 1,718,130; June 18.
- Combination recorder. C. J. Sanders. 1,727,907; Sept. 10.
- Combination switch. O. A. Jones. 1,712,563; May 14.
- Combining machine. R. L. Bellhouse. 1,711,441; Apr. 30.
- Combining machine. J. W. Nasmith. 1,707,134; Mar. 26.
- Combustible composition. S. St. P. Meek. 1,708,187; Apr. 9.
- Combustible materials, Method of and apparatus for drying. H. Evesmitch. 1,697,268; Jan. 1.
- Combustible mixtures for internal-combustion engines, Preparing. W. H. Worthington. 1,710,251; Apr. 23.
- Combustion. J. L. Brees, jr. 1,702,929; Feb. 19.
- Combustion. J. T. Cook. 1,698,258; Jan. 8.
- Combustion apparatus. R. A. Foresman. 1,739,133; Dec. 10.
- Combustion apparatus. J. Good. 1,733,792; Oct. 29.
- Combustion apparatus. M. Owen. 1,699,443; Jan. 15.
- Combustion apparatus. H. C. Siebert. 1,709,042; Apr. 16.
- Combustion-chamber construction. G. Brain. 1,741,147; Dec. 31.
- Combustion chamber for gas burners, Fuel-. T. F. F. Lee. 1,703,115; Feb. 26.
- Combustion chamber for stoves. H. Lange. 1,718,158; June 18.
- Combustion chamber for use with powdered fuel. P. Weiss. 1,705,383; Mar. 12.
- Combustion control. J. C. Gibson. 1,722,415; July 30.
- Combustion-controlling apparatus. E. Roučka. 1,719,139; July 2.
- Combustion-controlling apparatus, Adjustable. L. Hoedt. 1,707,012; Mar. 26.
- Combustion-controlling device, Automatic. W. H. Larkin, jr. 1,713,839; May 21.
- Combustion device. G. van Daam. 1,725,029; Aug. 20.
- Combustion, Device for promoting. A. J. Hammer. 1,740,457; Dec. 24.
- Combustion engine. P. St. Clair, jr. 1,729,366; Sept. 24.
- Combustion engine. G. P. Dorris. 1,720,513; July 9.
- Combustion engine. W. Harper, jr. 1,722,258; July 30.
- Combustion engine. W. Riehm. 1,716,978; June 11.
- Combustion engine and operating same. W. Harper, jr. 1,722,260; July 30.
- Combustion engine, Reversible. M. Rotter. 1,731,270; Oct. 15.
- Combustion engine, Rotary reciprocating. W. Harper, jr. 1,722,257; July 30.
- Combustion engine, Two-stroke. O. Kuhnast. 1,709,269; Apr. 16.
- Combustion generator. A. S. Williams. 1,734,933; Nov. 5.
- Combustion in furnaces, Assisting. G. P. Jackson. 1,701,854-5; Feb. 12.
- Combustion in heating apparatus, Controlling the rate of. A. M. Mertzsoff. 1,717,993; June 18.
- Combustion indicator. M. Ernst and H. B. Holthaus. 1,728,929; Sept. 24.
- Combustion in industrial furnaces, Apparatus for insuring complete. J. Mille. 1,728,571; Sept. 17.
- Combustion of fuels, Method of and apparatus for. H. A. Hymer. 1,702,731; Feb. 19.
- Combustion method and furnace combustion chamber. C. D. Montague. 1,732,412; Oct. 22.
- Combustion, Process and apparatus for maintaining complete. A. A. Blanchard. 1,720,757; July 16.
- Combustion process, Submerged. C. Ellis. 1,716,433; June 11.
- Combustion-promotion device. A. French. 1,729,101; Sept. 24.
- Combustion system for furnaces. G. Van Daam. 1,717,423; June 18.
- Come-along-operating device. C. C. Coon and H. H. Minor. 1,741,288; Dec. 31.
- Comforter. J. May. Des. 78,117; Mar. 26.
- Comforter. J. May. Des. 78,217; Apr. 9.
- Comforter or similar article. J. Goodstein. Des. 79,422; Sept. 17.
- Comminuting machine. F. J. Haller. 1,726,435; Aug. 27.
- Comminuting mill. E. C. Greisen. 1,710,659; Apr. 23.
- Comminuting mill. R. C. Newhouse. 1,710,666; Apr. 23.
- Comminuting mill. R. C. Newhouse. 1,739,855; Dec. 17.
- Comminuting solid substances. W. Ostermann. 1,718,184; June 18.
- Comminutor, Gyrotory. R. C. Newhouse. 1,704,335; Mar. 5.
- Commode. A. S. Kushner. 1,719,938; July 9.
- Commode, Automobile. H. C. Davis. 1,718,034; June 18.
- Commodity signal. R. J. Eichenlaub. 1,727,588; Sept. 10.
- Communicating system for power-transmission lines. M. L. Sindeband, G. N. Tidd, and J. W. Milnor. 1,724,112; Aug. 13.
- Communicating system, High-frequency. H. B. Babson and G. W. Ankersen. 1,741,493; Dec. 31.
- Communication device. W. S. Webster. 1,708,490; Apr. 9.
- Communication system. R. Lee. 1,725,533; Aug. 20.
- Communication system. H. O. Peterson. 1,708,518; Apr. 9.
- Communication system. B. Rosenbaum and O. Pohle. 1,734,231; Nov. 5.
- Communication system, Multiple-channel. A. H. Taylor. 1,735,341; Nov. 12.
- Communior service, Multifiller. J. H. Brady. 1,709,771; Apr. 16.
- Commutating machine connected to induction machines. L. Dreyfus. 1,712,033; May 7.
- Commutator. H. J. Bertram. 1,707,596; Apr. 2.
- Commutator. J. G. Daloz. 1,705,238; Mar. 12.
- Commutator. R. Kroehle. 1,721,515; July 23.
- Commutator and interrupter, Electric jet-wave. J. F. G. P. Hartmann. 1,708,061; Apr. 9.
- Commutator motor. H. L. Brump. 1,723,010; Aug. 6.
- Commutator motor. Alternating-current. S. R. Bergman. 1,706,187; Mar. 19.
- Commutator rings, Apparatus for forming. H. W. Cooper. 1,738,097; Dec. 3.



- Commutator short-circuit device. R. W. Swift. 1,709,415; Apr. 16.
- Commutator-truing device. H. Shapan. 1,712,053; May 7.
- Compact and making same, Powder. L. Kronish. 1,711,798; May 7.
- Compact Liquid-containing combination. B. G. Setvate. 1,736,724; Nov. 19.
- Compact, Smoking and playing-card. A. Blume. 1,704,163; Mar. 5.
- Compartment closet. J. F. Hunter. 1,731,746; Oct. 15.
- Compartment jar. W. M. Johnson. 1,736,264; Nov. 19.
- Compartment tank, Multiple-. E. B. Staley. 1,716,907; June 11.
- Compartments for ice-cream cabinets or the like, Storage. L. G. Copeman. 1,711,722; May 7.
- Compass card. J. R. Metcalf. 1,720,964; July 16.
- Compass course finder. J. R. Metcalf. 1,720,963; July 16.
- Compass, Direct-reading radio telegraphic. R. B. Goldschmidt and R. Brailard. 1,717,679; June 18.
- Compass, Drafting. L. A. Audrieth. 1,734,958; Nov. 12.
- Compass for aircraft. P. Escallier. 1,701,034; Feb. 5.
- Compass galvanometer, Earth inductor. V. E. Showalter. 1,724,048; Aug. 13.
- Compass, Gyroscopic. H. Beghin and P. Monfraix. 1,722,888; July 30.
- Compass, Gyroscopic. R. E. Gillmor. 1,709,395; Apr. 16.
- Compass, Gyroscopic. H. L. Tanner. 1,701,283; Feb. 5.
- Compass, Lateral-reading. E. P. G. Wunsch. 1,737,487; Nov. 26.
- Compass, Master. E. L. Holmes. 1,702,405; Feb. 19.
- Compass, Repeater. E. A. Sperry, jr. 1,724,432; Aug. 13.
- Compass variometer. L. A. Bauer, W. J. Peters, and J. A. Fleming. 1,701,603; Feb. 12.
- Compensating device. H. Ewing and C. F. Ryley. 1,724,076; Aug. 13.
- Compensating device. M. Knight. 1,724,405; Aug. 13.
- Compensating device. J. Perdreau. 1,721,408; July 16.
- Compensating mechanism. T. C. Fisher. 1,717,021; June 11.
- Compensator, Attenuation. L. C. Roberts. 1,717,410; June 18.
- Compensator, Distortion. S. E. Pero. 1,709,037; Apr. 16.
- Composing machines, Leading apparatus for monotype. A. Waeber. 1,725,232; Aug. 20.
- Composing stick. H. H. Hancock. 1,727,975; Sept. 10.
- Composing stick. G. A. McDonald. 1,732,762; Oct. 22.
- Composing-stick attachment. G. E. Sheldon. 1,738,325; Dec. 3.
- Composite article and forming the same. J. G. Donaldson and H. L. Coles. 1,703,661; Feb. 26.
- Composite article and making same. H. Bruninghaus. 1,702,226; Feb. 12.
- Composite article for safe or vault construction, Making. J. G. Donaldson. 1,703,417; Feb. 26.
- Composite articles, Apparatus for producing. J. E. Boynton. 1,741,813; Dec. 31.
- Composite body and producing the same. J. W. Marden and H. C. Rentschler. 1,733,813; Oct. 29.
- Composite gem. H. H. Welch. 1,730,257; Oct. 1.
- Composite material. W. F. Bleeker. 1,718,627; June 25.
- Composite materials, Producing colored. G. H. Willis. 1,701,220; Feb. 5.
- Composite panel and attaching device therefor. H. J. Pfister. 1,718,702; June 25.
- Composite pile. G. L. Sherwood. 1,715,791; June 4.
- Composite pile. O. J. West. 1,715,808; June 4.
- Composite pipe, Noncorrodible. T. De La Mare. 1,722,369; July 30.
- Composite product and making same. H. Gray. 1,697,275; Jan. 1.
- Composite product, Making. H. Gray. 1,719,930; July 9.
- Composite set. H. Nyquist. 1,702,309; Feb. 19.
- Composite structure. R. P. Carlton. 1,736,964; Nov. 26.
- Composition, Coating. M. Blancato. 1,709,056; Apr. 16.
- Composition, Explosive. E. Sorenson. 1,709,498; Apr. 16.
- Composition, Foam-forming. H. Burmeister. 1,732,218; Oct. 22.
- Composition for application to tractive surfaces. H. B. Dutton. 1,734,798; Nov. 5.
- Composition for coating brick, tile, or cement. D. C. Reed. 1,735,793; Nov. 12.
- Composition for conversion into cellulose derivatives and preparing same. G. A. Richter. 1,700,596; Jan. 29.
- Composition for cutting edges of safety-razor blades. A. Claus. 1,717,960; June 18.
- Composition for dental molds. L. J. Weinstein. 1,708,436; Apr. 9.
- Composition for removing boiler scale. H. Rathje. 1,736,800; Nov. 26.
- Composition for treating belts and the like. R. N. Burnett. 1,723,328; Aug. 6.
- Composition in tablet form for determining alkaline content by titration. J. H. Buchanan. 1,721,809; July 23.
- Composition, Insecticidal. W. R. Veazey. 1,737,132; Nov. 26.
- Composition metal members, Machine for sizing. C. Claus. 1,722,787; July 30.
- Composition of matter. A. C. Fischer. 1,730,000; Oct. 1.
- Composition of matter. R. B. Frisbey. 1,733,341; Oct. 29.
- Composition of matter. W. C. Geer. 1,731,487; Oct. 15.
- Composition of matter. R. M. Hardgrove. 1,714,598; May 28.
- Composition of matter. P. W. Leffland. 1,726,906; Sept. 3.
- Composition of matter. E. Retalliau. 1,730,626; Oct. 8.
- Composition of matter. J. E. Smith. 1,711,754; May 7.
- Composition of matter and destroying noxious creatures. O. Liebknecht. 1,736,448; Nov. 19.
- Composition of matter and making same. H. A. Winkelmann. 1,709,242; Apr. 16.
- Composition of matter and making the same. J. H. James. 1,716,272; June 4.
- Composition of matter comprising resin esters. H. M. Weber. 1,722,776; July 30.
- Composition to be used as a sterilizing and germicidal agent. J. H. Buchanan. 1,702,629; Feb. 19.
- Compositions, Manufacture of. W. M. Cameron and G. Schneider. 1,713,740; May 21.
- Compositions of matter for molding and making same. J. T. Collins. 1,716,623; June 11.
- Compote or analogous article. H. E. Nock. Des. 78,585; May 21.
- Compote or similar article. R. E. McEldowney. Des. 78,835; June 25.
- Compotier or analogous article. H. E. Nock. Des. 79,096; July 30.
- Compound dies. M. Kaplan and D. Talnoper. 1,705,924; Mar. 19.
- Compound extension sweep. C. Walthall. 1,717,952; June 18.
- Compound for preventing corrosion of storage-battery-terminal connectors. J. L. Lange. 1,710,227; Apr. 23.
- Compound for vulcanized rubber, Age-resisting. M. H. Zimmermann. 1,734,951-3; Nov. 5.
- Compound switch. H. J. L. Frank. 1,741,227; Dec. 31.
- Compounds containing carbocyclic or heterocyclic rings, Producing. E. Hoffa and W. Luce. 1,733,458; Oct. 29.
- Compounds of aromatic paradiamines with sulphur dioxide and preparing same, Complex. R. Wolfenstein. 1,726,252; Aug. 27.
- Compression heater, Electric. W. L. Denton. 1,703,993; Mar. 5.
- Compressed-air engine. K. Wittig. 1,726,462; Aug. 27.
- Compresses for cotton bales, High density attachment for. J. H. McLean, A. C. Barrows, and G. W. Langford. 1,702,913; Feb. 19.
- Compressing and packing machine. J. A. Johnson. 1,702,567; Feb. 19.
- Compressing and packing machine. J. A. Johnson. 1,702,636; Feb. 19.
- Compression means for filing trays. N. S. Welk. 1,736,810; Nov. 26.
- Compression engine. E. and W. Harr. 1,701,003; Feb. 5.
- Compression gauge. A. Watters. 1,716,399; June 11.
- Compression-producing machine. S. P. Miller, H. E. Hanser, and D. Cooley. 1,698,852; Jan. 15.
- Compressor. P. Andersson. 1,706,373; Mar. 19.
- Compressor. G. Andresen. 1,717,321; June 11.
- Compressor. A. W. Bryant. 1,711,013; Apr. 30.
- Compressor. J. O. Carrey. 1,707,796; Apr. 2.
- Compressor. J. O. Carrey. 1,709,838; Apr. 23.
- Compressor. J. O. Carrey. 1,731,044; Oct. 8.
- Compressor. J. N. Cavallier. 1,718,112; June 18.
- Compressor. E. A. Cobb. 1,727,049; Sept. 3.
- Compressor. J. G. De Remer. 1,733,782; Oct. 29.
- Compressor. C. P. Eisenhauer. 1,729,420; Sept. 24.
- Compressor. H. B. Halvorsen. 1,708,172; Apr. 9.
- Compressor. F. D. Holdsworth. 1,707,307; Apr. 2.
- Compressor. H. C. Kellogg. 1,740,924; Dec. 24.
- Compressor. L. J. Kimmel. 1,705,772; Mar. 19.
- Compressor. O. A. Labus. 1,718,296; June 25.
- Compressor. W. Prellwitz. 1,719,998; July 9.
- Compressor. F. C. Reilly. 1,717,520; June 18.
- Compressor. E. T. Williams. 1,722,616; July 30.
- Compressor, Air. J. A. and P. H. Davey and C. L. Gaugler. Re17,457; Oct. 15.
- Compressor, Air. J. Morinville. 1,718,250; June 25.
- Compressor, Air. P. J. Paffen and L. Wittenberg. 1,735,441; Nov. 12.
- Compressor, Air. P. P. Pescara. 1,732,693; Oct. 22.
- Compressor, Air. P. F. Price. 1,729,548; Sept. 24.
- Compressor and coupling therefor, Lubricant. E. W. Davis. 1,711,777; May 7.
- Compressor and mounting the same on tractors, Portable. J. A. and P. H. Davey and C. L. Gaugler. 1,729,155; Sept. 24.
- Compressor and pump. E. Wilson. 1,717,081; June 11.
- Compressor and the like. C. F. Hall. 1,738,104; Dec. 3.
- Compressor, Cake. C. C. Bryant. 1,711,039; Apr. 30.
- Compressor, Centrifugal. C. Ducas. 1,697,387; Jan. 1.
- Compressor, Compound reciprocating. H. Hoppler. 1,724,934; Aug. 20.
- Compressor construction for refrigerating devices. R. M. Hvid. 1,703,108; Feb. 26.
- Compressor construction for refrigerating devices. R. M. Hvid. 1,712,826; May 14.
- Compressor-control device. E. E. Hewitt. 1,711,641; May 7.
- Compressor-controlling device. F. H. Parke. 1,723,203; Aug. 6.
- Compressor-controlling device. C. D. Stewart. 1,707,285; Apr. 2.
- Compressor, Double-acting lubricant. E. Piquerez. 1,723,253; Aug. 6.
- Compressor driven by internal-combustion engines. T. K. A. Nordensson. 1,741,731; Dec. 31.
- Compressor, Fluid. F. M. Bennett. 1,724,553; Aug. 13.
- Compressor, Fluid. H. B. Halvorsen. 1,707,304; Apr. 2.
- Compressor, Fluid. J. Machtflo. 1,729,430; Sept. 24.



- Compressor for refrigerating machines. C. P. Brockway. 1,730,116; Oct. 1.
- Compressor, Lubricant. E. W. Davis. 1,700,471; Jan. 29.
- Compressor, Lubricant. E. W. Davis. 1,723,269; Aug. 6.
- Compressor, Lubricant. E. W. Davis. 1,725,257; Aug. 20.
- Compressor, Lubricant. E. W. Davis and G. F. Thomas. 1,714,260; May 21.
- Compressor, Lubricant. D. F. Fesler. 1,705,285; Mar. 12.
- Compressor, Lubricant. D. F. Fesler. 1,720,890; July 16.
- Compressor, Lubricant. R. W. Foyle. 1,697,234; Jan. 1.
- Compressor, Lubricant. R. W. Foyle. 1,703,304; Feb. 26.
- Compressor, Lubricant. E. F. Pierce. 1,704,338; Mar. 5.
- Compressor, Lubricant. E. F. Pierce. 1,716,504; June 11.
- Compressor, Lubricant. E. F. Pierce and J. B. Nims. 1,720,376; July 9.
- Compressor, Lubricant. E. Piquerez. 1,711,905; May 7.
- Compressor, Lubricant. O. U. Zerk. 1,700,527; Jan. 29.
- Compressor, Lubricant. O. U. Zerk. 1,703,286; Feb. 26.
- Compressor, Lubricant. O. U. Zerk. 1,708,041; Apr. 9.
- Compressor, Lubricant. O. U. Zerk. 1,710,719; Apr. 30.
- Compressor, Lubricant. O. Zerk. 1,720,873; July 16.
- Compressor mechanism. F. D. Holdsworth. 1,708,175; Apr. 9.
- Compressor-operating means. E. F. Peterson. 1,736,507; Nov. 19.
- Compressor or motor. N. A. Christensen. 1,715,408; June 4.
- Compressor or water pump, Multistage air. T. Westgard. 1,698,287; Jan. 8.
- Compressor outfit. F. D. Holdsworth. 1,731,572; Oct. 15.
- Compressor outfit, Portable. F. D. Holdsworth. 1,738,650; Dec. 10.
- Compressor, Player-piano-roll. W. L. Patton. 1,712,163; May 7.
- Compressor, pump, and the like, Rotary. H. S. Broom. 1,704,240; Mar. 5.
- Compressor, Rim. W. C. Van Voorhis. 1,728,706; Sept. 17.
- Compressor, Rotary. W. E. Shore. 1,715,629; June 4.
- Compressor, Rotary. H. Weber. 1,705,653; Mar. 19.
- Compressor, Rotary. E. Wilson. 1,719,954; July 9.
- Compressor, Rotary air. H. S. Hele-Shaw and T. E. Beacham. Re17,298; May 21.
- Compressor, Spring. S. J. Denton. 1,718,121; June 18.
- Compressor, Spring. J. Sunnen. 1,720,802; July 16.
- Compressor, Tube. F. S. Hyatt. 1,715,924; June 4.
- Compressor, Universal piston-ring. E. D. Murphy. 1,702,914; Feb. 19.
- Compressor-unloading means. H. B. Halvorsen. 1,708,171; Apr. 9.
- Compressor, Valve-spring. L. M. Halden. 1,701,672; Feb. 12.
- Compressor, Valve-spring. H. W. Lohofener. 1,699,500; Jan. 15.
- Compressor, Variable-capacity. M. Riesner. 1,704,343; Mar. 5.
- Compressor, Variable-capacity-control. L. Buehler, jr. 1,740,967; Dec. 24.
- Compressors, Cooling. B. S. Aikman. 1,714,836; May 28.
- Compressors, Initial-starting unloader for air. M. Riesner. 1,741,117; Dec. 24.
- Compressors, Unloading device for. C. C. Farmer. 1,709,906; Apr. 23.
- Computer, Data. J. C. Karnes. 1,699,202; Jan. 15.
- Computing and dispensing apparatus, Liquid. T. B. Smith. 1,726,370; Aug. 27.
- Computing mechanism. E. B. Locks. 1,704,200; Mar. 5.
- Computing machine. A. G. Kupetz. 1,697,981; Jan. 8.
- Computing machine. S. L. Walsoe. 1,738,977; Dec. 10.
- Computing-machine housing. J. P. Luseri. Des. 79,524; Oct. 1.
- Computing machines and the like, Data-sheet holder for. O. F. Vose. 1,715,259; May 28.
- Computing scale. W. R. Mittendorf. 1,713,774; May 21.
- Computing variables, Method of and instrument for. A. E. Young. 1,737,746; Dec. 3.
- Concentrates from natural milky juices such as latex, Making reversible. P. Scholz. 1,729,522; Sept. 24.
- Concentrates, Obtaining heavy granular. A. B. Jones. 1,721,452; July 16.
- Concentrating acetic acid. H. Suida. 1,703,020; Feb. 19.
- Concentrating apparatus. G. H. Passelecq. 1,711,614; May 7.
- Concentrating manganese ore. H. and A. J. Trumbo. 1,710,522; Apr. 23.
- Concentrating table. M. J. Lide. 1,696,918; Jan. 1.
- Concentrating table. M. J. Lide. 1,723,795; Aug. 6.
- Concentration of copper ores. J. A. Holladay. 1,706,293; Mar. 19.
- Concentrator. V. P. Roe. 1,723,711; Aug. 6.
- Concentrator. A. H. Stebbins. 1,712,589; May 14.
- Concentrator. J. Stephan. 1,704,265; Mar. 5.
- Concentrator, Centrifugal. R. M. Wendel. 1,712,184; May 7.
- Concentrator, Centrifugal. K. T. R. Lundgren. 1,736,792; Nov. 26.
- Concentrator deck. A. H. Stebbins. 1,706,552; Mar. 26.
- Concentrator, Dry. J. H. Macartney. 1,733,380; Oct. 29.
- Concertina action. O. Glass. 1,737,839; Dec. 3.
- Concrete and making the same, Lightweight. R. Cross and W. A. Collings. 1,710,921; Apr. 30.
- Concrete apparatus, Clamping-form. S. S. Colt. 1,726,542; Sept. 3.
- Concrete bar. S. Rogow. 1,709,441; Apr. 16.
- Concrete-beam construction, Precast. R. Sahlberg. 1,720,693; July 16.
- Concrete beam, Structural. W. H. Evers and J. W. Shimek. 1,701,841; Feb. 12.
- Concrete block for paving and the like, Protected. F. S. Honberger. 1,729,256; Sept. 24.
- Concrete-block mold, Hand-operated. E. J. Garvin and J. B. Johnson. 1,717,676; June 18.
- Concrete blocks, Making. R. R. Kenworthy. 1,723,043; Aug. 6.
- Concrete building construction. W. R. Sproul and H. Layer. 1,727,791; Sept. 10.
- Concrete building construction. J. W. Thompson. 1,737,526; Nov. 26.
- Concrete building construction. J. Winston. 1,697,744; Jan. 1.
- Concrete buildings, Formation of. E. W. Rose. 1,730,533; Oct. 8.
- Concrete column, Reinforced-. J. B. Platt. 1,705,028; Mar. 12.
- Concrete, Composition of and method of producing. H. F. Adams. 1,737,906; Dec. 3.
- Concrete construction. I. Hellerman. 1,708,696; Apr. 9.
- Concrete construction. O. A. Hollis. 1,703,819; Feb. 26.
- Concrete construction. N. C. Johnson. 1,728,936; Sept. 24.
- Concrete construction, Automatically-operated sliding forms for. J. M. Gurley. 1,730,727; Oct. 8.
- Concrete construction, Mechanism for. J. A. Pollock and J. W. Cawthon. 1,723,631; Aug. 6.
- Concrete construction, Supporting structure for. J. C. Kepple. 1,707,226; Apr. 2.
- Concrete cribbing. Reinforced-. J. M. Fitzgerald. 1,703,303; Feb. 26.
- Concrete cribbing. C. Gilman. 1,733,790; Oct. 29.
- Concrete culvert. S. B. Moore. 1,734,392; Nov. 5.
- Concrete-distributing apparatus, Boom bucket-control mechanism for. G. E. Webb. 1,731,691; Oct. 15.
- Concrete distributors, Bucket-operating mechanism for. J. C. Lukachovic. 1,738,012; Dec. 3.
- Concrete floor construction. W. M. Goldsmith. 1,729,612; Oct. 1.
- Concrete flooring member, Ferro-. M. M. E. Lancrenon. 1,729,001; Sept. 24.
- Concrete floors or the like, Method of and apparatus for forming. J. W. and H. Holdsworth. 1,739,231; Dec. 10.
- Concrete for safes, strong rooms, and the like, Reinforced. H. S. Bruckshaw. 1,714,073; May 21.
- Concrete form. F. O. Heltzel. 1,697,765; Jan. 1.
- Concrete form. J. N. Heltzel. 1,722,144; July 23.
- Concrete form. J. W. Heltzel. 1,700,798; Feb. 5.
- Concrete-form apparatus. W. G. Venard. 1,707,336; Apr. 2.
- Concrete-form system. C. R. League. 1,704,898; Mar. 12.
- Concrete-form tie and spacer. D. B. Smith. 1,720,697; July 16.
- Concrete-form tie and spacer. D. B. Smith. 1,735,017; Nov. 12.
- Concrete forms, Apparatus for constructing. H. H. Too-good. 1,702,671-2; Feb. 19.
- Concrete-grooving device. J. W. Heltzel. 1,726,665; Sept. 3.
- Concrete insert. T. K. Cummins. 1,722,241-2; July 23.
- Concrete insert. O. L. Downing. 1,704,593; Mar. 5.
- Concrete insert. L. R. Zifferer. 1,704,779; Mar. 12.
- Concrete joint form. P. J. McInerney. Re17,465; Oct. 22.
- Concrete machines, Feed wheel for pneumatic. A. T. Cassiere. 1,735,233; Nov. 12.
- Concrete, Making. M. S. Weaver. 1,704,156; Mar. 5.
- Concrete, Manufacturing cellular. J. A. Rice. 1,717,319; June 11.
- Concrete, Manufacture of. M. Levy. 1,699,705; Jan. 22.
- Concrete materials, Apparatus for handling. J. A. Bried. 1,730,912; Oct. 8.
- Concrete mixer. C. M. Eberling. 1,699,230; Jan. 15.
- Concrete mixer. M. Gilson. 1,698,542; Jan. 8.
- Concrete mixer. J. M. Owen. 1,724,850; Aug. 13.
- Concrete mixer. A. W. Rybeck. 1,727,359; Sept. 10.
- Concrete mixer. C. H. Scott. 1,737,522; Nov. 26.
- Concrete mixer. E. B. Spiegel. 1,728,086; Sept. 10.
- Concrete mixers, Charging device for. G. T. Allen. 1,729,602; Oct. 1.
- Concrete mixers, Loader-controlling means for. G. Jaeger. 1,708,096; Apr. 9.
- Concrete mixing and spreading machine. E. H. Lichtenberg. 1,724,033; Aug. 13.
- Concrete mixture water-supply means. F. H. Heine. 1,736,744; Nov. 19.
- Concrete mold. F. J. Mead. 1,724,035; Aug. 13.
- Concrete mold. C. M. Showers. 1,736,376; Nov. 19.
- Concrete molds, Combination tie and spreader for. J. C. Nelson. 1,712,631; May 14.
- Concrete ore-bunker plant. J. Bock. 1,707,898; Apr. 2.
- Concrete pavements, etc., Forming. R. D. Gregg. 1,726,222; Aug. 27.
- Concrete pavements, Laying. P. A. Hipple. 1,705,038; Mar. 12.
- Concrete-placing machine, Pneumatic. J. E. Bushnell. 1,707,653; Apr. 2.
- Concrete, Preparing. G. W. Hutchinson. 1,724,403; Aug. 13.
- Concrete, Proportioning total water in. C. S. Johnson. 1,731,781; Oct. 15.
- Concrete reinforcement, Tensioned. H. Sorensen. 1,716,710; June 11.



- Concrete reinforcement. W. E. White. 1,724,444; Aug. 13.  
 Concrete-road-finishing machine. E. H. Lichtenberg. 1,736,412-13; Nov. 19.  
 Concrete slab-structure, Reinforced-. S. J. Branson. 1,729,261; Sept. 24.  
 Concrete-spreading machine. J. F. Robb. 1,724,043; Aug. 13.  
 Concrete-steel construction. F. M. Barton. 1,708,352; Apr. 9.  
 Concrete structure. R. P. Durham. 1,722,970; July 30.  
 Concrete structure. J. J. Morgan. 1,729,118; Sept. 24.  
 Concrete structure. D. J. O'Brien. 1,698,557; Jan. 8.  
 Concrete structure, Method and apparatus for grouting. J. L. Savage. 1,726,414; Aug. 27.  
 Concrete structure, Reinforced-. H. C. Ritchie. 1,738,614; Dec. 10.  
 Concrete structures against leaking fractures, Safeguarding. E. R. Oden. 1,740,110; Dec. 17.  
 Concrete structures, Metal-reinforcement. H. Weston. 1,727,147; Sept. 3.  
 Concrete structures, Producing. A. E. Schutte. 1,733,699; Oct. 29.  
 Concrete subsleepers, Method and apparatus for forming. H. I. Killion. 1,704,135; Mar. 5.  
 Concrete surfacing joint and forming the same. J. N. Heltzel. 1,697,563; Jan. 1.  
 Concrete tank construction. G. C. Evans. 1,740,011; Dec. 17.  
 Concrete wall and structure. F. S. Crozier. 1,709,778; Apr. 16.  
 Concrete wall construction. C. E. McCartney. 1,729,293; Sept. 24.  
 Concrete walls and floors of steel and concrete frame buildings, Method of and apparatus for pouring. W. E. Keller. 1,701,113; Feb. 5.  
 Concrete walls, Constructing hollow. W. T. Redman. 1,712,678; May 14.  
 Concrete-working apparatus. E. G. Carr. 1,715,739; June 4.  
 Condensate from steam-heated rollers, Removing. G. S. Johnson. 1,709,581; Apr. 16.  
 Condensation of mixed aldehydes. R. H. Van Schaack, jr. 1,700,103; Jan. 22.  
 Condensation on transparent partitions between regions of different temperatures, Preventing. R. J. Mitchell and A. T. Hawkins. 1,725,664; Aug. 20.  
 Condensation preventer for windows. C. Waswo and C. M. Schenck. 1,729,808; Oct. 1.  
 Condensation, Process and apparatus for fractional. F. D. Fenhagen, F. H. Rhodes, and T. M. Hesser. 1,735,453; Nov. 12.  
 Condensation product containing sulphur. P. Virck. 1,736,063; Nov. 19.  
 Condensation product from p-halogenated phenolic compounds and aldehydes. M. Weiler, B. Wenk, and H. Stötter. 1,707,181; Mar. 26.  
 Condensation product of the anthraquinone series and making same. F. Ackermann and P. Schetelig. 1,719,792; July 2.  
 Condensation product of the anthraquinone series and making same. G. Kränzlein, and R. Sedlmayr. 1,736,084; Nov. 19.  
 Condensation products from olefines and hydrocarbons of the naphthalene series and making same. R. Michel. Re17,548; Dec. 31.  
 Condensation products from reaction products of sulphur dichloride and primary arylamines. R. Herz. 1,699,432; Jan. 15.  
 Condensation products, Manufacture of. R. Michel. 1,741,473; Dec. 31.  
 Condensation products of the anthraquinone series, Obtaining. G. Reddellen and W. Müller. 1,717,809; June 18.  
 Condensation products of the benzodiazine series and making same. W. Hentrich, M. Hardtmann, and R. Knoche. 1,724,086; Aug. 13.  
 Condenser. T. A. E. Belt. 1,731,884; Oct. 15.  
 Condenser. R. B. Benjamin. 1,709,601; Apr. 16.  
 Condenser. C. A. Birch-Field. 1,736,823; Nov. 26.  
 Condenser. A. J. Carter. 1,723,132; Aug. 6.  
 Condenser. T. C. Deutschmann. 1,735,381; Nov. 12.  
 Condenser. E. D. Eby. 1,731,890; Oct. 15.  
 Condenser. W. Dubilier. 1,718,278; June 25.  
 Condenser. W. Dubilier. 1,722,325; July 30.  
 Condenser. W. Dubilier. 1,737,752; Dec. 3.  
 Condenser. R. N. Ehrhart. Re17,433; Sept. 17.  
 Condenser. M. O. Frederickson. 1,698,190; Jan. 8.  
 Condenser. J. A. Fried. 1,707,959; Apr. 2.  
 Condenser. J. A. Gibb. 1,727,403; Sept. 10.  
 Condenser. G. A. Gillen. 1,741,152; Dec. 31.  
 Condenser. J. F. Grace. 1,717,771; June 18.  
 Condenser. J. F. Grace. 1,733,993; Oct. 29.  
 Condenser. P. R. Gray. 1,728,284; Sept. 17.  
 Condenser. F. Hodgkinson. 1,710,733; Apr. 30.  
 Condenser. A. A. Kent. 1,713,134; May 14.  
 Condenser. A. M. Knudsen. 1,719,293; July 2.  
 Condenser. J. L. Merrill. 1,716,731; June 11.  
 Condenser. R. B. Morris and H. Peterson. 1,738,194; Dec. 3.  
 Condenser. E. V. Oliver. 1,723,575; Aug. 6.  
 Condenser. A. B. Reavis. 1,710,712; Apr. 30.  
 Condenser. F. O. Rick. 1,702,020; Feb. 12.  
 Condenser. W. H. Schumarty. 1,733,999; Oct. 29.  
 Condenser. W. S. Shenefield. 1,703,368; Feb. 26.  
 Condenser. J. H. Smith. 1,721,261; July 16.  
 Condenser. R. H. Sullivan. 1,726,774; Sept. 3.  
 Condenser. C. D. Tuska. 1,708,110; Apr. 9.  
 Condenser. C. D. Tuska and P. H. Spencer. 1,708,527; Apr. 9.  
 Condenser. L. J. Werner. 1,740,131; Dec. 17.  
 Condenser. T. C. Whitehead and F. J. Heldeman. 1,713,109; May 14.  
 Condenser. J. H. Wilhelm. 1,717,429; June 18.  
 Condenser. Z. Wirt. 1,728,740; Sept. 17.  
 Condenser, Adjustable. C. A. Brokaw. 1,729,704; Oct. 1.  
 Condenser, Adjustable. R. A. Pfeiffer. 1,698,997; Jan. 15.  
 Condenser, Adjustable electrical. H. W. Houck. 1,715,319; May 23.  
 Condenser, Adjustable vacuum. W. Dubilier. 1,738,175; Dec. 3.  
 Condenser, Ammonia. J. H. Beckman. 1,716,681; June 11.  
 Condenser and indicator, Combined electric. H. F. Herman. 1,718,783; June 25.  
 Condenser and liquid receiver. R. L. Alexander. 1,721,654; July 23.  
 Condenser and making the same, Electrical. H. I. Danziger. 1,726,343; Aug. 27.  
 Condenser and making the same, Electrical. H. F. Schecker. 1,736,764; Nov. 19.  
 Condenser and process. W. H. Priess. 1,721,503; July 23.  
 Condenser and process, Electrical. G. W. Pickard. 1,706,816; Mar. 26.  
 Condenser and resistance unit, Combination. E. B. Nowosielski. 1,741,138; Dec. 24.  
 Condenser, Apparatus for manufacturing electrical. R. H. Hoyt. 1,715,035; May 28.  
 Condenser-assembling machine. C. Horton, H. R. Van Deventer, and A. C. Heiny. 1,740,177; Dec. 17.  
 Condenser assembly. C. C. Spreen. 1,711,702; May 7.  
 Condenser boiler. A. R. Smith. 1,740,318; Dec. 17.  
 Condenser. Cotton. W. L. Hancock and J. Blewett. 1,697,647; Jan. 1.  
 Condenser. Cotton. A. S. Mackenzie. 1,740,990; Dec. 24.  
 Condenser, Counterflow. H. D. Hughes. 1,700,498; Jan. 29.  
 Condenser, Duplicate head shell and tube. T. Shipley. 1,739,018; Dec. 10.  
 Condenser, Electric. C. W. Rice. 1,714,890; May 28.  
 Condenser, Electric. A. A. Thomas. 1,737,741; Dec. 3.  
 Condenser, Electric. H. R. Van Deventer. 1,718,185; June 18.  
 Condenser, Electrical. W. M. Bailey. 1,725,123; Aug. 20.  
 Condenser, Electrical. V. Bush. 1,709,427; Apr. 16.  
 Condenser, Electrical. W. Dubilier. 1,710,412; Apr. 23.  
 Condenser, Electrical. W. Dubilier. 1,713,867; May 21.  
 Condenser, Electrical. W. Dubilier. 1,731,653; Oct. 15.  
 Condenser, Electrical. A. Ebel. 1,719,879; July 9.  
 Condenser, Electrical. J. C. Gabriel and G. M. Thurston. 1,722,083; July 23.  
 Condenser, Electrical. W. A. Graham. 1,721,152; July 16.  
 Condenser, Electrical. W. W. Hoover and M. E. Sparrow. 1,717,154; June 11.  
 Condenser, Electrical. M. Klein. 1,708,764; Apr. 9.  
 Condenser, Electrical. W. S. Lemmon. 1,702,833; Feb. 19.  
 Condenser, Electrical. F. W. McDonell. 1,734,178; Nov. 5.  
 Condenser, Electrical. L. E. Menut. 1,715,560; June 4.  
 Condenser, Electrical. J. M. Miller. 1,724,499; Aug. 13.  
 Condenser, Electrical. J. Ornstein. 1,738,195; Dec. 3.  
 Condenser, Electrical. J. A. Proctor and W. M. Bailey. 1,697,477; Jan. 1.  
 Condenser, Electrical. J. A. Proctor and W. M. Bailey. 1,738,314; Dec. 3.  
 Condenser, Electrical. S. Ruben. 1,710,073; Apr. 23.  
 Condenser, Electrical. S. Ruben. 1,714,191; May 21.  
 Condenser, Electrical. S. Ruben. 1,715,789; June 4.  
 Condenser, Electrical. J. C. Snell. 1,739,050; Dec. 10.  
 Condenser, Electrical. F. M. Squire. 1,712,011; May 7.  
 Condenser, Electrical. B. v. Wysocki. 1,736,811; Nov. 26.  
 Condenser, Electrolytic. E. F. Andrews. 1,717,488; June 18.  
 Condenser, Electrolytic. H. N. Miller. 1,703,680; Feb. 26.  
 Condenser, Electrostatic. W. Dubilier. 1,731,652; Oct. 15.  
 Condenser, Electrostatic. S. Ruben. 1,714,319; May 21.  
 Condenser, Fixed. S. J. Wood and H. A. Greene, jr. 1,727,581; Sept. 10.  
 Condenser for cotton gins. E. Corbin. 1,729,282; Sept. 24.  
 Condenser for locomotives. F. Ljungström and A. Lysholm. 1,724,357; Aug. 13.  
 Condenser for radio apparatus, Variable. J. F. Alvin. 1,707,455; Apr. 2.  
 Condenser for refrigerating apparatus. H. A. Greenwald. 1,722,699; July 30.  
 Condenser for refrigerating machines. R. M. Hyde. 1,709,176; Apr. 16.  
 Condenser for refrigerating machines. R. M. Hyde. 1,719,887; July 9.  
 Condenser for zinc vapors from electric furnaces. F. Tharaldsen. 1,715,960; June 4.  
 Condenser, Fractionating. D. T. Williams. 1,723,637; Aug. 6.  
 Condenser, Gang-control. E. G. Danielson. 1,719,239; July 2.  
 Condenser having increased pitch of flow. N. H. Gay. 1,726,617; Sept. 3.  
 Condenser having indicating means combined therewith, Electric. H. F. Herman. 1,725,639; Aug. 20.



- Condenser, Ignition. L. F. Curtis and J. F. Martin. 1,726,543; Sept. 3.
- Condenser, Microscope. L. V. Foster. 1,716,308; June 4.
- Condenser, Multiple. C. Pfanstiehl. 1,712,165; May 7.
- Condenser, Neutralizing. H. F. Elliott. 1,728,201; Sept. 17.
- Condenser preheater. F. Hodgkinson. 1,721,251; July 16.
- Condenser, Radial-flow. D. W. R. Morgan. 1,710,707; Apr. 30.
- Condenser, Scoop. D. W. R. Morgan. 1,721,277; July 16.
- Condenser, Smoke. J. M. Hill. 1,740,594; Dec. 24.
- Condenser, stabilizer, fractionator, and dehydrator, Gasoline. H. E. Otto. 1,728,440; Sept. 17.
- Condenser, Static. J. J. Aurynger. 1,697,258; Jan. 1.
- Condenser, Steam. C. E. Lucke. 1,733,986; Oct. 29.
- Condenser structure. C. E. Warner and A. N. Nilson. 1,709,964; Apr. 23.
- Condenser, Surface. R. N. Ehrhart. 1,700,106; Jan. 22.
- Condenser, Surface. O. Frey. 1,729,309; Sept. 24.
- Condenser, Surface. J. F. Grace. 1,704,471; Mar. 5.
- Condenser, Surface. J. F. Grace. 1,717,770; June 18.
- Condenser, Surface. J. F. Kirgan. 1,713,534; May 21.
- Condenser, Surface. J. F. Kirgan. 1,713,967; May 21.
- Condenser, Surface. J. F. Kirgan. 1,718,466; June 25.
- Condenser, Surface. J. F. Kirgan. 1,719,183; July 2.
- Condenser, Surface. J. F. Kirgan. 1,724,138; Aug. 13.
- Condenser, Surface. C. A. Parsons. 1,699,987; Jan. 22.
- Condenser, Surface. P. Spiess. 1,711,332; Apr. 30.
- Condenser system. R. E. Marbury. 1,730,858; Oct. 8.
- Condenser, Tape. J. F. Schimek. 1,709,881; Apr. 23.
- Condenser terminal or clamp. E. Pfiffner. 1,702,413; Feb. 19.
- Condenser, Variable. J. T. B. Blough and E. E. Chronister. 1,735,889; Nov. 19.
- Condenser, Variable. C. P. Brockway. 1,717,912; June 18.
- Condenser, Variable. E. G. Danielson. 1,103,574; Feb. 26.
- Condenser, Variable. O. C. Deutscher. 1,733,337; Oct. 29.
- Condenser, Variable. D. R. De Tar. 1,706,148; Mar. 19.
- Condenser, Variable. W. J. Dow. 1,719,600; July 2.
- Condenser, Variable. W. Dubilier. 1,705,242; Mar. 12.
- Condenser, Variable. W. Dubilier. 1,714,662; May 28.
- Condenser, Variable. W. Dubilier. 1,722,326; July 30.
- Condenser, Variable. W. Dubilier. 1,735,532; Nov. 12.
- Condenser, Variable. W. Dubilier. 1,740,159; Dec. 17.
- Condenser, Variable. C. Hardy. 1,700,222; Jan. 29.
- Condenser, Variable. C. Hardy. 1,700,259; Jan. 29.
- Condenser, Variable. H. H. Ide. 1,697,506; Jan. 1.
- Condenser, Variable. H. H. Ide. 1,735,435; Nov. 12.
- Condenser, Variable. V. D. Landon. 1,730,853; Oct. 8.
- Condenser, Variable. G. Merle, sr. 1,699,304; Jan. 15.
- Condenser, Variable. G. Merle, sr. 1,701,928; Feb. 12.
- Condenser, Variable. A. Nyman. 1,724,884; Aug. 13.
- Condenser, Variable. P. F. Shivers. 1,702,061; Feb. 12.
- Condenser, Variable. J. W. Simmons. 1,709,959; Apr. 23.
- Condenser, Variable. M. Skrivaneck. 1,712,359; May 7.
- Condenser, Variable. J. W. Storer. 1,704,845; Mar. 12.
- Condenser, Variable. H. R. Van Deventer. 1,712,097; May 7.
- Condenser, Variable. C. Zwicker. 1,733,711; Oct. 29.
- Condenser, Variable air. L. L. Jones. 1,704,004; Mar. 5.
- Condenser, Variable air. L. L. Jones and C. Hardy. 1,706,735; Mar. 26.
- Condenser, Variable air. L. G. Pacent and C. F. Goudy. 1,705,734; Mar. 19.
- Condenser, Variable-arc fin. H. J. Willhagen. 1,715,880; June 4.
- Condenser, Variable oscillation. M. G. de Simone. 1,718,538; June 25.
- Condenser, Variable rotary. D. R. Lovejoy. 1,729,726; Oct. 1.
- Condenser, Variable tuning. H. Sponberg. 1,733,281; Oct. 29.
- Condenser, Vertical shell and tube. T. Shipley. 1,705,546; Mar. 19.
- Condensers, Apparatus for manufacturing multiplate. J. W. Goldhamer. 1,713,696; May 21.
- Condensers, Mechanism for adjusting. H. O. Farrington. 1,711,931; May 7.
- Condensers, Support for variable. C. Pfanstiehl. 1,701,244; Feb. 5.
- Condensing apparatus. C. E. Lucke. 1,704,484; Mar. 5.
- Condensing apparatus. M. Spillmann. 1,719,909; July 9.
- Condensing apparatus. U. A. Taddiken. 1,721,287; July 16.
- Condiment shaker. S. Skotnik. 1,741,742; Dec. 31.
- Conditioning articles of manganese steel. G. R. Hanks. 1,701,976; Feb. 12.
- Conductor. S. S. Hartley. 1,704,603; Mar. 5.
- Conductor and making same, Rubber coated. E. W. Engle. 1,729,160; Sept. 24.
- Conductor and reel, Electrical extension. W. G. Wheat. 1,730,104; Oct. 1.
- Conductor clamp. W. R. Ellis. 1,699,781; Jan. 22.
- Conductor clamp. N. A. Wahlberg. 1,705,693; Mar. 19.
- Conductor, Composite. V. E. Legg. 1,719,479; July 2.
- Conductor, Composite. V. E. Legg. 1,727,550; Sept. 10.
- Conductor, Electric. J. H. White. 1,725,773; Aug. 27.
- Conductor, Electrical. N. H. Adams. 1,731,218; Oct. 8.
- Conductor for oil tanks, Foam. B. A. Moeller. 1,733,551; Oct. 29.
- Conductor for overhead transmission lines, Hollow rope. A. Schalkau. 1,723,812; Aug. 6.
- Conductor for signaling purposes, Electric. U. Meyer. 1,741,644; Dec. 31.
- Conductor hanger. A. Vaupel. 1,705,691; Mar. 19.
- Conductor, Hollow. W. H. Bassett. Re17,296; May 21.
- Conductor, Leading in. G. Holst, J. Bergmans, and C. Bol. 1,734,809; Nov. 5.
- Conductor, Loaded. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,710,805; Apr. 30.
- Conductor, Sheathed electrical. O. A. Frederickson. 1,727,762; Sept. 10.
- Conductor, Signaling. C. Martell. 1,722,436; July 30.
- Conductor support for lift bridges and the like. W. G. Williams. 1,729,637; Oct. 1.
- Conductor suspension clamp. B. A. Plimpton. 1,736,508; Nov. 19.
- Conduit. W. J. Leary. 1,718,468; June 25.
- Conduit. W. J. Leary. 1,725,088; Aug. 20.
- Conduit. R. H. Wallace. 1,723,986; Aug. 6.
- Conduit and circuit-grounding fitting. W. H. Vibber. 1,733,475; Oct. 29.
- Conduit and making the same, Composite. F. B. Allen. 1,733,573; Oct. 29.
- Conduit box. T. A. Crotty. 1,725,853; Aug. 27.
- Conduit broach. H. Parker. 1,733,512; Oct. 29.
- Conduit-building apparatus. T. E. Murray and G. K. Jessup. 1,707,446; Apr. 2.
- Conduit construction. J. Kjekstad. 1,700,319; Jan. 29.
- Conduit construction. G. R. Metcalf, jr. 1,712,895; May 14.
- Conduit construction, Electrical. B. O. Widell. 1,729,315; Sept. 24.
- Conduit coupling, Electrical. C. H. Hagstedt. 1,697,815; Jan. 1.
- Conduit coupling. H. K. Sweney. 1,739,472; Dec. 10.
- Conduit elbow. J. W. Hooley. 1,700,983; Feb. 5.
- Conduit fitting. M. L. Ansel. 1,735,663; Nov. 12.
- Conduit fitting. J. C. Boyton. 1,735,196; Nov. 12.
- Conduit fitting. J. W. Cox. 1,700,195; Jan. 29.
- Conduit fitting. J. W. Cox. 1,720,072; July 9.
- Conduit fitting. J. W. Cox. 1,726,808-9; Sept. 3.
- Conduit fitting. J. W. Cox. 1,740,767; Dec. 24.
- Conduit fitting. R. P. Dunmire. 1,736,149; Nov. 19.
- Conduit fitting. R. P. Dunmire. 1,739,953; Dec. 17.
- Conduit fitting. R. P. Dunmire and D. E. Kellogg. 1,736,150; Nov. 19.
- Conduit fitting. D. E. Kellogg. 1,716,587; June 11.
- Conduit fitting. D. E. Kellogg. 1,716,641; June 11.
- Conduit fitting. G. R. Metcalf, jr. 1,710,060; Apr. 23.
- Conduit fitting. H. A. Selah. 1,736,888; Nov. 26.
- Conduit fitting. H. A. Selah. 1,738,969; Dec. 10.
- Conduit fitting, Threadless. F. W. Erickson. 1,711,995; May 7.
- Conduit for conveying high-temperature fluids. F. P. Coffin. 1,714,948; May 28.
- Conduit for dust-collecting systems. R. E. Callier. 1,710,145; Apr. 23.
- Conduit-grounding bushing. W. H. Vibber. 1,728,280; Sept. 17.
- Conduit structure. F. C. Blanchard. 1,713,640; May 21.
- Conduit, Wall. H. N. Putnam. 1,718,252-4; June 25.
- Conduit, Waterproof. D. D. Tracy. 1,731,991; Oct. 15.
- Conduits, Making. C. H. Seifert. 1,713,881; May 21.
- Conduits, Method and apparatus for repairing leaky. J. W. Van Denburg. 1,736,293; Nov. 19.
- Conduits, Reducer for fibrous. H. Parker. 1,722,676; July 30.
- Conduits, Throttling arrangement for. T. Stein. 1,725,679; Aug. 20.
- Cone: See—
- Wind cone.
- Cone-belt-shifting mechanism. N. E. Goodactive. 1,717,506; June 18.
- Cone bit. A. J. Simpson. 1,730,301; Oct. 1.
- Cone dispenser. A. R. Cicerchi. 1,699,425; Jan. 15.
- Cone remover and trimmer. E. Rolker. 1,741,656; Dec. 31.
- Cone-rolling machine. C. R. Taylor. 1,720,304; July 9.
- Confection. L. W. Stetson. 1,700,387; Jan. 29.
- Confection and process of manufacture, Frozen. J. R. Crain. 1,737,919; Dec. 3.
- Confection and producing same, Frozen. F. W. Epperson. 1,738,879; Dec. 10.
- Confection-coating machine. A. L. Bausman. 1,711,716; May 7.
- Confection-dipping machine. P. Sisco. 1,699,815; Jan. 15.
- Confection, Frozen. H. B. Burt. 1,718,997; July 2.
- Confection implement. W. E. Wilson. 1,714,834; May 28.
- Confectionery-making apparatus. F. W. Epperson. 1,734,765; Nov. 5.
- Confections and machine for carrying out such method, Forming. S. Cooper. 1,724,563; Aug. 13.
- Confections, Apparatus for coating. H. W. Harper. 1,711,599; May 7.
- Congee and sizer, Combined. J. Becker. 1,701,744; Feb. 12.
- Connector. C. W. Dake. 1,699,690; Jan. 22.
- Connector. C. W. Dake. 1,714,590; May 28.
- Connector. R. A. Goeller. 1,710,416; Apr. 23.
- Connector. E. A. Goeller. 1,712,108; May 7.
- Connector. L. McCracken. 1,737,506; Nov. 26.
- Connector. C. L. Stoeltzen. 1,739,740; Dec. 17.
- Connector. R. B. Ziegler. 1,711,300; Apr. 30.
- Connector, Automatic train-pipe. J. Robinson. 1,738,484; Dec. 3.
- Connector, Battery cable. J. G. Wortham. 1,697,705; Jan. 1.
- Connector, Cable terminal. C. W. Doherty. 1,724,753; Aug. 13.



- Connector, Electric plug. H. H. Wermine. Des. 77,660; Feb. 5.
- Connector, Electrical. H. D'Olier, jr. 1,717,877; June 18.
- Connector fitting for insulators. A. O. Austin. 1,709,825; Apr. 23.
- Connector, Flexible. T. I. Duffy. 1,703,756; Feb. 26.
- Connector, Flexible. J. R. Gammeter. 1,709,207; Apr. 16.
- Connector for attaching electric cables or conduits to outlet boxes and the like. A. C. Recker. 1,725,883; Aug. 27.
- Connector for chain links. C. E. Dansereau. 1,713,821; May 21.
- Connector for dental work, Adjustable. W. N. Eggen. 1,700,124; Jan. 29.
- Connector for edgewise wound-resistance coils. G. H. Whittingham. 1,728,090; Sept. 10.
- Connector for rails. A. Weston. 1,735,307; Nov. 12.
- Connector for vehicle direction indication, Rotatable. J. J. Curley. 1,712,295; May 7.
- Connector for wristbands, End. A. Eklund. 1,725,786; Aug. 27.
- Connector, Furniture-covering-pad. J. Zitzerman. 1,712,320; May 7.
- Connector, Mechanical. E. B. Furry and F. M. Cowgill. 1,723,847; Aug. 6.
- Connector, Rail. J. Nagy. 1,729,449; Sept. 24.
- Connector, Resilient. T. P. Chase. 1,703,297; Feb. 26.
- Connector, Resilient. C. R. Short. 1,697,787; Jan. 1.
- Connector, Resilient. C. R. Short. 1,735,982; Nov. 19.
- Connector, Rotary. R. F. Stehlik. 1,716,986; June 11.
- Connector, Terminal. A. K. Phillipp. 1,702,451; Feb. 19.
- Connector, Wire-terminal. A. F. Waltz. 1,699,825; Jan. 22.
- Connectors for dry cells, Process and apparatus for forming. C. P. Deibel. 1,739,506; Dec. 17.
- Connecting block for electric-light clusters. V. R. Despard and H. C. R. Popp. 1,736,779; Nov. 26.
- Connecting device. E. J. Shaffer. 1,709,235; Apr. 16.
- Connecting device. P. Wilson. 1,717,903; June 18.
- Connecting device, Chain-. G. C. Abbe. 1,709,244; Apr. 16.
- Connecting device, Multiple electric. B. F. Conner. Des. 78,966; July 16.
- Connecting means for cables or the like. A. O. Austin. 1,723,836; Aug. 6.
- Connecting means for straps. A. W. Swanson. 1,702,855; Feb. 19.
- Connecting means for walls. B. F. Daman. 1,732,190; Oct. 15.
- Connecting rod. F. H. Godfrey. 1,741,621; Dec. 31.
- Connecting rod. J. C. Leary. 1,704,393; Mar. 5.
- Connecting rod. E. A. Nelson. 1,724,302; Aug. 13.
- Connecting rod. H. S. Pierce. 1,734,690; Nov. 5.
- Connecting rod. M. Riesner. 1,717,810; June 18.
- Connecting rod and method of making. F. N. Thieffels. 1,720,105; July 9.
- Connecting rod for radial-cylinder engines, Master. E. T. Jones. 1,723,175; Aug. 6.
- Connecting-rod structure. L. J. McKone. Re17,265; Apr. 9.
- Connecting switch, Section. G. E. Jansson. 1,725,983; Aug. 27.
- Connecting the parts of fractured bones with each other. Method of and apparatus for. P. Eimler. 1,717,766; June 18.
- Connecting the plates of electric condensers and the like to their supports. F. Horny. 1,697,316; Jan. 1.
- Connecting window regulators to windows, Device for. H. B. Haskins. 1,696,911; Jan. 1.
- Connection and making same, Angular conduit. B. C. Root. 1,727,413; Sept. 10.
- Connection, Brake-operating. R. S. Sanford. 1,728,255; Sept. 17.
- Connection, By-pass and filter. A. Champion. 1,727,808; Sept. 10.
- Connection device, Multiple-. H. B. Jones. 1,738,711; Dec. 10.
- Connection, Flexible. F. W. Martin and M. H. Roberts. 1,727,126; Sept. 3.
- Connection for high-tension cables, Safety. F. Zogbaum. 1,727,387; Sept. 10.
- Connection for motor vehicle panels, Flexible. A. F. Masury. 1,728,870-76; Sept. 17.
- Connection for motor vehicles, Flexible. H. W. Bell. 1,727,804; Sept. 10.
- Connection for vacuum cleaners, Dust-bag. T. O. Adams. 1,727,921; Sept. 10.
- Connection for veneered panels. J. Levine. 1,730,464; Oct. 8.
- Connection for wrench sockets and the like, Detachable. W. S. Bellows. 1,741,969; Dec. 31.
- Connections, Making. E. W. Cooper. 1,711,832; May 7.
- Connection, Resilient driving. W. R. Uggla. 1,728,844; Sept. 17.
- Connection, Water-tight electrical. L. Y. Spear. 1,731,597; Oct. 15.
- Connection, Yielding. W. C. Keys. 1,725,523; Aug. 20.
- Consistency meter. W. L. Merrill. 1,701,331; Feb. 5.
- Constant frequency wave source. W. A. Marrison. 1,702,568; Feb. 19.
- Constituents of gaseous elements, Apparatus for collecting and utilizing. J. N. Alsop. 1,719,353; July 2.
- Construction for breaking flow of heat through metal. P. T. Sealey. 1,733,758; Oct. 29.
- Construction material. R. P. Perry. 1,710,320; Apr. 23.
- Construction material. R. P. Perry and K. B. Howell. 1,698,733; Jan. 15.
- Construction of vehicle bodies. L. A. Wales. 1,719,150; July 2.
- Construction unit, Reinforced. J. T. Saltiel. 1,709,954; Apr. 23.
- Constructional element. E. J. Dewoitine. 1,710,350; Apr. 23.
- Constructional material. A. C. Fischer. Re17,369; July 9.
- Constructional material. A. C. Fischer. 1,726,612-3; Sept. 3.
- Contact and filter apparatus. W. D. Harris and R. V. Aycock. 1,707,672; Apr. 2.
- Contact bank, Multiple. K. Böhme. 1,697,222; Jan. 1.
- Contact between gases and divided solids, Apparatus for effecting. E. J. Brady. 1,731,223; Oct. 8.
- Contact clip, Electrical. S. Rutteneberg and W. C. Mierendorff. 1,724,729; Aug. 13.
- Contact construction. M. M. Samuels and J. Amon. 1,732,731; Oct. 22.
- Contact device for electric-clock systems. H. Schnurrenberger. 1,699,547; Jan. 22.
- Contact extension, Interchangeable. F. R. Paivio. 1,724,771; Aug. 13.
- Contact field for selectors, Multiple-. D. L. Lienzén. 1,726,156; Aug. 27.
- Contact finger for electrical controllers and switches. R. V. H. Russell. 1,699,858; Jan. 22.
- Contact for electrical heater plugs. J. P. Eastman. 1,735,533; Nov. 12.
- Contact for lamp hangers. A. J. Thompson. 1,732,622; Oct. 22.
- Contact, Horn-button. A. G. Geistert. 1,718,643; June 25.
- Contact-lever mechanism, Cam-actuated. E. R. Vontobel. 1,714,743; May 28.
- Contact-making gauge. D. R. Lovejoy. 1,737,973; Dec. 3.
- Contact mechanism. H. W. Cheney. 1,735,263; Nov. 12.
- Contact of the pin type. W. J. Gagnon. 1,702,158; Feb. 12.
- Contact regulator, Vibrating. F. Mauron. 1,699,900; Jan. 22.
- Contact structure for electric switches. G. A. Burnham. 1,697,340; Jan. 1.
- Contact switch, Liquid-. A. M. Disteli. 1,726,426; Aug. 27.
- Contact unit for typewriter-key punches. W. W. Lasker. 1,723,242; Aug. 6.
- Contacts for switches for lighting systems for automobile vehicles. H. A. Douglas. 1,700,310; Jan. 29.
- Container. H. H. Aldrich. 1,721,427; July 16.
- Container. C. J. Aulbach. 1,718,022; June 18.
- Container. O. M. Babcock. 1,704,113; Mar. 5.
- Container. W. E. Benson. 1,741,009; Dec. 31.
- Container. F. E. Bickford. 1,698,489; Jan. 8.
- Container. W. Brierley. 1,727,227; Sept. 3.
- Container. J. L. Bright. 1,706,436; Mar. 26.
- Container. J. F. Byrne. 1,712,249; May 7.
- Container. J. F. Byrne. 1,717,367; June 18.
- Container. L. H. Brodrick. 1,735,154; Nov. 12.
- Container. A. J. Chamberlain. 1,706,522; Mar. 26.
- Container. W. A. Clark. 1,711,375; Apr. 30.
- Container. B. F. Conner. 1,733,649; Oct. 29.
- Container. C. L'Enfant. 1,705,284; Mar. 12.
- Container. C. L'Enfant. 1,735,323-5; Nov. 12.
- Container. I. H. Fowle. 1,734,477; Nov. 5.
- Container. E. W. Freeman. 1,700,611; Jan. 29.
- Container. G. W. Fullerton. 1,710,043; May 14.
- Container. A. L. Garniss. 1,712,607; May 14.
- Container. F. W. Gibson. 1,738,821; Dec. 10.
- Container. J. B. Gregg. 1,705,289; Mar. 12.
- Container. J. E. Gunter. 1,713,224; May 14.
- Container. J. E. Gunter. 1,718,202; June 18.
- Container. J. E. Gunter. 1,734,484; Nov. 5.
- Container. F. J. Heacock. 1,721,448; July 16.
- Container. F. A. Hirtzler. 1,715,757; June 4.
- Container. A. W. Hobson. 1,714,368; May 21.
- Container. H. H. Honigbaum. 1,724,589; Aug. 13.
- Container. C. H. Hope. 1,713,129; May 14.
- Container. E. F. Hulbert. 1,700,164; Jan. 29.
- Container. E. F. Hulbert. 1,702,606; Feb. 19.
- Container. E. F. Hulbert. 1,738,951-2; Dec. 10.
- Container. H. A. Inman. 1,731,780; Oct. 15.
- Container. P. Joffe. 1,726,740; Sept. 3.
- Container. L. Kessler. 1,723,735; Aug. 6.
- Container. W. H. Kieckhefer. 1,736,200; Nov. 19.
- Container. H. Kieselberg. 1,707,401; Apr. 2.
- Container. S. J. Kimball. 1,713,662; May 21.
- Container. J. Laughlin. 1,733,889; Oct. 29.
- Container. F. W. Manson. 1,723,246; Aug. 6.
- Container. E. E. Maston. 1,704,948; Mar. 12.
- Container. M. Meyerson. 1,731,747-8; Oct. 15.
- Container. F. B. Miller. 1,710,780; Apr. 30.
- Container. F. B. Miller. 1,712,354; May 7.
- Container. A. E. Mullen. 1,700,445; Jan. 29.
- Container. A. E. Mullen. 1,701,860; Feb. 12.
- Container. F. S. Oppenheim. 1,713,548; May 21.
- Container. F. S. Oppenheim. 1,728,894; Sept. 17.
- Container. J. Polaschek. 1,713,090; May 14.
- Container. E. J. Rantsch. 1,727,938; Sept. 10.
- Container. W. H. Richman. 1,701,636; Feb. 12.
- Container. T. W. Rieke. 1,732,535; Oct. 22.
- Container. H. J. Shaffer. 1,721,260; July 16.
- Container. F. J. Strowbridge. 1,739,266; Dec. 10.
- Container. B. Traugbner. 1,711,034; Apr. 30.
- Container. O. Weik. 1,702,677; Feb. 19.



- Container, V. Willoughby. 1,727,685; Sept. 10.  
 Container. J. M. Young. 1,716,201; June 4.  
 Container and applicator, Ampullar. C. J. S. Herzog. 1,699,965; Jan. 22.  
 Container and applicator, Liquid. M. B. Krusi. 1,705,256; Mar. 12.  
 Container and cap therefor, Sealed. C. Ellis. 1,730,563; Oct. 8.  
 Container and carrier, Garment. I. Appelbaum. 1,699,942; Jan. 22.  
 Container and closure therefor, Tube. F. L. Betts. 1,726,642; Sept. 3.  
 Container and closure therefor. M. R. Kondolf. 1,725,526; Aug. 20.  
 Container and closure therefor. W. H. Rose. 1,713,676; May 21.  
 Container and dispenser, Seed. W. F. Kollman. 1,739,599; Dec. 17.  
 Container and display device, Combined shipping. H. C. Young. 1,736,726; Nov. 19.  
 Container and handle means. W. H. Duggan. 1,720,948; July 16.  
 Container and hood cap therefor. C. Ellis. 1,739,581; Dec. 17.  
 Container and lighter, Combination cigarette. D. Russell. 1,729,967; Oct. 1.  
 Container and making the same, Flexible moistureproof. A. C. Carpenter, R. E. Pierce, C. V. Brady, and H. V. Howes. 1,702,592; Feb. 19.  
 Container and manufacturing it, Metallic. A. L. Wertz. 1,719,153; July 2.  
 Container and server for spreads. J. Zitzerman. 1,741,089; Dec. 24.  
 Container and valve and method of employing the same. W. B. Fenn. 1,732,227; Oct. 22.  
 Container and wet-compress holder, Combination heating-agent. D. Roberts. 1,723,373; Aug. 6.  
 Container, Antitheft. F. Kortebein. 1,732,939; Oct. 22.  
 Container, Automobile license-certificate. O. E. Abbey. 1,702,189; Feb. 12.  
 Container, Bronze and tincture. C. Eckart, jr. 1,731,847; Oct. 15.  
 Container cap. J. P. Burke. Des. 78,805; June 25.  
 Container cap. S. Picker. 1,724,963; Aug. 20.  
 Container, Carbonated-beverage. H. M. Henderson. 1,730,142; Oct. 1.  
 Container, Carburizing. W. J. Merten. 1,705,674; Mar. 19.  
 Container, Cardboard. J. A. Elias. 1,705,245; Mar. 12.  
 Container, Card-index. R. W. Wood. 1,712,318; May 7.  
 Container, Chemical. H. K. Davies and A. C. Lorentz. 1,720,643; July 9.  
 Container, Chemical. A. W. Thompson. 1,740,482; Dec. 24.  
 Container, Cigarette. A. Ender. Des. 77,823; Feb. 26.  
 Container, Cigarette. J. W. Maddox. 1,733,163; Oct. 29.  
 Container closure. J. M. Hothersall. 1,739,759; Dec. 17.  
 Container closure. E. F. Hulbert. 1,711,642; May 7.  
 Container, Coin. D. F. Earl. 1,703,994; Mar. 5.  
 Container, Collapsible. J. T. L. Allen. 1,724,743; Aug. 13.  
 Container, Collapsible. D. J. Bellin. 1,736,874; Nov. 26.  
 Container, Collapsible. H. L. Broadfoot. 1,707,841; Apr. 2.  
 Container, Collapsible. H. T. Girdlestone and J. Rest. 1,737,417; Nov. 26.  
 Container, Collapsible. G. J. Pfister. 1,706,814; Mar. 26.  
 Container, Combination packing and display. L. Einson. 1,697,231; Jan. 1.  
 Container, Commodity. E. J. Brennan. 1,733,114; Oct. 29.  
 Container, Compact. T. Kirby. 1,698,266; Jan. 8.  
 Container, Convertible liquid. W. L. Bass. 1,721,506; July 23.  
 Container, Corrugated-board. P. A. Schilling and P. F. Boeye. 1,697,479; Jan. 1.  
 Container, Cosmetic-pencil. N. Kasdan and R. F. Landwehr. 1,722,298-9; July 30.  
 Container cover, Measuring. R. Egeland. 1,705,244; Mar. 12.  
 Container, Cradle. E. O. Tinsley. 1,720,016; July 9.  
 Container, Dispensing. R. S. Ayres. 1,726,689; Sept. 3.  
 Container, Dispensing. I. L. Green. 1,717,025; June 11.  
 Container, Dispensing. H. E. Hutchison. 1,722,221; July 23.  
 Container, Dispensing. H. D. Lavan. 1,712,442; May 7.  
 Container, Dispensing. E. M. McGowan. 1,731,721; Oct. 15.  
 Container, Dispensing. F. McLaughlin. 1,728,298; Sept. 17.  
 Container, Dispensing. H. T. Roberts. 1,697,206; Jan. 1.  
 Container, Dispensing. C. E. Sanders. 1,731,545; Oct. 15.  
 Container, Display. J. B. Franke. 1,722,460; July 30.  
 Container, Display. A. J. Tanner. 1,705,103; Mar. 12.  
 Container, Display. A. J. Tanner. 1,731,950; Oct. 15.  
 Container, Display. G. Wicklein. 1,737,744; Dec. 3.  
 Container, Double shipping. J. E. Fitzgerald. Re17,232; Mar. 12.  
 Container, Edible. J. Denaro. Des. 77,893; Mar. 5.  
 Container, Edible. V. O. Raimondi. Des. 78,312; Apr. 16.  
 Container, Felted fibrous. R. E. Hall. 1,742,073; Dec. 31.  
 Container, Filament. I. Taylor. 1,705,050; Mar. 12.  
 Container, Flexible sharp-freezing. L. G. Copeman. 1,740,919; Dec. 24.  
 Container, Foldable. G. Shugart, and E. G. Thomssen. 1,703,213; Feb. 26.  
 Container, Folding display. A. J. Tanner. 1,731,951; Oct. 15.  
 Container, Folding packing and display. A. J. Tanner. 1,738,127; Dec. 3.  
 Container, Food. F. M. Clayton. 1,716,367; June 11.  
 Container, Food. A. C. Gardner. 1,742,066; Dec. 31.  
 Container, Food. F. H. Meyer. 1,715,857; June 4.  
 Container, Food-preserving. D. J. O'Brien. 1,713,348; May 14.  
 Container for artificial fish lures. J. J. Hawes. 1,736,343; Nov. 19.  
 Container for asphalts and the like. J. H. Young. 1,734,189; Nov. 5.  
 Container for bottles, Safety. A. Rokeach. 1,719,488; July 2.  
 Container for bottles, Sealed. S. C. Miller. 1,732,059; Oct. 15.  
 Container for cigarettes and the like. J. Spanner. 1,731,507; Oct. 15.  
 Container for coating material. J. J. McClellan. 1,734,976; Nov. 12.  
 Container for coloring material. W. M. Steele and E. G. Allen. 1,735,219; Nov. 12.  
 Container for corrosive liquids such as hydrofluoric acid. A. W. Wilkinson and C. W. Riegel. 1,701,937; Feb. 12.  
 Container for cranes, Mechanical collecting. W. Polgar. 1,740,116; Dec. 17.  
 Container for dry cell and forming same. C. N. Mertes. 1,725,592; Aug. 20.  
 Container for electrical apparatus. F. Wild. 1,712,538; May 14.  
 Container for fluid under pressure. G. A. Benson and F. Scholl. 1,734,514; Nov. 5.  
 Container for fluids. G. F. J. Eckers. 1,719,654; July 2.  
 Container for footballs, etc., Inflatable air. M. B. Reach. 1,702,981; Feb. 19.  
 Container for gramophone needles. J. E. Holmqvist and K. A. and E. H. Widegren. 1,715,455; June 4.  
 Container for granular material. J. H. Cochran. 1,719,923; July 9.  
 Container for grease guns, Grease. G. J. Metters and K. W. Nolan. 1,701,788; Feb. 12.  
 Container for imparting radium emanations to fluids. S. Bryan. Des. 80,216; Dec. 31.  
 Container for junction cut-up reports, Mailing. H. A. Baker. 1,716,846; June 11.  
 Container for liquids. H. R. Sage. 1,732,282; Oct. 22.  
 Container for liquids, Dispensing. T. J. Stephens. 1,729,903; Oct. 1.  
 Container for mechanical refrigerators, Sharp freezing. L. G. Copeman. Re17,278-9; Apr. 23.  
 Container for merchandise. F. H. Coombs. 1,704,531; Mar. 5.  
 Container for nursing bottles. D. L. Moore. 1,706,034; Mar. 19.  
 Container for paste shoe polish, Dispensing. W. A. Clark. 1,701,663; Feb. 12.  
 Container for piece goods, Dispensing. D. T. Sanderson. 1,730,437; Oct. 8.  
 Container for pomade. R. E. Denman. 1,727,636; Sept. 10.  
 Container for pressure fluids. B. P. Joyce. 1,732,235; Oct. 22.  
 Container for radiators, Humidifying. R. G. Marter. 1,710,318; Apr. 23.  
 Container for socket-wrench sets. H. G. Rice. 1,726,718; Sept. 3.  
 Container for soda fountains, Sirup dispensing. J. L. Stokstad. 1,724,378; Aug. 13.  
 Container for surgeons' ligatures. G. B. Ritchie. 1,718,078; June 18.  
 Container for tooth paste and toothbrushes. B. J. Hammet. 1,710,642; Apr. 23.  
 Container for toothpicks, Sanitary. E. Bravo. 1,730,312; Oct. 1.  
 Container for use in automobile interior fitting or similar article. H. V. Henderson. Des. 79,591-2; Oct. 15.  
 Container for vacuum flasks or the like. J. Cohen. 1,716,622; June 11.  
 Container for volatile liquids. C. L. Day. 1,729,156; Sept. 24.  
 Container for wax paper and the like. E. H. Benson. 1,724,871; Aug. 13.  
 Container form for expansion joints. A. C. Fischer. 1,731,334; Oct. 15.  
 Container-forming machine, Power-driven. H. R. Phillips. 1,702,704; Feb. 19.  
 Container, Fuse. R. S. Bennett. Des. 77,387; Jan. 8.  
 Container, Garbage-can. F. C. Brastow. 1,715,738; June 4.  
 Container, Handle and dice. J. J. Sprenger and R. L. Sorensen. 1,716,011; June 4.  
 Container having bung. R. L. Parish. 1,737,675-6; Dec. 3.  
 Container having bung. J. Strama. 1,711,291; Apr. 30.  
 Container, Heat-detecting milk and cream. C. Ellis. 1,730,564; Oct. 8.  
 Container, Heat-insulated. R. W. Scarlett. 1,714,634; May 28.  
 Container, Heat-insulating shipping. D. J. O'Brien. 1,700,615; Jan. 29.  
 Container, Honey. J. H. Du Rall. 1,740,394; Dec. 17.  
 Container, Hydraulic pumping injector. R. O. Boykin. 1,699,220; Jan. 15.



- Container, Ice-cream. C. M. Brenner. 1,726,469; Aug. 27.  
 Container, Ice-cream. H. E. Dunn. 1,730,562; Oct. 8.  
 Container, Ice-cream-dispensing. H. E. Dunn. 1,740,539; Dec. 24.  
 Container, Insect-poison. J. B. Rosenfield. 1,103,210; Feb. 26.  
 Container, Insulated. E. S. Johnson. 1,711,115; Apr. 30.  
 Container, Insulated shipping. J. A. Brown. 1,715,814; June 4.  
 Container, Key and card. C. S. Lee. 1,701,209; Feb. 5.  
 Container, Keyless-tearing-strip. J. M. Young. 1,704,234; Mar. 5.  
 Container, Knockdown. W. D. Wilkes. 1,707,833; Apr. 2.  
 Container, Lip-stick. R. Guerlain. Des. 79,328; Sept. 3.  
 Container, Liquid. E. M. Bleecker. 1,700,623; Jan. 29.  
 Container, Liquid. R. Deltheil. 1,732,595; Oct. 22.  
 Container, Liquid. C. L. Hunt and N. J. Hill. 1,732,753; Oct. 22.  
 Container, Liquid. L. J. Stern. Des. 78,493; May 7.  
 Container, Liquid-measuring. G. E. Simons. 1,710,517; Apr. 23.  
 Container, Liquid-soap. F. H. Cranmore. 1,722,456; July 30.  
 Container, Loose-leaf. J. R. Tomlin. 1,712,530; May 14.  
 Container-making machine. O. K. Reinhardt. 1,715,388; June 4.  
 Container, Medical-tablet. B. F. Conner and W. F. Schmalz. 1,737,643; Dec. 3.  
 Container, Medicament. R. B. Waite. 1,740,717; Dec. 24.  
 Container, Merchandise. A. W. Engel. 1,705,607; Mar. 19.  
 Container, Merchandise. L. J. Merske. 1,736,763; Nov. 19.  
 Container, Metal. D. W. Thomas. 1,706,638; Mar. 26.  
 Container, Metal shipping. G. B. Pickop. 1,715,782; June 4.  
 Container, Metallic. L. B. Wackman. 1,720,807; July 16.  
 Container, Metallic. J. P. Walker. 1,718,322; June 25.  
 Container, Milk-bottle. F. Carrier. 1,732,037; Oct. 15.  
 Container, Mixing. H. C. Kieselbach. 1,707,968; Apr. 2.  
 Container or carton. M. M. Michelin. 1,740,550; Dec. 24.  
 Container, Package. A. C. Ladd. 1,700,539; Jan. 29.  
 Container, Packaging. L. S. Staples. 1,699,765; Jan. 22.  
 Container, Packing. A. Mauser. 1,730,434; Oct. 8.  
 Container, Packing and display. A. J. Tanner. 1,731,878; Oct. 15.  
 Container, Packing or shipping. W. S. Patterson. 1,735,876; Nov. 19.  
 Container, Paper. E. C. Angell. 1,741,490; Dec. 31.  
 Container, Paper. A. Moore. 1,700,742; Feb. 5.  
 Container, Paper. D. N. and J. Van Alstyne. 1,706,007; Mar. 19.  
 Container, Paper. W. L. Wright and J. T. Bond. 1,731,916; Oct. 15.  
 Container, Pencil. H. Knörer. Des. 78,999; July 16.  
 Container, Pocket. H. Salz. 1,711,970; May 7.  
 Container, Pocket ash. E. Baarsgard. 1,718,400; June 25.  
 Container, Poison. C. W. Hughett. 1,729,389; Sept. 24.  
 Container, Portable measuring. D. Bautz. 1,720,755; July 16.  
 Container, Portable merchandise-display. J. F. Mann. 1,716,557; June 11.  
 Container, Pressure paint. A. Shelburne. 1,710,435; Apr. 23.  
 Container, Reenforced milk-bottle. E. Trautman. 1,728,517; Sept. 17.  
 Container, Refrigerating. E. S. and E. S. Graham, jr. 1,711,840; May 7.  
 Container, Refrigerating. J. Wandel. 1,732,996; Oct. 22.  
 Container, Refuse. G. S. Easton. 1,736,192; Nov. 19.  
 Container, Reptile-venom-antidote. E. D. Kellogg. 1,702,654; Feb. 19.  
 Container-rim protector. W. R. Gruber. 1,716,725; June 11.  
 Container, Sanitary. H. Martin. 1,709,625; Apr. 16.  
 Container, Sanitary milk. F. Alden and L. M. Cooney. 1,733,571; Oct. 29.  
 Container, Sanitary moistureproof. J. H. Morrison. 1,740,828; Dec. 24.  
 Container, Sanitary refuse. F. I. Gunnell. 1,724,579; Aug. 13.  
 Container, Sanitary toothbrush. H. de S. Remedios. 1,724,516; Aug. 13.  
 Container, Self-closing sifter-top. D. G. Magill. 1,725,962; Aug. 27.  
 Container, Sheet-metal. F. F. Bentley. 1,725,698; Aug. 20.  
 Container, Sheet-metal. J. A. Shive. 1,734,052; Nov. 5.  
 Container shell for ice cream and other confections, Edible. G. L. Sakakeeny. Des. 77,563; Jan. 22.  
 Container, Shipping. D. S. Andrews and J. R. Wyllie. 1,740,000; Dec. 17.  
 Container, Shipping. H. R. Chandler. 1,709,520; Apr. 16.  
 Container, Shipping. C. G. Leigh. 1,720,337; July 9.  
 Container, Shipping. C. H. Riegel. 1,724,367; Aug. 13.  
 Container, Shipping. W. W. Rowe. 1,723,255; Aug. 6.  
 Container, Shipping. W. W. White. 1,709,510; Apr. 16.  
 Container spacer. F. I. Towle. 1,735,885; Nov. 19.  
 Container, Sterile. I. M. Sterling. 1,728,454; Sept. 17.  
 Container stopper. K. R. Gitterman. 1,705,445; Mar. 12.  
 Container, Storage-battery. E. Lyndon. 1,699,850; Jan. 22.  
 Container, Sugar. B. T. Guest. 1,708,130; Apr. 9.  
 Container, Sugar-dispensing. A. Abbott. 1,707,967; Apr. 2.  
 Container, Sugar-dispensing. A. Abbott. 1,727,799; Sept. 10.  
 Container, Syringe. H. T. Gillespie. 1,711,594; May 7.  
 Container, Tapered paper. W. L. Wright. 1,740,966; Dec. 24.  
 Container, Tilt bottom display. E. O. Tinsley. 1,729,847; Oct. 1.  
 Container, Toilet-accessory. J. E. Baum. Des. 78,433; May 7.  
 Container, Toilet-accessory. J. E. Baum. Des. 78,725; June 18.  
 Container, Toilet-accessory. J. E. Baum. Des. 78,919; July 9.  
 Container, Toilet accessory. J. E. Baum. Des. 79,009; July 23.  
 Container, Toilet-accessory. A. E. Mullen. Des. 77,622; Jan. 29.  
 Container, Toilet accessory. R. F. Senese. Des. 79,673; Oct. 22.  
 Container top. I. L. Korrol. 1,722,636; July 30.  
 Container top, Self-closing. J. C. Brisick. 1,698,579; Jan. 8.  
 Container, Ventilated nonrefillable. H. W. Dietrich. 1,706,444; Mar. 26.  
 Container, Vest-pocket hypodermic-syringe. D. L. O'Sullivan. 1,718,701; June 25.  
 Container, Waterproof. D. Kaufman and M. Mintz. 1,714,877; May 28.  
 Container, Waterproof. O. P. Svensson. 1,712,680; May 14.  
 Container with automatic lock, Collapsible display. E. O. Tinsley. 1,704,377; Mar. 5.  
 Containers, Apparatus for and method of aligning elements in sealed. J. C. Grogan. 1,716,167; June 4.  
 Containers, Apparatus for making paper. W. L. Wright and J. T. Bond. 1,706,910; Mar. 26.  
 Containers, Apparatus for producing double-walled glass. M. P. Wetmore. 1,735,027; Nov. 12.  
 Containers, boxes, tins, or the like, Device for opening. B. Polák. 1,703,778; Feb. 26.  
 Containers, boxes, tins, or the like, Device for opening. B. Polák. 1,734,877; Nov. 5.  
 Containers, Closing. J. M. Hotherhall. 1,700,984; Feb. 5.  
 Containers, Closing device for. S. Semack. 1,713,354; May 14.  
 Containers, Closure and pouring device for. C. M. Rose. 1,726,315; Aug. 27.  
 Containers, Friction cap for. A. C. Spahn. 1,703,501; Feb. 26.  
 Containers, Head for steel. W. R. Miller. 1,733,549; Oct. 29.  
 Containers, Making. J. A., C. S., and J. E. Harrison. 1,713,383; May 14.  
 Containers, Making. R. L. Parish. 1,713,675; May 21.  
 Containers, Making fibrous. L. C. Brooks. 1,698,532; Jan. 8.  
 Containers, Making seamless. A. Simons. 1,702,278; Feb. 19.  
 Containers, Method of and apparatus for applying the lateral surfaces on. A. A. Bureau. 1,717,834; June 18.  
 Containers, Nonremovable cap for. W. H. Frampton. 1,720,392; July 9.  
 Containers, Producing veneered. H. V. Pointer. 1,734,272; Nov. 5.  
 Containers, Protecting fluid. R. Courtin. 1,702,631; Feb. 19.  
 Containers, Removable head for metal. W. S. Woodman and J. O. Smith. 1,706,471; Mar. 26.  
 Containers, Sanitary cover for milk. R. W. Deimler. 1,705,452; Mar. 12.  
 Containing and dispensing case, Article. T. O. Lindeman. 1,706,304; Mar. 19.  
 Containing or retaining the human body or that of animals for medical, surgical, and hygienic purposes, Apparatus for. L. M. C. Charnaux. 1,729,502; Sept. 24.  
 Contamination of centrifugally-purified liquids, Apparatus and process for preventing. W. R. Chadburn. 1,723,329; Aug. 6.  
 Continuous furnace. F. T. Cope and A. H. Vaughan. 1,738,039; Dec. 3.  
 Continuous-settling apparatus. S. I. Bousman. 1,741,498; Dec. 31.  
 Continuous-tunnel kiln. P. A. Meehan. 1,738,597; Dec. 10.  
 Contracting construction for garments and other articles. M. S. George. 1,729,265; Sept. 24.  
 Control. J. G. Tandberg. 1,741,120; Dec. 24.  
 Control and supervisory system. H. L. Hoffmann. 1,719,471; July 2.  
 Control apparatus. B. O. Austin. 1,705,700; Mar. 19.  
 Control apparatus. E. M. Claytor. 1,725,256; Aug. 20.  
 Control apparatus. W. G. Horn. 1,696,914; Jan. 1.  
 Control apparatus. E. L. Hough. 1,701,370; Feb. 5.  
 Control apparatus. H. D. James and C. H. Hodgkins. 1,729,876; Oct. 1.  
 Control apparatus. H. C. Jenks. 1,699,790; Jan. 22.  
 Control apparatus. P. L. Mardis. 1,705,671; Mar. 19.  
 Control apparatus. A. F. Melching. 1,713,771; May 21.  
 Control apparatus. S. B. Schenck. 1,699,756; Jan. 22.  
 Control apparatus. B. Steadwell. 1,717,273; June 11.  
 Control apparatus. L. J. Stephenson. 1,700,602; Jan. 29.  
 Control apparatus and method, Thermostatic. J. L. Klimball. 1,738,073; Dec. 3.  
 Control apparatus, Automatic. I. B. Smith. 1,729,136; Sept. 24.



- Control apparatus, Elevator-. C. W. Bassett. 1,709,301; Apr. 16.
- Control apparatus for gas burners, Automatic. J. Dolphin. 1,736,649; Nov. 19.
- Control apparatus, Pneumatic. A. Penn. 1,736,749; Nov. 19.
- Control apparatus, Sequential. J. H. Peters. 1,703,206; Feb. 26.
- Control assembly. D. E. Ross. 1,702,840; Feb. 19.
- Control attachment, Automotive. E. L. James. 1,724,596; Aug. 13.
- Control, Automatic. C. Schuetz. 1,727,910; Sept. 10.
- Control, Automatic substation. F. Schmidlin. 1,723,379; Aug. 6.
- Control, Centrifugal. R. A. Steps. 1,713,057; May 14.
- Control, Combustion. M. G. Benjamin. 1,729,700; Oct. 1.
- Control, Combustion. F. S. Bennett and L. R. Biggs. 1,729,701; Oct. 1.
- Control cross talk, Means to. E. I. Green. 1,724,082; Aug. 13.
- Control device. S. J. V. Bovey. 1,698,490; Jan. 8.
- Control device. F. W. Hild. 1,709,790; Apr. 16.
- Control device. N. A. Lopez. 1,723,871; Aug. 6.
- Control device. G. W. McKee. 1,713,707; May 21.
- Control device, Automatic. C. A. Otto. 1,742,091; Dec. 31.
- Control device, Automatic recasting. G. Rappich. 1,721,638; July 23.
- Control device, Automatic train-. T. H. Thomas. 1,707,501; Apr. 2.
- Control device, Door and brake. F. B. Thomas. 1,736,019; Nov. 19.
- Control device for automobile heaters. T. Bovey. 1,719,530; July 2.
- Control device for heat-transfer systems, Automatic. V. G. Eisel. 1,736,491; Nov. 19.
- Control device for pneumatic-dispatch tube apparatus. S. Olson. 1,722,536-7; July 30.
- Control device for pneumatic dispatch-tube apparatus. S. Olson. 1,726,677; Sept. 3.
- Control device for secondary clocks. A. L. Denniston and E. S. Ostler. 1,728,175; Sept. 17.
- Control device for stoves. C. F. Conover. 1,728,107; Sept. 10.
- Control device for use over telephone lines, Distant-. L. L. E. Chauveau. 1,726,947; Sept. 3.
- Control, Fluid-pressure. W. E. Baker. 1,739,114; Dec. 10.
- Control for car retarders, Automatic. C. D. Oland. 1,708,892; Apr. 9.
- Control for continuous projectors. F. M. Hall. 1,701,564; Feb. 12.
- Control for dumb-waiter doors, Internal. H. Petersen. 1,731,349; Oct. 15.
- Control for electrically-driven compressors. A. Ruckstuhl. 1,737,335; Nov. 26.
- Control for electric-light circuits, Automatic. L. M. Riddes. 1,738,206; Dec. 3.
- Control for fluid-fuel burners. G. Remnsnider. 1,725,538; Aug. 20.
- Control for glass feeders and forming machines and operating the same, Impact. S. G. Stuckey. 1,711,818; May 7.
- Control for gunfire. C. C. Mertz. 1,737,937; Dec. 3.
- Control for lapping machines, Automatic. W. P. Hunt. 1,704,130; Mar. 5.
- Control for shank and bit punches, Foot. H. V. Haight. 1,723,730; Aug. 6.
- Control for steam boilers, Automatic. W. D. Hamer. 1,729,107; Sept. 24.
- Control for variable radio tuning units. G. V. Hedstrom. 1,710,539; Apr. 23.
- Control for variable radio tuning units. G. V. Hedstrom. 1,738,369; Dec. 3.
- Control for vehicle doors, Multiple-unit. H. Rowntree and J. H. Vander Veer. 1,715,515; June 4.
- Control, Fully-centralized mixer-type centrifugal. R. A. Steps. 1,713,058; May 14.
- Control gas cut-off, Dual-. H. J. Murray. 1,736,289; Nov. 19.
- Control instrument. R. P. Brown. 1,707,652; Apr. 2.
- Control instrument. R. P. Brown and F. W. Side. 1,715,895; June 4.
- Control. Knee-operated throttle. W. E. Seppman. 1,735,508; Nov. 12.
- Control means. H. A. Douglas. 1,708,263; Apr. 9.
- Control means. H. A. Douglas. 1,708,360-1; Apr. 9.
- Control means for hydraulic brakes, Liquid-. L. L. Reckler. 1,708,153; Apr. 9.
- Control means for motor vehicles, Automatic. B. M. Schauman and J. F. Milligan. 1,721,605; July 23.
- Control means for multiple-way electric-circuit devices. R. E. Ollerenshaw. 1,735,357; Nov. 12.
- Control means for oil burners, Automatic. I. Kramer. 1,726,520; Aug. 27.
- Control mechanism. M. I. Bradley. 1,733,050; Oct. 22.
- Control mechanism. D. J. Brimm, Jr. 1,720,661; July 16.
- Control mechanism. E. Lof. 1,732,651; Oct. 22.
- Control mechanism. C. Schütz. Re17,331; June 18.
- Control mechanism. E. J. Vallen. 1,719,574; July 2.
- Control mechanism, Aircraft. A. J. Styles. 1,736,230; Nov. 19.
- Control mechanism, Automatic tramper-. C. L. Mourfield. 1,728,503; Sept. 17.
- Control mechanism, Distant. F. R. House. 1,708,541; Apr. 9.
- Control mechanism for aeroplanes. H. M. Salisbury and A. E. Miller. 1,718,707; June 25.
- Control mechanism for centrifugal machines. H. J. M. C. Krantz. 1,735,204; Nov. 12.
- Control mechanism for concrete mixers, Material-. J. E. Bushnell. 1,728,527; Sept. 17.
- Control mechanism for dampers and the like, Automatic. L. S. Chadwick, M. Resek, and J. A. Dahlstrom. 1,698,989; Jan. 15.
- Control mechanism for filling and emptying receptacles. L. S. Pfouts. 1,721,469; July 16.
- Control mechanism for film feed. C. O. Wingren. 1,713,939; May 21.
- Control mechanism for fire trucks and the like, Automatic. A. Hollander and W. L. Forward. 1,725,273; Aug. 20.
- Control mechanism for head sections. J. Martin. 1,706,579; Mar. 26.
- Control mechanism for hydraulic presses. W. Ernst. 1,711,378; Apr. 30.
- Control mechanism for liquid-measuring apparatus. C. F. Ball. 1,739,477; Dec. 10.
- Control mechanism for metal-forming machines, Curvature-. C. Morey. 1,728,246; Sept. 17.
- Control mechanism for motor vehicles. G. M. Bacon. 1,737,489; Nov. 26.
- Control mechanism for motor vehicles, Automatic. W. M. Moxley. 1,724,503; Aug. 13.
- Control mechanism for oil-burning apparatus, Fluid-pressure-. E. B. Rodgers. 1,738,118; Dec. 3.
- Control mechanism for power plants. C. E. Kelly. 1,734,037; Nov. 5.
- Control mechanism for revolving scrapers. D. R. Throop. 1,719,247; July 2.
- Control mechanism for use in electric controllers. C. T. Neal. 1,727,781; Sept. 10.
- Control mechanism for windshields. C. B. Parsons. 1,720,921; July 16.
- Control mechanism, Fuel-injection-. L. O. French. 1,697,952; Jan. 8.
- Control mechanism, Oil-burner-. J. Good. 1,707,632; Apr. 2.
- Control mechanism, Web-feed-. L. E. La Bombard and M. H. Sidebotham. 1,727,208; Sept. 3.
- Control mechanism, Web-roll-. W. H. Ogden. 1,736,834; Nov. 26.
- Control, Multiple. H. D. Currier. 1,728,596; Sept. 17.
- Control of a movable member, Apparatus for the. M. Schleicher and H. Poleck. 1,706,968; Mar. 26.
- Control of absorption-refrigerating apparatus, Automatic. S. Otto and L. Bruehl. 1,725,205; Aug. 20.
- Control of arc lights. P. R. Bassett. 1,699,509; Jan. 15.
- Control of braking effect. E. D. Harrington. 1,713,228; May 14.
- Control of combustion, Method of and apparatus for the. W. M. Hepburn. 1,710,772; Apr. 30.
- Control of electrical energy. C. A. Sprague. 1,739,924; Dec. 17.
- Control of electrically-driven reciprocatory apparatus. J. J. Cooper. 1,737,358; Nov. 26.
- Control of fuel-injection mechanism for internal-combustion engines. E. von Salis. 1,701,089; Feb. 5.
- Control of multispeed motors. J. Eaton. 1,726,478; Aug. 27.
- Control of pests injurious to vegetation, Agent for the. M. B. Patteson. 1,726,364; Aug. 27.
- Control of regeneration in signaling system. R. S. Ohl. 1,727,408; Sept. 10.
- Control of repeaters, Remote. E. R. Taylor. 1,739,532; Dec. 17.
- Control of selector apparatus, Remote. C. F. Stearns. 1,735,838; Nov. 12.
- Control, Spark and throttle. R. F. Hearn. 1,735,247; Nov. 12.
- Control-surface operating mechanism. S. M. Fairchild. 1,711,637; May 7.
- Control-surface-operating mechanism. F. R. Weymouth. 1,708,373; Apr. 9.
- Control switch. A. H. Meisenheimer. 1,704,949; Mar. 12.
- Control switch. J. P. Salfer. 1,727,676; Sept. 10.
- Control switch. H. E. Tower. 1,705,671; Mar. 19.
- Control switch, Automobile ignition-. F. J. Kudrna, Jr., and N. Yirkosky. 1,697,071; Jan. 1.
- Control switch. Electric-current-. G. E. Kraemer. 1,705,125; Mar. 12.
- Control switch for driving lights of automobiles. O. R. Blazer. 1,709,653; Apr. 16.
- Control switch, Pressure-. D. P. Heath. 1,703,235; Feb. 26.
- Control system. A. E. Anderson. 1,698,291; Jan. 8.
- Control system. A. E. Anderson. 1,738,344; Dec. 3.
- Control system. L. M. Aspinwall. 1,710,762; Apr. 30.
- Control system. E. Austin. 1,716,752; June 11.
- Control system. E. A. Binney. 1,699,775; Jan. 22.
- Control system. C. A. Bodde. 1,732,711; Oct. 22.
- Control system. E. M. Bouton. 1,734,198; Nov. 5.
- Control system. R. C. Deale. 1,707,460; Apr. 2.
- Control system. W. F. Eames. 1,728,790; Sept. 17.
- Control system. W. Fourness. 1,732,464; Oct. 22.
- Control system. H. S. Gano. 1,715,750; June 4.
- Control system. R. P. Higbee. 1,728,759; Oct. 22.
- Control system. B. G. Lamme and L. J. Hibbard. 1,729,882; Oct. 1.
- Control system. P. L. Mardis. 1,699,797; Jan. 22.
- Control system. C. A. Martin. 1,697,432; Jan. 1.
- Control system. P. McShane. 1,730,283; Oct. 1.



- Control system. J. B. Price. 1,698,560; Jan. 8.  
Control system. D. C. Prince. 1,721,410; July 16.  
Control system. W. H. Rowney. 1,717,264; June 11.  
Control system. S. B. Schenck. 1,729,456; Sept. 24.  
Control system. H. T. Seeley. 1,699,122; Jan. 15.  
Control system. B. H. Smith. 1,699,762; Jan. 22.  
Control system. P. Thomas. 1,730,254; Oct. 1.  
Control system. H. H. Thompson. 1,731,879; Oct. 15.  
Control system. T. U. White. 1,740,487; Dec. 24.  
Control system. J. Yuyama. 1,713,208; May 14.  
Control system, Automatic. H. Bany. 1,698,292; Jan. 8.  
Control system, Automatic. H. Bany. 1,725,696; Aug. 20.  
Control system, Automatic. H. T. Seeley. 1,742,151; Dec. 31.  
Control system, Centralized. C. H. Smoot. 1,698,031; Jan. 8.  
Control system for domestic oil burners. L. L. Scott. 1,708,706; Apr. 9.  
Control system for electric circuits. R. Varley. 1,720,936; July 18.  
Control system for elevators. R. A. Waite and F. L. Morris. 1,709,161; Apr. 16.  
Control system for producing signals of various frequencies. W. C. Beach. 1,724,900; Aug. 20.  
Control system for train circuits. H. E. Van Dorn. 1,726,508; Aug. 27.  
Control system, Frequency-. A. M. Troegner. 1,727,575; Sept. 10.  
Control system, Motor-. N. W. Storer, A. H. Candee, and L. M. Aspinwall. 1,710,792; Apr. 30.  
Control, System of. H. D. James and H. C. Nagel. 1,729,874; Oct. 1.  
Control system, Remote-. W. R. G. Baker. 1,733,045; Oct. 22.  
Control system, Remote. L. E. Coon. 1,711,672; May 7.  
Control system, Remote. F. J. Mosch and H. Höfer. 1,702,479; Feb. 19.  
Control system, Remote-. H. J. Murray. 1,728,187; Sept. 17.  
Control system, Remote. F. W. Schramm. 1,698,772; Jan. 15.  
Control system, Remote-. E. R. Taylor. 1,739,531; Dec. 17.  
Control system, Supervisory. J. E. Gardner. 1,725,134; Aug. 20.  
Control system, Supervisory. J. L. McCoy. 1,709,031; Apr. 16.  
Control system, Supervisory. J. L. McCoy. 1,715,666; June 4.  
Control system, Supervisory. R. J. Wensley. 1,740,485; Dec. 24.  
Control system, Supervisory. T. U. White. 1,737,037; Nov. 26.  
Control system, Supervisory. T. U. White. 1,739,935; Dec. 17.  
Control system, Supervisory. T. U. White. 1,740,556; Dec. 24.  
Controller. R. T. Kintzing. 1,700,588; Jan. 29.  
Controller. A. R. Sanborn. 1,741,165; Dec. 31.  
Controller. J. E. Sederholm. 1,713,559; May 21.  
Controller actuation. A. E. Loewy. 1,715,850; June 4.  
Controller finger. E. E. Rose. 1,731,939; Oct. 15.  
Controller for alternating-current motors. T. I. Dekle. 1,706,443; Mar. 26.  
Controller for electric indicators. F. W. Wood. 1,735,706; Nov. 12.  
Controller for electric motors. R. B. Hunter. 1,272,296; July 30.  
Controlling apparatus for highway-crossing signals. C. A. Brooks. 1,726,098; Aug. 27.  
Controlling apparatus for low-pressure steam turbines. D. E. Nash. 1,704,403; Mar. 5.  
Controlling automotive steam vehicles, Apparatus for. C. A. French and R. R. Waterman. 1,737,581; Dec. 3.  
Controlling device. W. Dublier. 1,728,045; Sept. 10.  
Controlling device, Automatic blank operation. W. W. Landsiedel. 1,724,880; Aug. 13.  
Controlling device for electric motors. W. N. Clurman. 1,707,459; Apr. 2.  
Controlling device for electric water heaters, Automatic. A. A. Grassi and R. D. Cézard. 1,697,463; Jan. 1.  
Controlling device for internal-combustion engines. E. C. Hall. 1,699,429; Jan. 15.  
Controlling device for machine tools, particularly grinding machines. K. Jung. 1,717,385; June 18.  
Controlling device for power transmission for vehicles traveling upon tracks. P. Mariage. 1,697,730; Jan. 1.  
Controlling device for starting and determining the quantities to be delivered by a liquid-raising apparatus placed at some distance from said device. H. Wydler. 1,712,189; May 7.  
Controlling discharge gaps. K. Rottgardt and L. Hühn. 1,720,351; July 9.  
Controlling floating logs and the like. T. H. MacLafferty. 1,697,774; Jan. 1.  
Controlling knitting needles in plating operations, Mechanism for. J. and R. H. Lawson. 1,720,649; July 9.  
Controlling means. L. W. Eggleston. 1,734,205; Nov. 5.  
Controlling means for elevators and the like. P. D. Orcutt. 1,710,066; Apr. 23.  
Controlling means on current conductors for high-frequency purposes. M. Osnos. 1,737,169; Nov. 26.  
Controlling mechanism. W. H. Wineman. 1,731,694; Oct. 15.  
Controlling mechanism. C. W. Wyman. 1,718,513; June 25.  
Controlling mechanism for locomotive booster motors. C. C. Farmer. 1,697,638; Jan. 1.  
Controlling mechanism for mold-ramming machines. J. Stone. 1,728,705; Sept. 17.  
Controlling mechanism for revolving doors. L. W. Lowther. 1,732,902; Oct. 22.  
Controlling motors, Method and mechanism for. H. R. Hughes, H. B. Lewis, and B. Burns. 1,715,082; May 28.  
Controlling oil-burner pilot flames, Apparatus for. A. S. Mancib. 1,734,095; Nov. 5.  
Controlling pendulously-supported bodies, Method and apparatus for. M. F. Bates. 1,713,942; May 21.  
Controlling phase relations between stations. H. Nyquist. 1,740,867; Dec. 24.  
Controlling railway switches, Apparatus for. H. S. Loomis. 1,701,080; Feb. 5.  
Controlling railway switches, Apparatus for. J. E. Speer. 1,735,019; Nov. 12.  
Controlling reciprocating motors. E. J. Misslen. 1,716,789; June 11.  
Controlling shields, Device for. J. A. Lampman. 1,699,741; Jan. 22.  
Controlling system. H. E. Kranz. 1,734,732; Nov. 5.  
Controlling system and valve apparatus therefor. H. T. Patton. 1,729,486; Sept. 24.  
Controlling system for air-conditioning apparatus. E. J. Carroll. 1,714,125; May 21.  
Controlling the cooling capacity of radiators. C. M. Dowell. 1,728,176; Sept. 17.  
Controlling the draw-off hook carried by the filling member in cigarette-filling machines, Device for. A. J. Schmiedel. 1,707,996; Apr. 9.  
Controlling the feed water of steam boilers, Apparatus for automatically. L. M. Bernon. 1,737,213; Nov. 26.  
Controlling the firing of ordnances or the like when firing at a moving target, Device for. B. Glüer. 1,732,718; Oct. 22.  
Controlling the flow of liquid in pipes, Automatically. J. H. Brumbaugh. 1,697,223; Jan. 1.  
Controlling the flow of liquids, Apparatus for. M. F. Stein. 1,724,977; Aug. 20.  
Controlling the flow of liquids through systems, Device or apparatus for use in. W. R. Bridgens. 1,726,211; Aug. 27.  
Controlling the movement of tapes. W. S. Pritchard and W. T. Birdsall. 1,727,901; Sept. 10.  
Controlling the nippers in Hellmann and like combers. C. Gégauff. 1,713,959; May 21.  
Controlling the quality or total heating value of a flowing mixture of fluids, Method of and apparatus for. C. S. Pinkerton. 1,704,101; Mar. 5.  
Controlling the supply of a driving fluid, the pressure of a fluid, and similar purposes. T. Källe. 1,738,072; Dec. 3.  
Controlling the warp-yarn supply on weaving machines, Mechanism for. J. Lucas. 1,737,600; Dec. 3.  
Conversion of electric currents. J. Kübler. 1,712,504; May 14.  
Conversion of SO<sub>2</sub> to SO<sub>3</sub>. J. G. Melendy. 1,716,498; June 11.  
Converter. F. A. Hodge. 1,729,581; Sept. 24.  
Convertible body. R. Beringer. 1,705,043; Mar. 12.  
Convertible switch. G. R. Townsend. 1,728,019; Sept. 10.  
Converting cyannaphthalene sulfonic acids. R. Herz, F. Schulte, and W. Zerweck. 1,721,882; July 23.  
Converting motion, Mechanism for. B. A. L. Johansson. 1,708,542; Apr. 9.  
Converting multiphase current into single-phase current and vice versa. L. Schön. 1,712,719; May 14.  
Converting rotary into reciprocating motion and vice versa. C. Baxter. 1,728,716; Sept. 17.  
Converting silicates containing lithia with neutral alkali-metal salts. C. von Girsowald. 1,710,556; Apr. 23.  
Converting sound waves into electric waves, Apparatus for. O. Von Bronk. 1,721,141; July 16.  
Conveyance, Baby. A. F. Debelack. 1,741,014; Dec. 24.  
Conveyer. G. S. Atkins. 1,708,559; Apr. 9.  
Conveyer. A. Baldini. 1,729,433; Sept. 24.  
Conveyer. C. C. Brayton. 1,731,609; Oct. 15.  
Conveyer. C. Brown. 1,719,585; July 2.  
Conveyer. A. E. Crady. 1,741,616; Dec. 31.  
Conveyer. S. Freilino. 1,718,737; June 25.  
Conveyer. J. R. Gammeter. 1,726,555; Sept. 3.  
Conveyer. H. R. Gotthardt. 1,740,921; Dec. 24.  
Conveyer. J. W. Greer. 1,703,881; Mar. 5.  
Conveyer. F. A. Hanscn. 1,741,516; Dec. 31.  
Conveyer. F. A. Hansen. 1,741,624; Dec. 31.  
Conveyer. A. J. Howe. 1,737,762; Dec. 3.  
Conveyer. J. M. Keller and J. H. Ames. 1,699,538; Jan. 22.  
Conveyer. J. W. Leary. 1,740,607; Dec. 24.  
Conveyer. L. Llewellyn and C. L. Kenney. 1,710,883; Apr. 30.  
Conveyer. H. T. Mathieson. 1,715,141; May 28.  
Conveyer. J. E. McBride. 1,707,359; Apr. 2.  
Conveyer. J. J. Mojonner. 1,714,721; May 28.  
Conveyer. M. H. Pade. 1,703,829; Feb. 26.  
Conveyer. M. H. Pade and N. H. Myers. 1,727,313; Sept. 3.  
Conveyer. L. A. Paradise. 1,731,393; Oct. 15.  
Conveyer. N. H. Preble. 1,720,690; July 16.  
Conveyer. A. Redler. 1,697,963; Jan. 8.  
Conveyer. H. O. Scranton. 1,730,479; Oct. 8.



- Conveyer. A. L. Shaw. 1,707,998; Apr. 9.  
 Conveyer adjustment means, Automatic. A. J. Hartley. 1,723,481; Aug. 6.  
 Conveyer and chain therefor. L. C. Marble. 1,725,467; Aug. 20.  
 Conveyer and elevator, Endless-belt. D. Rankine, J. W. H. Ross, and T. C. Lennard. 1,702,314; Feb. 19.  
 Conveyer and guide. A. Broadmeyer. 1,728,328-9; Sept. 17.  
 Conveyer and guide. A. Broadmeyer. 1,736,484; Nov. 19.  
 Conveyer and tumbler for article-coating apparatus. C. J. Lemont. 1,720,131; July 9.  
 Conveyer apparatus. H. B. Walker. 1,731,914; Oct. 15.  
 Conveyer, Apron. J. H. Davidson. 1,736,582; Nov. 19.  
 Conveyer, Automatic. W. R. Aitken. 1,706,947; Mar. 26.  
 Conveyer belt for washing machines and the like. P. H. Davis. 1,737,150; Nov. 26.  
 Conveyer bucket and closing the same. A. C. Bennett. 1,741,123; Dec. 24.  
 Conveyer, Chain. N. P. Wagner. 1,706,268; Mar. 19.  
 Conveyer chute for percentage feeding machines. S. Snyder. 1,719,788; July 2.  
 Conveyer, Distributing. W. Surdam. 1,729,600; Sept. 24.  
 Conveyer dog. R. C. Yepsen. 1,702,884; Feb. 19.  
 Conveyer, Endless. H. D. Hamper. 1,716,633; June 11.  
 Conveyer, Endless. O. C. Schmidt. 1,701,455; Feb. 5.  
 Conveyer, Endless-cord. H. Mason, B. Beardsley, and P. J. Birkmeyer. 1,715,301; May 28.  
 Conveyer flight. E. Graff. 1,699,187; Jan. 15.  
 Conveyer for a continuous normalizer furnace. S. J. Leskawa. 1,734,814; Nov. 5.  
 Conveyer for annealing furnaces. W. Alferink. 1,710,332; Apr. 23.  
 Conveyer for bakers' ovens and track therefor, Traveling. C. B. Comstock. 1,724,908; Aug. 20.  
 Conveyer for barns, Manure. A. E. Nevala. 1,722,673; July 30.  
 Conveyer for coal mines, Endless. E. Taylor. 1,702,579; Feb. 19.  
 Conveyer for corn harvester, Down-corn. M. L. Riley. 1,708,327; Apr. 9.  
 Conveyer for corn pickers, harvesters, and the like. J. Van Nortwick. 1,727,021; Sept. 3.  
 Conveyer for dirigible hangars. R. P. Fox. 1,724,834; Aug. 13.  
 Conveyer for discharging bins. G. B. Eggert. 1,704,731; Mar. 12.  
 Conveyer for furnaces, Material. F. T. Cope. 1,699,955; Jan. 22.  
 Conveyer for grain weighers. M. L. and H. L. Heinke. 1,720,956; July 16.  
 Conveyer for grain weighers. A. C. Van Houwelling. 1,701,023; Feb. 5.  
 Conveyer for high-temperature furnaces. G. F. Beach. 1,739,497; Dec. 17.  
 Conveyer hanger, Lubricating. J. O. Bailey. 1,739,345; Dec. 10.  
 Conveyer, Jigger or shaker. T. G. Nyborg and H. C. Jenkins. 1,712,897; May 7.  
 Conveyer, Jigging. G. Bockau. 1,718,941; July 2.  
 Conveyer, Link belt. G. Webb. 1,724,150; Aug. 13.  
 Conveyer, Long-wall. H. A. Holzer. Re17,380.  
 Conveyer mechanism. J. P. Aldrich and H. A. Morris. 1,726,418; Aug. 27.  
 Conveyer mechanism. W. J. Gibbs. 1,712,762; May 14.  
 Conveyer mechanism. A. J. Howe. 1,733,409; Oct. 29.  
 Conveyer mechanism. W. S. Weber. 1,714,533; May 28.  
 Conveyer, Mixing. A. Allen. 1,706,203; Mar. 19.  
 Conveyer, Mold. P. F. Krenzke. 1,723,941; Aug. 9.  
 Conveyer, Overhead. M. Macdonald. 1,726,993; Sept. 3.  
 Conveyer, Portable. H. H. Barber. 1,728,652; Sept. 17.  
 Conveyer, Roller. L. Löwy. 1,733,379; Oct. 29.  
 Conveyer, Rotary. E. P. Harrington. 1,741,019; Dec. 24.  
 Conveyer screen. E. A. Boie. 1,710,605; Apr. 23.  
 Conveyer, Screw. J. L. Erisman. 1,729,211; Sept. 24.  
 Conveyer, Spiked feed. A. O. Hurxthal and H. Bogaty. 1,718,150; June 18.  
 Conveyer, Stoker. A. M. Hunt. 1,724,593; Aug. 13.  
 Conveyer system. J. T. Crowley. 1,712,872; May 14.  
 Conveyer system. L. H. Draeger. 1,731,095; Oct. 8.  
 Conveyer system. F. Griffith, P. J. Birkmeyer, and H. G. Life. 1,738,427; Dec. 3.  
 Conveyer system. A. S. Langsdorf. 1,716,448; June 11.  
 Conveyer system. J. T. T. Randles, H. Willshaw, and H. Smith. 1,735,443; Nov. 12.  
 Conveyer system, Fluid. E. L. Aikins. 1,697,584; Jan. 1.  
 Conveyer table. W. J. McCann. 1,711,740; May 7.  
 Conveyer, Tire-preparation. N. H. Myers and O. E. Sords. 1,718,660; June 25.  
 Conveyer, Unloading. C. Hosler, and J. B. Whelan. 1,703,820; Feb. 26.  
 Conveyer, Wheeled. B. Welser. 1,733,845; Oct. 29.  
 Conveyers, Automatic stop for belt. C. R. Fisher. 1,728,283; Sept. 17.  
 Conveyers, Automatic transfer mechanism for. S. Olson. Re17,517; Dec. 10.  
 Conveyers, Discharging device for. S. Olson. 1,732,376; Oct. 22.  
 Conveyers, Driving mechanism for. A. J. Hartley and A. C. Van Houwelling. 1,728,680; Sept. 17.  
 Conveyers, Feed attachment for. E. L. Buck and E. G. Nadeau. 1,712,329; May 7.  
 Conveyers, Forming spiral. O. N. Gredell. 1,738,994; Dec. 10.  
 Conveyers, Load-deflecting device for. R. Bell-Irving and P. Sandwell. 1,729,671; Oct. 1.  
 Conveyers, Safety device for. S. G. Margles and A. E. Handy. 1,729,079; Sept. 24.  
 Conveyers, Shaft mounting and apron tightener for. W. Webber. 1,709,549; Apr. 16.  
 Conveyers, Tandem drive for. F. E. Smith. 1,706,501; Mar. 26.  
 Conveying and agitating vessel, Concrete. J. E. Bushnell. 1,714,588; May 28.  
 Conveying and discharging lamp bulbs, Mechanism for. H. De F. Madden. 1,712,670; May 14.  
 Conveying and distributing mechanism, Bucket and boom. S. Shafer, jr. 1,729,553; Sept. 24.  
 Conveying and elevating mechanism. A. P. Lewis and J. L. Wilson. 1,711,356; Apr. 30.  
 Conveying and loading mechanism for barrels. C. T. Draper. 1,700,696; Jan. 29.  
 Conveying and measuring apparatus. A. W. Heyman. 1,706,292; Mar. 19.  
 Conveying and separating fibrous materials. P. P. Bowen. 1,728,035; Sept. 10.  
 Conveying apparatus. G. R. Baker. 1,736,517; Nov. 19.  
 Conveying apparatus. W. Buhl. 1,714,945; May 28.  
 Conveying apparatus. C. F. Hanson. 1,710,358; Apr. 23.  
 Conveying apparatus. G. F. Lee. 1,720,843; July 16.  
 Conveying apparatus. S. E. Meyers. 1,737,090; Nov. 26.  
 Conveying apparatus. J. C. Paterson. 1,711,576; May 7.  
 Conveying apparatus. P. Wichelhaus. 1,727,798; Sept. 10.  
 Conveying apparatus, Pneumatic. G. Bernert. 1,737,561; Dec. 3.  
 Conveying bran or similar light material, Method and apparatus for. G. Bernert. 1,707,206; Mar. 26.  
 Conveying building materials, Method of and device for. G. Schlösser. 1,736,093; Nov. 19.  
 Conveying machine, Confection-. J. W. and F. W. Greer. 1,732,228; Oct. 22.  
 Conveying materials. K. Davis. 1,701,174; Feb. 5.  
 Conveying means for drying ovens. G. M. Argabrite. 1,720,113; July 9.  
 Conveying mechanism. M. U. Burnham, G. M. Argabrite, and A. A. Dionne. 1,706,437; Mar. 26.  
 Conveying mechanism. R. K. Jeffrey. 1,732,365; Oct. 22.  
 Conveying mechanism. P. W. Shields. 1,709,750; Apr. 16.  
 Conveying system. J. W. Cosgrove. 1,737,829; Dec. 3.  
 Conveying system. S. J. Finn. 1,698,786; Jan. 15.  
 Conveying system. A. P. Lewis. 1,699,489; Jan. 15.  
 Conveying system. W. D. Stockly and E. Drennen. 1,706,905; Mar. 26.  
 Conveying system. H. L. Turney. 1,697,940; Jan. 8.  
 Cooker. I. Lowe-Lile. 1,712,926; May 14.  
 Cooker. B. F. Sanguinetti. 1,707,817; Apr. 2.  
 Cooker. C. G. Wright. 1,717,296; June 11.  
 Cooker, Automatic pressure. G. J. Meyer. 1,741,579; Dec. 31.  
 Cooker, Constant-temperature fireless. A. D. Widström. 1,703,803; Feb. 26.  
 Cooker, Continuous. C. H. Keeney. 1,721,562; July 23.  
 Cooker, Egg. F. Connolly. 1,739,062; Dec. 10.  
 Cooker, Electric. H. A. Mulvaney. 1,712,932; May 14.  
 Cooker, Gas. J. Heussler and A. Braune. 1,725,863; Aug. 27.  
 Cooker, Multiple. W. J. Burnett. 1,711,631; May 7.  
 Cooker, Multiple heat electric. H. A. Ziola. 1,724,247; Aug. 13.  
 Cooker, Steam. T. E. Kirkpatrick. 1,716,922; June 11.  
 Cooker, Steam. W. McKenna. Re17,336; June 25.  
 Cooker, Steam pressure. F. W. Allen. 1,730,491; Oct. 8.  
 Cooker, Variable time. G. D. Gardner. 1,735,242; Nov. 12.  
 Cooker, Waterless. E. P. McClure. 1,724,101; Aug. 13.  
 Cooker, Waterless egg. R. Perczian. 1,711,247; Apr. 30.  
 Cooking and sterilizing utensil, Combined. E. C. Sullivan. 1,726,199; Aug. 27.  
 Cooking apparatus. J. C. Bergner. 1,727,857; Sept. 10.  
 Cooking apparatus. W. de Back. 1,736,778; Nov. 26.  
 Cooking apparatus. F. V. Detwiler. 1,731,769; Oct. 15.  
 Cooking apparatus. C. P. Jaeger. 1,706,612; Mar. 26.  
 Cooking apparatus. F. R. Miller. 1,738,255; Dec. 3.  
 Cooking apparatus. G. S. Morley. 1,702,518; Feb. 19.  
 Cooking apparatus. C. D. Starr. 1,731,226; Oct. 8.  
 Cooking apparatus. D. O. Wheelock. 1,717,592; June 18.  
 Cooking appliance, Electric. J. L. Shroyer. 1,717,270; June 11.  
 Cooking appliance, Electrical. B. Shaffer. 1,718,260; June 25.  
 Cooking device. H. A. Keiner. 1,725,521; Aug. 20.  
 Cooking device, Electric. A. J. Bressan. 1,711,517; May 7.  
 Cooking device, Electric. J. L. Shroyer. 1,717,269; June 11.  
 Cooking device, Electrical. G. F. Wells. 1,704,270; Mar. 5.  
 Cooking machine. H. W. Parker. 1,716,002; June 4.  
 Cooking materials, Apparatus for. S. Hiller. 1,715,065; May 28.  
 Cooking materials, Apparatus for. S. Hiller. 1,735,392; Nov. 12.  
 Cooking rack. P. W. Stephens. 1,716,868; June 11.  
 Cooking utensil. A. L. Bailey. 1,698,527; Jan. 8.  
 Cooking utensil. W. R. Dick. 1,698,225; Jan. 8.  
 Cooking utensil. W. R. Dick. 1,710,971; Apr. 30.  
 Cooking utensil. C. Guetzow. 1,717,971; June 18.  
 Cooking utensil. O. Herting. 1,699,843-4; Jan. 22.  
 Cooking utensil. A. Raffa. 1,722,946; July 30.



- Cooking utensil. P. Simon. 1,715,721; June 4.  
 Cooking utensils, Automatically-operating water-sealed system and apparatus for steam. J. H. Teller. 1,698,205; Jan. 8.  
 Cooking utensils, Hood for. H. J. Witter. 1,722,513; July 30.  
 Cooking vessel. I. B. Bjornson. 1,736,479; Nov. 19.  
 Cooking vessel. W. J. McGarvey. 1,701,384; Feb. 5.  
 Cooking vessel. W. J. McGarvey. 1,727,075; Sept. 3.  
 Cooking vessel. H. Schaefer. 1,697,930; Jan. 8.  
 Cooking vessel. R. H. Wentorf. 1,698,928; Jan. 15.  
 Cooking vessel. S. S. Wolfe. 1,720,986; July 16.  
 Cooking vessel and like handle. E. M. Bolton. 1,719,461; July 2.  
 Cooler; *See*—  
   Absorption cooler. Liquid cooler.  
   Air cooler. Milk cooler.  
   Bottle cooler. Oil cooler.  
   Clinker cooler. Water and beverage cooler.  
   Cream cooler. Water cooler.  
   Fluid cooler. Sheet-glass cooler.  
   Soft-drink cooler.  
 Cooler. J. H. Beckman. 1,708,600; Apr. 9.  
 Cooler. E. Lütchen. 1,734,262; Nov. 5.  
 Cooler. L. Mambourg. 1,718,372; June 25.  
 Cooler. J. I. Wohl. Des. 78,870; June 25.  
 Cooler and dispenser, Bottle. F. M. Graham. 1,741,563; Dec. 31.  
 Cooler and humidifier. R. D. Matteson. 1,727,658; Sept. 10.  
 Cooler and humidifier. R. D. Matteson. 1,727,998; Sept. 10.  
 Cooler and refrigerator, Air. E. R. Cook. 1,716,766; June 11.  
 Cooler and separator, Motor-oil. B. R. Bright. 1,716,338; June 4.  
 Cooler for sheet-glass apparatus. H. E. Allen. 1,701,170; Feb. 5.  
 Cooler for soda water, etc. J. Benzion. 1,722,266; July 30.  
 Cooling air, Method and apparatus for. W. L. Fleisher. 1,718,815; June 25.  
 Cooling and cleaning apparatus, Air. J. J. Preble. 1,705,534; Mar. 19.  
 Cooling and condensing tower. E. Burhorn. 1,732,963; Oct. 22.  
 Cooling and dispensing apparatus, Dringing-water. B. Markus. 1,708,184; Apr. 9.  
 Cooling and dispensing case, Meat. L. T. Summers. 1,701,019; Feb. 5.  
 Cooling and dispensing machine. F. A. Bauer. 1,718,102; June 18.  
 Cooling and treating apparatus, Hot-fruit. T. W. W. Forrest. 1,726,816; Sept. 3.  
 Cooling apparatus. G. E. Cox. 1,733,582; Oct. 29.  
 Cooling apparatus. H. G. Jancsey. 1,722,578; July 30.  
 Cooling apparatus. A. B. Modine. 1,709,863; Apr. 23.  
 Cooling apparatus for electrical machines. A. Baumann. 1,733,179; Oct. 29.  
 Cooling apparatus, Milk-. J. R. Davis. 1,740,646; Dec. 24.  
 Cooling apparatus, Room-. G. A. Kramer. 1,706,852; Mar. 26.  
 Cooling apparatus, Water-. E. E. Beede. 1,716,945; June 11.  
 Cooling attachment, Limekiln. C. R. Birdsey. 1,733,857; Oct. 29.  
 Cooling bed. A. Noell. 1,718,870; June 25.  
 Cooling box, Bottle-. C. A. Frick. 1,728,535; Sept. 17.  
 Cooling cabinet, Bottled-beverage-. H. W. Hibbard. 1,716,522; June 11.  
 Cooling chamber. W. R. Bendy. 1,730,839; Oct. 8.  
 Cooling chamber for smoking pipes. A. C. Schreiter. 1,721,531; July 23.  
 Cooling device. D. W. Low. 1,711,957; May 7.  
 Cooling device. W. H. Monroe. 1,698,104; Jan. 8.  
 Cooling device, Centrifugal. J. Karmazin. 1,739,314; Dec. 10.  
 Cooling device, Cream-. A. N. Gullickson. 1,733,300; Oct. 29.  
 Cooling device, Fluid-. F. A. Anderson. 1,705,278; Mar. 12.  
 Cooling, Device for. P. Schlumbohm. 1,700,813; Feb. 5.  
 Cooling device for the reversing stator blades of turbines. M. Sedlmair. 1,741,957; Dec. 31.  
 Cooling device, Milk-. S. Adamy. 1,742,119; Dec. 31.  
 Cooling device, Oil-. E. M. Ray. 1,732,986; Oct. 22.  
 Cooling-device stand. A. E. Thornley. 1,707,203; Mar. 26.  
 Cooling device, Water-. C. R. Elliott. 1,703,392; Feb. 26.  
 Cooling drinking tubes, Apparatus for. A. Herz. 1,725,138; Aug. 20.  
 Cooling engine cylinders, System for. A. J. West. 1,705,628; Mar. 19.  
 Cooling internal-combustion engines. W. W. Muir. 1,700,270; Jan. 29.  
 Cooling jacket of internal-combustion motors. J. de Jong. 1,731,888; Oct. 15.  
 Cooling liquids, Device for. L. W. Hassensall. 1,712,701; May 14.  
 Cooling liquids, Device for. L. W. Hassensall. 1,740,509; Dec. 24.  
 Cooling liquids, Method and apparatus for. S. L. Bright. 1,700,430; Jan. 29.  
 Cooling liquids, Method of and apparatus for. T. Shipley. 1,718,310; June 25.  
 Cooling liquids or fluids, Arrangement for. H. Mager. 1,717,237; June 11.  
 Cooling means for engine pistons. N. Elliott. 1,742,028; Dec. 31.  
 Cooling means for insulated electrodes. F. S. Smith. 1,705,033; Mar. 12.  
 Cooling of coke, Apparatus for the. S. R. Illingworth. 1,716,727; June 11.  
 Cooling plate. E. P. Everhard. 1,733,253; Oct. 29.  
 Cooling rack. H. M. Gamble. 1,739,895; Dec. 17.  
 Cooling system. J. H. Hunt. 1,717,689; June 18.  
 Cooling system. W. T. Hunt. 1,741,464; Dec. 31.  
 Cooling system. A. G. M. Michell. Re17,401; Aug. 13.  
 Cooling system. W. W. Muir. 1,703,183-4; Feb. 26.  
 Cooling system. G. A. Peterson. 1,729,593; Sept. 24.  
 Cooling system. A. W. Pope, jr. 1,709,372; Apr. 16.  
 Cooling system, Compressor-. B. S. Aikman. 1,699,941; Jan. 22.  
 Cooling system, Engine-. L. V. Grantier. 1,701,615; Feb. 12.  
 Cooling system, Engine-. H. C. Mallory. 1,702,910; Feb. 19.  
 Cooling system for bearings. H. A. S. Howarth. 1,734,905; Nov. 5.  
 Cooling system for internal-combustion engines. L. P. Barlow and R. G. Breene. 1,730,111; Oct. 1.  
 Cooling system for internal-combustion engines. H. A. Flogaus. 1,731,618; Oct. 15.  
 Cooling system for internal-combustion engines. W. W. Muir. 1,710,268; Apr. 23.  
 Cooling system for internal-combustion engines, Air-. J. B. Gabrielson. 1,715,749; June 4.  
 Cooling system for internal-combustion engines, Exhaust-valve-. R. Friedl. 1,726,217; Aug. 27.  
 Cooling system, Gate-valve-. A. Borchardt. 1,727,958; Sept. 10.  
 Cooling system, Motor-. A. Nutt. 1,737,122; Nov. 26.  
 Cooling system, Water-. H. J. Sandell. 1,721,924; July 23.  
 Cooling tank. H. H. Nesbitt. 1,720,918; July 16.  
 Cooling the heating coil of an oil-cracking apparatus. G. Egloff and H. P. Benner. 1,725,067; Aug. 20.  
 Cooling the mandrels of tube-rolling mills, Apparatus for. H. Idel. 1,732,404; Oct. 22.  
 Cooling tower. J. M. Seymour. 1,739,867; Dec. 17.  
 Cooling unit for mechanical refrigerators. J. G. King. 1,732,091; Oct. 15.  
 Cooling unit for refrigerating mechanism. C. C. Spreen. 1,720,768; July 16.  
 Cooling unit for refrigerators. C. C. Spreen. 1,737,778; Dec. 3.  
 Cooling worts during fermentation. F. E. Lichtenhaeler. 1,731,073; Oct. 8.  
 Coop, Chick-raising. S. M. McCurdy. 1,733,382; Oct. 29.  
 Coop, Knockdown-. J. L. Crosley. 1,705,003; Mar. 12.  
 Coop or crate, Poultry. C. T. Hatch. 1,727,466; Sept. 10.  
 Coop, Poultry. C. E. Jackson. 1,703,625; Feb. 26.  
 Coop, Poultry. I. Willoughby. 1,707,834; Apr. 2.  
 Cop skewer for replenishing loom shuttles. F. E. Douglas. 1,715,002; May 28.  
 Cop skewers, Making. F. E. Douglas. 1,720,412; July 9.  
 Copier for forming the ends of strips and sticks. W. R. Sautter. 1,736,629; Nov. 19.  
 Copper coating. J. G. Dely. 1,735,000; Nov. 12.  
 Copper fins to cast-iron cylinders, Attaching. C. P. Grimes. 1,721,878; July 23.  
 Copper from copper oxide, Freeing. H. S. Lukens and R. P. Heuer. 1,730,775; Oct. 8.  
 Copper-melting furnace, Continuous. H. S. Lukens and R. P. Heuer. 1,733,419; Oct. 29.  
 Copper oxide from copper, Removing. H. S. Lukens and R. P. Heuer. 1,698,443; Jan. 8.  
 Copper sulphate, Obtaining. M. Speichert. 1,715,871; June 4.  
 Copper sulphate, Production of basic. H. Hofmann. 1,716,492; June 11.  
 Copyholder. B. F. Blakeman and A. W. Craver. 1,701,354; Feb. 5.  
 Copyholder. C. R. Drake. 1,730,358; Oct. 8.  
 Copyholder. C. R. Drake and J. Heberling. 1,707,602; Apr. 2.  
 Copyholder. H. A. Marrable. 1,719,667; July 2.  
 Copyholder. H. J. and C. J. Ostdiek. 1,709,188; Apr. 16.  
 Copyholder for photographic machines. A. W. Caps. 1,702,494; Feb. 19.  
 Copyholder for typewriters. L. R. Douglas. 1,700,629; Jan. 29.  
 Copyholder, Vacuum. F. Douthitt. 1,705,005; Mar. 12.  
 Copying machine, Hectograph duplicating. W. E. Williams. 1,738,629; Dec. 10.  
 Copying on machine tools, Device for. F. Stein. 1,739,268; Dec. 10.  
 Corbel block. G. Allen, jr. 1,698,524; Jan. 8.  
 Cord connector, Electric. S. Shaler. 1,731,274; Oct. 15.  
 Cord connection for electrical appliances, Flexible. J. A. Poole. 1,730,945; Oct. 8.  
 Cord, Curtain-supporting draw. L. G. Egger. 1,740,974; Dec. 24.  
 Cord fabric, Apparatus for forming weftless. M. Castri-cum. 1,723,501; Aug. 6.  
 Cord-forming apparatus. L. Atwood. 1,742,172; Dec. 31.  
 Cord for surgical ligatures. P. Bost. 1,703,385; Feb. 26.  
 Cord grip for electrical apparatus. C. W. D. Peel. 1,706,898; Mar. 26.  
 Cord machine. H. P. Ruf. 1,736,221; Nov. 19.  
 Cord reel, Combined. M. H. Shoenberg and L. Schon. 1,725,308; Aug. 20.



- Cord-reinforced tube. E. Fetter. 1,740,445; Dec. 24.  
 Cord set. F. C. De Reamer. 1,718,537; June 25.  
 Cord take-up and protector. L. C. Smith. 1,734,605; Nov. 5.  
 Cord, Telephone-plug. W. I. Middleton. 1,739,012; Dec. 10.  
 Cord tips, Making. W. V. Thompson. 1,706,005; Mar. 19.  
 Cords in rubber sheets, Apparatus for incorporating. M. Casticum. 1,714,848; May 28.  
 Cordeau, Manufacture of. W. O. Snelling and C. B. Koch. 1,741,880; Dec. 31.  
 Core bar, Collapsible. J. E. Perry. 1,711,963; May 7.  
 Core bars in flasks, Supporting. J. R. McWane. Re17,362-3; July 2.  
 Core barrel, Rotary. R. C. Baker. 1,720,877; July 16.  
 Core bit. C. W. Metzger. 1,701,895; Feb. 12.  
 Core box. J. B. Lukomski. 1,738,380; Dec. 3.  
 Core breaker and hoister. C. Wild. 1,730,705; Oct. 8.  
 Core, Coated. H. G. Walker. 1,734,700; Nov. 5.  
 Core, Collapsible. F. De Mattia. 1,718,636; June 25.  
 Core, Collapsible. B. De Mattia. 1,730,760; Oct. 8.  
 Core, Collapsible. B. De Mattia. 1,735,955; Nov. 19.  
 Core, Collapsible. F. L. Johnson. 1,740,245; Dec. 17.  
 Core, Collapsible. O. J. Kuhlke. 1,704,291-3; Mar. 5.  
 Core, Collapsible. I. J. Remark. 1,709,810; Apr. 16.  
 Core, Collapsible. I. J. Remark. 1,711,460; Apr. 30.  
 Core, Collapsible. H. D. Stevens. 1,723,386; Aug. 6.  
 Core drier. B. S. Harrison. 1,724,196; Aug. 13.  
 Core drill. J. T. Phipps and H. C. Smith. 1,721,921; July 23.  
 Core drill. F. Stone. 1,720,700; July 16.  
 Core drill. B. D. Thompson. 1,739,928; Dec. 17.  
 Core drill. E. Whinnen. 1,739,934; Dec. 17.  
 Core drilling and extracting device. E. Smith. 1,716,092; June 4.  
 Core for electric water heaters. G. F. Webb. 1,727,459; Sept. 10.  
 Core for hard materials and applying same. Soft. W. S. Grau and J. O. Bishop. 1,710,356; Apr. 23.  
 Core for hollow rubber articles, Manufacturing. R. S. Burdette. 1,714,999; May 28.  
 Core for molds. G. Bühler. 1,739,542; Dec. 17.  
 Core for single-tube tires. S. C. Hatfield. 1,704,538; Mar. 5.  
 Core-inserting apparatus. R. E. Flaherty. 1,730,651; Oct. 8.  
 Core-making machine. D. W. Candler. 1,703,708; Feb. 26.  
 Core-making machine. R. S. Cicero. 1,739,663; Dec. 17.  
 Core, Multipart. A. B. Norton. 1,697,842; Jan. 1.  
 Core or form, Collapsible. O. J. Kuhlke. 1,704,294; Mar. 5.  
 Core peeling device for foundries. R. Brune. 1,735,890; Nov. 19.  
 Core structure, Collapsible. P. de Mattia. 1,735,896; Nov. 19.  
 Coring machine. Tomato. C. H. Ayars. 1,717,827; June 18.  
 Cores of molds, Making reinforced. D. J. Ryan. 1,717,325; June 11.  
 Cork and the manufacture thereof, Composition. E. Vincke. 1,722,648; July 30.  
 Cork articles, Process of and apparatus for making. W. G. Bond. 1,716,293; June 4.  
 Cork composition. E. A. Daniels and H. S. Snell. 1,732,398; Oct. 22.  
 Cork-cutting machine. J. Engestoft. 1,724,997; Aug. 20.  
 Cork-extractor and cap-remover tool. A. E. Hyland. 1,707,898; Apr. 2.  
 Cork facings for laundry rolls, Forming. W. F. Grupe. 1,718,647; June 25.  
 Cork products and the manufacture thereof. E. Vincke. 1,722,611; July 30.  
 Cork puller and bottle opener, Combined. F. A. Topping. Des. 79,687; Oct. 22.  
 Corkscrew, Pocket. W. C. Hering. 1,701,950; Feb. 12.  
 Corn and callous remover. R. C. Jackson. 1,714,371; May 21.  
 Corn huller. F. A. Maimone. 1,708,367; Apr. 9.  
 Corn-husking machine. C. T. Howson. 1,727,507; Sept. 10.  
 Corn-husking machine. W. W. Morral. Re17,504; Nov. 26.  
 Corn lifter. J. Pavlicek. 1,707,992; Apr. 9.  
 Corn pad. P. G. Anderson. 1,736,515; Nov. 19.  
 Corn picker. C. H. Johnson. 1,717,882; June 18.  
 Corn picker. R. M. Mitchell. 1,734,391; Nov. 5.  
 Corn picking and husking machine. G. C. Jett. 1,727,012; Sept. 3.  
 Corn planter, Wireless. S. G. Severson. 1,717,415; June 18.  
 Corn popper. W. L. Hood. 1,733,301; Oct. 29.  
 Corn popper, Self-propelled. H. S. Lewis. 1,730,515; Oct. 8.  
 Corn-popping apparatus. C. Cretors. 1,729,866; Oct. 1.  
 Corn-shocking machine. L. A. Demorest. 1,702,500; Feb. 19.  
 Corn-snapping rolls and the like. A. R. Keeler. 1,736,347; Nov. 19.  
 Corner bead for plastering. F. C. Wolcott. 1,728,461; Sept. 17.  
 Corner iron, Bottle-crate. W. C. Krause. 1,702,874; Feb. 19.  
 Corner lock. M. Fox. 1,726,291; Aug. 27.  
 Corner structure. W. H. Knobloch. 1,735,047; Nov. 12.  
 Cornets, Damping device for. O. Gantner. 1,741,835; Dec. 31.  
 Cornice and pilaster, Combination. G. E. Gaston. Des. 77,540-1; Jan. 22.  
 Cornice and pilaster, Combination. W. T. Hormes. Des. 77,600; Jan. 29.  
 Cornice, Drapery. W. E. Wittenbrock. Des. 78,599; May 21.  
 Cornice mold. A. K. Laquidara. 1,733,065; Oct. 22.  
 Cornstalk cutting and assembling machine. F. R. Dean. 1,714,851; May 28.  
 Correction device. J. M. Lucarelle. 1,740,468; Dec. 24.  
 Corrosion in hydrocarbon-oil-treating apparatus, Prevention of substantial. J. C. Morrell and H. F. Benner. 1,715,095; May 28.  
 Corrosion-resisting coating. R. J. Wirshing and H. R. Faas. 1,738,748; Dec. 10.  
 Corrugated board, Making. H. A. Cumfer. 1,709,934; Apr. 23.  
 Corrugating machinery. S. P. Thomson and H. C. Rockhill. 1,699,412; Jan. 15.  
 Corrugating metallic plates. A. E. Small. 1,700,147; Jan. 29.  
 Corrugations from bendable material, Process and apparatus for removing. A. Mauser. 1,711,644; May 7.  
 Corrugator, Shear-blade. H. D. Mitchell. 1,704,334; Mar. 5.  
 Corselet. N. Berliner. 1,702,034; Feb. 12.  
 Corselet ensemble, Silhouette. A. F. Moriarty. 1,724,301; Aug. 13.  
 Corset. J. J. Kispert. 1,738,484; Dec. 3.  
 Corset. E. B. and A. Stewart. 1,728,985; Sept. 24.  
 Corset. R. D. Ulman. 1,738,158; Dec. 3.  
 Corset. M. Von Halle. 1,716,993; June 11.  
 Corset and brassiere, Combination. L. J. Mead. 1,727,479; Sept. 10.  
 Corset and brassiere, Combined. C. Petersen. 1,718,000; June 18.  
 Corset and similar garment. G. A. Barclay. 1,718,772; June 25.  
 Cosmetic applicator and making same. A. M. Fisher. 1,724,756; Aug. 13.  
 Cosmetic box. F. and W. A. Goertz. 1,697,180; Jan. 1.  
 Cosmetic box. W. E. Wacker. 1,735,482-3; Nov. 12.  
 Cosmetic carrier. F. Goertz. 1,712,496; May 14.  
 Costume or garment, Bathing or swimming. M. W. Browdy. 1,723,402; Aug. 6.  
 Costume slip. S. L. Ellis. 1,700,630; Jan. 29.  
 Costumer. C. R. Davis. 1,729,539; Sept. 24.  
 Costumer, Collapsible. M. J. Mandel. 1,729,395; Sept. 24.  
 Cot, Ambulance. W. E. Klever. 1,702,010; Feb. 12.  
 Cot and rolling chair, Combined hospital. A. G. Hackney. 1,710,820; Apr. 30.  
 Cot, Hospital rolling. J. White. 1,738,548; Dec. 10.  
 Cot, Invalid's. P. Hunter. 1,741,717; Dec. 31.  
 Cotter key means, Self-opening. G. T. Cooke. 1,722,624; July 30.  
 Cotter-key puller. C. H. Buckle. 1,707,842; Apr. 2.  
 Cotter pin. M. J. Cody and J. I. Jobe. 1,725,700; Aug. 20.  
 Cotter-pin extractor. L. J. Osborne. 1,701,052; Feb. 5.  
 Cotter-pin-locking means. G. T. Cooke. 1,740,284; Dec. 17.  
 Cotton and the like, Machine for opening and cleaning. L. Wild and F. Quinn. 1,705,433; Mar. 12.  
 Cotton, Apparatus for picking. K. L. Herrmann. 1,707,010; Mar. 26.  
 Cotton-baling process. J. A. Taft. 1,733,434; Oct. 29.  
 Cotton blocker. T. B. Garrett. 1,709,259; Apr. 16.  
 Cotton blocker. T. B. Hardin. 1,703,393; Feb. 26.  
 Cotton chopper. R. B. Clark. 1,723,502; Aug. 6.  
 Cotton chopper. C. E. Morris. 1,736,127; Nov. 19.  
 Cotton chopper. B. F. Watkins. 1,728,145; Sept. 10.  
 Cotton cleaner. C. S. Cox. 1,729,503; Sept. 24.  
 Cotton cleaner. E. L. Farley. 1,709,663; Apr. 16.  
 Cotton cleaner. E. L. Farley. 1,709,714-5; Apr. 16.  
 Cotton cleaner. W. L. Hancock. 1,714,953; May 28.  
 Cotton cleaner. J. H. McDonough and O. Mitchell. 1,728,501; Sept. 17.  
 Cotton-cleaner beater shaft. J. B. Brennan. 1,742,129; Dec. 31.  
 Cotton cleaners, Variable-speed operating mechanism for. J. A. Streun. 1,727,734; Sept. 10.  
 Cotton, Cleaning. G. R. Spencer. 1,723,531; Aug. 6.  
 Cotton-cleaning assembly. J. A. Streun. 1,721,932; July 23.  
 Cotton-cleaning machine. R. L. Gilliland and H. McElhannon. 1,724,573; Aug. 13.  
 Cotton-cleaning machine. J. A. Reedy. 1,701,796; Feb. 12.  
 Cotton-drawing frame with balling head. E. Koch. 1,721,783; July 23.  
 Cotton feeder. E. C. Cameron. 1,716,112; June 4.  
 Cotton feeders, Adjustable discharge slide for. T. Elliott. 1,721,380; July 16.  
 Cotton gin. J. Behle. 1,719,285; July 2.  
 Cotton gin. C. S. Cox. 1,717,356; June 18.  
 Cotton gin. C. S. Cox. 1,717,436; June 18.  
 Cotton gin. J. L. Hart. 1,703,002; Feb. 19.  
 Cotton gin. J. E. Mitchell. 1,724,500; Aug. 13.  
 Cotton gin. J. E. and O. Mitchell. 1,734,593; Nov. 5.  
 Cotton gin. W. L. Pettit. 1,721,036; July 16.  
 Cotton gin. C. R. Pressley. 1,717,324; June 11.  
 Cotton gin. C. R. Pressley and F. B. Williams. 1,738,391; Dec. 3.  
 Cotton gin. F. B. Williams. 1,717,323; June 11.  
 Cotton-gin doffing outfit, Pneumatic. H. F. Yeargan. 1,716,099; June 4.



- Cotton-gin feeder. W. L. Hancock. 1,719,294; July 2.  
 Cotton-gin presses. Retaining dog for. E. E. Tate. 1,726,935; Sept. 3.  
 Cotton-gin rib. G. W. Hall. 1,697,562; Jan. 1.  
 Cotton gins. Attachment for. S. H. Hastings and C. C. Hall. 1,721,300; July 16.  
 Cotton gins. Rib rail for. J. Behle. 1,697,676; Jan. 1.  
 Cotton-handling drum. J. Behle. 1,727,925; Sept. 10.  
 Cotton-harvesting machine. C. N. Goodwin. 1,725,151; Aug. 6.  
 Cotton, Improving. L. Lilienfeld. 1,736,712-13; Nov. 19.  
 Cotton, Improving. L. Lilienfeld. 1,738,190; Dec. 3.  
 Cotton picker. J. Ferrier. 1,714,595; May 28.  
 Cotton picker. N. F. Higgins. 1,711,316; Apr. 30.  
 Cotton picker. E. A. Johnston, D. B. Baker, and C. R. Hagen. 1,737,850; Dec. 3.  
 Cotton picker. E. A. Johnston, B. R. Benjamin, and D. B. Baker. 1,727,708-9; Sept. 10.  
 Cotton picker. J. Shelley. 1,715,309; May 28.  
 Cotton-picker machines. Stripper brush for. F. R. Friend. 1,731,717; Oct. 15.  
 Cotton picker, Mechanical. B. C. Houghton. 1,727,774; Sept. 10.  
 Cotton-picking apparatus. P. P. Haring. 1,715,655; June 4.  
 Cotton-picking machine. W. Morava. 1,731,825-6; Oct. 15.  
 Cotton-picking machine. A. C. Vaughan. 1,713,572; May 21.  
 Cotton-picking-machine hand pieces, Rotor of. J. Ferrier. 1,714,553; May 28.  
 Cotton recleaner and gin, Combined. J. E. Mitchell. 1,707,131; Mar. 26.  
 Cotton recleaner and gin, Combined. J. E. and O. Mitchell. 1,710,061; Apr. 23.  
 Cottonseed and the like. Apparatus for defibrating. E. C. De Segundo. 1,733,947; Oct. 29.  
 Cottonseed-delinting machine. D. Taylor. 1,727,572; Sept. 10.  
 Cottonseed handler. P. A. Fitzhugh. 1,735,920; Nov. 19.  
 Cottonseed hull and fiber separator. F. K. Gardner. 1,733,256; Oct. 29.  
 Cottonseed, Selecting. V. U. Cloer. 1,718,332; June 25.  
 Cotton-seeding mechanism. W. Shaw. 1,735,135; Nov. 12.  
 Cotton separating and cleaning machine. J. E. Mitchell. 1,734,592; Nov. 5.  
 Cotton separator. B. R. Benjamin. 1,709,553; Apr. 16.  
 Cotton separator. J. A. Streun. 1,720,702; July 16.  
 Cotton spinning. Draft apparatus for. R. Nigrin and R. Horsak. 1,722,006; July 23.  
 Cotton stripper. F. R. Friend. 1,716,769; June 11.  
 Cotton-topping machine. T. K. McCarter. 1,730,281; Oct. 1.  
 Cotton-treating machine. T. Self. 1,724,780; Aug. 13.  
 Cotton-working machines. Controlling mechanism for. J. W. Woodward. 1,709,646; Apr. 16.  
 Couch having a divided reclining surface. H. J. Müller. 1,701,588; Feb. 12.  
 Couch or davenport, Folding. W. E. Frank. 1,732,007; Oct. 15.  
 Couch roll. N. E. Booth. 1,719,647; July 2.  
 Couches, chairs, etc., Resilient bottom for. J. Kronheim. 1,722,584; July 30.  
 Counter. E. O. Henderson. 1,729,268; Sept. 24.  
 Counter, Article. R. Fitch. 1,730,498; Oct. 8.  
 Counter attachment. Bullet-proof. C. M. Smart. 1,736,672; Nov. 19.  
 Counter, Automatic stock. R. Holman. 1,705,766; Mar. 19.  
 Counterbalance. J. B. Picard. 1,731,263; Oct. 15.  
 Counterbalance for cotton-press side doors, Automatic. J. J. Wallace. 1,728,089; Sept. 10.  
 Counterbalance for oil-well pumps. S. L. Crawshaw. 1,729,737; Oct. 1.  
 Counterbalance. Sliding-beam. C. C. Miller and J. B. East. 1,706,407; Mar. 26.  
 Counterbalancing means for pumping apparatus. L. Keim. 1,722,096; July 23.  
 Counterbore, Adjustable. O. Severson. 1,702,485; Feb. 19.  
 Counter cut-out. L. J. Clairis. 1,738,816; Dec. 10.  
 Counter, Elapsed-running-time. R. W. Bumstead. 1,739,058; Dec. 10.  
 Counter, Garment. J. K. Voehringer, jr., and R. A. Gibbs, jr. 1,729,497; Sept. 24.  
 Counter-molding machine. H. E. Benner. 1,704,587; Mar. 5.  
 Counter, Refrigerated display. W. A. Richter. 1,711,691; May 7.  
 Counter, Refrigerating. F. E. Dennison. 1,735,495; Nov. 12.  
 Counter, Refrigerating. E. Platten. 1,710,381; Apr. 23.  
 Counter, Refrigerating. E. Platten. 1,723,630; Aug. 6.  
 Counter, Refrigerating. E. Platten. 1,728,696; Sept. 17.  
 Counter, Refrigerator. J. J. Willenborg. 1,710,131; Apr. 23.  
 Counter, Refrigerator display. L. A. Banta. 1,729,058; Sept. 24.  
 Counter, Shoe. F. L. Mason and A. Gagliardi. 1,699,474; Jan. 15.  
 Counterweight means for crank shafts and forming and attaching. H. H. Keepers. 1,705,187; Mar. 12.  
 Counterweight mechanism. J. E. Glockler. 1,736,784; Nov. 26.  
 Counting and grouping machine. J. S. Reaves. 1,737,023; Nov. 26.  
 Counting and tabbing apparatus. A. Broadmeyer. 1,728,327; Sept. 17.  
 Counting apparatus. Thread. A. Chronik and L. Chronik. 1,740,970; Dec. 24.  
 Counting frame. C. Röpke. 1,714,106; May 21.  
 Counting machine. E. P. Kreevoy. 1,700,292; Jan. 29.  
 Counting machine. G. A. Steiner and J. Evans. 1,720,495; July 9.  
 Counting mechanism. N. H. Curtiss. 1,715,995; June 4.  
 Counting mechanism. G. E. Gooding. 1,723,344; Aug. 6.  
 Counting mechanism. H. L. MacNeill. 1,710,229; Apr. 23.  
 Counting mechanism. V. Waitkus. 1,741,387; Dec. 31.  
 Counting mechanism, Sheet-. A. Broadmeyer. 1,700,365; Jan. 29.  
 Coupler. W. F. Richards. 1,703,598; Feb. 26.  
 Coupler. J. Susio. 1,704,638; Mar. 5.  
 Coupler device, Electric. R. R. Stevens. 1,703,906; Mar. 5.  
 Coupler for train lines. W. T. Gray. 1,699,787; Jan. 22.  
 Coupler gauge. A. M. Bauman. 1,731,968; Oct. 15.  
 Coupler, Hose. E. H. Gold, T. H. Manchester, and E. A. Russell. 1,733,791; Oct. 29.  
 Coupler, Hose. E. N. Roth. 1,733,390; Oct. 29.  
 Coupler, Safety. L. A. Brown. 1,726,053; Aug. 27.  
 Coupler, Safety car. W. A. McCurdy. 1,704,050; Mar. 5.  
 Coupler with buffer. G. F. Couch. 1,729,476; Sept. 24.  
 Couplers, Positioning device for railway-car. A. E. Small. 1,700,148; Jan. 29.  
 Coupling: See—  
     Alignment coupling. Pipe coupling.  
     Car coupling. Quick-acting coupling.  
     Chain coupling. Resilient coupling.  
     Conduit coupling. Rod coupling.  
     Cultivator gang coupling. Shaft coupling.  
     Drawbar coupling. Shaft and like coupling.  
     Drill-pipe coupling. Slip coupling.  
     Driving coupling. Spring coupling.  
     Elastic coupling. Swivel coupling.  
     Electric coupling. Threadless coupling.  
     Fill, air-vent, and relief coupling. Toggle coupling.  
     Flexible coupling. Tool coupling.  
     Floating coupling. Towrope coupling.  
     Friction coupling. Trailer coupling.  
     Hose coupling. Train-line coupling.  
     Magnetic coupling. Union coupling.  
     Universal coupling.  
 Coupling. R. L. Aumack. 1,736,818; Nov. 26.  
 Coupling. H. E. Brice. 1,740,328; Dec. 17.  
 Coupling. W. T. Craig. 1,732,355; Oct. 22.  
 Coupling. J. H. La Londe. 1,702,943; Feb. 19.  
 Coupling. H. A. Pallady. 1,708,736; Apr. 9.  
 Coupling. C. S. Simmonds. 1,735,910; Nov. 19.  
 Coupling. G. A. Woody. 1,707,422; Apr. 2.  
 Coupling and analogous union, Pipe. H. B. Brown. 1,724,822; Aug. 13.  
 Coupling and making the same. E. E. Johnson. 1,716,138; June 4.  
 Coupling and nozzle connection, Hose. S. A. Erwin. 1,723,273; Aug. 6.  
 Coupling and radial ball, Flange. J. B. Quigley. 1,702,747; Feb. 19.  
 Coupling and release of air on railroad cars, Automatic. E. Schmolli. 1,737,271; Nov. 26.  
 Coupling apparatus. L. L. Jones. 1,714,269; May 21.  
 Coupling box for rolling mills. P. G. Palmgren. 1,734,978; Nov. 12.  
 Coupling connection for pump rods. A. L. Ligon. 1,719,664; July 2.  
 Coupling connection for vehicle springs, Resilient. R. L. Henry. 1,735,899; Nov. 19.  
 Coupling device. J. Bystricky. 1,725,975; Aug. 27.  
 Coupling device. F. A. Davidson. 1,706,147; Mar. 19.  
 Coupling device. O. Georg. 1,699,838; Jan. 22.  
 Coupling device. M. Rabb. 1,737,481; Nov. 26.  
 Coupling device, Expansion. D. Marinsky. 1,739,974; Dec. 17.  
 Coupling device for pipes. I. H. Kendall. 1,703,241; Feb. 26.  
 Coupling device, Inductive. R. S. Piper. 1,698,609; Jan. 8.  
 Coupling for air-brake hose and other hose of similar nature. H. E. Rinehart and N. H. Smith. 1,726,123; Aug. 27.  
 Coupling for conduit-outlet boxes. C. H. Bissell. 1,741,358; Dec. 31.  
 Coupling for corporation stops. R. H. Mueller. 1,710,267; Apr. 23.  
 Coupling for electric conductors, Plug-in. K. Schnell. 1,735,981; Nov. 19.  
 Coupling for electrical fixtures. W. A. Adams. 1,724,815; Aug. 13.  
 Coupling for flexible metal hose. C. Palmer. 1,699,911; Jan. 22.  
 Coupling for joining pipes or the like, Method of and. C. W. Stratford. 1,703,696; Feb. 26.  
 Coupling for pipes or conduits. C. F. Koch. 1,729,483; Sept. 24.  
 Coupling for ropes, Separable. C. H. Gaffner. 1,703,579; Feb. 26.  
 Coupling for rotary elements. D. Dunwoodie. 1,710,150; Apr. 23.  
 Coupling for shafts, Shock-absorbing. G. W. Cole. 1,708,923; Apr. 9.



- Coupling for tractor vehicles, Trailer. G. Pohlmann. 1,741,654; Dec. 31.
- Coupling for tractors, Releasable draft. R. Kliem and S. F. Urbanak. 1,700,767; Feb. 5.
- Coupling for vacuum cleaners. E. R. Field. 1,698,087; Jan. 8.
- Coupling-gauging machine. R. Scholz. 1,711,179; Apr. 30.
- Coupling lock. O. Ponto. 1,701,985; Feb. 12.
- Coupling means. F. A. Davidson. 1,706,214; Mar. 19.
- Coupling means, Adjustable. F. A. Davidson. 1,706,215; Mar. 19.
- Coupling mechanism, Well-tube-. H. G. Johnston. 1,700,291; Jan. 29.
- Coupling member. D. Marinsky. 1,739,975; Dec. 17.
- Coupling member for attaching devices. D. Marinsky. 1,702,640; Feb. 19.
- Coupling nipple, Lubricating. C. G. Butler. 1,734,996; Nov. 12.
- Coupling of pipes, Device for facilitating the. J. Zimmerman. 1,706,687; Mar. 26.
- Coupling or slipping device, Centrifugal friction. K. J. Wersäll. 1,715,805; June 4.
- Coupling strip. H. E. Sipe. 1,723,307; Aug. 6.
- Coupling system. J. De Vega. 1,736,036; Nov. 19.
- Coupling unit. B. Van Der Pol. 1,737,278; Nov. 26.
- Coupling winding, Variable reactive. R. S. Piper. 1,730,240; Oct. 1.
- Couplings and the like, Making hard-shell pump-rod. J. L. Gray, R. W. Gunn, and W. A. S. Thompson. 1,703,232; Feb. 26.
- Couplings, Apparatus for making expansion. P. J. Shrum. 1,711,182; Apr. 30.
- Couplings, Making flexible. W. E. Sykes. 1,717,817; June 18.
- Couplings on tubular members, Securing metal end. C. L. Deckard. 1,735,563; Nov. 12.
- Coupon booklet. S. Asaturian. 1,701,637; Feb. 12.
- Course and distance indicator. H. Addison and W. B. Luard. 1,723,757; Aug. 6.
- Course-maintaining means for automatic pilots. E. A. Sperry, Jr. 1,730,952; Oct. 8.
- Cover. R. N. Bittenuth. 1,734,761; Nov. 5.
- Cover. G. R. Metcalf, Jr. 1,719,301; July 2.
- Cover, Adjustable book. A. and I. A. Coleman. 1,698,391; Jan. 8.
- Cover and attachment, Switch-box. E. E. Hill and F. V. Magalhaes. 1,739,142; Dec. 10.
- Cover and humidifier, Radiator. J. E. Burke. 1,739,576; Dec. 17.
- Cover and making the same, Box. M. B. Claff. 1,721,430; July 16.
- Cover and powder-puff retainer, Combination powder-box. L. M. Bender. 1,716,291; June 4.
- Cover and support, Milk-can. N. E. Wright. 1,740,384; Dec. 17.
- Cover and tilt for road transport vehicles. J. H. Sparshatt. 1,729,555; Sept. 24.
- Cover and tray for receptacles, Combined. J. Heinrichs. 1,717,974; June 18.
- Cover and trough, Combined well. A. J. Cormier. 1,721,805; July 23.
- Cover, Automobile. M. M. Hardy. 1,715,286; May 28.
- Cover, Auto truck. A. G. Schlicher. 1,713,923; May 21.
- Cover, Battery-crate. F. B. Deans. 1,737,411; Nov. 26.
- Cover, Book. R. Reinisch. 1,730,244; Oct. 1.
- Cover, Box. C. N. Rayburn. Des. 79,098; July 30.
- Cover, Box. R. Thornton. Des. 80,195; Dec. 24.
- Cover, Boxing-glove. J. L. Restifo. 1,736,547; Nov. 19.
- Cover, Butter-tub. N. Roberts. 1,708,280; Apr. 9.
- Cover, Canvas auto. H. F. Mott. 1,728,437; Sept. 17.
- Cover, Casket. H. L. Gilkey. 1,719,364; July 2.
- Cover, Casserole. H. H. Schott. Des. 80,145; Dec. 17.
- Cover, Catalog. F. E. Rupf. 1,710,491; Apr. 23.
- Cover, Catalog. M. E. Yadon. Des. 78,679; May 28.
- Cover, Clothes-hanger. A. L. Chubb. 1,721,543; July 23.
- Cover, Combination clean-out and manhole. W. G. McMurray. 1,720,370; July 9.
- Cover, Combined transformer and conduit-box. D. V. Fallon. 1,721,775; July 23.
- Cover, Container. J. O. Grady. 1,738,893; Dec. 10.
- Cover, Container. C. S. Humphrey. 1,736,286; Nov. 19.
- Cover, Container. A. A. Schmidt and H. F. Kolell. 1,726,240; Aug. 27.
- Cover, Counterbalanced. H. W. Lormor. 1,721,308; July 16.
- Cover, Cream-can. H. E. Johnson. 1,722,921; July 30.
- Cover, Crib. W. D. Young. 1,735,521; Nov. 12.
- Cover, Crock. A. Anderson. 1,717,538; June 18.
- Cover, Cushion or pillow. A. Moudry. 1,716,145; June 4.
- Cover, Elastic tire. E. P. Borman. 1,710,808; Apr. 30.
- Cover, Electric-socket. J. Williamson. 1,703,976; Mar. 5.
- Cover-feeding means. J. Brenzinger. 1,715,984; June 4.
- Cover, Flexible handhole. C. A. Van Dusen. 1,722,346; July 30.
- Cover, Flowerpot. B. F. Blake. 1,697,751; Jan. 1.
- Cover for photograph albums and books, Picture. I. Kraushar. 1,710,483; Apr. 23.
- Cover for bed springs and the like. A. A. Schimmel. 1,732,663; Oct. 22.
- Cover for bedsprings, Detachable. D. Hanauer. 1,699,498; Jan. 15.
- Cover for bottle stoppers. C. Ellis. 1,731,194; Oct. 8.
- Cover for brooms. D. Wasserman. 1,710,598; Apr. 23.
- Cover for cans and the like. E. A. Ekdahl. 1,728,674; Sept. 17.
- Cover for conduit outlet boxes. J. T. Pearson and R. H. Olley. 1,706,811; Mar. 26.
- Cover for cooking vessel, Detachable. A. Kocher. 1,698,916; Jan. 15.
- Cover for cooking vessels, Detachable. R. N. Kircher. Re17,398; Aug. 6.
- Cover for curb boxes and the like. V. E. Beagle. 1,738,556; Dec. 10.
- Cover for dental chairs, Headrest. I. E. Rotner. 1,733,826; Oct. 29.
- Cover for dish or similar article. L. Anduze. Des. 77,722; Feb. 19.
- Cover for dishwashers and the like, Swinging. F. G. Brotz. 1,739,121; Dec. 10.
- Cover for dumping bodies, Sliding. C. G. Clement. 1,734,327; Nov. 5.
- Cover for floor coverings, Sanitary. D. S. Connelly. 1,722,660; July 30.
- Cover for fuel tanks, Breather. J. S. Patten. 1,730,237; Oct. 1.
- Cover for gun sights. C. L. Paulus and R. Kauch. 1,710,109; Apr. 23.
- Cover for hopper-cooled engines. O. E. Morgan. 1,723,365; Aug. 6.
- Cover for hose connections. R. E. Rothfus. 1,712,232; May 7.
- Cover for joints. C. R. Little. 1,740,740; Dec. 24.
- Cover for leaf springs and method for making. B. G. Gilbough. 1,705,183; Mar. 12.
- Cover for loose-leaf books. C. D. Russell. 1,711,161; Apr. 30.
- Cover for nipples of babies' drinking bottles made of paper or similar material, Sanitary. S. H. Dishart. 1,716,262; June 4.
- Cover for nursery-chair seats. H. E. McCandless. 1,704,915; Mar. 12.
- Cover for pews, Joint. J. L. Kessler. 1,722,226; July 23.
- Cover for reflectors. P. D. Phillips. 1,740,957; Dec. 24.
- Cover for refrigerating cabinets. L. G. Ratterman. 1,709,486; Apr. 16.
- Cover for sewing-machine pulleys. F. Dreyer and E. J. Lamy. 1,722,078; July 23.
- Cover for shoe heels. E. Marshall. 1,730,894; Oct. 8.
- Cover for slicing machines, Guide. F. L. van Weenen. 1,710,906; Apr. 30.
- Cover for spark-plug cables, Braided. H. Rabezzana. 1,697,822; Jan. 1.
- Cover for springs. L. M. Dixon. 1,700,720; Jan. 29.
- Cover for vanity cases or analogous articles. D. H. Zell. Des. 79,614-15; Oct. 15.
- Cover for watt-hour meters. W. G. Mylius. 1,699,804; Jan. 22.
- Cover, Garment-hanger. S. J. Johnson. 1,715,004; May 28.
- Cover, Garment-hanger. S. J. Johnson. 1,741,777; Dec. 31.
- Cover, Grave. G. H. Parker. 1,730,289; Oct. 1.
- Cover, Handhole. H. J. Barker. 1,721,683; July 23.
- Cover, Handhole. J. J. Cain. 1,730,721; Oct. 8.
- Cover, Hatch. R. MacGregor. 1,735,329; Nov. 12.
- Cover, Hatch. J. S. Wood. 1,701,965; Feb. 12.
- Cover-holding means for collar cans. H. Craver. 1,725,957; Aug. 27.
- Cover, Hood. E. Lehmann. 1,738,438; Dec. 3.
- Cover, Hot-water-bag. G. Dorsey. 1,711,876; May 7.
- Cover, Illuminated tire. O. C. Hathorn. 1,724,281; Aug. 13.
- Cover, Jar. P. P. Kucera. 1,702,476; Feb. 19.
- Cover, Kettle. J. Anderson. 1,734,608; Nov. 5.
- Cover, Kettle. W. H. Schmitt. 1,711,749; May 7.
- Cover lock. C. Ehret. 1,737,576; Dec. 3.
- Cover, Lock. V. P. Wendle. 1,720,110; July 9.
- Cover, Louver. W. S. Race. 1,704,210; Mar. 5.
- Cover, Manhole. J. L. Porter. 1,721,831; July 23.
- Cover, Mattress. D. B. Hershfield. 1,701,038; Feb. 5.
- Cover neck and lid, Milk-can-. P. F. Rauen. 1,723,523; Aug. 6.
- Cover or similar article, Casserole. S. Forman. Des. 79,462; Sept. 24.
- Cover or similar article, Jar. W. A. Boyd. Des. 79,011-12; July 23.
- Cover or similar article, Table. H. W. Dieck. Des. 79,285-6; Aug. 27.
- Cover or the like, Embroidered bridge-table. S. N. Mallouk. Des. 79,594-8; Oct. 15.
- Cover or the like, Embroidered table. S. N. Mallouk. Des. 79,833; Nov. 5.
- Cover or tilt for road transport vehicles. J. H. Sparshatt. 1,712,363; May 7.
- Cover, Packing. J. P. Ward. 1,713,724; May 21.
- Cover paper or similar article. F. W. Kewell. Des. 79,468; Sept. 24.
- Cover plate for electric wall boxes, Adjustable. R. H. Cunningham. 1,697,348; Jan. 1.
- Cover, Protective. R. E. Zuker. 1,718,623; June 25.
- Cover, Radiator. A. E. Blackman. 1,709,559; Apr. 16.
- Cover, Radiator. J. Cohen. 1,706,212; Mar. 19.
- Cover, Radio station indicator. D. Schwartz. Des. 79,911; Nov. 12.
- Cover replacing device for can-washing machines. W. E. Mitton. 1,721,256; July 16.
- Cover, Sanitary display. M. Lima and M. Ertmoed. 1,703,157; Feb. 26.
- Cover, Sanitary milk-bottle. R. E. Landes. 1,733,807; Oct. 29.



- Cover, Sanitary toilet. H. R. Williams. 1,730,047; Oct. 1.  
 Cover, Sanitary toilet-seat. J. H. Kennedy. 1,720,277; July 9.  
 Cover, Self-basting. O. Tallagsen. 1,735,589; Nov. 12.  
 Cover, Spare-tire. E. G. Glick. 1,741,105; Dec. 24.  
 Cover, Spare-tire. R. C. Schemmel. 1,700,081; Jan. 22.  
 Cover, Spring. A. F. Blanchard. 1,740,804; Dec. 24.  
 Cover, Storage-battery. B. Ford. 1,736,115; Nov. 19.  
 Cover, Suction-box. A. Lewis. 1,696,917; Jan. 1.  
 Cover, Thief-hole. W. G. McMurray. 1,739,911; Dec. 17.  
 Cover, Tire. W. T. Sutherland. 1,734,540; Nov. 5.  
 Cover, Toilet-seat. L. R. O'Connor. 1,713,674; May 21.  
 Cover, Toilet-seat. A. J. Vander Leun. 1,720,581; July 9.  
 Cover, Upholstery. J. P. Sadler, jr. 1,737,476; Nov. 26.  
 Cover, Weatherproof. G. Babcock. 1,714,485; May 28.  
 Covered box. C. C. Holden. 1,720,274; July 9.  
 Covered dumping body. C. G. Clement. 1,697,047; Jan. 1.  
 Covering and making same, Floor. L. Kirschbraun. 1,725,646; Aug. 20.  
 Covering, Bedstead. D. Thompson. 1,708,855; Apr. 9.  
 Covering for automobiles and the like, Floor. W. S. Turner. 1,715,523; June 4.  
 Covering for automobiles and the like, Floor. W. S. Vrooman. 1,715,525; June 4.  
 Covering for bathtubs, Protective. E. Burnham. 1,715,534; June 4.  
 Covering for dress-suit cases. R. Kisling. 1,722,473; July 30.  
 Covering for furniture. P. Rubenstein. 1,698,968; Jan. 15.  
 Covering for jewelry boxes and the like. J. M. Shields. Des. 79,942-3; Nov. 19.  
 Covering for vanity cases or analogous receptacles. D. H. Zell. Des. 78,176-85; Apr. 2.  
 Covering for vanity cases or analogous receptacles. D. H. Zell. Des. 78,247-51; Apr. 9.  
 Covering for vanity cases or analogous receptacles. D. H. Zell. Des. 79,118; July 30.  
 Covering heels. J. Burger. 1,709,307; Apr. 16.  
 Covering machine. J. J. Pleger. 1,711,363; Apr. 30.  
 Covering machine, Conductor-. O. A. Frederickson. 1,708,587; Apr. 9.  
 Covering, Making air-cell pipe. A. P. Jurgensen. 1,735,684; Nov. 12.  
 Covering, Protective. W. A. Pearsall, jr. 1,701,627; Feb. 12.  
 Covering, Roof or wall. E. W. Leshner. 1,702,609; Feb. 19.  
 Covering, Sulphur-containing. W. H. Kobbé. 1,741,522; Dec. 31.  
 Covering to retain cushion and mattress springs and the like. W. Kiwi. 1,725,282; Aug. 20.  
 Covers for beakers, Watch-glass. K. Stuesser. 1,738,804; Dec. 10.  
 Covers, Manufacturing manhole. A. E. Allison. 1,707,891; Apr. 2.  
 Covers, Operating on jar. W. J. Peelle. 1,722,763; July 30.  
 Covers to containers, Applying. V. C. Snyder. 1,709,196; Apr. 16.  
 Covers to containers, Securing. G. D. Parker. 1,715,780; June 4.  
 Covers to heels of boots and shoes, Method of and apparatus for attaching. F. B. McIntosh. 1,709,224; Apr. 16.  
 Cowl and windshield, Combined. O. H. Clark. Des. 78,336; Apr. 23.  
 Cowl, Bus. E. J. Hall. 1,727,823; Sept. 10.  
 Cowl for propeller hubs. A. Nelson. 1,730,742; Oct. 8.  
 Cowl, Vehicle body. J. R. Hughes. Des. 77,772; Feb. 19.  
 Cowling pin. C. N. Monteith and F. A. Walloch. 1,734,526; Nov. 5.  
 Cowlings, Manufacturing. A. A. Andrade. 1,733,770; Oct. 29.  
 Cow poke. A. B. Lund. 1,740,256; Dec. 17.  
 Cracking and oxidizing oils. C. Ellis. 1,697,266; Jan. 1.  
 Cracking hydrocarbon oils. H. L. Pelzer. 1,718,375; June 25.  
 Cracking hydrocarbon oils, Apparatus for. H. L. Pelzer. 1,719,486; July 2.  
 Cracking of hydrocarbons, Catalytic. G. Egloff. 1,722,042; July 23.  
 Cracking oil. J. C. Black. 1,715,980; June 4.  
 Cracking oil in liquid phase. J. C. Black. 1,720,070; July 9.  
 Cracking oils, Apparatus for. S. Seelig. 1,732,664; Oct. 22.  
 Cradle, Doll. C. L. Hoover. 1,715,600; June 4.  
 Cradle motor. F. J. Haburcak. 1,727,766; Sept. 10.  
 Cradle structure, Reciprocable. P. Capito and V. De Franco. 1,733,115; Oct. 29.  
 Cradles from crowned, domed, or similar structures, Supporting of. S. F. Burrows. 1,705,958; Mar. 19.  
 Craft, Combined air and water. J. Griffin. 1,702,343; Feb. 19.  
 Craftshop outfit, Home. L. R. Heston. 1,726,702; Sept. 3.  
 Cranberry-picking machine. W. E. Trufant. 1,725,382; Aug. 20.  
 Cranberry separator. D. E. Applegate. 1,700,302; Jan. 29.  
 Crane. C. W. Daughes. 1,706,441; Mar. 26.  
 Crane. R. S. Fow. 1,698,397; Jan. 8.  
 Crane. V. Gluckstein. 1,721,777; July 23.  
 Crane. E. H. Kendall. 1,727,206; Sept. 3.  
 Crane. G. E. Moore. 1,729,891; Oct. 1.  
 Crane. L. A. Russell. 1,710,322; Apr. 23.  
 Crane attachment for tractors. J. B. Barnett. 1,739,938; Dec. 17.  
 Crane for electrolytic refineries, Turntable. G. E. Moore. 1,697,538; Jan. 1.  
 Crane, Hoisting and lifting. F. J. Schmidt. 1,741,660; Dec. 31.  
 Crane, Interchangeable shovel. L. A. Russell. 1,700,181; Jan. 29.  
 Crane jack. G. E. Durand. 1,720,825; July 16.  
 Crane, Lifting. R. Wilts. 1,704,643; Mar. 5.  
 Crane, Motor-propelled. P. A. H. Mossay. 1,716,732; June 11.  
 Crane, Motor-propelled. P. A. H. Mossay. 1,733,356; Oct. 29.  
 Crane, Portable. D. C. Stromeyer. 1,736,102; Nov. 19.  
 Crane, Truck hoisting. E. C. Pitcher. 1,724,411; Aug. 13.  
 Crane, Wrecking. R. T. Beebe. 1,725,952; Aug. 27.  
 Crane, Wrecking. E. W. Holmes. 1,732,047; Oct. 15.  
 Cranes, Reducing clearance width of crawler. W. W. Sayers and A. Ehlersgaard. 1,731,911; Oct. 15.  
 Crank-case heater. D. P. Cutler. 1,723,331; Aug. 6.  
 Crank-case ventilation. E. A. De Waters. 1,701,405; Feb. 5.  
 Crank-case ventilator. J. E. Hines. 1,741,111; Dec. 24.  
 Crank-case ventilator. R. A. Vall. 1,706,424; Mar. 26.  
 Crank for bicycles, Variable-throw. J. E. Peyser. 1,714,134; May 21.  
 Crank for internal-combustion engines, Starting. A. Beau-bien. 1,720,778; July 16.  
 Crank mechanism. J. Dawson. 1,701,227; Feb. 5.  
 Crank-pin connection. H. A. Myers. 1,702,743; Feb. 19.  
 Crank pin, Locomotive. H. A. F. Campbell. 1,718,110; June 18.  
 Crank-pin lubricator. F. P. Roesch. 1,736,174; Nov. 19.  
 Crank shaft. A. Baer. 1,715,489; June 4.  
 Crank shaft. W. Noble. 1,731,215; Oct. 8.  
 Crank shaft. H. R. Ricardo. 1,705,375; Mar. 12.  
 Crank shaft. R. Worden. 1,735,707; Nov. 12.  
 Crank shaft, Composite. L. J. and C. L. Martin. 1,717,572; June 18.  
 Crank-shaft, flywheel, and clutch mechanism. J. G. Vincent. 1,727,142; Sept. 3.  
 Crank-shaft indicating and marking machine. H. G. Stoddard. 1,711,068; Apr. 30.  
 Crank-shaft-lapping machine. S. Player. 1,711,061; Apr. 30.  
 Crank structure for pitman drives, Compensating. T. R. Tarn. 1,726,249; Aug. 27.  
 Cranking device, Side-. D. Brown. 1,729,150; Sept. 24.  
 Cranking mechanism for starters or the like, Universal. R. Chilton. 1,731,451; Oct. 15.  
 Crankless engine. A. G. M. Michell. 1,729,448; Sept. 24.  
 Crankless engine. E. A. Sperry. 1,714,145; May 21.  
 Crankless mechanism. A. G. M. Michell. Re17,273; Apr. 16.  
 Crate. P. Flansburg. 1,730,131; Oct. 1.  
 Crate. H. N. Knowlton. 1,724,487; Aug. 13.  
 Crate-bar shaking and clinker-crushing apparatus. G. C. Marx. 1,741,062; Dec. 24.  
 Crate, Bottle. J. F. Maurer, jr. 1,735,772; Nov. 12.  
 Crate, Collapsible. F. L. Arduser. 1,697,379; Jan. 1.  
 Crate, Collapsible. C. W. Simpson. 1,710,274; Apr. 23.  
 Crate-cover clamp. A. E. Fyfe. 1,697,178; Jan. 1.  
 Crate, Egg. B. A. Lange. 1,697,318; Jan. 1.  
 Crate-filling apparatus, Egg-. L. L. Gillespie. 1,735,042; Nov. 12.  
 Crate for handling hollow tile or the like. J. J. Fullerton. 1,733,728; Oct. 29.  
 Crate, Grape. C. C. Houston. 1,711,023; Apr. 30.  
 Crate, Knockdown. K. K. McEntyre. 1,697,466; Jan. 1.  
 Crate, Milk-bottle. H. A. Hamilton. 1,703,733; Feb. 26.  
 Crate or coop, Folding. R. Garbs. 1,698,678; Jan. 8.  
 Crate, Picking. C. W. Haller. 1,711,054; Apr. 30.  
 Crate, Picking. S. L. Williams. 1,729,516; Sept. 24.  
 Crate, Poultry. L. W. Macomber and C. H. Jarvis. 1,704,947; Mar. 12.  
 Crating. E. F. Lau. 1,741,241; Dec. 31.  
 Cravats and ties, Fixing device for. R. Binnemann. 1,711,580; May 7.  
 Crazy house for amusement parks and the like. R. E. Bishop. Des. 78,727; June 18.  
 Cream cooler. C. J. Wiebusch. 1,728,146; Sept. 10.  
 Cream separator. T. Collins, jr. 1,731,999; Oct. 15.  
 Cream separator. D. T. Sharples. 1,719,522; July 2.  
 Cream separator, Centrifugal. D. T. Sharples. 1,710,593; Apr. 23.  
 Cream-separator driving means. W. Webb. 1,704,778; Mar. 12.  
 Creamer or similar article. F. Schmidt. Des. 79,264; Aug. 20.  
 Creasing cardboard and like material. E. L. Bishop. 1,729,415; Sept. 24.  
 Creel or basket, Fish. A. L. Hopkins. 1,700,315; Jan. 29.  
 Creeper. O. A. Dahlberg. 1,721,508; July 23.  
 Crematory, Garbage reduction and rubbish. J. Schaaf. 1,698,454; Jan. 8.  
 Cremona bolt. C. F. Geschickter. 1,707,978; Apr. 9.  
 Crib. F. Kusterle. 1,718,367; June 25.  
 Crib. C. K. Salmon. 1,728,982; Sept. 24.  
 Crib. W. A. Vollmer. 1,733,636; Oct. 29.  
 Crib and playpen, Combination. L. Taglang. 1,737,276; Nov. 26.  
 Crib and swing, Combined. H. B. Wihebrink. 1,706,762; Mar. 26.



- Crib, Automatic swinging. S. G. Crane. 1,727,635; Sept. 10.
- Crib, Collapsible. S. H. Frantz. 1,732,008; Oct. 15.
- Crib hook. F. S. Rece. 1,711,158; Apr. 30.
- Crib, Knockdown. F. S. Rece. 1,738,317; Dec. 3.
- Crib, Portable. L. A. Mand. 1,702,015; Feb. 12.
- Crib, Screened folding. R. G. Rumsey. 1,742,011; Dec. 31.
- Cribbage board. E. Kallio. 1,717,037; June 11.
- Cribbing. J. S. Hobson and J. S. Huntoon. 1,704,941; Mar. 12.
- Cribbing. J. S. Hobson and J. S. Huntoon. 1,707,224; Apr. 2.
- Crimping bead flipper. E. Hutchens. 1,726,987; Sept. 3.
- Crock-making mold. G. G. Westerfield. 1,740,757; Dec. 24.
- Cross-aisle light. J. B. Kausal. 1,738,712; Dec. 10.
- Cross-arm clamp. C. C. Coon. 1,722,075; July 23.
- Crossbar setter. M. Horbath. 1,708,761; Apr. 9.
- Cross-folding machine. G. Spiess. 1,725,837; Aug. 27.
- Cross folding machine. G. Spiess. 1,730,749; Oct. 8.
- Crosshead. C. A. Knapp. 1,707,228; Apr. 2.
- Cross member for tire chains. E. R. Herzog. 1,725,352; Aug. 20.
- Cross-talk meter. A. G. Chapman. 1,704,786; Mar. 12.
- Cross-tie for electric locomotives. C. C. C. Burkhardt. 1,704,651-2; Mar. 5.
- Cross-tie for locomotives, Valve-motion bearer. L. L. Neebe. 1,707,174; Mar. 26.
- Crossing bar apparatus for single-track railways, Automatic. Y. Ogawa. 1,707,872; Apr. 2.
- Crossing block for railways, Automatic. T. M. Cain. 1,702,150; Feb. 12.
- Crossing gate. L. Lamagna and A. Botta. 1,712,441; May 7.
- Crossing gate, automatic. M. Klasko. 1,713,608; May 21.
- Crossing gate, Automatic railroad. W. E. Mulch. 1,722,337; July 30.
- Crossing gate, Railroad. M. Franich. 1,706,112; Mar. 19.
- Crossing gate, Railroad. R. V. Phillips. 1,718,001; June 18.
- Crossing gate, Railroad. J. H. Prath. 1,717,519; June 18.
- Crossing protector, Automatic. M. F. Davis. 1,714,417; May 21.
- Crossing, Railroad grade. J. A. Dailey and L. W. Gerth. 1,723,289; Mar. 19.
- Crossing signal. E. R. Green. 1,712,820; May 14.
- Crossing signal. W. Jones. 1,733,884; Oct. 29.
- Crossing signal. J. A. Rhoades. 1,708,591; Apr. 9.
- Crossing signal, Railroad. E. H. Englehorn. Des. 79,068; July 30.
- Crossing signal, Railroad. D. W. Lucas. 1,735,647; Nov. 12.
- Crossing signal, Railroad. F. B. Smith. 1,723,895; Aug. 6.
- Crossing signal, Railway. R. T. Braswell and O. M. Flanders. 1,705,001; Mar. 12.
- Crotonic aldehyde, Hydrogenating. H. C. Holden. 1,724,761; Aug. 13.
- Crotyl bromide, Manufacture of. K. Meisenburg. 1,725,156; Aug. 20.
- Crown and traveling block pulley. J. A. Tidball. 1,726,507; Aug. 27.
- Crown cap, Double-lock. A. F. McDonnell. 1,724,213; Aug. 13.
- Crowning machine. C. H. Oslund and J. E. Johnson. 1,698,963; Jan. 15.
- Crucible. G. H. Halvorson. 1,720,327; July 9.
- Crucible-handling device. H. G. Wellman. 1,722,777; July 30.
- Crusher: See—
- Gyrotory crusher. Jaw crusher.
- Hammer crusher. Rock crusher.
- Crusher. H. H. Rumpel. 1,717,894; June 18.
- Crusher for raw sugar in bags. W. H. Hoodless. 1,728,969; Sept. 24.
- Crushing and grinding machine. A. C. Hamey and J. Stoneham. 1,706,290; Mar. 19.
- Crushing, grinding, and refining machine. S. Bramley-Moore. 1,740,194; Dec. 17.
- Crushing machine. J. J. Denny. 1,704,823; Mar. 12.
- Crushing machine. L. P. Walker. 1,712,369; May 7.
- Crushing machine. L. P. Walker. 1,738,161; Dec. 3.
- Crushing machine for hard materials. J. Ihlefeldt. 1,719,979; July 9.
- Crushing mill. A. H. Stebbins. 1,708,195; Apr. 9.
- Crushing or pulverizing machine. W. R. Hume. 1,719,549; July 2.
- Crushers. Adjustable cage for. W. P. Gruendler. 1,725,135; Aug. 20.
- Crushers. Cage support for. O. J. Williams. 1,697,297; Jan. 1.
- Crushers, pulverizers, and belt conveyers, Feeder for. P. S. Knittel. 1,725,283; Aug. 20.
- Crust crusher for beet cultivators. B. O. Jeppson. 1,718,823; June 25.
- Crutch. J. L. Shaban. 1,733,430; Oct. 29.
- Crutch. W. M. Taylor. 1,709,501; Apr. 16.
- Crutch attachment. H. F. Frantz. 1,717,314; June 11.
- Crutch cushion. C. E. McKeag. 1,732,763; Oct. 22.
- Crystal calibrator harmonic selector and amplifier circuit. R. H. Worrall. 1,696,933; Jan. 1.
- Crystal-cutting machine. R. Pollak. 1,712,399; May 7.
- Crystal detector. F. E. Mann. 1,702,836; Feb. 19.
- Crystallization process. A. W. Allen. 1,735,987; Nov. 19.
- Crystals, Piezo-electric. C. F. Brush, jr. 1,698,669; Jan. 8.
- Crystals, Producing big. P. Seidler. 1,697,543; Jan. 1.
- Cubicles, bathing boxes, and the like, Construction of. S. F. Corby and J. Wasp. 1,739,664; Dec. 17.
- Cuff, Detachable. J. C. Holland. 1,737,796; Dec. 3.
- Cuff for knickers. J. Friedman. 1,723,028; Aug. 6.
- Culinary appliance. W. F. Hackett. 1,712,143-4; May 7.
- Culinary chopper. R. Burke. 1,697,902; Jan. 8.
- Culinary mixer. F. H. Parker and K. H. Kolpien. 1,740,709; Dec. 24.
- Culinary mold. R. Lezius. 1,711,686; May 7.
- Cultivating attachment. W. J. Horton. 1,712,702; May 14.
- Cultivating implement. O. Hoffman. 1,722,293; July 30.
- Cultivating soil and a cultivator, Method of. S. H. Brundige. 1,732,496; Oct. 22.
- Cultivator. L. W. Chase and J. C. Brand. 1,700,728; Jan. 29.
- Cultivator. D. H. Clubb. 1,726,384; Aug. 27.
- Cultivator. J. R. Fell. 1,719,694; July 2.
- Cultivator. E. H. Fincher and G. W. Fincher. 1,739,508; Dec. 17.
- Cultivator. R. H. Kipp. 1,718,789-90; June 25.
- Cultivator. R. E. Martin. 1,710,232; Apr. 23.
- Cultivator. S. E. Mauney. 1,697,775; Jan. 1.
- Cultivator. J. O. Modolell. 1,715,467; June 4.
- Cultivator. C. F. Perham. 1,697,572; Jan. 1.
- Cultivator. A. Peterson. 1,714,442; May 21.
- Cultivator. G. A. Raptis. 1,739,418; Dec. 10.
- Cultivator. A. W. Reynolds. 1,723,075; Aug. 6.
- Cultivator. W. M. Reynolds. 1,737,519; Nov. 26.
- Cultivator. A. W. Reynolds. 1,739,327; Dec. 10.
- Cultivator. C. G. Strandlund. 1,731,509; Oct. 15.
- Cultivator. W. H. Thompson. 1,734,408; Nov. 5.
- Cultivator. J. M. Wiley. 1,700,525; Jan. 29.
- Cultivator arch. S. J. Ickler. 1,699,892; Jan. 22.
- Cultivator attachment. G. W. Wells. 1,698,286; Jan. 8.
- Cultivator attachment, Corn. W. T. Bird. 1,708,075; Apr. 9.
- Cultivator attachment, Tractor. W. S. Graham. 1,705,288; Mar. 12.
- Cultivator, Disk. R. H. Kipp. 1,721,697; July 23.
- Cultivator gang coupling. C. J. Allen and J. M. Bowen. 1,706,204; Mar. 19.
- Cultivator, Lister. A. D. Gallagher. 1,735,568; Nov. 12.
- Cultivator rake. W. H. Litzenger. 1,723,486; Aug. 6.
- Cultivator sand box. C. G. Strandlund. 1,715,394; June 4.
- Cultivator shovel, Detachable. R. H. Kipp. 1,740,739; Dec. 24.
- Cultivator tooth. H. J. Noll. 1,733,358; Oct. 29.
- Cultivator, Wheeled. A. C. Koritz. 1,701,572; Feb. 12.
- Cultivators, Attachment for. R. Marti. 1,701,414; Feb. 5.
- Cultivators, Attachment for. H. O. Remington. 1,707,416; Apr. 2.
- Cultivators, Controlling attachment for. V. Johnson. 1,724,203; Aug. 13.
- Cultivators, Cotton-chopper attachment for. B. F. Newsum. 1,701,893; Feb. 12.
- Cultivators, Hobble for. H. W. Lovett. 1,731,631; Oct. 15.
- Cultivators, Plant lifter for. C. O. Engman. 1,702,537; Feb. 19.
- Cultivators, Power lift for. E. H. Adams and J. I. Mitchell. 1,701,742; Feb. 12.
- Cultivators, Shield for two-row corn. E. J. Sokol. 1,709,099; Apr. 16.
- Cultivators, Trash-clearer attachment for. W. J. Smith. 1,731,356; Oct. 15.
- Culvert, Sectional cast-iron. W. S. Hotchkiss. 1,730,612; Oct. 8.
- Cup: See—
- Diet cup. Paper cup.
- Drinking cup. Paper drinking cup.
- Egg-boiling cup. Priming cup.
- Fluid-containing cup. Shaving cup.
- Golf cup. Soap cup.
- Grease cup. Sponge cup.
- Lubricant-expelling cup. Teat cup.
- Measuring cup. Vacuum cup.
- Oil cup. Whistle cup.
- Cup. W. L. Bacher. Des. 77,725; Feb. 19.
- Cup. C. Barbieri. 1,714,121; May 21.
- Cup. O. Bergner. Des. 78,256; Apr. 16.
- Cup. C. March. 1,700,065; Jan. 22.
- Cup. F. H. Rhead. Des. 79,102; July 30.
- Cup and cup-dispenser shipping package, Paper. H. Moore. 1,706,248; Mar. 19.
- Cup and making same, Paper. P. R. Simmons. 1,713,720; May 21.
- Cup attachment for spigots, Drip. C. G. Marhoff. 1,702,975; Feb. 19.
- Cup blank. H. Carle. 1,713,519; May 21.
- Cup dispenser. C. Barbieri. 1,716,753; June 11.
- Cup dispenser. H. Moore. 1,741,474; Dec. 31.
- Cup-dispensing machine. J. D. Reifsnnyder. 1,703,637; Feb. 26.
- Cup for milking machines, Teat. C. H. Hapgood. 1,701,072; Feb. 5.
- Cup holding and dispensing device. W. A. Ringler. 1,702,573; Feb. 19.
- Cup or similar article. F. Schmidt. Des. 79,265; Aug. 20.
- Cup or the like. C. Weiss. Des. 78,240; Apr. 9.



- Cup vase and spray holder. W. H. Carnoe. 1,722,197; July 23.
- Cupboard, bookcase, or the like. J. Loeb. 1,730,154; Oct. 1.
- Cupboard catch. B. E. Bartholomew. 1,705,706; Mar. 19.
- Cupola, Hot-blast. C. D. Barr. 1,738,277; Dec. 3.
- Cupola, Hot-blast. C. D. Barr and W. D. Moore. 1,740,886; Dec. 24.
- Cupola, Hot-blast. W. D. Moore. 1,740,900; Dec. 24.
- Cupola furnace. F. A. Stevenson. 1,733,138-41; Oct. 29.
- Cups and the like, Antisplash device for drinking. D. E. Austin. 1,739,627; Dec. 17.
- Curative-ray generator. L. G. Schwanzel and O. A. Knisely. 1,735,215; Nov. 12.
- Curb without mouthpiece. O. Clemens. 1,734,156; Nov. 5.
- Curing friction material. E. R. Ross. 1,721,135; July 16.
- Curing ingrown toenails, Device for. E. V. Andersen. 1,708,716; Apr. 9.
- Curl-retaining cap, Flexible. R. Burke. 1,725,251; Aug. 20.
- Curler, Byelash. C. W. Stickel and W. E. McDonell. 1,699,084; Jan. 15.
- Curler and end trainer, Coil-clamp. F. D. Zeppenfeld. 1,731,994; Oct. 15.
- Curler for permanent waving of hair. B. F. Jancke. 1,717,691; June 18.
- Curler or crimper, Hair. P. Horacek. 1,705,448; Mar. 12.
- Curler, Permanent-waving hair. W. S. Lewis. 1,742,177; Dec. 31.
- Curling hair, Method of and apparatus for. P. E. Well. 1,723,754; Aug. 6.
- Curling iron. J. E. and V. M. Riley. 1,720,378; July 9.
- Curling iron. I. O. Stout. 1,698,741; Jan. 15.
- Curling iron. L. Tronc. 1,725,229; Aug. 20.
- Curling iron. F. E. Wolcott. 1,696,932; Jan. 1.
- Curling-iron attachment. J. H. Jacobs. 1,737,765; Dec. 3.
- Curling iron, Electrically-heated. E. T. Meek. 1,696,919; Jan. 1.
- Curling iron, Steam. J. C. Murray. 1,738,916; Dec. 10.
- Curling machine, Hair-. G. W. Mudd. 1,719,899; July 9.
- Curling pad. J. Cecelio. 1,701,459; Feb. 5.
- Current and voltage in transformers, Regulating secondary. G. A. Thornton and W. Remington. 1,714,962; May 28.
- Current-carrying device, Unidirectional-. D. G. Ackerly. 1,715,691; June 4.
- Current-carrying device, Unidirectional-. L. O. Grondahl. 1,704,679; Mar. 5.
- Current-collecting device. R. B. Williamson. 1,706,369; Mar. 19.
- Current collector. H. P. Chandler. 1,706,652-3; Mar. 26.
- Current collector. E. A. Larsson. 1,706,618; Mar. 26.
- Current collector. E. A. Larsson. 1,715,460; June 4.
- Current collector. E. A. Larsson. 1,742,086; Dec. 31.
- Current collector for electric vehicles, Sliding. J. F. de Tovaros. 1,723,139; Aug. 6.
- Current commutating machine, Alternating-. J. Kozisek. 1,731,425; Oct. 15.
- Current-control apparatus. P. M. Nagy. 1,697,401; Jan. 1.
- Current control, Electric-. E. B. Thurston. 1,709,924; Apr. 23.
- Current-controlling and static-reducing system. C. A. Sprague. 1,711,658; May 7.
- Current-controlling device. R. P. Jutson. 1,719,474; July 2.
- Current-controlling means, Automatic electric-. P. V. McCash. 1,725,928; Aug. 27.
- Current-controlling mechanism for automobile signals. A. Hudson. 1,714,672; May 28.
- Current-controlling system. P. Husta. 1,738,247; Dec. 3.
- Current converter, Alternating-. N. M. Hopkins. 1,716,777; June 11.
- Current device, Space. D. Ulrey and C. Kirwer. 1,716,157; June 4.
- Current distributing and interrupting equipment, Ringing-. H. H. Harbecke. 1,701,073; Feb. 5.
- Current driving device, Alternating-. E. Zbinden. 1,739,885; Dec. 17.
- Current dynamo-electric machine, Alternating. H. Weichsel. 1,698,976; Jan. 15.
- Current electric system, Alternating-. W. Petersen. 1,731,906; Oct. 15.
- Current-equalizing device. E. W. Niles. 1,741,375; Dec. 31.
- Current-flow regulating means. M. J. Huggins. 1,727,344; Sept. 10.
- Current-generating apparatus for medical treatment, Induction. Y. Noishiki. 1,721,031; July 16.
- Current generators, Apparatus for controlling the output of alternating-. R. K. Potter. 1,731,264; Oct. 15.
- Current in battery chargers, Arrangement for prevention of reverse. K. Schmidt. 1,716,798; June 11.
- Current, Interrupter for electric. A. Rebori. 1,734,692; Nov. 5.
- Current limiter. H. Scheril. 1,700,240; Jan. 29.
- Current limiting and regulating apparatus. A. Guerra. 1,701,774; Feb. 12.
- Current measuring and indicating means, Electric-. M. J. Huggins. 1,738,651; Dec. 10.
- Current meter. C. H. Au. 1,704,162; Mar. 5.
- Current meter. C. L. Tice. 1,709,100; Apr. 16.
- Current motor. M. M. Brown. 1,707,795; Apr. 2.
- Current motor. S. B. McHenry. 1,726,405; Aug. 27.
- Current motor. A. F. Ruthven. 1,729,362; Sept. 24.
- Current motor, Alternating-. K. Landsmann. 1,729,618; Oct. 1.
- Current motor, Alternating-. W. H. Petersén. 1,731,394; Oct. 15.
- Current motor, Alternating-. H. Weichsel. 1,712,237; May 7.
- Current motor, Compressed alternating-. F. Kade. 1,712,669; May 14.
- Current, Production of pulsating. C. G. Smith. 1,713,356; May 14.
- Current, Rectification of polyphase electrical. J. Jonas. 1,728,288; Sept. 17.
- Current rectifier. J. F. Cavanagh. 1,729,326; Sept. 24.
- Current rectifier. E. Friederich and W. Meyer. 1,741,291; Dec. 31.
- Current rectifier, Alternating-. H. N. Miller and E. W. Engle. 1,717,517; June 18.
- Current rectifier and voltage regulator and circuits therefor. T. E. Foulke. 1,701,751; Feb. 12.
- Current, Rectifying alternating. G. B. Crouse. 1,704,791; Mar. 12.
- Current-rectifying apparatus, Electric. L. H. Peter. 1,712,677; May 14.
- Current-rectifying device. W. O. Snelling. 1,711,974; May 7.
- Current-rectifying systems, Protective means for. B. F. Steiger, W. A. Heppner, and F. A. Holt. 1,699,455; Jan. 15.
- Current-regulating transformer, Direct-electric-. A. Della Riccia. 1,697,661; Jan. 1.
- Current regulator. O. Kook. 1,715,458; June 4.
- Current regulator, Electric-. J. M. Boykow. 1,721,853; July 23.
- Current regulator for electric lamps. C. L. Weichelt. 1,720,501; July 9.
- Current repeater, Ringing-. J. I. Bellamy. 1,699,774; Jan. 22.
- Current-supply system, Direct-. H. O. Siegmund. 1,725,377; Aug. 20.
- Current system, Carrier-. W. R. G. Baker. 1,741,218; Dec. 31.
- Current system, Direct-. G. Somajni. 1,739,562; Dec. 17.
- Current tap. T. A. Both. Des. 77,735-6; Feb. 19.
- Current tap for installation on electric supply cords. G. J. Mener. 1,698,820; Jan. 15.
- Current transformer. E. M. Clayton and H. E. Cobb. 1,736,994; Nov. 26.
- Current transformer. E. Paffner. 1,731,865; Oct. 15.
- Current transformer. M. S. Wilson. 1,722,167; July 23.
- Current transformer, Constant-. J. B. Gibbs. 1,709,786; Apr. 16.
- Current transformer for high-voltage bushings. A. O. Austin. 1,723,170; Sept. 17.
- Current-transmission apparatus for printing telegraph and other systems. G. S. Hiltz and W. F. Purcell. 1,707,522; Apr. 2.
- Current-transmission apparatus for printing-telegraph and other systems. G. S. Hiltz and W. F. Purcell. 1,711,497; May 7.
- Current wave-changing device, Electrical-. P. D. Flehr. 1,731,616; Oct. 15.
- Currents, Controlling electric. E. E. Littlefield. 1,717,791; June 18.
- Currents in audion amplifiers, Reducing retroactive. S. Ballantine. 1,724,819; Aug. 13.
- Currents, Production of single and multi-phase alternating. S. A. Kukel. 1,703,242; Feb. 26.
- Currycomb. W. May. 1,715,937; June 4.
- Curtain. E. Neumaler. Des. 77,368-9; Jan. 1.
- Curtain and drapery, Combined. J. Aizenman. 1,707,934; Apr. 2.
- Curtain and portière rod. J. H. Boye. Des. 78,081-6; Mar. 26.
- Curtain and portière rod. J. H. Boye. Des. 78,833; Apr. 23.
- Curtain and shade-roller supporter. K. F. Mandl and J. Windisch. 1,732,101; Oct. 15.
- Curtain attachment. F. S. Hoover. 1,697,978; Jan. 8.
- Curtain, awning, and shade, Combined. G. W. Bernauer. 1,737,212; Nov. 26.
- Curtain bracket. L. Sykes. 1,699,999; Jan. 22.
- Curtain controller. F. Wasserbach. 1,726,008; Aug. 27.
- Curtain, Fire-resisting. W. M. Brunst and R. H. Gregor. 1,709,305; Apr. 16.
- Curtain, Fire-resisting. E. H. McCloud and A. Rush. 1,709,271; Apr. 16.
- Curtain, Foldable. C. H. Nordell. 1,698,996; Jan. 15.
- Curtain for locomotives, Side. H. A. Hoke. 1,727,062; Sept. 3.
- Curtain for motor vehicles, Antitheft. H. S. Riehl. 1,731,439; Oct. 15.
- Curtain for refrigerator car doors. J. C. Clamp. 1,726,887; Sept. 3.
- Curtain hanger. A. L. Hatcher. 1,733,060; Oct. 22.
- Curtain holdback. I. E. Newman. 1,719,380; July 2.
- Curtain hook. C. H. Holmström. 1,698,796; Jan. 15.
- Curtain hook, Swivel-. H. H. Schroyer. 1,727,909; Sept. 10.
- Curtain mounting and adjusting means, Skylight-. W. C. Nicholas. 1,728,074; Sept. 10.
- Curtain-operating device for automobiles, Window-. F. A. Reardon. 1,697,087; Jan. 1.
- Curtain pole, curtain-rod bracket, and suspending means, Combination. B. G. Norberg. Des. 80,184; Dec. 24.
- Curtain-pole end. G. Madvig. Des. 77,363; Jan. 1.



- Curtain ring, Shower-. L. and M. Auster. 1,739,382; Dec. 10.
- Curtain rod. J. M. Crucet. 1,719,924; July 9.
- Curtain rod. S. E. Maves. Des. 78,771; June 18.
- Curtain-rod bracket. J. N. Henry. 1,713,531; May 21.
- Curtain rod or similar article. J. H. Boye. Des. 78,963; July 16.
- Curtain rod or similar article. J. H. Boye. Des. 79,125; Aug. 6.
- Curtain rod or similar article. J. H. Boye. Des. 79,697-9; Oct. 29.
- Curtain rod or similar article. J. H. Boye. Des. 80,016; Dec. 3.
- Curtain rod or similar article. J. H. Boye. Des. 80,018; Dec. 3.
- Curtain rod, Telescopic. J. H. Boye. 1,699,276; Jan. 15.
- Curtain roller. G. Garcia. 1,736,527; Nov. 19.
- Curtain roller. H. H. Schroyer. 1,726,720; Sept. 3.
- Curtain roller. H. W. Shonnard. 1,729,133; Sept. 24.
- Curtain roller. H. G. Specht. 1,727,489; Sept. 10.
- Curtain shoe. H. U. Morton. 1,718,479; June 25.
- Curtain, Stormproof roller. C. H. Meader. 1,738,442; Dec. 3.
- Curtains and similar draperies, Suspending. R. Bigland. 1,732,299; Oct. 22.
- Curtains, Device for porch. N. M. Faulds. 1,734,800; Nov. 5.
- Curves as stationary, Device for indicating oscillograph. F. Bedoll. 1,707,594; Apr. 2.
- Cushion: See—
- Air cushion. Resilient cushion.
- Back cushion. Seat cushion.
- Crutch cushion. Spring cushion.
- Cushion. L. Scovell. Des. 79,576; Oct. 8.
- Cushion cap for tools. J. B. Crofoot. 1,713,819-20; May 21.
- Cushion connection for vehicle construction. A. J. Jansson. 1,704,834; Mar. 12.
- Cushion connection for vehicle construction. F. L. Lipcot. 1,714,130; May 21.
- Cushion construction. F. Kaspar. 1,719,553; July 2.
- Cushion construction. F. Kaspar. 1,741,847; Dec. 31.
- Cushion construction. P. Rissmann. 1,725,479; Aug. 20.
- Cushion device for tools and the like. H. L. Moore. 1,710,180; Apr. 23.
- Cushion-filling machine. M. H. Lang. 1,724,030; Aug. 13.
- Cushion for gauges, Protective. G. E. Farley. 1,713,824; May 21.
- Cushion for metal presses, Hydraulic. F. J. Rode. 1,706,073; Mar. 19.
- Cushion for metal presses, Hydraulic. F. J. Rode. 1,718,435; June 25.
- Cushion device for office furniture. W. H. Hardy. 1,738,295; Dec. 3.
- Cushion for sheet-metal presses. F. J. Rode. 1,706,074; Mar. 19.
- Cushion for sheet-metal presses, Hydraulic. F. J. Rode. 1,697,611; Jan. 1.
- Cushion for shoe heels. E. N. Haag. 1,724,349; Aug. 13.
- Cushion for sprinkler heads. F. H. Johnson. 1,717,709; June 18.
- Cushion frame. P. Rissmann. 1,725,480; Aug. 20.
- Cushion mounting for truck tanks. A. A. Kramer. 1,727,609; Sept. 10.
- Cushion seat. A. W. Parker. 1,706,585; Mar. 26.
- Cushion, Spring. W. W. Doty. 1,737,112; Nov. 26.
- Cushion structure and manufacture. K. Karpen. 1,720,480; July 9.
- Cushion-stuffing machine. L. H. Lowery and J. Kramer. 1,740,865; Dec. 24.
- Cushion-stuffing machine. J. O. Taylor and H. Doyle. 1,708,341; Apr. 9.
- Cushion wheel. G. A. Gillen. 1,715,751; June 4.
- Cushion wheel. G. Leach. 1,733,081; Oct. 22.
- Cushioned flat for cellular fillers. L. Oxhandler. 1,701,632; Feb. 12.
- Cushioning and shock-absorbing device. E. W. Williams. 1,712,014; May 7.
- Cushioning device, Hydraulic. H. E. Balsiger. 1,697,748; Jan. 1.
- Cushioning device, Spring-. A. J. Hersey. 1,725,189; Aug. 20.
- Cushioning or shock-absorbing device, Vehicle. W. C. Broadwell. 1,710,809; Apr. 30.
- Cushioning wear plate for buffer stems. G. Q. Lewis. 1,716,859; June 11.
- Cuspidor. W. A. Lange and A. Seblon. 1,726,271; Aug. 27.
- Cuspidor. L. E. Ruf. 1,737,059; Nov. 26.
- Cuspidor, Automobile. F. V. Lavery. 1,733,995; Oct. 29.
- Cuspidor for vehicles. J. P. Thériault. 1,723,900; Aug. 6.
- Cuspidor for vehicles. C. B. Williams. 1,698,978; Jan. 15.
- Cuspidor, Sanitary combined. S. Ackerman. 1,698,382; Jan. 8.
- Cut-film case. S. Cocanari. 1,700,583; Jan. 29.
- Cut-off, Automatic. G. W. Franzheim. 1,727,503; Sept. 10.
- Cut-off device, Automatic. J. C. Abel. 1,724,389; Aug. 13.
- Cut-off device for bath fixtures. L. Bloch. 1,714,758; May 28.
- Cut-off for gas burners, Pilot. R. F. Boger. 1,711,443; Apr. 30.
- Cut-off for gas burners, Pilot. J. A. Spencer. 1,711,430; Apr. 30.
- Cut-off for hot-water boilers, Thermostatic gas. P. D. Fowler. 1,733,340; Oct. 29.
- Cut-off for pressure lines of hydraulic brakes, Safety. E. H. Lund. 1,724,881; Aug. 13.
- Cut-off mechanism for metal-working machines. R. H. Smith. 1,731,355; Oct. 15.
- Cut-out and the like, High-tension. A. S. Pearl. 1,732,857; Oct. 22.
- Cut-out lock, Emergency. C. N. Fairchild. 1,699,183; Jan. 15.
- Cut-out, Primary. N. J. Conrad. Re17,214; Feb. 12.
- Cut-out, Series. P. F. Williams. 1,696,931; Jan. 1.
- Cut-outs, Producing. H. J. Hanauer. 1,712,269; May 7.
- Cutter: See—
- Asparagus cutter. Milling cutter.
- Bean cutter. Newspaper-clipping cutter.
- Bias cutter. Pie cutter.
- Blade cutter. Pipe cutter.
- Block cutter. Potato cutter.
- Bolt and wire cutter. Refuse cutter.
- Bolt cutter. Ridge cutter.
- Brush cutter. Ring-joint cutter.
- Butter cutter. Rotary cutter.
- Cane cutter. Sand cutter.
- Casing cutter. Seed cutter.
- Channel cutter. Slab cutter.
- Cheese cutter. Slitter cutter.
- Cigar cutter. Sod cutter.
- Cloth cutter. Soil cutter.
- Dough cutter. Stalk cutter.
- Ensilage cutter. Strand cutter.
- Food cutter. Thread cutter.
- Fabric cutter. Trimming cutter.
- Fast-speed cutter. Turf cutter.
- Gasket cutter. Twine cutter.
- Glass cutter. Valve-seat cutter.
- Grain cutter. Vegetable cutter.
- Grass cutter. Vine cutter.
- Groove cutter. Weed cutter.
- Hair cutter. Wire cutter.
- Knob cutter.
- Cutter. C. J. Anderson. 1,735,310; Nov. 12.
- Cutter. C. J. Anderson. 1,735,594; Nov. 12.
- Cutter. E. N. Ericson. 1,733,657; Oct. 29.
- Cutter. G. W. Fleming. 1,737,580; Dec. 3.
- Cutter. E. N. Whitmire. 1,730,907; Oct. 8.
- Cutter and ballast shaper, Weed. A. J. Williams, H. Bruer, and J. Spence. 1,705,434; Mar. 12.
- Cutter and container, Package. F. T. Hammerle. 1,722,086; July 23.
- Cutter and loader, Corn. D. H. Grant. 1,708,295; Apr. 9.
- Cutter and mulch roller, Combined weed. J. W. Cole. 1,702,196; Feb. 12.
- Cutter and shocker, Corn. T. D. Thawley. 1,706,004; Mar. 19.
- Cutter and vise, Combination. T. H. Acres, jr. 1,727,225; Sept. 3.
- Cutter attachment, Stalk-. J. T. Moore and J. H. Hollingsworth. 1,709,679; Apr. 16.
- Cutter attachment for electric motors, Sheet-metal. A. Hexdall. 1,737,884; Dec. 3.
- Cutter attachment for paper-tape machines. J. Olsen. 1,734,643; Nov. 5.
- Cutter bar for harvesters. F. W. Hoffmeister. 1,701,755; Feb. 12.
- Cutter bar, Lawn-mower. C. Kachel. 1,724,879; Aug. 13.
- Cutter block for woodworking and like machines, High-speed. R. Hollis. 1,705,251; Mar. 12.
- Cutter clamp. E. R. Kast. 1,729,582; Sept. 24.
- Cutter for bark-removing machines and the like. K. R. J. Lagus. 1,728,570; Sept. 17.
- Cutter for helical or spiral and straight bevel gears, Milling. W. H. Wheatley. 1,707,105; Mar. 26.
- Cutter for paper-bag tubes. L. H. Hartman. 1,739,394; Dec. 10.
- Cutter for turning polygonal work. F. Deutsch. 1,698,538; Jan. 8.
- Cutter head. F. L. Lane. 1,722,303; July 30.
- Cutter head. L. T. Medholdt. 1,712,087; May 7.
- Cutter head. T. A. Peterson. 1,705,994; Mar. 19.
- Cutter head. A. Schupp. 1,716,192; June 4.
- Cutter head. C. Wolf. 1,713,066; May 14.
- Cutter head, Rotary. E. Stein. 1,722,022; July 23.
- Cutter mechanism. W. R. Barrett. 1,732,148; Oct. 15.
- Cutter mold. Sandwich-bread slice-. M. F. Desmond. 1,741,682; Dec. 31.
- Cutter plates, Forming. C. A. Laemmel. 1,724,717; Aug. 13.
- Cutter reamer, Renewable. H. E. Brown. 1,708,932; Apr. 16.
- Cutters and threaders, Control mechanism for pipe. G. M. Causey and M. B. Miller. 1,702,336; Feb. 19.
- Cutters, Forming. R. O. Catland. 1,709,606; Apr. 16.
- Cutters, Method of and machine for relieving. J. Edgar. 1,731,481; Oct. 15.
- Cutters, Method of and machine for relieving. J. Edgar. 1,741,759; Dec. 31.
- Cutting and apparatus therefor. G. R. Napier. 1,738,918; Dec. 10.
- Cutting and cleaning machine, Fish. A. L. Christiansen and W. S. La Londe. 1,699,951; Jan. 22.
- Cutting and delivering ice cream and like plastic materials, Machine for. J. E. Malone. 1,706,534; Mar. 26.



- Cutting and embossing machine, Biscuit. T. L. Green. 1,708,089; Apr. 9.
- Cutting and feeding mechanism, Web. W. H. Cannard. 1,738,354; Dec. 3.
- Cutting and folding machine. C. J. Beck. 1,715,271; May 28.
- Cutting and handling machine, Sheet. H. M. Barber. 1,724,899; Aug. 20.
- Cutting and measuring apparatus for sheet glass. C. A. Rowley. 1,710,898; Apr. 30.
- Cutting and measuring device for suction dredges. M. R. Thurston. 1,701,430; Feb. 5.
- Cutting and panskip machine. H. H. Hungerford. 1,707,477; Apr. 2.
- Cutting and stripping machine, Wire. D. D. Cross. 1,733,294; Oct. 29.
- Cutting and thrashing machine, Separable. T. Dugan. 1,700,286; Jan. 29.
- Cutting and winding bias strips, Method and apparatus for simultaneously. T. Midgley. 1,714,799; May 28.
- Cutting and winding machine, Roll. E. Jagenberg. 1,741,520; Dec. 31.
- Cutting apparatus. E. D. Loewenthal. 1,719,229; July 2.
- Cutting apparatus, Blowpipe for. M. Claude. 1,728,104; Sept. 10.
- Cutting apparatus, Die-. R. H. Stone. 1,699,720; Jan. 22.
- Cutting apparatus, Glass-. J. H. Moller. 1,731,257; Oct. 15.
- Cutting associating, and folding sheets, Mechanism and method for. H. D. Bell. 1,720,529; July 9.
- Cutting bevel gears. E. Wildhaber. 1,696,930; Jan. 1.
- Cutting channels in parts of footwear, Apparatus for. E. F. H. Enna. 1,737,577; Dec. 3.
- Cutting designs on glass. P. H. James and H. C. Woodsmall. 1,727,318; Sept. 3.
- Cutting device. G. Dickson. 1,719,599; July 2.
- Cutting device. E. Mayer. 1,732,564; Oct. 22.
- Cutting device. F. B. Pedersen. 1,715,210; May 28.
- Cutting device, Automatic. M. Castricum and P. L. Butterfield. 1,730,560; Oct. 8.
- Cutting device, Caoutchouc-. F. Kempter. 1,730,821; Oct. 8.
- Cutting device for sheet fabrics. W. H. Gerstenslager. 1,724,348; Aug. 13.
- Cutting device for thimbles, Thread. M. Feer. 1,705,007; Mar. 12.
- Cutting device for wire cloth. C. M. McCarthy. 1,708,585; Apr. 9.
- Cutting die. R. V. Woodworth. 1,733,638; Oct. 29.
- Cutting dies. R. H. Stone. 1,699,721; Jan. 22.
- Cutting foodstuffs, Apparatus for. H. L. Johnston. 1,709,912; Apr. 23.
- Cutting gauge. S. W. Sims. 1,735,216; Nov. 12.
- Cutting gears, Method of and machine for. W. H. Snow. 1,725,379; Aug. 20.
- Cutting glass, Device for. J. Burda. 1,697,044; Jan. 1.
- Cutting grass in connection with paper making, Apparatus for. S. Milne. 1,706,935; Mar. 26.
- Cutting head for suction dredgers. P. van Wiene. 1,730,958; Oct. 8.
- Cutting holes in insulators, Device for. M. F. H. Gouverneur. 1,697,422; Jan. 1.
- Cutting holes in insulators, Method of and device for. M. F. H. Gouverneur. 1,697,423; Jan. 1.
- Cutting implement. A. Grünig. 1,708,016; Apr. 9.
- Cutting instrument. S. Singer. 1,726,863; Sept. 3.
- Cutting keystone-shaped slots. C. J. Coberly. 1,701,145; Feb. 5.
- Cutting laminated glass. S. J. Lewis. 1,731,820; Oct. 15.
- Cutting lengths from a continuously-fed bundle of artificial threads, filaments, and the like, Method of and apparatus for. A. Beria. 1,723,998; Aug. 13.
- Cutting logs. J. L. Dougherty. 1,732,743; Oct. 22.
- Cutting machine. H. A. Ballard. 1,709,336; Apr. 16.
- Cutting machine. B. F. Berry. 1,710,084; Apr. 23.
- Cutting machine. H. W. Krag. 1,741,780; Dec. 31.
- Cutting machine. L. J. Lambert. 1,740,251; Dec. 17.
- Cutting machine. E. F. Maas. 1,728,163; Sept. 10.
- Cutting machine. W. Maier. 1,718,570; June 25.
- Cutting machine. A. W. Mueller. 1,722,476; July 30.
- Cutting machine. C. L. Smith. 1,726,369; Aug. 27.
- Cutting machine. J. M. Townsend. 1,736,143; Nov. 19.
- Cutting machine. J. Wegner. 1,732,704; Oct. 22.
- Cutting machine and the like, Coal-. W. C. Black. 1,730,755; Oct. 8.
- Cutting machine, Blank-. E. L. Patten. 1,701,082; Feb. 5.
- Cutting machine, Button-blank-. A. L. Currier. 1,736,901; Nov. 26.
- Cutting machine, Button-blank-. W. E. Knott. 1,700,412; Jan. 29.
- Cutting machine, Cam-. J. C. and R. D. Shaw. 1,719,813; July 2.
- Cutting machine, Cheese-. M. L. Ast. 1,741,753; Dec. 31.
- Cutting machine, Cloth-. F. J. Clark. 1,715,447; June 4.
- Cutting machine, Coal or rock. F. J. B. Berry. 1,728,914; Sept. 24.
- Cutting machine, Coil-. O. A. Pearson. 1,741,711; Dec. 31.
- Cutting machine, Ensilage and feed. H. L. Whitney and H. A. Lyon. 1,735,226; Nov. 12.
- Cutting machine, Field ensilage-. F. W. Pro. 1,727,616; Sept. 10.
- Cutting machine for the making of shingles. E. J. Whittaker. 1,710,392; Apr. 23.
- Cutting machine, Fruit-. E. R. Jagenburg. 1,729,269; Sept. 24.
- Cutting machine, Gear-. J. H. Barnes. 1,724,167; Aug. 13.
- Cutting Machine, Hole-. S. L. Moore, jr. 1,697,434-5; Jan. 1.
- Cutting machine, Keyway-. J. Hajos. 1,700,795; Feb. 5.
- Cutting machine, Meat-. H. N. and L. L. Lorenz. 1,732,521; Oct. 22.
- Cutting machine, Metal-. W. C. Bucknam. 1,701,661; Feb. 12.
- Cutting machine, Metal-. F. S. Jones. 1,697,067; Jan. 1.
- Cutting machine, Micrometric-screw-. M. Audibert. 1,735,666; Nov. 12.
- Cutting machine, Mold-bearer-. L. W. Claybourn. 1,704,311; Mar. 5.
- Cutting machine, Paper-. C. Seybold. 1,729,688; Oct. 1.
- Cutting machine, Sauerkraut-. H. Jung. 1,723,241; Aug. 6.
- Cutting machine, Sod-. J. C. Watson. 1,706,831; Mar. 26.
- Cutting machine used chiefly for cutting cheese. M. L. Ast. 1,704,682; Mar. 5.
- Cutting machine, Veneer-. E. J. Whittaker. 1,729,975; Oct. 1.
- Cutting machine, West-pile-. A. Roger. 1,710,788; Apr. 30.
- Cutting machinery, Bevel-gear. J. H. Barnes. 1,724,169; Aug. 13.
- Cutting machines, Base plate for. J. E. Janin. 1,730,509; Oct. 8.
- Cutting means. S. J. Campbell. 1,730,449; Oct. 8.
- Cutting mechanism. H. M. Ross. 1,723,660; Aug. 6.
- Cutting mechanism, Corn-binder. E. Tiedemann. 1,729,280; Sept. 24.
- Cutting mechanism, Thread-. J. M. Benjamin. 1,729,241; Sept. 24.
- Cutting metals by the aid of an electric current, Method and rotating disk for. O. F. A. E. Grumpelt. 1,701,919; Feb. 12.
- Cutting-off machine. M. J. Schlitters, jr. 1,721,671; July 23.
- Cutting-off mechanism for stripping machines, Adjustable. E. M. and F. M. Brackett. 1,724,068; Aug. 13.
- Cutting openings in deep-well casings, Apparatus for. G. H. C. van Keulen. 1,731,553; Oct. 15.
- Cutting or sawing carcasses of dead animals, Appliance for. E. Buchwald. 1,741,554; Dec. 31.
- Cutting or trimming device. F. M. Williams. 1,735,520; Nov. 12.
- Cutting out a rectifier when flashing-over occurs therein, Apparatus for selectively. E. Kern. 1,722,097; July 23.
- Cutting out plated work pieces, Device for. E. Wiglanda. 1,723,106; Aug. 6.
- Cutting pipe. J. Nelson. 1,727,406; Sept. 10.
- Cutting press. J. Sandt. 1,732,066; Oct. 15.
- Cutting roll, Grain. E. C. Andrews and M. Lindemann. 1,722,999; Aug. 6.
- Cutting rotatable dies for drawing machines. G. E. Barnhart. 1,705,893; Mar. 19.
- Cutting rules for dies, Shaping. C. P. Shaw. 1,701,547; Feb. 12.
- Cutting sheet rubber. J. R. Gammeter. 1,710,211; Apr. 23.
- Cutting textile fabrics, Apparatus for. W. Berry. 1,730,840; Oct. 8.
- Cutting various substances, Apparatus for. B. L. M. Bunting. 1,728,227; Sept. 17.
- Cyanamid, Producing. G. Barsky and P. W. Griffith. 1,741,674; Dec. 31.
- Cyanide from solutions, Recovering. L. D. Mills and T. B. Crowe. 1,701,818; Feb. 12.
- Cyanide pot. W. J. Merten. 1,707,313; Apr. 2.
- Cycle. A. E. Blomstrand. 1,723,966; Aug. 6.
- Cycle or like brake. J. V. Pugh and W. H. Whitmill. 1,706,542; Mar. 26.
- Cycles, Changeable-speed transmission-gear attachment for. W. A. Tolliver. 1,736,680; Nov. 19.
- Cyclohexyl compounds and making the same. R. Adams. 1,703,186; Feb. 26.
- Cyclopentyl compound and making same. R. Adams. 1,715,052; May 28.
- Cylinder and mount therefor, Pump. J. M. Sharp. 1,726,415; Aug. 27.
- Cylinder, Bin-gate-operating. E. W. Schellentrager. 1,731,271; Oct. 15.
- Cylinder-block assembly. M. Birkigt. 1,716,256; June 4.
- Cylinder, Brake. C. C. Farmer. 1,727,398; Sept. 10.
- Cylinder, Brake. J. H. Woods. 1,727,386; Sept. 10.
- Cylinder cock, Locomotive. A. R. Ayes. 1,704,817; Mar. 12.
- Cylinder cocks, Fluid-pressure control for. E. G. Gross. 1,707,264; Apr. 2.
- Cylinder, Commutator. F. H. Tupper. 1,736,988; Nov. 26.
- Cylinder construction, Engine-. A. J. West. 1,704,271; Mar. 5.
- Cylinder construction for air-cooled engines. R. Murphy. 1,721,870; July 23.
- Cylinder drill unit, Shiftable. R. M. Galloway and R. A. Schafer. 1,731,718; Oct. 15.
- Cylinder engine. M. Birkigt. 1,705,390; Mar. 12.
- Cylinder, Engine. J. Radloff. 1,742,097; Dec. 31.
- Cylinder, Film-zophering. P. Brosse. 1,703,026; Feb. 19.
- Cylinder for double-acting two-stroke Diesel engines with slotted exhaust opening and divided cylinder liner. H. Becker. 1,710,857; Apr. 30.



- Cylinder for green-pea viners, Beater. F. P. Ryder. 1,725,938; Aug. 27.
- Cylinder for internal-combustion engines. H. A. Palmer. 1,711,904; May 7.
- Cylinder for piston engines. R. Pawlikowski. 1,732,856; Oct. 22.
- Cylinder for printing presses, Folding. G. Rasmussen. 1,717,257; June 11.
- Cylinder-forming machine. J. F. L. Baker. 1,698,904; Jan. 15.
- Cylinder-grinding lap. O. C. Kayle. 1,722,301; July 30.
- Cylinder head. C. W. Cram. 1,715,225; May 28.
- Cylinder head. J. Johnson. 1,719,116; July 2.
- Cylinder head for internal-combustion engines, Detachable. A. E. Hodgson and N. C. Jones. 1,722,216; July 23.
- Cylinder heads, Making. G. D. Angle. 1,720,711; July 16.
- Cylinder, Ice-cream-freezing. E. Thompson. 1,710,648; Apr. 23.
- Cylinder. Internal-combustion-engine. G. Fornaca. 1,724,012; Aug. 13.
- Cylinder. Internal-combustion-engine. A. T. Kasley. 1,723,177; Aug. 6.
- Cylinder lock. J. Croning. Re1,7451; Oct. 8.
- Cylinder lock. S. Segal. 1,700,858; Feb. 5.
- Cylinder lock. S. Segal. 1,725,544; Aug. 20.
- Cylinder lubricator, Engine-. A. S. Hawks. 1,736,312; Nov. 19.
- Cylinder mold. A. S. Clark. 1,738,357; Dec. 3.
- Cylinder of an internal-combustion engine. T. Thornycroft. 1,708,856; Apr. 9.
- Cylinder of internal-combustion engines. H. R. Ricardo. 1,739,180; Dec. 10.
- Cylinders of reciprocating engines, compressors, pumps, etc., Lubricating. L. Wygodsky. 1,739,024; Dec. 10.
- Cylinder, Press. E. T. Meakin. 1,722,814; July 30.
- Cylinder, Thrashing. R. C. Ayers. 1,736,775; Nov. 26.
- Cylinders, Attaching Garnett teeth to. T. W. Allen. 1,700,621; Jan. 29.
- Cylinders, Grinding. C. A. Tompkins. 1,727,844; Sept. 10.
- Cylinders, Making. J. O. Almen. 1,721,197; July 16.
- Cylinders, Manufacture of glass. C. H. Harding. 1,736,005; Nov. 19.
- Cyanides, Manufacturing. H. Wiederhold. 1,727,261; Sept. 3.
- D. C. Railway system. U. Kloss. 1,722,582; July 30.
- D top. W. Withington. 1,727,496; Sept. 10.
- Dado-forming machine. J. E. Erickson. 1,708,609; Apr. 9.
- Dairy-product composition, Making. S. C. Nygood. 1,732,375; Oct. 22.
- Dam apparatus. N. F. Ambursen. 1,726,522; Sept. 3.
- Dam, Open-structure. E. Probst and F. Tölke. 1,736,939; Nov. 26.
- Dampening device for plate cylinders in offset-process printing machines. S. and S. A. Moe. 1,719,017; July 2.
- Dampening silk and like filaments for use on textile machines. H. J. Schwabe. 1,705,212; Mar. 12.
- Dampener, Vibration. J. B. Macauley, jr. 1,716,496; June 11.
- Damper. C. R. Anderson. 1,697,100; Jan. 1.
- Damper. E. H. Sholar. 1,725,484; Aug. 20.
- Damper. H. B. Smith. 1,734,450; Nov. 5.
- Damper construction. J. C. Orr. 1,738,196; Dec. 3.
- Damper control. F. H. Bryant. 1,735,034; Nov. 12.
- Damper control. C. H. Sparklin. 1,733,832; Oct. 29.
- Damper control for brooder stoves. R. C. Zimmerman. 1,724,061; Aug. 13.
- Damper control for heat units. C. E. Scott. 1,709,193; Apr. 16.
- Damper control for leers. C. Nagle. 1,697,996; Jan. 8.
- Damper control, Thermostatic furnace-. E. Verstraete. 1,708,980; Apr. 16.
- Damper device, Adjustable. A. C. Woodard. 1,699,338; Jan. 15.
- Damper, Fireplace. L. Jones, jr. 1,734,013; Oct. 29.
- Damper for internal-combustion engines, Vibration. J. G. Vincent. 1,701,596-7; Feb. 12.
- Damper for oil-burning stoves. J. M. Fennell and E. P. Greve. 1,706,959; Mar. 26.
- Damper for vehicle suspension springs, Rebound. E. Hack. 1,732,269; Oct. 22.
- Damper for ventilators. R. E. Miller. 1,722,590; July 30.
- Damper frame. L. Reaser. 1,721,089; July 16.
- Damper lock. W. Jamar. 1,716,444; June 11.
- Damper regulator. W. N. Ludwick. 1,720,522; July 9.
- Damper regulator for boilers. H. H. Wilson. 1,716,200; June 4.
- Damper, Vibration. R. L. Hawkins. 1,726,825-6; Sept. 3.
- Dampers, Control for draft. J. B. Johnson. 1,717,157; June 11.
- Damping means for indicators. A. W. Uhl. 1,711,003; Apr. 30.
- Damping motion. E. W. Kellogg. 1,723,864; Aug. 6.
- Damping system. W. M. Bradshaw. 1,734,199; Nov. 5.
- Damping torsional vibrations, Device for. E. Sandner. 1,715,953; June 4.
- Dancing apparatus. T. E. Arkin. 1,729,813; Oct. 1.
- Darning and weaving device. J. E. Baldry. 1,708,860; Apr. 9.
- Darning attachment for sewing machines. C. M. Prange. 1,706,819; Mar. 26.
- Darts or gores in articles of wearing apparel, Making. P. Reichardt. 1,721,575; July 23.
- Dasher, Churn. J. E. Sumrall. 1,739,427; Dec. 10.
- Dasher, Laundry air. L. M. Stalker. 1,734,354; Nov. 5.
- Dashpot for calculating machines. E. J. Pospeshil. 1,719,308; July 2.
- Dashpot, Liquid. J. W. Taylor. 1,740,794; Dec. 24.
- Dashpot, Safety. O. G. Lissen. 1,714,431; May 21.
- Data capable of representation in the form of triangles, Apparatus for the solution by optical means of. J. W. French. 1,725,070; Aug. 20.
- Data computer. W. P. Wilson. 1,735,028; Nov. 12.
- Dauber pad for liquid-polish applicator. W. A. Clark. 1,707,386; Apr. 2.
- Davenport. J. Gombar. 1,741,153; Dec. 31.
- Davenport, Bed. O. Stoltenberg. 1,721,647; July 23.
- Davenport, Porch. N. Y. Stockwell. 1,729,194; Sept. 24.
- Deactivator. P. West. 1,723,105; Aug. 6.
- Deadlock for jail doors. J. T. Whitehouse. 1,714,150; May 21.
- Decalcomania. S. B. Gorham. 1,714,503; May 28.
- Decarbonizer for automobile engines. W. Pauly. 1,722,442; July 30.
- Decelerometer, Registering. J. T. Friedli. 1,725,958; Aug. 27.
- Deck and ladder thereof, Floating. A. M. Griffin. 1,736,825; Nov. 26.
- Deck and swing pipe therefor, Floating. A. M. Griffin. 1,734,622; Nov. 5.
- Deck for cooling towers. J. P. Barry. 1,741,495; Dec. 31.
- Deck for reservoirs, Floating. A. M. Griffin. 1,734,623; Nov. 5.
- Decking apparatus for automobile bodies. C. L. Snyder. 1,735,800; Nov. 12.
- Decking device. G. C. Conn. 1,734,006; Oct. 29.
- Decking machine. J. N. Fountain. 1,703,141; Feb. 26.
- Decking mechanism for paper-making machines. E. A. Peterson and C. E. Everson. 1,712,632; May 14.
- Decomposition of complex hydrofluoric salts. M. Buchner. 1,730,915; Oct. 8.
- Deconcentrator. C. T. McGill. 1,704,989; Mar. 12.
- Decorating celluloid. J. S. Motter. 1,702,663; Feb. 19.
- Decorating fabric and product. S. J. Saffern. 1,701,197; Feb. 5.
- Decorating flexible material. C. A. Hanington. 1,741,770; Dec. 31.
- Decorating floor coverings. C. O. Karpf. 1,735,765; Nov. 12.
- Decorating glass surfaces, Apparatus for. K. Wurga. 1,705,512; Mar. 19.
- Decorating mirrors, Apparatus for. C. R. Laugel. 1,719,554; July 2.
- Decoration for women's slippers, Heel. S. M. Riker. Des. 79,239; Aug. 20.
- Decorations, Device for forming multicolored, braidlike. J. A. Ost. 1,709,280; Apr. 16.
- Decorative device. M. Propp. 1,726,585; Sept. 3.
- Decorative effects, Producing. C. L. Burdick. 1,728,100; Sept. 10.
- Decorative fabric. J. R. Freedman. 1,715,126; May 28.
- Decorative surfaces, Producing. L. P. Dickey. 1,741,683; Dec. 31.
- Decolorizing and refining crude cottonseed oil. W. S. Baylis. 1,725,895; Aug. 27.
- Decolorizing hydrocarbon oils. F. Gardner. 1,732,465; Oct. 22.
- Decorticating machine. C. C. Palmerston. 1,738,922; Dec. 10.
- Decorticating machine. W. H. Richardson. 1,739,611; Dec. 17.
- Decorticating machines and process of decorticating, Rasp-drum for. W. B. Simmons. 1,741,543; Dec. 31.
- Decoy. F. L. Hudson. 1,708,762; Apr. 9.
- Decoy. W. H. Kempf. 1,697,465; Jan. 1.
- Decoy. R. L. Scott. 1,732,316; Oct. 22.
- Decoy. H. E. Sherman. 1,718,384; June 25.
- Defects in the static and dynamic balances of rotating bodies, Device for determining. R. Biquard. 1,740,762; Dec. 24.
- Deflating machine, Tube-. R. S. Kirk. 1,706,615; Mar. 26.
- Deflating tire tubes. A. G. Smith. 1,706,679; Mar. 26.
- Deflector. J. A. Plimpton. 1,700,687; Jan. 29.
- Deflector for headlights, Light. T. E. Aud. 1,708,561; Apr. 9.
- Deflector for rubber calenders, Gum-stock. J. H. Davidson. 1,699,282; Jan. 15.
- Deflector for tractors, Exhaust. R. Barries. 1,738,279; Dec. 3.
- Deflector for ventilating apparatus. T. H. Alfreds. 1,708,250; Apr. 9.
- Deflector for ventilating systems. I. C. Sternberg. 1,708,243; Apr. 9.
- Deflector, Paper. R. S. Dalton. 1,706,843; Mar. 26.
- Degasifying liquids, Method and apparatus for. W. S. Elliott. 1,734,515; Nov. 5.
- Degreasing of raw wool and other textile fibers. A. Engelhardt. 1,718,548; June 25.
- Degumming. G. H. Ellis. 1,709,662; Apr. 16.
- Dehydrating apparatus. M. E. Bussler. 1,704,912; Mar. 12.
- Dehydrating apparatus. H. S. MacKaye. 1,701,813; Feb. 12.
- Dehydrating attachment for flash testers. S. E. Calvin. 1,714,765; May 28.
- Dehydrating caustic. J. F. Wait. 1,734,699; Nov. 5.
- Dehydrating flaked agar or the like. J. Becker. 1,703,654; Feb. 26.
- Dehydrating oils, fats, etc. C. V. Zoul. 1,701,092; Feb. 5.



- Dehydrating substance. H. Isobe. 1,740,351; Dec. 17.  
Dehydrating vegetable substances of organic character. B. J. Owen. 1,713,619; May 21.  
Dehydrating viscose products, Apparatus for. S. A. Neidich. 1,717,118; June 11.  
Dehydrator. F. C. Chapman. 1,737,533; Nov. 26.  
Dehydrator. V. L. Gibson. 1,727,504; Sept. 10.  
Dehydrator. E. L. Younger. 1,718,845; June 25.  
Dehydrator. E. L. Younger. 1,738,550; Dec. 10.  
Dehydrator apparatus. J. M. Younger. 1,737,068; Nov. 26.  
Dehydrator for petroleum emulsions. J. H. C. de Brey. 1,704,463; Mar. 5.  
Dehydrogenation products, Recovery of. M. Luther and K. Pierch. 1,723,458; Aug. 6.  
Deinking apparatus. J. De Witt. 1,705,908; Mar. 19.  
Deinking fibrous material. J. De Witt. 1,705,907; Mar. 19.  
Deinking paper. H. C. Fisher. 1,707,604; Apr. 2.  
Deinking solution. W. Lewis. 1,727,722; Sept. 10.  
Delinting cottonseed hulls. C. L. Bothwell, and K. C. and K. C. Barton. 1,725,389; Aug. 20.  
Delinting machine, Cottonseed-. D. Taylor. 1,728,018; Sept. 10.  
Delivering apparatus, Calif. J. Drost. 1,732,002; Oct. 15.  
Delivering material into receptacles, Apparatus for. J. G. Jackson. 1,697,831; Jan. 1.  
Delivering measured quantities of water from reservoirs, Apparatus for. C. P. Griffith. 1,731,568; Oct. 15.  
Delivering predetermined quantities of liquid, Apparatus with siphon mechanism for. P. Kajanoff. 1,737,501; Nov. 26.  
Delivering preheated air to combustion chambers. G. Van Daam. 1,717,421; June 18.  
Delivering preheated air to combustion chambers. G. Van Daam. 1,734,545; Nov. 5.  
Delivering viscous glass, Method and apparatus for. O. M. Tucker and W. A. Reeves. 1,708,037; Apr. 9.  
Delivering viscous glass, Method and apparatus for. O. M. Tucker and W. A. Reeves. 1,708,069; Apr. 9.  
Delivery apparatus. A. M. Lee. 1,703,773; Feb. 26.  
Delivery apparatus, Automatic. U. Gabutti. 1,702,157; Feb. 12.  
Delivery apparatus for feeding mechanism. B. F. Berry. 1,711,827; May 7.  
Delivery apparatus for pneumatic-dispatch systems. W. H. Dinspel. 1,729,999; Oct. 1.  
Delivery apparatus, Liquid-. G. A. N. Woodcock. 1,726,094; Aug. 27.  
Delivery apparatus, Store-. C. W. Butler. 1,703,987; Mar. 5.  
Delivery device. P. G. Robinson, T. Sargent, and G. W. French. 1,740,552; Dec. 24.  
Delivery mechanism. A. M. Zuckerman. 1,709,386; Apr. 16.  
Delivery mechanism, Article-. F. W. Danberg. 1,708,664; Apr. 9.  
Delivery mechanism for salt pans and the like. G. Paltzer. 1,723,880; Aug. 6.  
Delivery of liquid. A. E. L. Chorlton. 1,721,001; July 16.  
Delivery system, Mail-. L. Gulbransen. 1,738,894; Dec. 10.  
Delustering of artificial-silk fibers or rayon. O. F. Muller. 1,705,490; Mar. 19.  
Demand meter, Maximum-. D. C. Davis. 1,697,166; Jan. 1.  
Demand meter, Pilot-controlled. E. S. Rush. 1,725,374; Aug. 20.  
Demodulator and method of demodulation. S. Ballantine and L. M. Hull. 1,698,668; Jan. 8.  
Demountable battery. W. E. Holland. 1,703,735; Feb. 26.  
Demountable wheel. A. C. Hyman. 1,722,750; July 30.  
Demountable wheel, Interchangeable. E. K. Baker. 1,718,916; June 25.  
Denaturant. S. Isermann, J. W. Orelup, and E. Ohlsson. 1,730,850; Oct. 8.  
Dense foam, Apparatus for the production of. G. M. Thomson. 1,737,624; Dec. 3.  
Dense foam, Production. G. M. Thomson. 1,737,623; Dec. 3.  
Density regulator, Paper-stock. F. B. Wells. 1,707,966; Apr. 2.  
Dental apparatus. W. G. Bridge and W. A. Pervier. 1,719,750; July 2.  
Dental apparatus. J. M. Craigo. 1,732,790; Oct. 22.  
Dental apparatus. A. W. MacVey. 1,729,223; Sept. 24.  
Dental apparatus. D. W. McLean. 1,705,223; Mar. 12.  
Dental apparatus. O. H. and A. F. Pieper. 1,719,306; July 2.  
Dental apparatus, Unitary. O. H. and A. F. Pieper. 1,697,287; Jan. 1.  
Dental appliance. H. Hartman. 1,727,643; Sept. 10.  
Dental appliance. H. R. Jones. 1,742,080; Dec. 31.  
Dental appliance. J. E. Meadows. 1,718,868; June 25.  
Dental articulator. H. C. Hagman. 1,736,006; Nov. 19.  
Dental articulator. B. B. McCollum. 1,733,507; Oct. 29.  
Dental bite apparatus. T. J. Burgess. 1,725,249; Aug. 20.  
Dental bite method. A. O. Eberhart. 1,728,199; Sept. 17.  
Dental bridge. M. C. Lasky. 1,737,164; Nov. 26.  
Dental bridge-work construction. F. S. Trusler. 1,714,059; May 21.  
Dental casting machine. I. E. Brenner. 1,700,119; Jan. 29.  
Dental chair. A. J. May. 1,708,450; Apr. 9.  
Dental chair. A. J. May. 1,737,505; Nov. 26.  
Dental chair. A. W. Schramm. 1,702,175; Feb. 12.  
Dental clamp. W. I. Brigham. 1,720,031; July 9.  
Dental clasp. J. Tugendreich. 1,706,086; Mar. 19.  
Dental crowns, Making. M. A. Berger. 1,711,402; Apr. 30.  
Dental crowns, Making. J. Petry. 1,737,172; Nov. 26.  
Dental crowns, Method of and apparatus for making. J. Petry. 1,737,539; Nov. 26.  
Dental device and utilizing the same. G. P. Phillips. 1,734,398; Nov. 5.  
Dental device for registering bites, Method and. S. F. Gilmore. 1,711,885; May 7.  
Dental drill. J. C. Shotton. 1,697,576; Jan. 1.  
Dental engine. H. E. Weber. 1,714,412; May 21.  
Dental equipment apparatus. A. F. Pieper. 1,734,744; Nov. 5.  
Dental filling apparatus. J. A. Espinola. 1,712,139; May 7.  
Dental floss holder. E. G. Stafford. 1,700,690; Jan. 29.  
Dental furnace. O. A. Colby. 1,697,164; Jan. 1.  
Dental gauge. D. W. Ross. 1,726,193; Aug. 27.  
Dental hand piece. W. J. Terry. 1,740,796; Dec. 24.  
Dental hot-air blower. L. A. Young. 1,701,025; Feb. 5.  
Dental impression tray. B. Lurie. 1,740,773; Dec. 24.  
Dental instrument. G. Schneider. 1,707,952; Apr. 2.  
Dental instrument structure. O. H. Pieper. 1,711,539; May 7.  
Dental, model. G. F. Ingwersen. 1,711,947; May 7.  
Dental models, Method of and apparatus for use in casting. J. V. Matteson, jr. 1,733,895; Oct. 29.  
Dental plate joint. V. Klein. 1,707,862; Apr. 2.  
Dental plate, Lower. W. M. Stanbrough. 1,709,690; Apr. 16.  
Dental press. B. Underdahl. 1,699,932; Jan. 22.  
Dental purposes. Angled handpiece for. A. Wendt. 1,711,863; May 7.  
Dental slab, Renewable. J. J. McCarthy. 1,729,292; Sept. 24.  
Dental sterilization, Method of and apparatus for. N. H. Lowry and L. F. Megaw. 1,713,971; May 21.  
Dental work, Apparatus for applying heat and air in. J. H. Kaplan. 1,722,377-8; July 30.  
Dentistry, Prosthetic. E. A. Thayer. 1,729,461; Sept. 24.  
Dentist's bite-check apparatus. L. C. Hickok. 1,738,143; Dec. 3.  
Denture. R. M. Craig. 1,698,259; Jan. 8.  
Denture. J. J. Stark. 1,738,460; Dec. 3.  
Denture and articulator therefor, Making and fitting artificial. A. P. Murray. 1,722,306; July 30.  
Denture and making the same, Artificial. H. D. Morgan. 1,714,185; May 21.  
Denture, Artificial. B. Krasnoff. 1,732,898-9; Oct. 22.  
Denture, Artificial. C. C. Limbath. 1,722,054; July 23.  
Denture-attaching device. J. and S. Arkus. 1,720,537; July 9.  
Denture attachment. G. T. Gregg. 1,721,443; July 16.  
Denture attachment. I. Stern. 1,719,314; July 2.  
Denture attachment. I. Stern. 1,730,542; Oct. 8.  
Denture or plate, Artificial. E. L. W. Hewson. 1,721,955; July 23.  
Dentures, Attaching device for. H. C. Hagman. 1,735,537; Nov. 12.  
Dentures, Layer for upper. W. M. Stanbrough. 1,739,527; Dec. 17.  
Dentures, Making. J. C. Schwartz. 1,699,859; Jan. 22.  
Dentures, Retaining appliance for artificial. H. D. Willey. 1,738,626; Dec. 10.  
Deodorant composition. G. T. Southgate. 1,729,752; Oct. 1.  
Deodorizer. J. W. and A. W. Pelphrey. 1,739,857; Dec. 17.  
Deodorizer and drier. W. C. Glover. 1,730,501; Oct. 8.  
Deodorizing and dehumidifying composition and making same. H. J. Davenport. 1,741,921; Dec. 31.  
Deodorizing animal and vegetable oils. M. Rogovin. 1,737,731; Dec. 3.  
Deodorizing apparatus. E. A. Elliott. 1,712,816; May 14.  
Deodorizing dust wheel. A. I. Hondeville. 1,714,223; May 21.  
Deoxidation system. L. H. Hill and W. M. Dann. 1,720,516; July 9.  
Deoxidizer. C. J. Rodman and A. H. Maude. 1,736,464; Nov. 19.  
Deoxygenation of inclosed atmosphere. C. J. Rodman. 1,725,160; Aug. 20.  
Dephlegmation, Apparatus for. P. J. Duncan. 1,738,766; Dec. 10.  
Dephlegmator. W. M. Cross. 1,734,615; Nov. 5.  
Dephlegmator or fractionating column. L. C. Huff. 1,741,519; Dec. 31.  
Depilating carcasses. C. T. Walter. 1,721,610; July 23.  
Depolymerization or degradation products of carbohydrate, of high molecular weight, Manufacture of. F. Lange. 1,714,565; May 28.  
Depository, After-hour. O. B. McClintock, E. G. Lawrence, E. C. Hanson, and J. Soderholm. 1,704,865; Mar. 12.  
Depth gauge, Quick-acting. D. C. Klausmeyer. 1,727,607; Sept. 10.  
Depth-indicating device. H. W. King. 1,714,788; May 28.  
Depth-indicating device. H. W. King. 1,742,084; Dec. 31.  
Depth-indicating device, Liquid-. H. W. King. 1,696,915; Jan. 1.  
Denthotermeter. W. H. Geis and J. E. Van Gundy. 1,699,235; Jan. 15.  
Derrall, Portable. S. W. Hayes. 1,702,083; Feb. 12.



- Derailer. G. H. Frazier and A. E. Herrold. 1,728,484; Sept. 17.
- Derby doubler or silver-lap machine. A. G. Riding. 1,725,018; Aug. 20.
- Derivatives of dihydrocodeinone or its substitution products, Manufacture of. C. Schöpf. 1,731,152; Oct. 8.
- Derivatives of the cinchona alkaloids. E. Burckhardt, F. Müller, and E. Rothlin. 1,701,138; Feb. 5.
- Derivatives of 2-hydroxynaphthalene-3-carboxylic acid amide, Producing. M. Raack. 1,733,468; Oct. 29.
- Derrick. J. Bergesen, sr. 1,720,714; July 16.
- Derrick. E. H. Morris. 1,712,396; May 7.
- Derrick. A. Smith. 1,736,419; Nov. 19.
- Derrick cap. E. P. Bathurst. 1,731,121; Oct. 8.
- Derrick construction, Steel-. T. S. Park. 1,729,894; Oct. 1.
- Derrick construction, Well-. G. G. Reeves. 1,738,667; Dec. 10.
- Derrick elevator. P. R. Meadville. 1,708,317; Apr. 9.
- Derrick-frame construction. W. H. Cater. 1,730,995; Oct. 8.
- Derrick jack. A. L. Day. 1,726,260; Aug. 27.
- Derrick reinforcement. A. L. Day. 1,713,217; May 14.
- Derricks. Top construction for well. D. D. Wertzberger. 1,705,598; Mar. 19.
- Derricks. Tube rack for. Q. C. Webb and G. Carlton. 1,718,395; June 25.
- Desensitizer and developer and desensitizing and developing, Combined. H. Meyer. 1,713,613; May 21.
- Desiccating apparatus. B. Bouda and G. G. Skelton. 1,717,491; June 18.
- Desiccation apparatus. W. H. Dickerson. 1,734,289; Nov. 5.
- Design and molding the same. C. J. Hall and G. C. Kent. 1,697,182; Jan. 1.
- Design for casement windows, Ornamental. C. E. Horton. 1,709,267; Apr. 16.
- Design generation. W. C. Hadley. 1,712,431; May 7.
- Design-making device. S. V. Dawson, J. G. Wilkins, and E. H. Dawson. 1,706,998; Mar. 26.
- Designs for reproduction, Producing. A. Fruwirth. 1,725,395; Aug. 20.
- Designs in furs, Producing. F. W. Horstmann. 1,737,085; Nov. 26.
- Designs in furs, Producing. F. W. Horstmann. 1,737,086; Nov. 26.
- Designs, Presenting composite. F. Sesti. 1,738,398; Dec. 3.
- Desk. E. J. Card. 1,705,151; Mar. 12.
- Desk. E. J. Card. 1,718,943; July 2.
- Desk. P. S. Hawkins. 1,728,933; Sept. 24.
- Desk. R. M. Miller. 1,725,816; Aug. 27.
- Desk accessory. M. Piltzer. 1,733,388; Oct. 29.
- Desk and chair, Combination school. P. Schiefer and W. Getty. 1,736,135; Nov. 19.
- Desk and seat, Combined adjustable. A. Engers. 1,731,375; Oct. 15.
- Desk and seat standard, Combination school. E. C. Amsden. 1,734,105; Nov. 5.
- Desk-drawer lock. B. E. Richardson. 1,712,842; May 14.
- Desk element, Folding and automatically-closing. J. R. Blaine. 1,723,324; Aug. 6.
- Desk for typewriters or like machines. R. C. Erskine. 1,731,096; Oct. 8.
- Desk pad. R. B. Larter. 1,720,682; July 16.
- Desk pad. C. March. 1,712,352; May 7.
- Desk pad. W. F. Sanders. 1,709,544; Apr. 16.
- Desk, Reading. J. Dierks. 1,712,814; May 14.
- Desk, Sectional. L. W. Dangford. 1,700,202-3; Jan. 29.
- Desk, Sectional roll-top. L. W. Langford and H. E. Baker. 1,700,201; Jan. 29.
- Desk set. W. Guyot. 1,706,662; Mar. 26.
- Desk stand and penholder, Combination. G. J. Sengbusch. Des. 80,148; Dec. 17.
- Desk stand and penholder, Combined. R. Back and G. A. Cooper. Des. 79,691; Oct. 29.
- Desk stand, Telephone. H. M. Bascom. Des. 78,605; May 28.
- Desk station for pneumatic dispatch systems. J. T. Cowley. 1,736,995; Nov. 26.
- Desk tray set. F. L. G. Straubel. 1,728,638; Sept. 17.
- Desk, Typewriter. L. T. Herrmann. 1,739,070; Dec. 10.
- Desk, Typewriter. C. W. Koch. 1,712,505; May 14.
- Desk, Typewriter. J. Waldheim. 1,727,000; Sept. 3.
- Desk, Writing. R. F. Bragg and G. A. Weston. 1,717,433; June 18.
- Deslimmer and classifier. J. R. Wright. 1,720,810; July 16.
- Dessert set or similar article. S. W. Farber. Des. 78,093; Mar. 26.
- Dessert set or similar article. S. W. Farber. Des. 78,095; Mar. 26.
- Destruction of insect pests. A. M. Kobiolke. 1,725,650; Aug. 20.
- Desulphurization of pyrite cinders. I. Cavalli. 1,703,027; Feb. 19.
- Desulphurizing steel. C. T. Hennig. 1,717,153; June 11.
- Desuperheater. E. Hagenbucher. 1,701,233; Feb. 5.
- Detachable clip. E. P. Hooley. 1,718,148; June 18.
- Detachable handle. E. R. Hiatt. 1,697,241; Jan. 1.
- Detector. See—
- Coin detector. Short-circuit detector.
- Crystal detector. Slug detector.
- Feeler or filling detector. Sound detector.
- Mercury-vapor detector. Traffic-signal detector.
- Radio crystal detector. Weft detector.
- Detector. W. A. Capps. 1,725,128; Aug. 20.
- Detector. M. L. Hartmann and M. C. Miller. 1,708,572; Apr. 9.
- Detector for automatic looms, Weft. T. F. Hagarty. 1,711,597; May 7.
- Detector for messenger-call circuits, Trouble. G. W. Jan-son. 1,698,305; Jan. 8.
- Detergent composition. F. Daniels. 1,719,595; July 2.
- Detergent composition and making same. G. C. Bryson. 1,728,721; Sept. 17.
- Detergent, Powdered. S. S. Sadtler. 1,738,967; Dec. 10.
- Determining electrical axes in a crystal. E. Giebe and A. Scheibe. 1,720,659; July 16.
- Determining the behavior of the individual particles of a body when subjected to stress. L. Harter. 1,711,347; Apr. 30.
- Determining the calorific value of gases, Apparatus for. O. Dommer. 1,720,782; July 16.
- Determining the consistency of concrete, Method of and apparatus for. E. H. Lichtenberg. 1,730,893; Oct. 8.
- Determining the content of foreign substances in iron and steel. B. D. Enlund. 1,718,687; June 25.
- Determining the position of fluid-bearing sands while drilling wells, Method and apparatus for. J. D. Hackstaff and L. T. McCutcheon. 1,720,325; July 9.
- Determining the relative position of objects and devices suitable therefor. W. G. Dunham. 1,705,243; Mar. 12.
- Detonating device. J. E. Gibbs. 1,709,127; Apr. 16.
- Detonating device. B. N. Hartwell. 1,703,446; Feb. 26.
- Detonating device. C. V. Smith. 1,732,865; Oct. 22.
- Detonating or blasting cap, Electrically-ignited. A. G. Schuricht. 1,704,222; Mar. 5.
- Detonation in internal-combustion engines, Device for prevention of. R. Kondo. 1,719,705; July 2.
- Detonator and fuse body for percussion or other fuses, Combined. L. E. Rémond. 1,710,271; Apr. 23.
- Detonator package. J. M. Olin and J. B. Smith. 1,698,962; Jan. 15.
- Developing apparatus. A. Langsner. 1,699,976; Jan. 22.
- Developing apparatus. A. Langsner. 1,704,439; Mar. 5.
- Developing apparatus. A. Langsner. 1,722,100; July 23.
- Developing apparatus. A. Langsner. 1,725,532; Aug. 20.
- Deviation and distance integrating apparatus, Automatic. E. L. Holmes. 1,741,713; Dec. 31.
- Device for carrying radium or radium containing compounds. F. I. Leach. 1,733,159; Oct. 29.
- Device for cleaning meat from bones. L. S. Pearl. 1,741,332; Dec. 31.
- Device for establishing a tappable neutral point in three-phase networks. J. Jonas. 1,719,843; July 9.
- Device for insuring an intense stirring-up in explosion motors provided with two lateral valve boxes (T heads). A. A. A. Darche. 1,737,452; Nov. 26.
- Device for making shoe-string potatoes. B. O. Opitz. 1,738,148; Dec. 3.
- Device for removing foreign bodies from the gullet of animals, especially of ruminants. O. Lehmann. 1,735,287; Nov. 12.
- Device for stretching pieces of tube. P. F. Hellermann. 1,725,638; Aug. 20.
- Device for transferring energy to or from a fluid. C. O. J. Montelius. 1,698,802; Jan. 15.
- Device insuring in a continuous and automatic manner the synchronism between a gramophone and a cinematographic projection machine. L. Robimarga. 1,697,695; Jan. 1.
- Device parts and sealing the same. J. D. Sartakoff. 1,718,708; June 25.
- Dewaterer for flaked agar or the like. J. Becker. 1,726,942; Sept. 3.
- Dextrose, Manufacture of. W. B. Newkirk. 1,722,761; July 30.
- Dextrose, Manufacturing of. C. Ebert, W. B. Newkirk, and M. Moskowitz. 1,704,037; Mar. 5.
- Dextrose, Producing. R. E. Daly. 1,708,940; Apr. 16.
- Diagnosing bladder conditions, Apparatus for. D. K. Rose. 1,712,848; May 14.
- Diagnostic instrument. H. L. De Zeng. 1,739,027; Dec. 10.
- Dial, Clock. J. H. Janssen. Des. 78,396; Apr. 30.
- Dial, Clock-face. J. Streng. Des. 78,043-4; Mar. 19.
- Dial control. H. R. Hayden. 1,738,296; Dec. 3.
- Dial, Diamond. G. R. Douglas. 1,729,824; Oct. 1.
- Dial for radio receiving sets. E. B. Nowosielski. 1,741,139; Dec. 24.
- Dial, Indicating. H. Gadegast. 1,740,941; Dec. 24.
- Dial mechanism for radio apparatus. W. A. Ready. 1,713,146; May 14.
- Dial operating and illuminating device. G. S. Smillie. 1,713,009; May 14.
- Dial, Telephone calling. V. F. Miller. 1,711,687; May 7.
- Dial, Vernier tuning. M. S. Howard. 1,724,762; Aug. 13.
- Dial, Watch. F. G. Gruen. Des. 79,292-3; Aug. 27.
- Dial with yielding foot for timepieces. E. C. Fitch. 1,708,293; Apr. 9.
- Dialkylamino-alkyl derivatives of the 3,6-dihydroxyacridine. New. F. Mietzsch. 1,727,480; Sept. 10.
- Diamond core drill. F. Powers and J. W. Tolland. 1,735,091; Nov. 12.
- Diaper. J. M. Dietz. 1,740,973; Dec. 24.
- Diaper. N. A. Kiamle. 1,716,065; June 4.
- Diaper. C. M. Schwartz. 1,723,303; Aug. 6.
- Diaper cover, Sanitary. G. B. Young. 1,723,833; Aug. 6.
- Diaphragm. I. Kimball. 1,705,771; Mar. 19.
- Diaphragm. C. S. Wickes. 1,729,305; Sept. 24.
- Diaphragm assembly. B. P. Joyce. 1,732,052; Oct. 15.



- Diaphragm, Balanced resiliency multiple-action one-piece. G. F. Borkman. 1,732,351; Oct. 22.
- Diaphragm especially for sound receiving and radiating apparatus. H. Hecht. 1,737,883; Dec. 3.
- Diaphragm for acoustical apparatus. H. Hecht and W. Rudolph. 1,741,841; Dec. 31.
- Diaphragm for expansion valves. R. M. Hyde. 1,703,531; Feb. 26.
- Diaphragm for transmitters and receivers. A. S. Thayer. 1,738,853; Dec. 10.
- Diaphragm for use in acoustic instruments. C. Menkens. 1,720,524; July 9.
- Diaphragm, Metal-coated. J. B. Hawley and P. G. Andres. 1,715,598; June 4.
- Diaphragm, Porous refractory. R. E. Lowe. 1,731,053; Oct. 8.
- Diaphragm principle for testing cans, Balanced-. J. A. Toleik. 1,720,934; July 16.
- Diaphragm signal. P. H. Withington. 1,722,348; July 30.
- Diaphragms, Making leather. H. L. Berry. 1,704,676; Mar. 5.
- Diastatic composition and making the same. J. Takamine, jr. 1,731,400; Oct. 15.
- Diathermic apparatus for treating certain diseases. D. B. Catlin. 1,723,602; Aug. 6.
- Diathermy apparatus. W. S. Werner. 1,733,763; Oct. 29.
- Diathermy method and apparatus. T. H. Perlman. 1,697,325; Jan. 1.
- Diazo compound from an amine of the aromatic series, Preparing a. K. Schirmacher and K. Renn. 1,728,217; Sept. 17.
- Diazosalt preparations for dyeing and printing. F. Keller and K. Schnitzspahn. 1,717,453; June 18.
- Dibenzylphthalate, Producing. A. Zimmerli. 1,708,404; Apr. 9.
- Dicalcium phosphate and ammonium sulphate, Production of. J. F. C. Hagens, L. Rosenstein, and W. Hirschkind. 1,699,393; Jan. 15.
- Dicebox. S. Moszelt. 1,727,483; Sept. 10.
- Dice-playing apparatus. G. Bastian. 1,718,401; June 25.
- Dice-throwing machine. W. D. Walker. 1,702,286; Feb. 19.
- Die: See—
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| Adjustable die.   | Pulp-suction die. |
| Automatic die.    | Punch-press die.  |
| Clip-bending die. | Threading die.    |
| Cutting die.      | Trimming die.     |
- Die. C. A. Messmer, jr. 1,718,476; June 25.
- Die. L. Moritsky. 1,699,439; Jan. 15.
- Die and making the same, Blanking. C. P. Shaw. 1,701,545-6; Feb. 12.
- Die apparatus. W. J. Kirby. 1,712,888; May 14.
- Die block. H. D. Forsyth. 1,732,331; Oct. 22.
- Die casting and producing same. W. J. During. 1,722,281; July 30.
- Die-casting machine. D. J. Conant. 1,724,395; Aug. 13.
- Die-casting machine. J. S. Gullborg. 1,719,764; July 2.
- Die-casting machine. A. Sebek. 1,729,801; Oct. 1.
- Die-casting machine. W. O. Will and E. Carlson. 1,713,312; May 14.
- Die-casting machine. W. O. Will and E. Carlson. 1,724,351; Aug. 13.
- Die-casting machine, Hydraulically-operated. W. O. Will and E. Carlson. 1,724,332; Aug. 13.
- Die casting, Process and machine for. J. P. Crowley. 1,708,011; Apr. 9.
- Die castings, Manufacture of. C. Vaughan. 1,697,741; Jan. 1.
- Die construction, Straightening. L. Bortkewicz. 1,741,278; Dec. 31.
- Die for cutting uppers for oxfords and low shoes, Reversible. W. and F. T. Anderson. 1,702,956; Feb. 19.
- Die for forging insulator caps. C. W. Stover. 1,709,328; Apr. 16.
- Die for forming washers. C. E. White. 1,738,547; Dec. 10.
- Die for imprinting plastic masses. M. Collis. 1,736,579; Nov. 19.
- Die for making steam-boiler stay bolts. A. F. Pitkin. 1,718,377; June 25.
- Die for permanent moldings. H. M. Williams. 1,717,643; June 18.
- Die for stamping out blanks, more particularly for leather goods. F. Mertinz. 1,738,599; Dec. 10.
- Die head. E. A. Bartlett. 1,713,319; May 14.
- Die head. A. F. Breitenstein. 1,706,104-5; Mar. 19.
- Die head. A. F. Breitenstein. 1,721,854; July 23.
- Die head. C. P. Harrison. 1,701,846; Feb. 12.
- Die head. S. F. Newman and J. G. Harper. 1,699,373; Jan. 15.
- Die head. H. T. Shearer. 1,699,994; Jan. 22.
- Die head, Self-opening. A. F. Breitenstein. 1,702,492; Feb. 19.
- Die heads, Trip for. S. F. Newman. 1,697,997; Jan. 8.
- Die-holding means for metal heading and trimming machines. T. H. Bauck. 1,742,022; Dec. 31.
- Die-lapping machine. W. Haddow. 1,714,869; May 28.
- Die mechanism and extrusion method of forming metal articles. F. W. Burger and B. Stockfleth. 1,722,995; Aug. 6.
- Die or punch mounting. A. W. Woodward and M. O. Kuhn. 1,715,972; June 4.
- Die placing and shifting. M. McKinley. 1,733,463; Oct. 29.
- Die press. C. T. Lyons and H. W. Bell. 1,725,287; Aug. 20.
- Die press, Rotary. M. Oxenhandler. 1,706,319; Mar. 19.
- Die-punching apparatus. H. W. Nordendale. 1,736,049; Nov. 19.
- Die-punching method. H. W. Nordendale. 1,718,176; June 18.
- Die roll. C. S. Andrews. 1,737,553; Dec. 3.
- Die roll. C. S. Andrews. 1,738,271; Dec. 3.
- Die-rolled article and making the same. W. P. Witherow and P. L. Coyle. 1,712,286; May 7.
- Die-shearing press. N. M. Marsilius. 1,721,276; July 16.
- Die shoe and guide for punch presses. J. M. Ruggles. 1,729,898; Oct. 1.
- Die-stamping presses, Finger guard for. B. Rousseau. 1,707,321; Apr. 2.
- Distock. I. W. Nonneman. 1,697,690; Jan. 1.
- Distock. T. Petersen. 1,724,410; Aug. 13.
- Die structure for the manufacture of hot tops. A. L. Moore. 1,698,603; Jan. 8.
- Die unit for cutting shoe blanks. B. V. Fister and H. L. Sutcliffe. 1,722,459; July 30.
- Dies, Adjusting means for threading. G. M. Mehl. 1,721,129; July 16.
- Dies and the like, Method of and mechanism for making blanking. O. S. Koskinen. 1,728,796; Sept. 17.
- Dies for making can nozzles. J. H. Wilson. 1,724,158; Aug. 13.
- Dies, Making. R. M. Akin. 1,708,715; Apr. 9.
- Dies, Making thread. J. Bath. 1,725,246; Aug. 20.
- Dies, Manufacturing. L. Weidlich, M. F. Tracy, and A. J. Flauder. 1,709,048; Apr. 16.
- Dies, Mounting. H. P. Arkema and S. Thronsen. 1,701,656; Feb. 12.
- Dielectric of condensers and the insulation of cables and other conductors. S. G. Brown. 1,702,993; Feb. 19.
- Dienes, Polymerization of. T. Midgley, jr., C. A. Hochwalt, and C. A. Thomas. 1,713,236; May 14.
- Diesel engine. H. T. Herr. 1,701,363; Feb. 5.
- Diesel engine. M. Louis. 1,698,161; Jan. 8.
- Diesel engine. K. Maybach. 1,720,182; July 9.
- Diesel engine. F. A. Ritter. 1,722,707; July 30.
- Diesel engine. H. Rohwer. 1,721,040; July 16.
- Diesel-generator combination. H. T. Herr. 1,701,364; Feb. 5.
- Diet cup, Rodent or the like. H. Levine. 1,741,194; Dec. 31.
- Dietary composition. F. Goedecke. 1,721,214; July 16.
- Differential. C. Andrade, jr. 1,698,181; Jan. 8.
- Differential. E. C. Foster. 1,738,179; Dec. 3.
- Differential. J. W. Roe. 1,737,390; Nov. 26.
- Differential drive for motor vehicles. J. C. Coulombe. 1,726,288; Aug. 27.
- Differential electric distant control device comprising static transmitters. E. Granat. 1,701,671; Feb. 12.
- Differential, Helical. E. H. Lorenz. 1,708,022; Apr. 9.
- Differential lock. L. E. West. 1,719,095; July 2.
- Differential mechanism. J. S. Curran. 1,697,457; Jan. 1.
- Differential mechanism. J. P. Johnson. 1,717,734; June 18.
- Differential mechanism. F. M. Lewis. 1,704,861; Mar. 12.
- Differential mechanism. L. H. Scurlock. 1,711,546; May 7.
- Differential mechanism. F. W. Seack. 1,716,565; June 11.
- Differential pressure device. D. S. Collins. 1,706,145; Mar. 19.
- Digester, Pulpwood. R. W. Hovey. 1,702,347; Feb. 19.
- Digesting fibrous material, Method and apparatus for. T. L. Dunbar and A. F. Richter. 1,699,056; Jan. 15.
- Digestive action of the stomach and the changes of its contents, Device for investigating and ascertaining the. C. Funk. 1,734,084; Nov. 5.
- Digger: See—
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| Posthole digger. | Potato digger. |
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- Digger, cleaner, and loader, Potato. F. R. Wright and C. B. Reynolds. 1,715,218; May 28.
- Digger for beet and other roots planted in lines. P. Raoult. 1,714,889; May 28.
- Digging and cleaning machine, Ditch. E. Neumann. 1,721,392; July 16.
- Digging machine, Ditch-. C. T. Topping. 1,717,476; June 18.
- Digging machine, Grass and weed. E. M. Hjelmstad and J. J. Hegstad. 1,710,259; Apr. 23.
- Digging machine, Trench-. R. L. Brown. 1,721,175; July 16.
- Digging machine, Trench-. R. L. Brown. 1,739,122; Dec. 10.
- Digging mechanism for wells and the like. C. Wild. 1,730,704; Oct. 8.
- Digging up and conveying ground from below the surface, Apparatus for. M. Jaeger. 1,740,922; Dec. 24.
- Digging up ground from below the surface, Method of and apparatus for. M. Jaeger. 1,701,678; Feb. 12.
- Diquanidine. M. Heyn. 1,737,192; Nov. 26.
- Dihydro-p-thioazines of the anthraquinone series and making same. G. Kränzlein and M. Corell. 1,709,986; Apr. 23.
- Di-iodo-fluorescein, Preparing. H. M. Chiles. 1,733,776; Oct. 29.
- Dilatometer. S. P. Rockwell. 1,716,796; June 11.
- Dilator. J. Q. Hepper. 1,714,474; May 21.
- Dilator. W. J. Kirk, R. H. Brownlee, and W. H. Coburn. 1,729,044; Sept. 24.



- Dilator. J. P. Zohlen. 1,737,488; Nov. 26.  
 Dilator, Physician's. A. T. Vance. 1,735,519; Nov. 12.  
 Dimmer glass. J. L. Rollins. 1,742,049; Dec. 31.  
 Dimming apparatus. W. E. McLaughlin. 1,723,745; Aug. 6.  
 Dimming apparatus for automobiles. W. E. McLaughlin. 1,714,389; May 21.  
 Dimming attachment for vehicle headlights. S. Evans. 1,732,186; Oct. 15.  
 Dinitroarylamino-diarylamines and preparing same, Water soluble. H. Wagner. 1,709,292; Apr. 16.  
 Dinitro-halogenaryls and preparing same. E. Fischer. 1,709,256; Apr. 16.  
 Dinitrophenol, Making. D. B. Bradner. 1,723,761; Aug. 6.  
 Dip brazing. O. M. Krembs. 1,719,512; July 2.  
 Diphenylguanidine, Making. R. V. Heuser. 1,727,060; Sept. 3.  
 Dipper front. O. W. Andersen. 1,717,907; June 18.  
 Dipper, Ice-cream. E. J. Martineau. 1,721,045; July 16.  
 Dipper-latch actuator. W. M. Houghton. 1,712,040; May 7.  
 Dipper scraper, Ice-cream-. B. Hart and F. Holmes. 1,735,756; Nov. 12.  
 Dipper-stick end fitting. E. J. Wilson. 1,714,580; May 28.  
 Dipper tooth. D. H. Meyer. 1,722,154; July 23.  
 Dipper tooth. W. E. Miley. 1,697,536; Jan. 1.  
 Dipper-tripping device. C. E. Clutter and L. R. Russell. 1,700,468; Jan. 29.  
 Dipping apparatus, Article-. E. B. Powell. 1,697,436; Jan. 1.  
 Dipping, cooking, and article-holding apparatus, Combined. S. S. Jenkins. 1,706,491; Mar. 26.  
 Dipping machine. C. Nicholson. 1,703,687; Feb. 26.  
 Dipping table, Hand. D. G. Steely. 1,719,570; July 2.  
 Direction-changing mechanism for sheet feeders. A. Broadmeyer. 1,709,006; Apr. 16.  
 Direction controlling mechanism, Automatic. F. P. Dahlstrom. 1,697,757; Jan. 1.  
 Direction finding. R. V. L. Hartley. 1,700,528; Jan. 29.  
 Direction-indicating signal. F. Cannon. 1,729,371; Sept. 24.  
 Direction indicator. E. A. Bradbury and W. B. Holland. 1,725,248; Aug. 20.  
 Direction indicator. J. Clifford. 1,708,606; Apr. 9.  
 Direction indicator. D. Di Carlo. 1,698,297; Jan. 8.  
 Direction indicator. A. L. Fuchs. 1,712,661; May 14.  
 Direction indicator. A. Kessel. 1,741,190; Dec. 31.  
 Direction indicator. A. H. Meisenheimer. 1,726,910; Sept. 3.  
 Direction indicator. B. Van De Water. 1,738,123; Dec. 3.  
 Direction indicator. H. Williams. 1,716,873; June 11.  
 Direction indicator and recorder for ships, etc. G. Walker. 1,738,807; Dec. 10.  
 Direction indicator, Automobile. H. J. Murray and W. S. Rugg. 1,704,710; Mar. 12.  
 Direction indicator for motor vehicles. G. H. Traut. 1,701,738; Feb. 12.  
 Direction-indicator switch. A. R. P. Johnson. 1,709,619; Apr. 16.  
 Direction indicator, Vehicle. J. Amsler. 1,731,964; Oct. 15.  
 Direction recorder. G. Walker. 1,738,808; Dec. 10.  
 Direction signal. L. Beaumont. 1,727,854; Sept. 10.  
 Direction signal. R. De Bersaques. 1,732,794; Oct. 22.  
 Direction signal. A. F. Edmonston. 1,714,553; May 21.  
 Direction signal. G. MacKay. 1,734,094; Nov. 5.  
 Direction signal. A. F. Rubio. 1,705,142; Mar. 12.  
 Direction signal, Electrically-operated. H. H. Harada. 1,715,654; June 4.  
 Direction signal, Vehicle. H. W. Terry and A. A. Clarke. 1,715,578; June 4.  
 Directional signal, Automobile. K. Futamata. 1,708,218; Apr. 9.  
 Directory. H. S. Pardee. 1,727,840; Sept. 10.  
 Directory and calendar, Telephone. C. E. Napp. 1,701,821; Feb. 12.  
 Directory board. T. P. Richardson, jr. 1,737,520; Nov. 26.  
 Directory device, Vehicle route-. E. M. Johnson. 1,728,997; Sept. 24.  
 Directory for drivers. G. E. Cook. 1,710,207; Apr. 23.  
 Dirigible. R. H. Upson. 1,706,830; Mar. 26.  
 Dirigible aircraft. C. C. Gilman. 1,726,062; Aug. 27.  
 Dirigible airship. V. E. Edwards. 1,732,040; Oct. 15.  
 Dirigible light. L. Hunter. 1,721,120; July 16.  
 Dirigible light. C. Sklarek. 1,724,685; Aug. 13.  
 Dirigible, Operating a lighter-than-air. F. B. Many. 1,727,210; Sept. 3.  
 Dirigibly-mounted light. C. Sklarek. 1,699,508; Jan. 15.  
 Dirigibly-mounted light. C. Sklarek. 1,704,225; Mar. 5.  
 Dirt collector for bowling-alley pits. M. L. J. Kehoe. 1,700,264; Jan. 29.  
 Dirt-handling machine. H. M. Pursel. 1,735,412; Nov. 12.  
 Discharge block. W. L. Cook. 1,726,807; Sept. 3.  
 Discharge device, Evacuating electric. H. C. Rentschler. 1,716,149; June 4.  
 Discharge device, Thermionic. D. G. Little. 1,709,029; Apr. 16.  
 Discharge devices, System of space. A. A. Oswald and E. L. Nelson. 1,698,558; Jan. 8.  
 Discharge devices, System of space. E. J. Sterba. 1,719,456; July 2.  
 Discharge for concrete mixers, Rotary. R. A. Beckwith. 1,702,102; Feb. 12.  
 Discharge installation, Superpotential. C. E. Bennett. 1,724,820; Aug. 13.  
 Discharge mechanism for container-handling vessels. A. R. Thompson. 1,701,765; Feb. 12.  
 Discharge outlet. J. Beyer. 1,727,693-4; Sept. 10.  
 Discharge tube. J. Slepian. 1,724,377; Aug. 13.  
 Discharge tube. L. Szilard. 1,697,210; Jan. 1.  
 Discharge tube. L. Szilard. 1,715,874; June 4.  
 Discharge tube, Electric-. G. L. Hertz. 1,726,107; Aug. 27.  
 Discharge tube, Electric. R. Rüdenberg. 1,707,141; Mar. 26.  
 Discharge tube, Luminous electric. R. Francotte. 1,723,929; Aug. 6.  
 Discharging device for paints and the like. W. Schmuizer. 1,714,482; May 21.  
 Discoloration of canned foods, Process and product for preventing. G. S. Bohart. 1,699,274; Jan. 15.  
 Disconnect signal for telephone circuits, Premature-. R. W. Morris and S. F. Nelson. 1,728,975; Sept. 24.  
 Disconnecting and reconnecting device for distant-control arrangements. E. Granat. 1,697,976; Jan. 8.  
 Disconnecting block. T. Birkenmaier. 1,704,961; Mar. 12.  
 Disconnecting device. W. Foster. 1,701,877; Feb. 12.  
 Disconnecting switch. A. O. Austin. 1,723,837; Aug. 6.  
 Disconnecting switch. O. H. Eschholz. 1,716,166; June 4.  
 Disconnecting switch, Gang-operated. H. W. Morreall. 1,717,729; June 18.  
 Disconnecting switch, Plunger-type. C. G. Koppitz. 1,697,769; Jan. 1.  
 Dish. O. Bergner. Des. 79,917; Nov. 19.  
 Dish. R. G. Cowan. Des. 79,352; Sept. 10.  
 Dish. W. J. Highsmith. Des. 78,692; June 4.  
 Dish. F. H. Rhead. Des. 79, 100; July 30.  
 Dish. C. L. Sebring. Des. 80,191; Dec. 24.  
 Dish. C. H. West. Des. 78,370; Apr. 23.  
 Dish, Covered. J. Bernardaud. Des. 78,079-80; Mar. 26.  
 Dish, Glass. R. Haley. Des. 77,691; Feb. 12.  
 Dish or analogous article. R. Dimes, jr. Des. 77,939; Mar. 12.  
 Dish or like article, Covered. M. Solon. Des. 79,445; Sept. 17.  
 Dish or similar article. G. N. Allen. Des. 77,931; Mar. 12.  
 Dish or similar article. M. S. Goldman. Des. 77,403; Jan. 8.  
 Dish or similar article. W. P. Graham. Des. 78,746; June 18.  
 Dish or similar article. F. Schmidt. Des. 79,263; Aug. 20.  
 Dish or similar article, Border strip for a. R. Stuart. Des. 78,172; Apr. 2.  
 Dish or similar article, Candy. S. W. Farber. Des. 78,092; Mar. 26.  
 Dish or similar article, Candy. F. J. Murphy. Des. 79,299; Aug. 27.  
 Dish or similar article, Covered. L. Anduze. Des. 77,723; Feb. 19.  
 Dish or similar article, Covered. J. B. Goddard. Des. 78,283; Apr. 16.  
 Dish or similar article, Covered. J. V. Goddard. Des. 78,201; Apr. 9.  
 Dish or similar article, Covered. T. W. Harding. Des. 78,288; Apr. 16.  
 Dish or similar article, Covered. W. Lindley. Des. 77,698; Feb. 12.  
 Dish or similar article, Covered. H. T. Robinson. Des. 78,987; July 16.  
 Dish, Porcelain soap. P. Mueller. 1,709,144; Apr. 16.  
 Dishier. C. H. Jockmus. 1,712,042; May 7.  
 Dishier, Ice-cream. J. W. Cox. 1,698,716; Jan. 15.  
 Dishpan. W. B. Frankenstein. 1,737,754; Dec. 3.  
 Dishpan, Combination. M. Hein. 1,711,731; May 7.  
 Dish rack, Folding. C. F. Rodin. 1,714,629; May 28.  
 Dish-removing device, Hot-. L. J. Jakubowski. 1,739,033; Dec. 10.  
 Dishwasher. A. I. Donnellon. 1,728,153; Sept. 10.  
 Dishwasher. J. Jiretz, sr. 1,709,476; Apr. 16.  
 Dishwasher. A. G. Krockner. 1,734,137; Nov. 5.  
 Dishwasher. T. G. Melish. 1,703,946; Mar. 5.  
 Dishwasher. J. J. Simmons. 1,725,486; Aug. 20.  
 Dishwasher. R. B. Shoemaker and C. L. Lawrence. 1,717,417; June 18.  
 Dishwasher, Mechanical. F. A. Walker. 1,741,173; Dec. 31.  
 Dishwasher, Mechanical. W. R. Walker. 1,724,383; Aug. 13.  
 Dishwashing apparatus. G. F. Esser. 1,697,001; Jan. 1.  
 Dishwashing apparatus. J. J. Kehoe, jr. 1,720,332; July 9.  
 Dishwashing attachment. G. M. Smith. 1,726,930; Sept. 3.  
 Dishwashing machine. J. L. Bell and H. Euwecke. 1,699,042; Jan. 15.  
 Dishwashing machine. G. S. Blakeslee and G. P. Anstiss. 1,712,728; May 14.  
 Dishwashing machine. P. A. Buck and K. W. Hooth. 1,722,272; July 30.  
 Dishwashing machine. G. S. Clarkson. 1,710,863; Apr. 30.  
 Dishwashing machine. J. Fassio. 1,717,149; June 11.  
 Dishwashing machine. N. H. Henderson. 1,737,794; Dec. 3.  
 Dishwashing machine. F. McClintock. 1,738,839; Dec. 10.



- Dishwashing machine. J. H. Montgomery. 1,741,329; Dec. 31.
- Dishwashing machine. E. Netzhammer. 1,710,834; Apr. 30.
- Dishwashing machine. A. E. Smith. 1,714,324; May 21.
- Dishwashing machine. G. Webb and F. D. Jenks. 1,737,693; Dec. 3.
- Dishwashing machines, Attachment for. E. T. Treffinger. 1,718,613; June 25.
- Dishwashing, sterilizing, and drying machine. J. L. Breton. 1,720,622; July 9.
- Disinfectant and antiseptic embodying furane derivatives and making and utilizing the same. J. P. Trickey and C. S. Miner. 1,738,740; Dec. 10.
- Disinfectant, antiseptic, and healing medium. O. Gerngross and K. Rülke. 1,739,586; Dec. 17.
- Disinfectant, antiseptic, and medicament. O. Gerngross and K. Rülke. 1,740,543; Dec. 24.
- Disinfectant, Dust. G. Osvald. 1,738,197; Dec. 3.
- Disinfecting. T. Sabalitschka and H. Jacobson. 1,715,251; May 28.
- Disinfecting and apparatus therefor. A. Lowy. 1,719,185; July 2.
- Disinfecting and extirpating vermin by means of a steam boiler, Apparatus for. W. Lechler. 1,727,995; Sept. 10.
- Disinfecting apparatus, Drip. L. Kooperstein. 1,734,584; Nov. 5.
- Disinfecting device. H. Vangunten. 1,723,827; Aug. 6.
- Disinfecting hen's nest. C. P. Bettenga. 1,711,107; Apr. 30.
- Disinfecting seeds. W. P. Raleigh and C. B. Dickey. 1,734,646; Nov. 5.
- Disinfecting seeds and composition therefor. E. W. Schmidt. 1,711,545; May 7.
- Disinfecting water-closet seats. H. J. Osborne and H. R. L. White. 1,706,409; Mar. 26.
- Disintegrating and conveying machine. K. Davis. 1,739,215; Dec. 10.
- Disintegrating apparatus. J. E. Kennedy. 1,714,312; May 21.
- Disintegrating machine. D. C. Addicks. 1,721,289; July 16.
- Disintegrating machine. B. Cuniff and N. Lee. 1,697,052; Jan. 1.
- Disintegrating machine. E. Roth. 1,723,443; Aug. 6.
- Disintegrating machine, Rag-. E. C. Brooks. 1,740,644; Dec. 24.
- Disintegrating or mixing apparatus. C. W. Boise and W. R. Dezenhardt. 1,711,259; Apr. 30.
- Disintegrating sugar cane, Apparatus for. W. H. Morgan, sr. Re17,513; Dec. 3.
- Disintegrator, Culinary. G. Donato. 1,718,220; June 25.
- Disintegrator. K. Jurkovski. 1,733,489; Oct. 29.
- Disk-assembling mechanism. L. T. Frederick. 1,735,609; Nov. 12.
- Disk bit. Rotary. V. J. Kubin and P. Funderburk. Re17,522; Dec. 10.
- Disk bit, Spaced-leg reaming. F. W. Hild. 1,733,372; Oct. 29.
- Disk, Contact scanning. C. F. Jenkins. 1,740,654; Dec. 24.
- Disk-farming apparatus. H. B. Knobbe. 1,726,842; Sept. 3.
- Disk for cultivator attachment. L. F. Ordelheide. 1,701,983; Feb. 12.
- Disk for radio or phonograph receivers, Sound-modifying. H. W. Mourar. 1,709,276; Apr. 16.
- Disk for sound boxes. O. R. Grass. 1,696,949; Jan. 1.
- Disk for spare-tire covers, Emblem. W. Cluff. 1,704,555; Mar. 5.
- Disk-harrow mechanism. C. H. White. 1,707,745; Apr. 2.
- Disk lock. M. Falk. 1,726,614; Sept. 3.
- Disk moldboard. S. W. Packer. 1,723,705; Aug. 6.
- Disk, Perforating. G. A. Colman. 1,716,765; June 11.
- Disk-rolling mill. J. W. Hughes. 1,741,715; Dec. 31.
- Disk synchronizer, Multiple-. H. J. Murray. 1,738,788; Dec. 10.
- Disk wheel. F. H. Le Jeune and E. R. Jacobl. 1,714,512; May 28.
- Disk wheel, Demountable. E. A. Nelson. 1,721,313; July 16.
- Disk wheels, Rolling. J. W. Smith. 1,730,694; Oct. 8.
- Disks, or blanks for buttons or the like, Production or manufacture of. R. Stanforth. 1,698,376; Jan. 8.
- Disks, Production of split-up pull-tab closure. W. L. Wright. 1,733,708; Oct. 29.
- Dispatch apparatus, Selective-delivery pneumatic-. C. W. Meyers. 1,713,672; May 21.
- Dispatch carrier, Pneumatic-. D. J. MacMillan. 1,721,915; July 23.
- Dispenser. B. Ansehl. 1,736,146; Nov. 19.
- Dispenser. H. J. Cocks. 1,715,335; May 28.
- Dispenser. M. O. Emhoff. 1,729,508; Sept. 24.
- Dispenser. F. W. Fitch. 1,717,672; June 18.
- Dispenser. A. G. O. Hix. 1,715,922; June 4.
- Dispenser. C. S. McNally. 1,724,721; Aug. 13.
- Dispenser. C. S. McNally. 1,741,326; Dec. 31.
- Dispenser. J. B. Ohlson. 1,736,214; Nov. 19.
- Dispenser. R. B. Smith. 1,711,755; May 7.
- Dispenser and humidor, Cigarette. O. W. Moore. 1,703,352; Feb. 26.
- Dispenser and smoking stand, Cigarette, match, and cigar. E. Peterson. 1,706,040; Mar. 19.
- Dispenser, Beverage. L. G. Ames and A. W. Cartwright. 1,726,135; Aug. 27.
- Dispenser, Beverage. L. G. Ames. 1,733,111; Oct. 29.
- Dispenser, Beverage. L. L. Benham. 1,708,212; Apr. 9.
- Dispenser, Beverage. J. L. Philippeau. Des. 78,123; Mar. 26.
- Dispenser, Beverage. H. P. Saugman. 1,720,967; July 16.
- Dispenser, Carton. W. A. Endter. 1,726,813; Sept. 3.
- Dispenser. Combined gate and liquid. L. Hansen. 1,721,731; July 23.
- Dispenser, Cup. S. J. Graham. 1,701,035; Feb. 5.
- Dispenser, Drink. W. E. Baker. 1,720,753; July 16.
- Dispenser, Essence. J. L. McAtree. 1,731,250; Oct. 15.
- Dispenser, Fluid. R. G. Hamaker. 1,711,782; May 7.
- Dispenser, Fluid-fuel. E. L. Fox, jr. 1,729,665; Oct. 1.
- Dispenser for confections or similar article. D. T. Hails. Des. 79,714; Oct. 29.
- Dispenser for creams and the like. L. Simmons. 1,709,411; Apr. 16.
- Dispenser for napkins and the like. G. A. Shaffer. 1,707,578; Apr. 2.
- Dispenser for paper drinking cups. B. Jahn and E. E. Kahl. 1,733,124; Oct. 29.
- Dispenser for powdered or granulated materials. E. E. Wolfe. 1,727,320; Sept. 3.
- Dispenser, Fruit-juice. A. B. Green, R. G. Reeve, and R. C. Berlin. Des. 78,974; July 16.
- Dispenser, Liquid. G. S. Eldred. 1,708,834; Apr. 9.
- Dispenser, Liquid. F. W. Epperson. Des. 79,187; Aug. 13.
- Dispenser, Liquid. J. Liddle. 1,722,907; July 30.
- Dispenser, Liquid. J. R. Manley. 1,733,310; Oct. 29.
- Dispenser, Liquid. F. and C. Schaum. 1,703,753; Feb. 26.
- Dispenser, Liquid-soap. R. D. Albright. 1,719,865; July 9.
- Dispenser, Mustard. E. Sigel. 1,725,163; Aug. 20.
- Dispenser, Napkin. C. H. Coons. 1,719,690; July 2.
- Dispenser, Oil. A. E. Carlberg. 1,725,056; Aug. 20.
- Dispenser, Refrigerated bottle. A. E. Smith. 1,736,057; Nov. 19.
- Dispenser, Refuse. J. Shaver. 1,732,775; Oct. 22.
- Dispenser, Salt and pepper. W. J. Miller. 1,734,821; Nov. 5.
- Dispenser, Sanitary-toilet-seat-cover. P. Sundock. 1,741,798; Dec. 31.
- Dispenser, Soap. A. J. Bodien. 1,725,746; Aug. 27.
- Dispenser, Soap. J. Fritsche. 1,736,824; Nov. 26.
- Dispenser, Soap. C. H. Gage. Des. 77,402; Jan. 8.
- Dispenser, Soap. A. E. Holmes. 1,720,044; July 9.
- Dispenser, Soap paste. H. P. Gorman. 1,703,032; Feb. 19.
- Dispenser, Toothpick. L. Trnovac. 1,741,889; Dec. 31.
- Dispenser, Toothpick. F. Zanardelli and C. Antonelli. 1,737,747; Dec. 3.
- Dispenser, Visible unit-measuring liquid. R. E. Risser. 1,703,363; Feb. 26.
- Dispenser, Water. D. H. Ebinger. 1,702,560; Feb. 19.
- Dispensers, Mechanism for controlling liquid. J. J. M. Gueux. 1,720,597; July 9.
- Dispensers, Predetermining and indicating mechanism for. P. S. Shield. 1,724,429; Aug. 13.
- Dispensing and cooling apparatus, Beverage. L. W. Hasensall. 1,730,728; Oct. 8.
- Dispensing and measuring device. W. W. Campbell. 1,710,295; Apr. 23.
- Dispensing and measuring device. W. S. Naylor. 1,741,476; Dec. 31.
- Dispensing and recording apparatus, Liquid. B. F. Hardesty. 1,732,599; Oct. 22.
- Dispensing and severing device for rolled strip material. A. P. Ingram. 1,704,044; Mar. 5.
- Dispensing apparatus. F. S. Barks. 1,714,122; May 21.
- Dispensing apparatus. P. Böhleng. 1,705,392; Mar. 12.
- Dispensing apparatus. E. Brunhoff. 1,728,526; Sept. 17.
- Dispensing apparatus. G. C. Chamness. G. E. Chamness, R. L. Kane, and H. M. Keith. 1,722,199; July 23.
- Dispensing apparatus. W. E. Doughty. 1,697,230; Jan. 1.
- Dispensing apparatus. E. P. Hayes. 1,711,783; May 7.
- Dispensing apparatus. A. N. Parran. 1,734,045; Nov. 5.
- Dispensing apparatus. P. S. Shield. 1,739,870; Dec. 17.
- Dispensing apparatus. H. D. Smith. 1,717,944; June 18.
- Dispensing apparatus. H. D. and W. D. Smith. 1,732,543; Oct. 22.
- Dispensing apparatus. M. Zucchelli. 1,723,497; Aug. 6.
- Dispensing apparatus, Competitive coin-controlled. E. C. Fey. 1,711,998; May 7.
- Dispensing apparatus for soap powder and the like. L. H. Johansen. 1,735,902; Nov. 19.
- Dispensing apparatus, Gasoline-. E. P. Hayes. 1,726,436; Aug. 27.
- Dispensing apparatus, Liquid-. I. H. Creech. 1,734,474; Nov. 5.
- Dispensing apparatus, Liquid-. J. B. Davis. 1,722,694; July 30.
- Dispensing apparatus, Liquid-. E. E. Elckmeyer. 1,727,053; Sept. 3.
- Dispensing apparatus, Liquid-. F. B. Eilers. 1,727,317; Sept. 3.
- Dispensing apparatus, Liquid-. B. Konipol. 1,728,939; Sept. 24.
- Dispensing apparatus, Liquid-. S. J. Marburger. 1,705,580; Mar. 19.
- Dispensing apparatus, Liquid-. T. Midgley, jr. 1,733,423; Oct. 29.
- Dispensing apparatus, Liquid-. W. G. O'Brien. 1,706,631; Mar. 26.
- Dispensing apparatus, Liquid-. T. A. Patterson. 1,720,145; July 9.



- Dispensing apparatus, Lubricant-. O. U. Zerk. 1,703,285; Feb. 26.
- Dispensing apparatus, Lubricant. O. Zerk. 1,720,871-2; July 16.
- Dispensing apparatus, Lubricant. O. Zerk. 1,720,874; July 16.
- Dispensing apparatus, Paste-. M. Ury. 1,698,834; Jan. 15.
- Dispensing apparatus, sheet-. C. C. Johnson. 1,703,938; Mar. 5.
- Dispensing-bag unit. L. C. Swim. 1,717,900; June 18.
- Dispensing booth, Refreshment-. H. W. Tuttle. Des. 78,719; June 11.
- Dispensing can, Oil-. F. E. Gebhart. 1,727,056; Sept. 3.
- Dispensing cap. D. W. Lee. 1,721,666; July 23.
- Dispensing case, Cigarette-. C. G. Laine. 1,735,253; Nov. 12.
- Dispensing case, Vegetable. L. T. Summers. 1,718,263; June 25.
- Dispensing device. H. F. Bergstresser. 1,732,786; Oct. 22.
- Dispensing device. M. F. Bonomo. 1,700,433; Jan. 29.
- Dispensing device. I. A. Burnett. 1,727,326; Sept. 10.
- Dispensing device. W. C. Carlson. 1,734,031; Nov. 5.
- Dispensing device. T. Christian. 1,742,157; Dec. 31.
- Dispensing device. J. G. Coffin. 1,723,229; Aug. 6.
- Dispensing device. J. G. Coffin. 1,731,764; Oct. 15.
- Dispensing device. W. N. Cove. 1,703,710; Feb. 26.
- Dispensing device. G. F. Cramer. 1,731,767; Oct. 15.
- Dispensing device. E. C. Hake and S. S. Seligman. 1,734,968; Nov. 12.
- Dispensing device. F. Le Boeuf. 1,714,030; May 21.
- Dispensing device. H. Moore. 1,741,475; Dec. 31.
- Dispensing device. L. H. Morin. 1,698,239; Jan. 8.
- Dispensing device. D. E. Newton. 1,700,807; Feb. 5.
- Dispensing device. B. Papadopoulos. 1,725,930; Aug. 27.
- Dispensing device. A. E. Paysen and M. P. Wetmore. 1,723,070; Aug. 6.
- Dispensing device. W. J. Perkins. 1,707,566; Apr. 2.
- Dispensing device. H. P. Saugman. 1,715,429; June 4.
- Dispensing device. J. G. Schofield. 1,720,096; July 9.
- Dispensing device. K. N. Vartabedian. 1,728,142; Sept. 10.
- Dispensing device. G. F. Wells and R. R. Morgan. 1,714,704; May 28.
- Dispensing device. P. Werner. 1,721,981; July 23.
- Dispensing device. R. M. Zearing, Jr., and W. Tittle. 1,702,147; Feb. 12.
- Dispensing device, Air-. F. C. Fisher. 1,719,836; July 9.
- Dispensing device, Article-. D. D. Glass. 1,723,417; Aug. 6.
- Dispensing device, Counter. O. P. Pile and G. W. Forgy. 1,706,321; Mar. 19.
- Dispensing device, Fluid-. A. Applegate. 1,704,355; Mar. 5.
- Dispensing device, Food-. J. L. Neel. 1,735,355; Nov. 12.
- Dispensing device for containers, Material-. J. J. Klein. 1,739,678; Dec. 17.
- Dispensing device for folded napkins and the like. E. C. Morris. 1,728,694; Sept. 17.
- Dispensing device for lubricants and the like. F. S. Barks. 1,708,781; Apr. 9.
- Dispensing device for material. A. F. Files. 1,735,077; Nov. 12.
- Dispensing device for stacked articles. H. D. Gregory. 1,704,218; Mar. 5.
- Dispensing device for towels and the like. H. O. Yehlen. 1,697,038; Jan. 1.
- Dispensing device for wrapping material. L. A. Grossman. 1,704,287; Mar. 5.
- Dispensing device, Fruit. H. B. Luse. 1,722,849; July 30.
- Dispensing device, Gasoline-. T. M. Manson. 1,721,632; July 23.
- Dispensing device, Grease-. L. Goodman. 1,721,817; July 23.
- Dispensing device, Liquid-. E. C. Hake. 1,724,475; Aug. 13.
- Dispensing device, Liquid-. R. B. Tracy. 1,703,327; Feb. 26.
- Dispensing device, Liquid-soap-. L. Kooperstein. 1,735,465; Nov. 12.
- Dispensing device, Lubricant-. E. W. Davis. 1,716,485; June 11.
- Dispensing device, Lubricant-. O. U. Zerk. 1,714,254; May 21.
- Dispensing device, Mustard-. J. G. Coffin and F. M. Silverstein. 1,699,347; Jan. 15.
- Dispensing device, Mustard-. J. G. Coffin and F. M. Silverstein. 1,717,496; June 18.
- Dispensing device, Napkin-. G. A. Shaffer and F. H. Wirtz. 1,702,983; Feb. 19.
- Dispensing device, Soap-powder-. T. S. Patterson. 1,733,749; Oct. 29.
- Dispensing device, Tooth-paste-. R. L. Bourke. 1,731,703; Oct. 15.
- Dispensing device, Visible. R. W. Cobb. 1,730,118; Oct. 1.
- Dispensing device with safety lock. J. B. Cravey and P. R. Pierson. 1,699,097; Jan. 15.
- Dispensing device with safety lock. J. B. Cravey and P. R. Pierson. 1,736,489; Nov. 19.
- Dispensing devices, Attachment for. F. S. Wolfe. 1,703,284; Feb. 26.
- Dispensing flask. J. C. Howard. 1,718,905; June 25.
- Dispensing fountain. A. E. Repenning. Des. 78,715; June 11.
- Dispensing gasoline and the like, Apparatus for. S. B. Rockwell. 1,714,447; May 21.
- Dispensing ice cream, Apparatus for. W. R. Willauer. 1,739,339; Dec. 10.
- Dispensing ice cream, Apparatus for. W. R. Willauer. 1,739,431; Dec. 10.
- Dispensing ice-cream cones, Method and apparatus for. R. H. Baker. 1,704,695; Mar. 12.
- Dispensing irritants, Process and apparatus for. D. B. Bradner and N. E. Oglesby. Rel. 7,365; July 9.
- Dispensing liquids, Apparatus for. H. G. Cordley. 1,706,213; Mar. 19.
- Dispensing liquids, Apparatus for. A. J. Moisant. 1,705,940; Mar. 19.
- Dispensing machine. A. Boomersline. 1,723,325; Aug. 6.
- Dispensing machine. G. S. Cooke. 1,699,608; Jan. 22.
- Dispensing machine. S. Hanson. 1,738,428; Dec. 3.
- Dispensing machine. P. R. Hoopes. 1,711,021; Apr. 30.
- Dispensing machine. H. M. Kaufman. 1,739,970; Dec. 17.
- Dispensing machine. R. C. Pratt. 1,703,594; Feb. 26.
- Dispensing machine. E. J. Sweetland. 1,731,798; Oct. 15.
- Dispensing machine. H. B. Woods. 1,701,869; Feb. 12.
- Dispensing machines, Carton holder and delivery mechanism for. F. A. Hill. 1,722,048; July 23.
- Dispensing mechanism for visible pumps, Coin-controlled. M. W. Felver and R. A. Johnson. 1,705,755; Mar. 19.
- Dispensing of liquids. G. W. Stedwell. 1,717,274; June 11.
- Dispensing soft and plastic material, Appliance for. M. R. and F. L. Bishop. 1,700,364; Jan. 29.
- Dispensing stand. T. T. Mabbitt. Des. 79,433; Sept. 17.
- Dispensing tank. F. L. Hayes. 1,702,866; Feb. 19.
- Dispensing tank, Liquid-measuring-. A. R. Bateman. 1,719,748; July 2.
- Dispensing the contents of collapsible tubes, Device for. H. A. George. 1,710,653; Apr. 23.
- Dispensing tube. E. H. Barker. 1,733,712; Oct. 29.
- Dispensing tube. H. A. Bell. 1,729,979; Oct. 1.
- Dispensing tube. C. M. Davenport. 1,701,949; Feb. 12.
- Dispensing tube, Ethyl-chloride-. C. L. Gebauer. 1,727,876; Sept. 10.
- Dispensions of solids in liquids, Apparatus for the production of. W. H. Whatmough. 1,698,354; Jan. 8.
- Dispersions, Production of. L. Kirschbraun. 1,733,495; Oct. 29.
- Displacement apparatus. A. C. Durdin, Jr. 1,699,326-7; Jan. 15.
- Display and decorating device. F. T. Necker. 1,722,441; July 30.
- Display and dispensing apparatus. B. S. Mahaffey. 1,732,131; Oct. 15.
- Display and illuminating device. E. Shaughnessy. 1,715,628; June 4.
- Display and shipping device. M. L. Webster. 1,739,623; Dec. 17.
- Display and slicing device. E. C. Mahler and G. J. Krueger. 1,740,257; Dec. 17.
- Display and vending apparatus. E. Brunhoff. 1,719,531; July 2.
- Display and vending apparatus. J. A. McClanahan. 1,706,536; Mar. 26.
- Display and vending machine, Combined. R. C. Hardman. 1,737,499; Nov. 26.
- Display apparatus. R. M. Craig. 1,698,216-20; Jan. 8.
- Display apparatus. R. M. Craig. 1,698,223-4; Jan. 8.
- Display apparatus. J. Cannella. 1,728,746; Sept. 17.
- Display apparatus. S. Killmnick. 1,706,386; Mar. 19.
- Display apparatus. J. F. McVeigh. 1,729,956; Oct. 1.
- Display apparatus. J. J. Morris. 1,704,402; Mar. 5.
- Display apparatus. F. L. Peabody. 1,710,785; Apr. 30.
- Display apparatus. E. A. Seward and N. G. Martiniero. 1,705,422; Mar. 12.
- Display apparatus. E. L. Tissot. 1,701,132; Feb. 5.
- Display apparatus, Multiple. J. Niemczyk and W. Wawrzynski. Des. 78,584; May 21.
- Display apparatus, Pictorial-advertising-. G. W. Eschenbach. 1,728,402; Sept. 17.
- Display arrangement. H. F. Goulet. 1,733,406; Oct. 29.
- Display base, Jewelry-. L. Flier. Des. 78,568; May 21.
- Display board. E. L. Henderson. 1,720,328; July 9.
- Display board. W. B. Swan. 1,725,225; Aug. 20.
- Display board, Advertising. A. W. Engel. 1,741,560; Dec. 31.
- Display board, Poster-. H. A. Meyercoed. 1,721,918; July 23.
- Display book, Jeweler's imitation-gem-. C. E. Everard. 1,709,937; Apr. 23.
- Display box. E. E. Darragh. 1,701,064-5; Feb. 5.
- Display box. E. E. Darragh. 1,732,226; Oct. 22.
- Display box. T. Goldberg. 1,734,621; Nov. 5.
- Display box. R. L. Harden. 1,700,824; Feb. 5.
- Display box. M. Hoge. 1,701,157; Feb. 5.
- Display box. G. Hornecker. 1,733,503; Oct. 29.
- Display box. C. J. Oppenheimer. 1,722,013; July 23.
- Display box. H. A. Peter. 1,706,859; Mar. 26.
- Display box. J. P. Shearer. 1,735,059; Nov. 12.
- Display box, Counter. A. W. Engel. 1,705,606; Mar. 19.
- Display box, Powder-puff-. S. L. Pomerantz. Des. 78,938; July 9.
- Display bracket. C. C. Gates. 1,728,603; Sept. 17.
- Display bracket. W. K. Summerhayes, Jr. 1,733,246; Oct. 29.



- Display bracket, Adjustable metal. G. H. Binger. 1,733,001; Oct. 22.
- Display card, Folding. H. Ziemmerman. 1,710,330; Apr. 23.
- Display carton. F. Reichel. 1,741,655; Dec. 31.
- Display case. C. V. Hill. 1,732,472; Oct. 22.
- Display case. R. Menkel. 1,711,322; Apr. 30.
- Display case. S. R. Svendsgaard. 1,732,173; Oct. 15.
- Display case. J. H. Van Sickels. 1,730,100; Oct. 1.
- Display case. C. E. Wicke. Des. 77,383; Jan. 1.
- Display case. C. E. Wicke. 1,697,582; Jan. 1.
- Display case and panel, Combination merchandise. B. L. Mellinger. Des. 79,931; Nov. 19.
- Display case, Counter. L. A. Macklanburg. 1,702,215; Feb. 12.
- Display case, Merchandise. C. F. Kollman. 1,718,926; June 25.
- Display case or tray. E. B. Wilkins. 1,722,405; July 30.
- Display case, Refrigerator. C. V. Hill. 1,698,592; Jan. 8.
- Display case, Refrigerator. H. E. Pauk. 1,713,620; May 21.
- Display, Collapsible. J. J. Scherotto. 1,729,014; Sept. 24.
- Display container for foods, confections, and the like. T. Huston. Des. 79,616; Oct. 15.
- Display contrivance, Color-design. M. C. Thomas. 1,718,499; June 25.
- Display counter. V. C. McCrory. 1,702,408; Feb. 19.
- Display counter, Advertising. V. L. Bucher and J. R. Hammel. Des. 79,064; July 30.
- Display desk, Merchandise. B. W. Haberfeld. Des. 79,361; Sept. 10.
- Display device. J. S. Anderson. 1,726,605; Sept. 3.
- Display device. C. W. Arnold. 1,736,567; Nov. 19.
- Display device. H. B. Barker. 1,728,743; Sept. 17.
- Display device. H. B. Barker. 1,729,323; Sept. 24.
- Display device. R. O. Berke. 1,742,164; Dec. 31.
- Display device. H. Boehm. 1,733,003; Oct. 22.
- Display device. F. R. Chester. 1,709,607; Apr. 16.
- Display device. D. J. Coffey. 1,740,071; Dec. 17.
- Display device. E. B. Dellmuth. 1,708,055; Apr. 9.
- Display device. D. Desmond. 1,722,518; July 30.
- Display device. H. J. Echele and E. E. Kern. 1,710,973; Apr. 30.
- Display device. G. F. Egan. 1,704,561-2; Mar. 5.
- Display device. G. F. Egan. 1,719,503-5; July 2.
- Display device. G. F. Egan. 1,729,249; Sept. 24.
- Display device. E. F. Hager. 1,729,828; Oct. 1.
- Display device. W. A. Harch. 1,711,199; Apr. 30.
- Display device. G. Hornecker. 1,718,235; June 25.
- Display device. E. A. Horton. 1,728,610; Sept. 17.
- Display device. J. E. Johnson. 1,711,790; May 7.
- Display device. H. W. Jones. 1,701,236; Feb. 5.
- Display device. A. G. Kanelos. 1,720,126; July 9.
- Display device. M. A. Konikoff and H. R. Konikoff. 1,736,121; Nov. 19.
- Display device. N. Krawitz. 1,731,011; Oct. 8.
- Display device. S. M. Lafferty and H. J. Burgwin. 1,739,148; Dec. 10.
- Display device. M. Levin. 1,712,571; May 14.
- Display device. J. L. McCosh. 1,699,367; Jan. 15.
- Display device. L. V. Mooney. 1,718,429; June 25.
- Display device. R. S. Moore. 1,735,009; Nov. 12.
- Display device. C. M. Murphy. 1,718,828; June 25.
- Display device. M. J. Murphy. 1,740,520; Dec. 24.
- Display device. A. Newlander. 1,733,259; Dec. 3.
- Display device. W. C. Nicholson. 1,700,328; Jan. 29.
- Display device. A. Perling. 1,717,246; June 11.
- Display device. E. M. Peterson. 1,699,915; Jan. 22.
- Display device. E. V. Pollock. 1,722,232; July 23.
- Display device. L. C. Rau. 1,741,880; Dec. 31.
- Display device. H. E. Risser. 1,738,264; Dec. 3.
- Display device. H. M. Rose. 1,719,854; July 9.
- Display device. O. Samminiatielli. 1,711,858-9; May 7.
- Display device. O. Samminiatielli. 1,712,092; May 7.
- Display device. O. Samminiatielli. 1,712,282; May 7.
- Display device. J. J. Scherotto. 1,737,733; Dec. 3.
- Display device. S. Siegel. 1,720,531; July 9.
- Display device. J. B. Smith. 1,736,225; Nov. 19.
- Display device. A. G. Steen. 1,740,842; Dec. 24.
- Display device. G. A. Taylor. 1,698,323; Jan. 8.
- Display device. J. M. and W. H. Thompson. 1,721,934; July 23.
- Display device. H. G. Ward. 1,701,739; Feb. 12.
- Display device. J. G. Whitney. 1,726,786; Sept. 3.
- Display device. C. F. Wiebusch. 1,719,681; July 2.
- Display device. F. Zizka. 1,701,651; Feb. 12.
- Display device, Advertising. I. W. Smith. 1,735,883; Nov. 19.
- Display device, Advertising. C. P. Stam. 1,734,782; Nov. 5.
- Display device, Candy. R. C. Krueger. 1,709,080; Apr. 16.
- Display device for cartons and the like. N. A. Davidson. 1,737,077; Nov. 26.
- Display device for exhibiting jewelry, toilet articles, perfumery, and the like. Y. Amez-Droz. 1,732,214; Oct. 22.
- Display device for neckties. L. A. Chapman. 1,702,038; Feb. 12.
- Display device, Illuminated. D. D. London. 1,714,882; May 28.
- Display device, Illuminated. S. H. Snodgrass. 1,722,399; July 30.
- Display device, Mechanically-operated. A. W. Standing. 1,706,467; Mar. 26.
- Displaying device, Merchandise. L. M. Sawin. 1,711,286; Apr. 30.
- Display device, Poster. J. C. Turner and W. L. Cropper. 1,701,710; Feb. 12.
- Display device, Selective. P. E. Bradley. 1,715,737; June 4.
- Display device, Shoe. W. Weyenberg. 1,698,899; Jan. 15.
- Display device, Window. C. DeForest. 1,741,980; Dec. 31.
- Display dress and coat hanger. W. E. Kehoe. Des. 79,968-9; Nov. 26.
- Display figure or stand. W. W. Simmons. 1,732,777; Oct. 22.
- Display fixture. C. L. Brown. 1,704,821; Mar. 12.
- Display fixture. J. O. Lang and C. M. Barnett. 1,700,740; Feb. 5.
- Display fixture. F. Miadowicz. 1,729,004; Sept. 24.
- Display fixture. J. J. O'Brien. 1,736,833; Nov. 26.
- Display fixture. M. H. Wallerstein. 1,716,807; June 11.
- Display fixture, Banner. W. E. Friedman. 1,699,105; Jan. 15.
- Display folder. E. D. Browne. 1,719,648; July 2.
- Display form, Illuminated hose. H. Napier. 1,723,058; Aug. 6.
- Display form, Novelty. J. L. Wolf. 1,713,584; May 21.
- Display frame. M. Leigh. Des. 78,470; May 7.
- Display hanger, Window. F. V. Harkness. 1,706,606; Mar. 26.
- Display jar. R. P. White. 1,703,185; Feb. 26.
- Display lid. E. Brunhoff. 1,712,647; May 14.
- Display machine, Automatic. E. A. Margeson. 1,740,517; Dec. 24.
- Display means for paper boxes, Terrace. T. L. Neumann. 1,720,136; July 9.
- Display merchandising stand. C. Doering. Des. 77,400; Jan. 8.
- Display of wearing apparel. F. C. Whitlam. 1,725,435; Aug. 20.
- Display or advertising device. J. P. Udall. 1,723,534; Aug. 6.
- Display or decoration device. E. H. Horton. 1,728,166; Sept. 10.
- Display package. S. Shopflocher. 1,731,153; Oct. 8.
- Display pad for jewelry boxes and the like and method of forming the same. J. M. Shields. 1,735,061; Nov. 12.
- Display panel, Wall-paper. A. Kirk and S. L. Brierly. 1,715,164; May 28.
- Display rack. C. E. Anderson. 1,712,192; May 7.
- Display rack. J. L. Arlt. 1,700,212; Jan. 29.
- Display rack. H. S. Best. 1,720,816; July 16.
- Display rack. G. Brecht. 1,705,747; Mar. 19.
- Display rack. A. Bruning. 1,731,610; Oct. 15.
- Display rack. E. O. Bulman. 1,700,976; Feb. 5.
- Display rack. E. O. Bulman. 1,705,237; Mar. 12.
- Display rack. J. H. Burdett. Des. 79,918; Nov. 19.
- Display rack. F. K. Carmichael. 1,726,537; Sept. 3.
- Display rack. J. V. Cizek. 1,738,869; Dec. 10.
- Display rack. J. J. Cosin. Des. 78,193; Apr. 9.
- Display rack. G. E. Durell. 1,733,868; Oct. 29.
- Display rack. J. B. Franke. 1,697,235; Jan. 1.
- Display rack. F. S. Franklin. 1,731,411; Oct. 15.
- Display rack. F. W. Gibson. Des. 79,055; July 23.
- Display rack. E. H. Griffith. 1,709,822; Apr. 16.
- Display rack. A. L. Hansen. 1,697,866; Jan. 8.
- Display rack. H. Heilmann. 1,716,054; June 4.
- Display rack. J. Kim. 1,715,163; May 28.
- Display rack. H. G. Kuck. 1,716,964; June 11.
- Display rack. H. Lobel. 1,713,704; May 21.
- Display rack. J. F. McComb. Des. 78,711; June 11.
- Display rack. L. L. Ryder. 1,724,805; Aug. 13.
- Display rack. H. L. Snyder. 1,731,875; Oct. 15.
- Display rack. J. C. Zeller. 1,719,283; July 2.
- Display-rack base. M. D. Mendle. Des. 77,702; Feb. 12.
- Display rack, Collapsible. J. H. Leng. 1,713,667; May 21.
- Display rack, Food. W. H. Kamman. 1,715,603; June 4.
- Display rack for coats, costumes, and the like. S. P. Shipway. 1,703,601; Feb. 26.
- Display rack for folding tables or like articles. P. R. Chubbuck. 1,734,997; Nov. 12.
- Display rack for linoleum. E. V. Kraus. 1,701,045; Feb. 5.
- Display rack for shoes and the like. F. P. Dustan. 1,712,984; May 14.
- Display rack, Handkerchief. E. L. Hill. Des. 78,574; May 21.
- Display rack or tray. J. Tacoma and C. de Vleeschouwer. 1,707,180; Mar. 26.
- Display rack, Rotary. M. D. Mendle. 1,727,515; Sept. 10.
- Display rack, Rug. M. J. Marguardt. 1,706,069; Mar. 19.
- Display reel for holding electric-fixture cord. W. C. Mills. Des. 79,201; Aug. 13.
- Display sales rack. W. W. Kelly. 1,712,080; May 7.
- Display stand. R. U. Alexander and L. G. Larsen. 1,733,214; Oct. 29.
- Display stand. R. O. Berke. 1,707,895; Apr. 2.
- Display stand. H. S. Best. 1,720,879; July 16.
- Display stand. H. S. Best and W. E. Nesbitt. 1,734,993; Nov. 12.
- Display stand. J. Bongiovanni. Des. 77,588; Jan. 29.
- Display stand. E. Brunhoff. 1,711,585; May 7.
- Display stand. J. B. Burgess. 1,699,875; Jan. 22.
- Display stand. H. B. Curtis. 1,711,922; May 7.
- Display stand. S. Gelfand. Des. 77,684; Feb. 12.
- Display stand. P. H. Grennan. 1,703,340; Feb. 26.
- Display stand. J. G. Huye. 1,708,792; Apr. 9.
- Display stand. G. Johnson. Des. 77,776-7; Feb. 19.



- Display stand. O. W. Kearns. Des. 77,643; Feb. 5.  
 Display stand. W. E. Kehoe. Des. 78,976-7; July 16.  
 Display stand. W. E. Kehoe. Des. 79,087-88; July 30.  
 Display stand. H. R. Konikoff and G. Rabinowitz. Des. 78,823; June 25.  
 Display stand. F. W. Kramer. 1,726,990; Sept. 3.  
 Display stand. M. H. Lane. 1,713,908; May 21.  
 Display stand. M. L. Molan. 1,723,946; Aug. 6.  
 Display stand. J. J. O'Brien. 1,720,053; July 9.  
 Display stand. W. H. Ramsey. 1,704,514; Mar. 5.  
 Display stand. F. Sobel. Des. 78,316; Apr. 16.  
 Display stand. W. S. Steel and P. C. Fry. 1,722,021; July 23.  
 Display stand. A. M. Stockman. 1,737,740; Dec. 3.  
 Display stand. E. B. Weston. 1,724,385-6; Aug. 13.  
 Display stand, Advertising. C. W. Lasher, jr. 1,717,456; June 18.  
 Display stand and the like. J. Horwath. 1,713,758; May 21.  
 Display stand, Cereal-. A. F. Knudson. Des. 77,842; Feb. 26.  
 Display stand, Collapsing. O. J. Towell. 1,718,319; June 25.  
 Display-stand column. C. W. Joham. Des. 79,193; Aug. 13.  
 Display stand for doors and similar articles. A. Lobban. 1,736,823; Nov. 26.  
 Display stand for mattresses. G. P. McEntire. 1,716,862; June 11.  
 Display stand, Merchandise-. M. H. Luber. 1,719,708; July 2.  
 Display stand or the like. M. Schönberger. 1,723,892; Aug. 6.  
 Display stand, Rotary. P. R. Hammes. 1,708,759; Apr. 9.  
 Display stand, Rotary. J. E. Sharp. 1,728,512; Sept. 17.  
 Display stand, Rotatable. E. Brunhoff. 1,711,587; May 7.  
 Display stand, Shoe-. M. E. Cusick. Des. 79,956; Nov. 26.  
 Display, Step. H. Ziemmerman. 1,698,686; Jan. 8.  
 Display sticker. E. B. Langenberg. Des. 77,780; Feb. 19.  
 Display tower. M. S. Gurevich and L. J. Zahn. 1,711,528; May 7.  
 Display unit and support. W. C. Roberts. 1,738,208; Dec. 3.  
 Display vessel and hinge therefor. R. P. White. 1,740,965; Dec. 24.  
 Displaying automobiles, Device for. E. E. Farls. 1,721,335; July 16.  
 Displaying lighting fixtures, Apparatus for. H. U. Schockett and C. O. Woodworth. 1,704,953; Mar. 12.  
 Displaying scenic relief effects, Method of and apparatus for. R. M. Craig. 1,698,221; Jan. 8.  
 Disposal of sewage or other waste organic matter. C. G. Wigley. 1,730,489; Oct. 8.  
 Dissolving a mixture of hafnium and zirconium salts and for separating hafnium and zirconium. A. E. Van Arkel and J. H. de Boer. 1,718,616; June 25.  
 Distance rod. A. F. Masury. 1,720,423; July 9.  
 Distillation. E. H. Leslie. 1,730,892; Oct. 8.  
 Distillation. W. K. Lewis and N. E. Loomis. 1,697,195; Jan. 1.  
 Distillation. C. P. Tolman. 1,733,143; Oct. 29.  
 Distillation and depolymerization of liquid or liquefiable hydrocarbons, Installation and device for the. A. A. F. M. Seigle. 1,702,275; Feb. 19.  
 Distillation apparatus. A. E. Becker and J. R. Schonberg. 1,730,112; Oct. 1.  
 Distillation apparatus. M. Konter. 1,725,528; Aug. 20.  
 Distillation apparatus. C. V. McIntire. 1,733,747; Oct. 29.  
 Distillation apparatus. E. Piron. 1,733,750; Oct. 29.  
 Distillation apparatus. P. M. and E. M. Salerni. Re17,251; Apr. 2.  
 Distillation, Apparatus for. T. A. W. Dwyer. 1,703,419; Feb. 26.  
 Distillation, Apparatus for. E. Piron and V. Z. Caracristi. 1,709,370; Apr. 16.  
 Distillation apparatus, Fractional-. R. B. Chillas, jr. 1,736,845; Nov. 26.  
 Distillation apparatus, Fractional-. R. B. Chillas, jr. 1,738,036; Dec. 3.  
 Distillation, Fractional. J. Primrose. 1,707,369; Apr. 2.  
 Distillation of bituminous coal, Low-temperature. R. H. Carr and C. B. Watson. 1,698,907; Jan. 15.  
 Distillation of bituminous coal, Low-temperature. G. E. Rohmer. 1,708,740; Apr. 9.  
 Distillation of carbonizable material, Low-temperature. K. W. J. H. Jacobs. 1,721,997; July 23.  
 Distillation of heavy hydrocarbon oils, Pressure. R. E. Wilson. 1,712,187; May 7.  
 Distillation of hydrocarbon oils, Pressure. F. M. Rogers and E. J. Shaeffer. 1,697,573; Jan. 1.  
 Distillation of lubricating stock. A. G. Peterkin, jr. W. F. Stroud, jr., and R. B. Chillas. 1,710,240; Apr. 23.  
 Distillation of petroleum oils. R. W. Hanna. 1,729,215; Sept. 24.  
 Distillation process. J. C. Ryder. 1,727,380; Sept. 10.  
 Distilling and fractionating oil, Method of and apparatus for. D. G. Brandt. 1,713,255; May 14.  
 Distilling apparatus. M. F. De Bajlgethy. Re17,233; Mar. 12.  
 Distilling bituminous substances, Apparatus for. H. Koppers. 1,712,083; May 7.  
 Distilling carbonaceous material. F. Puening. 1,698,240; Jan. 8.  
 Distilling carbonaceous material. F. Puening. 1,698,347; Jan. 8.  
 Distilling carbonaceous material, Apparatus for. F. Puening. 1,698,349; Jan. 8.  
 Distilling carbonaceous materials. F. Puening. 1,698,345; Jan. 8.  
 Distilling carbonaceous materials, Apparatus for. F. Puening. 1,698,348; Jan. 8.  
 Distilling carbonaceous materials, Art of and apparatus for. F. Puening. 1,698,346; Jan. 8.  
 Distilling, cracking, and gas making and apparatus therefor, Combined process of. A. Schwarz. 1,733,135; Oct. 29.  
 Distilling hydrocarbons, Fractionally. R. T. Pollock. 1,710,068; Apr. 23.  
 Distilling liquid mixtures. D. G. Brandt. 1,713,254; May 14.  
 Distilling liquid mixtures, Apparatus for. D. G. Brandt. 1,713,256; May 14.  
 Distilling materials, Apparatus for. W. E. Trent. 1,706,421; Mar. 26.  
 Distilling mineral oil. A. E. Pew, jr. 1,707,448; Apr. 2.  
 Distilling mineral oil, Apparatus for. A. E. Pew, jr., and H. Thomas. 1,714,812; May 28.  
 Distilling oil, Apparatus for. H. S. Pettingill, jr. 1,698,507; Jan. 8.  
 Distilling oil, Apparatus for. A. Schwarz. 1,713,149; May 14.  
 Distilling oil shale, Apparatus for. K. E. Clayton-Kennedy. 1,717,786; June 18.  
 Distilling oil shale, Apparatus for. C. O. White. 1,703,413; Feb. 26.  
 Distilling solid carbonaceous material. C. Postel. 1,717,808; June 18.  
 Distilling solid carbonaceous material, Process and apparatus for. H. Koppers. 1,712,082; May 7.  
 Distilling solid carbonaceous materials. W. E. Trent. 1,706,420; Mar. 26.  
 Distilling solids, Apparatus for. E. Piron and V. Z. Caracristi. 1,709,371; Apr. 16.  
 Distilling wood, Process of and apparatus for. R. H. Twining. 1,716,745; June 11.  
 Distortion compensator. O. J. Zobel. 1,701,551; Feb. 12.  
 Distortion motor. M. A. Schwartz. 1,716,091; June 4.  
 Distributing apparatus. J. W. Allen. 1,726,603; Sept. 3.  
 Distributing device. J. R. Lévy. 1,735,504; Nov. 12.  
 Distributing device. J. MacGregor. 1,722,305; July 30.  
 Distributing device. T. F. Pigott. 1,724,309; Aug. 13.  
 Distributing device for liquids. H. Boutillon. 1,739,437; Dec. 10.  
 Distributing pulverized fuel, Method of and apparatus for. G. W. Denison. 1,741,184; Dec. 31.  
 Distributing system. M. W. Thompson. 1,720,106; July 9.  
 Distribution of load between Leonard drives, Maintaining. A. K. Bushman. 1,708,870; Apr. 9.  
 Distribution of pulverulent material from aircraft. H. Junkers. 1,732,406; Oct. 22.  
 Distribution system. T. F. Barton. 1,734,890; Nov. 5.  
 Distribution system. H. D. Brown and C. A. Sabbah. 1,722,194; July 23.  
 Distribution system. E. M. Hewlett. 1,717,211; June 11.  
 Distribution system. C. R. Martin. 1,735,690; Nov. 12.  
 Distribution system. H. V. Nye. 1,706,807; Mar. 26.  
 Distribution system. D. C. Prince. 1,717,581; June 18.  
 Distribution system. M. E. Reagan. 1,706,705; Mar. 26.  
 Distribution, System of. A. H. Mittag. 1,699,153; Jan. 15.  
 Distributor. E. A. Bohlman. 1,698,710; Jan. 15.  
 Distributor. E. A. Bohlman. 1,721,727; July 23.  
 Distributor. P. Brown. 1,740,452; Dec. 24.  
 Distributor. J. A. Kenney. 1,719,770; July 2.  
 Distributor. T. G. Louis. 1,722,703; July 30.  
 Distributor. L. B. Sauer. 1,717,854; June 18.  
 Distributor. L. B. Sauer. 1,724,682; Aug. 13.  
 Distributor. L. B. Sauer and G. A. Yanochowski. 1,723,378; Aug. 6.  
 Distributor, Air. C. A. Walouke. 1,714,649; May 28.  
 Distributor drive. J. C. Bohmker. 1,738,168; Dec. 3.  
 Distributor for asphalt and the like. E. B. Neal. 1,725,412; Aug. 20.  
 Distributor for blast furnaces. H. L. Wetherbee. 1,704,715; Mar. 12.  
 Distributor for filling silos, Ensilage. A. W. Johnson. 1,729,341; Sept. 24.  
 Distributor plate. J. F. Martin. 1,739,555; Dec. 17.  
 Disturbance eliminator. V. Kulebakin. 1,732,607; Oct. 22.  
 Ditch check. T. M. Jones. 1,713,605; May 21.  
 Ditch guard. M. Wyckoff. 1,699,828; Jan. 22.  
 Ditch light, Movable. E. O. Bennett. 1,729,473; Sept. 24.  
 Ditcher carrier. G. T. Ronk. 1,698,172; Jan. 8.  
 Ditcher or spreader for railroad work. W. Ferris and M. J. Woodhull. 1,718,550; June 25.  
 Ditcher-scoop assembly. R. R. Downie. 1,709,466; Apr. 16.  
 Ditching and leveling machine. F. J. Leydecker. 1,707,062; Mar. 26.  
 Ditching machine. C. L. George. 1,714,306; May 21.  
 Ditching machine. J. F. Sincok and W. F. Bogenhagen. 1,701,826; Feb. 12.  
 Ditching machines and their carrier cars, Operating mechanism for. G. T. Ronk. 1,726,771; Sept. 3.  
 Ditching machines, Counterbalance for. G. T. Ronk. 1,718,434; June 25.  
 Dithiocarbamates and making same, Substituted. S. M. Cadwell. 1,726,646-8; Sept. 3.



- Ditolylguanidine, Making. J. Young. 1,727,916; Sept. 10.  
 Dividing or cutting fruits and the like, Apparatus for. R. F. MacFarlane. 1,735,174; Nov. 12.  
 Dividing strip. P. Galassi. 1,715,193; May 28.  
 Dividing strip for cement flooring. B. D. Traitel. 1,723,825; Aug. 6.  
 Diving apparel adapted to withstand high pressure. K. Hipssich. 1,722,375; July 30.  
 Document device, Coin-controlled. P. D. Bell. 1,719,497; July 2.  
 Dogging device. G. F. Schnell. 1,712,311; May 7.  
 Dogging mechanism, Power-operated. E. H. Percy. 1,713,350; May 14.  
 Dolly. E. Karfiol. Des. 77,555; Jan. 22.  
 Dolly. E. Karfiol. Des. 78,029; Mar. 19.  
 Dolly, Lace. B. A. Ball. Des. 78,254-5; Apr. 16.  
 Dolly, Paper. F. A. Conrad. Des. 77,813; Feb. 26.  
 Dolly, Paper. W. J. MacPhaul. Des. 77,905; Mar. 5.  
 Doll. S. Adler. Des. 79,350; Sept. 10.  
 Doll. G. Q. Armstrong. Des. 78,803; June 25.  
 Doll. M. Averill. Des. 78,324; Apr. 23.  
 Doll. O. J. Cacharellis. Des. 77,810; Feb. 26.  
 Doll. E. W. De Huff. Des. 77,938; Mar. 12.  
 Doll. I. A. Dirk. Des. 77,354; Jan. 1.  
 Doll. H. L. Gibson. Des. 79,800; Nov. 5.  
 Doll. S. Gold and L. B. Conduit. Des. 77,687; Feb. 12.  
 Doll. B. E. Lloyd. 1,730,854; Oct. 8.  
 Doll. M. N. Neugass. Des. 78,957; July 9.  
 Doll. I. H. Paine. Des. 77,430; Jan. 8.  
 Doll. W. Stanyo. Des. 77,565-6; Jan. 22.  
 Doll. L. W. Wildfish. Des. 79,116-7; July 30.  
 Doll, Animal. F. P. Kempf. Des. 78,356; Apr. 23.  
 Doll, Animated. H. C. Scott. 1,721,577; July 23.  
 Doll, Automaton. S. Tadakuma. 1,732,197; Oct. 15.  
 Doll bell. I. W. Schmitz. Des. 79,267; Aug. 20.  
 Doll construction. S. Berger. 1,707,504; Apr. 2.  
 Doll construction. J. Glowa and H. E. Chiet. 1,702,208; Feb. 12.  
 Doll, Dressed rabbit. E. E. Vaught. Des. 79,539; Oct. 1.  
 Doll eyes. A. Beyler. 1,721,369; July 16.  
 Doll eyes. S. Marcus. 1,740,660; Dec. 24.  
 Doll eyes. B. B. McCrosky. 1,729,729; Oct. 1.  
 Doll for instruction in color. L. C. Van Cleave. 1,730,177; Oct. 1.  
 Doll heads, Making. L. J. Grubman. 1,704,829; Mar. 12.  
 Doll, Moving. Y. Ikeda. 1,705,863; Mar. 19.  
 Doll or similar article. A. Gramlich. Des. 80,030; Dec. 3.  
 Doll, Stocking. C. C. Poole. 1,698,653; Jan. 8.  
 Dolls, Attachment for. M. M. Ivey. 1,725,919; Aug. 27.  
 Doll's eye. I. A. Rommer. 1,711,481; Apr. 30.  
 Dolls, Voice mechanism for. A. Petrov. 1,698,143; Jan. 8.  
 Dolls, Voice-producing device for. A. Petrov. 1,698,142; Jan. 8.  
 Dolly for washing machines. J. Locke. 1,706,413; Mar. 26.  
 Dolphin pile. H. Oberschulte. 1,722,674; July 30.  
 Dome closure, Tank-car. C. I. Hummer. 1,699,533; Jan. 22.  
 Dome dam, Multiple. C. R. Olberg. 1,708,452; Apr. 9.  
 Dome, Tank. C. I. Hummer. 1,706,064; Mar. 19.  
 Dome with condensing arrangement, Centrifugal. C. Schmitz. 1,734,533; Nov. 5.  
 Domestic appliance. R. L. Lee. 1,699,598-9; Jan. 22.  
 Domestic appliance. R. L. Lee. 1,721,565; Jan. 23.  
 Domestic appliance. R. L. Lee. 1,725,762; Aug. 27.  
 Domestic boiler. C. H. Maxwell and C. C. Himes. 1,704,916; Mar. 12.  
 Door. A. S. Barrows. 1,698,118; Jan. 8.  
 Door. W. H. Camfield. 1,740,572; Dec. 24.  
 Door. O. L. Dautrick. 1,706,442; Mar. 26.  
 Door. J. F. O'Rourke. 1,738,792; Dec. 10.  
 Door. C. C. Stone. 1,698,568; Jan. 8.  
 Door. C. C. White. 1,719,638; July 2.  
 Door, Access. R. Ferris. 1,716,038; June 4.  
 Door-actuating mechanism, Elevator. W. C. Miles. 1,712,089; May 7.  
 Door, Adjustable shower. D. Fox. 1,724,186; Aug. 13.  
 Door and brake control device. S. G. Down. 1,710,047; Apr. 23.  
 Door and cushion therefor. A. S. Campbell. 1,712,472; May 7.  
 Door and door-frame construction. B. J. Triller. 1,732,735; Oct. 22.  
 Door and door-frame structure for ovens. B. C. Zuhars. 1,709,105; Apr. 16.  
 Door and hinge therefor, Oven. W. D. Antrim. 1,732,077; Oct. 15.  
 Door and supporting means therefor, Flush car. K. J. Tobin and W. W. Darrow. 1,734,755; Nov. 5.  
 Door and window, Ball-bearing. M. Polacoff. 1,724,723; Aug. 13.  
 Door and window structure. C. E. Stevens. 1,740,124; Dec. 17.  
 Door arrangement, Bulkhead. T. V. McDonald. 1,725,094; Aug. 20.  
 Door arrangement, Tent. C. B. Leffert. 1,704,945; Mar. 12.  
 Door-assembling machine. H. Malarkey. 1,723,050; Aug. 6.  
 Door assembly. M. H. Toncray. 1,705,741; Mar. 19.  
 Door attachment. J. P. Matthews. 1,738,381; Dec. 3.  
 Door attachment. H. W. Smith. 1,729,902; Oct. 1.  
 Door attachment, Furnace. F. B. Cowdrick. 1,736,521; Nov. 19.  
 Door, Automatically-operated explosion. H. F. Dissel. 1,735,238; Nov. 12.  
 Door, Automobile. J. Ledwinka. 1,701,574; Feb. 12.  
 Door, Automobile. E. A. Wetzel. 1,736,867; Nov. 26.  
 Door, Auxiliary. L. J. Walsh. 1,715,154; May 28.  
 Door bolt, Safety. C. A. Griffith. 1,701,302; Feb. 5.  
 Door, Cast-steel bottom-drop. A. Withall. 1,723,318; Aug. 6.  
 Doorcheck. P. E. Breneman. 1,696,936; Jan. 1.  
 Doorcheck. A. B. Clark. 1,700,558; Jan. 29.  
 Doorcheck. E. Danner. 1,730,646; Oct. 8.  
 Doorcheck. D. Dudley. 1,701,202; Feb. 5.  
 Doorcheck. J. B. Kennerson. 1,736,602; Nov. 19.  
 Doorcheck. E. D. Phinney. 1,733,514; Oct. 29.  
 Doorcheck. C. Rosenthal and H. M. Armistead. 1,704,217; Mar. 5.  
 Doorcheck. C. Rosenthal, H. McL. Armistead, and J. W. Guiberson. 1,736,175; Nov. 19.  
 Doorcheck. R. A. Sherwood. 1,700,086; Jan. 22.  
 Doorcheck. H. W. Shonnard. 1,738,123; Dec. 3.  
 Doorcheck. M. H. Toncray. 1,735,024; Nov. 12.  
 Doorcheck. J. C. Vance. 1,724,458; Aug. 13.  
 Doorcheck. W. V. Webster. 1,711,626; May 7.  
 Doorcheck. O. E. Weitz. 1,723,392; Aug. 6.  
 Door check and closer, Combined. W. Price. 1,737,093; Nov. 26.  
 Doorcheck and similar device. C. Marcus. 1,705,823; Mar. 19.  
 Door check and tightener. R. C. Broadstone. 1,740,329; Dec. 17.  
 Doorcheck, automatic latch, and night hook. L. Q. Hoen. 1,699,189; Jan. 15.  
 Door check or stop. A. C. Earhart. 1,714,950; May 28.  
 Door check or stop. A. C. Earhart. 1,716,265; June 4.  
 Door closer. J. W. Hornberger. 1,708,365; Apr. 9.  
 Door closer. R. S. Potter. 1,719,781; July 2.  
 Door closer. C. Rosenthal and H. McL. Armistead. 1,730,948; Oct. 8.  
 Door closer and check. B. S. Bernhard. 1,711,826; May 7.  
 Door closer and check, Spring. M. B. Burnham. 1,712,914; May 14.  
 Door closer, Automatic. M. W. Otto. 1,705,334; Mar. 12.  
 Door closer, Automatic. M. W. Otto. 1,714,887; May 28.  
 Door-closing device, Automatic. A. T. Campbell and M. C. Heinemann. 1,731,561; Oct. 15.  
 Door closures, Operating and control mechanism for. P. J. Dugan. 1,698,362; Jan. 8.  
 Door, Combination screen and storm. O. V. Nelson. 1,714,920; May 28.  
 Door, Compartmental service. F. J. Moss. 1,738,539; Dec. 10.  
 Door compensator, Press-box. L. W. Campbell. 1,741,284; Dec. 31.  
 Door construction. J. H. Bourgon. 1,699,560; Jan. 22.  
 Door construction. W. Marshall. 1,717,238; June 11.  
 Door construction. L. A. McDowell. 1,720,913; July 16.  
 Door construction. V. W. Sipes. 1,700,184; Jan. 29.  
 Door construction. A. Steffen, jr. 1,704,411; Mar. 5.  
 Door construction. P. W. Sullivan. 1,697,517; Jan. 1.  
 Door construction, All-metal. W. Marshall. 1,708,448; Apr. 9.  
 Door construction, Automobile. G. Tasman. 1,741,384; Dec. 31.  
 Door construction, Car. W. E. Wine. 1,712,188; May 7.  
 Door construction, Fire. R. C. Mahon. 1,710,741; Apr. 30.  
 Door construction, Fire. L. S. Swearingin. 1,724,052; Aug. 13.  
 Door construction for washing machines. J. Maki. 1,700,706; Jan. 29.  
 Door construction, Garage. W. D. Ferris. 1,727,370; Sept. 10.  
 Door construction, Oven. H. W. O'Dowd. 1,735,652-3; Nov. 12.  
 Door construction, Railway-car. H. H. Henrichs. 1,730,144; Oct. 1.  
 Door construction, Side. K. J. Tobin and W. W. Darrow. 1,703,971; Mar. 5.  
 Door construction, Sliding and swinging grain and car. W. L. Officer. 1,709,278; Apr. 16.  
 Door construction, Stove. A. H. Tinnerman. 1,708,455; Apr. 9.  
 Door control. C. A. Hennicks. 1,704,476; Mar. 5.  
 Door-control appliance. H. Trenkamp. 1,735,661; Nov. 12.  
 Door control, Cotton-press. B. C. Woodford. 1,697,672; Jan. 1.  
 Door-control device for elevators, Automatic. T. Eskills. 1,717,197; June 11.  
 Door control device, Self-locking. O. A. Moldenhauer. 1,740,951; Dec. 24.  
 Door-control means for elevators. H. W. Shonnard. 1,716,569; June 11.  
 Door-control mechanism, Garage. M. Mattson. 1,723,052; Aug. 6.  
 Door-control system, Elevator. T. Brady. 1,738,686; Dec. 10.  
 Door controlling and similar device. R. P. Lansing. 1,705,820; Mar. 19.  
 Door-controlling mechanism, Fire. G. W. Drew. 1,739,632; Dec. 17.  
 Door, Convertible screen. J. L. Carrigan. 1,716,764; June 11.  
 Door device. W. E. Wine. 1,699,386; Jan. 15.



- Door draft stop, Automatic. W. J. Dennis. 1,699,611; Jan. 22.
- Door, Dumb-waiter. P. R. Saurer. 1,718,257; June 25.
- Door, Dump-car. O. D. Oliver. 1,706,936; Mar. 26.
- Door, Duplex. J. R. De Haven. 1,742,027; Dec. 31.
- Door, Elevator. C. W. Peelle. 1,704,901; Mar. 12.
- Door, Elevator. R. S. Peelle. 1,708,953; Apr. 16.
- Door, Elevator. J. A. Schweig. 1,709,595; Apr. 16.
- Door extractor. I. D. Thomas. 1,724,861; Aug. 13.
- Door, Fireproof. J. L. Davidson. 1,740,888; Dec. 24.
- Door, Fireproof. J. R. McGranaghan. 1,711,289; Apr. 30.
- Door, Fireproof. E. E. Perkins. 1,725,931; Aug. 27.
- Door fitting, Sliding. C. E. Eklind and W. W. Darrow. 1,737,227; Nov. 26.
- Door, Flush car. K. J. Tobin and A. Wasberg. 1,720,933; July 16.
- Door for automobile cars, End. G. G. Gilpin. 1,696,910; Jan. 1.
- Door for automobile cars, End. G. G. Gilpin. 1,713,898; May 21.
- Door for automobile inclosures, Half. C. E. Ruttan. 1,711,857; May 7.
- Door for banks, Automatically-closing. E. Dabrowski. 1,699,281; Jan. 15.
- Door for buildings, Theft-protection. E. C. Hall. 1,698,994; Jan. 15.
- Door for cars, Grain. F. M. Bailey. 1,704,420; Mar. 5.
- Door for compressors. B. L. Shoemaker. 1,721,839; July 23.
- Door for dump-car bodies. A. C. Schmolh. 1,699,408; Jan. 15.
- Door for elevators, Grain. W. A. Blakely. 1,728,851; Sept. 17.
- Door for freight cars. E. Foss. 1,734,370; Nov. 5.
- Door for hangars and other structures. A. Rush. 1,736,133; Nov. 19.
- Door for hopper cars. A. Kassler. 1,706,067; Mar. 19.
- Door for kitchen cabinets. E. M. Trammel. 1,716,394; June 11.
- Door for multiple mail receptacles. C. H. Gaffner and E. L. Jones. 1,719,541; July 2.
- Door for railway cars and the like, Dumping. A. Campbell. 1,705,804; Mar. 19.
- Door for railway cars and the like, Ventilating. E. E. Rombauer. 1,720,858; July 16.
- Door for railway cars, Drop. A. E. Small. 1,710,715; Apr. 30.
- Door for railway cars, Hopper. A. E. Small. 1,715,012; May 28.
- Door for vehicles, Extensible. J. Ledwinka. 1,709,941; Apr. 23.
- Doorframe. I. A. Baum. 1,720,201; July 9.
- Door frame, Composite. I. A. Baum. 1,723,991; Aug. 13.
- Doorframe, Knockdown. B. Levy. 1,723,281; Aug. 6.
- Door frame, Metallic. W. J. Gross. 1,731,459; Oct. 15.
- Door framing. I. A. Baum. 1,737,403; Nov. 26.
- Door, Garage. O. L. Dautrick. 1,724,995; Aug. 20.
- Door, Garage. F. Premo. 1,737,892; Dec. 3.
- Door, Grain. F. L. Martin, E. F. Hughes, and J. C. McNellis. 1,707,064; Mar. 26.
- Door, Grain-car. E. C. Coverston. 1,732,966; Oct. 22.
- Door, Grain-car. H. I. Hake. 1,721,112; July 16.
- Door, Grain-car. W. C. Lantz. 1,731,672; Oct. 15.
- Door, Grain-car. W. H. Plath. 1,732,378; Oct. 22.
- Door, Grain-car. R. F. White. 1,736,894; Nov. 26.
- Door guard. F. W. Derbyshire. 1,722,736; July 30.
- Door handle. A. H. Brodbeck. Des. 80,162; Dec. 24.
- Door handle. W. C. Devereaux. Des. 77,747; Feb. 19.
- Door handle. W. C. Devereaux. Des. 77,750; Feb. 19.
- Door hanger. C. E. Bell. 1,728,954; Sept. 24.
- Door hanger. M. Burstein. 1,722,731; July 30.
- Door hanger. I. C. Laury. 1,733,887; Oct. 29.
- Door hanger. F. H. McTigue. 1,739,557; Dec. 17.
- Door hanger. H. W. Shonnard. 1,702,799; Feb. 19.
- Door hanger. C. H. Wiebold. 1,709,698; Apr. 16.
- Door hanger, Elevator. T. J. Osinga. 1,709,279; Apr. 16.
- Door, Henhouse. G. I. Arnold. 1,722,620; July 30.
- Door-holding device. C. F. Wheaton. 1,711,190; Apr. 30.
- Door, House-car end. K. F. Nystrom. 1,735,617; Nov. 12.
- Door, Incinerator. E. H. Graver. 1,704,969; Mar. 12.
- Door, Incinerator. E. O. Howle. 1,701,499; Feb. 12.
- Door, Inspection. M. Liptak. 1,729,948; Oct. 1.
- Door interlock, Car. J. C. McCune. 1,723,192; Aug. 6.
- Door jamb. I. S. Finley. 1,718,813; June 25.
- Door knob. A. Robb. 1,711,209; Apr. 30.
- Door knob construction. O. Petermann. 1,731,935; Oct. 15.
- Door knocker. H. S. McGillivray. Des. 78,401; Apr. 30.
- Door latch. C. F. Geschickter. 1,704,316; Mar. 5.
- Door-latch assembly. W. C. Devereaux. 1,702,110; Feb. 12.
- Door-lifting device, Track. R. E. Jones and O. F. Baltzley. 1,732,164; Oct. 15.
- Door lock. F. G. Darlington. 1,732,433; Oct. 22.
- Door lock. J. W. Dodd. 1,718,456; June 25.
- Door lock. P. R. Forman. 1,737,414; Nov. 26.
- Door lock. C. Jakopec and V. Schwarz. 1,702,211; Feb. 12.
- Door lock. E. J. Jones. 1,715,926; June 4.
- Door lock. C. S. Klump. 1,715,505; June 4.
- Door lock. L. F. Knowles. 1,697,569; Jan. 1.
- Door lock. W. Marshall and E. C. De Smet. 1,710,231; Apr. 23.
- Door lock. L. T. Mayea. 1,740,827; Dec. 24.
- Door lock. E. G. Morin, Jr. 1,701,790; Feb. 12.
- Door lock. F. M. Nelson. 1,723,064; Aug. 6.
- Door lock. K. A. Pendleton. 1,707,413; Apr. 2.
- Door lock. H. O. Rivers. 1,705,376; Mar. 12.
- Doorlock. J. A. Rymer. 1,734,149; Nov. 5.
- Door lock. E. L. Wilson. 1,719,282; July 2.
- Doorlock, Combination. S. Cohen. 1,728,903; Sept. 17.
- Door lock, Dump-car. R. E. McGahey. 1,714,797; May 28.
- Door lock, Electrical. C. Hafner. 1,736,761; Nov. 19.
- Door lock, Locker. F. H. Hart. 1,739,510; Dec. 17.
- Door, Locker. W. Isler. 1,724,185; Aug. 13.
- Door-locking device, Car. B. W. Kadel. 1,738,057; Dec. 3.
- Door mechanism, Car. E. C. Ellis and P. Maddox. 1,729,375; Sept. 24.
- Door mechanism, Car. C. Hankins. 1,717,382; June 18.
- Door mechanism, Car. B. W. Kadel. 1,733,736; Oct. 29.
- Door mechanism, Car. W. E. Wine and B. W. Kadel. 1,704,158; Mar. 5.
- Door mechanism, Car. W. E. Wine. 1,729,370; Sept. 24.
- Door mechanism, Cotton-press. W. L. Hancock. 1,706,663; Mar. 26.
- Door, Mill-type. J. W. Orrock. 1,710,108; Apr. 23.
- Door mounting. M. J. Tracy. 1,731,801; Oct. 15.
- Door mounting, Car. H. H. Henricks. 1,730,143; Oct. 1.
- Door of metallic cabinet and catch therefor. A. E. Blackman. 1,718,026; June 18.
- Door opener and closer. W. G. Miller. 1,732,025; Oct. 15.
- Door opener, Garage. M. J. Lewis. 1,722,670; July 30.
- Door-opening device, Garage. N. K. Nielsen. 1,732,585; Oct. 22.
- Door-opening device, Garage. T. C. Sharp. 1,740,877; Dec. 24.
- Door-opening mechanism. P. J. Tracy. 1,716,156; June 4.
- Door-operated switch. J. E. Beauchamp. 1,716,998; June 11.
- Door operating and locking device. F. A. Boedtscher. 1,714,761; May 28.
- Door-operating apparatus. C. C. Cox. 1,700,433; Jan. 29.
- Door-operating device. A. A. Cashman. 1,716,684; June 11.
- Door-operating device. F. E. Ingraham. 1,740,350; Dec. 17.
- Door-operating device. L. F. Schoelkopf. 1,716,707; June 11.
- Door-operating device for elevators. E. M. Bouton. 1,735,153; Nov. 12.
- Door-operating device, Power-actuated. L. D. Friel and F. T. Harding. 1,697,272; Jan. 1.
- Door-operating means. H. Rowntree. 1,702,577; Feb. 19.
- Door-operating mechanism. H. C. Bosserdet. 1,712,786; May 14.
- Door-operating mechanism. T. Brady. 1,714,460; May 21.
- Door-operating mechanism. P. R. Dobson. 1,723,503; Aug. 6.
- Door-operating mechanism. H. Fuchs. 1,720,173; July 9.
- Door-operating mechanism. W. A. Geiger. 1,703,306; Feb. 26.
- Door-operating mechanism. W. A. Geiger. 1,720,726; July 16.
- Door-operating mechanism. S. B. Haseltine. 1,703,307; Feb. 26.
- Door-operating mechanism. S. B. Haseltine. 1,730,206; Oct. 1.
- Door-operating mechanism. S. B. Haseltine. 1,738,702; Dec. 10.
- Door-operating mechanism. S. B. Haseltine. 1,741,627; Dec. 31.
- Door-operating mechanism. W. H. Ling. 1,697,125; Jan. 1.
- Door-operating mechanism. J. F. Petersen. 1,698,652; Jan. 8.
- Door-operating mechanism. T. L. Ross. 1,721,473; July 16.
- Door-operating mechanism. H. W. Shonnard. 1,712,122; May 7.
- Door-operating mechanism. F. F. Turner and J. A. Brubaker. 1,707,648; Apr. 2.
- Door-operating mechanism. G. Webb and F. D. Jenks. 1,737,902; Dec. 3.
- Door-operating mechanism, Car. A. F. O'Connor. 1,731,316; Oct. 15.
- Door-operating mechanism, Car. A. E. Zimmer. 1,705,952; Mar. 19.
- Door-operating mechanism, Dump-car. A. Campbell. 1,705,806; Mar. 19.
- Door-operating mechanism for refrigerator cars. S. B. Haseltine. 1,720,125; July 9.
- Door-operating mechanism, Refrigerator. J. E. Lindeman. 1,707,358; Apr. 2.
- Door-operating mechanism, Refrigerator. S. J. Strid. 1,713,932; May 21.
- Door-operating mechanism, Refrigerator-car. T. R. Wear. 1,737,627; Dec. 3.
- Door-operating mechanism, Swing. J. A. Brubaker. 1,736,390; Nov. 19.
- Door-operating system. H. Rowntree. 1,737,433; Nov. 26.
- Door operator. J. A. Marzoff. 1,736,931; Nov. 26.
- Door operator, Adjustable. H. W. Shonnard. 1,716,567; June 11.
- Door, Oven. A. R. Ross. 1,737,176; Nov. 26.
- Door, Oven. S. A. Wilde. 1,737,134; Nov. 26.
- Door, Overhead garage. J. H. McKee. 1,721,501; July 23.
- Door, Overhead garage. J. H. McKee. 1,722,250; July 23.
- Door peep. K. Bauer. 1,737,291; Nov. 26.
- Door-pocket band. H. J. Gordon. 1,715,702; June 4.



- Door, Railway-box-car side. A. E. Small. 1,707,238-9; Apr. 2.
- Door, Railway-car drop. A. E. Small. 1,710,716; Apr. 30.
- Door, refrigerator. C. C. Probert. 1,698,509; Jan. 8.
- Door, Refrigerator. R. A. Riek. 1,698,924; Jan. 15.
- Door, Safe and vault. R. A. and J. F. Cramer. 1,716,426; June 11.
- Door-securing device. P. R. Drenning. 1,697,557; Jan. 1.
- Door-securing mechanism. P. R. Drenning. 1,728,530; Sept. 17.
- Doorset, Automatic. W. F. Kanold. 1,730,660; Oct. 8.
- Door, Sheet-metal. W. B. Gervais. 1,712,107; May 7.
- Door, Sheet-metal. B. J. Goldsmith and E. Kolb. 1,714,979; May 28.
- Door, Shelf and rack. W. N. Vance. 1,709,504; Apr. 16.
- Door, Shower-stall. L. H. Lehman. 1,708,545; Apr. 9.
- Door, Sidewalk. L. J. Dame. 1,715,903; June 4.
- Door, Sidewalk. C. Holtz. 1,724,023; Aug. 13.
- Door sill. H. E. Bricker. 1,729,243; Sept. 24.
- Door, Sliding. T. H. Cromer. 1,698,675; Jan. 8.
- Door, Sliding. J. A. Lewis. 1,697,772; Jan. 1.
- Door spotting device for washing machines, Automatic. F. J. Couch. 1,718,191; June 18.
- Door, Steam-operated fire. R. H. Shepard. 1,723,662; Aug. 6.
- Door stile for automobile bodies. A. J. Fisher. 1,711,310; Apr. 30.
- Doorstop. W. I. Allison. 1,701,652; Feb. 12.
- Doorstop. T. Bovey. 1,706,995; Mar. 26.
- Doorstop. E. G. De Poe. 1,698,944; Jan. 15.
- Doorstop. R. M. Pickard. Des. 79,937-8; Nov. 19.
- Doorstop. R. M. Pickard. Des. 79,982; Nov. 26.
- Door stopper, Vault-. A. H. Johnsen. 1,707,481-2; Apr. 2.
- Door, Stove. P. A. Celander. Des. 78,377; Apr. 30.
- Door strip, Movable. H. H. Woodham. 1,716,097; June 4.
- Door structure. R. C. Stewart and W. A. Duff. 1,703,795; Feb. 26.
- Door structure. W. P. Gaiser. 1,729,825; Oct. 1.
- Door structure, Car-. K. Edahl. 1,711,142; Apr. 30.
- Door structure, Disappearing. E. Morris and A. Vanderfeld. 1,720,050; July 9.
- Door-supporting mechanism. G. A. Suckfield. 1,699,860; Jan. 22.
- Door-supporting vise. T. S. Smith and J. P. Bird. 1,715,722; June 4.
- Door, Vault. J. A. Fellows. 1,715,191; May 28.
- Door, Vault. B. T. Giardini. 1,712,000; May 7.
- Door, Vehicle. G. E. Grimm. 1,708,616; Apr. 9.
- Door, Vehicle. C. E. Jeffers. 1,712,562; May 14.
- Door, Vehicle. F. M. Small. 1,712,588; May 14.
- Door, Warehouse. R. S. Peelle. 1,709,872; Apr. 23.
- Door, Wire. J. Z. Winder. 1,711,513; May 7.
- Doors, Actuating mechanism for full-automatic elevator. R. S. Peelle. 1,715,382; June 4.
- Doors, Controlling the movements of. W. B. Crowell and C. W. Bassett. 1,714,160; May 21.
- Doors, Dovetail construction for vehicle. J. Ledwinka. 1,701,623; Feb. 12.
- Doors, Hinged. R. V. Harty. 1,724,652; Aug. 13.
- Doors, Lock for multiple. J. Sandholdt, jr. 1,724,424; Aug. 13.
- Doors, Making. H. C. Morris. 1,703,452; Feb. 26.
- Doors, Observation opening for. H. Sawyer. 1,701,987; Feb. 12.
- Doors of vehicles, Fastening of emergency exit. E. J. D. Buckney. 1,704,164; Mar. 5.
- Doors, Opening and closing device for box-car. W. J. Scantlin. 1,714,632; May 28.
- Doors, Operating device for. A. W. Walker. 1,721,578; July 23.
- Doors, Operating elevator. P. Lang. 1,722,332; July 30.
- Dose, Distributor. G. H. Ennis. 1,725,979; Aug. 27.
- Doser. M. O. Schur. 1,729,312; Sept. 24.
- Dosing mixtures, Apparatus and method for preparing and proportioning. W. H. Green. 1,722,571; July 30.
- Doses of powdered or granular substances, Apparatus for delivering measured. G. Haas. 1,725,913; Aug. 27.
- Double-acting motor. G. J. Lugt. 1,739,644; Dec. 17.
- Double bull hook. S. B. Stewart. 1,699,381; Jan. 15.
- Double-end tenoner. J. H. Mansfield and C. A. Wiken. 1,711,275; Apr. 30.
- Double-exposure method, Simplified. M. Handschlegl. 1,697,315; Jan. 1.
- Double-lift jack. M. B. Lucker. Re17,527; Dec. 17.
- Double-pointed pin. D. I. Reiter. 1,724,418; Aug. 13.
- Double-rack jack. J. A. Adell. 1,719,955; July 9.
- Double-sheave wheel. G. W. Curtis. 1,735,602; Nov. 12.
- Double-throw switch. J. C. Stearns. 1,718,717; June 25.
- Doubling, winding, and measuring cloth, Machine for. C. G. Richardson. 1,717,120; June 11.
- Dough blender. E. L. Dennis. 1,735,236; Nov. 12.
- Dough composition and making the same. J. R. White. 1,729,409; Sept. 24.
- Dough-cooking apparatus. W. Ehrhart. 1,737,363; Nov. 26.
- Dough cutter. C. P. Carney. 1,727,747-8; Sept. 10.
- Dough cutter. J. Jarosz. 1,720,839; July 16.
- Dough-cutting machine. F. Gathmann. 1,735,111; Nov. 12.
- Dough-cutting machine. R. Scholz. 1,720,097; July 9.
- Dough deflector. C. E. Quick. 1,727,672; Sept. 10.
- Dough divider. W. S. Amidon. 1,727,091; Sept. 3.
- Dough divider. C. L. Russell. 1,704,903; Mar. 12.
- Dough divider. F. Streich. 1,738,935; Dec. 10.
- Dough divider. F. H. Van Houten. 1,703,126; Feb. 26.
- Dough divider. F. H. Van Houten. 1,740,049; Dec. 17.
- Dough dividing and working machine. W. Mohr. 1,721,083; July 16.
- Dough-dripping device. L. Blumenthal. 1,701,293; Feb. 5.
- Dough kneading and mixing machine. F. Aeschbach. 1,714,066; May 21.
- Dough-kneading machine. F. Mariani. 1,731,584; Oct. 15.
- Dough mixer. F. X. Lauterbur. 1,716,701; June 11.
- Dough mixer. F. X. and E. J. Lauterbur. 1,722,475; July 30.
- Dough mixer. F. X. and E. J. Lauterbur. 1,726,033; Aug. 27.
- Dough mixer. M. J. Oches. 1,700,510; Jan. 29.
- Dough mixer, Power. A. J. Graf. 1,715,232; May 28.
- Dough, Mixing. J. E. Wihlfahrt. 1,725,036; Aug. 20.
- Dough molder. W. G. Kirchhoff. 1,740,024; Dec. 17.
- Dough-molding machine. F. X. and E. J. Lauterbur. 1,729,674; Oct. 1.
- Doughnut-handling machine. P. Kapfhammer. 1,724,500; Aug. 13.
- Doughnut machine. W. Belshaw. 1,738,033; Dec. 3.
- Doughnut mold. A. L. Bedel. Des. 77,875; Mar. 5.
- Doughnut shaping and feeding machine. N. N. Smith. 1,703,434; Feb. 26.
- Dough roller. P. Samard. 1,732,142; Oct. 15.
- Dough roller. D. W. Smith. 1,728,703; Sept. 17.
- Dough-rolling machine. D. W. Smith. 1,699,815; Jan. 22.
- Dough-sheeting machine and the like. G. R. Baker and J. C. Peterson. 1,737,349; Nov. 26.
- Dowel driver and setter. J. E. Wakeman. 1,717,479; June 18.
- Dowel for woodwork and the like. C. D. McArthur. 1,724,610; Aug. 13.
- Draft and exhaust regulating means. J. N. Edwards. 1,700,789; Feb. 5.
- Draft attachment for agricultural implements. W. L. Paul. 1,702,615; Feb. 19.
- Draft control, Stack. C. H. Quinn. 1,725,888; Aug. 27.
- Draft device. E. M. Cole. 1,709,462; Apr. 16.
- Draft device. L. R. Sandall. 1,726,860; Sept. 3.
- Draft device for implements. W. Elliott. 1,705,358; Mar. 12.
- Draft-eliminating device, Side-. C. Verkrusysse. 1,716,804; June 11.
- Draft equalizer. G. Johnson. 1,711,567; May 7.
- Draft equalizer. G. Johnson. 1,734,436; Nov. 5.
- Draft fan, Forced-. F. E. Grunwaldt. 1,736,311; Nov. 19.
- Draft-key-retaining device. A. W. L. Hartbauer. 1,710,538; Apr. 23.
- Draft mechanism for railroad vehicles. M. and C. E. Alma. 1,707,155; Mar. 26.
- Draft-regulating system. H. C. Schmidt. 1,739,375; Dec. 10.
- Draft regulator. R. E. Kelm. 1,722,801; July 30.
- Draft regulator for fireplaces and the like. F. Lawrence. 1,698,234; Jan. 8.
- Draft regulator for heating plants. M. B. Becker. 1,740,567; Dec. 24.
- Draft rigging. D. S. Barrows. 1,725,728; Aug. 20.
- Draft rigging. W. F. Richards. 1,738,020; Dec. 3.
- Draft tube. G. A. Jessop. 1,711,891-2; May 7.
- Draft tube. J. D. Scoville. 1,711,907; May 7.
- Draft tube, Hydraulic. L. F. Moody. 1,713,775; May 21.
- Drafting board. F. Gehler. 1,736,342; Nov. 19.
- Drafting implement. H. Falletta. 1,710,414; Apr. 23.
- Drafting instrument. J. H. Fischer. 1,730,496; Oct. 8.
- Drafting instrument. W. L. E. Keuffel. 1,704,540; Mar. 5.
- Drafting instrument. E. C. McFadden. 1,723,517; Aug. 6.
- Drafting instrument. F. E. Meyer. 1,738,498; Dec. 3.
- Drafting instrument. J. A. Nell. 1,708,551; Apr. 9.
- Drafting instrument. C. E. Rowe. 1,721,793; July 23.
- Drafting instrument. O. A. Turner. 1,732,073; Oct. 15.
- Drafting instrument and attachment. H. L. Corwin. 1,734,613; Nov. 5.
- Drafting rolls, Apparatus for manufacturing. F. O. Hoagland. 1,728,286; Sept. 17.
- Drag. G. E. Baldwin. 1,729,094; Sept. 24.
- Drag, Agitating. C. Sorensen. 1,701,280; Feb. 5.
- Drag and land leveler, Road. J. H. Hughes. 1,711,350; Apr. 30.
- Drag for irrigation ditches. A. W. Severance. 1,727,253; Sept. 3.
- Drag, Road. A. B. Coffin and J. C. Haskett. 1,706,914; Mar. 26.
- Drag, Road. J. S. Minton. 1,701,689; Feb. 12.
- Drag, Road. W. L. Wallick. 1,739,022; Dec. 10.
- Drainage device. D. A. Deacon. 1,708,381; Apr. 9.
- Drainage fixture. D. A. Deacon. 1,708,380; Apr. 9.
- Drainage system. G. G. Howell. 1,712,303; May 7.
- Drain, Back-pressure floor. E. W. N. Boosey. 1,705,469; Mar. 19.
- Drain, Backwater floor. E. W. N. Boosey. 1,699,871; Jan. 22.
- Drain, Backwater floor. E. W. N. Boosey. 1,722,891; July 30.
- Drain board. W. U. Griffiths. 1,718,231; June 25.
- Drain board. J. A. McGregor. 1,728,502; Sept. 17.
- Drain, Floor. W. S. Fleming. 1,731,617; Oct. 15.
- Drain, Floor. J. C. Sanders. 1,706,079; Mar. 19.
- Drain for washing machines. C. F. Smith. 1,737,981; Dec. 3.
- Drainpipe cleaner. W. J. Fischbeck. 1,721,106; July 16.
- Drainpipe flusher. E. Y. Kolstad. 1,714,789; May 28.
- Drain pipe, Oil-pump. T. B. Bennett. 1,709,602; Apr. 16.



- Drain sump, Back-water-intercepting tile. E. W. N. Boosey. 1,708,465; Apr. 9.
- Drain, Surface. W. S. Fleming. 1,733,254; Oct. 29.
- Drainline cleaner. J. P. Ross. 1,714,630; May 28.
- Drain trap. L. Almquist and V. Willoughby. 1,727,688; Sept. 10.
- Drain trap. G. L. Joachim. 1,703,769; Feb. 26.
- Drain trap, Floor. A. S. Newton. 1,721,084; July 16.
- Drainer and depository for dishes. A. Scheuermann. 1,733,907; Oct. 29.
- Drainer, Can. H. Hume. 1,710,927; Apr. 30.
- Drainer, Condensation. C. W. Vaughn. 1,714,647; May 28.
- Drainer, Tubing. M. O. Rife and W. P. Capps. 1,712,400; May 7.
- Draining device. G. L. Pitt. 1,699,159; Jan. 15.
- Draining, measuring, and canning oysters, etc., Device for. G. H. Frederick. 1,716,771; June 11.
- Draining rack, Barrel-. R. B. Dunn. 1,729,507; Sept. 24.
- Draining, System of. F. A. Pike. 1,734,777; Nov. 5.
- Draper. C. Koopman. 1,723,357; Aug. 6.
- Drapery cornice. W. H. Jury. 1,740,513; Dec. 24.
- Drapery hanger. C. H. Veeder. 1,698,746; Jan. 15.
- Drapery hanger. R. D. W. Vroom. 1,722,255; July 23.
- Drapery-holding device. F. W. Liebchen. 1,730,979; Oct. 8.
- Drapery hook. R. D. H. Vroom. 1,730,101; Oct. 1.
- Drapery-pole center. A. Dlouhy. Des. 77,474; Jan. 15.
- Drapery-pole center. G. M. Long. Des. 77,488-9; Jan. 15.
- Drapery-pole center. R. H. Vermillion. Des. 77,570-1; Jan. 22.
- Drapery-pole end. R. H. Vermillion. Des. 77,567-9; Jan. 22.
- Drapery-pole end or similar article. R. H. Vermillion. Des. 78,133; Mar. 26.
- Drapery-rod centerpiece. A. Dlouhy. Des. 79,703; Oct. 29.
- Drapery, Stocking. G. C. Hohein. 1,722,918; July 30.
- Drapery-supporting device, Adjustable. E. P. Beste. 1,711,304; Apr. 30.
- Drapes, Tie back for side. J. H. Boye. Des. 79,063; July 30.
- Drawbar. R. Hamilton. 1,701,107; Feb. 5.
- Drawbar. A. A. Rector. 1,725,104; Aug. 20.
- Drawbar coupling. F. N. Jordan. 1,702,830; Feb. 19.
- Drawbar for barrows. I. M. Endres. 1,715,063; May 28.
- Drawbar frame. C. A. Peters. 1,732,108; Oct. 15.
- Drawer, Cash. W. E. Dunning and J. Bachofen. 1,700,352; Jan. 29.
- Drawer for planing machines, Fixed-knife. C. J. A. Johnson. 1,703,007; Feb. 19.
- Drawer guard. C. H. J. Dilz. 1,704,964; Mar. 12.
- Drawer pull. C. H. Barr. 1,716,574; June 11.
- Drawer pull or the like. J. J. Sprenger and R. L. Sorensen. Des. 77,864; Feb. 26.
- Drawing and flattening sheet glass. T. C. McKinley. 1,731,253; Oct. 15.
- Drawing and rolling machine. G. E. Barnhart. 1,711,825; May 7.
- Drawing apparatus. W. E. Elam. 1,712,106; May 7.
- Drawing board. J. F. Brewer. 1,740,389; Dec. 17.
- Drawing board. J. W. McAdam. 1,719,273; July 2.
- Drawing board. E. Moratz. 1,735,292; Nov. 12.
- Drawing compound. G. W. Richards. 1,732,065; Oct. 15.
- Drawing device, Perspective. F. Martinelli and E. Acker. 1,705,330; Mar. 12.
- Drawing frame. R. Nigrin. 1,721,528; July 23.
- Drawing frame. A. J. Rick and J. Fliehdner. 1,709,489; Apr. 16.
- Drawing frames and the like, Rubbing motion for. H. Grivel. 1,722,141; July 23.
- Drawing frames, Stop motion for. W. J. Scott. 1,722,769; July 30.
- Drawing machines, Come-along for metal-. G. E. Barnhart. 1,733,327; Oct. 29.
- Drawing mechanism. A. C. Butler. 1,702,641; Feb. 19.
- Drawing mechanism. A. C. Butler. 1,702,718; July 16.
- Drawing metal. W. Steinmann. 1,717,419; June 18.
- Drawing of a plurality of bulb-edged glass sheets, Continuous. R. J. Dognaux. 1,702,501; Feb. 19.
- Drawing-roll traversing motion for wool-spinning machines. S. Helland. 1,702,969; Feb. 19.
- Drawing wire, Process and machine for. J. B. Green. 1,697,863; Jan. 8.
- Drawings, cuts for printing, etc., and apparatus therefor, Making. C. R. Swaim. 1,721,933; July 23.
- Dredge. B. R. Storsand. 1,698,033; Jan. 8.
- Dredge and the like. O. W. Andersen. 1,731,838; Oct. 15.
- Dredge, Gold. A. J. Posselt. 1,739,326; Dec. 10.
- Dredge head. G. W. Curtis. 1,696,938; Jan. 1.
- Dredge rake. J. Ream. 1,697,368; Jan. 1.
- Dredge-top can. A. A. Saalbach. 1,734,304; Nov. 5.
- Dredger. A. C. Clark. 1,739,888; Dec. 17.
- Dredger. W. A. Gibbs. 1,728,051; Sept. 10.
- Dredging apparatus. S. C. Dunn. 1,704,181; Mar. 5.
- Dredging apparatus. M. McEachern. 1,719,668; July 2.
- Dredging apparatus. W. H. Twiford. 1,705,428; Mar. 12.
- Dredging can. S. H. Lindgren. 1,737,014; Nov. 26.
- Dredging, Method of and means for use in. R. T. Stewart. 1,698,515; Jan. 8.
- Dredging stone and gravel, Process and apparatus for. H. L. Shotwell. 1,729,054; Sept. 24.
- Dress. K. E. Burns. Des. 77,739; Feb. 19.
- Dress. D. Long. Des. 78,116; Mar. 26.
- Dress. D. Long. Des. 78,214; Apr. 9.
- Dress. D. Long. Des. 78,767-70; June 18.
- Dress. D. Long. Des. 79,730; Oct. 29.
- Dress. D. Long. Des. 79,887; Nov. 12.
- Dress. D. Long. Des. 80,131; Dec. 17.
- Dress. D. Long. Des. 80,133-4; Dec. 17.
- Dress. D. M. Long. Des. 77,557; Jan. 22.
- Dress. D. Minchenberg. Des. 77,974; Mar. 12.
- Dress. A. Pratt. Des. 77,981; Mar. 12.
- Dress. M. C. Schmolze. Des. 77,986; Mar. 12.
- Dress. G. Tancill. Des. 77,445; Jan. 8.
- Dress and hair protector set, Beauty-parlor. G. V. Vaxes. 1,722,067; July 23.
- Dress form. C. A. Ufford. 1,717,477; June 18.
- Dress, Knitted. M. Gross. Des. 78,570; May 21.
- Dresser trunk, Combination. D. L. Venegas. 1,705,320; Mar. 12.
- Dressing table. P. Salvat. Des. 78,042; Mar. 19.
- Dressing table, Folding. W. H. Ackerman. 1,698,981; Jan. 15.
- Drier: See—
- Alimentary-paste drier. Hosiery drier.
- Apron drier. Lavatory drier.
- Centrifugal drier. Material drier.
- Clothes drier. Paper drier.
- Core drier. Rack and clothes drier.
- Electrically-heated drier. Rotary drier.
- Enamel drier. Shoe drier.
- Film drier. Steam fan drier.
- Garment drier. Tunnel drier.
- Grain drier. Wall drier.
- Hair drier.
- Drier. D. S. Baker. 1,706,993; Mar. 26.
- Drier. O. B. Brown and H. Parker. 1,697,454; Jan. 1.
- Drier. M. Cantella. 1,736,305; Nov. 19.
- Drier. C. H. Currier. 1,716,304; June 4.
- Drier. F. W. Cutler. 1,699,880; Jan. 22.
- Drier. H. J. Ernst. 1,733,785; Oct. 29.
- Drier. C. Hunneman, jr. 1,740,653; Dec. 24.
- Drier. A. O. Huxthal. 1,697,651; Jan. 1.
- Drier. M. D. Jones. 1,709,351; Apr. 16.
- Drier. P. T. Lindhard. 1,718,243; June 25.
- Drier. W. L. Martin. Re17,236-7; Mar. 12.
- Drier. W. L. Martin. 1,727,212; Sept. 3.
- Drier. W. T. Morin. 1,713,237; May 14.
- Drier. N. Panzireff. 1,736,980; Nov. 26.
- Drier. R. Ranson. 1,703,635; Feb. 26.
- Drier. L. J. Robb. 1,706,708; Mar. 26.
- Drier. C. P. Ross. 1,726,505; Aug. 27.
- Drier. D. E. Washington. 1,715,729; June 4.
- Drier and steamer for tubular fabrics. M. M. Kananof. 1,711,094; Apr. 30.
- Drier and stretcher, Combined rapid. R. C. Jones. 1,707,015; Mar. 26.
- Drier-control apparatus, Laundry-. A. H. Adams. 1,707,547; Apr. 2.
- Drier for agricultural products. N. W. Dalton. 1,740,075; Dec. 17.
- Drier for briquettes and other agglomerates. F. M. Crossman. 1,701,873; Feb. 12.
- Drier for ceramic wares. H. R. Straight. 1,724,325; Aug. 13.
- Drier for photographic prints. A. J. Cunningham. 1,739,505; Dec. 17.
- Drier for sand, gravel, etc. W. H. Dance. 1,714,259; May 21.
- Drier for washing machines. A. W. Altorfer. 1,717,178-9; June 11.
- Drier-rack-frame construction. J. Judelson. 1,709,352; Apr. 16.
- Drier room. A. F. Rose. 1,704,870; Mar. 12.
- Driers, Panel for. A. O. Huxthal. 1,741,366; Dec. 31.
- Driers, Panel for. W. M. Schwartz. 1,741,342; Dec. 31.
- Drift and speed meter. C. H. Colvin and M. M. Titterington. 1,719,287; July 2.
- Drill: See—
- Bonding drill. Roller drill.
- Core drill. Rotary drill.
- Dental drill. Seed drill.
- Diamond-core drill. Stone drill.
- Hammer drill. Submarine drill.
- Lens drill. Tube drill.
- Radial drill. Well drill.
- Rock drill.
- Drill. J. R. Decker. 1,727,752; Sept. 10.
- Drill. A. D'Orazio. 1,741,507; Dec. 31.
- Drill. P. J. Duffy. 1,703,390; Feb. 26.
- Drill. R. Krause. 1,737,462; Nov. 26.
- Drill. D. H. McKay. 1,727,297; Sept. 3.
- Drill. W. Sengstaken. 1,700,241; Jan. 29.
- Drill. S. T. Skeen. 1,703,500; Feb. 26.
- Drill and countersink, Combination. R. Brandt. 1,711,012; Apr. 30.
- Drill and cultivator, Combination. L. S. and F. Younggren. 1,707,650; Apr. 2.
- Drill and hole cleaner, Combined. S. E. Mortimer and W. V. Clamper. 1,698,343; Jan. 8.
- Drill and like reciprocating tool and valve mechanism therefor. Rock. A. T. and P. M. Holman. 1,722,090; July 23.
- Drill and manual support therefor. M. O'Farrell. 1,711,688; May 7.
- Drill attachment, Hand-. R. J. F. Hicks. 1,727,061; Sept. 3.
- Drill bit. C. H. M. Bull. 1,729,063; Sept. 24.
- Drill bit. R. K. Burke. 1,698,873; Jan. 15.
- Drill bit. W. O. Journeay. 1,734,469; Nov. 5.



- Drill bit. J. S. McNeill. 1,733,311; Oct. 29.  
 Drill bit, Hydraulic rotary. C. L. Harralson. 1,734,672; Nov. 5.  
 Drill bit, Well-boring. A. B. Cross and W. H. Frazier. 1,723,330; Aug. 6.  
 Drill chuck. E. A. Everett. 1,699,837; Jan. 22.  
 Drill chuck, Automatic quick-change. W. von Neudeck. 1,705,275; Mar. 12.  
 Drill chuck for percussive tools, Rotating. G. T. Chapman. 1,716,114; June 4.  
 Drill collar. W. V. Seifert. 1,701,897; Feb. 12.  
 Drill columns into reciprocating motions of a cutter, Apparatus for transforming a continuous rotation of. J. A. Zublin. 1,702,757; Feb. 19.  
 Drill for well boring, Reamer. W. M. Walker. 1,726,598; Sept. 3.  
 Drill gauge. G. B. Gallasch. 1,727,875; Sept. 10.  
 Drill head. J. F. Buhr. 1,700,975; Feb. 5.  
 Drill head, Multiple-. S. O. Berven. 1,724,250; Aug. 13.  
 Drill-hole charger. J. Matuszyk. 1,713,443; May 14.  
 Drill-pipe coupling. T. M. Hardesty. 1,701,885; Feb. 12.  
 Drill-pipe coupling. T. M. Hardesty. 1,715,547; June 4.  
 Drill-press table. R. E. Stubbs. 1,735,478; Nov. 12.  
 Drill rods, Making hollow. P. A. E. Armstrong. 1,718,210; June 25.  
 Drill-shoe regulator, Seed-. M. Chicolsky. 1,735,597; Nov. 12.  
 Drill stand. C. R. Whipple and T. C. Winn. 1,741,044; Dec. 24.  
 Drill-steel retainer. J. E. Renfer. 1,723,488; Aug. 6.  
 Drill-steel retainer. J. E. Renfer. 1,724,619; Aug. 13.  
 Drill-steel retainer. L. L. Richardson. 1,709,407; Apr. 16.  
 Drill steels, Quenching device for. C. C. Hansen. 1,738,050; Dec. 3.  
 Drill steels, Retainer for. J. E. Renfer. 1,724,620; Aug. 13.  
 Drill stem. J. P. Miller. 1,731,171; Oct. 8.  
 Drill stem, Hydraulic rotary. E. A. Reed. 1,714,818; May 28.  
 Drill structure. M. Nikolish. 1,720,841; July 9.  
 Drill-tool connection. A. B. Butts. 1,714,899; May 28.  
 Drilling and mortising machine. E. G. Lacey. 1,729,000; Sept. 24.  
 Drilling and reaming machine. H. W. McMillan. 1,712,894; May 14.  
 Drilling and reaming tool organization, Rotary. G. D. Shields. 1,701,427; Feb. 5.  
 Drilling and tapping machine, Intermittent. R. M. Galoway. 1,700,980; Feb. 5.  
 Drilling apparatus. E. G. Gartin. 1,713,471; May 14.  
 Drilling apparatus. H. C. Johansen. 1,703,823; Feb. 26.  
 Drilling apparatus. H. Mecon. 1,697,570; Jan. 1.  
 Drilling apparatus. H. H. Mercer. 1,737,508; Nov. 26.  
 Drilling apparatus, Earth-. F. S. Boltz. 1,741,497; Dec. 31.  
 Drilling apparatus, Rock-. A. H. Skaer and A. H. Katterjohn. 1,708,975-6; Apr. 16.  
 Drilling apparatus, Rock-. E. F. Terry, jr. 1,733,437; Oct. 29.  
 Drilling apparatus, Rotary. C. W. Herrin. 1,709,074; Apr. 16.  
 Drilling apparatus, Rotary well-. A. S. Debose. 1,721,004; July 16.  
 Drilling apparatus, Rotary well-. E. A. Reed. 1,719,340; July 2.  
 Drilling apparatus, Well-. R. D. Dodds. 1,697,590; Jan. 1.  
 Drilling apparatus, Well-. D. L. Johnson and W. F. Barnes. 1,736,854; Nov. 26.  
 Drilling apparatus, Well-. P. M. Moss. 1,721,029; July 16.  
 Drilling apparatus, Well-. R. P. Simmons. 1,717,271; June 11.  
 Drilling bit. G. B. Louderback. 1,727,655; Sept. 10.  
 Drilling bit, Well-. J. C. Wright and L. F. Bonney. 1,706,275; Mar. 19.  
 Drilling cables, Line saver and restrainer for. E. P. Blankenship and E. W. Bell. 1,728,915; Sept. 24.  
 Drilling device. W. A. Ross. 1,727,563; Sept. 10.  
 Drilling device for the manufacture of glass-bottle necks. J. A. Bayet. 1,717,304; June 11.  
 Drilling device, Wire-cable well-. F. F. Davis. 1,733,484; Oct. 29.  
 Drilling in the earth, particularly in coal, shale, slate, and like formations. J. A. Maevicar. 1,738,594; Dec. 10.  
 Drilling jar. P. Arbon. 1,702,680; Feb. 19.  
 Drilling jars, Making. P. Arbon. 1,725,842; Aug. 27.  
 Drilling machine. G. H. Gilman. 1,740,813; Dec. 24.  
 Drilling machine. W. Noble. 1,723,249; Aug. 6.  
 Drilling machine. J. A. Pierson. 1,738,151; Dec. 3.  
 Drilling machine. G. E. Randles. 1,705,499; Mar. 19.  
 Drilling machine. C. Whitte. 1,723,592; Aug. 6.  
 Drilling machine. D. M. Wolcott. 1,724,814; Aug. 13.  
 Drilling machine, Automatic. T. P. Caulkins. 1,720,033; July 9.  
 Drilling machine, Center-. M. H. Damerell. 1,700,668; Jan. 29.  
 Drilling machine, Radial. W. C. De Roo. 1,715,321; May 28.  
 Drilling machine, Radial. H. W. Schatz and S. M. Ratliff. 1,706,824; Mar. 26.  
 Drilling machine, Rotary. E. E. Greve. 1,722,085; July 23.  
 Drilling machine, Well-. J. A. Showalter. 1,719,142; July 2.  
 Drilling machine, Well-. I. T. Thompson. 1,697,211; Jan. 1.  
 Drilling machine with sectional crank. G. W. Gage. 1,700,039; Jan. 22.  
 Drilling machinery. A. M. Sosa and W. G. Hoelscher. 1,724,430; Aug. 13.  
 Drilling machinery, Feeding mechanism for. A. M. Sosa and W. G. Hoelscher. 1,703,791; Feb. 26.  
 Drilling machines, Feeding means for. A. E. Robinson. 1,699,493; Jan. 15.  
 Drilling machines, Spindle sleeve for. A. M. Johnson. 1,727,984; Sept. 10.  
 Drilling machines, Work-handling device for. J. S. Stull. 1,701,644; Feb. 12.  
 Drilling mechanism. E. G. Gartin. 1,703,229; Feb. 26.  
 Drilling mechanism. E. G. Gartin. 1,703,843; Feb. 26.  
 Drilling mechanism. E. G. Gartin. 1,707,631; Apr. 2.  
 Drilling mechanism. E. G. Gartin. 1,740,687; Dec. 24.  
 Drilling mechanism. E. G. Gartin. 1,740,689-90; Dec. 24.  
 Drilling mechanism. E. G. Gartin. 1,742,166; Dec. 31.  
 Drilling mechanism. H. H. Mercer. 1,731,471; Oct. 15.  
 Drilling mechanism. H. H. Mercer. 1,737,507; Nov. 26.  
 Drilling mechanism. E. E. Miller. 1,704,053; Mar. 5.  
 Drilling mechanism. C. F. Osgood. 1,709,440; Apr. 16.  
 Drilling mechanism. C. F. Osgood. 1,718,430; June 25.  
 Drilling mechanism. C. F. Osgood. 1,718,873; June 25.  
 Drilling mechanism. C. F. Osgood. 1,740,701; Dec. 24.  
 Drilling mechanism. C. F. Osgood. 1,740,703; Dec. 24.  
 Drilling mechanism, Rock-. E. G. Gartin. 1,739,356; Dec. 10.  
 Drilling, milling, and like machine. E. Sander. 1,719,238; July 2.  
 Drilling motor. E. G. Gartin. 1,740,686; Dec. 24.  
 Drilling process, Core-. H. D. Rindsberg. 1,699,921; Jan. 22.  
 Drilling rig. G. Krell and G. M. Martinet. 1,725,458; Aug. 20.  
 Drilling rig, Oil-well-. E. O. Adams. 1,705,847; Mar. 19.  
 Drilling rig, Well-. R. H. Ramsey. 1,707,568; Apr. 2.  
 Drilling rigs, Automatic control mechanism for. F. M. Detwiler. 1,704,464; Mar. 5.  
 Drilling tools, Facing the cutting edges of. R. D. Davies. 1,717,323; June 11.  
 Drilling wells, such as oil wells, Method and apparatus for. E. P. Halliburton. 1,703,234; Feb. 26.  
 Drills, Attachment for portable. F. B. Hewel. 1,701,673; Feb. 12.  
 Drills, Blowing device for rock. W. A. Smith, jr. 1,736,864; Nov. 26.  
 Drills, Flushing device for rock. J. Kohlen. 1,736,922; Nov. 26.  
 Drills, Front head for rock. R. H. Wilhelm. 1,712,239; May 7.  
 Drills, Head-translating mechanism for radial. D. C. Klausmeyer. 1,731,466; Oct. 15.  
 Drills, Liquid-feeding device for rock. C. C. Hansen. 1,739,141; Dec. 10.  
 Drills, Sand pipe for rock. C. C. Hansen. 1,697,649; Jan. 1.  
 Drills, Shroud for well. F. L. Scott. 1,736,840; Nov. 26.  
 Drills, Sleeve, suspension for. D. C. Klausmeyer. 1,710,829; Apr. 30.  
 Drills, Water tube for rock. L. C. Bayles. 1,739,117; Dec. 10.  
 Drink mixer. H. D. Flegel. 1,711,407; Apr. 30.  
 Drink mixer. H. D. Flegel. 1,713,119; May 14.  
 Drink mixer. F. T. Genfile. 1,714,865; May 28.  
 Drink mixer. R. B. Gilchrist. 1,700,729; Jan. 29.  
 Drink mixer. R. B. Gilchrist. 1,739,635; Dec. 17.  
 Drink mixer. C. W. Gilliam, jr. 1,708,266; Apr. 9.  
 Drink mixer. F. H. Robinson, E. Nielsen, and E. R. Mross. 1,729,966; Oct. 1.  
 Drink mixer. H. D. Rutz. 1,711,396; Apr. 30.  
 Drink mixer, Electric. R. B. Gilchrist. 1,700,730; Jan. 29.  
 Drink mixer, Sanitary. P. Supervielle. 1,735,143; Nov. 12.  
 Drinking attachment for water faucets. J. Rosay. 1,704,408; Mar. 5.  
 Drinking cup. F. A. Stern. Des. 78,171; Apr. 2.  
 Drinking cup. M. Vierengel. 1,720,497; July 9.  
 Drinking flask. B. Y. Jacobson. Des. 80,125; Dec. 17.  
 Drinking fount, Sanitary. L. C. Rathbun. 1,719,487; July 2.  
 Drinking fountain. O. M. Böhn. 1,741,552; Dec. 31.  
 Drinking fountain. J. R. Mayhew. Des. 79,836; Nov. 5.  
 Drinking fountain. R. D. B. Moynahan. Des. 78,776; June 18.  
 Drinking fountain. W. S. Spence. Des. 79,766; Oct. 29.  
 Drinking fountain. W. F. Sterne. 1,734,606; Nov. 5.  
 Drinking fountain. H. W. Taylor. 1,715,875; June 4.  
 Drinking fountain, Animal. A. F. Klinzing. 1,738,300; Dec. 3.  
 Drinking fountain, Poultry. J. L. Chesnutt. 1,739,290; Dec. 10.  
 Drinking glass, Sanitary. G. C. Croom. 1,712,552; May 14.  
 Drinking vessel. N. Siddall. 1,729,017; Sept. 24.  
 Drip catcher. R. M. Crosbie. 1,727,423; Sept. 10.  
 Drive for electric locomotives, Flexible. J. Morch. 1,733,068; Oct. 22.  
 Drive for motor vehicles. J. W. Christie. 1,736,391; Nov. 19.  
 Drive for opening and closing mold boxes and metal-controlling organs in machines for casting stereoplates. Automatic. C. Winkler. 1,739,432; Dec. 10.



- Drive for pattern mechanism for looms. O. V. Payne. 1,722,972; July 30.
- Drive for roller tables in rolling mills. A. T. Keller and R. H. Stevens. 1,735,767; Nov. 12.
- Drive for spinning frames or similar machines. H. H. Leonard. 1,707,916; Apr. 2.
- Drive for vehicles, Multiple-wheel. O. D. North. 1,707,535; Apr. 2.
- Drive mechanism. L. B. Green. 1,735,459; Nov. 12.
- Drive mechanism. H. Honigmann. 1,724,588; Aug. 13.
- Drive mechanism for milking machines. R. L. Hinman. 1,717,337; June 11.
- Drive mechanism, Variable-. W. B. Bronander. 1,723,327; Aug. 6.
- Drive ring. E. St. John. 1,735,939; Nov. 19.
- Drive unit. E. Hutchens. 1,711,500; May 7.
- Driven plate. C. M. Ahlens. 1,727,153; Sept. 3.
- Driver of the crank-pin type. F. Dustan and J. H. Welch. 1,705,967; Mar. 19.
- Driving and controlling mechanism. F. M. Furber. 1,735,898; Nov. 19.
- Driving and steering mechanism for vehicles. C. Klinkman. 1,713,084; May 14.
- Driving and stopping mechanism. F. A. Reece. 1,730,014; Oct. 1.
- Driving attachment for vehicles, Auxiliary. M. J. August. 1,740,056; Dec. 17.
- Driving box, Locomotive. H. E. Muchnic. 1,717,618; June 18.
- Driving box, Locomotive. J. F. O'Connor. 1,710,184; Apr. 23.
- Driving coupling. J. Buchli. 1,738,635; Dec. 10.
- Driving device. E. Herrmann and F. Pohn. 1,718,147; June 18.
- Driving device, Change-web-roll. I. I. Stone. 1,699,928; Jan. 22.
- Driving device for miniature golf balls. H. J. Klutho. 1,700,589; Jan. 29.
- Driving device for miniature golf balls. H. J. Klutho. 1,739,467; Dec. 10.
- Driving device for multiaxle motor vehicle. H. Schildknecht. 1,698,026; Jan. 8.
- Driving device, Synchronous. S. A. Murdock. 1,736,323; Nov. 19.
- Driving device, Web-roll-. I. Tornberg. 1,738,083; Dec. 3.
- Driving means for cigarette conveyers in cigarette-rod machines. P. L. Graupner. 1,723,613; Aug. 6.
- Driving means for motor vehicles. V. Woick. 1,727,089; Sept. 3.
- Driving mechanism. A. U. Ayres. 1,698,488; Jan. 8.
- Driving mechanism. W. N. Belanger. 1,726,879; Sept. 3.
- Driving mechanism. J. Gouldbourn. 1,715,595; June 4.
- Driving mechanism. M. E. Layne. 1,725,401; Aug. 20.
- Driving mechanism. M. E. Layne and S. N. Hall. 1,721,701; July 23.
- Driving mechanism. B. T. Leveque. 1,739,242; Dec. 10.
- Driving mechanism. R. E. Lyford. 1,708,511; Apr. 9.
- Driving mechanism. O. K. Marti. 1,728,297; Sept. 17.
- Driving mechanism. J. Proksa. 1,708,520; Apr. 9.
- Driving mechanism. J. Robson. 1,711,967; May 7.
- Driving mechanism. E. B. Roby. 1,706,901; Mar. 26.
- Driving mechanism, Differential. J. W. Hegeler and G. Richards. 1,728,979; Sept. 24.
- Driving mechanism, Flexible. F. W. Baker. 1,701,470; Feb. 5.
- Driving mechanism, Flexible. F. W. Baker. 1,733,771; Oct. 29.
- Driving mechanism for automobiles. J. G. Utz and G. Morgan. 1,708,457; Apr. 9.
- Driving mechanism for grain drills, Gearless and dust-proof. W. R. Alexander. 1,713,862; May 21.
- Driving mechanism for merry-go-rounds. A. Spillman. 1,727,490; Sept. 10.
- Driving mechanism for motor vehicles. R. E. Fielder. 1,709,255; Apr. 16.
- Driving mechanism for motor vehicles. W. Staniewicz. 1,733,032; Oct. 22.
- Driving mechanism for paper-making machines. B. A. Malkin. 1,730,082; Oct. 1.
- Driving mechanism for power meat choppers. J. W. Brown, jr. 1,718,893; June 25.
- Driving mechanism for railway-car generators. W. F. Holmes. 1,728,899; Sept. 17.
- Driving mechanism for railway-car generators. W. R. Richards. 1,723,078; Aug. 6.
- Driving mechanism for sectional machine. D. R. Francis. 1,722,905; July 30.
- Driving mechanism for soil pulverizers. G. F. Scheckler. 1,704,263; Mar. 5.
- Driving mechanism for tumblers, Reversible. H. C. Ellis. 1,700,125; Jan. 29.
- Driving mechanism for vehicle wheels. R. E. Lyford. 1,709,480; Apr. 16.
- Driving mechanism, Intermittent. M. Köhler. 1,719,613; July 2.
- Driving mechanism, Manure-spreader-. S. K. Dennis. 1,721,691; July 23.
- Driving mechanism, Releasing device for take-up. E. R. Holmes. 1,711,600; May 7.
- Driving mechanism, Unidirectional. G. Walker. 1,736,064; Nov. 19.
- Driving mechanism, Variable-speed. L. M. Sheridan. 1,740,788; Dec. 24.
- Driving motor, Loud speaker. I. S. Bobrovsky. 1,722,836; July 30.
- Driving power-operated vehicles particularly aircraft. A. Helfenstein. 1,737,011; Nov. 26.
- Driving unit. J. B. Fisher and J. E. De Long. 1,697,639; Jan. 1.
- Drop brake. C. J. Nash and J. Wilson. 1,705,304; Mar. 12.
- Drop, Hammer board. R. T. Teakle. 1,722,715; July 30.
- Drop pit. B. P. Phelps. 1,707,923; Apr. 2.
- Drop-wire hanger. G. N. Eyl. 1,725,610; Aug. 20.
- Dropper. See—  
Bulb dropper. Liquid dropper.  
Eye dropper. Medicine dropper.
- Drying trap. W. J. Atwell and E. W. Kinzer. 1,730,963; Oct. 8.
- Drum. H. A. Bower. 1,722,032; July 23.
- Drum. E. W. Hagen. Re17,546; Dec. 31.
- Drum, Barking. J. D. Ullgren. 1,700,390; Jan. 29.
- Drum brake. W. W. Wilson. 1,709,550; Apr. 16.
- Drum, Braking. P. P. Westbye. 1,739,564; Dec. 17.
- Drum cleaner, Soaking. G. W. Wheat. 1,722,188; July 23.
- Drum connection joint. W. A. Jones. 1,715,068; May 28.
- Drum construction. J. B. Triplett. 1,736,144; Nov. 19.
- Drum controller. R. B. Hunter. 1,722,295; July 30.
- Drum for concrete-mixing machines. G. Jaeger and J. Eggert. 1,714,602; May 28.
- Drum lever. S. D. Sigbsbee. 1,714,401; May 21.
- Drum-mill feeder. K. Fahland. 1,719,971; July 9.
- Drum mounting. R. S. Sanford. 1,728,632; Sept. 17.
- Drum scanner, Helical. C. F. Jenkins. 1,730,976; Oct. 8.
- Drumstick. A. M. Zipperstein. 1,739,275; Dec. 10.
- Drums, Making boiler. I. Harter. 1,718,233; June 25.
- Drums or the like, Agitator for. C. E. Farrington. 1,723,022; Aug. 6.
- Dry battery. S. L. Casella. 1,726,540; Sept. 3.
- Dry battery. M. Zerner and O. K. Reinhardt. 1,734,457; Nov. 5.
- Dry cell. G. W. Heise and E. A. Schumacher. 1,702,473; Feb. 19.
- Dry cell. H. W. Porth. 1,699,446; Jan. 15.
- Dry cell. O. W. Storey and J. G. Zimmerman. 1,737,130; Nov. 26.
- Dry cell with extensible coating. A. W. Schorger. 1,732,069; Oct. 15.
- Dry-cleaning washer. B. Lindberg. 1,720,961; July 16.
- Dry separator. M. J. Lide. 1,701,624; Feb. 12.
- Drying and carbonizing textile fabrics. J. H. Walsh. 1,714,062; May 21.
- Drying and dehydrating apparatus, Vertical. M. Baechler. 1,718,104; June 18.
- Drying and distilling lignite, peat, noncoking coals, and other similar carbonaceous matter, Apparatus for use in. H. Debauche. 1,713,032; May 14.
- Drying and grading plants for granular water-containing materials. L. Honigmann and F. Bartling. 1,705,617; Mar. 19.
- Drying and grinding, Simultaneous. E. Barthelmeß. 1,702,333; Feb. 19.
- Drying and/or otherwise treating timber. C. Goodall. 1,721,297; July 16.
- Drying and stretching frame, Garment. W. B. Clark. 1,709,205; Apr. 16.
- Drying apparatus. L. Buck. 1,703,290; Feb. 26.
- Drying apparatus. M. U. Burnham, G. M. Argabrite, and A. A. Dionne. 1,740,680; Dec. 24.
- Drying apparatus. B. Dewey and T. L. Taliaferro. 1,741,981; Dec. 31.
- Drying apparatus. J. Farasey. 1,719,603; July 2.
- Drying apparatus. A. Gallerani. 1,720,214; July 9.
- Drying apparatus. T. A. Hill. 1,698,545; Jan. 8.
- Drying apparatus. O. J. Kuehnold. 1,711,799; May 7.
- Drying apparatus. O. J. Kuehnold. 1,736,201; Nov. 19.
- Drying apparatus. H. D. Miles. 1,726,751; Sept. 3.
- Drying apparatus. E. C. Reader and V. F. Finn. 1,709,154; Apr. 16.
- Drying apparatus. O. R. Wolf. 1,731,603; Oct. 15.
- Drying apparatus and method. L. Buck. 1,703,291; Feb. 26.
- Drying apparatus, Dish-. S. Olson. 1,697,879; Jan. 8.
- Drying apparatus for plates of metal and other material. C. Wagner and A. Hormel. 1,736,866; Nov. 26.
- Drying apparatus, Seed-cotton-. C. A. Bennett. 1,707,930; Apr. 2.
- Drying attachment for vacuum cleaners, Hair-. W. M. Singer. 1,703,551; Feb. 26.
- Drying barrels, Method and apparatus for. L. Buck. 1,700,994; Feb. 5.
- Drying buildings. A. Knapen. 1,727,546; Sept. 10.
- Drying ceramic ware, Process and apparatus for. W. J. Miller. 1,737,259; Nov. 26.
- Drying, charring, and otherwise treating loose material, Apparatus for. O. Döbelstein. 1,714,853; May 28.
- Drying cigars and the like. K. E. Arndt. 1,702,857; Feb. 19.
- Drying cylindrical articles. C. T. Draper. 1,705,084; Mar. 12.
- Drying device, Lavatory. R. A. Lemp. 1,704,136; Mar. 5.
- Drying drum, Inductively-heated. C. C. Heritage. 1,701,156; Feb. 5.
- Drying fields, Apparatus for. C. A. Stenvig. 1,736,227; Nov. 19.
- Drying form, Hosiery-. A. Kershaw. 1,698,368; Jan. 8.
- Drying form, Hosiery-. O. Nebel. 1,707,447; Apr. 2.
- Drying form, Hosiery-. J. O. Von Stetten. 1,698,381; Jan. 8.



- Drying hay, grain, and the like, Apparatus for. A. W. Koon. 1,733,022; Oct. 22.
- Drying liquids containing solid constituents. W. S. Bowen. 1,722,175; July 23.
- Drying machine. T. Allsop. 1,721,061; July 16.
- Drying machine. T. Allsop and W. W. Sibson. 1,734,001; Oct. 29.
- Drying machine J. Triulzi. 1,711,188; Apr. 30.
- Drying machine, clothes-. O. E. Barthel and J. S. Zucchet. 1,720,537; July 9.
- Drying machine, Paper-. W. A. Lorenz. 1,702,907; Feb. 19.
- Drying machine, Rug-. S. Chase, 4th, and B. S. Pfeiffer. 1,741,755; Dec. 31.
- Drying machine with roll doctors, Paper-. J. E. Alexander. 1,719,793; July 2.
- Drying machinery, Paper. W. E. Beadle. 1,738,520; Dec. 10.
- Drying materials, Method of and mechanism for. W. J. Harshaw and C. S. Parke. 1,729,424; Sept. 24.
- Drying mechanism, Sheet-. H. Honigsmann. 1,717,606; June 18.
- Drying method. M. U. Burnham, G. M. Argabrite, and A. A. Dionne. 1,740,681; Dec. 24.
- Drying method and apparatus. C. L. Colbert. 1,697,556; Jan. 1.
- Drying, Method of and means for. J. M. Rugh. 1,730,902; Oct. 8.
- Drying moist rooms, buildings, and the like. A. Wagner. 1,706,199; Mar. 19.
- Drying or distillation of fine granular masses, Continuous. L. Honigsmann. 1,704,796; Mar. 12.
- Drying paints, varnishes, shellac, stains, etc. K. A. Weber. 1,706,554; Mar. 26.
- Drying paper and textiles and the like, System for. T. H. Ireland. 1,737,926; Dec. 3.
- Drying process. S. Hiller. 1,735,397; Nov. 12.
- Drying process for ammonium nitrate solutions. C. Toniolo. 1,721,798; July 23.
- Drying pulp articles, Method of and apparatus for. G. J. Manson. 1,725,465; Aug. 20.
- Drying rack. A. C. Fischer. 1,698,753; Jan. 15.
- Drying rack. R. A. McCall. 1,701,688; Feb. 12.
- Drying rack. R. V. Proctor. 1,708,588; Apr. 9.
- Drying rack, Clothes-. C. Radvany. 1,711,426; Apr. 30.
- Drying rack, Corn-. R. C. Walling. 1,718,991; July 2.
- Drying seed cotton, Process and apparatus for. C. A. Bennett. 1,707,929; Apr. 2.
- Drying structure. T. W. Prosser. 1,717,623; June 18.
- Drying system. F. C. Farnsworth. 1,705,516; Mar. 19.
- Drying system for use with annular kilns. O. Busch. 1,718,190; June 18.
- Drying, waste-heat recovery, and cooling system. F. S. Boltz. 1,731,290; Oct. 15.
- Dual-feeding apparatus. I. A. Taylor. 1,725,226; Aug. 20.
- Dual-flow engine, Dual-cycle. A. C. Peterson. 1,705,876; Mar. 19.
- Dummy, Tackling. T. P. Smith. 1,708,638; Apr. 9.
- Dumortierite, Use of. J. A. Jeffery and F. H. Riddle. 1,723,174; Aug. 6.
- Dump bodies, Discharge-controlling device. F. D. Coppock. 1,742,058; Dec. 31.
- Dump body. R. E. Smith. 1,734,054; Nov. 5.
- Dump body for motor trucks, Swivel. S. B. Winn. 1,722,692; July 30.
- Dump body, Rocking. L. E. Williams. 1,734,320; Nov. 5.
- Dump box for vehicles, Rear-end. W. E. Sherwood. 1,739,376; Dec. 10.
- Dumping apparatus, Car-. R. W. Capper. 1,736,520; Nov. 19.
- Dumping apparatus, Carl-. F. E. Smith. 1,717,124; June 11.
- Dumping attachment for harvesters and headers. C. Well. 1,708,437; Apr. 9.
- Dumping body. W. C. Anthony. 1,704,274; Mar. 5.
- Dumping installation for brooder heaters, Soot-. W. A. Mudge. 1,719,900; July 9.
- Dumping mechanism for vehicles, Automatic. L. M. Palmero and R. G. Jung. 1,712,398; May 7.
- Duplex depositor. W. C. Schoppner. 1,711,750; May 7.
- Duplex heater. W. R. Ray. 1,726,921; Sept. 3.
- Duplicating apparatus. G. Bertinetti and E. Gattino. 1,715,893; June 4.
- Duplicating copy machine. W. E. Williams. 1,738,627; Dec. 10.
- Duplicating machine. J. J. Flanagan. 1,703,140; Feb. 26.
- Duplicating machine. J. G. Kings. 1,726,841; Sept. 3.
- Duplicating machine. H. A. Saxe. 1,729,749; Oct. 1.
- Duplicating machine on the hectograph principle. W. E. Williams. 1,717,864; June 18.
- Duplicating machines, Card-registration means for rotary. E. J. Brasseur. 1,712,247; May 7.
- Duplicating typewriting, Method and apparatus for. W. H. Harris. 1,706,666; Mar. 26.
- Duplicator. F. F. Fecher. 1,716,307; June 4.
- Duplicator. E. Van Eerde. 1,701,431; Feb. 5.
- Duplicator, Rotary. C. E. Morrison. 1,740,195; Dec. 17.
- Dust arrester. C. E. Billings. 1,715,273; May 28.
- Dustbins into refuse-collecting carts, Device for the dust-free discharge of circular. K. Hirschner. 1,715,364; June 4.
- Dust cap and valve cap, Combined. H. P. Kraft. 1,698,503; Jan. 8.
- Dust charger for road plants. F. H. Cummer. 1,721,206; July 16.
- Dust, Collecting. P. and S. Gasner. 1,729,103; Sept. 24.
- Dust-collecting system. H. Howard. 1,705,449; Mar. 12.
- Dust collector. C. Jensen. 1,708,697; Apr. 9.
- Dust collector. H. W. Pfeffer. 1,719,447; July 2.
- Dust collector. H. W. Titgen. 1,729,527; Sept. 24.
- Dust collector and gas cleaner. C. G. Hawley. 1,715,549; June 4.
- Dust eliminator for hot-air furnaces. E. A. Steuer. 1,728,140; Sept. 10.
- Dust-forming device and method. T. E. Murray. 1,729,356; Sept. 24.
- Dust from stone crushing and segregating apparatus, Apparatus for removing. F. J. Colgan. 1,699,180; Jan. 15.
- Dust gun. E. C. Brown. 1,715,986; June 4.
- Dust guard. W. E. Eaton. 1,700,034; Jan. 22.
- Dustpan. G. H. Reimer. 1,729,127; Sept. 24.
- Dust particles, Apparatus for collecting. H. W. Pfeffer. 1,735,298; Nov. 12.
- Dustproof bag. A. Stone. 1,720,013; July 9.
- Dust separator. C. R. Houghton. 1,741,774; Dec. 31.
- Dust trap. M. Love. 1,739,867; Dec. 10.
- Duster construction. J. Glover. 1,707,608; Apr. 2.
- Dusting apparatus. T. H. Huff. 1,722,467; July 30.
- Dusting apparatus, Grain-. H. O. Hendrickson. 1,698,436; Jan. 8.
- Dusting insecticide and fungicide powders upon plants, Method and apparatus for. G. S. Messinger. 1,716,970; June 11.
- Dusting machine. W. H. Thompson. 1,727,526; Sept. 10.
- Dusting the interiors of tubes, Method and apparatus for. H. L. Young. 1,730,638; Oct. 8.
- Dye and making same, Anthracene. W. R. Waldron. 1,735,941; Nov. 19.
- Dye and preparing same, Azo. E. F. Hitch and H. Jordan. 1,735,924; Nov. 19.
- Dye and preparing the same, Disazo. E. F. Hitch, H. Jordan, and A. O. Bradley. 1,739,031-2; Dec. 10.
- Dye, Azo. A. Schmelzer, F. Muth, and E. Glietenberg. 1,726,681; Sept. 3.
- Dye, Mono azo. W. Duisberg, W. Hentrich, and L. Zeh. 1,711,930; May 7.
- Dye, Monazo pyrazolone. K. H. Hoover. 1,741,418; Dec. 31.
- Dye of the anthraquinone series. R. E. Schmidt and R. Berlner. 1,706,498; Mar. 26.
- Dye of the anthraquinone series, Green. J. Ogilvie. 1,698,821; Jan. 15.
- Dye preparation Leather-. B. R. Harris. 1,729,938; Oct. 1.
- Dye set. N. M. Crouch. 1,702,155; Feb. 12.
- Dye stable pulverized hair. P. Langenkamp. 1,738,590; Dec. 10.
- Dye, Triarylmethane. H. Polikier and O. Boeger. 1,731,637; Oct. 15.
- Dyeing. A. Escaich and J. P. Worms. 1,716,218; June 4.
- Dyeing. H. E. Grier. 1,720,595-6; July 9.
- Dyeing and cleaning, Clothes-dipping apparatus for. B. Neumark. 1,727,725; Sept. 10.
- Dyeing and lubricating thread for sewing machines. A. F. Filsinger. 1,715,649; June 4.
- Dyeing and otherwise processing rayon. L. T. Brown and H. D. Evans. 1,733,147; Oct. 29.
- Dyeing and printing. H. Müller. 1,717,242; June 11.
- Dyeing and printing process. A. Thauss and A. Guenther. 1,711,002; Apr. 30.
- Dyeing animal fibers. E. Schwenk, K. Reichner, and M. Knob. 1,718,832; June 25.
- Dyeing apparatus. C. K. Dunlap. 1,730,320; Oct. 1.
- Dyeing apparatus. L. B. Hasbrouck. 1,705,761; Mar. 19.
- Dyeing apparatus. L. B. Hasbrouck. 1,726,984; Sept. 3.
- Dyeing apparatus. H. E. Van Ness. 1,734,455; Nov. 5.
- Dyeing, Apparatus and process for. F. W. Clark. 1,698,778; Jan. 15.
- Dyeing apparatus, Raw-stock-. F. M. Morton. 1,737,940; Dec. 3.
- Dyeing, bleaching, and similar operations upon textile fabrics, Process of and apparatus for effecting. G. W. Stelger. 1,706,827; Mar. 26.
- Dyeing cellulose acetate silk. R. Metzger. 1,738,660; Dec. 10.
- Dyeing cellulose fabric, Cross-. J. C. Watson. Re17,295; May 14.
- Dyeing clamp, Spot. A. H. Adams. 1,722,781; July 30.
- Dyeing machine. H. E. Brewin and A. C. Mackey. 1,710,607; Apr. 23.
- Dyeing machine. F. Davis. 1,699,391; Jan. 15.
- Dyeing machine. G. E. Drum and J. H. Skitt. 1,716,264; June 4.
- Dyeing machine. S. Shapiro. 1,727,414; Sept. 10.
- Dyeing machine or the like. J. Brenzinger. 1,737,141; Nov. 26.
- Dyeing machine, Skein-. C. E. Kimball. 1,723,624; Aug. 6.
- Dyeing machines, Drive mechanism for. W. W. Brown. 1,717,494; June 18.
- Dyeing mixed textile goods made of wool and silk fibers. H. Wagner, H. Eichwede, and E. Fischer. 1,739,879; Dec. 17.
- Dyeing of artificial silk. W. Hentrich, R. Knoche, and M. Hardtmann. 1,711,890; May 7.
- Dyeing of fabric. G. F. Lloyd. 1,717,792; June 18.
- Dyeing of knitted and woven fabrics, Apparatus for. C. Callebaut and J. de Blicquy. 1,702,106; Feb. 12.
- Dyeing of materials made of or containing cellulose derivatives. H. Dreyfus. 1,735,960-1; Nov. 19.



- Dyeing of materials made of or containing cellulose derivatives. H. Dreyfus. 1,735,963; Nov. 19.
- Dyeing of organic derivatives of cellulose. W. Whitehead. 1,738,978; Dec. 10.
- Dyeing of vat colors on fabrics. J. Wakefield. 1,733,439; Oct. 29.
- Dyeing or coloring of products made with cellulose acetate. G. H. Ellis. 1,719,324; July 2.
- Dyeing or preserving wood. Impregnating process for. F. von Behr. 1,740,484; Dec. 24.
- Dyeing or washing textiles. Apparatus for. C. F. Hammond and W. Shackleton. 1,714,777; May 28.
- Dyeing process, Transfer. E. Kirschenbaum. 1,729,347; Sept. 24.
- Dyeing vegetable fibers. J. Rath. 1,724,108; Aug. 13.
- Dyeing with vat dyestuff, Producing resists in. J. Höpker. 1,730,211; Oct. 1.
- Dyeing yarn, Apparatus for. H. T. Ballard. 1,710,443; Apr. 23.
- Dyeings on the fiber, Producing fast. G. Kirchseisen and J. Guertler. 1,736,083; Nov. 19.
- Dyes and preparing same, Orange to brown disazo. H. Jordan. 1,724,660; Aug. 13.
- Dyes derived from diamino carbazoles and arylimino compounds, Primary disazo. H. Clingstein. 1,697,107; Jan. 1.
- Dyes derived from tetrazotized halogenated 4,4'-diaminodiphenyl-methanes, Polyazo. R. Krech and E. Keiner. 1,697,122; Jan. 1.
- Dyes, Disazo. R. Kirchhoff and M. Cantor. 1,740,819; Dec. 24.
- Dyes for cotton and making same, Blue tetrakisazo. H. Jordan. 1,712,732; May 14.
- Dyes for cotton, Green trisazo. H. Clingstein. 1,701,717; Feb. 12.
- Dyes from hydroxy-naphtho-diazine derivatives, Azo. W. Herzberg and H. Ohlendorf. 1,705,974; Mar. 19.
- Dyes from rubber derivatives, Azo. H. L. Fisher. 1,724,270; Aug. 13.
- Dyes, New diazo. H. Jordan. 1,724,663; Aug. 13.
- Dyes of the pyrazolone series, Monazo. L. W. Geller. 1,711,639; May 7.
- Dyes, Preparation of trisazo. H. Jordan. 1,716,063; June 4.
- Dyes, Sulphur. O. Spengler and R. Weidenhagen. 1,705,840; Mar. 19.
- Dyestuff and making same, Azo. W. Zerweck. 1,706,946; Mar. 26.
- Dyestuff and making same, Vat. B. Mayer and H. Siebenbürger. 1,728,068; Sept. 10.
- Dyestuff and making same, Vat. M. P. Schmidt and O. Limpach. 1,706,902; Mar. 26.
- Dyestuff and preparing same. K. Thiess, C. J. Müller, K. Schirmacher, and K. Zahn. 1,712,721; May 14.
- Dyestuff and preparing same, Azo. E. Fischer and C. E. Müller. 1,706,484; Mar. 26.
- Dyestuff and preparing the same, Indigoid. E. Hoffa, H. Heyna, and F. Müller. 1,730,209; Oct. 1.
- Dyestuff containing chromium, Azo. H. Kämmerer. 1,727,468; Sept. 10.
- Dyestuff, Dianthraquinonylamine sulphonic acid. W. Mieg and H. Raeder. 1,735,123; Nov. 12.
- Dyestuff, Mordant trisazo. K. Holzach. 1,728,996; Sept. 24.
- Dyestuff, New vat. P. Nawiasky and E. Krauch. 1,729,006; Sept. 24.
- Dyestuff of the anthraquinone series, New cotton. F. Baumann. 1,730,186; Oct. 1.
- Dyestuff of the isodibenzanthrone series. A. Lüttringhaus, H. Neresheimer, and H. Wolff. 1,704,983; Mar. 12.
- Dyestuff of the naphthophenazine series obtained from 3-arylamino-1,8-naphthosultam compounds. W. Neelmeier and T. Mocken. 1,723,199; Aug. 6.
- Dyestuff preparation and making same. F. Felix and Allemann. 1,733,057; Oct. 22.
- Dyestuff preparation and making same. B. Mayer and H. Siebenbürger. 1,715,242; May 28.
- Dyestuff, Trisazo. E. Fellmer. 1,736,905; Nov. 26.
- Dyestuff, Trisazo. H. Schweitzer and J. Huismann. 1,730,692; Oct. 8.
- Dyestuff, Vat. H. Neresheimer. 1,703,948; Mar. 5.
- Dyestuff, Yellow monoazo. H. Wagner and E. Fischer. 1,730,179; Oct. 1.
- Dyestuffs and coloring composition. E. R. Schlatter. 1,710,076; Apr. 23.
- Dyestuffs and making same, Indigoid. B. Mayer and J. Würger. 1,707,918; Apr. 2.
- Dyestuffs and making same, Vat. G. Kalischer and W. Zerweck. 1,705,817; Mar. 19.
- Dyestuffs and making same, Water-soluble arylazodiarylamine. H. Eichwede, E. Fischer, and A. Sieglitz. 1,734,246; Nov. 5.
- Dyestuffs and making the same, Green vat. B. Stein, W. Trautner, and R. Berliner. 1,713,680; May 21.
- Dyestuffs and preparing same, Vat. E. Hoffa, H. Heyna, E. Thoma, and O. Hirschel. 1,710,981; Apr. 30.
- Dyestuffs and preparing them, Azo. E. Hoffa, E. Thoma, and H. Heyna. 1,698,884; Jan. 15.
- Dyestuffs and preparing them, Azo. H. Wagner and E. Fischer. 1,731,643; Oct. 15.
- Dyestuffs, Azo. W. Hentrich. 1,732,512; Oct. 22.
- Dyestuffs, Azo. F. Hess. 1,726,266; Aug. 27.
- Dyestuffs, Blue vat. K. Thiess, C. J. Müller, and E. Hoffa. 1,728,987; Sept. 24.
- Dyestuffs by acid condensation of 2-benzanthronyl-1-amino-anthraquinones, Vat. H. Wolff. 1,711,710; May 7.
- Dyestuffs containing chromium, Production of. H. Krzikalla. 1,728,998; Sept. 24.
- Dyestuffs derived from dipthalimido anthraquinones, Preparing. E. G. Beckett and J. Thomas. 1,711,873; May 7.
- Dyestuffs derived from naphthylamine carboxylic acids, Monoazo. L. Laska and F. Weber. 1,702,832; Feb. 19.
- Dyestuffs derived from 2-hydroxynaphthalene-3-carboxylic-acid-arylamides, Manufacture of azo. H. Wagner. Rel7,364; July 2.
- Dyestuffs derived from 2,3-hydroxynaphthoyl-2-amino-3-naphtholethers, Azo. L. Laska and A. Zitscher. 1,725,087; Aug. 20.
- Dyestuffs fast to light and preparing them, Yellow monoazo. H. Wagner and W. Vossen. 1,701,248; Feb. 5.
- Dyestuffs from dihalogenoalkylisatins, Vat indigoid. C. Krauss. 1,698,233; Jan. 8.
- Dyestuffs from dihydroindole-indophenolic bodies, Sulphur. F. Ballauf. 1,725,046; Aug. 20.
- Dyestuffs, Green dischargeable silk. E. Fellmer. 1,699,427; Jan. 15.
- Dyestuffs, Increasing the fastness to light of basic. P. Rabe. 1,736,835; Nov. 26.
- Dyestuffs, Indigoid. J. Haller. 1,709,977; Apr. 23.
- Dyestuffs, Manufacture of azo-. L. Oswald. 1,709,734; Apr. 16.
- Dyestuffs, Manufacture of new sulphur. A. Bérgdolt, W. Neelmeier, and T. Nocken. 1,733,443; Oct. 29.
- Dyestuffs, Manufacture of sulfur. H. Plauson. 1,736,014-15; Nov. 19.
- Dyestuffs, Manufacture of vat. M. P. Schmidt and W. Neugebauer. 1,715,430; June 4.
- Dyestuffs, Manufacture of new. J. Baddiley, P. Dootson, A. Shepherdson, and S. Thornley. 1,734,789; Nov. 5.
- Dyestuffs, Manufacturing. A. Pongratz. 1,725,596; Aug. 20.
- Dyestuffs, New azo. H. Grimmel and H. Clingstein. 1,731,623; Oct. 15.
- Dyestuffs, New azo. W. Hentrich and M. Hardtmann. 1,730,207; Oct. 1.
- Dyestuffs of the anthracene series and making same, Vat. G. Kränzlein and R. Ebert. 1,709,985; Apr. 23.
- Dyestuffs of the anthracene series and making same, Vat. H. Scheyer. 1,709,956; Apr. 23.
- Dyestuffs of the anthraquinone series, Manufacture of vat. W. Mieg. 1,706,933; Mar. 26.
- Dyestuffs of the isodibenzanthrone series, Manufacture of vat. A. Zinke. 1,705,953; Mar. 19.
- Dyestuffs of the isodibenzanthrone series, Producing vat. E. Holzappel and E. and O. Braunsdorf. 1,736,081; Nov. 19.
- Dyestuffs of the pyrone series and making the same. M. Weiler. 1,715,261; May 28.
- Dyestuffs of the stilbene series, Manufacture of substantive. A. Rheiner. 1,708,897; Apr. 9.
- Dyestuffs of the thioindigo series, Preparing. E. Hoffa and H. Heyna. 1,709,982; Apr. 23.
- Dyestuffs of the 2-hydroxynaphthalene-3-carboxylic acid arylamide series. Azo. H. Wagner and O. Sobst. 1,698,898; Jan. 15.
- Dyestuffs on weighted silk and resulting product, Production of azo. R. Konrad. 1,723,183; Aug. 6.
- Dyestuffs, Preparation of esterlike derivatives of vat. M. Bader, C. Sunder, and T. Voltz. 1,727,267-8; Sept. 3.
- Dyestuffs, Producing azo. K. Heusner and M. Simon. 1,725,076; Aug. 20.
- Dyestuffs, Production of anthraquinone. D. G. Rogers. 1,721,318; July 16.
- Dyestuffs, Production of black trisazo. G. Wolfsleben. 1,740,801; Dec. 24.
- Dyestuffs, Production of vat. G. Kalischer and R. Müller. 1,697,361; Jan. 1.
- Dyestuffs, Production of vat. M. A. Kunz and K. Köberle. 1,714,427; May 21.
- Dyestuffs, Production of vat. W. M. Murch and W. J. Cauwenberg. 1,734,442; Nov. 5.
- Dyestuffs suitable for dyeing wool and leather and making same, Brown. R. Schmidlin. 1,711,860; May 7.
- Dynamo cleaning and cooling device. J. F. Trudeau. 1,719,407; July 2.
- Dynamo-electric machine. W. E. Richard and J. H. Schroeder. 1,706,255; Mar. 19.
- Dynamo-electric machines, Control for. T. F. Barton. 1,698,293; Jan. 8.
- Dynamo plant, Prime mover. R. H. Earle. 1,740,078; Dec. 17.
- Dynamometer. L. G. Nilson. 1,718,175; June 18.
- Dynamometer, Deflection. G. N. Byl. 1,722,036; July 23.
- Dynamometer, Gaseous-fluid. J. Tracy. 1,704,412; Mar. 5.
- Ear curette. L. E. Campbell and C. Brown. 1,737,106; Nov. 26.
- Ear guard. L. E. Barrington. 1,697,102; Jan. 1.
- Ear, Trolley. J. H. Stotlemeyer. 1,729,904; Oct. 1.
- Earpiece. F. H. Coolbroth. 1,733,579; Oct. 29.
- Earth formations, Sampling. E. Koppel. 1,711,797; May 7.
- Earth sampler. A. J. Mason, jr. 1,705,623; Mar. 19.
- Earth, sand, gravel, and manure loader. H. B. Church. 1,720,626; July 9.
- Earth working. W. Turner and P. C. Burton. 1,699,552; Jan. 22.
- Earth-working apparatus. W. A. Perry. 1,711,805; May 7.
- Earth-working attachment. A. P. Scarbrough and C. M. Holt. 1,709,408; Apr. 16.



- Earth-working element, Rotary. T. S. Miller and Q. J. Leong. 1,699,151-2; Jan. 15.
- Easel. H. M. Moses. 1,720,684; July 16.
- Easel. H. M. Rose. 1,709,953; Apr. 23.
- Easel and stand, Folding. H. Zimmerman. 1,700,105; Jan. 22.
- Easel attachment. E. Dymont. 1,710,814; Apr. 30.
- Easel bracket. J. W. Dixon. 1,712,756; May 14.
- Easel bracket. J. W. Dixon. 1,726,545; Sept. 3.
- Easel, Display. E. L. Bradley. Des. 78,728; June 18.
- Easel, Display. C. C. Bruce. 1,718,406; June 25.
- Easel, Photographer's retouching. H. G. Downs. 1,725,856; Aug. 27.
- Easy chair. A. L. Warner. 1,714,936; May 28.
- Eaves-trough hanger. J. W. Lewis. 1,725,809; Aug. 27.
- Eaves-trough hanger. E. Tangard. 1,701,087; Feb. 5.
- Eccentric press. M. Lubich. 1,733,162; Oct. 29.
- Echo suppressor. D. Mitchell. 1,728,247; Sept. 17.
- Echo suppressor. D. Mitchell and H. C. Silent. 1,738,536; Dec. 10.
- Echo suppressor. H. Nyquist and K. W. Pfeiffer. 1,739,606; Dec. 17.
- Echo, Suppressor. S. B. Wright. 1,706,472; Mar. 26.
- Economizer. H. J. Kerr and J. E. Trainer. 1,715,037; May 28.
- Economizer tube. W. Schroers. 1,709,745; Apr. 16.
- Edge finishing machine. F. Ricks and A. E. Richards. 1,711,618; May 7.
- Edge-finishing machine. F. Ricks and A. E. Richards. 1,735,935; Nov. 19.
- Edge-finishing machine. E. M. Spence. 1,701,827; Feb. 12.
- Edge-finishing machine. O. S. Yeaton and M. W. White. 1,697,256; Jan. 1.
- Edge gauge. W. S. Trinder. 1,721,238; July 16.
- Edge roll for application to furniture. H. Hildebrand. 1,719,110; July 2.
- Edge-rounding machine. W. Owen. 1,724,677; Aug. 13.
- Edge-setting machine. A. E. Jerram and F. B. Keall. 1,703,194; Feb. 26.
- Edge turner. G. De Santis. 1,723,543; Aug. 6.
- Edge-turning machine. J. E. Myers. 1,733,199; Oct. 29.
- Edger, Gang. W. B. Grueter. 1,704,970; Mar. 12.
- Edgers and the like, Shifting mechanism for. A. L. Thomas. 1,734,887; Nov. 5.
- Edging lawns, Device for. B. F. Randleman. 1,714,817; May 28.
- Edging machine. P. S. Legge. 1,741,321; Dec. 31.
- Edible curls, Apparatus for producing. M. A. Wolf. 1,713,585; May 21.
- Edible roll. F. E. Burdick. 1,726,946; Sept. 3.
- Educational apparatus. M. A. Mahler. 1,700,946; Feb. 5.
- Educational apparatus. M. N. States. 1,705,315; Mar. 12.
- Educational appliance. M. S. Gleason. 1,699,289; Jan. 15.
- Educational appliance. N. Y. Troidl. 1,696,987; Jan. 1.
- Educational computing device. W. Walker. 1,720,499; July 9.
- Educational device. A. V. Cooper, sr. 1,734,115; Nov. 5.
- Educational device. R. H. Garman. 1,735,456; Nov. 12.
- Educational device. F. B. Knight. 1,732,815; Oct. 22.
- Educational device. A. S. Mooney. 1,732,980; Oct. 22.
- Educational device. J. S. Newman. 1,729,518; Sept. 24.
- Educational device. N. Y. Troidl. 1,696,988; Jan. 1.
- Educational device. E. Umbeck. 1,734,544; Nov. 5.
- Eductor for ventilating internal-combustion engines. A. H. Leipert. 1,704,297; Mar. 5.
- Effecting soaring flights and aeroplane therefor. A. Halsted. 1,737,191; Nov. 26.
- Egg and cream beater. L. Byland. 1,102,862; Feb. 19.
- Egg beater. H. J. Carlson. 1,718,111; June 18.
- Egg beater. T. L. Frates. 1,719,973; July 9.
- Egg beater. I. L. Hoffer. 1,730,506; Oct. 8.
- Egg beater. T. J. Madigan. 1,736,542; Nov. 19.
- Egg beater. T. M. Nippert. 1,710,836; Apr. 30.
- Egg beater and the like. W. J. Goundry. 1,711,409; Apr. 30.
- Egg-boiling cup. H. S. La Duke. 1,736,122; Nov. 19.
- Egg-breaking device. G. Uhlig. 1,727,260; Sept. 3.
- Egg-candling device. M. M. Mauer. 1,740,661; Dec. 24.
- Egg carrier. J. E. Walsh. 1,718,394; June 25.
- Egg carrier and feed box, Combined. J. Tomoda. 1,715,725; June 4.
- Egg case. J. F. Burson. 1,731,841; Oct. 15.
- Egg case. O. F. N. Rosengren. 1,719,381; July 2.
- Egg case. G. Tiemann. 1,720,579; July 9.
- Egg-cleaning machine. W. McDonald. 1,730,157; Oct. 1.
- Egg-dispensing device. J. Tomoda. 1,715,726; June 4.
- Egg-handling apparatus. L. L. Gillespie. 1,741,929; Dec. 31.
- Egg opener. J. W. Wright. 1,705,950; Mar. 19.
- Egg product and producing the same. A. K. Epstein. 1,730,879; Oct. 8.
- Egg product and producing the same. A. K. Epstein. 1,737,365; Nov. 26.
- Egg separator. J. G. Dow and T. P. Galvin. 1,729,067; Sept. 24.
- Egg-shipping package. W. S. Lowe. 1,708,890; Apr. 9.
- Egg-sizing machine by weight. J. W. Wyland. 1,728,463; Sept. 17.
- Egg tester. E. R. George. 1,739,899; Dec. 17.
- Egg tester. J. W. Wyland. 1,728,462; Sept. 17.
- Egg tray for incubators. W. D. Harvey. 1,715,755; June 4.
- Egg tray for incubators. P. Kaiser. 1,716,892; June 11.
- Ejector and operating the same. A. Delas. 1,732,930; Oct. 22.
- Ejector for excavator dippers. H. Bruning. 1,704,425; Mar. 5.
- Ejector, Saliva. N. C. Gunter. 1,698,331; Jan. 8.
- Ejecting ice cream and the like from containers, Apparatus for. W. J. Baynes. 1,738,814; Dec. 10.
- Ejecting ice cream from containers, Apparatus for. W. J. Baynes. 1,740,386; Dec. 17.
- Elastic-connection regulator. W. S. James. 1,697,065; Jan. 1.
- Elastic coupling. N. Georgevitch. 1,716,225; June 4.
- Elastic coupling. P. Minck. 1,737,321; Nov. 26.
- Elastic fabric. G. F. Townsend. 1,716,843; June 11.
- Elastic fabric, Smooth-face. L. B. Chisholm. 1,716,816; June 11.
- Elastic member. E. Speidel. 1,708,853; Apr. 9.
- Elastic member. E. Speidel. 1,709,198; Apr. 16.
- Elastic metal stringing, Making. W. A. Larned. 1,700,170; Jan. 29.
- Elastic strands, Making covered. L. B. Chisholm. 1,726,099; Aug. 27.
- Elastic woven fabric. T. F. Moore. 1,707,956; Apr. 2.
- Elasticized fabric. J. Mayer. 1,741,530; Dec. 31.
- Electric air heater. W. W. Hicks. Des. 77,771; Feb. 19.
- Electric air heater. A. J. Kercher. 1,704,479; Mar. 5.
- Electric apparatus. W. E. Paul. 1,706,810; Mar. 26.
- Electric apparatus, Protection of. M. Buchholz. 1,717,366; June 18.
- Electric appliances to conduit boxes, Device for securing. H. A. Selah. 1,738,968; Dec. 10.
- Electric arc furnace. O. L. Mills. 1,719,558; July 2.
- Electric-arc welding transformer and controlling device. R. Sarazin. 1,720,446; July 9.
- Electric arcs, Regulating. A. E. Paige. 1,712,227; May 7.
- Electric attachment fitting. L. Barnett. 1,730,873; Oct. 8.
- Electric battery. H. M. R. Dam. 1,739,784; Dec. 17.
- Electric bell. H. W. Shonnard. 1,724,524; Aug. 13.
- Electric boiler. M. O. Schur and O. L. Robertson. 1,738,733; Dec. 10.
- Electric bulb. G. Niebel. Des. 77,910; Mar. 5.
- Electric bulb or similar article. S. Ciffo. Des. 79,130; Aug. 6.
- Electric bulb or similar article. G. Niebel. Des. 77,852-3; Feb. 26.
- Electric bulb or similar article. G. Niebel. Des. 78,120; Mar. 26.
- Electric bulb or similar article. G. Niebel. Des. 78,713; June 11.
- Electric bulb or similar article. G. Niebel. Des. 79,471-7; Sept. 24.
- Electric call apparatus. C. E. Prince. 1,731,983; Oct. 15.
- Electric cell. C. W. Marsh. 1,727,552; Sept. 10.
- Electric chamber. E. Stallworth. 1,727,842; Sept. 10.
- Electric cigarette and cigar lighting machine, Pocket. H. Bucknell, jr., S. Chapin, and C. A. McKelvey. 1,721,203; July 16.
- Electric-circuit connector. A. F. F. Gilson. 1,733,591; Oct. 29.
- Electric-circuit controller. L. H. McCarron. 1,704,300; Mar. 5.
- Electric-circuit controller. B. N. Winegarden. 1,704,378; Mar. 5.
- Electric-circuit switch. H. W. Vickery. 1,717,285; June 11.
- Electric circuits, Device for protecting. O. Dreyer. 1,703,439; Feb. 26.
- Electric conductor and clamp, Movable. C. S. Davis. 1,727,814; Sept. 10.
- Electric conductor for electric machines and apparatus. I. Kouba. 1,741,420; Dec. 31.
- Electric conductor, Semisolid. H. N. Miller. 1,720,371; July 9.
- Electric conductor with artificially increased self-inductance. U. Meyer. 1,721,785; July 23.
- Electric connection. H. E. Smith. 1,739,019; Dec. 10.
- Electric connector. J. C. Belden. 1,731,039; Oct. 8.
- Electric connector. C. Fischer. 1,731,893; Oct. 15.
- Electric connector. C. Fischer. 1,731,973; Oct. 15.
- Electric connector. J. Lofgren. 1,729,949; Oct. 1.
- Electric connector. E. J. Schlatter. 1,716,326; June 4.
- Electric connecting device, Multiple. B. F. Conner. 1,717,836; June 18.
- Electric contact. K. Müller. 1,726,913; Sept. 3.
- Electric contact in rail joints. C. Pascal. 1,736,217; Nov. 19.
- Electric contact, Steering-wheel. L. Hamer. 1,718,903; June 25.
- Electric contacting device for railways. S. E. Johnson. 1,721,156; July 16.
- Electric control. H. L. Sampson. 1,728,983; Sept. 24.
- Electric control for electrically-driven vehicles. T. S. Kemble. 1,724,602; Aug. 13.
- Electric control switch. C. C. Crispin. 1,703,724; Feb. 26.
- Electric control system. L. Kraft and L. Mayr. 1,734,257; Nov. 5.
- Electric control system. T. U. White. 1,714,974; May 28.
- Electric controller. N. D. Levin. 1,726,846; Sept. 3.
- Electric controller. C. W. Wyman. 1,718,269; June 25.
- Electric controlling apparatus. E. E. Littlefield. 1,709,083; Apr. 16.
- Electric-cord take-up. T. M. Burns. 1,712,197; May 7.
- Electric-cord take-up. A. L. Umscheid. 1,697,033; Jan. 1.



- Electric corn popper. V. F. Vroman. 1,701,959; Feb. 12.
- Electric couplings. J. C. McCune. 1,733,196; Oct. 29.
- Electric crystal, Piezo-. A. H. Taylor and A. Crossley. 1,724,232; Aug. 13.
- Electric current, Apparatus for controlling. G. H. Hart. 1,708,618; Apr. 9.
- Electric-current-control apparatus. S. Ruben. 1,705,539; Mar. 19.
- Electric-current converter. N. M. Hopkins. 1,703,934; Mar. 5.
- Electric-current distribution. G. R. Brown. 1,698,389; Jan. 8.
- Electric-current distributor, F. W. Brooks, sr. 1,721,585; July 23.
- Electric-current rectifier. S. Ruben. 1,723,525; Aug. 6.
- Electric-current rectifier. S. Ruben. 1,723,579-80; Aug. 6.
- Electric current tap and connector fitting. H. Hertzberg. 1,709,431; Apr. 16.
- Electric currents by means of transformers such as induction coils, Production of high-tension. W. J. Brown and E. Y. Robinson. 1,725,053; Aug. 20.
- Electric currents of constant frequency, Maintaining. W. G. Cady. Re17,245-7; Mar. 26.
- Electric currents, Separating desired from undesired. E. G. Gage. Re17,360; July 2.
- Electric cut-out. C. W. Floring. 1,706,150; Mar. 19.
- Electric discharge apparatus. D. C. Prince. 1,723,888; Aug. 6.
- Electric discharge device. L. C. Billotte and E. Lipson. 1,727,956; Sept. 10.
- Electric-discharge device. L. W. Evans. 1,729,715; Oct. 1.
- Electric discharge device. H. W. Jackson. 1,738,475; Dec. 3.
- Electric discharge device. F. W. Peek, jr. 1,717,850; June 18.
- Electric-discharge device. F. W. Peek, jr. 1,734,917; Nov. 5.
- Electric discharge device. R. B. Prindle. 1,716,931; June 11.
- Electric discharge device. C. G. Smith. 1,731,945; Oct. 15.
- Electric discharge device. W. C. White. 1,712,370; May 7.
- Electric discharge devices, Preparing. E. E. Charlton. 1,738,420; Dec. 3.
- Electric discharge tube. G. Holst and E. Oosterhuis. 1,701,849; Feb. 12.
- Electric discharge tube. F. Skaupy. 1,712,407; May 7.
- Electric distributing device for floors. W. B. Sherman. 1,715,474; June 4.
- Electric distribution. H. Bany. 1,729,699; Oct. 1.
- Electric distribution system. L. F. Kennedy. 1,727,989; Sept. 10.
- Electric distribution, System of. H. Bany. 1,718,517; June 25.
- Electric distribution, System of. T. F. Barton. 1,713,211; May 14.
- Electric drill. G. R. Wilcox. Des. 80,156; Dec. 17.
- Electric drive. C. A. Herman. 1,719,226; July 2.
- Electric drive. E. Riecke. 1,733,074; Oct. 22.
- Electric drive for generator sets, Combined steam. R. E. Royle. 1,714,449; May 21.
- Electric drive for machines by the aid of frequency converters. H. Schneider. 1,723,528; Aug. 6.
- Electric drive, Internal-combustion. L. W. Webb and B. Woodward. 1,734,931; Nov. 5.
- Electric dry cells, Assembling of. E. J. Reich. 1,729,843; Oct. 1.
- Electric energy, System for the distribution of. O. Heinisch and A. Riedl. 1,722,419; July 30.
- Electric fixture. H. T. Paiste. 1,709,804; Apr. 16.
- Electric fixture. J. Weber. 1,715,804; June 4.
- Electric-fixture outlet. F. T. Ryan. 1,701,935; Feb. 12.
- Electric flasher. W. G. Keith. 1,738,713-4; Dec. 10.
- Electric flashing device. R. E. Ollerenshaw. 1,715,172; May 28.
- Electric foot warmer. E. Gebrs. 1,701,973; Feb. 12.
- Electric foot warmer. W. W. Hicks. 1,704,127; Mar. 5.
- Electric furnace. T. F. Bailly. 1,739,344; Dec. 10.
- Electric furnace. F. W. Brooke. 1,735,419; Nov. 12.
- Electric furnace. P. Brown. 1,737,566; Dec. 3.
- Electric furnace. O. A. Colby. 1,705,717; Mar. 19.
- Electric furnace. O. A. Colby. 1,709,658; Apr. 16.
- Electric furnace. F. T. Cope and R. F. Benzinger. Re17,388; July 30.
- Electric furnace. C. E. Cornelius. 1,741,977; Dec. 31.
- Electric furnace. P. K. Devers. 1,708,833; Apr. 9.
- Electric furnace. H. Eldridge. 1,711,088; Apr. 30.
- Electric furnace. J. R. Eves. 1,741,411; Dec. 31.
- Electric furnace. F. A. J. Fitz Gerald. 1,714,081; May 21.
- Electric furnace. J. J. Frank. 1,736,587; Nov. 19.
- Electric furnace. C. I. Hayes. 1,724,583; Aug. 13.
- Electric furnace. C. L. Ipsen and A. N. Otis. 1,719,888; July 9.
- Electric furnace. B. Long. 1,741,469; Dec. 31.
- Electric furnace. P. L. J. Miguët. 1,728,070; Sept. 10.
- Electric furnace. W. E. Moore. 1,718,172; June 18.
- Electric furnace. A. N. Otis and G. W. Hegel. 1,738,446; Dec. 3.
- Electric furnace. V. Sorrel and L. A. Lafont. 1,734,536; Nov. 5.
- Electric furnace. D. L. Summey. 1,732,917; Oct. 22.
- Electric furnace. R. J. Walker. 1,706,010; Mar. 19.
- Electric furnace. J. C. Weintz. 1,730,103; Oct. 1.
- Electric furnace. J. C. Woodson. 1,697,486; Jan. 1.
- Electric furnace. J. C. Woodson. 1,705,697; Mar. 19.
- Electric-fuse connection and terminal contact. M. Soferman. 1,707,327; Apr. 2.
- Electric generator, Magneto-. E. B. Nowosielski. 1,741,137; Dec. 24.
- Electric grounding connection. W. H. Vibber. 1,719,915; July 9.
- Electric hair-pressing cap. W. G. Johnson. 1,737,460; Nov. 26.
- Electric heater. C. C. Abbott. 1,708,961; Apr. 16.
- Electric heater. C. C. Abbott and W. F. Gelinas. 1,713,249; May 14.
- Electric heater. C. C. Abbott and A. E. Hunt. 1,731,119; Oct. 8.
- Electric heater. W. E. Addicks. 1,731,449; Oct. 15.
- Electric heater. P. F. Apfel. 1,699,323; Jan. 15.
- Electric heater. W. C. Calcott. 1,719,872; July 9.
- Electric heater. J. H. Carmean. 1,723,405; Aug. 6.
- Electric heater. P. B. Crocker. 1,709,340; Apr. 16.
- Electric heater. E. R. Crooker and H. C. Newman. 1,718,412; June 25.
- Electric heater. F. F. Forshee. 1,697,176; Jan. 1.
- Electric heater. A. C. Gilbert. 1,712,001; May 7.
- Electric heater. W. H. Greenfield. Des. 77,441; Jan. 8.
- Electric heater. W. E. Guest. 1,730,203; Oct. 1.
- Electric heater. G. D. Hauser. 1,702,775; Feb. 19.
- Electric heater. G. D. Hauser. 1,724,198; Aug. 13.
- Electric heater. E. F. Hollinger. Des. 77,834; Feb. 26.
- Electric heater. H. R. Humphrey. 1,707,982; Apr. 9.
- Electric heater. H. D. Jernon. 1,727,983; Sept. 10.
- Electric heater. E. S. Johnson. 1,722,579; July 30.
- Electric heater. W. D. Kelley. 1,742,083; Dec. 31.
- Electric heater. W. Langensiepen. 1,720,334; July 9.
- Electric heater. E. N. Lightfoot. 1,699,898; Jan. 22.
- Electric heater. M. W. McArdle. Des. 77,423; Jan. 8.
- Electric heater. S. Morse. 1,738,663; Dec. 10.
- Electric heater. A. B. Pendleton and F. D. Blauvelt. 1,730,042; Oct. 1.
- Electric heater. C. F. Peterson. 1,719,722; July 2.
- Electric heater. F. J. Pioch. 1,708,237; Apr. 9.
- Electric heater. D. U. Powell. 1,720,092; July 9.
- Electric heater. G. V. Schmidt. 1,715,518; June 4.
- Electric heater. L. Shuman. 1,712,522; May 14.
- Electric heater. L. Shuman. 1,715,520; June 4.
- Electric heater. A. H. Simmons. 1,698,282; Jan. 8.
- Electric heater. H. J. Tietz. 1,727,573; Sept. 10.
- Electric heater. R. N. Trane. 1,728,377; Sept. 17.
- Electric heater. E. Unger. 1,696,989; Jan. 1.
- Electric heater. L. H. Veronneau. 1,702,326; Feb. 19.
- Electric heater. F. W. Wandless. 1,713,013; May 14.
- Electric heater. I. Williams. 1,702,583; Feb. 19.
- Electric heater. J. A. Williams and E. Le Quornik. 1,715,109; May 28.
- Electric heater. C. A. Xardell. 1,733,145; Oct. 29.
- Electric heater. F. Yokel. Des. 77,803; Feb. 19.
- Electric heater, Portable. W. E. Lyon. 1,709,223; Apr. 16.
- Electric heater, Portable. L. A. and A. C. Pankratz. 1,730,982; Oct. 8.
- Electric heater, Radiant. F. J. Pioch. 1,739,649; Dec. 17.
- Electric heater, Wall-insert. H. A. Mulvany. 1,720,373; July 9.
- Electric heaters, Radiating element for. H. R. Humphrey. 1,734,382; Nov. 5.
- Electric heating element. S. S. Bolsinger. 1,718,106; June 18.
- Electric heating means. R. Von Brockdorff. 1,715,018; May 28.
- Electric high-tension apparatus. P. Kapitza. 1,710,626; Apr. 23.
- Electric hydro-physio therapeutics, Apparatus for the application of. P. J. Peel. 1,740,624; Dec. 24.
- Electric interference eliminator, Piezo-. E. I. Green. 1,741,863; Dec. 31.
- Electric iron. F. F. Forshee and F. Thornton. 1,728,791; Sept. 17.
- Electric iron. J. A. Guyer. 1,724,927; Aug. 20.
- Electric iron. F. H. Hanley. 1,739,720; Dec. 17.
- Electric-iron stand. L. J. Kelly. 1,727,170; Sept. 3.
- Electric-light bulb, Antitheft. S. F. Bashara and J. W. Cain. 1,738,683; Dec. 10.
- Electric-light fixtures, Bracket arm for. C. W. Logan. Des. 78,166; Apr. 2.
- Electric-light fixtures, Wall plate for. C. W. Logan. Des. 78,164; Apr. 2.
- Electric-lighting fixture. E. C. White. 1,727,149-50; Sept. 3.
- Electric line sections, Device for selective isolation of faulty. R. Bauch, W. Koch, and R. Völzing. 1,724,390; Aug. 13.
- Electric lock. P. R. Forman. 1,724,467; Aug. 13.
- Electric log. H. Hersh. 1,719,266; July 2.
- Electric machine. A. Mutscheller. 1,738,917; Dec. 10.
- Electric machine and winding therefor, Dynamo-. W. H. Powell. 1,706,818; Mar. 26.
- Electric machine, Commutator dynamo. H. Dreghorn. 1,739,445; Dec. 10.
- Electric machine, Dynamo-. S. R. Bergman. 1,723,912; Aug. 6.
- Electric machine, Dynamo-. P. J. Collins. 1,720,208; July 9.
- Electric machine, Dynamo-. R. M. Critchfield. 1,738,171; Dec. 3.
- Electric machine, Dynamo-. C. L. Daun and P. E. Keller. 1,703,087; Feb. 26.
- Electric machine, Dynamo-. V. A. Fynn. 1,732,598; Oct. 22.



- Electric machine, Dynamo-. V. A. Fynn. 1,737,009; Nov. 26.
- Electric machine, Dynamo-. C. H. Haddrell. 1,701,362; Feb. 5.
- Electric machine, Dynamo-. K. L. Hansen. 1,711,844; May 7.
- Electric machine, Dynamo. T. S. Jones. 1,720,731; July 16.
- Electric machine, Dynamo-. A. H. Maggs. 1,738,441; Dec. 3.
- Electric machine, Dynamo. N. Oboukhoff. 1,740,031; Dec. 17.
- Electric machine, Dynamo-. C. A. Parsons and J. Rosen. 1,699,628; Jan. 22.
- Electric machine, Dynamo-. L. Schombourger. 1,719,905; July 9.
- Electric machine, Dynamo. J. H. Staak. 1,721,419; July 16.
- Electric machine, Dynamo-. W. Weiler. 1,717,289; June 11.
- Electric machine, Inclosed dyuamo-. H. Müller. 1,725,667; Aug. 20.
- Electric machine with variable pole members. H. Weinert. 1,711,979; May 7.
- Electric machinery. Minimizing fire in dynamo. J. F. Johnson. 1,722,632; July 30.
- Electric machines, Control for dynamo-. B. W. Jones and C. B. Connelly. 1,706,169; Mar. 19.
- Electric machines, Control of dynamo-. M. A. Whiting. 1,708,747; Apr. 9.
- Electric machines, Control of dynamo-. M. A. Whiting. 1,717,823; June 18.
- Electric machines, Control system for dynamo-. H. R. Patterson. 1,736,982; Nov. 26.
- Electric machines, Regulation of dynamo-. C. A. Nickle. 1,736,618; Nov. 19.
- Electric machines, Winding for dynamo-. P. E. Fletcher. 1,705,726; Mar. 19.
- Electric material and making same. J. De Giovanni. 1,738,044; Dec. 3.
- Electric meter. E. M. Ashworth. 1,726,331; Aug. 27.
- Electric meter. I. F. Kinnard and W. H. Pratt. 1,719,890; July 9.
- Electric meter. A. A. Morton. 1,702,409; Feb. 19.
- Electric meter. G. R. Shuck. 1,731,941; Oct. 15.
- Electric motor. J. M. Allen. 1,738,165; Dec. 3.
- Electric motor. T. R. Arden. 1,715,811; June 4.
- Electric motor. B. F. Bailey. 1,707,423; Apr. 2.
- Electric motor. E. N. Baker. 1,712,065; May 7.
- Electric motor. R. M. Critchfield. 1,733,864; Oct. 29.
- Electric motor. A. F. Godefroy. 1,728,054; Sept. 10.
- Electric motor. R. C. Graseby. 1,733,872; Oct. 29.
- Electric motor. B. B. Holmes. 1,708,093; Apr. 9.
- Electric motor. J. J. Janca. 1,698,500; Jan. 8.
- Electric motor. G. H. Leland. 1,737,595; Dec. 3.
- Electric motor. B. L. McNeerney. 1,725,203; Aug. 20.
- Electric motor. S. Neroni and E. Valoppi. 1,701,051; Feb. 5.
- Electric motor. A. E. Oswald. 1,700,329; Jan. 29.
- Electric motor. A. E. Oswald. 1,713,617; May 21.
- Electric motor. M. L. Plummer. 1,716,182; June 4.
- Electric motor. A. G. Redmond. 1,737,387-9; Nov. 26.
- Electric motor. W. G. Wagenhals. 1,712,533; May 14.
- Electric motor and generator. T. Schou. 1,736,551; Nov. 19.
- Electric motor, Incased. G. L. Fisher. 1,722,284; July 30.
- Electric motors, Centrifugal regulator for. J. Bethenod. 1,725,953; Aug. 27.
- Electric outlet device. H. E. Slade. 1,731,989; Oct. 15.
- Electric panel or distribution board. F. O. Winklehaus. 1,736,028; Nov. 19.
- Electric pick-up device. H. Andrewes. 1,732,427; Oct. 22.
- Electric plowing by direct traction. System of. M. Semenza, S. and M. Mazza, and L. Bolledi. 1,733,242; Oct. 29.
- Electric plug. S. W. Hyatt. 1,715,366; June 4.
- Electric plug attachment. C. R. Mueller. 1,716,001; June 4.
- Electric plugs, Attachment for. W. J. Stott. 1,699,722; Jan. 22.
- Electric-potential detector. C. H. Spangler. 1,701,196; Feb. 5.
- Electric power, Control of. E. F. W. Alexanderson. 1,719,866; July 9.
- Electric power, Control of. E. L. Hough. 1,701,369; Feb. 5.
- Electric power, Method and apparatus for converting. L. A. Hazeltine. 1,702,402; Feb. 19.
- Electric power system. C. P. Brockway. 1,703,056; Feb. 19.
- Electric power system. H. M. Hobart. 1,723,857; Aug. 6.
- Electric pressing appliance. C. A. Brewer. 1,708,079; Apr. 9.
- Electric protective system. H. W. Clothier and R. W. Biles. 1,728,105; Sept. 10.
- Electric rectifying device. M. Lazarus. 1,741,319; Dec. 31.
- Electric reducer. J. Fidalgo, F. Orive, and F. Sansó. 1,701,916; Feb. 12.
- Electric reel switch. W. Hermann. 1,737,309; Nov. 26.
- Electric regulation. J. L. Creveling. 1,725,132; Aug. 20.
- Electric regulation. J. L. Creveling. 1,732,920; Oct. 22.
- Electric regulator. F. A. Byles. 1,713,168; May 14.
- Electric regulator. H. M. Stoller and E. R. Morton. 1,719,491; July 2.
- Electric remote control apparatus for stop valves. F. Sauter. 1,698,174; Jan. 8.
- Electric resistance material. T. A. Swartz and W. P. Uhler. 1,734,309; Nov. 5.
- Electric resistance unit. H. G. Richter. 1,697,406; Jan. 1.
- Electric resistance welding of pipe. W. E. Crawford and R. C. F. Kurtze. 1,739,063; Dec. 10.
- Electric signal. C. A. Ranning. 1,723,708; Aug. 6.
- Electric signaling. H. Chireix. 1,739,948; Dec. 17.
- Electric stamping device. C. E. Denhof. 1,731,651; Oct. 15.
- Electric steam generator. J. S. Lang. 1,723,738; Aug. 6.
- Electric stop motion for drawing frames. W. J. Scott. 1,701,127; Feb. 5.
- Electric strip heater. E. L. Wiegand. 1,721,099; July 16.
- Electric switch. C. D. Ainsworth. 1,729,860; Oct. 1.
- Electric switch. C. D. Ainsworth. 1,737,630; Dec. 3.
- Electric switch. C. D. Ainsworth. 1,740,558; Dec. 24.
- Electric switch. A. O. Appelberg. 1,741,600; Dec. 31.
- Electric switch. R. W. Armstrong and I. E. McCabe. 1,723,758; Aug. 6.
- Electric switch. A. O. Austin. 1,740,640; Dec. 24.
- Electric switch. T. M. Avery. 1,731,188; Oct. 8.
- Electric switch. A. E. Bailey, jr. 1,701,352; Feb. 5.
- Electric switch. J. S. Baker. 1,699,517; Jan. 22.
- Electric switch. J. S. Baker. 1,725,174; Aug. 20.
- Electric switch. F. J. Bast. 1,719,959; July 9.
- Electric switch. K. Bauerschmidt. 1,706,133; Mar. 19.
- Electric switch. H. G. Baxter and F. von Hoorn. 1,740,533; Dec. 24.
- Electric switch. R. Bigenwald. 1,728,031; Sept. 10.
- Electric switch. L. W. Bond. 1,717,307; June 11.
- Electric switch. C. D. Bramming. 1,740,535; Dec. 24.
- Electric switch. W. W. Brown. 1,723,915; Aug. 6.
- Electric switch. G. Bruhlmann. 1,727,631; Sept. 10.
- Electric switch. A. W. Burke. 1,719,096; July 2.
- Electric switch. G. A. Burnham. 1,718,809; June 25.
- Electric switch. J. C. Clinton. 1,709,775; Apr. 16.
- Electric switch. E. E. F. Creighton. 1,724,396; Aug. 13.
- Electric switch. C. S. Cross. 1,720,627; July 9.
- Electric switch. C. S. Cross and C. A. Smith. 1,720,511; July 9.
- Electric switch. R. H. Cunningham. 1,704,176; Mar. 5.
- Electric switch. H. A. Douglas. 1,700,031; Jan. 22.
- Electric switch. H. A. Douglas. 1,711,836; May 7.
- Electric switch. H. A. Douglas. 1,717,918; June 18.
- Electric switch. H. A. Douglas. 1,723,683; Aug. 6.
- Electric switch. H. A. Douglas. 1,739,788; Dec. 17.
- Electric switch. L. F. Forselle. 1,709,068; Apr. 16.
- Electric switch. H. J. L. Frank. 1,703,663; Feb. 26.
- Electric switch. H. G. French. 1,706,113; Mar. 19.
- Electric switch. F. W. Gay. 1,736,528; Nov. 19.
- Electric switch. A. C. Gaylor. 1,739,835; Dec. 17.
- Electric switch. B. E. Getchell. 1,714,086; May 21.
- Electric switch. R. W. Goff. 1,726,392; Aug. 27.
- Electric switch. H. Y. Haight. 1,708,695; Apr. 9.
- Electric switch. H. J. Hammerly. 1,740,558; Dec. 24.
- Electric switch. W. H. Harrington. 1,704,568; Mar. 5.
- Electric switch. H. R. Harrison. 1,723,933; Aug. 6.
- Electric switch. H. C. Heath, E. D. Regis, and H. G. Rudick. 1,701,408; Feb. 5.
- Electric switch. A. B. Hendricks, jr. 1,741,296; Dec. 31.
- Electric switch. C. W. Hewlett. 1,731,133; Oct. 8.
- Electric switch. B. F. W. Heyer. 1,729,385; Sept. 24.
- Electric switch. J. D. Hilliard. 1,699,144; Jan. 15.
- Electric switch. J. D. Hilliard. 1,706,782; Mar. 26.
- Electric switch. J. D. Hilliard. 1,724,838; Aug. 13.
- Electric switch. J. D. Hilliard. 1,725,641; Aug. 20.
- Electric switch. J. D. Hilliard. 1,728,829; Sept. 17.
- Electric switch. J. D. Hilliard. 1,733,017; Oct. 22.
- Electric switch. W. R. Huttlinger. 1,697,008; Jan. 1.
- Electric switch. C. L. Jones. 1,740,307; Dec. 17.
- Electric switch. W. H. Keir. 1,732,723; Oct. 22.
- Electric switch. G. N. Lemmon. 1,700,268; Jan. 29.
- Electric switch. W. Lindsay. 1,706,793; Mar. 26.
- Electric switch. W. Lindsay. 1,733,230; Oct. 29.
- Electric switch. J. Lofgren. 1,725,535; Aug. 20.
- Electric switch. M. P. Luther. 1,710,173; Apr. 23.
- Electric switch. H. W. Lyon. 1,734,912; Nov. 5.
- Electric switch. J. N. Mahoney. 1,737,663; Dec. 3.
- Electric switch. A. D. McGibbon. 1,706,627; Mar. 26.
- Electric switch. G. J. Meuer. 1,717,057; June 11.
- Electric switch. G. J. Meuer. 1,731,932; Oct. 15.
- Electric switch. G. J. Meuer and A. H. Fleet. 1,724,675; Aug. 13.
- Electric switch. E. F. Miner. 1,704,401; Mar. 5.
- Electric switch. H. I. Morris. 1,726,675; Sept. 3.
- Electric switch. H. F. Morse. 1,718,478; June 25.
- Electric switch. A. H. Nero. 1,702,220; Feb. 12.
- Electric switch. A. H. Nero. 1,704,625; Mar. 5.
- Electric switch. H. E. Norviel. 1,716,383; June 11.
- Electric switch. H. E. Norviel. 1,730,233; Oct. 1.
- Electric switch. H. H. Oetjen. 1,737,767; Dec. 3.
- Electric switch. J. Pfeifer. 1,708,431; Apr. 9.
- Electric switch. L. A. M. Phelan. 1,704,371; Mar. 5.
- Electric switch. W. K. Rankin. 1,724,776; Aug. 13.
- Electric switch. J. L. Reinartz. 1,715,948; June 4.
- Electric switch. R. Renke. 1,718,489; June 25.
- Electric switch. C. W. Rice. 1,706,746; Mar. 26.
- Electric switch. J. V. Schafer. 1,717,940; June 18.
- Electric switch. C. F. Schwennker. 1,728,836; Sept. 17.
- Electric switch. W. M. Scott. 1,725,106; Aug. 20.
- Electric switch. T. M. Snyder. 1,731,756; Oct. 15.
- Electric switch. A. G. Steinmayer. 1,716,987; June 11.
- Electric switch. G. Stern. 1,708,744; Apr. 9.



- Electric switch. O. C. Traver. 1,728,020; Sept. 10.  
 Electric switch. H. Trencham, H. C. Heath, and C. W. Newton. 1,718,501; June 25.  
 Electric switch. V. A. Trier. 1,728,579; Sept. 17.  
 Electric switch. H. B. Trott. 1,713,199; May 14.  
 Electric switch. H. L. Van Valkenburg. 1,698,037; Jan. 8.  
 Electric switch. G. B. Wadsworth. 1,715,108; May 28.  
 Electric switch. G. Wheat. 1,699,214; Jan. 15.  
 Electric switch. W. G. Williams. 1,702,287; Feb. 19.  
 Electric switch and operating electromagnet therefor, Air-break. G. W. O'Keeffe. 1,731,201; Oct. 8.  
 Electric-switch attachment. C. G. Fisher. 1,699,392; Jan. 15.  
 Electric switch, Heat-controlled. J. W. Layman. 1,735,614; Nov. 12.  
 Electric switch, Heavy-duty. G. A. Burnham. 1,737,636; Dec. 3.  
 Electric switch, Hermetically-sealed. I. E. McCabe and R. W. Armstrong. 1,705,989; Mar. 19.  
 Electric switch, Inclosed. J. Sachs. 1,736,370; Nov. 19.  
 Electric-switch installation. S. W. Manger. 1,723,876; Aug. 6.  
 Electric-switch operating system. C. D. Ainsworth. 1,729,859; Oct. 1.  
 Electric switch, Pneumatically-operated. G. Meyfarth. 1,711,273; Apr. 30.  
 Electric switch, Quick-action. A. J. Weall. 1,713,201; May 14.  
 Electric switch, Thermostatic. H. J. Sauvage. 1,717,628; June 18.  
 Electric switch, Venting. A. E. Greene. 1,741,839; Dec. 31.  
 Electric switches and other mechanism, Operating. A. C. Durdin. 1,732,577; Oct. 22.  
 Electric switching. J. W. Stocking. 1,721,478; July 16.  
 Electric switching arrangement. W. K. Kearsley. 1,740,405; Dec. 17.  
 Electric switching device. J. A. Widmer. 1,715,339; May 28.  
 Electric switching mechanism. H. A. Douglas. 1,710,411; Apr. 23.  
 Electric switching system, Automatic. F. Aldendorff. 1,712,243; May 7.  
 Electric system. J. L. Creveling. 1,705,664; Mar. 19.  
 Electric system. H. S. Holmes. 1,698,723; Jan. 15.  
 Electric system for pipe-organ coupler control. G. G. Garman. 1,721,110; July 16.  
 Electric time switch, Revolving automatic. H. O. Brown. 1,726,174; Aug. 27.  
 Electric traction. G. H. Fletcher. 1,704,243; Mar. 5.  
 Electric train system. E. W. Swartwout. 1,710,326; Apr. 23.  
 Electric transmission of written characters. H. Pein. 1,715,781; June 4.  
 Electric tube, Photo-. H. E. Metcalf. 1,738,957; Dec. 10.  
 Electric tube, Vacuum. E. Y. Robinson. 1,712,402; May 7.  
 Electric valve. F. E. Summers. 1,733,519; Oct. 29.  
 Electric vaporizing attachment. E. Kosanek. 1,731,671; Oct. 15.  
 Electric vibratory device. S. W. Moon. 1,738,538; Dec. 10.  
 Electric voltages, Regulating. H. Grob. 1,700,040; Jan. 22.  
 Electric wall fitting, Combination. T. A. Both. 1,730,600; Oct. 8.  
 Electric water heating. L. P. Hynes. 1,698,596; Jan. 8.  
 Electric-wave transmission system. G. H. Stevenson. 1,714,697; May 28.  
 Electric wire tap. L. Ludwig. 1,709,357; Apr. 16.  
 Electric wires, Ornamental conductor for. R. C. Schemmel. 1,713,302; May 14.  
 Electric writing machine. A. Leyvraz. 1,732,370; Oct. 22.  
 Electrical actuating means for clocks and other instruments. G. P. Cowles. 1,734,941; Nov. 5.  
 Electrical air conditioning and circulating device. W. H. C. Ness. 1,716,791; June 11.  
 Electrical annealing. M. Farmer. 1,739,958; Dec. 17.  
 Electrical apparatus. H. M. Aclay. 1,708,859; Apr. 9.  
 Electrical apparatus. D. K. Baxter. 1,731,521; Oct. 15.  
 Electrical apparatus. D. C. Bettison. 1,741,007; Dec. 24.  
 Electrical apparatus. L. H. Burnham. 1,723,839; Aug. 6.  
 Electrical apparatus. H. H. Dow. 1,697,418; Jan. 1.  
 Electrical apparatus. J. C. Federle. 1,735,163; Nov. 12.  
 Electrical apparatus. P. H. Geiger. 1,725,709; Aug. 20.  
 Electrical apparatus. L. S. Keilholtz and E. J. Barney. 1,701,569; Feb. 12.  
 Electrical apparatus. J. M. Kendall. 1,701,374; Feb. 5.  
 Electrical apparatus. J. Kubler. 1,722,149; July 23.  
 Electrical apparatus. K. C. Randall. 1,735,179; Nov. 12.  
 Electrical apparatus. C. J. Rodman and A. H. Maude. 1,697,141; Jan. 1.  
 Electrical apparatus. W. H. F. Schmieding. 1,719,141; July 2.  
 Electrical apparatus. C. G. Smith. 1,714,402-5; May 21.  
 Electrical apparatus. F. F. Starr. 1,716,389; June 11.  
 Electrical apparatus. F. F. Starr. 1,719,089; July 2.  
 Electrical apparatus. F. F. Starr. 1,738,542; Dec. 10.  
 Electrical apparatus. W. E. Wendt. 1,727,421; Sept. 10.  
 Electrical-apparatus casing. W. J. Dickinson. 1,725,623; Aug. 20.  
 Electrical apparatus, Coin-controlled. C. H. Perkins. 1,739,858; Dec. 17.  
 Electrical apparatus for canterizing or heating body tissues. R. Nauth. 1,724,503; Aug. 13.  
 Electrical apparatus for persons defective in hearing. H. Sell. 1,709,747; Apr. 16.  
 Electrical apparatus, Incased. S. J. Brune. 1,723,916; Aug. 6.  
 Electrical brush or contact and producing same, Composite. W. B. Brady. 1,719,963; July 9.  
 Electrical-circuit-connecting device. F. F. Williams. 1,717,329; June 11.  
 Electrical coils and system employing such coils. G. W. Elmen. 1,715,542; June 4.  
 Electrical conduction, Method and apparatus for causing. C. G. Smith. 1,714,406; May 21.  
 Electrical conductor. H. Jordan. 1,740,403; Dec. 17.  
 Electrical conductor and forming the same, Covered multiple-strand. J. Hunter. 1,714,716; May 28.  
 Electrical conductor and making same. G. T. Jones. 1,702,652; Feb. 19.  
 Electrical conductor and making same. V. L. Ronci. 1,722,016; July 23.  
 Electrical conductors, Making insulated. T. B. Huestis. 1,736,444; Nov. 19.  
 Electrical conductors or tubes, Connector for hollow. J. Zagorski. 1,706,973; Mar. 26.  
 Electrical conductors, Process and mechanism for connecting. J. B. Dempsey. 1,705,964; Mar. 19.  
 Electrical conductors, Supporting and bonding messenger cables and conduits for. R. G. Williams. 1,725,120; Aug. 20.  
 Electrical conduits and the like, Coupling means for. A. Kipnis. 1,717,389; June 18.  
 Electrical connector. E. H. Boone. 1,725,747; Aug. 27.  
 Electrical connector. G. A. Gillen. 1,742,160-1; Dec. 31.  
 Electrical connector. J. M. Gribble. 1,697,954; Jan. 8.  
 Electrical connector. L. Gross. 1,729,613; Oct. 1.  
 Electrical connector. J. W. Hamilton. 1,735,316; Nov. 12.  
 Electrical connector. B. A. Lundy. 1,726,991; Sept. 3.  
 Electrical connector. L. Mayer. 1,714,178; May 21.  
 Electrical connector. R. S. Piper. 1,734,145; Nov. 5.  
 Electrical connector. H. L. Stanton and A. M. Crawford. 1,704,350; Mar. 5.  
 Electrical connector. J. Taylor. 1,698,379; Jan. 8.  
 Electrical connector. P. F. Williams. 1,728,911; Sept. 17.  
 Electrical connector device. C. E. Warner. 1,718,504; June 25.  
 Electrical connector for automobile signals. E. L. Bowker. 1,718,628; June 25.  
 Electrical connector, Separable. A. L. Lawrence. 1,736,269; Nov. 19.  
 Electrical connecting and supporting device. E. C. White. 1,734,187; Nov. 5.  
 Electrical connecting device, Protective. A. Ehrler and I. Amundsen. 1,717,919; June 18.  
 Electrical connection. G. Gallo P. 1,740,294; Dec. 17.  
 Electrical connection. C. F. Goudy. 1,734,432; Nov. 5.  
 Electrical connection. E. Hediger. 1,712,477; May 7.  
 Electrical connection clip. J. H. Lutz. 1,705,579; Mar. 19.  
 Electrical connection for portable electric tools. S. D. Black and A. G. Decker. 1,702,245; Feb. 19.  
 Electrical connection, Separable. T. C. Sawers and H. J. Blair. 1,702,135; Feb. 12.  
 Electrical contact-making device and assembling the same. R. B. Benjamin. 1,726,335; Aug. 27.  
 Electrical contact mechanism. E. A. Mahannah. 1,731,054; Oct. 8.  
 Electrical contacts and other devices, Mechanism for operating. A. S. Newman. 1,737,264; Nov. 26.  
 Electrical control apparatus. C. H. Quinn. 1,699,019; Jan. 15.  
 Electrical control system. H. E. Fox. 1,708,384; Apr. 9.  
 Electrical control system. F. H. Richterkessing. 1,736,801; Nov. 26.  
 Electrical control system. A. R. Ulstrom. 1,741,170; Dec. 31.  
 Electrical control system. R. J. Wensley and T. U. White. 1,726,131; Aug. 27.  
 Electrical controller. W. B. Churcher. 1,706,523; Mar. 26.  
 Electrical controller for conveying systems. R. G. Lockett. 1,725,202; Aug. 20.  
 Electrical controlling apparatus. A. C. Hardy and F. W. Cunningham. 1,721,216; July 16.  
 Electrical controlling device. J. W. Gooderham. 1,738,293; Dec. 3.  
 Electrical converting and measuring system. A. T. Taylor. 1,728,311; Sept. 17.  
 Electrical current tap plug or connector. P. A. Hauenstein. 1,731,661; Oct. 15.  
 Electrical dehydrator. W. O. Eddy. 1,724,263; Aug. 13.  
 Electrical device. J. H. Cohen. 1,710,531; Apr. 23.  
 Electrical device. A. H. Post and S. A. Swanson. 1,722,393; July 30.  
 Electrical device and system. M. J. Johnson. 1,726,182; Aug. 27.  
 Electrical discharge device. L. C. Billotte and E. Lipson. 1,730,053; Oct. 1.  
 Electrical discharge device. W. Bruckel and F. Lauster. 1,701,356; Feb. 5.  
 Electrical-discharge device. K. H. Kingdon. 1,725,281; Aug. 20.  
 Electrical discharge device. I. Langmuir. 1,723,869; Aug. 6.  
 Electrical-discharge devices, Gettering. E. A. Lederer. 1,733,809; Oct. 29.



- Electrical distributing system. J. D. Wood. 1,726,253; Aug. 27.
- Electrical distribution and control means therefor, System of. P. F. Williams. 1,729,755; Oct. 1.
- Electrical distribution system. H. A. Affel. 1,725,691; Aug. 20.
- Electrical distribution system. R. Bauch. 1,740,447; Dec. 24.
- Electrical distribution system. R. Dietze. 1,728,044; Sept. 10.
- Electrical distribution system. F. Grieb. 1,710,256; Apr. 23.
- Electrical distribution system. L. F. Kennedy. 1,722,472; July 30.
- Electrical distribution system. W. Koch. 1,707,269; Apr. 2.
- Electrical distribution system. L. Lyndon. 1,732,609; Oct. 22.
- Electrical distribution system. C. M. Moss. 1,714,722; May 28.
- Electrical distribution system. J. Weinberger. 1,735,148; Nov. 12.
- Electrical distribution system. H. R. Woodrow. 1,703,131; Feb. 26.
- Electrical distribution, System of. T. F. Barton. 1,713,162; May 14.
- Electrical distribution, System of. T. F. Barton. 1,723,911; Aug. 6.
- Electrical distribution, System of. E. C. Raney. 1,710,895; Apr. 30.
- Electrical distribution, System of. F. H. Winter. 1,713,155; May 14.
- Electrical disturbances, Method and apparatus for neutralizing. R. T. Knapp. 1,733,414; Oct. 29.
- Electrical energy, Control of. C. A. Sprague. 1,725,940; Aug. 27.
- Electrical fitting. L. M. Hansmann. 1,737,718; Dec. 3.
- Electrical fixture. J. A. Volk, jr. 1,711,623; May 7.
- Electrical-fixture construction. H. D'Olier, jr. 1,714,399; May 21.
- Electrical-fixture construction. H. J. Morey. 1,735,260; Nov. 12.
- Electrical fixtures with faceplates, Aligning. H. Hubbell. 1,698,231; Jan. 8.
- Electrical fuse block. G. R. Brown. 1,700,582; Jan. 29.
- Electrical gate. F. S. Gardun. 1,700,933; Feb. 5.
- Electrical generating system. F. F. Starr. 1,736,865; Nov. 26.
- Electrical ground anode for electrical distribution system. S. W. Borden. 1,737,562; Dec. 3.
- Electrical heater, Unit. H. E. Somes. 1,712,010; May 7.
- Electrical heating appliance. A. Pfau, jr. 1,699,405; Jan. 15.
- Electrical heating body and manufacturing the same. H. Lohmann. 1,736,745; Nov. 19.
- Electrical impulses, Amplification and reproduction of. R. H. Ranger. 1,717,624; June 18.
- Electrical impulses, Apparatus for producing or recording. L. T. Robinson. 1,728,880; Sept. 17.
- Electrical impulses, System for transmitting. A. Barnay. 1,716,944; June 11.
- Electrical indicating instrument. P. M. Gelatt. 1,723,275; Aug. 6.
- Electrical indicating instrument. W. C. McCoy. 1,705,158; Mar. 12.
- Electrical indicating instrument. W. C. McCoy. 1,719,556; July 2.
- Electrical indicating instrument. H. L. Tanner. 1,741,590; Dec. 31.
- Electrical indicating instrument. E. F. Weston. 1,714,065; May 21.
- Electrical indicating instrument. E. F. Weston. 1,714,202; May 21.
- Electrical indicating instrument and system of control therefor. W. C. McCoy. 1,713,850; May 21.
- Electrical induction apparatus. S. E. Johannesen. 1,698,634; Jan. 8.
- Electrical installation assembling and conductor clamp. H. F. Vaughn and R. R. Terpening. 1,711,912; May 7.
- Electrical instrument. P. G. Edwards and H. W. Herrington. 1,705,560; Mar. 19.
- Electrical instrument. R. H. Krueger. 1,715,374; June 4.
- Electrical instrument. A. C. Loewer. 1,706,701; Mar. 26.
- Electrical insulation. W. F. Doerflinger. 1,721,295; July 16.
- Electrical insulation. H. H. Lowry. 1,714,683; May 28.
- Electrical interlocking system. W. H. Reichard. 1,713,494; May 14.
- Electrical-load-sharing apparatus. W. A. A. Burgess and N. Cook. 1,714,656; May 28.
- Electrical machine. E. B. Phillips. 1,713,089; May 14.
- Electrical machine, Cascade-connected asynchronous. P. Letrilliart. 1,733,810; Oct. 29.
- Electrical machines, Exciter changers for synchronous. J. R. Watson. 1,731,644; Oct. 15.
- Electrical metering system. J. O. Shepherd. 1,699,759; Jan. 22.
- Electrical method. P. S. Bauer. 1,740,146; Dec. 17.
- Electrical method and apparatus. R. N. Conwell. 1,711,776; May 7.
- Electrical motor, Reversible. W. J. Corbett. 1,706,483; Mar. 26.
- Electrical network. R. S. Hoyt. 1,713,603; May 21.
- Electrical network. O. J. Zobel. 1,720,777; July 16.
- Electrical oscillations and apparatus therefor, Reproducing. H. Konheim. 1,698,269; Jan. 8.
- Electrical plate unit. C. A. Henry. 1,721,116; July 16.
- Electrical plug. N. C. Greene. 1,697,237; Jan. 1.
- Electrical plug. R. H. Olley. 1,710,269; Apr. 23.
- Electrical plug connection. E. Knickerbocker. 1,727,347; Sept. 10.
- Electrical power auxiliary stations from a central station, System and apparatus for operating one or more. H. C. Kloninger. 1,741,993; Dec. 31.
- Electrical power unit. W. W. Johnson. 1,700,534; Jan. 29.
- Electrical precipitation, Apparatus for. F. H. Viets and C. H. Weiskopf. 1,741,352; Dec. 31.
- Electrical prospecting device. N. Gella. 1,708,386; Apr. 9.
- Electrical protective device. J. V. Breisky. 1,740,536; Dec. 24.
- Electrical protective device. L. N. Crichton. 1,730,877; Oct. 8.
- Electrical protective device. L. H. Rovere, E. V. Mott, and R. C. Ayers. 1,729,053; Sept. 24.
- Electrical protective system. R. A. Shetzline. 1,715,475; June 4.
- Electrical rectifier. P. H. Geiger. 1,728,537; Sept. 17.
- Electrical rectifiers, Manufacture of. D. G. Ackerly. 1,709,830; Apr. 23.
- Electrical rectifiers, Manufacture of. P. H. Geiger and W. S. Brown. 1,704,734; Mar. 12.
- Electrical rectifying system. J. Jonas. 1,703,110; Feb. 26.
- Electrical rectifying system. H. Shoemaker. 1,723,583; Aug. 6.
- Electrical regulator. F. A. Byles. 1,728,853; Sept. 17.
- Electrical regulator. F. H. Winter. 1,717,293; June 11.
- Electrical relay. C. S. Snavelly and W. B. Wells. Re17,252; Apr. 2.
- Electrical remote control for ordnance. G. G. Oelke. 1,739,608; Dec. 17.
- Electrical reproducer. I. S. Bobrovsky. 1,724,067; Aug. 13.
- Electrical resistance. T. S. Kemble. 1,721,910-11; July 23.
- Electrical resistance and forming the same. H. Pender and J. H. Mueller. 1,739,256; Dec. 10.
- Electrical resistance and the like. E. R. Stockle. 1,704,154; Mar. 5.
- Electrical resistance device. C. W. Wyman. 1,703,809; Feb. 26.
- Electrical resistance unit. S. B. Allen. 1,704,159; Mar. 5.
- Electrical resistance unit. W. E. Duersten. 1,715,824; June 4.
- Electrical resistance unit and manufacturing same. N. L. Eiten. 1,738,141; Dec. 3.
- Electrical servo-motor device, Tuned. M. Chiroul. 1,712,377; May 7.
- Electrical signaling. A. J. Kloneck. 1,703,197; Feb. 26.
- Electrical switch. F. Aldendorff. 1,699,514; Jan. 22.
- Electrical switch. C. Bollinger. 1,722,452; July 30.
- Electrical switch. C. B. Coates. 1,720,541; July 9.
- Electrical switch. W. H. Fabrey. 1,737,924; Dec. 3.
- Electrical switch. R. W. Jolly. 1,739,596; Dec. 17.
- Electrical switch. A. G. Lobley. 1,728,242; Sept. 17.
- Electrical switch. W. A. Moritz. 1,715,422; June 4.
- Electrical switch. L. A. M. Phelan. 1,736,129; Nov. 19.
- Electrical switch. R. L. Smythe. 1,720,860; July 16.
- Electrical switch. A. G. Steilmayer. 1,731,065; Oct. 8.
- Electrical switch. E. H. Weatherhead. 1,725,606; Aug. 20.
- Electrical switch and fuse, Combined. H. Rodin. 1,734,916; Nov. 5.
- Electrical switch, Hybrid. J. R. L. Green. 1,730,764; Oct. 8.
- Electrical system. S. Aoki. 1,717,299; June 11.
- Electrical system. W. F. Bouché. 1,708,865; Apr. 9.
- Electrical system. R. N. Conwell. 1,718,454; June 25.
- Electrical system. L. N. Crichton and S. L. Goldsborough. 1,742,025; Dec. 31.
- Electrical system. L. B. and E. W. Jones and R. G. Battin. 1,737,722; Dec. 3.
- Electrical system. N. J. Perryman. 1,735,473; Nov. 12.
- Electrical system, Automatic. V. G. Apple. 1,697,897; Jan. 8.
- Electrical system for outboard motors. A. Schriel and H. J. Hillborn. 1,734,599; Nov. 5.
- Electrical systems, Interconnection of. F. Grieb. 1,725,633; Aug. 20.
- Electrical testing system. T. C. Henneberger. 1,729,644; Oct. 1.
- Electrical translating apparatus. P. H. Dowling. 1,739,579; Dec. 17.
- Electrical transmission system. L. E. Deering. 1,724,915; Aug. 20.
- Electrical transposition system. H. A. Affel. 1,736,814; Nov. 26.
- Electrical values, Apparatus for varying. A. Lieb. 1,708,546; Apr. 9.
- Electrical winding. F. de Willy. 1,705,396; Mar. 12.
- Electrical winding mechanism. K. Davis. 1,697,495; Jan. 1.
- Electrical wiring system. E. E. Ashley, jr. Re17,290; May 7.
- Electrically-controlled apparatus. A. O. Appelberg. 1,697,040; Jan. 1.
- Electrically-controlled cloth guide and straightener. T. E. Ahern and J. H. Evans. 1,722,261; July 30.



- Electrically controlling the speed and phase of distantly-situated machines and apparatus. M. Jacobson. 1,710,223; Apr. 23.
- Electrically-heated drier. J. Judelson. 1,720,678; July 16.
- Electrically-heated furnace. C. A. Caldwell. 1,710,763; Apr. 30.
- Electrically-heated machine for the brewing of tea, coffee, and like beverages. A. G. Barrow. 1,716,203; June 4.
- Electrically-heated vessel, Double-walled. J. H. Karlson. 1,720,045; July 9.
- Electrically-mounted self-adjusting air foil. W. Stelzer. 1,725,222; Aug. 20.
- Electrically-operated actuating device. A. Wright. 1,702,988; Feb. 19.
- Electricity, Apparatus for generating. Q. V. Distefano. 1,734,245; Nov. 5.
- Electricity for motor vehicles, Conducting. M. H. Goldstein. 1,738,889; Dec. 10.
- Electricity meter. S. Z. de Ferranti. 1,700,669; Jan. 29.
- Electricity meter. R. C. Lanphier and F. C. Holtz. 1,708,972; Apr. 16.
- Electricity meter. R. Pudelko. 1,726,765; Sept. 3.
- Electricity meter, Induction. J. Harris. 1,732,333; Oct. 22.
- Electricity meter. Maximum-load. O. Borel. 1,698,358; Jan. 8.
- Electrochemical means for protecting the interior of pipes against corrosion. R. V. A. Mills. 1,705,197; Mar. 12.
- Electrochemical process for the extraction of copper and zinc from ores. H. S. MacKay. 1,737,425; Nov. 26.
- Electrocutor, Insect. W. M. Frost. 1,730,814; Oct. 8.
- Electrode. W. Irby. 1,722,146; July 23.
- Electrode. J. G. H. Liebel and T. H. Cherry. 1,703,827; Feb. 26.
- Electrode-adjusting mechanism for dehydrators. R. J. Gertzen. 1,731,620; Oct. 15.
- Electrode and making the same, Copper-oxide. E. W. Wescott. 1,711,462; Apr. 30.
- Electrode, Arc generator. H. O. Storm. 1,711,185; Apr. 30.
- Electrode carrier, Furnace. E. Wirz. 1,719,863; July 9.
- Electrode, Cataphoric. C. F. Honey. 1,740,240; Dec. 17.
- Electrode, Cutting. R. W. Holt. 1,738,246; Dec. 3.
- Electrode for alkaline accumulators. A. Levin. 1,708,889; Apr. 9.
- Electrode for desiccation surgery, Caution. F. H. Wappler. 1,717,480; June 18.
- Electrode for determining ion concentration, Tungsten. J. R. Baylis. 1,727,094; Sept. 3.
- Electrode for discharge tubes. W. F. Hendry. 1,715,326; May 28.
- Electrode for electric furnaces. P. L. J. Miguet. 1,728,071; Sept. 10.
- Electrode for electric furnaces. M. O. Sem. 1,723,582; Aug. 6.
- Electrode for vacuum tubes. D. A. Mullaney and J. F. Hendry. 1,721,405; July 16.
- Electrode, Furnace. P. L. J. Miguet. 1,707,406; Apr. 2.
- Electrode installation for electric furnaces. J. E. McLaughlin. 1,715,376; June 4.
- Electrode lead. W. A. Ruggles. 1,706,184; Mar. 19.
- Electrode material. W. B. Geo. 1,707,002; Mar. 26.
- Electrode. Plating and polishing. P. E. Edelman. 1,721,949; July 23.
- Electrode, Rectal and vaginal. H. F. Herwig and M. M. Lynch. 1,704,000; Mar. 5.
- Electrode, Rectifier. C. W. Balke. 1,724,065; Aug. 13.
- Electrode seal for electric furnaces. J. Bruggmann. 1,732,431; Oct. 22.
- Electrode, Thermionic. G. M. J. Mackay. 1,716,545; June 11.
- Electrode vessel, Calomel. D. S. Hake. 1,700,796; Feb. 5.
- Electrodes and making the same. C. G. Fink and R. E. Lowe. 1,740,291; Dec. 17.
- Electrodes, Forming. J. S. Crossley. 1,733,866; Oct. 29.
- Electrodes in electric furnaces, Apparatus and method of controlling. F. X. Noichl and E. Schmidt. 1,737,890; Dec. 3.
- Electrodes, Manufacture of. M. O. Sem and C. W. Söderberg. 1,735,936; Nov. 19.
- Electrodes, Method and machine for making plate. H. D. Madden and J. Kirby. 1,738,658; Dec. 10.
- Electrodes, Salvaging storage-battery. C. B. White. 1,715,262; May 28.
- Electrodepositing apparatus. W. W. McCord. 1,736,857; Nov. 26.
- Electrodeposition, Method and apparatus for. L. C. Turnock. 1,712,284; May 7.
- Electrodeposition of metal. F. K. Bezzenberger. 1,729,607; Oct. 1.
- Electrodeposition of metals. T. W. S. Hutchins. 1,709,268; Apr. 16.
- Electrodeposition of rubber, Process and apparatus for the. J. Porter. 1,702,705; Feb. 19.
- Electro-discharge device. A. Marvrogenis. 1,700,373; Jan. 29.
- Electrodynamical device. A. L. Thuras. 1,707,544; Apr. 2.
- Electrodynamical device. A. L. Thuras. 1,729,806; Oct. 1.
- Electrodynamical transmission system. H. L. Tanner. 1,700,780; Feb. 5.
- Electrodynamically-controlled figure. R. F. Yates. 1,726,283; Aug. 27.
- Electroendosmosis method and apparatus. V. A. Lapenta. 1,711,416; Apr. 30.
- Electrogalvanizing, Apparatus for. P. Jepsen. 1,706,529; Mar. 26.
- Electrolier. T. P. Gilseman. Des. 79,513; Oct. 1.
- Electrolysis reduction cell. H. J. Creighton. 1,712,951; May 14.
- Electrolyte-control carriage. D. W. Davis. 1,733,335; Oct. 29.
- Electrolyte, Polarizing. P. E. Edelman. 1,730,725; Oct. 8.
- Electrolytic and similar treatments, Apparatus for. F. T. Taylor. 1,727,736; Sept. 10.
- Electrolytic apparatus. W. G. Allan. 1,702,924; Feb. 19.
- Electrolytic apparatus. R. C. Benner. 1,706,951; Mar. 26.
- Electrolytic apparatus and method of operation. E. Thomson. 1,701,346; Feb. 5.
- Electrolytic cell. F. H. Buck and P. McRae. 1,720,995-6; July 16.
- Electrolytic cell. R. Edgeworth-Johnstone. 1,738,372; Dec. 3.
- Electrolytic cell. F. A. Eustis. 1,732,797; Oct. 22.
- Electrolytic cell. I. A. Shulimson. 1,721,886; July 23.
- Electrolytic cell and solution therefor. W. H. Grinditch. 1,723,154; Aug. 6.
- Electrolytic cell. New type of. R. L. MacDonald. 1,740,659; Dec. 24.
- Electrolytic cells, Solution for. W. H. Grinditch. 1,723,155; Aug. 6.
- Electrolytic deposition of chromium. R. Auerbach. 1,705,954; Mar. 19.
- Electrolytic device. H. O. Siegmund. 1,705,944; Mar. 19.
- Electrolytic heater. J. Slisz. 1,728,450; Sept. 17.
- Electrolytic operations, Device for controlling. J. Porzel. 1,700,178; Jan. 29.
- Electrolytic precipitation of metals. U. C. Tainton. 1,739,772; Dec. 17.
- Electrolytic production of metallic powders, Apparatus for the. M. A. Adam. 1,728,989; Sept. 24.
- Electrolytic protective means for condensers. A. Kirkaldy. 1,699,974; Jan. 22.
- Electrolytic rectifier. G. D. Bagley. 1,706,950; Mar. 26.
- Electrolytic rectifier. C. W. Balke. 1,710,806; Apr. 30.
- Electrolytic rectifier. C. C. Carpenter. 1,727,963; Sept. 10.
- Electrolytic rectifier. E. F. Lundeen. 1,729,429; Sept. 24.
- Electrolytic rectifier. R. D. Merston. 1,728,691; Sept. 17.
- Electrolytic reduction of sugars to alcohols, Apparatus for carrying out. H. J. Creighton. 1,712,952; May 14.
- Electrolytic relay system. E. L. Holmes. 1,702,404; Feb. 19.
- Electromagnet. R. R. Dunlop. 1,738,528; Dec. 10.
- Electromagnet. J. Geisslinger. 1,708,014; Apr. 9.
- Electromagnet. J. Harris. 1,721,995; July 23.
- Electromagnet. A. B. Kendall. 1,700,228; Jan. 29.
- Electromagnet. E. E. Yaxley. 1,714,336; May 21.
- Electromagnet, Alternating-current. N. K. Andersen. 1,710,761; Apr. 30.
- Electromagnet-controlling means. H. D. Wethling. 1,703,077; Feb. 19.
- Electromagnetic body. R. Swinne. 1,725,026; Aug. 20.
- Electromagnetic chuck. J. Bing. 1,704,783; Mar. 12.
- Electromagnetic circuit breaker, Automatic. W. Klement. 1,714,983; May 28.
- Electromagnetic constants of slow-speed coils, Apparatus for varying the. O. C. Roos. 1,704,215; Mar. 5.
- Electromagnetic contact apparatus. W. Schaffner. 1,714,571; May 28.
- Electromagnetic device. E. Chapman. 1,720,943; July 16.
- Electromagnetic device. P. K. McGill. 1,711,646; May 7.
- Electromagnetic device. H. A. Wallace. 1,716,808; June 11.
- Electromagnetic driving unit. A. I. Abrahams and E. J. Jonssens. 1,711,514; May 7.
- Electromagnetic induction apparatus. F. Dessauer, W. Petersen, and E. Welter. 1,732,715; Oct. 22.
- Electromagnetic means for controlling air brakes. L. D. Bowers. 1,733,396; Oct. 29.
- Electromagnetic operating means. R. W. Goff. 1,726,391; Aug. 27.
- Electromagnetic receiver and transmitter. A. A. Thomas. 1,726,200; Aug. 27.
- Electromagnetic relay. W. B. Churcher. 1,726,424; Aug. 27.
- Electromagnetic relay. A. M. Curtis. 1,700,470; Jan. 29.
- Electromagnetic relay. J. Erickson. 1,699,782; Jan. 22.
- Electromagnetic relay. J. Erickson. 1,716,357; June 4.
- Electromagnetic reproducer for use with gramophone and the like records. J. B. Woodroffe. 1,711,192; Apr. 30.
- Electromagnetic retarded switch. W. L. Nowell. 1,699,014; Jan. 15.
- Electromagnetic separation of concentration of minerals. W. M. Mordey. 1,729,589; Sept. 24.
- Electromagnetic separator. J. Bing. 1,712,808; May 14.
- Electromagnetic stepping mechanism. N. L. Pillion. 1,728,135; Sept. 10.
- Electromagnetic switch. B. E. Getchell. 1,714,085; May 21.
- Electromagnetic translating device. B. F. Miessner. 1,728,278; Sept. 17.
- Electromagnetic unit, Adjustable. S. W. McKellip. 1,697,323; Jan. 1.
- Electromagnetic vibrating device. T. H. Nakken. 1,704,511; Mar. 5.
- Electromagnetic vibratory unit, Duplex. W. Heusser. 1,726,394; Aug. 27.



- Electromagnetic wave energy, Transferring means for. W. Kummerer. 1,706,030; Mar. 19.
- Electromagnetic-wave receiving system. O. C. Roos. 1,707,944-5; Apr. 2.
- Electromagnetically-operated apparatus. B. W. Jones. 1,703,486; Feb. 26.
- Electromechanical interlock. J. Z. Winder. 1,725,041; Aug. 20.
- Electromechanical recording mechanism. E. B. Stephenson. 1,724,322; Aug. 13.
- Electromechanical switching system. F. Aldendorff. 1,725,044; Aug. 20.
- Electromechanical translating device. H. C. Harrison. 1,709,571; Apr. 16.
- Electron device. H. P. Donle. 1,701,840; Feb. 12.
- Electron device. G. T. Thurneyssen. 1,725,945; Aug. 27.
- Electron device and the like adapted for alternating current. R. E. Myers. 1,719,988; July 9.
- Electron-discharge apparatus. E. E. Charlton. 1,728,822; Sept. 17.
- Electron-discharge apparatus. A. W. Hull. 1,721,395; July 16.
- Electron-discharge device. A. I. Crawford. 1,708,939; Apr. 16.
- Electron-discharge device. E. M. Deloraine. 1,700,472; Jan. 29.
- Electron-discharge device. H. P. Donle. 1,712,032; May 7.
- Electron-discharge device. S. Dressler. 1,699,872; Jan. 22.
- Electron-discharge device. E. T. Fisk. 1,720,724; July 16.
- Electron-discharge device. A. Haddock. 1,700,478; Jan. 29.
- Electron-discharge device. R. V. L. Hartley. 1,711,640; May 7.
- Electron-discharge device. W. G. Houskeeper. 1,700,531; Jan. 29.
- Electron-discharge device. A. W. Hull. 1,699,146; Jan. 15.
- Electron-discharge device. F. L. Hunter, Jr. 1,722,468; July 30.
- Electron-discharge device. H. W. Jackson. 1,738,430; Dec. 3.
- Electron-discharge device. J. B. Johnson. 1,733,603; Oct. 29.
- Electron-discharge device. B. F. Miessner. 1,718,059; June 18.
- Electron-discharge device. O. W. Pike. 1,699,119; Jan. 15.
- Electron-discharge device. H. C. Rentschler and J. W. Marden. 1,731,268; Oct. 15.
- Electron-discharge device. V. L. Ronci. 1,700,451-2; Jan. 29.
- Electron-discharge device. P. Schwerin. 1,724,971; Aug. 20.
- Electron-discharge device. D. T. Simonds. 1,740,375; Dec. 17.
- Electron-discharge device. W. C. White. 1,723,904; Aug. 6.
- Electron-discharge device. E. G. Widell. 1,716,159; June 4.
- Electron-discharge device. J. R. Wilson. 1,722,121; July 23.
- Electron-discharge device and making the same. H. J. van der Bijl. 1,738,269; Dec. 3.
- Electron-discharge devices, Controlling energy feed back in. L. L. Jones. 1,713,130; May 14.
- Electron-discharge-tube amplifier system. L. L. Jones. 1,713,131; May 14.
- Electron-discharge tube and manufacturing the same. F. Dessauer. 1,720,172; July 9.
- Electron emitter. H. T. Reeve. 1,719,128; July 2.
- Electron emitter and making the same. E. E. Schumacher. 1,700,454; Jan. 29.
- Electron-emitting cathode. G. L. Hertz. 1,735,080; Nov. 12.
- Electron-emitting material and making the same. W. B. Gero. 1,731,244; Oct. 15.
- Electron-tube apparatus. S. Ruben. 1,740,202; Dec. 17.
- Electronic device. L. S. Baker. 1,706,135; Mar. 19.
- Electronic devices, Manufacturing. L. S. Baker. 1,697,339; Jan. 1.
- Electrooptical system. D. K. Gannett. 1,730,416; Oct. 8.
- Electrooptical transmission. H. E. Ives and J. W. Horton. 1,717,782; June 18.
- Electroplating. O. L. Maag. 1,725,877; Aug. 27.
- Electroplating apparatus. W. E. Belke. 1,738,515; Dec. 10.
- Electroplating apparatus. F. H. Hartzell. 1,697,240; Jan. 1.
- Electroplating apparatus. J. L. Mujica. 1,712,674; May 14.
- Electroplating apparatus. W. J. O'Neill. 1,726,308; Aug. 27.
- Electroplating device. R. B. Shemitz. 1,739,657; Dec. 17.
- Electroplating machine. W. F. Hall. 1,715,357; June 4.
- Electroplating machine. A. H. Hannon. 1,723,480; Aug. 6.
- Electroplating metallic bands, Apparatus for. J. J. Mascuch. 1,717,460; June 18.
- Electroplating process. L. Schulte. 1,717,468; June 18.
- Electroplating rack. N. P. Di Cesare. 1,715,411; June 4.
- Electroplating tank. C. E. Jones. 1,734,909; Nov. 5.
- Electroplating tubes, Process and apparatus for. F. A. Fahrenwald. 1,733,404; Oct. 29.
- Electropneumatic brake. J. C. McCune. 1,727,404; Sept. 10.
- Electropneumatic brake. T. H. Thomas. 1,711,760; May 7.
- Electropneumatic brake. T. H. Thomas. 1,714,056-7; May 21.
- Electropneumatic brake. T. H. Thomas. 1,720,250; July 9.
- Electropneumatic brake. T. H. Thomas. 1,733,210; Oct. 29.
- Electropneumatic interlocking. J. E. McCauley. 1,736,353; Nov. 19.
- Electroresponsive device. H. O. Holte. 1,737,761; Dec. 3.
- Electroresponsive device, Time-element. M. Cr  mer. 1,717,191; June 11.
- Electroresponsive devices, Control system for. E. F. Bliss. 1,698,295; Jan. 8.
- Electroresponsive switch. G. R. Radley. 1,706,042; Mar. 19.
- Electroscope. R. D. Kleeman. 1,716,700; June 11.
- Electroscopic apparatus for testing the conductivity of various materials. H. T. Scott-Huntington. 1,705,480; Mar. 19.
- Electrostatic voltage meter. H. Starke and R. Schroeder. 1,726,866; Sept. 3.
- Electrotherapeutic apparatus. J. H. T. Roberts. 1,728,080; Sept. 10.
- Electrotherapeutic apparatus. M. Wolf. 1,725,555; Aug. 20.
- Electrotherapeutic machine. K. Stoye. 1,740,963; Dec. 24.
- Electrotherapeutic instrument. C. J. and A. B. Johnson. 1,731,627; Oct. 15.
- Electrothermochemical appliance for treating the scalp. J. Robinson. 1,731,504; Oct. 15.
- Electrotype plates, Manufacturing curved. B. J. O'Brian and G. E. Funk. 1,720,430; July 9.
- Element for a lamp-supporting pedestal. A. R. Kann  . Des. 73,933; July 9.
- Elevating apparatus. B. S. Snow. 1,723,713; Aug. 6.
- Elevating apparatus for building materials, etc. J. E. Bushnell. 1,723,721; Aug. 6.
- Elevating device. P. W. Saitta. 1,705,420; Mar. 12.
- Elevating hook, Safety. A. Schillinger. 1,729,188; Sept. 24.
- Elevating lines, Device for. J. T. Hughes. 1,736,599; Nov. 19.
- Elevating means for car doors. F. C. Heinen and K. J. Tobin. 1,720,898; July 16.
- Elevating means for car doors. C. Lute and K. J. Tobin. 1,729,954; Oct. 1.
- Elevating mechanism. R. W. Dinzel. 1,707,212; Mar. 26.
- Elevating mechanism. M. P. Holmes. 1,704,666; Mar. 5.
- Elevator: See—
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| Automobile elevator. | Portable elevator.    |
| Derrick elevator.    | Sand elevator.        |
| Fluid elevator.      | Sucker-rod elevator.  |
| Grain elevator.      | Tray elevator.        |
| Ice elevator.        | Waste elevator.       |
| Liquid elevator.     | Water elevator.       |
| Lock-rod elevator.   | Well-casing elevator. |
| Marine elevator.     | Well elevator.        |
- Elevator. T. L. Coleman. 1,736,187; Nov. 19.
- Elevator. C. C. Crispen. 1,714,297; May 21.
- Elevator. D. Dalin and A. L. Senn. 1,736,877; Nov. 26.
- Elevator. F. G. Diago. 1,736,584; Nov. 19.
- Elevator. D. L. Driscoll. 1,738,820; Dec. 10.
- Elevator. A. V. Esler. 1,728,675; Sept. 17.
- Elevator. C. M. Gidley. 1,737,389; Nov. 26.
- Elevator. J. N. Hicks and C. Severns. 1,741,055; Dec. 24.
- Elevator. G. Krell. 1,702,349; Feb. 19.
- Elevator. L. Kretzschmar. 1,727,436; Sept. 10.
- Elevator. J. D. Lewis. 1,709,134; Apr. 16.
- Elevator. W. H. Maxwell. 1,730,670; Oct. 8.
- Elevator. G. Rossien. 1,740,905; Dec. 24.
- Elevator. G. C. Thrift. 1,705,145; Mar. 12.
- Elevator apparatus. M. E. Neenan. 1,721,603; July 23.
- Elevator-cable equalizer. D. L. Lindquist. 1,725,402; Aug. 20.
- Elevator-car inclosure. C. C. Campbell. 1,700,920; Feb. 5.
- Elevator-car inclosure. C. T. Westlin. 1,718,014; June 18.
- Elevator cleaner, Grain-. N. O. Waddell. 1,710,279; Apr. 23.
- Elevator construction. T. K. Hine. 1,724,586; Aug. 13.
- Elevator control. E. B. Thurston. 1,714,285; May 27.
- Elevator control. M. A. Whiting and E. D. Harrington. 1,717,862; June 18.
- Elevator-control apparatus. H. W. Shonnard. 1,716,568; June 11.
- Elevator-control device. C. F. E. Olofson. 1,699,625; Jan. 22.
- Elevator-control system. E. M. Bouton. 1,720,538; July 9.
- Elevator-control system. E. M. Bouton. 1,736,480; Nov. 19.
- Elevator-control system. E. B. Thurston. 1,709,962; Apr. 23.
- Elevator-control system. R. A. Waite and F. L. Morris. 1,709,102; Apr. 16.
- Elevator-door lock. J. A. Schweig. 1,709,596; Apr. 16.
- Elevator door, Pass-type. H. Feldman. 1,727,399; Sept. 10.
- Elevator-entrance inclosure. L. G. Jacobson. 1,741,940; Dec. 31.



- Elevator-entrance toe guard. L. G. Jacobson. 1,741,941; Dec. 31.
- Elevator equipment, System of control for electric-. C. H. Roth and M. Schiff. 1,701,730; Feb. 12.
- Elevator for liquids. I. Schafran. 1,714,821; May 28.
- Elevator guide means. L. H. Kiesling. 1,702,783; Feb. 19.
- Elevator hook. B. P. Hoffman. 1,707,721; Apr. 2.
- Elevator indicator. W. F. Beatty. 1,700,112; Jan. 22.
- Elevator interlock. J. A. Brubaker. 1,709,970; Apr. 23.
- Elevator machine, Electric. D. L. Lindquist, and G. W. Lautrup. 1,702,514; Feb. 19.
- Elevator operating and control apparatus. C. Norton. 1,728,624; Sept. 17.
- Elevator or spider. G. Krell and G. M. Martinet. 1,721,024; July 16.
- Elevator or transfer device. H. I. Lahr and L. D. Helwig. 1,733,667; Oct. 29.
- Elevator saddle. J. Bullock and L. U. Lacour. 1,715,188; May 28.
- Elevator safety appliance. F. Hymans. 1,727,432; Sept. 10.
- Elevator, Signaling system for. R. H. Gaylord. Re17,411; Aug. 20.
- Elevator suspension. R. P. Higbee. 1,730,974; Oct. 8.
- Elevator system. D. L. Lindquist, E. L. Dunn, and D. C. Larson. 1,717,046; June 11.
- Elevator system, Automatic-stop. W. F. Eames. 1,715,744; June 4.
- Elevator system, Electric. R. A. Waite and G. W. Lautrup. 1,725,772; Aug. 27.
- Elevators, Control system for. G. W. Lautrup and G. N. Crabbe. 1,704,331; Mar. 5.
- Elevators, conveyers, and the like, Back stop for. P. C. Day and F. W. Jury. 1,730,318; Oct. 1.
- Elevators, Roller guide shoe for. A. C. Bridge. 1,713,165; May 14.
- Elevators, Safety appliance for. S. L. McKinney. 1,732,193; Oct. 15.
- Elevators, Safety device for. M. Scheinfeld. 1,730,747; Oct. 8.
- Elevators, Swinging-door-control device for. J. Rice. 1,733,906; Oct. 29.
- Elevators, Travel-control device for. E. B. Thurston. 1,738,215; Dec. 3.
- Elevators, Well protection device for. H. F. Richardson. 1,738,729; Dec. 10.
- Eliminating disturbances in receiving sound waves, Arrangement for. W. Hahnemann. 1,715,831; June 4.
- Eliminating disturbing oscillations, Arrangement for. A. Esau. 1,708,536; Apr. 9.
- Eliminating the printing of impressions on impression cylinder packings, Device for. H. M. Barber. 1,740,058; Dec. 17.
- Elimination of chattering or hum in alternating-current electromagnets. C. L. Perry. 1,717,247; June 11.
- Elimination of impurities in insulating oils. C. J. Rodman. 1,739,092; Dec. 10.
- Ellipsograph. A. Stössel. 1,724,738; Aug. 13.
- Emasculator. E. L. Fitch. 1,729,264; Sept. 24.
- Embalmer's trocar. E. R. Hevern. 1,740,174; Dec. 17.
- Emblem, Automobile radiator. C. F. Helman. Des. 77,956; Mar. 12.
- Emblem or article of similar nature. J. Di Libero. Des. 78,879; July 2.
- Emblem or the like. C. K. MacFadden. Des. 77,648; Feb. 5.
- Embossing dyes, Making. E. G. Knapp. 1,715,763; June 4.
- Embossing machine. C. Chisholm. 1,728,390; Sept. 17.
- Embossing machine. S. H. Kaufmann. 1,708,795; Apr. 9.
- Embossing machine. M. A. G. Luedtke and H. Löffmann. 1,714,795; May 28.
- Embossing machine. F. C. Reeder. 1,706,744; Mar. 26.
- Embossing machine. J. J. Swan. 1,730,984; Oct. 8.
- Embossing machine, Thimble-. E. F. Johnson. 1,723,785; Aug. 6.
- Embossing machines, Control mechanism for. A. L. Schultz. 1,728,869; Sept. 17.
- Embossing plaiting and the like. H. Frischer. 1,699,288; Jan. 15.
- Embossing press. A. Lewis. 1,725,461; Aug. 20.
- Embroidering device. M. S. Bassisty. 1,726,332; Aug. 27.
- Embroidering machine, Automatic. F. J. Gahlert and M. Bretschneider. 1,707,263; Apr. 2.
- Embroidering machine, Automatic. W. Myers. 1,728,910; Sept. 17.
- Embroidery frame. W. F. Bright. 1,700,666; Jan. 29.
- Embroidery hoop. T. M. Atkinson. 1,740,142; Dec. 17.
- Embroidery stitch. M. M. Langa. 1,718,156; June 18.
- Emergency belt. M. Freemark. 1,716,689; June 11.
- Emergency brake. S. Terao. 1,734,059; Nov. 5.
- Emergency heater. W. A. Brown. 1,726,337-8; Aug. 27.
- Emergency light. W. S. Cariens. 1,701,139; Feb. 5.
- Emery-wheel dresser, Adjustable. H. B. Durner. 1,711,343; Apr. 30.
- Empty and load brake. B. F. Kurtz. 1,740,545; Dec. 24.
- Emulsified solids, Depositing. H. Chislet. 1,724,826; Aug. 13.
- Emulsion and making the same. L. Kirschbraun. 1,707,809; Apr. 2.
- Emulsion, Bituminous. L. Kirschbraun. 1,733,493; Oct. 29.
- Emulsion, Making bituminous. L. Kirschbraun. 1,733,494; Oct. 29.
- Emulsion product. L. Kirschbraun. 1,725,648; Aug. 20.
- Emulsions and the like, Method and apparatus for forming. A. L. Loomis and R. W. Wood. 1,734,975; Nov. 12.
- Emulsions, Apparatus for making. L. Kirschbraun. 1,722,433; July 30.
- Emulsions, Making bituminous. L. C. Jones, C. C. Loomis, and H. W. Banks, 3d. 1,699,537; Jan. 22.
- Emulsions of liquid or dissolved substances, Preparing. B. Redlich. 1,729,185; Sept. 24.
- Emulsions, Preparing bituminous. H. Plauson. 1,706,590; Mar. 26.
- Emulsive preparations, Manufacturing. A. N. Macnicol. 1,711,503; May 7.
- Enamel and producing same, Lepidolite. C. Trenzen. 1,734,698; Nov. 5.
- Enamel coating, Method of and apparatus for applying and baking an insulating. N. D. Jessup. 1,722,797; July 30.
- Enamel drier. J. E. Birch. 1,737,293; Nov. 26.
- Enamel, Removing. H. O. Lang. 1,714,879; May 28.
- Enameling, Apparatus for. J. M. Sullivan. 1,710,953; Apr. 30.
- Enameling composition. R. Weimer. 1,706,866; Mar. 26.
- End cap for tubular packages. B. Cushing. 1,739,291; Dec. 10.
- End gate. A. Langren. 1,716,343; June 4.
- End gate. W. E. Williams. 1,707,889; Apr. 2.
- End gate for wagon and truck bodies. C. A. Wetzel. 1,724,384; Aug. 13.
- End gate or extension for mine cars. J. Ruffing, sr. 1,737,060; Nov. 26.
- End gate, Wagon. W. G. Slama. 1,727,619; Sept. 10.
- End hook. W. J. Roy. 1,701,339; Feb. 5.
- Endless bands, Method and apparatus for making. J. R. Gammeter. 1,708,129; Apr. 9.
- Endless-bed sander. F. A. Solem. 1,699,764; Jan. 22.
- Endoscope. F. F. Leiter. 1,741,575; Dec. 31.
- Endoscope, Blunted. R. H. Wappler. 1,703,216; Feb. 26.
- Energy-absorbing device. M. Harris. 1,708,136; Apr. 9.
- Energy from conductors, Diverting. A. O. Austin. 1,723,000; Aug. 6.
- Energy from high-potential conductors, Diverting. A. O. Austin. 1,709,826; Apr. 23.
- Engagement ring, Man's. J. L. Sandler. Des. 79,258; Aug. 20.
- Engine: See—
- Air-cooled engine.
  - Beating engine.
  - Beetling engine.
  - Braking engine.
  - Carding engine.
  - Combustion engine.
  - Compressed-air engine.
  - Compression engine.
  - Crankless engine.
  - Cylinder engine.
  - Dental engine.
  - Diesel engine.
  - Dual-flow engine.
  - Fire engine.
  - Fluid-actuated engine.
  - Fluid-pressure engine.
  - Gas engine.
  - Internal-combustion engine.
  - Lever brake engine.
  - Locomotive engine.
  - Marine engine.
  - Paper-pulping engine.
  - Radial aero engine.
  - Rotary combustion engine.
  - Rotary engine.
  - Sleeve-valve engine.
  - Steam engine.
  - Steam or other fluid engine.
  - Superfied engine.
  - Toy electric engine.
  - Toy engine.
  - Toy steam engine.
  - Two-cycle engine.
  - Valve engine.
  - Water-power engine.
- Engine. R. W. Bailey. 1,704,716; Mar. 12.
- Engine. J. T. Bishop. 1,705,894; Mar. 19.
- Engine. C. S. Brown. 1,720,779; July 16.
- Engine. E. R. Burnett. 1,720,262; July 9.
- Engine. C. G. Canfield. 1,701,439; Feb. 5.
- Engine. R. A. Forbes. 1,713,491; May 14.
- Engine. C. L. Kinder. 1,726,073; Aug. 27.
- Engine. J. A. Kuske. 1,707,086; Mar. 26.
- Engine. V. Link. 1,699,332; Jan. 15.
- Engine. L. Mattson. 1,703,044; Feb. 19.
- Engine. T. S. Miller. 1,738,384; Dec. 3.
- Engine. A. E. Peters. 1,718,070; June 18.
- Engine. S. G. Roberts. 1,700,077; Jan. 22.
- Engine. A. Sala and G. Rinaldi. 1,719,562; July 2.
- Engine. R. L. Southern. 1,716,711; June 11.
- Engine. F. F. Starr. 1,732,387; Oct. 22.
- Engine. R. G. Struble. 1,721,358; July 16.
- Engine. H. W. Stuver. 1,718,088; June 18.
- Engine. W. E. Zuccarello and J. C. Johnson. 1,704,236; Mar. 5.
- Engine and cylinder and piston construction, Internal-combustion. A. D. Snyder. 1,728,514; Sept. 17.
- Engine and generator, Internal-combustion. H. F. Schmidt. 1,701,340; Feb. 5.
- Engine and operating same, Constant-pressure combustion-. B. Bolli. 1,714,210; May 21.
- Engine and operating the same, Internal-combustion. L. V. Hosford and D. Davison. 1,725,274; Aug. 20.
- Engine and supplying it with air, Internal-combustion. C. A. Muller. 1,716,278; June 4.
- Engine and the transmission of power therefrom. E. A. Sperry. 1,697,292; Jan. 1.
- Engine and working the same, Internal-combustion. H. Junkers. 1,704,325; Mar. 5.
- Engine balancer. H. J. Edwards and A. B. Gilbert. 1,738,876-7; Dec. 10.
- Engine bracket, Outboard-. L. T. Savage. 1,704,303; Mar. 5.
- Engine bonnet, Automobile. T. L. Hibbard. Des. 79,428-9; Sept. 17.
- Engine built in a siphon piping, Hydraulic. K. Zoll, 3d. 1,704,417; Mar. 5.



- Engine compressor. H. N. Schramm. 1,738,121; Dec. 3.  
 Engine, compressor, and exhauster, Rotary. C. G. Barrett. 1,728,029; Sept. 10.  
 Engine construction. A. C. Miller. 1,727,298; Sept. 3.  
 Engine control, Automatic door-. G. E. Oakley. 1,698,167; Jan. 8.  
 Engine control, Door-. L. P. Hynes. 1,741,988; Dec. 31.  
 Engine-control mechanism, Gas-. H. D. Murray. 1,700,825; Feb. 5.  
 Engine-cooling system. J. Good. 1,724,472; Aug. 13.  
 Engine-cooling system. A. F. Wintercorn. 1,725,121; Aug. 20.  
 Engine device, Replacement. O. Horlacher. 1,697,565; Jan. 1.  
 Engine fan and water-circulation pump, Combined internal-combustion. T. B. Funk. 1,728,486; Sept. 17.  
 Engine for aircraft, Internal-combustion-. W. O. Warner. 1,716,095; June 4.  
 Engine for compressible or expansive mediums, Rotary. C. O. J. Montelius. 1,708,891; Apr. 9.  
 Engine-frame construction. J. A. McGrew. 1,702,478; Feb. 19.  
 Engine-head support and valve-spring compressor, Combined. G. C. Glaspy. 1,734,122; Nov. 5.  
 Engine installation, Internal-combustion-. A. S. Hawks. 1,711,530; May 7.  
 Engine method and apparatus, Combustion. F. D. Butler. 1,734,286; Nov. 5.  
 Engine mount. W. Noble. 1,705,492; Mar. 19.  
 Engine mount, Aircraft. H. Caminez. 1,723,012; Aug. 6.  
 Engine mounting, Compensating-. T. P. Chase. 1,712,950; May 14.  
 Engine mounting for automotive vehicles. R. Sardeson and F. J. La Mere. 1,698,453; Jan. 8.  
 Engine muffler. W. T. Scarritt. 1,741,078; Dec. 24.  
 Engine oil distillator, Internal-combustion-. R. L. Skinner. 1,741,483; Dec. 31.  
 Engine operated by the expansion of liquids, Heat. J. F. J. Malone. 1,717,161; June 11.  
 Engine operation, Device for controlling steam-. V. Z. Caracristi. 1,704,381; Mar. 5.  
 Engine, pump, and the like, Internal-combustion and other. C. B. Redrup. 1,732,659; Oct. 22.  
 Engine, pump, blower, or meter, Rotary. A. T. Macleay. 1,738,191; Dec. 3.  
 Engine, pump, meter, and the like, Rotary. E. Feuerheerd. 1,700,038; Jan. 22.  
 Engine-reversing mechanism, Locomotive auxiliary. W. H. Holtom. 1,723,651; Aug. 6.  
 Engine shaft. I. Yassenoff. 1,726,875; Sept. 3.  
 Engine stand. A. Whightsil. 1,721,424; July 16.  
 Engine starter. A. A. Densmore. 1,700,216; Jan. 29.  
 Engine starter. R. P. Lansing. 1,719,299; July 2.  
 Engine starter. C. Marcus. 1,730,226; Oct. 1.  
 Engine-starting apparatus. J. Bijur. 1,700,214; Jan. 29.  
 Engine-starting apparatus. E. Dickey. 1,719,102; July 2.  
 Engine-starting apparatus. C. H. Kindl. 1,724,136; Aug. 13.  
 Engine-starting apparatus. F. C. Kroeger. 1,708,226; Apr. 9.  
 Engine-starting apparatus. W. W. Riedel. 1,716,464; June 11.  
 Engine-starting apparatus. E. V. Rippingille. 1,736,132; Nov. 19.  
 Engine-starting mechanism. R. P. Lansing. 1,714,913; May 28.  
 Engine with self-ignition, High-speed internal-combustion. F. Gockerell. 1,741,766; Dec. 31.  
 Engine with slot scavenging, Double-acting two-stroke gas. H. Bullheimer. 1,727,697; Sept. 10.  
 Engines, Adjusting oscillation period of exhausts of internal-combustion. H. H. Maxim. 1,718,047; May 14.  
 Engines, Antidetonating piston head for internal-combustion. A. Moore. 1,708,426; Apr. 9.  
 Engines, Antidetonation combustion chamber for internal-combustion. A. Moore. 1,708,425; Apr. 9.  
 Engines, Antidetonation combustion chamber for internal-combustion. A. Moore. 1,708,427; Apr. 9.  
 Engines, Appliance for internal-combustion. F. Münz. 1,736,662; Nov. 19.  
 Engines, Automatic choke-valve control for gas. A. M. Harbison. 1,725,513; Aug. 20.  
 Engines, Automatic spark-retarding attachment for internal-combustion. E. A. Niblack. 1,711,123; Apr. 30.  
 Engines, Auxiliary air device for explosion. C. Zanini. 1,726,602; Sept. 3.  
 Engines, Bed plate for beating. A. J. Allison. 1,727,329; Sept. 10.  
 Engines, Charge control for internal-combustion. D. P. Molony. 1,720,086; July 9.  
 Engines, Charge former for internal-combustion. J. M. Losack. 1,724,097; Aug. 13.  
 Engines, Charge-forming device for internal-combustion. F. B. Aseltine. 1,727,265-6; Sept. 3.  
 Engines, Charge-forming device for internal-combustion. J. F. Hermann. 1,722,145; July 23.  
 Engines, Construction and method of operating crankless internal-combustion and explosion. A. G. M. Michell. 1,698,102; Jan. 8.  
 Engines, Control of internal-combustion. W. F. Rabbidge. 1,701,274; Feb. 5.  
 Engines, Control of the supply of fuel to Diesel-cycle or mixed-cycle internal-combustion. G. W. Grayson. 1,713,178; May 14.  
 Engines, Controlling the valve motion in piston. M. Fischer. 1,717,965; June 18.  
 Engines, Cooling device for internal-combustion. F. J. Crew. 1,731,708; Oct. 15.  
 Engines, Cranking mechanism for internal-combustion. B. Stockfleth and F. W. Burger. 1,726,997; Sept. 3.  
 Engines, Device for reducing piston slap in internal-combustion. D. M. Solenberger. 1,710,276; Apr. 23.  
 Engines, Driving mechanism for internal-combustion. J. Szydlowski. 1,736,639; Nov. 19.  
 Engines, etc., Injection apparatus for combustion. A. Tacchella. 1,721,888; July 23.  
 Engines, Explosion chamber of the cylinders of internal-combustion. A. G. Elliott. 1,728,749; Sept. 17.  
 Engines, Feed apparatus for internal-combustion. F. Weinberg. 1,732,251; Oct. 22.  
 Engines, Fuel-control device for internal-combustion. J. F. Dixon. 1,721,989; July 23.  
 Engines, Fuel-feeding device for internal-combustion. G. A. Gillen. 1,722,791; July 30.  
 Engines, Fuel-supply apparatus for internal-combustion. J. M. Bartley. 1,728,323; Sept. 17.  
 Engines, Fuel-supply means for. O. C. Kreis. 1,739,317; Dec. 10.  
 Engines, High-turbulence power chamber for internal-combustion. A. Moore. 1,701,538; Feb. 12.  
 Engines, Interior agitator for internal-combustion. A. Moore. 1,701,537; Feb. 12.  
 Engines, Knock detector for internal-combustion. R. J. Lawrence. 1,725,872; Aug. 27.  
 Engines, Method and apparatus for obtaining work in internal-combustion. J. G. Prosser. 1,711,249; Apr. 30.  
 Engines, Method and apparatus for operating internal-combustion. J. Good. 1,722,288; July 30.  
 Engines, Mixture commingling means for internal-combustion. A. P. Brush. 1,731,042; Oct. 8.  
 Engines, Noise eliminator for internal-combustion. H. J. Lynd. 1,737,466; Nov. 26.  
 Engines, Packing device for use in fluid-pressure. K. O. Keller. 1,728,765; Sept. 17.  
 Engines, Regulating the working of internal-combustion. T. D. Kelly. 1,705,408; Mar. 12.  
 Engines, Starting air distributor for Diesel. T. E. Sellden. 1,735,414; Nov. 12.  
 Engines, Starting and reversing arrangement for internal-combustion. G. H. Huss. 1,723,699; Aug. 6.  
 Engines, Starting and stopping apparatus for internal-combustion. R. Miller. 1,713,545; May 21.  
 Engines, Supplying air to internal-combustion. A. Benjamin. 1,706,391; Mar. 26.  
 Engines, Turbulence-producing combustion chamber for internal-combustion. A. Moore. 1,708,428; Apr. 9.  
 Engines, Venturi combustion chamber for internal-combustion. E. R. Hewitt. 1,741,417; Dec. 31.  
 Engines, Water-circulation preheating system for internal-combustion. W. B. Whelan. 1,716,715; June 11.  
 Engines, Water-vapor attachment for gas. R. G. Thomas. 1,724,785; Aug. 13.  
 Engines with liquid or pulverized fuels, Device for working combustion. R. Pawlikowski. 1,719,023; July 2.  
 Engines with plural projections, Antidetonation combustion chamber for internal-combustion. A. Moore. 1,717,578; June 18.  
 Engines with removable cylinder heads, Interior agitator for internal-combustion. A. Moore. 1,703,202; Feb. 26.  
 Engines with rotating brushes and stationary copper segments, Collector for electric. M. Urbinati. 1,709,381; Apr. 16.  
 Engraving machine. L. K. Braren. 1,705,957; Mar. 19.  
 Ensilage cutter. C. W. Keith. Re17,315; June 4.  
 Ensilage cutter. E. W., R. A., O., and F. Saiberlich. 1,713,094; May 14.  
 Ensilage machine. F. B. Burkhardt. 1,699,520; Jan. 29.  
 Entrainment mechanism. J. A. McGrew. 1,710,427; Apr. 23.  
 Envelope. F. Culotta. 1,720,721; July 16.  
 Envelope. B. A. Dahlke. 1,714,349; May 21.  
 Envelope. A. W. Engel. 1,731,527; Oct. 15.  
 Envelope. C. J. Erickson. 1,702,401; Feb. 19.  
 Envelope. S. Ellis and M. Kasprzak. 1,741,456; Dec. 31.  
 Envelope. B. R. Harris. 1,735,273; Nov. 12.  
 Envelope. S. C. Jones. 1,741,059; Dec. 24.  
 Envelope and invoice sheet, Combined. H. W. Myers. 1,711,575; May 7.  
 Envelope and making the same. I. Gurwick. 1,702,115; Feb. 12.  
 Envelope and portfolio. O. J. Olm. 1,734,642; Nov. 5.  
 Envelope and stationery combined, Double-service. W. H. Lawhorn. 1,717,698; June 18.  
 Envelope, Combined mailing and filing. A. S. Greenhaus. 1,722,911; July 30.  
 Envelope, Display. M. L. Emrich. 1,712,337; May 7.  
 Envelope, Duplex. W. J. Binder. 1,726,188; Aug. 27.  
 Envelope-filing machine. M. Stevens, J. C. Weeks, and C. E. Davidson. 1,720,699; July 16.  
 Envelope-folding device. M. Dunacber. 1,700,737; Feb. 5.  
 Envelope for wax paper. W. I. Cubberley. 1,737,645; Dec. 3.  
 Envelope, Garment. L. E. La Bombard and M. H. Sidebotham. 1,698,549; Jan. 8.  
 Envelope, Greeting-card mailing and display. J. E. Goodbar. 1,738,182; Dec. 3.  
 Envelope machine. J. M. Gauntlett. 1,702,733; Feb. 19.  
 Envelope machine. H. S. Labombarde. 1,736,407; Nov. 19.



- Envelope machine. J. M. Townsend. 1,720,651; July 9.
- Envelope machines, Gunning attachment for. E. G. Vallier. 1,741,211; Dec. 31.
- Envelope-making machine. C. E. Dammart. 1,726,655; Sept. 3.
- Envelope opener. J. W. Bowers. 1,713,019; May 14.
- Envelope opener. R. Glasser. 1,731,413; Oct. 15.
- Envelope opening and sealing machine. A. A. Thacker. 1,727,679; Sept. 10.
- Envelope-opening machine. A. J. Keiser. 1,703,738; Feb. 26.
- Envelope or similar container. H. M. Sinclair. Des. 78,543; May 14.
- Envelope or wrapper, Moistureproof. W. E. Molins. 1,737,055; Nov. 26.
- Envelope, Safety. F. Bogaskie. 1,722,451; July 30.
- Envelope, Safety. J. H. Elfverson. 1,703,137; Feb. 26.
- Envelope, Safety. A. Szarka and A. Palfy. 1,715,177; May 28.
- Envelope, Two-compartment. C. E. Cather. 1,738,562; Dec. 10.
- Envelope, Window. M. Gentile. 1,709,126; Apr. 16.
- Envelopes, Apparatus relating to the manufacture of. W. W. Warrington. 1,730,751; Oct. 8.
- Epsom salts, Preparing. S. B. Heath. 1,709,398; Apr. 16.
- Equalizer for shock absorbers. W. and S. Vernet. 1,717,175; June 11.
- Equalizer for stave jointers. W. V. Grace. 1,716,520; June 11.
- Equalizer, Locomotive-truck. J. G. Blunt. 1,699,604; Jan. 22.
- Equalizing and braking device. N. L. Dauplaise. 1,729,283; Sept. 24.
- Equalizing device for brakes. L. Taddeo. 1,715,796-7; June 4.
- Equalizing device for extension tables. E. H. Cook. 1,718,635; June 25.
- Equalizing mechanism. N. D. Levin. 1,726,034; Aug. 27.
- Equipment stand, Dental. O. H. and A. F. Pieper. 1,724,775; Aug. 13.
- Eraser cleaner. R. W. Gott. 1,729,253; Sept. 24.
- Eraser-cleaning device. A. E. Otterstrom and F. Landin. 1,718,180; June 18.
- Eraser, Mechanical-pencil. A. A. Page. 1,710,067; Apr. 23.
- Eraser, Rotary. E. Shenkan. 1,710,080; Apr. 23.
- Erasers, Holder for. W. H. Frost. 1,711,197; Apr. 30.
- Erasing apparatus. E. J. Simonsen. 1,705,788; Mar. 19.
- Erasing device. C. Greene. 1,715,912; June 4.
- Escapement mechanism. C. Kupfer. 1,702,831; Feb. 19.
- Escapement regulation of pendulum clocks, Device for. A. Lauffer. 1,718,653; June 25.
- Escutcheon. W. C. Devereaux. Des. 77,748; Feb. 19.
- Escutcheon. W. C. Devereaux. Des. 77,751; Feb. 19.
- Escutcheon. S. J. Morgan. 1,697,282; Jan. 1.
- Escutcheon members, Attaching. L. Ottinger. 1,726,582; Sept. 3.
- Escutcheon plate. H. A. Palmer. 1,741,653; Dec. 31.
- Escutcheon plate. W. R. Schlage. Des. 79,260-2; Aug. 20.
- Escutcheon plate and door-latch front, Combined. W. N. Thomas. Des. 79,216; Aug. 13.
- Escutcheon plate for a dial mechanism. J. Millen. Des. 79,378; Sept. 10.
- Escutcheon plate for a radiodial. J. Geloso. Des. 77,950; Mar. 12.
- Escutcheon plate or the like. W. N. Thomas. Des. 79,215; Aug. 13.
- Ester gum, Making. B. F. Williamson and W. H. Beisler. 1,734,987; Nov. 12.
- Esters and other valuable organic compounds, Manufacturing. F. C. Zeisberg. 1,708,460; Apr. 9.
- Esters, Aryl alkyl. R. H. Van Schaack, jr. 1,700,960; Feb. 5.
- Esters containing halogen-substituted fatty-acid groups, Making cellulose. H. T. Clarke and C. J. Malm. 1,698,049; Jan. 8.
- Esters containing higher acyl groups, Making cellulose aceto. H. T. Clarke and C. J. Malm. 1,698,048; Jan. 8.
- Esters, Continuous process for the manufacture of vinyl. G. O. Morrison. 1,710,181; Apr. 23.
- Esters, Hexyl. R. H. Van Schaack, jr. 1,702,180; Feb. 12.
- Esters, Making. H. E. Buc and W. W. Clough. 1,726,945; Sept. 3.
- Esters, Manufacture of. R. Wietzel. 1,732,392; Oct. 22.
- Esters, Manufacture of vinyl. F. W. Skirrow. 1,710,197; Apr. 23.
- Esters of abietic acid, Producing glycol. A. Langmeier. 1,697,530; Jan. 1.
- Esters of amino propanes. W. Schoeller and H. Schotte. 1,711,696; May 7.
- Esters of carboxylic acids, Formation of. H. W. Matheson and F. W. Skirrow. 1,720,184; July 9.
- Esters of cellulose, Making mixed organic. H. T. Clarke and C. J. Malm. 1,735,159; Nov. 12.
- Esters of cellulose, Making organic. H. T. Clarke and C. J. Malm. 1,716,422; June 11.
- Esters of polybasic organic acids, Alkoxy. R. H. Van Schaack, jr., and R. Calvert. 1,706,639; Mar. 26.
- Esters of saccharides of higher unsaturated fatty acids, Production of. L. Rosenthal and W. Lenhard. 1,739,863; Dec. 17.
- Esters of the  $\alpha, \alpha'$ -dimethyl- $\gamma$ -hydroxypiperidine- $\beta$ -carboxylic acid esters and preparing the same, Aromatic acid. F. Stolz and W. Krohs. 1,703,121; Feb. 26.
- Esters, Production of polyalkylene glycol. O. Loehr. 1,710,424; Apr. 23.
- Etched article and producing same. M. W. Noerenberg. 1,719,719; July 2.
- Etching machine. A. Holmstrom. 1,716,270; June 4.
- Etching machine. F. T. Powers. 1,736,862; Nov. 26.
- Etching plates, Making steel. J. C. Janes. 1,705,155; Mar. 12.
- Ether-alcohol ester of fatty acids. J. M. Kessler and O. B. Helfrich. 1,739,315; Dec. 10.
- Ether-alcohol esters of polycarboxylic acids. J. M. Kessler and O. B. Helfrich. 1,714,173; May 21.
- Ether, Method of and apparatus for preserving. E. Mallinckrodt, jr., and H. V. Farr. 1,697,320; Jan. 1.
- Ether of propylene glycol and making same. J. G. Davidson. 1,730,061; Oct. 1.
- Ether of resorcinol, Basic. H. Hahl. 1,711,020; Apr. 30.
- Ethers, Making ethylene glycol monoalkyl. J. G. Davidson. 1,732,356; Oct. 22.
- Ethers, Manufacture of. C. B. Carter. 1,733,721; Oct. 29.
- Ethers, Manufacture of diacetone. A. Hoffman. 1,729,255; Sept. 24.
- Ethers of cyclic compounds, New basic oxime. W. Kropp. 1,733,462; Oct. 29.
- Ethyl-chloride tube. J. W. Batchelor. 1,698,528; Jan. 8.
- Ethyl-chloride tube. H. A. Müller. 1,697,731; Jan. 1.
- Ethylene, glycol, Derivative of. R. H. Van Schaack, jr., and R. Calvert. 1,733,639; Oct. 29.
- Ethylene glycol, Making. E. C. Britton. 1,709,605; Apr. 16.
- Ethylene glycol, Manufacture of. K. H. Sunders and H. Wignall. 1,737,545; Nov. 26.
- Ethylene, Purification of. H. H. Dawson. 1,741,559; Dec. 31.
- Evacuation of waste scraps from kitchens or the like, Device for the. L. A. Garchey. 1,704,469; Mar. 5.
- Evaporating refrigerant liquids. S. C. Carney. 1,739,750; Dec. 17.
- Evaporation. P. B. Sadtler. 1,735,980; Nov. 19.
- Evaporation and hold-over tank. I. H. Reindel. 1,704,102; Mar. 5.
- Evaporation, distillation, or the like apparatus. W. Vogelbusch. 1,733,476; Oct. 29.
- Evaporation losses, Prevention of. H. V. Atwell. 1,700,362; Jan. 29.
- Evaporation of liquids, Apparatus for the. E. Morterud. 1,731,146; Oct. 8.
- Evaporation, Prevention of loss by. H. V. Atwell. 1,715,112; May 28.
- Evaporator. B. S. and S. Hughes. 1,717,927; June 18.
- Evaporator. S. Rosenthal. 1,706,939; Mar. 26.
- Evaporator. P. B. Sadtler. 1,735,979; Nov. 19.
- Evaporator. T. Shipley. 1,718,312-13; June 25.
- Evaporator. F. W. Sievert. 1,704,064; Mar. 5.
- Evaporator and brine cooler. T. Shipley. 1,718,311; June 25.
- Evaporator and preheater system. S. Brown. 1,703,093; Feb. 26.
- Evaporator element. A. J. Kusel and G. W. Gail. 1,706,891; Mar. 26.
- Evaporator, Fruit. M. P. Smith. Re17,370; July 9.
- Evaporator tank and method. J. O. Carrey. 1,733,400; Oct. 29.
- Evaporator unit. R. M. Hyde. 1,731,575; Oct. 15.
- Evening and distributing machine. L. A. Cogswell. 1,703,136; Feb. 26.
- Excavating and steering mechanism, Road-machine. J. M. Larsh. 1,718,965; July 2.
- Excavating apparatus. F. H. Hunt. 1,726,565; Sept. 3.
- Excavating apparatus. J. W. Page. 1,724,104; Aug. 13.
- Excavating device. O. O. App. 1,720,195; July 9.
- Excavating machine. R. B. Muffett. 1,736,661; Nov. 19.
- Excavating machine, Trench-. A. J. Penote. 1,703,320; Feb. 26.
- Excavating machines, Boom for. R. R. Downie. 1,739,952; Dec. 17.
- Excavating method and apparatus. O. O. App. 1,717,597; June 18.
- Excavating tools, Renewable working face for. C. Harrison. 1,707,552; Apr. 2.
- Excavating tooth, Reversible-point. A. F. Wikstrom. 1,713,268; June 25.
- Excavator. R. Dordward. 1,703,063; Feb. 19.
- Excavator. J. E. Mattinson and E. J. Moody. 1,735,122; Nov. 12.
- Excavator. C. H. Ruth. 1,733,427; Oct. 29.
- Excavator. A. F. Zickgraf. 1,723,115; Aug. 6.
- Excavator and loader. K. Besteland. 1,706,689; Mar. 26.
- Excavator and loader, Combined. R. Burchill. 1,721,587; July 23.
- Excavator buckets, Carriage for. G. T. Ronk. 1,701,013; Feb. 5.
- Excavator drive. C. H. Ruth. 1,715,627; June 4.
- Excavator or the like. S. R. W. M. Bager. 1,724,166; Aug. 13.
- Excavator or the like. W. Lehman. 1,724,207; Aug. 13.
- Excavator teeth, Interlocked. C. Rorabeck. 1,696,924; Jan. 1.
- Exercise apparatus. E. H. Odell. 1,721,709; July 23.
- Exercise bar. R. B. McWhirter. 1,714,391; May 21.
- Exerciser. R. H. Noe. 1,729,399; Sept. 24.
- Exerciser, reducer, and health builder. H. P. Christesen. 1,706,654; Mar. 26.
- Exercising and massaging apparatus. P. B. Daley. 1,713,499; May 14.



- Exercising and training device, Dog. W. G. Postings. 1,699,308; Jan. 15.
- Exercising apparatus. J. R. Anderson. 1,705,745; Mar. 19.
- Exercising apparatus. C. Washburn. 1,717,861; June 18.
- Exercising apparatus. H. Zinnow and W. Sievers. 1,733,709; Oct. 29.
- Exercising apparatus, Physical. H. C. Sweeney. 1,734,238; Nov. 5.
- Exercising device. G. Attanasio. 1,716,678; June 11.
- Exercising device. V. Dattilo. 1,738,987; Dec. 10.
- Exercising device. R. B. Hall. 1,735,538; Nov. 12.
- Exercising device. D. E. Mackey and F. L. Black. 1,721,346; July 16.
- Exercising device, Abdominal. S. W. Kelly. 1,697,957; Jan. 8.
- Exercising device, Finger. C. T. Marsh. 1,736,930; Nov. 26.
- Exercising device, Physical. J. I. Rodale. 1,707,449; Apr. 2.
- Exercising device, Universal. W. H. Titus. 1,698,831; Jan. 15.
- Exercising machine. W. Campbell. 1,720,117; July 9.
- Exercising machine, Portable mechanical. L. V. Shaw. 1,715,102; May 28.
- Exercising the fingers, Apparatus for. G. Retif. 1,720,571; July 9.
- Exercising the fingers, Apparatus for. G. Retif. 1,739,374; Dec. 10.
- Exercising the ocular muscles and for fusion framing, Apparatus for. J. R. Howard. 1,738,708; Dec. 10.
- Exhaust box. A. R. Thompson. 1,736,891; Nov. 26.
- Exhaust box or cooker. F. D. Chapman. 1,728,926; Sept. 24.
- Exhaust-controlling device. C. C. Farmer. 1,714,008; May 21.
- Exhaust eliminator. R. Sinkes. 1,725,834; Aug. 27.
- Exhaust head. C. Bol. 1,728,034; Sept. 10.
- Exhaust mechanism for hydraulic circuits, Air. L. F. Young. 1,700,394; Jan. 29.
- Exhaust muffler. F. F. Hamilton. 1,709,217; Apr. 16.
- Exhaust muffler. O. F. Warhus. 1,708,002; Apr. 9.
- Exhaust muffler. J. F. Webb, sr. 1,709,332; Apr. 16.
- Exhaust muffler for radial-cylinder engines of aircraft. W. Wait, jr. 1,707,830; Apr. 2.
- Exhaust silencer. W. H. G. Furnivall, D. B. McLaren, and E. J. Laschinger. 1,721,385; July 16.
- Exhaust silencer for internal-combustion engines. C. H. Brice. 1,740,805; Dec. 24.
- Exhaust silencer for internal-combustion engines. J. A. Morgan. 1,698,198; Jan. 8.
- Exhaust system for internal-combustion engines. D. H. Wells. 1,730,869; Oct. 8.
- Exhaust system, Indirect. H. A. Roselund. 1,701,637; Feb. 12.
- Exhaust-treating mechanism. J. F. Webb, sr. 1,709,333; Apr. 16.
- Exhaust ventilator. P. R. Jordan. 1,726,959; Sept. 3.
- Exhausting apparatus. C. A. Dunham. 1,724,262; Aug. 13.
- Exhibiting merchandise, Apparatus for. G. J. Segal. 1,699,164; Jan. 15.
- Exhibition apparatus. W. M. Clark. 1,722,659; July 30.
- Expander. W. H. Klocke. 1,708,673; Apr. 9.
- Expanding device for tire casings. T. Midgley. 1,723,572; Aug. 6.
- Expandible collapsible element. H. C. Mallory. Re1,730,1; May 21.
- Expandible-collapsible element. H. C. Mallory. 1,738,913; Dec. 10.
- Expandible collapsible elements, Producing. H. C. Mallory. 1,698,164; Jan. 8.
- Expandible-collapsible elements, Producing. H. C. Mallory. 1,705,622; Mar. 19.
- Expandible wheel. F. L. Townsend. 1,739,271; Dec. 10.
- Expansion device. W. M. Dann. 1,705,721-2; Mar. 19.
- Expansion device. L. H. Hill. 1,712,765; May 14.
- Expansion joint. A. C. Fischer. 1,706,110; Mar. 19.
- Expansion joint. A. C. Fischer. 1,711,934; May 7.
- Expansion joint. A. C. Fischer. 1,728,115; Sept. 10.
- Expansion joint. A. C. Fischer. 1,730,066-7; Oct. 1.
- Expansion joint. A. C. Fischer. 1,735,270; Nov. 12.
- Expansion joint. J. V. Giesler. 1,726,483; Aug. 27.
- Expansion joint. C. C. Hall. 1,711,842; May 7.
- Expansion joint. R. E. Martin. 1,737,318; Nov. 26.
- Expansion joint. T. E. McShaffrey. 1,702,788; Feb. 19.
- Expansion joint. G. W. Mills, jr. 1,720,229; July 9.
- Expansion joint, Flue. J. A. Freiday. 1,720,323; July 9.
- Expansion joint, Gas-main. H. E. Bulmahn. 1,731,761; Oct. 15.
- Expansion strip for concrete roadways. R. D. Gregg. 1,726,263; Aug. 27.
- Expansion tank. E. Dawson. 1,732,505; Oct. 22.
- Expansive bit. J. H. Abramson. 1,740,055; Dec. 17.
- Expansive bit. C. A. Swenson. 1,727,452; Sept. 10.
- Expelling and clarifying fruit juices, Apparatus for continuous. F. W. Manning. 1,703,535; Feb. 26.
- Expelling the sulphur dioxide from mixtures of sulphur dioxide and oil, Apparatus for continuously. P. Jodeck. 1,738,070; Dec. 3.
- Exploration apparatus, Colonial. O. B. Schellberg. 1,704,764; Mar. 12.
- Explosion arrester. I. L. Dunn, J. O. Lewis, and H. R. Pierce. 1,701,805; Feb. 12.
- Explosion joint. C. W. Calentine. 1,702,066; Feb. 12.
- Explosive. L. W. Babcock. 1,741,146; Dec. 31.
- Explosive. C. O. Black and W. A. Moore. 1,713,816; May 21.
- Explosive. G. A. Rupp. 1,728,307; Sept. 17.
- Explosive. A. C. Scott. 1,700,085; Jan. 22.
- Explosive, Ammonium-nitrate. J. A. Wyler. 1,720,459; July 9.
- Explosive, Blasting. L. N. Bent. 1,706,517; Mar. 26.
- Explosive composition, High-. F. Olsen. 1,705,874; Mar. 19.
- Explosive for signaling. W. O. Snelling. 1,709,636; Apr. 16.
- Explosive mixtures into internal-combustion engines. Method and apparatus for introducing. P. Brush. 1,730,641; Oct. 8.
- Explosive projectile. S. Lebensart. 1,709,798; Apr. 16.
- Explosives and resulting explosives, Preparing. H. C. Bugbird. 1,706,871; Mar. 26.
- Explosives from shells, Method of and apparatus for the recovery of. J. H. Roberts. 1,706,938; Mar. 26.
- Explosives nondeliquescent, Rendering. L. J. W. Jones. 1,706,668; Mar. 26.
- Exposure meter, Photographic. G. E. Osborne. 1,697,928; Jan. 8.
- Exposure process, Double. N. Osann. 1,698,448; Jan. 8.
- Expression-controlling means. J. G. Williams and E. J. Schneider. 1,729,198; Sept. 24.
- Expression device. J. H. Hammond, jr. 1,722,979; July 30.
- Extensible chair. A. J. May. 1,700,741; Feb. 5.
- Extensible rod. W. L. Mitchell. 1,705,625; Mar. 19.
- Extension bolt. J. D. Casey. 1,706,651; Mar. 26.
- Extension device. E. G. Carlson. 1,738,561; Dec. 10.
- Extension device. E. L. Johnson and O. Lundsten. 1,701,041; Feb. 5.
- Extension device. P. W. Jones. 1,739,464; Dec. 10.
- Extension device. P. W. Jones. 1,739,676; Dec. 17.
- Extension device. N. T. Nelson. 1,739,688; Dec. 17.
- Extension device. E. F. M. Speidel and K. C. Augenstein. 1,701,020; Feb. 5.
- Extension device. E. F. M. Speidel and K. C. Augenstein. 1,740,432; Dec. 17.
- Extension device, Foldable. A. F. Kraemer. 1,741,421; Dec. 31.
- Extension joint, Preformed. H. B. Pullar. 1,701,628-9; Feb. 12.
- Extension-leaf table. D. G. Anderson. 1,728,917; Sept. 24.
- Extension of the distance between an automobile and its trailer, Device for. L. Isachsen. 1,730,076; Oct. 1.
- Extension switch, Frequency-range. A. H. Grebe. 1,727,641; Sept. 10.
- Extension table, End. R. W. Irwin and N. Bekins. 1,736,533; Nov. 19.
- Extensions upon tubes, Apparatus and method for forming. A. T. Hunter. 1,738,056; Dec. 3.
- Extensometer mounting. R. W. Brown. 1,723,404; Aug. 6.
- Exterminating water hyacinth. J. B. Callahan. 1,713,739; May 21.
- Exterminator. W. Abby. 1,722,833; July 30.
- Exterminator. H. Longauer. 1,717,714; June 18.
- Exterminator, Grass-root. J. A. McFarland. 1,708,732; Apr. 9.
- Exterminator, Pest. E. Montgomery. 1,721,869; July 23.
- Exterminator, Roach. G. H. Ross. 1,700,517; Jan. 29.
- Extinguisher and receiver, Cigarette. K. B. Mattson. 1,740,826; Dec. 24.
- Extinguisher for cigarettes and cigars. R. H. Johnson. 1,725,196; Aug. 20.
- Extinguishing device, Automatic. E. A. Lowe. 1,718,698; June 25.
- Extinguishing fires in flow lines, Apparatus for. J. O. Lewis. 1,699,244; Jan. 15.
- Extinguishing fires, Method and apparatus for. F. C. J. Moore. 1,727,111; Sept. 3.
- Extinguishing the frame of blasting charges, Device for. M. Witte. 1,735,099; Nov. 12.
- Extract and making it, Optic-nerve and retina. E. H. Stuart. 1,700,691; Jan. 29.
- Extract and making same, Cereal. L. Wallerstein. 1,737,279; Nov. 26.
- Extracting acids from solutions. H. E. Martin. 1,717,719; June 18.
- Extracting candelilla wax. J. T. Garcia. 1,715,194; May 28.
- Extracting device for motor vehicles. J. D. West. 1,718,509; June 25.
- Extracting implement. E. J. McCormick. 1,725,814; Aug. 27.
- Extracting liquid hydrocarbons from oil shale, Apparatus for. A. Schilling. 1,721,836; July 23.
- Extracting machines, Rope guide for. A. A. Shanklin. 1,734,832; Nov. 5.
- Extracting mercury from cinnabar. W. C. Baxter. 1,718,103; June 18.
- Extracting mercury from cinnabar ore. F. M. Schad. 1,718,491; June 25.
- Extracting metals from their compounds. C. J. G. Aarts. 1,712,641; May 14.
- Extracting oils. J. W. Beckman. 1,698,294; Jan. 8.
- Extracting petroleum. J. L. Rich. 1,735,012; Nov. 12.
- Extracting sulphur, Method and apparatus for. A. J. Crowley. 1,731,563; Oct. 15.
- Extracting theobromine from natural products. G. C. A. Van Dorp. 1,718,093; June 18.



- Extraction. C. F. Eddy. 1,721,858; July 23.  
Extraction and purification of naphthenic acid. S. P. Coleman. 1,720,821; July 16.  
Extraction of copper-nickel matte. W. J. Harshaw and G. L. Homer. 1,729,423; Sept. 24.  
Extraction of liquids, Apparatus for the. T. Bellocq. 1,730,336; Oct. 1.  
Extraction of substances from fluids. A. H. Pehrson. 1,732,819; Oct. 22.  
Extractor: See—  
Automobile extractor. Honey extractor.  
Battery-cell extractor. Juice extractor.  
Cap extractor. Liquid and moisture extractor.  
Centrifugal extractor. Soot and grease extractor.  
Cotter-pin extractor. Stump extractor.  
Door extractor. Tooth extractor.  
Gas extractor. Weed extractor.  
Handle extractor.  
Extractor. G. S. Witham, jr. 1,722,693; July 30.  
Extractor and cotton cleaner, Burr. F. Lane. 1,724,943; Aug. 20.  
Extractor and method of centrifugal extraction, Centrifugal. T. A. Bryson. 1,710,447; Apr. 23.  
Extractor for pulping devices. W. Werner. 1,726,874; Sept. 3.  
Extractor-operating plant, Centrifugal. N. R. Andrews and J. J. Neuman. Re17,378; July 23.  
Extractors, Safety attachment for. J. Gariglio. 1,735,745; Nov. 12.  
Extruding die. F. T. Heath. 1,725,959; Aug. 27.  
Extruding machines, Strainer head for. V. Royle. 1,732,618; Oct. 22.  
Extruding matter, Method of and apparatus for. J. E. Boynton. 1,741,814; Dec. 31.  
Extrusion press. T. A. Daniel. 1,703,300; Feb. 26.  
Extrusion press. J. P. Madden. 1,715,936; June 4.  
Extrusion press. L. B. Taylor. 1,696,983; Jan. 1.  
Extrusion press for the manufacture of collapsible metal tubes. W. T. Davis. 1,712,259; May 7.  
Eye, Artificial. S. Marcus and A. Konoff. 1,738,192; Dec. 3.  
Eyecup. S. R. Sacks. 1,724,621; Aug. 13.  
Eye dropper. R. W. Breeding. 1,736,731; Nov. 19.  
Eye-examining instrument. B. P. Currier and B. W. King. 1,721,208; July 16.  
Eye-exercising apparatus. E. L. Martin. 1,702,700; Feb. 19.  
Eye-frazing machine. J. H. Wilhelm. 1,739,198; Dec. 10.  
Eyeglass and spectacle case. S. E. Bouchard. Des. 80,104; Dec. 17.  
Eyeglass cleaner. G. B. McCormack. 1,728,555; Aug. 6.  
Eyeglass construction. R. S. Blair. 1,726,466-7; Aug. 27.  
Eyeglass construction. C. L. Flavin. 1,728,727; Sept. 17.  
Eyeglass construction. E. D. Nerney. 1,701,009; Feb. 5.  
Eyeglass construction. F. A. Short. 1,737,979; Dec. 3.  
Eyeglass frames, Construction for. W. H. Siddall. 1,700,545; Jan. 29.  
Eyeglass mounting, Bridge for an. E. J. R. Beatty. Des. 78,703; June 11.  
Eyeglass shield. H. M. Schryver. 1,710,245; Apr. 23.  
Eyeglass shield. J. Takacs. 1,706,682; Mar. 26.  
Eyeglasses. J. Gaspari. Des. 77,479-80; Jan. 15.  
Eyeglasses. A. J. Schwartz. 1,737,521; Nov. 26.  
Eyelash comb. J. P. and E. F. Miller. 1,727,837; Sept. 10.  
Eyelashes for dolls, Artificial. P. Harris. 1,741,415; Dec. 31.  
Eye, Moving. R. A. Freundlich. 1,718,346; June 25.  
Eyepiece for optical instruments. C. W. Keuffel. 1,712,112; May 7.  
Eye set. A. Konoff. 1,726,184; Aug. 27.  
Eye set. S. Marcus. 1,698,553; Jan. 8.  
Eye sets in doll heads, Fitting. J. H. Wilhelm. 1,739,197; Dec. 10.  
Eyeshade. H. A. Dorzab. Des. 78,155; Apr. 2.  
Eyeshade. J. E. McCulloch. 1,715,612; June 4.  
Eyeshade. L. L. Wickland. 1,722,120; July 23.  
Eyeshade for auto drivers. O. and L. Westgaard. 1,712,285; May 7.  
Eyeshade with cap, Folding. S. Mahlmann. 1,718,867; June 25.  
Eyeshield. R. H. Gilkerson. 1,720,548; July 9.  
Eyeshield. C. Haustein. 1,706,667; Mar. 26.  
Eyeshield, Motorist's. F. W. Magee. 1,741,061; Dec. 24.  
Eye-testing apparatus. W. L. Wall. 1,741,213; Dec. 31.  
Eye-testing device. B. D. Ritholz. 1,712,847; May 14.  
Eye-testing device. B. D. Ritholz. 1,727,411; Sept. 10.  
Eye-testing machine. J. Shore. 1,719,733; July 2.  
Eyes, Artificial. J. H. Wilhelm. 1,740,675; Dec. 24.  
Eyes for dolls, Rolling. A. Konoff. 1,727,508; Sept. 10.  
Eyes for dolls, Rolling. S. Marcus and A. Konoff. 1,727,477; Sept. 10.  
Eyes for toy figures. H. Steiner. 1,710,791; Apr. 30.  
Fabric: See—  
Abrasive fabric. Elastic fabric.  
Appiqué fabric. Elastic woven fabric.  
Beaded fabric. Elasticized fabric.  
Bed-bottom fabric. Felt fabric.  
Bedspring fabric. Gas-cell fabric.  
Building fabric. Gas-retaining fabric.  
Cellular fabric. Knit fabric.  
Coat-of-mail metallic mesh fabric. Knitted fabric.  
Decorative fabric. Metal fabric.
- Fabric: See—  
File fabric. Textile fabric.  
Protecting fabric. Weatherproof fabric.  
Spring fabric. Wire fabric.  
Stake and strand simulating fabric. Woven fabric.  
Fabric. C. A. Coups. 1,733,116; Oct. 29.  
Fabric. A. B. Hook. Des. 79,082-85; July 30.  
Fabric. A. B. Hook. Des. 79,371; Sept. 10.  
Fabric. H. N. Huse. 1,721,154; July 16.  
Fabric. A. S. Losey. 1,715,006; May 28.  
Fabric. W. H. Mayer, jr. Des. 79,599; Oct. 15.  
Fabric. F. B. Riley. 1,704,344; Mar. 5.  
Fabric. F. J. Zimmerer, jr. 1,702,289; Feb. 19.  
Fabric and making the same, Fibrous. G. C. Rasch. 1,722,764; July 30.  
Fabric and making the same, Knitted. W. J. Wesseler. 1,738,486; Dec. 3.  
Fabric and producing the same, Decorated. R. V. Brett. 1,718,409; June 25.  
Fabric and rubber elements, Apparatus and method for forming. D. E. Hennessy. 1,727,372; Sept. 10.  
Fabric and the like, Electrically-heated. W. D. Graham. 1,741,054; Dec. 24.  
Fabric, Apparatus for making a cellular. G. B. Hinton. 1,733,018; Oct. 22.  
Fabric, Articles made of. W. H. Kobbé. 1,742,145; Dec. 31.  
Fabric binding. R. C. Merriam. 1,700,067; Jan. 22.  
Fabric bolt board. I. H. Berstein. 1,736,776; Nov. 26.  
Fabric-coating machine. W. D. Timmons. 1,729,368; Sept. 24.  
Fabric cutter. W. R. Barrett. 1,732,149; Oct. 15.  
Fabric-cutting machines, Stock pick-up for. H. A. Denmire. 1,731,713; Oct. 15.  
Fabric-expanding device. E. Wagner. 1,719,149; July 2.  
Fabric for hats. G. E. McLean. 1,697,877; Jan. 8.  
Fabric for hats, Imitation-straw-braid. A. C. Elshewitz. Des. 77,477; Jan. 15.  
Fabric for window screens, Screen doors, and the like. W. G. Ilch. 1,704,195; Mar. 5.  
Fabric-forming machine. Z. R. and J. R. Maulsby. 1,724,493; Aug. 13.  
Fabric-forming machine. Z. R. and J. R. Maulsby. 1,733,853; Oct. 29.  
Fabric guide. W. F. Irrgang. 1,717,845; June 18.  
Fabric-manipulating apparatus. R. D. Evans. 1,712,338; May 7.  
Fabric materials, Improving tensile strength of. P. B. Cochran. 1,699,779; Jan. 22.  
Fabric or material and the manufacture thereof. T. C. Woodman and W. A. Pickie. 1,716,255; June 4.  
Fabric or similar article of manufacture, Textile. A. J. Heinke. Des. 77,767-9; Feb. 19.  
Fabric or similar article, Textile. J. Castro. Des. 77,532; Jan. 22.  
Fabric or similar article, Textile. J. Castro. Des. 77,740-1; Feb. 19.  
Fabric or similar article, Textile. C. Muentener. Des. 79,896-8; Nov. 12.  
Fabric or similar article, Textile. J. W. Rau. 79,566; Oct. 8.  
Fabric or similar article, Textile. W. Willheim. Des. 77,575-85; Jan. 22.  
Fabric or similar article, Textile. W. Willheim. Des. 78,321-2; Apr. 16.  
Fabric or the like, Printed textile. E. G. Meyers. Des. 77,425-7; Jan. 8.  
Fabric or the like, Printed textile. L. G. Weaver. Des. 78,319; Apr. 16.  
Fabric or the like, Textile. L. O. Pickett. 79,339; Sept. 3.  
Fabric plier. H. J. Carter. 1,703,474; Feb. 26.  
Fabric prepared to be slit and preparing the same, Wide. H. W. A. Dixon. 1,703,481; Feb. 26.  
Fabric, Textile. H. Schweizer. 79,573-75; Oct. 8.  
Fabricating individual shapes, Two-stage process of. J. W. Smith. 1,731,277; Oct. 15.  
Fabricating machine, Column-. V. B. Trevellyan and W. W. Smith. 1,702,370; Feb. 19.  
Fabricating materials, Apparatus for. H. I. Morris. 1,726,497; Aug. 27.  
Fabrics and making the same, Coloring agent for. A. Picareff. 1,733,392; July 30.  
Fabrics, Apparatus for the production of diagonal strand. F. B. Riley. 1,719,341; July 2.  
Fabrics, Composition for impregnating balloon. E. Trenckmann and B. Trenckmann. 1,730,544; Oct. 8.  
Fabrics, Facilitating repair of. I. H. Wilsey. 1,722,550; July 30.  
Fabrics having lap stripes and yarn variation, Mechanism for producing knitted. J. and R. H. Lawson. 1,702,608; Feb. 19.  
Fabrics, Making endless wire. R. Franck. 1,735,640; Nov. 12.  
Fabrics, Making printed. A. Burns. 1,733,938; Oct. 29.  
Fabrics, Manufacture of knitted warp. T. Vorck and P. Zimmermann. 1,711,624; May 7.  
Fabrics, Manufacture of mosaic. E. C. Dearden. 1,728,397-8; Sept. 17.  
Fabrics on knitting machines, Positioning transferred. W. L. Houseman and G. I. Blaetz. 1,711,022; Apr. 30.  
Fabrics, Producing wide loom. A. W. Baylis. 1,718,273; June 25.  
Fabrics, Treating textile. W. S. Rowley and H. W. Butterworth, jr. 1,741,338; Dec. 31.



- Face-heating pad. E. S. Wolfe and S. M. Lauton. 1,715,486; June 4.
- Face pack. W. L. Drew. 1,709,936; Apr. 23.
- Face plate or similar article. E. B. Grier. Des. 79,926; Nov. 19.
- Face-protecting device. H. F. C. Brinkhaus. 1,699,652; Jan. 22.
- Facial pack. 1,715,740; June 4.
- Facing apparatus. J. F. Burkholder. 1,721,943; July 23.
- Facing machine. J. L. Bernard. 1,723,999; Aug. 13.
- Factory-built structure. H. S. Cunliff. Des. 77,814; Feb. 26.
- Fair leader. G. T. Ronk. 1,732,485; Oct. 22.
- Fall board. T. F. Cheek. 1,715,280; May 28.
- Fall-board-operating mechanism. G. Caroccio. 1,712,980; May 14.
- Fan. W. W. Dennis. 1,725,344; Aug. 20.
- Fan. E. F. Guth. 1,699,201; Jan. 15.
- Fan. F. W. Holmes. 1,706,608; Mar. 26.
- Fan. F. C. Howe. 1,706,163; Mar. 19.
- Fan. A. L. Lambert. 1,724,604; Aug. 13.
- Fan. L. O. Monroe. 1,739,604; Dec. 17.
- Fan. D. Rodgers. 1,729,277; Sept. 24.
- Fan, Adjustable. C. S. Groner. 1,712,883; May 14.
- Fan, Air cooling and washing. W. A. Rowe. 1,717,412; June 18.
- Fan and classifier, Combined. A. H. Stebbins. 1,720,863; July 16.
- Fan and heater, Combination cooling. R. S. Hardin. 1,714,167; May 21.
- Fan attachment. C. D. Ryder. 1,723,953; Aug. 6.
- Fan attachment for tractors. W. V. Sproles. 1,721,645; July 23.
- Fan, Cabinet. A. H. Buckley. 1,713,946; May 21.
- Fan, Ceiling. C. Ringwald. Des. 79,761; Oct. 29.
- Fan, Combination hand. S. Minunno. 1,713,976; May 21.
- Fan construction. S. Johnson. 1,725,085; Aug. 20.
- Fan construction. P. Suter. 1,712,527; May 14.
- Fan, Decorated electric. S. A. Xippas. 1,708,197; Apr. 9.
- Fan diffuser. R. B. Respass. 1,738,078; Dec. 3.
- Fan, Disk. M. R. Robinson. 1,722,112; July 23.
- Fan, Double-flow. F. Falla. 1,728,204; Sept. 17.
- Fan, Electric. R. G. Richardson. 1,741,736; Dec. 31.
- Fan, Exhaust. J. Mihaly. 1,721,634; July 23.
- Fan, Exhaust or circulating. T. S. Pukerud. 1,699,751; Jan. 22.
- Fan for internal-combustion engines, Thermostatic-control. O. S. Jervan. 1,740,095; Dec. 17.
- Fan, Gyrratory. F. Diehl. 1,721,249; July 16.
- Fan motor. T. Noguchi. 1,704,575; Mar. 5.
- Fan, Mounting. A. C. Adams and C. W. Sullivan. 1,723,116; Aug. 6.
- Fan mounting. R. N. Berryman. 1,726,881; Sept. 3.
- Fan, Multiblade. A. Lawrie. 1,730,372; Oct. 8.
- Fan, Portable. W. H. Ginder. 1,712,698; May 14.
- Fan, Self-lubricating. C. E. Jeffers. 1,731,463; Oct. 15.
- Fan, Swinging. W. Cline. 1,707,387; Apr. 2.
- Fan, Ventilating. W. J. McCaig. Des. 77,558; Jan. 22.
- Fan, Vertical electric. S. A. Kippas. 1,723,227; Aug. 6.
- Fan-vibration-eliminating device. K. Nuttall. 1,715,669; June 4.
- Fans and the like, Felt-covered base member for electric. A. J. Pfaff, sr. 1,725,932; Aug. 27.
- Fans, Making. H. A. Tedman. 1,734,541; Nov. 5.
- Fare-box clamp. T. L. Shields. 1,703,964; Mar. 5.
- Fare-indicating device and system. J. H. Stoddard. 1,699,863; Jan. 22.
- Fare register. Solenoid-operated. E. H. Thompson. 1,699,930; Jan. 22.
- Fare-registering apparatus and stand therefor, Automatic. G. F. Rooke. 1,730,015; Oct. 1.
- Farm gate. M. L. Brochhausen. 1,701,294; Feb. 5.
- Farm implements, Earth-working attachment for. E. L. Darby. 1,713,744; May 21.
- Farming machine, Combined. J. W. Hearn. 1,715,235; May 28.
- Farrowing apparatus. W. S. Barker. 1,737,211; Nov. 26.
- Farrowing house. J. J. Karley. 1,708,098; Apr. 9.
- Fastener. J. C. Anderegg. 1,702,426; Feb. 19.
- Fastener. G. W. Blair. 1,712,976; May 14.
- Fastener. F. M. Carr. 1,699,486; May 15.
- Fastener. C. E. Dodd. 1,718,124; June 18.
- Fastener. L. N. Hayden. 1,707,189; Mar. 26.
- Fastener. G. Johnson. 1,723,971-3; Aug. 6.
- Fastener. R. E. Jones. 1,705,122; Mar. 12.
- Fastener. J. B. Kennedy and A. H. De Grotte. 1,720,080; July 9.
- Fastener. H. A. La Brecque. 1,724,288; Aug. 13.
- Fastener. A. Pfeiffer. 1,712,639; May 14.
- Fastener. A. Pfeiffer. 1,730,091; Oct. 1.
- Fastener. W. H. Pierce. 1,742,169; Dec. 31.
- Fastener. J. F. Powell. 1,705,781; Mar. 19.
- Fastener. D. I. Reiter. 1,716,462; June 11.
- Fastener. F. C. Rile. 1,729,489; Sept. 24.
- Fastener. C. C. Robbins. 1,704,373; Mar. 5.
- Fastener. W. A. Schmittgen. 1,727,134; Sept. 3.
- Fastener. E. L. Starr. 1,723,494; Aug. 6.
- Fastener. N. Statham. 1,719,490; July 2.
- Fastener. A. C. Strayer. 1,719,343; July 2.
- Fastener and fastener installation, Separable. R. F. Walters. 1,731,206; Oct. 8.
- Fastener and means for assembling and aligning the elements, Slider-operated. G. W. Blair. 1,740,763; Dec. 24.
- Fastener and removable mounting therefor, Hook. G. L. Pope. 1,700,594; Jan. 29.
- Fastener-attaching machine. W. Höfer. 1,732,845; Oct. 22.
- Fastener, Automatic. G. W. Blair. 1,739,500; Dec. 17.
- Fastener, Automatic. J. B. Kennedy. 1,741,158; Dec. 31.
- Fastener, Automobile hood. J. G. C. Mantle. 1,705,260-1; Mar. 12.
- Fastener, Bed-rail. C. J. Kindel. 1,733,460; Oct. 29.
- Fastener, Bed-rail. B. J. Swanson. 1,699,256; Jan. 15.
- Fastener, Belt. L. Montigny. 1,737,167; Nov. 26.
- Fastener, Belt. H. Schiehan. 1,710,431; Apr. 23.
- Fastener, Belt. R. W. Skinner. 1,736,377; Nov. 19.
- Fastener, Box. W. E. Smeizer. 1,716,348; June 4.
- Fastener, Casement. A. L. Doering. 1,704,560; Mar. 5.
- Fastener, Casement-window. A. Hoffman. 1,709,433; Apr. 16.
- Fastener, Casement-window. L. Parker. 1,740,830; Dec. 24.
- Fastener, Casement-window. R. C. Spencer. 1,711,159; Apr. 30.
- Fastener, Chain. D. W. Sigsworth. 1,735,798; Nov. 12.
- Fastener clasp, Bag-. W. C. Hieing. 1,730,459; Oct. 8.
- Fastener, Clip. W. B. Crockett. 1,702,596; Feb. 19.
- Fastener, Closure. W. H. Abbott. 1,700,013; Jan. 22.
- Fastener, Closure. T. O. Schrader. 1,701,593; Feb. 12.
- Fastener, Closure. T. O. Schrader. 1,703,249; Feb. 26.
- Fastener, Collar. A. J. Houston. 1,725,759; Aug. 27.
- Fastener, Collar. M. V. Sacharoff. 1,724,779; Aug. 13.
- Fastener, Conduit. F. C. Felix. 1,710,157; Apr. 23.
- Fastener construction, Interlocking. G. E. Prentice. 1,724,311; Aug. 13.
- Fastener, Curtain. R. V. Rooney. 1,731,986; Oct. 15.
- Fastener, Curtain. J. Vodka. 1,700,752; Feb. 5.
- Fastener, Detachable. W. R. Chamberlain. 1,724,003; Aug. 13.
- Fastener, Door. A. L. Hansen. 1,712,792; May 14.
- Fastener, Door. E. A. Swanson. 1,713,407; May 14.
- Fastener, Drawer. B. M. Holden. 1,738,004; Dec. 3.
- Fastener element, Resilient snap-. P. E. Fenton. 1,732,837; Oct. 22.
- Fastener elements, Making. G. W. Blair. 1,730,553; Oct. 8.
- Fastener elements, Making and attaching. G. Johnson. 1,731,667; Oct. 15.
- Fastener for automobile license plates. O. Wichmann and L. H. Smith. 1,706,761; Mar. 26.
- Fastener for automobiles, Hood. G. Williams. 1,735,557; Nov. 12.
- Fastener for barrier-post cables. N. F. Brown. 1,700,877; Feb. 5.
- Fastener for bathroom fixtures. H. Ashfield. 1,703,090; Feb. 26.
- Fastener for bracelets. A. A. Goldstein. 1,699,887; Jan. 22.
- Fastener for burial casket covers, Inner top. W. A. Grim and W. S. Grim. 1,731,098; Oct. 8.
- Fastener for can covers. A. Ekdahl. 1,699,780; Jan. 22.
- Fastener for cord bracelets, etc. C. A. Mealy. 1,717,574; June 18.
- Fastener for crate covers. J. B. Peterson. 1,724,362; Aug. 13.
- Fastener for display buttons. F. W. Hoag. 1,728,409; Sept. 17.
- Fastener for doors, panels, and the like, Concealed. H. Suck. 1,709,500; Apr. 16.
- Fastener for dust-collector bags. W. C. Miller. 1,703,681; Feb. 26.
- Fastener for freight-car doors, Seal. H. V. Conover. 1,717,666; June 18.
- Fastener for garments and other articles. C. L. Sanford. 1,704,579; Mar. 5.
- Fastener for garments and other articles. M. A. Strehlein. 1,731,066; Oct. 8.
- Fastener for milk-can tops. H. B. Porter. 1,728,945; Sept. 24.
- Fastener for name plates and the like, Snap-lock. M. W. Romig. 1,703,960; Mar. 5.
- Fastener for shoe strings, Knot. M. E. Jaques. 1,730,462; Oct. 8.
- Fastener for the hoods of automobiles. J. T. Roaten. 1,714,923; May 28.
- Fastener for the lids of milk or cream cans. J. M. Umberger and V. S. Perrine. 1,703,800; Feb. 26.
- Fastener for wearing apparel. S. Sullivan. 1,713,567; May 21.
- Fastener for windows, doors, and the like. D. J. Gallagher. 1,698,541; Jan. 8.
- Fastener for wire brushes. Tuft. H. Hertzberg. 1,735,277; Nov. 12.
- Fastener, Guard-rail. T. Maney. 1,723,797; Aug. 6.
- Fastener, Hood. R. J. Arnould. 1,740,325; Dec. 17.
- Fastener, Hood. C. R. Hennicke. 1,702,506-7; Feb. 19.
- Fastener, Hood. F. A. Whitten. 1,738,746; Dec. 10.
- Fastener-inserting machine. L. H. Lennion and R. B. Woodcock. 1,704,820; Mar. 12.
- Fastener-inserting machine. P. R. Glass. 1,699,696; Jan. 22.
- Fastener inserting machine. S. L. Gookin. 1,722,286; July 30.
- Fastener-inserting machine. A. H. Schmidtke. 1,711,251; Apr. 30.
- Fastener installation, Separable. A. G. Anderson. 1,720,408; July 9.
- Fastener, Lingerie. R. Freedman. 1,718,129; June 18.



- Fastener link for sprocket chains. T. Russell. 1,697,540; Jan. 1.
- Fastener means, Garment-. L. Roseman. 1,715,514; June 4.
- Fastener mechanism. A. J. Braun. 1,722,270; July 30.
- Fastener, Metallic. H. Rosenberg. 1,719,137; July 2.
- Fastener, Name-plate. D. W. Clemmons and M. H. Stoll. 1,709,007; Apr. 16.
- Fastener, Necktie. W. Richards. 1,711,031; Apr. 30.
- Fastener-operating device. N. Statham. Re17,437; Sept. 17.
- Fastener-operating mechanism, Antipanic door-. W. B. Bolles. 1,708,078; Apr. 9.
- Fastener or the like, Window. J. E. Calvin. 1,711,831; May 7.
- Fastener, Paper. R. H. Charlton. 1,704,121; Mar. 5.
- Fastener, Pin. S. F. Huntley. 1,724,090; Aug. 13.
- Fastener, Pull for a slide. R. H. Nicholson. Des. 78,779; June 18.
- Fastener, Quick-operating. E. A. Saunders. 1,726,965; Sept. 3.
- Fastener, Rail. F. Jones. 1,700,635; Jan. 29.
- Fastener, Rail. C. W. Lee. 1,708,765; Apr. 9.
- Fastener, Rail-joint. G. W. Harlan. 1,700,046; Jan. 22.
- Fastener, Roofing. W. H. Waddington. 1,697,153; Jan. 1.
- Fastener, Rope. H. E. Forman. 1,718,641; June 25.
- Fastener, Safety door. M. Dorion. 1,717,964; June 18.
- Fastener, Sash. R. R. Barnard. 1,718,995; July 2.
- Fastener, Sash. W. A. Carver. 1,722,198; July 23.
- Fastener, Sash. J. Holtzman. 1,727,977; Sept. 10.
- Fastener, Sash. A. F. Schmidt. 1,710,008; Apr. 23.
- Fastener, Sash. J. C. Vara. 1,714,196; May 21.
- Fastener, Self-locking pin. P. E. Fenton. 1,726,890; Sept. 3.
- Fastener, Self-locking pin. P. E. Fenton. 1,728,112; Sept. 10.
- Fastener, Self-locking pin. G. A. King. 1,703,151; Feb. 26.
- Fastener, Separable. C. H. Baker. 1,715,976; June 4.
- Fastener, Separable. C. H. Baker. 1,741,805; Dec. 31.
- Fastener, Separable. L. Bauer. 1,709,827; Apr. 23.
- Fastener, Separable. D. Bourque. 1,711,771; May 7.
- Fastener, Separable. F. S. Carr. 1,699,485; Jan. 15.
- Fastener, Separable. F. S. Carr. 1,711,454; Apr. 30.
- Fastener, Separable. E. N. Cummings. 1,733,650; Oct. 29.
- Fastener, Separable. P. L. Graham. 1,701,461; Feb. 5.
- Fastener, Separable. G. Johnson. 1,737,537; Nov. 26.
- Fastener, Separable. T. W. Johnson. 1,711,459; Apr. 30.
- Fastener, Separable. I. L. Kane and J. Scherfer. 1,703,825; Feb. 26.
- Fastener, Separable. A. W. Kimbell. 1,732,203; Oct. 15.
- Fastener, Separable. C. C. Miles. 1,714,230; May 21.
- Fastener, Separable. W. D. Peiffer and C. D. Harris. 1,741,789; Dec. 31.
- Fastener, Separable. H. A. Salley. 1,735,620; Nov. 12.
- Fastener, Separable. G. H. C. Shipman. 1,734,405; Nov. 5.
- Fastener, Separable. F. Ulrich. 1,723,496; Aug. 6.
- Fastener, Separable snap. F. S. Carr. 1,731,704; Oct. 15.
- Fastener-setting device. O. J. Groehn. 1,725,577; Aug. 20.
- Fastener-setting machine. J. O. Turner. 1,739,021; Dec. 10.
- Fastener-setting machine, Tape-applying. H. A. Evans and G. W. Jacques. 1,711,522; May 7.
- Fastener-setting machine, Tape-applying. G. W. Jacques. 1,700,165; Jan. 29.
- Fastener, Shoe-lace. L. Okrainetz and M. Syrkin. 1,703,689; Feb. 26.
- Fastener, Slate. C. Riesterer. 1,717,582; June 18.
- Fastener, Slide. F. Hirsh. 1,701,453; Feb. 5.
- Fastener, Snap. C. M. Taylor and E. T. W. Reed. 1,703,796; Feb. 26.
- Fastener socket and parts thereof, Snap-. D. I. Reiter. 1,740,266; Dec. 17.
- Fastener, Storm-window. M. L. Raymond. 1,725,419; Aug. 20.
- Fastener, Storm-window. H. T. Thompson. 1,716,356; June 4.
- Fastener, Stovepipe. H. Monroe. 1,712,048; May 7.
- Fastener, Strap. K. C. Augenstein. 1,700,992; Feb. 5.
- Fastener stud. M. F. Carr. 1,711,456; Apr. 30.
- Fastener, Tie. F. Kremiski and H. Siemerling. 1,726,185; Aug. 27.
- Fastener, Tie. G. L. Nikolopoulos. 1,724,769; Aug. 13.
- Fastener, Tie. G. G. Uth and H. Feurstein. 1,730,697; Oct. 8.
- Fastener, Tie and rail. A. L. Crane. 1,728,593; Sept. 17.
- Fastener, Tire-carrier. F. L. Kirby. 1,712,440; May 7.
- Fastener, Undergarment. M. Harvey. 1,705,113; Mar. 12.
- Fastener, Ventilating-sash. R. Krasberg. 1,735,081; Nov. 12.
- Fastener, Window. R. Borden. 1,708,565; Apr. 9.
- Fastener, Window. J. F. Maska and F. G. Erhart. 1,733,420; Oct. 29.
- Fastener, Window. E. G. Mathauer. 1,727,723; Sept. 10.
- Fastener, Window. M. McComas. 1,726,850; Sept. 3.
- Fastener, Window. G. L. Parkins. 1,737,891; Dec. 3.
- Fastener, Window. H. Reichert. 1,700,907; Feb. 5.
- Fastener, Window. C. Strom. 1,721,750; July 23.
- Fastener, Window-sash. J. Neiser. 1,724,216; Aug. 13.
- Fastener, Window-screen. C. J. McClinch. 1,730,779; Oct. 8.
- Fastener, Wire. G. F. Voight. 1,706,009; Mar. 19.
- Fastener, Wire. G. F. Voight. 1,714,458; May 21.
- Fastener, Wire. G. F. Voight. 1,724,327; Aug. 13.
- Fastener, Wrist-watch. H. A. Heugas. 1,738,579; Dec. 10.
- Fasteners, Device for making spiral wire. C. P. Gray. 1,733,961; Oct. 29.
- Fasteners, Method and machine for producing hair-gripping. S. H. Goldberg and W. H. Hermsdorf. 1,709,938; Apr. 23.
- Fasteners to envelopes, etc., attaching. G. C. Snyder. 1,726,003; Aug. 27.
- Fastening. A. Lewis and H. A. Widmer. 1,732,408; Oct. 22.
- Fastening apparatus, Bread-. O. F. Rohwedder. 1,724,368; Jan. 13.
- Fastening bands of cap closures, Device for forming the metallic. R. C. Adams. 1,705,386; Mar. 12.
- Fastening Blade. H. F. Cares. 1,718,030; June 18.
- Fastening Box. R. L. McCoubrie. 1,730,329; Oct. 1.
- Fastening Bumper. A. W. Nordgren and G. A. Burandt. 1,698,648; Jan. 8.
- Fastening device. R. Bienaimé. 1,733,108; Oct. 29.
- Fastening device. G. W. Blair. 1,720,314; July 9.
- Fastening device. G. W. Blair. 1,732,787; Oct. 22.
- Fastening device. N. S. Fillya. 1,717,671; June 18.
- Fastening device. L. J. Friedheim. 1,698,398; Jan. 8.
- Fastening device. L. B. Gump. 1,725,266; Aug. 20.
- Fastening device. P. Hicks. 1,742,141; Dec. 31.
- Fastening device. H. M. Kellogg. 1,741,942; Dec. 31.
- Fastening device. G. E. Linder. 1,726,673; Sept. 3.
- Fastening device. A. Novick. 1,719,618; July 2.
- Fastening device. R. Paulus. 1,740,262; Dec. 17.
- Fastening device. F. P. Reidhaar. 1,737,730; Dec. 3.
- Fastening device. D. I. Reiter. 1,715,044; May 28.
- Fastening device. D. I. Reiter. 1,739,987; Dec. 17.
- Fastening device. H. E. Sipe. 1,719,856; July 9.
- Fastening device. G. L. Smith. 1,742,014; Dec. 31.
- Fastening device. M. Tibbets. 1,704,228; Mar. 5.
- Fastening device. O. S. Tonn. 1,715,258; May 28.
- Fastening device. A. R. Wells. 1,734,410; Nov. 5.
- Fastening device, Cable-. O. K. Landis. 1,732,054; Oct. 15.
- Fastening device, Fishhook-. J. A. Hill. 1,739,590; Dec. 17.
- Fastening device, Flexible. A. B. Schachat. 1,731,638; Oct. 15.
- Fastening device for floor coverings. W. C. Joseph. 1,711,149; Apr. 30.
- Fastening device for overshoes. R. M. Glidden. 1,734,479; Nov. 5.
- Fastening device for screening apparatus. L. E. Soldan. 1,711,548; May 7.
- Fastening device for trunks, suitcases, and the like, Extensible. E. N. Kennedy. 1,705,526; Mar. 19.
- Fastening device for watches and other articles of jewelry. L. J. Cartier. 1,702,107; Feb. 12.
- Fastening device, Head-. M. A. Haslett. 1,725,917; Aug. 27.
- Fastening device, Multiple. H. Z. Cobb. 1,703,924; Mar. 5.
- Fastening device, Multiple. W. L. Pipes. 1,701,033; Feb. 5.
- Fastening device, Multiple-. W. L. Pipes. 1,714,726; May 28.
- Fastening device, Necktie-. J. G. Belunes. 1,704,422; Mar. 5.
- Fastening device, Safety. P. de Lapparent. 1,724,828; Aug. 13.
- Fastening device, Shoe-. C. F. Loofbourrow. 1,711,419; Apr. 30.
- Fastening device, Wire-. E. L. Benedict. 1,701,095; Feb. 5.
- Fastening devices, Apparatus for making. L. H. Morin. 1,737,261; Nov. 26.
- Fastening devices, Making. L. H. Morin. 1,737,262; Nov. 26.
- Fastening doors, windows, and the like, Device for. H. C. Ritterson. 1,722,355; July 30.
- Fastening, Dress. S. Daniell. 1,700,628; Jan. 29.
- Fastening for artificial limbs. J. F. Schweiger. 1,723,308; Sept. 17.
- Fastening for bed rails, Corner-. S. Ford. 1,741,051; Dec. 24.
- Fastening for headwear, Adjustable. J. W. Matlock. 1,709,181; Apr. 16.
- Fastening for rail bonds. E. Schenk. 1,726,925; Sept. 3.
- Fastening for threadless pipes. E. G. K. Anderson. 1,736,145; Nov. 19.
- Fastening, Guard-rail. T. Maney. 1,713,878; May 21.
- Fastening-inserting machine. F. L. Alley. 1,728,950; Sept. 24.
- Fastening-inserting machine. F. N. La Chapelle. 1,707,404; Apr. 2.
- Fastening-inserting machine. W. E. Collette. 1,740,498; Dec. 24.
- Fastening-inserting machine. J. Gouldbourn. 1,738,574; Dec. 10.
- Fastening inserting machine and gauge therefor. F. L. Mackenzie. 1,702,389; Feb. 19.
- Fastening inserting mechanism. F. E. Ewell. 1,730,359; Oct. 8.
- Fastening-inserting mechanism. E. R. Pope. 1,717,402; June 18.
- Fastening machine, Bread-. O. F. Rohwedder. 1,700,854; Feb. 5.
- Fastening means. A. Fridolph. 1,722,498; July 30.



- Fastening means. C. F. Hepler. 1,707,720; Apr. 2.  
 Fastening means. F. R. Higley. 1,721,626; July 23.  
 Fastening means. C. W. Wyman. 1,718,270; June 25.  
 Fastening means, Door-. J. E. Morris. 1,709,915; Apr. 23.  
 Fastening means for disk wheels, Rim-. M. Reid. 1,706,043; Mar. 19.  
 Fastening means for footwear. P. Wienskowitz. 1,739,023; Dec. 10.  
 Fastening means for securing fabric to a rigid base. W. J. Hadden. 1,734,769; Nov. 5.  
 Fastening means, Sash-. H. B. Stein. 1,715,957; June 4.  
 Fastening, Nut and screw. F. S. Carr. 1,711,453; Apr. 30.  
 Fastening, Nut and screw. F. S. Carr. 1,742,131; Dec. 31.  
 Fastening pail covers, Apparatus for. S. M. Johnson. 1,706,299; Mar. 19.  
 Fastening, Pipe. S. Brown. 1,737,214; Nov. 26.  
 Fastening, Retaining-valve. S. H. Campbell. 1,711,138; Apr. 30.  
 Fastening, Shoe. A. Love. 1,741,640; Dec. 31.  
 Fastening-supplying apparatus. L. H. Connor. 1,719,319; July 2.  
 Fast-speed cutter. W. R. Chapin. 1,723,843; Aug. 6.  
 Fats, oils, or oleaginous substances from materials yielding them, Recovery of. W. T. Powling. 1,722,015; July 23.  
 Fatty-acid peroxide, Making. W. B. Stoddard and V. R. Kokatnur. 1,718,609; June 25.  
 Faucet. A. C. Brown. 1,730,601; Oct. 8.  
 Faucet. F. W. Frankenberger. Des. 78,619; May 28.  
 Faucet. S. L. Hedberg. 1,705,404; Mar. 12.  
 Faucet. L. J. Hengesbach. 1,727,169; Sept. 3.  
 Faucet. B. Kaplan. 1,715,132; May 28.  
 Faucet. T. Larrigan. 1,712,707; May 14.  
 Faucet. C. A. Meals. 1,737,427; Nov. 26.  
 Faucet. E. L. Moore. Des. 80,084; Dec. 10.  
 Faucet. R. Mueller. 1,698,961; Jan. 15.  
 Faucet. C. E. Nash. 79,565; Oct. 8.  
 Faucet. C. E. Schardein. 1,739,864; Dec. 17.  
 Faucet. S. Smith. Des. 77,373; Jan. 1.  
 Faucet. S. Smith. Des. 77,453; Jan. 8.  
 Faucet. C. J. Sonner. 1,740,879; Dec. 24.  
 Faucet. W. O. Thompson. Des. 77,377; Jan. 1.  
 Faucet. T. S. Todd. 1,722,401; July 30.  
 Faucet. J. M. Travis. 1,726,086; Aug. 27.  
 Faucet. A. U. Walter. 1,734,506; Nov. 5.  
 Faucet attachment, Lavatory. E. G. Watrous. 1,722,613; July 30.  
 Faucet, Combination. B. G. Stern. 1,699,767; Jan. 22.  
 Faucet construction. C. F. H. Bohnhardt. 1,703,861; Mar. 5.  
 Faucet, Convertible. J. M. Keeler. 1,740,602; Dec. 24.  
 Faucet fitting. G. J. Morris. 1,721,786; July 23.  
 Faucet for water coolers or the like. D. H. Wyatt. Des. 80,005; Nov. 26.  
 Faucet handle. A. C. Brown. Des. 78,614; May 28.  
 Faucet handle. A. C. Brown. 1,718,730; June 25.  
 Faucet handle. A. C. Brown. 1,721,586; July 23.  
 Faucet, Sanitary drinking. A. G. Haws. Des. 79,363; Sept. 10.  
 Faucet, Self-closing. J. W. Burnett. 1,726,885; Sept. 3.  
 Faucet, Stopper. H. R. Butts. 1,733,645; Oct. 29.  
 Faucet, Washerless. M. Erceg. 1,707,630; Apr. 2.  
 Faucets, Adapter for smooth-faced. G. V. Gavaza. 1,724,131; Aug. 13.  
 Faucets, Cut-off attachment for. W. L. Thaele. 1,702,580-1; Feb. 19.  
 Feather-plucking device. J. Dunner. 1,737,225; Nov. 26.  
 Feather-plucking device, Tapered roller. J. Dunner. 1,737,226; Nov. 26.  
 Feather-treating machine. D. F. Williams. 1,724,541; Aug. 13.  
 Feed barrier for mangers. W. Y. Hiter. 1,738,068; Dec. 3.  
 Feed chuck. J. R. O'Connell. 1,701,213; Feb. 5.  
 Feed collet. J. O. Rutrick. 1,707,218; Apr. 2.  
 Feed-control apparatus for well-drilling mechanisms, Automatic. J. Bricken. 1,736,518; Nov. 19.  
 Feed device and magnetic separator, Combined. O. S. Anderson. 1,723,119; Aug. 6.  
 Feed for Diesel-type internal-combustion engines, Fuel. A. C. Attundu. 1,698,356; Jan. 8.  
 Feed for portable drills, Automatic. A. J. Wikander. 1,705,384; Mar. 12.  
 Feed gauge. P. A. Juul. 1,701,158; Feb. 5.  
 Feed hopper, Wet-. A. Benzon. 1,713,886; May 21.  
 Feed machine, Cup-. J. R. Moffatt. 1,708,024; Apr. 9.  
 Feed mechanism. W. R. Bendy. 1,709,109; Apr. 16.  
 Feed mechanism. G. H. Neidlinger. 1,741,033; Dec. 24.  
 Feed mechanism. K. K. Wright. 1,703,466; Feb. 26.  
 Feed mechanism, Auxiliary. E. Laxo and N. J. Schaal. 1,739,153; Dec. 10.  
 Feed mechanism for meat slicers. W. A. Merklein and A. I. Dunn. 1,718,057; June 18.  
 Feed mechanism for pressure cookers. A. R. Thompson. 1,729,633; Oct. 1.  
 Feed mechanism for sheet material. F. D. Fowler. 1,716,375; June 11.  
 Feed mechanism for slicing machines. F. L. van Weenen. 1,708,246; Apr. 9.  
 Feed mechanism for traversing work sheets. H. A. Griffiths and R. H. Griffiths. 1,719,366; July 2.  
 Feed mechanism, Intermittent-. W. A. Riddell. 1,716,463; June 11.  
 Feed mixer. G. M. Agee. 1,725,240; Aug. 20.  
 Feed mixer. A. G. Kantmann. 1,725,279; Aug. 20.  
 Feed or supply device. W. W. McWilliams. 1,733,464; Oct. 29.  
 Feed, Producing cattle. J. F. Rumsey. 1,723,210; Aug. 6.  
 Feed regulating device. F. L. Furbush. 1,702,432; Feb. 19.  
 Feed roller, Suction-. A. Broadmeyer. 1,707,209; Mar. 26.  
 Feed-stop mechanism, Turret-. G. M. Class. 1,708,010; Apr. 9.  
 Feed system for steam power plants, Closed. J. G. Weir. 1,738,507; Dec. 3.  
 Feed-water-control system. J. M. Barrett. 1,702,375; Feb. 19.  
 Feed-water heater. P. Dugelay. 1,741,124; Dec. 24.  
 Feeder. W. L. Clouse and E. S. Jefferies. 1,727,634; Sept. 10.  
 Feeder. B. J. Cross. 1,729,032; Sept. 24.  
 Feeder. G. M. Meier. 1,717,164; June 11.  
 Feeder. F. Pardee. 1,719,305; July 2.  
 Feeder. D. W. Witham. 1,703,805; Feb. 26.  
 Feeder and conveyer, Sheet. T. A. Federwitz. 1,741,412; Dec. 31.  
 Feeder and exerciser, Chicken. W. Harms. 1,712,613; May 14.  
 Feeder and mixer, Coal-dust. W. M. Barker. 1,697,585; Jan. 1.  
 Feeder, Animal. W. M. Rowles. 1,701,338; Feb. 5.  
 Feeder, Automatic. F. N. Whitesell. 1,705,885; Mar. 19.  
 Feeder bar. W. A. Hartline. 1,706,923; Mar. 26.  
 Feeder clamp, Combined trolley. H. N. Richards. 1,739,090; Dec. 10.  
 Feeder for conical rolls and the like. O. Schlaupitz. 1,732,283; Oct. 22.  
 Feeder for cup-shaped bodies. A. Schmidt. 1,739,422; Dec. 10.  
 Feeder for fowls, Automatic. J. Q. Clarke. 1,720,884; July 16.  
 Feeder for ingot molds. A. R. Rowe. 1,730,384; Oct. 8.  
 Feeder for pickers, willows, etc., Automatic. J. E. Miller and J. A. Cash. 1,697,127; Jan. 1.  
 Feeder for sheet material. L. E. La Bombard and M. H. Sidebotham. 1,717,695; June 18.  
 Feeder, Hog. G. W. Smidley. 1,719,245; July 2.  
 Feeder, Poultry. C. E. Hedrick. 1,708,838; Apr. 9.  
 Feeder, Poultry. C. Sommers. 1,733,831; Oct. 29.  
 Feeder, Poultry. W. N. Tucker. 1,741,083; Dec. 24.  
 Feeding and burning fuel, Apparatus for. A. B. Fahnestock. 1,709,902; Apr. 23.  
 Feeding and metering pulverulent material, Apparatus for. E. G. Bailey. 1,736,243; Nov. 19.  
 Feeding apparatus. E. G. Gartin. 1,740,683; Dec. 24.  
 Feeding apparatus. W. M. Pestel. 1,722,822; July 30.  
 Feeding apparatus, Rabbit-hutch. J. K. Dolan. 1,719,104; July 2.  
 Feeding apparatus, Regulatable. L. V. Andrews and O. Craig. 1,731,515; Oct. 15.  
 Feeding apparatus, Sheet-. B. F. Guest. 1,698,400; Jan. 8.  
 Feeding articles, Apparatus for. C. Knoth. 1,712,081; May 7.  
 Feeding cartridge-shell bases, Mechanism for. H. Ernst and G. B. Williams. 1,700,217; Jan. 29.  
 Feeding cement slurry to rotary kilns. N. Nielsen. 1,708,705; Apr. 9.  
 Feeding device. E. M. Brennan and D. H. Hussey. 1,713,593; May 21.  
 Feeding device. S. Halvorsen. 1,716,126; June 4.  
 Feeding device. E. M. Jones. 1,723,786; Aug. 6.  
 Feeding device. A. C. Lyles. 1,733,066; Oct. 22.  
 Feeding device. H. M. Ross. 1,741,738; Dec. 31.  
 Feeding device, Centrifugal. A. Gillespie. 1,702,341; Feb. 19.  
 Feeding device for circular milling machines. H. Krauss. 1,703,076; Feb. 19.  
 Feeding device for slicing machine. G. R. Wood. 1,702,624; Feb. 19.  
 Feeding device, Outside. M. A. Gill. 1,705,154; Mar. 12.  
 Feeding device, Sheet-. C. E. Christopfel. 1,706,655; Mar. 26.  
 Feeding device, Sheet-. C. C. Johnson. 1,703,937; Mar. 5.  
 Feeding folded or unfolded sheets to printing, folding, or other machines, Apparatus for. G. Spiess. 1,708,157; Apr. 9.  
 Feeding fuel to internal-combustion engines by means of pressure, System of. E. A. Rockwell. 1,725,209; Aug. 20.  
 Feeding glass, Process and apparatus for. W. J. Miller. 1,717,802; June 18.  
 Feeding machine. Proportional. H. G. Woodhead. 1,703,465; Feb. 26.  
 Feeding material, Method of and apparatus for. E. Pugh. 1,706,741; Mar. 26.  
 Feeding means, Stock-. D. E. Milne. 1,734,868; Nov. 5.  
 Feeding mechanism. W. G. Aldeen. 1,739,054; Dec. 10.  
 Feeding mechanism. J. C. Bohmker. 1,720,994; July 16.  
 Feeding mechanism. C. F. Brockway. 1,737,356; Nov. 26.  
 Feeding mechanism. W. Dalheimer. 1,728,109; Sept. 10.  
 Feeding mechanism. W. W. Davidson. 1,741,451; Dec. 31.  
 Feeding mechanism. E. G. Gartin. 1,703,842; Feb. 26.  
 Feeding mechanism. F. C. Griswold. 1,723,546; Aug. 6.  
 Feeding mechanism. E. T. Hall. 1,740,692; Dec. 24.  
 Feeding mechanism. S. Halvorsen. 1,726,021; Aug. 27.  
 Feeding mechanism. J. E. Lane. 1,701,483; Feb. 5.  
 Feeding mechanism. E. T. Lorig and A. R. McArthur. 1,706,533; Mar. 26.  
 Feeding mechanism. M. J. Milmoie. 1,711,647; May 7.



- Feeding mechanism. C. L. Post. 1,730,477; Oct. 8.  
Feeding mechanism, Differential. J. R. Moffat. Re17,229; Mar. 5.  
Feeding mechanism for concrete mixers, Solution. H. D. Wells. 1,740,324; Dec. 17.  
Feeding mechanism for sheet-cutting machines. C. J. Beck. 1,707,839; Apr. 2.  
Feeding mechanism, Fuel. C. H. Rich. 1,700,710; Jan. 29.  
Feeding mechanism, Sheet. A. Broadmeyer. 1,697,752; Jan. 1.  
Feeding mechanism, Sheet. F. S. Sternad. 1,697,407; Jan. 1.  
Feeding mechanism, Stock. G. S. Smith. 1,732,821; Oct. 22.  
Feeding mechanism, Web. G. Spiess. 1,699,507; Jan. 15.  
Feeding plastic material to molds, Method and mechanism for. W. J. Miller. 1,703,316; Feb. 26.  
Feeding powdered fuel, Apparatus for. E. Hermsdorf. 1,699,588; Jan. 22.  
Feeding system for motor vehicles, Fuel. A. G. Redmond. 1,702,669; Feb. 19.  
Feeding system, Fuel-oil. W. B. S. Whaley. 1,706,011; Mar. 19.  
Feeler or filling detector. D. Lemieux. 1,734,525; Nov. 5.  
Felling machine, Blindstitch. C. W. Mueller. 1,740,901; Dec. 24.  
Felling machine, Blindstitch. S. G. Tate. 1,740,882; Dec. 24.  
Felling machines, Chaining presser foot for. J. M. Biddle. 1,713,324; May 14.  
Felly. S. C. Hatfield. 1,698,055; Jan. 8.  
Felt and product obtained therefrom, Method of and apparatus for producing. H. M. Herbener. 1,710,977; Apr. 30.  
Felt fabric, Needled. T. S. McDermott. 1,737,607; Dec. 3.  
Felted sheet and making same. L. Kirschbraun. 1,725,647; Aug. 20.  
Felting woolen and like textile fabrics having wool powder incorporated therewith. E. Ricalens. 1,721,470; July 16.  
Fence. A. Rich. 1,720,004; July 9.  
Fence gate. F. H. Beach. 1,722,365; July 30.  
Fence guard. C. E. Baum. 1,726,878; Sept. 3.  
Fence, Highway. J. H. Ramsey. 1,718,876-7; June 25.  
Fence machine and the like. F. Adam. 1,711,194; Apr. 30.  
Fence, Portable. I. A. Tilton. 1,703,372; Feb. 26.  
Fence post. W. C. Achterkirch. 1,704,644; Mar. 5.  
Fence post. J. McBride. 1,714,388; May 21.  
Fence post. H. Mierkey. 1,709,732; Apr. 16.  
Fence post. L. H. Scott. 1,720,859; July 16.  
Fence post and fence-attaching staple therefor. B. E. Hauser. 1,719,109; July 2.  
Fence-post brace. F. A. Ziebarth. 1,735,101; Nov. 12.  
Fence-post clamp. R. Dandliker. 1,712,752; May 14.  
Fence-post clamp. P. A. Peterson. 1,725,475; Aug. 20.  
Fence post, Reinforced concrete. A. M. Thompson. 1,732,290; Oct. 22.  
Fence protector. W. E. Callane. 1,704,167; Mar. 5.  
Fence, Road-guard. J. W. Meaker. 1,711,898; May 7.  
Fence, Snow. G. C. Abbe. 1,721,894; July 23.  
Fence, Snow. L. Glanzer. 1,709,787; Apr. 16.  
Fence stretcher, Wire. J. Guthrie. 1,710,021; Apr. 23.  
Fence structure. J. B. Getz. 1,703,189; Feb. 26.  
Fencing implement. J. Krashenninnikoff. 1,739,795; Dec. 17.  
Fencing, railings, or gates, Manufacture of. J. W. E. Bettles. 1,703,608; Feb. 26.  
Fender: See—  
Automobile fender. Vehicle fender.  
Fender and lamp casing for vehicles, Combined. J. R. Hughes. Des. 80,229; Dec. 31.  
Fender for automobiles, Nonmetallic resilient. H. J. Scheid. 1,699,572; Jan. 22.  
Fender for motor cars, Safety. J. R. Vallé. 1,740,526; Dec. 24.  
Fender for motor vehicles, Safety. E. Anderson. 1,723,987; Aug. 13.  
Fender guard. D. L. Benton. Des. 77,587; Jan. 29.  
Fender guard, Rear. G. W. Yanss. 1,723,832; Aug. 6.  
Fender, head lamp, and parking lamp for vehicles, Combined. J. R. Hughes. Des. 80,228; Dec. 31.  
Fender jack. W. E. Thayer. 1,739,488; Dec. 10.  
Fender vise. J. R. Hilstad and H. H. Canterbury. 1,697,117; Jan. 1.  
Fenders, Construction for motor vehicle. R. S. Blair. 1,719,646; July 2.  
Fermentation apparatus. W. J. Edmonds. 1,740,163; Dec. 17.  
Fermentation process. J. Van Loon. 1,727,193; Sept. 3.  
Fern stand. I. Marshak. Des. 78,527-8; May 14.  
Fern stand. J. B. Salterini. Des. 78,944; July 9.  
Ferrosilicon, Making. T. Bailey. 1,727,193; Sept. 3.  
Ferryboard-propulsion device. S. A. Hoge and F. Lopp. 1,706,732; Mar. 26.  
Fertilizer and resulting product, Producing. A. MacLachlan. 1,718,297; June 25.  
Fertilizer, Artificial. H. Heimann. 1,698,793; Jan. 15.  
Fertilizer compound, Producing. A. Martin and J. Johnston, jr. 1,733,745; Oct. 29.  
Fertilizer distributor. J. K. Kolb. 1,737,377; Nov. 26.  
Fertilizer distributor. E. C. Litchfield and V. Speer. 1,713,389; May 14.  
Fertilizer, Distributor. H. D. Smith. 1,722,713; July 30.  
Fertilizer distributor. J. T. Urquhart. 1,738,085; Dec. 3.  
Fertilizer, Making mixed. W. Gaus, R. Griessbach, and O. Schliephake. 1,699,234; Jan. 15.  
Fertilizer material and manufacturing the same. G. P. Walton and R. F. Gardiner. 1,703,504; Feb. 26.  
Fertilizer, Mixed. E. Schwarz. 1,699,254; Jan. 15.  
Fertilizer, Preparing. F. Rothe and H. Brenek. 1,696,975; Jan. 1.  
Fertilizers, Mixing. J. M. Parrish. 1,739,732; Dec. 17.  
Fertilizers, Preparing. F. Rothe and H. Brenek. 1,704,218; Mar. 5.  
Fiber articles and making same, Molded indurated. H. H. Clark. 1,717,092; June 11.  
Fiber articles, Production of. M. M. Frost. 1,726,818; Sept. 3.  
Fiber articles, Production of. M. M. Frost. 1,735,426-9; Nov. 12.  
Fiber, artificial silk, Producing fine. A. Wagner. 1,706,717; Mar. 26.  
Fiber board, Apparatus for making. W. M. Shoemaker, jr. 1,714,641; May 28.  
Fiber board, Making. O. Mantius. 1,723,051; Aug. 6.  
Fiber board, Making. W. M. Shoemaker, jr. 1,714,640; May 28.  
Fiber composition and making the same. H. L. Trumbull. 1,708,111; Apr. 9.  
Fiber-dish machine. G. A. Bell and J. H. Carson. 1,731,606; Oct. 15.  
Fiber from fiber-bearing plant stems, Process and apparatus for deriving spinning. R. Forsyth. 1,729,772; Oct. 1.  
Fiber liberation and recovery of valuable constituents of waste liquor. G. A. Richter. 1,719,129; July 2.  
Fiber liberation, Cyclic process of. G. A. Richter. 1,730,383; Oct. 8.  
Fiber material from stalks, Method of and apparatus for obtaining. E. Gminder. 1,715,911; June 4.  
Fiber, Processing of cellulose. M. O. Schur and R. H. Rasch. 1,730,387; Oct. 8.  
Fiber, Producing. A. Tingle. 1,714,831; May 28.  
Fiber pulp, Bleaching. H. A. Helder. 1,732,511; Oct. 22.  
Fiber spool and process. A. L. H. Ledeboer. 1,699,704; Jan. 22.  
Fiber vessels, Method and apparatus for producing. G. K. Hoff, jr. 1,716,554; June 11.  
Fibers for pulp making purposes, Preservation of. T. B. Munroe and E. C. Lathrop. 1,739,645; Dec. 17.  
Fibers from liquids, Method and apparatus for recovery of. A. M. R. Karlstrom. 1,717,223; June 11.  
Fibers, Increasing the strength and elasticity of cotton. M. Melland. 1,717,992; June 18.  
Fibers, Manufacturing hollow rayon. W. O. Snelling. 1,713,679; May 21.  
Fibers, Shrinking and felting animal. J. H. Martin. 1,727,374-5; Sept. 10.  
Fibers, Utilizing stem. C. E. Bahre. 1,739,491; Dec. 17.  
Fibrous articles, Method and apparatus for saturating. H. Parker. 1,738,794; Dec. 10.  
Fibrous board, Method and apparatus for making. J. J. Hinde. 1,730,849; Oct. 8.  
Fibrous compositions, Making felted. L. Kirschbraun. 1,722,434; July 30.  
Fibrous material and making same. H. F. Weiss. 1,737,282; Nov. 26.  
Fibrous material and producing the same, Distended. F. L. Bryant. 1,740,280; Dec. 17.  
Fibrous material for odorless containers. J. D. Rue, S. D. Wells, and F. G. Rawling. 1,724,778; Aug. 13.  
Fibrous material, Manufacture of nonplaniform sheets of. M. Koppelman. 1,719,819; July 2.  
Fibrous material, Mechanism for working. H. W. Jespersen. 1,713,904; May 21.  
Fibrous material, Process of and apparatus for producing inelastic. F. E. Clark. 1,712,068; May 7.  
Fibrous materials, Improving artificial. L. Lilienfeld. 1,724,670; Aug. 13.  
Fibrous product and making the same. F. T. Lahey. 1,726,905; Sept. 3.  
Fibrous product and making the same, Combined laminated. T. J. Ollesheimer. 1,707,135; Mar. 26.  
Fibrous product and making the same, Sized. H. M. Spencer. 1,714,052; May 21.  
Fibrous product, Manufacture of waterproof. H. L. Levin. 1,723,361; Aug. 6.  
Fibrous sheet, Laminated. M. Kliefoth. 1,737,285; Nov. 26.  
Fibrous sheet, Tapered. M. Kliefoth. 1,737,286; Nov. 26.  
Field commutator machine, Synchronous rotating. J. Jonas. 1,716,494; June 11.  
Field rings, Making. F. A. Houghton. 1,728,895; Sept. 17.  
Fifth-wheel structure. A. P. Lee. 1,737,724; Dec. 3.  
Fig inspection, Apparatus for. T. W. W. Forrest. 1,729,611; Oct. 1.  
Figure, Animal. M. W. Cunningham. Des. 78,921; July 9.  
Figure, Clinging. A. Kelly. 1,710,989; Apr. 30.  
Figure construction, Composite. J. N. Royal. 1,709,543; Apr. 16.  
Figure top and paint box, Combination. W. Pels. 1,710,679; Apr. 23.  
Figure types, Determination of. D. L. Pratt. 1,741,335; Dec. 31.  
Figures, characters, inscriptions, frames, utensils and other articles, fancy goods, and the like, Manufacturing. J. T6th. 1,702,623; Feb. 19.



- Figurette. H. N. Gove. 1,702,539; Feb. 19.  
 Filament for incandescent lamps and the like. F. Skaupy. 1,701,342; Feb. 5.  
 Filament mounts during the sealing in of such mounts, Locating and positioning. C. C. Bohner. 1,705,356; Mar. 12.  
 Filament rectifier, Hot-. E. W. Breisch. 1,740,494; Dec. 24.  
 Filament stretching and timing article, Combined. C. Nessler. Des. 80,041; Dec. 3.  
 Filament support and making it. C. J. Smithells. 1,730,076; Oct. 22.  
 Filament tube. M. Harris. 1,727,826; Sept. 10.  
 Filaments, Method of and apparatus for making concentrated. A. Fehse. 1,726,480; Aug. 27.  
 Filaments, Method of and apparatus for mounting. J. Flaws, jr. 1,728,048; Sept. 10.  
 Filaments, Method of and apparatus for mounting. G. Illingworth. 1,733,882; Oct. 29.  
 Filaments, Mounting coiled. J. J. Higgins. 1,733,802; Oct. 29.  
 Filaments, Shaping. W. B. Gero. 1,712,663; May 14.  
 File. B. Anderson. 1,727,853; Sept. 10.  
 File. E. A. Anheuser. 1,727,690; Sept. 10.  
 File. A. Bradley. 1,709,654; Apr. 16.  
 File. M. H. Kroiss. 1,721,822; July 23.  
 File. G. L. Preston. 1,716,187; June 4.  
 File. F. A. Reese. 1,728,574; Sept. 17.  
 File. J. S. Small. 1,709,043; Apr. 16.  
 File. Bill. L. E. McConnell, jr. 1,707,678; Apr. 2.  
 File. Bill. J. W. Wright. 1,736,384; Nov. 19.  
 File. Card. W. H. Shortlidge. 1,711,064; Apr. 30.  
 File case. A. H. Memmler. 1,702,789; Feb. 19.  
 File. Credit. R. J. Wood. 1,714,896; May 28.  
 File. Dental. C. S. Ivory. 1,737,374; Nov. 26.  
 File. Deposit-slip. G. E. Doughty. 1,698,841; Jan. 15.  
 File. Desk. S. Binks. 1,736,574; Nov. 19.  
 File. Document. A. T. Klopp. 1,721,344; July 16.  
 File. Document. W. Schaefer. 1,710,193; Apr. 23.  
 File-drawer compressor. F. B. Lineberger. 1,734,171; Nov. 5.  
 File. Finger-nail. H. Schwartzman. 1,707,879; Apr. 2.  
 File folder. A. H. Schaffert. 1,738,120; Dec. 3.  
 File for handling registered mail, parcel post, and C. O. D. packages. F. Vogel. 1,705,842; Mar. 19.  
 File for papers and like sheets. J. F. Veil. 1,734,658; Nov. 5.  
 File guide and handle. R. A. House. 1,708,388; Apr. 9.  
 File holder, Phonograph-record. A. Hudson. 1,707,614; Apr. 2.  
 File-milling head. E. A. Anheuser. 1,710,466; Apr. 23.  
 File. Nail. R. McFarland. 1,708,581; Mar. 26.  
 File. Open. C. C. Harris. 1,713,601; May 21.  
 File. Paper. C. E. Attwood. 1,739,202; Dec. 10.  
 File. Paper. H. S. McCracken. 1,737,053; Nov. 26.  
 File. Protected record. J. Q. Sherman. 1,731,180; Oct. 8.  
 File. Rotary. H. P. Lambert. 1,740,467; Dec. 24.  
 File. Rotary-disk. H. P. Lambert. 1,729,881; Oct. 1.  
 File. Safety counter bill. R. F. O'Neil. 1,705,306; Mar. 12.  
 File. Shielded. J. M. Laidlaw. 1,704,007; Mar. 5.  
 File. Stick. H. R. Shekajian. 1,713,926; May 21.  
 File. Storage. S. C. Huffman. 1,697,359; Jan. 1.  
 File. Vertical. F. W. French. 1,713,897; May 21.  
 File. Vertical. C. B. Ulrich. 1,698,518; Jan. 8.  
 File with double cut. H. Ufer. 1,725,686; Aug. 20.  
 Filet for vehicle wheels. A. Purdie. 1,729,895; Oct. 1.  
 Filing and indexing device. G. M. Sacerdote. 1,732,541; Oct. 22.  
 Filing and selecting apparatus. Card. C. Hentzschel. 1,709,430; Apr. 16.  
 Filing apparatus. C. J. Kay. 1,713,875; May 21.  
 Filing case. J. Bellis. 1,727,926; Sept. 10.  
 Filing case. M. H. Polindexter. 1,721,529; July 23.  
 Filing device. R. H. Charlton. 1,737,641; Dec. 3.  
 Filing device. L. R. E. Hutchings. 1,741,157; Dec. 31.  
 Filing device. R. J. Keays and E. I. Coffey. Re17,521; Sept. 3.  
 Filing device. A. Paulson. 1,707,969; Apr. 2.  
 Filing device. J. H. Rand, jr. 1,712,168; May 7.  
 Filing device. E. H. Salt. 1,731,828; Oct. 15.  
 Filing device. J. C. Sevl. 1,741,119; Dec. 24.  
 Filing device. M. H. Teale. 1,723,822; Aug. 6.  
 Filing device, Card-. J. Q. Sherman. 1,733,278; Oct. 29.  
 Filing device for dental purposes. H. Heilborn. 1,711,846; May 7.  
 Filing device, Saw-tooth-. L. Jeter. 1,740,019; Dec. 17.  
 Filing device, ftdy, paper rack, and the like. J. H. Field. 1,715,413; June 4.  
 Filing device, Vertical. D. E. Hunter. 1,708,017; Apr. 9.  
 Filing device, Visible-index-card. C. W. Land. 1,741,467; Dec. 31.  
 Filing element. H. E. Moliard. 1,714,517; May 28.  
 Filing machine. R. P. Thompson. 1,735,223; Nov. 12.  
 Filing or transmission of business papers, etc., Device for facilitating. E. A. Staples. 1,714,824; May 28.  
 Filing spindle. L. S. Riley. 1,713,192; May 14.  
 Filing system. R. P. Garrow. 1,710,796; Apr. 30.  
 Filing system, Card-. R. T. R. Hastings. 1,734,128; Nov. 5.  
 Fill, air-vent, and relief coupling, Combination. C. H. Ehlers. 1,712,877; May 14.  
 Fill cap. A. Joncha. 1,715,328; May 28.  
 Filled-bag-closing machine. C. S. Thompson and W. B. Long. 1,735,362; Nov. 12.  
 Filler and gauge for humidifying pans. T. Johnson. 1,698,682; Jan. 8.  
 Filler and polishing composition. W. F. Gowell. 1,717,023; June 11.  
 Filler and stain, Combined. E. D. Flood. 1,738,992; Dec. 10.  
 Filler cap. E. Tomlinson. 1,712,592; May 14.  
 Filler for cartons or other containers. F. H. Sherman. 1,741,741; Dec. 31.  
 Filler for railway crossings. G. E. Nagel. 1,720,187; July 9.  
 Filler for soap. E. Unfried. 1,707,334; Apr. 2.  
 Filler for vanity cases. W. T. Parkin. 1,713,240; May 14.  
 Fillers for shoes and boots, Method of and a machine for manufacturing. M. Grune. 1,724,473; Aug. 13.  
 Filling machine. O. G. Rieske. 1,728,254; Sept. 17.  
 Filling and capping bottles, Apparatus for. O. Larsen. 1,708,313; Apr. 9.  
 Filling and capping machine. M. Goldberger. 1,699,062; Jan. 15.  
 Filling and capping machine. M. Goldberger. 1,719,222; July 2.  
 Filling and dispensing apparatus. J. H. Brady. 1,709,770; Apr. 16.  
 Filling and lining, Brake-shoe. J. Laeuffer. 1,724,718; Aug. 13.  
 Filling and weighing machine, Automatic. G. A. Robinson. 1,739,862; Dec. 17.  
 Filling apparatus, Receptacle-. C. N. Bergmann. 1,720,028; July 9.  
 Filling bunch builder. H. H. Holcombe. 1,736,314; Nov. 19.  
 Filling cans and the like, Apparatus for. J. M. McClatchie. 1,708,482; Apr. 9.  
 Filling device, Portable. T. Krumm. 1,732,271; Oct. 22.  
 Filling machine. B. S. Harrington. 1,700,494; Jan. 29.  
 Filling machine. J. J. Mojonner, H. R. Phillips, and H. J. Clarke. 1,739,252; Dec. 10.  
 Filling machine. G. W. Mudd. 1,712,775; May 14.  
 Filling machine. L. D. Nelson. Re17,316; June 4.  
 Filling machine, Can-. C. H. Ayars. 1,702,887; Feb. 19.  
 Filling machine, Receptacle-. F. P. Pecard. 1,740,032; Dec. 17.  
 Filling mechanism. J. Kantor. 1,731,464-5; Oct. 15.  
 Filling mechanism. J. Kantor. 1,738,432; Dec. 3.  
 Filling of granular and powdered material, Apparatus for the. P. v. Körösy. 1,713,877; May 21.  
 Filling of vessels with liquid, Apparatus for controlling the. C. C. Smith. 1,706,942; Mar. 26.  
 Filling or charging containers with semisolid material, Apparatus for. A. Guidi. 1,700,405; Jan. 29.  
 Filling-pipe cap. D. S. Pfahl. 1,733,274; Oct. 29.  
 Filling station, Automatic. W. C. Appgar. 1,715,182; May 28.  
 Filling station, Self-operating. L. P. Starkey. 1,717,743; June 18.  
 Filling-vent structure for storage batteries. B. Ford. 1,736,116; Nov. 19.  
 Film and composition for making the same, Cellulose-ether. S. J. Carroll. 1,716,418-20; June 11.  
 Film and making same, Multicolor cinematograph and other. J. E. Thornton. 1,735,813; Nov. 12.  
 Film and producing the same, Multicolor cinematograph and other. J. E. Thornton. 1,735,811; Nov. 12.  
 Film carrier. C. W. Perry. 1,726,120; Aug. 27.  
 Film, Cinematograph. J. E. Thornton. 1,735,812; Nov. 12.  
 Film, Cinematograph positive. J. E. Thornton. 1,700,521; Jan. 29.  
 Film, Colored. L. Horst. 1,736,826; Nov. 26.  
 Film-developing apparatus. G. C. Beidler. 1,714,841; May 28.  
 Film drier. G. W. Hopkins. 1,726,834; Sept. 3.  
 Film-drive mechanism. H. Pfannenstiehl. 1,723,304; Sept. 17.  
 Film during the exposing thereof, Apparatus for photographically marking. W. M. Thomas. 1,741,386; Dec. 31.  
 Film-exposure apparatus for motion pictures. E. J. Crockett. 1,707,625; Apr. 2.  
 Film feed for cameras. A. F. Victor. 1,706,089; Mar. 19.  
 Film feeding device, Motion-picture-. G. M. Croil. 1,723,768; Aug. 6.  
 Film for color photography. R. Berthon. 1,729,922; Oct. 1.  
 Film for lenticular screen color photography and making the same. R. Berthon. 1,721,244; July 16.  
 Film for motion pictures in color. R. Berthon. 1,707,157; Mar. 26.  
 Film-forming solutions, Manufacture of. K. Ripper. 1,734,693; Nov. 5.  
 Film-frame apparatus. F. Cowan. 1,733,581; Oct. 29.  
 Film-handling apparatus. F. J. Mueller. 1,723,950; Aug. 6.  
 Film-handling apparatus. H. G. Pointing and G. W. Ford. 1,736,730; Nov. 19.  
 Film hanger. G. W. Hopkins. 1,740,175; Dec. 17.  
 Film-inspection means. K. C. Hickman. 1,716,441; June 11.  
 Film, Judging. J. G. Capstaff. 1,716,417; June 11.  
 Film material, Cinematograph-. J. E. Thornton. 1,700,617; Jan. 29.  
 Film material, Multicolor cinematograph. J. E. Thornton. 1,736,556; Nov. 19.  
 Film, Motion-picture. M. Berman. 1,733,481; Oct. 29.  
 Film, Motion-picture. V. D. Hill. 1,738,054; Dec. 3.  
 Film mount. W. F. Barry. 1,733,215; Oct. 29.



- Film, Multicolor cinematograph. J. E. Thornton. 1,736,555; Nov. 19.
- Film, Multicolor cinematograph and other. J. E. Thornton. 1,735,810; Nov. 12.
- Film, Photographic. H. Bradshaw. 1,703,470; Feb. 26.
- Film presser pad and mounting therefor. A. Dina. 1,728,670; Sept. 17.
- Film-pressure plate or pad for photographic cameras. A. J. Denniss and V. W. Edwards. 1,709,782; Apr. 16.
- Film printer. J. E. Brandenberger. 1,717,957; June 18.
- Film-printing machines, Registration means for. L. T. Troland. 1,716,989; June 11.
- Film-retaining roller. H. Pfannnstiehl. 1,733,557; Oct. 29.
- Film shifter. C. A. Bornmann. 1,740,279; Dec. 17.
- Film splice, Arcuate. W. F. McLaughlin and A. J. Swing. 1,728,974; Sept. 24.
- Film splice, Motion-picture. D. F. Lyman. 1,727,349; Sept. 10.
- Film splicer. W. F. McLaughlin and A. J. Swing. 1,734,141; Nov. 5.
- Film splicer and rewinder. W. F. McLaughlin and A. J. Swing. 1,734,142; Nov. 5.
- Film-splicing machine. J. G. Leo. 1,714,605; May 28.
- Film-splicing machine. W. F. McLaughlin and A. J. Swing. 1,734,140; Nov. 5.
- Film-spool construction. E. Goldberg and O. Fischer. 1,713,277; May 14.
- Film strips, Process and apparatus for the production of relief images on cinematograph. J. E. Thornton. 1,736,557; Nov. 19.
- Film-take-up device. H. E. Smith. 1,733,830; Oct. 29.
- Film viewer. T. Farmer, Jr. 1,729,660; Oct. 1.
- Films and applying them to printing stencils, Preparing masking. E. A. Owens. 1,706,038; Mar. 19.
- Films, Apparatus for cleaning. J. Frankenberg. 1,724,705; Aug. 13.
- Films, Machine for reenforcing. A. H. Smith. 1,706,941; Mar. 26.
- Films, Method of and apparatus for registering. W. E. Whitney. 1,707,699; Apr. 2.
- Films, Producing colored. R. F. Elder. 1,734,476; Nov. 5.
- Filter. G. A. Arnold. 1,741,672; Dec. 31.
- Filter. M. Bassion. 1,715,492; June 4.
- Filter. H. G. Dorsey. 1,730,411; Oct. 8.
- Filter. I. C. Fitts. 1,731,409; Oct. 15.
- Filter. G. H. Greenhalgh. 1,721,250; July 16.
- Filter. A. Jordahl and K. G. Runback. 1,708,065; Apr. 9.
- Filter. R. P. F. Liddell. 1,741,705; Dec. 31.
- Filter. C. H. Loew. 1,726,035; Aug. 27.
- Filter. C. W. McKinley. 1,723,053; Aug. 6.
- Filter. G. J. Meyer. 1,708,146; Apr. 9.
- Filter. R. B. Millard. 1,727,554; Sept. 10.
- Filter. H. Notz. 1,705,226; Mar. 12.
- Filter. H. E. Pelletier. 1,730,475; Oct. 8.
- Filter. K. E. Pietzsch. 1,741,334; Dec. 31.
- Filter. E. J. Sweetland. 1,734,652; Nov. 5.
- Filter. R. D. Tackaberry. 1,715,435; June 4.
- Filter. K. K. Wright. 1,710,758; Apr. 30.
- Filter, Air. L. L. Dollinger. 1,714,854; May 28.
- Filter, Air. N. T. Hiester. 1,737,587; Dec. 3.
- Filter, Air. R. Irvin. 1,741,867; Dec. 31.
- Filter, Air. P. Pirchio. 1,739,372; Dec. 10.
- Filter, Air. R. Speidel. 1,717,470; June 18.
- Filter, Air and gas. A. Jordahl. 1,738,249; Dec. 3.
- Filter, Air and oil. H. W. Slauson. 1,729,135; Sept. 24.
- Filter and base-exchange softener, Chemical. C. T. McGill. 1,698,890; Jan. 15.
- Filter and humidifier for furnaces, Air. E. E. Allen. 1,696,935; Jan. 1.
- Filter and lubricator, Oil and air. W. C. De Witt. 1,702,156; Feb. 12.
- Filter and softener, Base-exchange. C. T. McGill. 1,697,835; Jan. 1.
- Filter and still, Magazine. F. W. Manning. 1,722,809; July 30.
- Filter and strainer, Household water. F. Kasztory. 1,726,839; Sept. 3.
- Filter apparatus. W. Neumann. 1,708,704; Apr. 9.
- Filter bag. F. Olson. 1,733,114; Dec. 3.
- Filter, Beverage. J. Palmer. 1,706,250; Mar. 19.
- Filter-cake-discharging apparatus. J. A. McCaskell. 1,700,772; Feb. 5.
- Filter, Centrifugal. C. G. Hawley. 1,725,712; Aug. 20.
- Filter, Coffee. E. M. and E. K. Mennicke. 1,699,303; Jan. 15.
- Filter construction. W. Wagner. 1,698,079; Jan. 8.
- Filter, Continuous. J. D. Compain. 1,712,258; May 7.
- Filter-driving mechanism, Magazine. F. W. Manning. 1,725,811; Aug. 27.
- Filter, Electric-wave. E. S. Furlington. 1,703,171; Feb. 26.
- Filter, Electrical. G. B. Grouse. 1,738,760; Dec. 10.
- Filter element. O. V. Greene. 1,734,125; Nov. 5.
- Filter element. G. J. Lipscomb. 1,716,786; June 11.
- Filter for liquids, Pressure. N. Lanes. 1,735,007; Nov. 12.
- Filter for sewage treatment, Aerated contact. K. Imhoff. 1,700,723; Jan. 29.
- Filter for tanks. E. H. Camfield. 1,706,772; Mar. 26.
- Filter for well screens. W. H. Cater. 1,710,471; Apr. 23.
- Filter, Frequency. G. von Arco. 1,703,184; Feb. 26.
- Filter, Gas. C. C. Boardman. 1,710,469; Apr. 23.
- Filter, Gasoline. A. Babitch. 1,705,042; Mar. 12.
- Filter, Gasoline. J. W. Jones. 1,705,019; Mar. 12.
- Filter, Gasoline. F. A. Struck. 1,704,847; Mar. 12.
- Filter, Gravity. H. G. Kamrath. 1,737,313; Nov. 26.
- Filter, Gravity oil. W. S. Harden and R. D. Duley. 1,706,228; Mar. 19.
- Filter, Liquid, gasoline, and oil. J. Tekavec. 1,709,237; Apr. 16.
- Filter, Magazine. F. W. Manning. 1,723,741; Aug. 6.
- Filter, Magazine. F. W. Manning and H. L. Hirschler. 1,722,808; July 30.
- Filter medium for air and gases. A. M. Goodloe. 1,700,126; Jan. 29.
- Filter, Oil. M. M. Bassett. 1,702,489; Feb. 19.
- Filter, Oil. C. C. Blackmore. 1,701,556; Feb. 12.
- Filter, Oil. K. E. Fife. 1,723,274; Aug. 6.
- Filter, Oil. E. R. Hewitt. 1,720,475; July 9.
- Filter, Oil. J. T. McCutcheon. 1,723,945; Aug. 6.
- Filter, Oil. C. W. McKinley. 1,723,054; Aug. 6.
- Filter, Oil. W. W. Nugent. 1,708,517; Apr. 9.
- Filter, Oil. E. C. Raney. 1,728,305; Sept. 17.
- Filter or strainer, Rotary. F. W. Brackett. 1,726,608; Sept. 3.
- Filter pipe for sewage-treatment tanks. C. H. Currie. 1,715,537; June 4.
- Filter plate. J. P. Foster. 1,722,497; July 30.
- Filter press. P. G. Hollstein. 1,709,349; Apr. 16.
- Filter press. W. A. Tyler and R. Stark. 1,714,331; May 21.
- Filter press, Apparatus for opening and shutting a. P. Kogure. 1,727,832; Sept. 10.
- Filter-press electrolyzer. R. Pechkranz. 1,721,407; July 16.
- Filter press, Tubular. H. H. Cannon. 1,734,325; Nov. 5.
- Filter, Rotary. S. P. Miller. 1,730,159; Oct. 1.
- Filter-sand-cleaning machine. M. L. Bayard and M. Harvey. 1,713,320; May 14.
- Filter screen. W. L. D'Olier. 1,717,313; June 11.
- Filter, Self-cleaning spigot. J. S. Brady. 1,713,370; May 14.
- Filter structure. M. E. Chandler. 1,717,875; June 18.
- Filter, Suction. G. H. Dean. 1,722,626; July 30.
- Filter, Tank. C. G. Hawley. 1,726,827; Sept. 3.
- Filter thickening apparatus, Continuous. A. L. Genter. 1,716,040; June 4.
- Filter unit for internal-combustion-engine lubrication systems, Renewable. E. J. Sweetland. 1,718,390; June 25.
- Filter, Water-softening. H. M. Marsh and R. Stirling. 1,718,244; June 25.
- Filter, Wave. C. H. Fetter. 1,735,742; Nov. 12.
- Filterer for lamps. J. E. Wortman. 1,708,818; Apr. 9.
- Filtering and thickening mixtures. G. Cruickshank. 1,734,999; Nov. 12.
- Filtering apparatus. J. I. Goade. 1,700,160; Jan. 29.
- Filtering apparatus. A. König and G. Müller. 1,704,830; Mar. 5.
- Filtering attachment for anæsthetizing machines. J. A. Heidbrink. 1,741,233; Dec. 31.
- Filtering drum. J. B. Vernay. 1,720,156; July 9.
- Filtering liquids. H. H. Cannon. 1,710,343; Apr. 23.
- Filtering machine. F. Olson. 1,726,758; Sept. 3.
- Filtering material. H. Blumenberg, jr. 1,702,104; Feb. 12.
- Filtering material. H. Blumenberg, jr. 1,713,250-1; May 14.
- Filtering material. H. Blumenberg, jr. 1,734,197; Nov. 5.
- Filtering oil in the lubricating system of an internal-combustion engine. E. J. Sweetland. 1,699,680; Jan. 22.
- Filtering or like device. H. A. Thompson. 1,719,346; July 2.
- Filtering sulphur. A. J. Crowley. 1,731,562; Oct. 15.
- Filtering suspended organic matter from liquids, Method of and apparatus for. M. B. Spaulding. 1,709,286; Apr. 16.
- Filtering system. R. Audubert. 1,723,997; Aug. 13.
- Filters, Manufacture of artificial light. C. Holub. 1,730,574; Oct. 8.
- Filtration. E. A. Allott and A. E. Hatfield. 1,713,317; May 14.
- Fin construction. H. A. Higgins. 1,739,672; Dec. 17.
- Fin for fish balts, Horizontal. F. E. Comstock. 1,713,998; May 21.
- Fin for motor boats, Folding. H. L. Chisholm, jr. 1,703,868; Mar. 5.
- Fins to cylinders, Attaching. L. J. Purdy. 1,735,213; Nov. 12.
- Finger board. F. A. Williams. 1,708,004; Apr. 9.
- Finger board for musical instruments. K. I. Finney. 1,719,604; July 2.
- Finger board, Telescoping. G. E. Fentress, R. D. Bane, and M. L. Black. 1,720,823; July 16.
- Finger exerciser. D. Thomas. 1,707,151; Mar. 26.
- Finger moistener. C. C. Harris. 1,735,046; Nov. 12.
- Finger-nail clip. M. Schnefel. 1,721,415; July 16.
- Finger-nail shears. A. H. Koepf. 1,727,239; Sept. 3.
- Fingerprint apparatus. P. N. Waggener. 1,719,950; July 9.
- Finger recoil pad. W. H. Wilshire. 1,703,464; Feb. 26.
- Finger ring. M. Alpern. 1,712,783; May 14.
- Finger ring. C. R. Blancard. Des. 79,277-8; Aug. 27.
- Finger ring. H. M. and N. Dayton. 1,724,130; Aug. 13.
- Finger ring. H. Dinhofer. 1,702,893; Feb. 19.
- Finger ring. A. Elkonin. Des. 78,808; June 25.
- Finger ring. S. Grossman. Des. 79,883; Nov. 12.
- Finger ring. M. L. Novack. Des. 78,937; July 9.
- Finger ring. H. W. Peters. Des. 79,603; Oct. 15.
- Finger ring. H. W. Peters. 1,704,867; Mar. 12.
- Finger ring. J. C. Weiler. Des. 79,396; Sept. 10.



- Finish construction, Interior-. R. V. Parsons. 1,734,639; Nov. 5.
- Finish, Wrinkling. F. B. Root. 1,732,661; Oct. 22.
- Finisher. R. J. Crossman. 1,726,888; Sept. 3.
- Finishing machine. E. A. Dunn. 1,721,862; July 23.
- Finishing machine. J. Gouldbourn. 1,710,728; Apr. 30.
- Finishing machine for boots or shoes. J. Devleminck. 1,703,480; Feb. 26.
- Finishing strip or welt or upholstery. A. L. Howard. 1,708,063; Apr. 9.
- Finishing surfaces of hollow metal ware, Method and apparatus for. A. L. Fabens. 1,706,877; Mar. 26.
- Fire alarm. W. T. Bridges. 1,726,013; Aug. 27.
- Fire alarm. R. C. Coffey. 1,711,920; May 7.
- Fire alarm. H. T. Mitchell. 1,735,907; Nov. 19.
- Fire alarm, Automatic. H. H. Dyck. 1,726,477; Aug. 27.
- Fire alarm, Automatic. O. B. Elliott. 1,718,857; June 25.
- Fire alarm, Automatic. F. F. Randolph. 1,719,672; July 2.
- Fire alarm, Electrothermic. P. Ameglio. 1,712,975; May 14.
- Fire and heat deflector and heat retainer. P. P. Brautigam. 1,725,974; Aug. 27.
- Fire and radiator, Electric. H. H. Berry. 1,703,761; Feb. 26.
- Fire apparatus. J. B. Blaw. 1,715,981; June 4.
- Firearm. R. J. Alden. 1,741,902; Dec. 31.
- Firearm. K. Bergmann and J. Ottomanský. 1,722,190; July 23.
- Firearm. J. Destree. 1,713,954; May 21.
- Firearm. K. Diener. 1,731,844; Oct. 15.
- Firearm. L. L. Driggs, Jr., and H. B. Faber. 1,712,382; May 7.
- Firearm. G. G. Henry and S. Fales. 1,710,638; Apr. 23.
- Firearm. C. C. Loomis. 1,740,187; Dec. 17.
- Firearm. B. S. Parsons. 1,702,221; Feb. 12.
- Firearm, Automatic. R. Darne. 1,730,269; Oct. 1.
- Firearm, Automatic. J. Destree. 1,713,955; May 21.
- Firearm, Automatic. J. Destree. 1,735,160; Nov. 12.
- Firearm, Automatic. K. Heinemann. 1,725,272; Aug. 20.
- Firearm, Automatic. F. Herlach and T. Rakula. 1,709,399; Apr. 16.
- Firearm, Gas-operated automatic. F. T. Moore. 1,738,501; Dec. 3.
- Firearm, Repeating. C. G. Swebilius. 1,702,063; Feb. 12.
- Firearm with recoiling barrel and without movable breech, Automatic. G. Mascarucci. 1,733,231; Oct. 29.
- Firearms, Coaching and aiming apparatus for. R. M. Bair. 1,740,561; Dec. 24.
- Firearms for self defense, Automatic concealed. E. B. Juhasz. 1,726,228; Aug. 27.
- Firearms, Rear sight for. C. C. Loomis. 1,715,203; May 28.
- Firearms, Trigger mechanism for. F. F. Burton. 1,741,281; Dec. 31.
- Firearms, Trigger mechanism for. F. K. Young. 1,732,115; Oct. 15.
- Fireback, Hot-air. W. C. Helms. 1,714,955; May 28.
- Fire box. W. L. Bean and V. L. Jones. 1,706,376; Mar. 19.
- Fire box. N. W. Duff. 1,710,087; Apr. 23.
- Firebox arrangement for furnaces. A. T. Shipstead. 1,720,973; July 16.
- Fire-box construction. H. F. Braun. 1,715,333; May 28.
- Fire box, Locomotive. P. J. Conley. 1,705,718; Mar. 19.
- Fire box, Locomotive. L. L. Neebe. 1,704,624; Mar. 5.
- Fire box, Locomotive-boiler. C. M. Rogers. 1,700,140; Jan. 29.
- Firebrick, Making. E. P. Stevens. 1,727,138; Sept. 3.
- Fire control, Antiaircraft. R. V. Morse. 1,707,274; Apr. 2.
- Fire control apparatus for guns. H. Just and H. Hort. 1,722,923; July 30.
- Fire-control system for ordnance. J. C. Karnes. 1,716,821; June 21.
- Firecrackers wrapper and lighter, Combination. T. G. Hitt. 1,727,705; Sept. 10.
- Fire-curtain-operating device. T. Carrick. 1,700,626; Jan. 29.
- Fire engine, Automobile. J. C. Hansen-Ellehammer. 1,703,669; Feb. 26.
- Fire escape. C. A. Conkle. 1,713,028; May 14.
- Fire escape. C. F. Davy. 1,720,823; July 16.
- Fire escape. A. E. Johnson. 1,704,361; Mar. 5.
- Fire escape. W. W. Phillips. 1,714,813; May 28.
- Fire escape. R. N. Shearer. 1,734,833; Nov. 5.
- Fire escape. F. E. Stanley. 1,725,677; Aug. 20.
- Fire escape, Folded safety. M. Blaufeld. 1,723,129; Aug. 6.
- Fire-escape step. E. Ehlers. 1,731,300; Oct. 15.
- Fire extinguisher. R. W. Austin. 1,714,539; May 28.
- Fire extinguisher. R. W. Austin. 1,729,321; Sept. 24.
- Fire extinguisher. A. C. Badger. 1,715,346-7; June 4.
- Fire extinguisher. A. C. Badger. 1,725,775-8; Aug. 27.
- Fire extinguisher. H. Buddecke. 1,708,869; Apr. 9.
- Fire extinguisher. C. A. Buerk. 1,700,465; Jan. 29.
- Fire extinguisher. H. W. Doughty. 1,698,840; Jan. 15.
- Fire extinguisher. H. W. Doughty. 1,735,531; Nov. 12.
- Fire extinguisher. W. E. Everitt. 1,723,476; Aug. 6.
- Fire extinguisher. V. G. W. Gilbert. 1,736,153; Nov. 19.
- Fire extinguisher. J. F. Hartney and G. R. Larkin. 1,710,163; Apr. 23.
- Fire extinguisher. E. B. Larkin and T. A. Conneely. 1,707,674; Apr. 2.
- Fire extinguisher. C. S. Livingston. 1,732,274; Oct. 22.
- Fire extinguisher. C. C. Munson. 1,740,665; Dec. 24.
- Fire extinguisher. T. H. Parker. 1,719,277; July 2.
- Fire extinguisher. G. W. Reams. 1,708,553; Apr. 9.
- Fire extinguisher. W. W. Walker. 1,709,382; Apr. 16.
- Fire extinguisher, Automatic. C. C. Butler. 1,730,802; Oct. 8.
- Fire-extinguisher apparatus, Chemical. J. E. Allen and H. G. Schwoepe. 1,703,702; Feb. 26.
- Fire extinguisher, Chimney-. S. L. Holt and G. H. Kimball. 1,719,371; July 2.
- Fire extinguisher, Foam-type. A. O. Boniface. 1,721,896; July 23.
- Fire-extinguisher unit. W. D. Witter. 1,739,274; Dec. 10.
- Fire-extinguishing arrangement. L. Weidmann and E. Tittel. 1,734,186; Nov. 5.
- Fire-extinguishing compound. G. Blenio. 1,707,597; Apr. 2.
- Fire-extinguishing form, Producing. L. Faber. 1,734,164; Nov. 5.
- Fire-extinguishing liquid. R. W. Austin. 1,716,476; June 11.
- Fire-fighting appliance. D. E. Carey. 1,735,376; Nov. 12.
- Fire-fighting appliance. J. T. Mulroy. 1,720,427; July 9.
- Fire-fighting device. G. T. Pearsons. 1,703,205; Feb. 26.
- Fire finishing glass articles, Apparatus for. J. M. Lents and F. R. Miller. 1,718,654; June 25.
- Fire-foam-delivery apparatus. H. Burmeister. 1,740,067; Dec. 17.
- Fire nose, Shut-off for. D. S. Kellam. 1,701,411; Feb. 5.
- Fire kindler. D. von Bottke. 1,701,285; Feb. 5.
- Fireplace. R. J. Clark. 1,716,029; June 4.
- Fireplace. P. D. Cormier. 1,713,521; May 21.
- Fireplace. S. A. Ford and R. Waldie. 1,711,090; Apr. 30.
- Fireplace. J. G. Johnson. Des. 78,210; Apr. 9.
- Fireplace. J. G. Johnson. Des. 78,355; Apr. 23.
- Fireplace. W. F. Muir. 1,740,996; Dec. 24.
- Fireplace, Air-heating. J. W. Cornelius. 1,697,635; Jan. 1.
- Fireplace, Air heating and circulating. R. W. Claybaugh and G. D. Patrick. 1,727,228; Sept. 3.
- Fireplace and heater, Combination. W. A. Brewster. 1,706,768; Mar. 26.
- Fireplace and heater, Portable open. J. M. Cesa. 1,697,225; Jan. 1.
- Fireplace form. C. C. Hall. 1,708,790; Apr. 9.
- Fireplace heater. J. S. Byrne. 1,706,142; Mar. 19.
- Fireplace heater. O. C. Myer. 1,728,214; Sept. 17.
- Fireplace heater. D. S. Wills. 1,733,846; Oct. 29.
- Fireplace, Open. A. Brannon. 1,734,849; Nov. 5.
- Fireplace screen. W. Carlson. Des. 77,935; Mar. 12.
- Fireplace structure, Portable. W. C. Johnson. 1,699,241; Jan. 15.
- Fireplace super-fire back, Adjustable. C. H. Hanawalt. 1,718,859; June 25.
- Fireplace, superheater. C. V. Woolman. 1,706,337; Mar. 19.
- Fire-pot construction. O. J. Groehn. 1,701,180; Feb. 5.
- Fireproof composition. T. Shiga. 1,720,926; July 16.
- Fireproof construction. K. R. Schuster. 1,702,706; Feb. 19.
- Fireproofing and preserving wood. F. S. Vivas. 1,702,285; Feb. 19.
- Fireproofing cellulose. F. S. Vivas. 1,738,976; Dec. 10.
- Fireproofing device. W. T. Saunders. 1,719,728; July 2.
- Fireproofing material for paints, Preparing a. F. S. Vivas. 1,707,587; Apr. 2.
- Fire-protective means for wells. R. W. Mueller. 1,703,162; Feb. 26.
- Fire-quenching foam on floating decks, Distributing. C. R. Gallagher. 1,714,015; May 21.
- Fire rack for chinaware. W. B. Louthan. 1,739,037; Dec. 10.
- Fire remover. W. H. Welch. 1,720,614; July 9.
- Fire-rescue apparatus. P. Obuchowski. 1,732,947; Oct. 22.
- Fire screen. J. J. Hennessey, jr. 1,703,622; Feb. 26.
- Fire screen. C. W. Wheelock. 1,740,486; Dec. 24.
- Fire shutter for motion-picture machines. W. A. Kosken. 1,719,377; July 2.
- Fire tongs. J. Minzoff. 1,717,396; June 18.
- Firework composition, Detonating. W. F. Gehrig. 1,712,555; May 14.
- Firework composition, Detonating. W. F. Gehrig. 1,736,743; Nov. 19.
- Fireworks. J. De Blasio. 1,726,425; Aug. 27.
- Firing apparatus, Shot-. C. C. Johnson. 1,704,131; Mar. 5.
- Firing explosives. L. M. McBride. 1,738,595; Dec. 10.
- Firing furnaces with fluent fuels, Apparatus for. J. D. Lalor. 1,731,310; Oct. 15.
- First-aid case. G. A. Meyer. 1,713,477; May 14.
- Fish bait. C. Heddon. 1,711,200; Apr. 30.
- Fish bait. J. J. Kimmich. 1,700,061; Jan. 22.
- Fish-bait box. R. Hendricks. 1,698,018; Jan. 8.
- Fish bait, Universal. F. E. Comstock. 1,702,074; Feb. 12.
- Fish baking and lifting rack. M. E. Baker. 1,718,624; June 25.
- Fish box. T. D. Collins. 1,719,591; July 2.
- Fish-cleaning machine. S. C. Anker-Holth. 1,724,587; Aug. 13.
- Fish compound. T. S. Gorton, jr. 1,713,279; May 14.
- Fish-handling apparatus. C. S. Doney. 1,718,812; June 25.
- Fish header. E. A. Gallison. 1,723,029; Aug. 6.
- Fishhook. C. S. Coleman. 1,734,612; Nov. 5.
- Fishhook. W. P. Coleman. 1,717,190; June 1.



- Fishhook. C. J. Gorman. 1,713,122; May 14.  
 Fishhook. L. Hampson. 1,706,881; Mar. 26.  
 Fishhook. J. A. Valiga. 1,730,957; Oct. 8.  
 Fishhook and weed guard, Combined. J. E. Pfueger. 1,726,502; Aug. 27.  
 Fishhook carrier and spacer. O. O. Moore. 1,720,287; July 9.  
 Fishhook-coupling device. G. W. Fey. 1,713,041; May 14.  
 Fishhook disgorging. H. A. Kramer. 1,728,864; Sept. 17.  
 Fish-landing rig. J. J. Zoppa. 1,709,298; Apr. 16.  
 Fishline, Electrical-wire. S. N. Buchanan and L. H. Church. 1,730,993; Oct. 8.  
 Fishline wringer. O. L. Koester. 1,709,436; Apr. 16.  
 Fish lure. A. Barclay. 1,708,825; Apr. 9.  
 Fish lure. R. L. Clewell. 1,701,528; Feb. 12.  
 Fish lure. E. L. Farley. 1,731,161; Oct. 8.  
 Fish lure. W. C. Miles. 1,707,407; Apr. 2.  
 Fish lure. D. P. Moore. 1,710,102; Apr. 23.  
 Fish lure. C. T. Pfueger. 1,730,333; Oct. 1.  
 Fish lure. C. C. Roberts. 1,698,735; Jan. 15.  
 Fish lure. J. P. Shannon. 1,734,883; Nov. 5.  
 Fish lure. L. F. Vereecken. 1,710,908; Apr. 30.  
 Fish lure. S. M. Wright and A. D. McGill. Des. 79,681; Oct. 22.  
 Fishplate. M. W. P. McNamara. 1,700,507; Jan. 29.  
 Fishplate. M. W. P. McNamara. 1,717,727; June 18.  
 Fish-salting apparatus. M. Zusmer. 1,734,844; Nov. 5.  
 Fish-scaling machine. A. M. English and H. A. Chase. 1,701,667; Feb. 12.  
 Fish-scaling machine. E. A. Gallison. 1,709,909; Apr. 23.  
 Fish snare. L. Clanton. 1,721,205; July 16.  
 Fish snubber. L. Scholl. 1,723,814; Aug. 6.  
 Fish stringer. R. E. Overton. 1,713,779; May 21.  
 Fish trap, Floating. C. J. Alexander. 1,711,766; May 7.  
 Fishway. F. W. Province and W. C. Barnes. 1,718,181; June 18.  
 Fishway. A. C. Ross. 1,722,596; July 30.  
 Fishing apparatus. V. Castorina. 1,710,569; Apr. 23.  
 Fishing apparatus for deep wells. R. C. Baker. 1,718,771; June 25.  
 Fishing appliance. T. T. McCurley. 1,729,646; Oct. 1.  
 Fishing bait. F. McLaughlin. 1,723,193; Aug. 6.  
 Fishing creel. J. F. Burch and A. H. Morton. 1,737,450; Nov. 26.  
 Fishing float, Electric. L. P. Bubb and J. W. Mundy. 1,707,901; Apr. 2.  
 Fishing-line signal. D. C. Derr. 1,737,921; Dec. 3.  
 Fishing-line sinkers, Mold for casting. R. C. Wade. 1,711,369; Apr. 30.  
 Fishing lure. L. A. Chapleau. 1,698,151; Jan. 8.  
 Fishing lure. P. S. Heaslip. 1,725,636; Aug. 20.  
 Fishing lure. C. H. Scharrer. 1,738,617; Dec. 10.  
 Fishing lure. J. P. Shannon. 1,740,273; Dec. 17.  
 Fishing machine. W. L. Calhoun. 1,717,835; June 18.  
 Fishing otter. J. Hansen. 1,723,236; Aug. 6.  
 Fishing pole. H. E. Schmedlen. 1,740,908; Dec. 24.  
 Fishing reel. H. S. Broadwell and S. T. Thorpe. 1,740,222; Dec. 17.  
 Fishing reel. C. T. Pfueger. 1,730,332; Oct. 1.  
 Fishing reel. C. T. Pfueger and F. B. Koehler. 1,730,331; Oct. 1.  
 Fishing reel. G. J. Qualman. 1,738,204; Dec. 3.  
 Fishing reel. N. J. Smith. 1,719,246; July 2.  
 Fishing reel. J. T. Welch. 1,715,803; June 4.  
 Fishing reel. J. T. Welch. 1,735,026; Nov. 12.  
 Fishing reel and handle drag. W. L. Adams. 1,731,208; Oct. 8.  
 Fishing-reel spool. F. M. Case. 1,697,850; Jan. 8.  
 Fishing reels, Operating mechanism for. F. M. Case. 1,697,851; Jan. 8.  
 Fishing rod. W. E. Pope. 1,731,173; Oct. 8.  
 Fishing signal. H. Rossi. 1,705,419; Mar. 12.  
 Fishing tackle. D. Newton and F. A. Holdener. 1,741,034; Dec. 24.  
 Fishing tackle. A. T. Sandbo. 1,702,417; Feb. 19.  
 Fishing tackle. H. R. Skelton. 1,741,253; Dec. 31.  
 Fishing-tackle adjustment. C. C. Roberts. 1,698,736; Jan. 15.  
 Fishing tackle, Snap for. J. F. Goshorn. 1,728,560; Sept. 17.  
 Fitting. A. A. Lindley. 1,709,624; Apr. 16.  
 Fitting, Flow-control. J. Bijur. 1,734,026-7; Oct. 29.  
 Fitting, Handhole. J. Prentice. 1,734,343; Nov. 5.  
 Fitting, Insulator. A. O. Austin. 1,728,953; Sept. 24.  
 Fitting, Strain-relief. A. H. Nero. 1,704,626; Mar. 5.  
 Fixture. M. M. Friedemann. 1,702,937; Feb. 19.  
 Fixture, Bathroom. A. Ludwig. Des. 79,092; July 30.  
 Fixture, Bathroom. H. W. Swartz. 1,742,050; Dec. 31.  
 Fixture, Bolt-controlling. E. Lazar. 1,740,182; Dec. 17.  
 Fixture, Ceiling. P. Burger. Des. 78,335; Apr. 23.  
 Fixture, Centrifugal. C. G. Hawley. 1,700,261; Jan. 29.  
 Fixture, Centrifugal. C. G. Hawley. 1,725,580; Aug. 20.  
 Fixture, Combination. J. S. Judell. 1,741,521; Dec. 31.  
 Fixture, Combined bathroom. P. E. Hostetter. 1,729,258; Sept. 24.  
 Fixture, Curtain. S. Bono. 1,723,913; Aug. 6.  
 Fixture, Curtain. G. M. Kenney. 1,723,975; Aug. 6.  
 Fixture, Curtain. O. Williams. 1,699,555; Jan. 22.  
 Fixture, Display. A. P. Thursty. 1,710,847; Apr. 30.  
 Fixture, Door-bolt. L. A. Bittorf. 1,723,007; Aug. 6.  
 Fixture, Drape, shade, and curtain. B. T. Bouma. 1,699,179; Jan. 15.  
 Fixture, Electric-lighting. E. C. White. 1,700,344; Jan. 29.  
 Fixture element. H. E. Kaden. 1,707,556; Apr. 2.  
 Fixture for bathtubs, Waste and overflow. C. J. Muend. 1,704,510; Mar. 5.  
 Fixture for holding ring gears and the like. J. E. Lovely. 1,708,228; Apr. 9.  
 Fixture for pneumatic systems, Outlet. I. H. Spencer. 1,717,471; June 18.  
 Fixture, Furniture. A. T. Kortz. 1,736,406; Nov. 19.  
 Fixture, Grotesque. W. Pels. Des. 78,363; Apr. 23.  
 Fixture hanger, Electric. S. N. Buchanan. 1,702,493; Feb. 19.  
 Fixture, Illuminating. F. Bartels. 1,722,966; July 30.  
 Fixture, Lamp. E. A. Ermoold. 1,697,170; Jan. 1.  
 Fixture, Lamp. S. A. Pettibone. Des. 77,706; Feb. 12.  
 Fixture, Lavatory. T. J. Kaufman. 1,728,492; Sept. 17.  
 Fixture, Lighting. A. J. D. Ohm. Des. 79,338; Sept. 3.  
 Fixture, Motor-vehicle robe-rail. G. Graff. Des. 79,882; Nov. 12.  
 Fixture, Positioning. A. L. Nelson. 1,713,778; May 21.  
 Fixture, Rotary built-in. G. A. Johnston. 1,736,007; Nov. 19.  
 Fixture, Shower. C. L. Russell. 1,724,147; Aug. 13.  
 Fixture, Shower-bath. M. W. Wuesthoff. 1,724,161; Aug. 13.  
 Fixture, Storm-window. S. R. Thompson. 1,701,516; Feb. 12.  
 Fixture stud for outlet boxes. H. G. Knoderer. 1,723,866; Aug. 6.  
 Fixture, Supporting. G. E. Hulse. 1,738,652; Dec. 10.  
 Fixtures, Device for hanging electrical. M. Whitney. 1,733,325; Oct. 29.  
 Fixtures for shade rollers, Apparatus for making. J. V. Washburne. 1,697,581; Jan. 1.  
 Flag. H. E. Guyn. Des. 77,547; Jan. 22.  
 Flag holder and classification light stand. I. A. Peters. 1,705,372; Mar. 12.  
 Flagpole and stand. W. Farre. 1,724,832; Aug. 13.  
 Flagstaff, Nonfouling. J. P. Carlson. 1,712,691; May 14.  
 Flag-waving device. W. J. Burgess. 1,725,250; Aug. 20.  
 Flame arrester. T. J. Calhoun. 1,735,261; Nov. 12.  
 Flame or smoke for signaling, Production of. C. W. Bonniksen and S. Barratt. 1,735,373; Nov. 12.  
 Flame singeing machine. E. Turner. 1,714,410; May 21.  
 Flame spreader. C. W. Davis. 1,737,359; Nov. 26.  
 Flange, Creased. J. A. Gray. Re17,397; Aug. 6.  
 Flange facing attachment. F. Erle. 1,707,716; Apr. 2.  
 Flange for automobile wheels. E. R. Ambrose. Des. 79,005; July 23.  
 Flange for wood rolls, Drip. C. C. Harris. 1,700,312; Jan. 29.  
 Flange for wood rolls, Drip. C. C. Harris. 1,702,435; Feb. 19.  
 Flanges, Forming annular. F. R. Klaus. 1,710,930; Apr. 30.  
 Flanging and seaming of sheet-metal receptacles. C. J. Rhodes. 1,713,625; May 21.  
 Flanging apparatus. J. Huber. 1,710,165; Apr. 23.  
 Flanging machine. Metal-plate. V. C. Norquist. 1,733,385; Oct. 29.  
 Flank spreader. T. O'Brien. 1,721,131; July 16.  
 Flap-turning mechanism. J. G. Swab. 1,713,243; May 14.  
 Flare. W. L. Shively. 1,727,360; Sept. 10.  
 Flares, Producing intermittent. J. E. Gibbs. 1,730,815; Oct. 8.  
 Flash. F. B. Reilly. Des. 78,531; May 14.  
 Flash boiler, High or low pressure. E. J. Lampert. 1,739,401; Dec. 10.  
 Flash light. G. H. Barber and A. Schuch. 1,711,667; May 7.  
 Flash light. J. H. Kuechenmeister. 1,700,768; Feb. 5.  
 Flash light. P. R. Puckett. 1,731,438; Oct. 15.  
 Flash light. F. W. Rahm. 1,703,749; Feb. 26.  
 Flash light. J. L. Shannon. 1,738,122; Dec. 3.  
 Flash light. M. M. Stearns. 1,699,927; Jan. 22.  
 Flash light and alarm, Combined. F. H. Hedberg. 1,738,243; Dec. 3.  
 Flash light and telescope, Combination. E. H. Pitney. 1,740,314; Dec. 17.  
 Flash light and umbrella, Combined. F. D. Malum. 1,720,228; July 9.  
 Flash-light attachments for firearms. P. P. Basterreix. 1,702,101; Feb. 12.  
 Flash-reducing agent for smokeless powders. W. T. Ingraham. 1,731,378; Oct. 15.  
 Flash-light holder. S. Kaplan. 1,717,386; June 18.  
 Flashlight, Portable. M. E. Buchholz. 1,699,344; Jan. 15.  
 Flasher or magnetic actuator for switches and the like. H. J. Otto. 1,710,945; Apr. 30.  
 Flasher plug. A. W. Franklin. 1,720,470; July 9.  
 Flashing. J. E. Davison. 1,699,181; Jan. 15.  
 Flashing. J. A. Dogendorf. 1,713,269; May 14.  
 Flashing. G. T. Whitaker. 1,736,237; Nov. 19.  
 Flashing for walls and chimneys. L. Vallas. 1,740,753; Dec. 24.  
 Flashing signal, Highway. A. V. Conover. 1,719,592; July 2.  
 Flask: See—  
     Molding flask.  
     Molder's flask.  
 Flask clamp, Dental. L. B. Andresen. 1,724,691; Aug. 13.  
 Flask-filling machine for use in foundries. R. J. Barnes. 1,721,063; July 16.  
 Flask for multiple molding. J. T. Ramsden. 1,736,364; Nov. 19.  
 Flask press, Dental. C. J. Reynolds. 1,714,189; May 21.



- Flasks, Handling and mechanically ramming. J. R. McWane. 1,713,770; May 21.
- Flatiron. O. Graetzer. 1,728,269; Sept. 17.
- Flatiron, Automatic electric. M. C. Bersted. 1,707,042; Mar. 26.
- Flatiron, Electric. D. Zorgo. 1,706,834; Mar. 28.
- Flatiron stand. F. Kuhn and L. H. Thomas. 1,725,871; Aug. 27.
- Flatiron, Suspended swinging. J. Malboeuf. 1,712,150; May 7.
- Flavanthrone, Preparing. W. Smith and J. Thomas. 1,714,249; May 21.
- Flavoring and moistening substance, Cigar and tobacco. J. C. Bender. 1,699,090; Jan. 15.
- Flax, hemp, and other fibers, Method of and a machine for cleaning. G. A. Lowry. 1,716,589; June 11.
- Flesh-reducing machine. C. D. McDonald. 1,701,956; Feb. 12.
- Fleshing and grading machine. L. A. Cogswell. 1,700,978; Feb. 5.
- Flexible coupling. R. G. Anderson. 1,738,416; Dec. 3.
- Flexible coupling. H. W. Bell. 1,697,453; Jan. 1.
- Flexible coupling. H. W. Bell. 1,701,061; Feb. 5.
- Flexible coupling. W. H. Lindsay. 1,705,984; Mar. 19.
- Flexible coupling. M. W. Morgan. 1,740,617; Dec. 24.
- Flexible coupling. R. M. Norstrom. 1,723,655; Aug. 6.
- Flexible coupling, Bushed. R. A. Smith. 1,700,102; Jan. 22.
- Flexible coupling, Hydraulic. C. E. Nelson. 1,734,043; Nov. 5.
- Flexible coupling, Power-transmitting. H. N. Schramm. 1,734,598; Nov. 5.
- Flexible drive. W. C. Gray. 1,734,427; Nov. 5.
- Flexible glass. R. Kondo. 1,729,273; Sept. 24.
- Flexible joint. G. Flintermann. 1,732,648; Oct. 22.
- Flipper for straight-side beads. J. C. Jennejohn. Re-17,199; Jan. 22.
- Float. E. E. Bartels. 1,701,967; Feb. 12.
- Float. H. W. Bradley. 1,700,153; Jan. 29.
- Float. C. E. Good. 1,726,736; Sept. 3.
- Float and making same. J. R. Brown and J. C. Mullinnix. 1,738,689; Dec. 10.
- Float and the like. M. Chenchick. 1,725,977; Aug. 27.
- Float ball. H. J. Kast. 1,710,646; Apr. 23.
- Float, Bathing-beach. S. A. Kornsweet. 1,720,081; July 9.
- Float-controlled device. F. C. Reeder. 1,707,926; Apr. 2.
- Float device, Gravity tank-. C. E. Potter. 1,725,208; Aug. 20.
- Float drill pipe. C. E. Wood. 1,712,803; May 14.
- Float for hydroplanes. J. Van de Putte. 1,725,890; Aug. 27.
- Float for water cisterns or the like. J. W. Thompson and G. P. Cooper. 1,727,525; Sept. 10.
- Float, Hollow. M. Shank. 1,714,733; May 28.
- Float, Impervious seaplane. C. A. Van Dusen. 1,740,846; Dec. 24.
- Float, Landing. E. D. Vaughan. 1,713,457; May 14.
- Float mechanism for cooling tanks. H. H. Nesbitt. 1,720,919; July 16.
- Float, Sectional. H. W. Long. 1,725,874; Aug. 27.
- Float switch. G. J. Papashvili. 1,719,078; July 2.
- Floating coupling. C. C. Swartz. 1,721,060; July 16.
- Floating deck, gas-tight type. A. M. Griffin. 1,716,491; June 11.
- Floating head for tube nests. C. F. Braun. 1,737,564; Dec. 3.
- Floating structure. W. T. Donnelly. 1,701,874; Feb. 12.
- Flock cutter. L. E. Perry. 1,721,086; July 16.
- Floodlight. H. P. Hollnagel. 1,718,560; June 25.
- Floodlight. O. Werner. 1,706,759; Mar. 26.
- Floor. H. M. Knight. 1,697,070; Jan. 1.
- Floor and ceiling construction. H. E. White. 1,706,945; Mar. 26.
- Floor and ceiling plate. L. R. Zifferer. 1,735,029; Nov. 12.
- Floor box. H. G. Baxter. 1,705,707; Mar. 19.
- Floor, Composite. W. B. Jaspert. 1,737,589; Dec. 3.
- Floor construction. C. E. Crozier. 1,700,609; Jan. 29.
- Floor construction. H. W. Reel. 1,699,477; Jan. 15.
- Floor construction. F. Severud and B. Myers. 1,732,079; Oct. 15.
- Floor construction and producing the same. R. Farnham and B. C. Collier. 1,728,265; Sept. 17.
- Floor construction, Concrete. J. Gross. 1,705,916; Mar. 19.
- Floor construction, Exhaust-box-. A. R. Thompson. 1,739,808; Dec. 17.
- Floor construction, Fire-resisting. W. F. Zabriskie. 1,711,163; Apr. 30.
- Floor construction, Flat-arch concrete. R. K. Schutt. 1,702,749; Feb. 19.
- Floor construction, Reinforced. K. Schuster. 1,707,026; Mar. 26.
- Floor construction, Vehicle. D. W. Pye. 1,736,548; Nov. 19.
- Floor covering. R. G. Jackson. 1,729,833; Oct. 1.
- Floor covering and preparing the same. R. G. Jackson. 1,729,834; Oct. 1.
- Floor covering, Decorated. R. G. Jackson. 1,729,832; Oct. 1.
- Floor covering, Fiber. J. M. Taylor. 1,710,595; Apr. 23.
- Floor covering, Making mottled. N. L. Campbell. 1,728,101; Sept. 10.
- Floor covering, Smooth-surface crepe. R. G. Jackson. 1,729,835; Oct. 1.
- Floor covering, Waterproof. C. S. Cooley. 1,720,780; July 16.
- Floor coverings, Continuous manufacture of. A. Lannoye. 1,738,591; Dec. 10.
- Floor for baby cribs. F. Reinosky. 1,711,127; Apr. 30.
- Floor furnace. E. E. Leach. 1,725,988; Aug. 27.
- Floor joist, Metallic. H. K. Baker. 1,698,081; Jan. 8.
- Floor mat. H. W. Hollenbeck. Des. 77,960; Mar. 12.
- Floor plate. J. E. Jones. 1,738,829; Dec. 10.
- Floor plate. W. N. Vance. 1,741,487; Dec. 31.
- Floor plate and steering-column support. F. A. Whitten. 1,707,747; Apr. 2.
- Floor, Portable. C. A. Duke. 1,710,610; Apr. 23.
- Floor protector, Porch-. I. H. Taylor. 1,737,621; Dec. 3.
- Floor sander. R. A. Ponselle. 1,736,546; Nov. 19.
- Floor-sanding machine. R. E. De Walt. 1,738,873; Dec. 10.
- Floor sections, Separating and defining strip for terrazzo. M. A. Boet. 1,732,253; Oct. 22.
- Floor strip, Interlocking. P. Galassi. 1,697,683; Jan. 1.
- Floor, Structural. R. V. Yeager. 1,734,358-9; Nov. 5.
- Floor-surfacing machine. G. W. Minuth. 1,698,554; Jan. 8.
- Floor-surfacing machine. J. W. Tilley. 1,699,638; Jan. 22.
- Floor-treating apparatus. H. C. Dornhecker. 1,715,058; May 28.
- Floor-treating machine. F. E. Wadham. 1,728,520; Sept. 17.
- Floor vent. A. J. Filkins. 1,711,523; May 7.
- Floor ventilator. M. Feiber. 1,704,661; Mar. 5.
- Floor waxer. A. P. Tallmadge. 1,712,681; May 14.
- Floor waxer and polisher. H. C. Dornhecker. 1,715,059-60; May 28.
- Floor-waxing device. A. Lipton. 1,726,399; Aug. 27.
- Flooring and the like. A. R. Smith. 1,714,738; May 28.
- Flooring, Manufacture of rubber composition. J. B. Losey and W. R. Stone. 1,703,312; Feb. 26.
- Flooring or grating, Metallic. G. B. Williams and W. J. H. Porter. 1,734,660; Nov. 5.
- Flooring strip, Composite. P. Galassi. 1,718,041; June 18.
- Floorings, Laying concrete. S. H. Calkins. 1,725,731; Aug. 20.
- Floors and driveways, Eradicating oil and grease from. A. E. Plank. 1,723,521; Aug. 6.
- Floral rack. J. A. Heinz. Re17,487-8; Nov. 12.
- Floral-wreath pin. C. P. Wilson. 1,708,005; Apr. 9.
- Flotation agent and producing same. B. R. Tunison. 1,709,447; Apr. 16.
- Flotation agents, preparing them, and using the same. T. H. Donahue and F. F. Frick. 1,711,087; Apr. 30.
- Flotation concentration. S. P. Lowe. 1,728,352; Sept. 17.
- Flotation concentrator. A. W. Johnson. 1,702,443; Feb. 19.
- Flotation machine. S. E. Meyer. 1,722,705; July 30.
- Flotation process. H. T. Koenig, O. A. Fischer, E. F. Haffey, and A. B. Clampitt. 1,741,028; Dec. 24.
- Flotation process. S. P. Lowe. 1,728,353; Sept. 17.
- Flotation process. S. P. Lowe and H. T. Koenig. 1,741,030; Dec. 24.
- Flotation process. S. P. Warren. 1,735,190; Nov. 12.
- Flotation process. H. R. Wilson. 1,733,570; Oct. 29.
- Flotation screen. H. B. Houston. 1,731,779; Oct. 15.
- Flour-bag rack. J. C. Pedersen and G. P. Eielsen. 1,699,199; Jan. 15.
- Flour, Making. E. M. Kinslow. 1,728,184; Sept. 17.
- Flour, Manufacture of. E. A. Fisher and C. R. Jones. 1,727,429; Sept. 10.
- Flour bean, Automatic. W. N. Craddock. 1,699,227; Jan. 15.
- Flour box, Stock-spreading. E. H. Streeter. 1,712,852; May 14.
- Flour control, Apparatus for. L. De Florez. 1,721,898; July 23.
- Flour control, Apparatus for. L. De Florez. 1,725,783; Aug. 27.
- Flour-control fitting. J. Bijur. 1,732,828; Oct. 22.
- Flour control, Method and apparatus for. L. De Florez. 1,725,782; Aug. 27.
- Flour-control system. C. W. Lerner. 1,704,392; Mar. 5.
- Flour-detecting system. C. H. Ehlers. 1,737,835; Dec. 3.
- Flour device for oil wells. N. B. Ragland. 1,739,041; Dec. 10.
- Flour meter. H. H. Mapelsden. 1,698,314; Jan. 8.
- Flour meter, Reversible. F. N. Connet. 1,700,027; Jan. 22.
- Flour regulator. P. G. Bulkley. 1,727,744; Sept. 10.
- Flour and making same, Artificial. S. H. Rogers. 1,730,628; Oct. 8.
- Flower, Artificial. H. E. Adams. 1,731,089; Oct. 8.
- Flower pin, Ornamental. C. V. Keethes. 1,710,627; Apr. 23.
- Flower stand. I. G. Scott and M. C. Fox. Des. 79,484; Sept. 24.
- Flowerpot. B. F. Hale. 1,707,551; Apr. 2.
- Flowerpot. W. R. Little. 1,707,559; Apr. 2.
- Flowerpot construction. J. Kelso. 1,710,878; Apr. 30.
- Flowers and making the same, Artificial. D. Butcher. 1,732,739; Oct. 22.
- Flowers, Apparatus for prolonging the life of cut. G. B. and M. M. Hunt. 1,739,462; Dec. 10.
- Flue and back-draft hood for gas ranges. J. A. McCarthy. 1,705,937; Mar. 19.
- Flue, Boiler-door air. M. Owen. 1,733,901; Oct. 29.
- Flue-bulging machine. F. W. Strachauer and F. B. Gillett. 1,740,792; Dec. 24.



- Flue cap. J. A. McCarthy. Des. 78,475; May 7.  
 Flue cap for gas stoves. J. A. McCarthy. 1,737,469; Nov. 26.  
 Flue cover and deflector. J. T. Bayliss. 1,706,389; Mar. 26.  
 Flue for cotton gins, Valved. A. S. Helm. 1,705,862; Mar. 12.  
 Flue-gas-recirculating system for cracking-still operations. H. A. Atwater. 1,709,764; Apr. 16.  
 Flue heater, Multiple. T. A. Sala. 1,703,459; Feb. 26.  
 Flue polisher and cutting-off machine, Combined. J. B. Weaver Irwin. 1,697,566; Jan. 1.  
 Flue sander. G. Altimari and J. A. Campbell. Re17,506; Nov. 26.  
 Flue stop. E. H. Raines. 1,732,858; Oct. 22.  
 Flue-wall facing. W. N. Blackburn. 1,712,685; May 14.  
 Fluid-actuated engine. E. J. Armstrong. 1,717,599; June 18.  
 Fluid-actuated engine. C. B. Weston. 1,717,591; June 18.  
 Fluid-applying machine. E. Erickson. 1,710,727; Apr. 30.  
 Fluid-circulating means. J. E. Burkhardt. 1,717,088; June 11.  
 Fluid cleaner, Centrifugal. C. H. Heist. 1,721,908; July 23.  
 Fluid, Cleaning and polishing. E. Haughey. 1,730,654; Oct. 8.  
 Fluid composition. A. T. K. Tseng. 1,698,973; Jan. 15.  
 Fluid compressor. G. Hilger. 1,718,558; June 25.  
 Fluid-containing cup. C. S. Crickmer. 1,735,264; Nov. 12.  
 Fluid-control device. C. S. Johann. 1,704,944; Mar. 12.  
 Fluid-controlling device, Automatic. R. J. Hill. 1,699,143; Jan. 15.  
 Fluid-controlling mechanism. E. S. Rush. 1,699,070; Jan. 22.  
 Fluid-controlling system. G. A. Doughty and H. A. Johnston. 1,739,787; Dec. 17.  
 Fluid-conveying system. R. J. McCarty, jr. 1,726,625; Sept. 3.  
 Fluid cooler. C. C. Spreen. 1,733,760; Oct. 29.  
 Fluid-displacing apparatus. A. C. Durdin, jr. 1,699,328; Jan. 15.  
 Fluid-distributing apparatus. E. M. Kling. 1,722,985; July 30.  
 Fluid distributor. J. C. MacIntosh. 1,713,046; May 14.  
 Fluid distributor. L. H. V. Reynolds and W. B. Ensign. 1,715,245; May 28.  
 Fluid elevator. D. B. Dennis and C. Wilson. 1,730,062; Oct. 1.  
 Fluid feeder, Automatic. L. D. Stoner. 1,728,737; Sept. 17.  
 Fluid for refrigeration, Working. A. A. Kucher. 1,735,170; Nov. 12.  
 Fluid friction, Overcoming. A. Boerner. 1,726,882; Sept. 3.  
 Fluid generator, Compressed. M. R. Moon. 1,713,709; May 21.  
 Fluid gun. A. B. Cumner. 1,734,368; Nov. 5.  
 Fluid heater. E. Jowett. 1,728,733; Sept. 17.  
 Fluid heater, Electrically-operated. F. Wuthrich. 1,726,789; Sept. 3.  
 Fluid heater, Thermostatically-controlled. V. G. Vaughan. 1,715,687; June 4.  
 Fluid heating and vaporizing apparatus. R. A. Carleton. 1,727,585; Sept. 10.  
 Fluid heating furnace. H. B. Cannon. 1,701,837-8; Feb. 12.  
 Fluid-level indicator. T. Veitch. 1,734,185; Nov. 5.  
 Fluid lift. C. W. Foster. 1,730,321; Oct. 1.  
 Fluid meter. H. J. Buchanan-Wollaston. 1,730,404; Oct. 8.  
 Fluid meter. W. H. G. Furnivall. D. B. McLaren, and E. J. Laschinger. 1,712,760-1; May 14.  
 Fluid meter. J. L. Hodgson. 1,707,160; Mar. 26.  
 Fluid meter. E. B. Nichols. 1,709,147; Apr. 16.  
 Fluid meter. E. J. Pell. 1,715,946; June 4.  
 Fluid motor. F. H. Parker and K. H. Kolpien. 1,740,710; Dec. 24.  
 Fluid motor, Pressure. E. G. Gartin. 1,737,456; Nov. 26.  
 Fluid-mixing chamber. G. G. Bastian. 1,716,755; June 11.  
 Fluid-operated brake. M. Longhead. 1,732,309; Oct. 22.  
 Fluid-operated jack. T. W. Pedersen. 1,720,434; July 9.  
 Fluid-pressure-actuating mechanism. H. F. Franklin. 1,718,457; June 25.  
 Fluid pressure bag. G. W. Mann. 1,699,600; Jan. 22.  
 Fluid-pressure brake. J. M. Dapron. 1,727,396; Sept. 10.  
 Fluid-pressure brake. W. E. Dean. 1,723,137; Aug. 6.  
 Fluid-pressure brake. C. C. Farmer. 1,707,259; Apr. 2.  
 Fluid-pressure brake. C. C. Farmer. 1,711,779; May 7.  
 Fluid-pressure brake. C. C. Farmer. 1,714,010-11; May 21.  
 Fluid-pressure brake. C. C. Farmer. 1,720,267; July 9.  
 Fluid-pressure brake. C. C. Farmer and T. H. Thomas. Re17,509; Dec. 3.  
 Fluid-pressure brake. E. Fetter. 1,711,675; May 7.  
 Fluid-pressure brake. J. Guillemin-Tarayre. 1,720,249; July 9.  
 Fluid-pressure brake. J. E. Johnson. 1,722,633; July 30.  
 Fluid-pressure brake. J. C. McCune. 1,703,892-3; Mar. 5.  
 Fluid-pressure brake. F. H. Parke. 1,703,896; Mar. 5.  
 Fluid-pressure brake. T. H. Thomas. 1,707,288; Apr. 2.  
 Fluid-pressure brake. T. H. Thomas. 1,720,251; July 9.  
 Fluid-pressure brake. T. H. Thomas and C. A. Nelson. 1,698,007; Jan. 8.  
 Fluid-pressure brake. T. H. Thomas and C. A. Nelson. 1,703,908; Mar. 5.  
 Fluid-pressure brake. T. H. Thomas and C. A. Nelson. 1,707,289; Apr. 2.  
 Fluid-pressure brake. E. F. Wagner. 1,707,241; Apr. 2.  
 Fluid-pressure brake. H. J. Winter. 1,727,385; Sept. 10.  
 Fluid-pressure controlling and reversing mechanism for grinding machines and the like. A. P. Burns. 1,714,545; May 28.  
 Fluid - pressure - developing system. R. Marsland. 1,728,277; Sept. 17.  
 Fluid-pressure engine. W. E. Baker and R. C. Aland. 1,741,141; Dec. 31.  
 Fluid-pressure motor. J. L. Bartelson. 1,740,676; Dec. 24.  
 Fluid-pressure motor. E. G. Gartin. 1,740,688; Dec. 24.  
 Fluid-pressure motor. E. J. and R. H. Moore. 1,735,176; Nov. 12.  
 Fluid-pressure motor. T. R. E. Rundqvist. 1,740,713-14; Dec. 24.  
 Fluid-pressure-operated motor. R. E. Boschert. 1,737,563; Dec. 3.  
 Fluid-pressure press. W. B. Updegraff. 1,721,421; July 16.  
 Fluid-pressure regulator. J. C. Groble, J. Pollock, and W. C. Groble. 1,732,012; Oct. 15.  
 Fluid-pressure regulator. J. L. Kimball. 1,707,955; Apr. 2.  
 Fluid-pressure regulator. L. W. Stettner. 1,739,926; Dec. 17.  
 Fluid-pressure regulator, Two-stage. C. L. Bastian. 1,731,519; Oct. 15.  
 Fluid-projecting apparatus. L. M. McBridge. 1,740,471; Dec. 24.  
 Fluid-projecting apparatus. F. C. Phillips. 1,730,684; Oct. 8.  
 Fluid propulsion by vibratory diaphragms, Apparatus for. H. C. Hayes. 1,729,579; Sept. 24.  
 Fluid seal for intermittently-registering conduits. G. E. A. Hallett. 1,736,261; Nov. 19.  
 Fluid segregator. D. Samiran. 1,700,811; Feb. 5.  
 Fluid separator. G. D. Bradshaw. 1,708,650-4; Apr. 9.  
 Fluid separator. G. D. Bradshaw. 1,708,656; Apr. 9.  
 Fluid stabilizer. H. B. Daviss. 1,713,170; May 14.  
 Fluid-storing material. F. G. Keyes. 1,705,482-4; Mar. 19.  
 Fluid system. G. G. Earl. 1,704,966; Mar. 12.  
 Fluid-tight joint. E. C. McKenzie-Martyn. 1,715,854; June 4.  
 Fluid-translating system. H. F. Schmidt. 1,715,011; May 28.  
 Fluid trap. A. L. Penniman, jr. 1,703,166; Feb. 26.  
 Fluid-treatment medical apparatus. G. W. Elmwall. 1,722,282; July 30.  
 Fluids, Apparatus for handling. F. C. Farnsworth. 1,708,471; Apr. 9.  
 Fluids, Conditioning. U. O. Hutton. 1,740,462; Dec. 24.  
 Fluids, Conveying. A. R. Smith. 1,714,893; May 23.  
 Fluids from oil wells, Apparatus for raising. L. M. Robinson. 1,732,617; Oct. 22.  
 Fluids, Method of and apparatus for ascertaining the proportion of constituents of. H. N. Packard and E. X. Schmidt. 1,700,852; Feb. 5.  
 Fluids, Method of and apparatus for compressing and expanding elastic. K. E. Stuart. 1,735,477; Nov. 12.  
 Flume, Mud. W. L. Wright and G. W. Warner. 1,706,432; Mar. 26.  
 Flume-rack cleaner. R. D. Winger. 1,708,817; Apr. 9.  
 Fluorescence to oil, Imparting. J. C. Black, W. D. Rial, and J. R. McConnell. 1,708,563; Apr. 9.  
 Fluorescent product, Making of. J. C. Black, W. D. Rial, and J. R. McConnell. 1,708,602; Apr. 9.  
 Fluorine, Preparing. J. H. de Boer. 1,728,230; Sept. 17.  
 Flush receptacle, Duplex. H. J. Morey. 1,729,678; Oct. 1.  
 Flush tank. T. H. Chadwick. 1,722,200; July 23.  
 Flush tank. H. M. Lewis. 1,720,558; July 9.  
 Flusher, Automatic sewer. C. R. Lion. 1,702,944; Feb. 19.  
 Flushing apparatus. L. E. Cohoon. 1,734,472; Nov. 5.  
 Flushing apparatus. W. A. Van Deussen. 1,699,824; Jan. 22.  
 Flushing apparatus for water-closets. R. A. Brooks. 1,730,187; Oct. 1.  
 Flushing water-closet pans, Device for. A. M. Medrano and G. Chiossone. 1,739,408; Dec. 10.  
 Fluting machine. C. A. Frahm. Re17,415; Aug. 20.  
 Flux, Solder. J. D. Raymond. 1,709,542; Apr. 16.  
 Fluxer. G. Komarek. 1,740,657; Dec. 24.  
 Fly and insect trap, Sanitary. W. E. D. Rummel. 1,703,322; Feb. 26.  
 Fly and tackle case, Fisherman's. A. E. Borel. 1,736,337; Nov. 19.  
 Fly chaser. K. Tjossem. 1,728,842; Sept. 17.  
 Fly escape. C. W. Hickman. 1,701,498; Feb. 12.  
 Fly-exit screen. J. Marsden. 1,699,402; Jan. 15.  
 Fly frame. F. H. Martin. 1,717,343; June 11.  
 Fly net, Movable. H. F. Davis. 1,703,660; Feb. 26.  
 Fly screen. A. C. and H. E. Schneider. 1,722,423; July 30.  
 Fly swatter. E. P. Harley. 1,727,768; Sept. 10.  
 Flytrap. W. Henning. 1,704,744; Mar. 12.  
 Flytrap. C. A. Johnson. 1,717,708; June 18.  
 Flytrap. A. Strand. 1,715,958; June 4.  
 Flywheel. E. L. Day. 1,703,991; Mar. 5.  
 Flywheel. G. W. Pangburn. 1,706,678; Mar. 26.



- Flywheel and centrifugal clutching mechanism therefor. Multiple. J. O. Carrey. 1,724,126; Aug. 13.
- Flywheel, Vibration-damping. H. Walker. 1,701,518; Feb. 12.
- Flying machine. S. C. Anker-Holth. 1,731,494; Oct. 15.
- Flying machine. P. Arndt. 1,697,626; Jan. 1.
- Flying machine. M. Bernstein. 1,726,208; Aug. 27.
- Flying machine. W. T. Davis. 1,702,109; Feb. 12.
- Flying machine. V. Ehmig. 1,719,048; July 2.
- Flying machine. P. Escobedo. 1,737,963; Dec. 3.
- Flying machine. T. M. Finley. 1,728,404; Sept. 17.
- Flying machine. S. C. Gins. 1,698,626; Jan. 8.
- Flying machine. A. Haworth. 1,703,621; Feb. 26.
- Flying machine. A. Herbert. 1,704,831; Mar. 12.
- Flying machine. G. D. Higgins. 1,735,115; Nov. 12.
- Flying machine. V. Isacco. 1,697,009; Jan. 1.
- Flying machine. D. K. Jette. 1,714,170; May 21.
- Flying machine. H. H. D. Klinker. 1,738,010; Dec. 3.
- Flying machine. L. Lombardi. 1,739,402; Dec. 10.
- Flying machine. P. J. Lucich. 1,728,557; Sept. 17.
- Flying machine. A. C. Mather. 1,720,846; July 16.
- Flying machine. H. O. Norman. 1,716,734; June 11.
- Flying machine. E. Rogers. 1,730,627; Oct. 8.
- Flying machine. T. Sorensen. 1,724,226; Aug. 13.
- Flying machine. H. Steigner. 1,733,033; Oct. 22.
- Flying machine. W. Stelzer. 1,739,630; Dec. 17.
- Flying machine. J. B. Strauss. 1,727,450; Sept. 10.
- Flying machine. L. J. Tetlow. 1,718,891; June 25.
- Flying machine. J. Von Walldy. 1,704,449; Mar. 5.
- Flying machine. G. W. Wilkin. 1,720,939; July 16.
- Flying machine, Amphibian. G. Ferruzzi. 1,724,755; Aug. 13.
- Flying machine, Heavier-than-air. H. G. Hooper. 1,721,450; July 16.
- Flying machine, Helicopter-type. F. Mladinich. 1,705,489; Mar. 19.
- Flying machine of the aeroplane type. M. B. Pupp. 1,700,107; Jan. 22.
- Flying machines, Assembling and repairing. H. Junkers. 1,740,021; Dec. 17.
- Flying machines, Start of. H. Junkers. 1,703,488; Feb. 26.
- Flying machines with flapper wings. K. Cerny. 1,726,342; Aug. 27.
- Foam-destroying device. M. Kristofferson. 1,699,196; Jan. 15.
- Foam with plastic materials, Method of and apparatus for mixing. E. M. Rickard and J. A. Rice. 1,716,932; June 11.
- Fob. J. J. Kleschka. 1,715,238; May 28.
- Fob, brooch, and the like, Watch. W. C. Johnston. 1,722,423; July 30.
- Focal position of lamps, Apparatus for determining. S. F. Arbuckle. 1,706,095; Mar. 19.
- Focusing apparatus, Lamp-. S. F. Arbuckle, and C. P. Brockway. 1,706,096; Mar. 19.
- Focusing device. E. A. Everett. 1,714,712; May 28.
- Focusing device and projection apparatus, Auxiliary. R. M. Hill. 1,709,017; Apr. 16.
- Focusing device for automobile lamps. T. J. Corcoran and W. M. Matteoli. 1,707,254; Apr. 2.
- Focusing device for semaphore lamps. S. M. Day. 1,713,490; May 14.
- Focusing mechanism. S. M. Hershberg. 1,726,350; Aug. 27.
- Focusing scale for photographic cameras. P. W. Tierney. 1,730,956; Oct. 8.
- Focusing shutter. R. M. Hill. 1,713,338; May 14.
- Foil for ornamenting and printing purposes. C. H. von Hoessle and W. Richter. 1,707,828; Apr. 2.
- Foils, Making metal. J. R. Cain. 1,698,472; Jan. 8.
- Foldable bag. M. Steckler. 1,719,455; July 2.
- Foldable box. H. S. Scholes. 1,726,682; Sept. 3.
- Foldable chair. J. J. Schmitt. 1,736,631; Nov. 19.
- Foldable comb. A. D. Kottman. 1,727,069; Sept. 3.
- Foldable handle. G. A. Countryman. 1,715,902; June 4.
- Foldable seat. C. R. Weymouth. 1,723,831; Aug. 6.
- Foldable table. A. Goldberg. 1,713,177; May 14.
- Foldable table. G. A. Lewis. 1,741,576; Dec. 31.
- Foldable table. G. B. Schmitt. 1,702,952; Feb. 19.
- Folded blank box. C. D. Hughes. 1,726,108; Aug. 27.
- Folded box. C. S. Andrews. 1,698,699; Jan. 8.
- Folder and prearranged bacon parcel, Paper. C. W. Carter. 1,711,372; Apr. 30.
- Folder and press, and foundation fastener for honeycombs, Combined section. R. L. Coons. 1,705,327; Mar. 12.
- Folder, Flat-wash. W. W. Jones and A. C. Jauss. 1,697,010; Jan. 1.
- Folder unit, Adjustable. H. C. Jordhoy. 1,739,398; Dec. 10.
- Folding apparatus. F. Massa. 1,707,443; Apr. 2.
- Folding apparatus, Paper-. J. Acton. 1,698,665; Jan. 8.
- Folding attachment, Positive. L. F. Hagemann. 1,698,401; Jan. 2.
- Folding bed-bottom fabric. F. A. Adkins and N. S. Harter. 1,717,953; June 18.
- Folding bed-bottom fabric, Automatically. N. S. Harter. 1,718,203; June 18.
- Folding blank box. H. E. Kondolf. 1,703,042; Feb. 19.
- Folding box. W. A. Becker. 1,724,172; Aug. 13.
- Folding box. M. D. Kopple. 1,727,435; Sept. 10.
- Folding box. E. H. Lupton. 1,699,978; Jan. 22.
- Folding box. E. H. Lupton. 1,718,204; Jan. 18.
- Folding box. D. Nelson. 1,739,853; Dec. 17.
- Folding box. E. Prati. 1,717,733; June 18.
- Folding box. M. Salomon. 1,705,313; Mar. 12.
- Folding box. G. D. Sullivan. 1,714,471; May 21.
- Folding box. A. J. Tanner. 1,731,877; Oct. 15.
- Folding box. S. G. Wise. 1,720,506; July 9.
- Folding case. A. H. Metcalf. 1,717,801; June 18.
- Folding chair. J. L. Cable. 1,700,022; Jan. 22.
- Folding chair. J. L. Cable. 1,730,916; Oct. 8.
- Folding chair. D. J. Cain. 1,729,205; Sept. 24.
- Folding chair. W. E. Charin. 1,740,806; Dec. 24.
- Folding chair. A. B. Clark. 1,715,118; May 28.
- Folding chair. F. P. Danzer. Des. 78,731; June 18.
- Folding chair. A. S. Hageman. 1,698,697-8; Jan. 8.
- Folding chair. W. E. Kidder. 1,707,018; Mar. 26.
- Folding chair. W. E. Kidder. 1,739,552; Dec. 17.
- Folding chair. F. C. Mason. 1,716,526; June 11.
- Folding chair. J. Q. Newell and F. Redpath. 1,721,164; July 16.
- Folding chair. A. Provisor. 1,726,856; Sept. 3.
- Folding chair. W. C. Rastetter. 1,707,769; Apr. 2.
- Folding chair. W. C. Rastetter. 1,727,115; Sept. 3.
- Folding chair. M. Schlossberg and D. G. Pasternack. 1,699,452; Jan. 15.
- Folding chair. F. E. Schulte. 1,698,243; Jan. 8.
- Folding chair. J. Silverman. 1,704,712; Mar. 12.
- Folding chair. J. Silverman. 1,721,138; July 16.
- Folding chair. J. Silverman. 1,736,804; Nov. 26.
- Folding chair. F. Simmons. 1,714,323; May 21.
- Folding chair. B. M. Stannard. Des. 78,796; June 18.
- Folding chair. W. H. Tomlinson. 1,729,141; Sept. 24.
- Folding chair. A. Wagner. 1,724,055; Aug. 13.
- Folding chair, Portable. R. C. Bendixen. 1,708,045; Apr. 9.
- Folding comb. E. R. Person. 1,705,644; Mar. 19.
- Folding device. G. Spiess. 1,725,309; Aug. 20.
- Folding frame. S. A. Haboush. 1,701,206; Feb. 5.
- Folding machine. A. A. Cashman. 1,740,454; Dec. 24.
- Folding machine. F. M. Courser. 1,702,379; Feb. 19.
- Folding machine. W. L. Dixon. 1,705,660; Mar. 19.
- Folding machine. W. L. Dixon. 1,717,373; June 18.
- Folding machine. F. A. Ericson. 1,719,325; July 2.
- Folding machine. P. R. Glass. 1,702,598; Feb. 19.
- Folding machine. L. J. Lambert. 1,740,411; Dec. 17.
- Folding machine. C. W. Newton. 1,725,929; Aug. 27.
- Folding machine. A. Olson. 1,710,029; Apr. 23.
- Folding machine. E. D. Rader. 1,709,282; Apr. 16.
- Folding machine. A. R. Ridderstrom. 1,703,544; Feb. 26.
- Folding machine. A. R. Ridderstrom. 1,733,362; Oct. 29.
- Folding machine. A. R. Ridderstrom. 1,740,410; Dec. 17.
- Folding machine. A. R. Ridderstrom. 1,740,412-13; Dec. 17.
- Folding machine. G. A. Shaffer and F. H. Wirtz. 1,707,579; Apr. 2.
- Folding machine. R. J. Waterworth. 1,716,936; June 11.
- Folding machine and method. L. J. Lambert. 1,740,407; Dec. 17.
- Folding machine and method. A. R. Ridderstrom. 1,725,159; Aug. 20.
- Folding machine and method. A. R. Ridderstrom. 1,740,408-9; Dec. 17.
- Folding machine and method. A. R. Ridderstrom. 1,740,414; Dec. 17.
- Folding machine, Article-. S. J. Campbell. 1,731,292; Oct. 15.
- Folding machine, Collar-. W. J. Beattie. 1,698,469; Jan. 8.
- Folding machine for tabloid newspapers. O. C. Roosen. 1,739,328; Dec. 10.
- Folding mechanism. W. Evensen. 1,701,177; Feb. 5.
- Folding mechanism. J. J. Halliwell. 1,722,373; July 30.
- Folding mechanism. J. J. Halliwell. 1,722,745; July 30.
- Folding mechanism. A. Novick. 1,734,742; Nov. 5.
- Folding mechanism. E. P. Sheldon. 1,701,055; Feb. 5.
- Folding mechanism for cartonizing machines. A. H. Boileau. 1,724,124; Aug. 13.
- Folding or collapsible chair. E. H. Dean. 1,721,294; July 16.
- Folding rack. A. S. Kirshner. 1,717,981; June 18.
- Folding seat. R. Lederer. 1,706,790; Mar. 26.
- Folding sheet material, Method and apparatus for. F. M. Potter. 1,703,456; Feb. 26.
- Folding stand. A. L. Daniele. 1,721,690; July 23.
- Folding stand. R. H. Hlatt. 1,722,521; July 30.
- Folding structure. B. S. Vaughan. 1,705,347; Mar. 12.
- Folding table. J. W. Anderson. 1,737,821; Dec. 3.
- Folding table. M. H. Eckes. 1,739,449; Dec. 10.
- Folding table. C. E. Fields. 1,697,559; Jan. 1.
- Folding table. E. E. Gowell. 1,697,594; Jan. 1.
- Folding table. W. J. King. 1,697,567; Jan. 1.
- Folding table. G. Kress and E. Buehrer. 1,727,833; Sept. 10.
- Folding table. E. L. Pricbet. 1,709,540; Apr. 16.
- Folding table. A. V. Rackstraw. 1,710,382; Apr. 23.
- Folding table. G. F. Willett. 1,698,420; Jan. 8.
- Foliage, Preparing. D. S. Anderson. 1,714,838; May 28.
- Follower. E. J. Card and V. A. Gronberg. 1,725,339; Aug. 20.
- Follower for filing-cabinet drawers. A. Burger. 1,738,419; Dec. 3.
- Font for poultry, Sanitary. J. McCartney. 1,699,501; Jan. 15.
- Font of type. A. Dietz. Des. 79,792; Nov. 5.
- Font of type. H. B. Hauck and J. T. Barlow. Des. 78,872; June 25.
- Food and other useful products from lower vegetables, Manufacture of. A. Kahn. 1,702,303; Feb. 19.
- Food chopper. A. F. Nauman. 1,707,563; Apr. 2.
- Food confection. B. F. Goodwin. 1,727,342; Sept. 10.



- Food cutter, T. C. Williams. 1,721,937; July 23.  
Food cutter, T. C. Williams. 1,736,238; Nov. 19.  
Food dispenser, F. Hoke, G. H. Rossebo, and E. E. Col-  
lison. 1,734,466; Nov. 5.  
Food-dispensing table. A. G. Rothman and C. H. Carter  
1,737,806; Dec. 3.  
Food heater, P. W. Trier. Des. 77,795; Feb. 19.  
Food mixer, W. J. Charnley. 1,717,760; June 18.  
Food, Preparing. E. M. Simonds. 1,702,854; Feb. 19.  
Food product, B. Dass. 1,708,914; Apr. 9.  
Food product, M. Nilsson. 1,701,081; Feb. 5.  
Food product, S. H. Perky. 1,717,401; June 18.  
Food product, W. D. Richardson and R. C. Newton.  
1,701,084; Feb. 5.  
Food product and making same. S. Gelfand. 1,697,312;  
Jan. 1.  
Food product and making same. L. Shostak. 1,735,510;  
Nov. 12.  
Food product and making same, Frozen. G. D. Turnbow.  
1,737,101; Nov. 26.  
Food product and making the same. C. H. Parsons.  
1,737,770; Dec. 3.  
Food product and producing the same. R. B. Chamberlin.  
1,710,403; Apr. 23.  
Food product, Making. S. A. McDougall. 1,705,332;  
Mar. 12.  
Food products, Apparatus for producing frozen. G. D.  
Turnbow. 1,699,170; Jan. 15.  
Food products from nut kernels, Making. E. G. Hess.  
1,725,801; Aug. 27.  
Food products, Purifying. E. H. Reynolds. 1,738,318;  
Dec. 3.  
Food-protecting device. A. L. Alaj. 1,699,339; Jan. 15.  
Foodstuffs, Apparatus for preparing. H. L. Johnston.  
1,724,598; Aug. 13.  
Foodstuffs for cattle, Converting. H. Robinson.  
1,725,969; Aug. 27.  
Food substances, Preparing. W. A. Smith. Re17,308;  
May 28.  
Food, Yeast. O. R. Brown. 1,712,025; May 7.  
Foot, Artificial. H. F. Smith. 1,704,065; Mar. 5.  
Foot attachment. O. L. Letourneau. 1,736,609; Nov. 19.  
Football and other like games, Coin-fed apparatus for  
playing. G. Smith. 1,702,367; Feb. 19.  
Football apparatus. B. Klum. 1,717,693; June 18.  
Football indicator. W. A. Schutt. 1,709,041; Apr. 16.  
Foot brace. J. A. Skoglund. 1,731,276; Oct. 15.  
Foot brace. J. A. Skoglund. 1,737,897; Dec. 3.  
Footlight for stages, Vanishing. E. V. Harding.  
1,732,600; Oct. 22.  
Footplate. F. L. Becker. 1,714,655; May 28.  
Foot rest. J. C. Fate. 1,723,478; Aug. 6.  
Footstool. C. Westmann. 1,712,412; May 7.  
Foot supporting and correcting device. T. A. Henigan.  
1,716,634; June 11.  
Foot-treatment appliance. A. E. Block. 1,739,540; Dec. 17.  
Footwear. L. H. Barone. 1,734,846; Nov. 5.  
Footwear. E. H. Costellow. 1,715,120; May 28.  
Footwear. F. S. Farnum. 1,720,671; July 16.  
Footwear. O. Habicht. 1,729,254; Sept. 24.  
Footwear. Henry C. Hebig. 1,742,176; Dec. 31.  
Footwear. P. M. Marsh and E. B. Ward. 1,704,299;  
Mar. 5.  
Footwear. H. C. Porr. 1,715,147; May 28.  
Footwear. G. S. Shaw. 1,729,495; Sept. 24.  
Footwear and artificial-leather upper material therefor.  
W. H. Jenks. 1,707,480; Apr. 2.  
Footwear and manufacturing the same. W. T. Tracy.  
1,733,105; Oct. 22.  
Footwear and the like, Tread member for. J. R. Gammett.  
1,698,017; Jan. 8.  
Footwear, Apparatus for building rubber. W. W. Benner.  
1,730,318; Oct. 1.  
Footwear, Arch-supporting. H. A. Gartner. 1,717,968;  
June 18.  
Footwear by factory methods, Facilitating the production  
of. K. Dressel. 1,731,738; Oct. 15.  
Footwear construction. J. Cardamone. 1,726,057; Aug.  
27.  
Footwear for draft animals. A. Watson. 1,710,909;  
Apr. 30.  
Footwear, Scraping device for. F. P. McNulty. 1,718,428;  
June 25.  
Footwear, Transparent foldable. W. B. Ihnen. 1,717,690;  
June 18.  
Footwear uppers, Apparatus for assembling. E. L. Patten.  
1,714,618; May 28.  
Force cup. O. E. Clark. 1,728,202; Sept. 17.  
Force-meat balls and the like, Apparatus for the produc-  
tion of. P. A. J. Persson. 1,699,914; Jan. 22.  
Forceps, Adjustable obstetric. P. S. Corleo. 1,707,298;  
Apr. 2.  
Forceps, Capsule. C. N. Anderson. 1,725,172-3; Aug. 20.  
Forceps, Dental. J. E. Miller. 1,730,230; Oct. 1.  
Forceps, Veterinary obstetrical. H. Zins. 1,703,050;  
Feb. 19.  
Forestry and dyeing standing living trees. H. Renner.  
1,727,939; Sept. 10.  
Forge, Bit. F. J. Hinderliter. 1,716,695; June 11.  
Forged chambers, Making. W. M. Cross. 1,699,688;  
Jan. 22.  
Forgery-preventing means. H. A. Dwyer. 1,737,709;  
Dec. 3.  
Forging and making same, Built-up sectional. G. H. Hig-  
gins. 1,723,036; Aug. 6.  
Forging crank shafts, Process and apparatus for. A. J.  
Larcher. 1,717,513; June 18.  
Forging machine. W. L. Clouse. 1,727,698; Sept. 10.  
Forging machine. C. F. Osgood. 1,740,708; Dec. 24.  
Forging machine. T. M. Stephens. 1,707,284; Apr. 2.  
Forging machine, Automatic. L. W. Greve. 1,727,820;  
Sept. 10.  
Forging press or like machine. H. F. Massey. 1,713,974;  
May 21.  
Forging steel gate-valve bodies. V. E. Flodin. 1,738,567;  
Dec. 10.  
Fork—See— Tuning fork.  
Chinker fork.  
Grappling fork.  
Fork and welt-replenishing mechanism, Combined filling.  
W. H. Wakefield. 1,737,691; Dec. 3.  
Fork or similar article, Carving. C. A. Joslin. Des.  
78,932; July 9.  
Forks with two and more prongs, Manufacturing. O.  
Hermann. 1,733,260; Oct. 29.  
Form, Adjustable end. E. L. Soule. 1,713,100; May 14.  
Form clamp. A. B. Blaser. 1,698,931; Jan. 15.  
Form clamp. G. B. Bosco. 1,726,976; Sept. 3.  
Form clamp. H. H. Lampert. 1,699,503; Jan. 15.  
Form clamp. A. H. Symons. 1,704,307; Mar. 5.  
Form clamp, Concrete-. F. N. Bierce. 1,721,542; July 23.  
Form, Collapsible. J. N. Helzel. 1,700,889; Feb. 5.  
Form-collating means. F. C. Gibson. 1,736,260; Nov. 19.  
Form for concrete road curbing. J. H. Mosel. 1,739,254;  
Dec. 10.  
Form for concrete stairs, Portable. R. Newcomb.  
1,703,633; Feb. 26.  
Form for inspecting stockings. E. R. Ammon. 1,699,265;  
Jan. 15.  
Form for inspecting stockings, Expensible. E. R. Ammon.  
1,727,499; Sept. 10.  
Form for shaping ties. C. Dramis. 1,704,081; Mar. 5.  
Form for use in constructing monolithic sewers and the  
like. M. F. Dougherty. 1,722,038; July 23.  
Form maker for road curbsings. M. H. Sheppard.  
1,712,358; May 7.  
Form or rail, Road. G. H. Miller. 1,727,516; Sept. 10.  
Form-retaining device for gloves. M. B. Turner.  
1,733,680; Oct. 29.  
Form, Stocking. J. L. Fagan. 1,709,712; Apr. 16.  
Form-supporting device. M. A. Eklof. 1,719,823; July 9.  
Form tie and spacer. G. B. Bosco. 1,721,685; July 23.  
Form, Wall building. J. W. Miles. 1,702,659; Feb. 19.  
Forming an interiorly beaded or looped tearing-strip can,  
Method and apparatus for. G. F. Walter. 1,717,590;  
June 18.  
Forming and stripping means. H. I. Morris. 1,730,621;  
Oct. 8.  
Forming apertured plates. C. P. Eisenhower. 1,732,880;  
Oct. 22.  
Forming articles, Apparatus for. J. W. Fay. 1,706,393;  
Mar. 26.  
Forming articles from pulp, Method of and apparatus for.  
M. P. Chaplin. 1,707,429; Apr. 2.  
Forming cams. F. Terbusch. 1,729,300; Sept. 24.  
Forming composite articles. G. A. Gros. 1,706,730;  
Mar. 26.  
Forming concrete blocks, Apparatus for. K. T. Romie.  
1,707,994; Apr. 9.  
Forming cork disks and gaskets and product of the same.  
W. F. Grupe. 1,702,600; Feb. 19.  
Forming fans. H. Ford. 1,707,463; Apr. 2.  
Forming fibrous sheet material, Apparatus for. J. J.  
Hinde. 1,699,487; Jan. 15.  
Forming hollow articles. F. P. Vincent. 1,700,751;  
Feb. 5.  
Forming letters and symbols in the air, Method and appa-  
ratus for. J. T. Remey. 1,716,794-5; June 11.  
Forming paper strips, Method and apparatus for. J. C.  
Sherman. 1,699,760; Jan. 22.  
Forming pipe, Method and apparatus for. L. E. Miller.  
1,718,753; June 25.  
Forming pretzels and similar articles, Method of and ap-  
paratus for. I. Elliott. 1,739,892; Dec. 17.  
Forming sleeve actuators. A. M. Niven. 1,720,139; July 9.  
Forming splice bars. E. S. Seavey. 1,710,592; Apr. 23.  
Forming wire articles, Mechanism for and method of. J.  
M. Glaser. 1,701,532; Feb. 12.  
Forms, Clamp for concrete. J. A. Gilman. 1,717,446;  
June 18.  
Formaldehyde and other oxidation products of hydro-  
carbons, Manufacture of. F. J. Carman and T. H.  
Chilton. 1,697,106; Jan. 1.  
Formaldehyde and urea, and making the same, Condensa-  
tion product of. L. Smidht. 1,704,347; Mar. 5.  
Formaldehyde, Making. A. J. Weith, V. E. Meharg, and  
H. W. Ahlbeck. 1,738,745; Dec. 10.  
Formaldehyde, Production of. W. C. Arsem. 1,740,141;  
Dec. 1



- Foundries, Mechanism for handling sand in. E. S. Carman. 1,739,887; Dec. 17.
- Foundries, Sand thrower for. B. Berghaus. 1,697,160; Jan. 1.
- Foundry mold, Permanent metal. E. C. Lewis. 1,734,974; Nov. 12.
- Fount, Chick. S. G. Carmean and A. C. Crimmel. 1,718,944; July 2.
- Fountain; See—  
     Chick fountain.  
     Drinking fountain.  
     Illuminated fountain.  
     Ink fountain.  
     Poultry fountain.  
     Sanitary fountain.  
     Soda fountain.  
     Wash fountain.
- Fountain, H. E. Esch. Des. 77,824; Feb. 26.
- Poultry drinking fountain. Watering fountain.
- Fountain attachment for paintbrushes. I. Sacks. 1,716,980; June 11.
- Fountain comb. B. Ames. 1,704,959; Mar. 12.
- Fountain for poultry, Drinking. F. W. Lord. 1,702,973; Feb. 19.
- Fountain or feeder, Poultry. D. B. Tolley. 1,729,912; Oct. 1.
- Fountain or similar article. G. S. Brush. Des. 78,265; Apr. 16.
- Fountain washing device. I. L. Lewis and H. C. Myers. 1,715,933; June 4.
- 4-alkylxybenzene-1-carboxyamino 2-thioglycollic acids, Making. E. Hoffa, R. Brune, and J. Müller. 1,725,080; Aug. 20.
- Four-high mill. O. B. Lindquist. 1,739,156; Dec. 10.
- 4-hydroxy-3-acetaminoaryl-1-arsonic acid, Manufacturing. L. Benda and O. Sievers. 1,739,820; Dec. 17.
- Four-wheel brake. M. W. McConkey. 1,726,445; Aug. 27.
- Fowl decapitator. A. Sawicki. 1,729,845; Oct. 1.
- Fowl-plucking machine. P. A. McTerney. 1,727,352; Sept. 10.
- Fractionating apparatus. F. P. Risdon. 1,711,656; May 7.
- Fractionating column. R. E. Wilson and R. D. Hunneman, W. H. Bahlke, and F. M. Rogers. 1,716,939; June 11.
- Fractionation apparatus. R. H. Van Schaack, jr. 1,725,429; Aug. 20.
- Fracture table. W. J. Knebel. 1,697,121; Jan. 1.
- Frame; See—  
     Adjustable frame.  
     Annealing furnace.  
     Awning and portable frame.  
     Axminster setting frame.  
     Bed frame.  
     Butter-cutter frame.  
     Car frame.  
     Car-truck side frame.  
     Chassis frame.  
     Counting frame.  
     Cushion frame.  
     Damper frame.  
     Door frame.  
     Drawbar frame.  
     Drawing frame.  
     Drying and stretching frame.  
     Embroidery frame.  
     Fly frame.  
     Folding frame.  
     Hand-bag frame.  
     Harrow frame.  
     Heddle frame.  
     Identification-plate frame.  
     Jack frame.  
     Kick-plate frame.  
     Lamp frame.  
     Locomotive frame.  
     Metal and wood frame.  
     Picture frame.  
     Poster frame.  
     Printer's frame.  
     Printing frame.  
     Quilting, crochet, and hand-work frame.  
     Quilting frame.  
     Roof frame.  
     Saw frame.  
     Screw frame.  
     Shingle-packing frame.  
     Ship's stern frame.  
     Side frame.  
     Spectacle frame.  
     Spinning and twisting frame.  
     Spinning frame.  
     Stocking frame.  
     Stretching and drying frame.  
     Stretching frame.  
     Suitcase frame.  
     Switch frame.  
     Tent frame.  
     Tent-supporting frame.  
     Testing frame.  
     Tractor frame.  
     Traveling-case frame.  
     Truck extension frame.  
     Truck frame.  
     Truck side frame.  
     Twister frame.  
     Typesetting frame.  
     Umbrella frame.  
     Weeder frame.  
     Window and door frame.  
     Window frame.  
     Window ventilator frame.  
     Yarn-doubling frame.
- Frame, O. G. Erdmann. 1,725,448; Aug. 20.
- Frame adjustment. Wheeled-barrow. E. M. Smith. 1,740,841; Dec. 24.
- Frame aerial, Folding. P. Rinkel. 1,739,860; Dec. 17.
- Frame and anchor construction, Metal. I. A. Baum. 1,704,717; Mar. 12.
- Frame and journal-box mounting, Side. P. R. Drenning. 1,701,558; Feb. 12.
- Frame and journal box, Side. W. F. Richards. 1,741,537; Dec. 31.
- Frame and making same. T. Beyrle. 1,702,626; Feb. 19.
- Frame and sash construction, Metallic window. R. L. Conniff. 1,705,439; Mar. 12.
- Frame and spring structure, Side. E. W. Webb. 1,740,912; Dec. 24.
- Frame and structural member, Side. G. F. Couch. 1,703,062; Feb. 19.
- Frame and support thereof, Metal. I. A. Baum. 1,698,984; Jan. 15.
- Frame construction. A. I. Marcum. 1,720,796; July 16.
- Frame construction. J. Pauehek. 1,732,416; Oct. 22.
- Frame construction for automobile chassis. C. F. Kettering and C. R. Short. 1,707,732; Apr. 2.
- Frame construction, Window-. S. Carmin. 1,735,952; Nov. 19.
- Frame construction, Window-. H. Purvis. 1,738,203; Dec. 3.
- Frame construction, Window-. C. G. Voigt. 1,703,021; Feb. 19.
- Frame for all-plaster walls, Door. I. A. Baum. 1,731,038; Oct. 8.
- Frame for an exercising machine. W. A. Matheson. Des. 78,474; May 7.
- Frame for automobile awnings, Extensible. A. F. Gillet. 1,717,921; June 18.
- Frame for automobiles. S. I. Kekete. 1,731,615; Oct. 15.
- Frame for bedsteads, End. C. A. Stuart. Des. 78,849-68; June 25.
- Frame for bicycles and the like. H. Weber. 1,725,838; Aug. 27.
- Frame for building openings. C. P. Gifford. 1,721,950; July 23.
- Frame for buildings. F. L. Purdy. 1,733,169; Oct. 29.
- Frame for buildings, Steel. W. A. Bates. 1,735,627; Nov. 12.
- Frame for car trucks, Side. F. W. Lewis. 1,699,298-9; Jan. 15.
- Frame for car trucks, Side. H. D. Taylor. 1,719,525; July 2.
- Frame for cigarette lighting and vending machine. C. W. Parker. Des. 77,497; Jan. 15.
- Frame for clocks or articles of analogous nature. P. Cricchio. Des. 79,282; Aug. 27.
- Frame for cushion seats. Border. J. A. Findura. 1,728,235; Sept. 17.
- Frame for doors, Metal. I. A. Baum. 1,717,084; June 11.
- Frame for doors, Metal. I. A. Baum. 1,720,200; July 9.
- Frame for drying gelatine, glue, and the like. J. C. Anderson. 1,739,567; Dec. 17.
- Frame for engines. Detachable end. L. B. Jones. 1,722,798; July 30.
- Frame for eyeglasses, Spectacle. F. Spill. Des. 80,150; Dec. 17.
- Frame for holding tubular filter elements. R. W. Diamond. 1,706,400; Mar. 26.
- Frame for mobile units, Attachment. J. S. Oechsle. Re17,209; Feb. 5.
- Frame for motor cycles and like vehicles. F. J. Osborn and N. F. Wood. 1,715,246; May 28.
- Frame for openings, Metal. I. A. Baum. 1,697,300; Jan. 1.
- Frame for pictures, mirrors, or similar articles. A. Fiori. Des. 79,461; Sept. 24.
- Frame for punching and shearing machines. A. Happel. 1,700,221; Jan. 29.
- Frame for railroad vehicles and manufacturing the same. C. W. Todd. 1,731,510; Oct. 15.
- Frame for railway rolling stock, Cast. N. Léonard. 1,735,971; Nov. 19.
- Frame for screens, Metal. C. A. Shogren. 1,741,958; Dec. 31.
- Frame for traveling goods carriers. J. Martin. 1,729,663; Oct. 1.
- Frame for ventilating fans, Adjustable clamping. J. J. Duffie. 1,698,328; Jan. 8.
- Frame for wall openings. I. A. Baum. 1,731,037; Oct. 8.
- Frame for window screens. W. E. Helin. 1,722,572; July 30.
- Frame members of vehicle bodies, Joining. M. W. Moesta. 1,737,861; Dec. 3.
- Frame of a chair or similar article. R. Pickhaver. Des. 79,384; Sept. 10.
- Frame or similar article, Settee. O. A. Anderson. Des. 78,187; Apr. 9.
- Frame or similar article, Settee. C. W. Jones. Des. 77,412; Jan. 8.
- Frame, Picture. H. Molner. Des. 79,601; Oct. 15.
- Frame pull, Metal-screen. L. M. Foss. 1,711,050; Apr. 30.
- Frame structure. N. Borsuk and L. Pesacov. 1,717,139; June 11.
- Frame structure for motor-vehicle license plates. E. Anderson. 1,738,273; Dec. 3.
- Frame structure for railway vehicles. F. L. Alben. 1,702,425; Feb. 19.
- Frame tightener, Bucksaw-. J. J. Michaud and G. Socia. 1,706,673; Mar. 26.
- Frame with balanced rudder for ships, Stern. H. Haas. 1,704,434; Mar. 5.
- Frame with down-turnable wheels for alternative use as traction carriage for small guns and as platform for placing them in battery. G. Madaschi. 1,721,275; July 16.
- Frame with separable journal boxes, Side. W. F. Richards. 1,741,538; Dec. 31.
- Framed structure and fitting therefor. F. A. Davidson. 1,714,298; May 21.
- Frameless bag. A. Kaufmann. 1,697,916; Jan. 8.
- Frames and shelves, Combination mirror. M. A. Chin-chilla. Des. 77,590; Jan. 29.
- Frames for sunglasses and the like, Method and apparatus for manufacturing. F. Spill. 1,739,696; Dec. 17.
- Frames, Manufacture of automobile. T. E. Murray, jr. 1,723,518; Aug. 6.
- Frames, Manufacturing screen. A. G. Borchert. 1,734,710; Nov. 5.
- Frames, Preventing doubles in ring-spinning, doubling, and like. W. Whiteley. 1,713,938; May 21.
- Framework for buildings, Metallic. R. Tappan. 1,709,379; Apr. 16.
- Framework for glass-polishing units or the like. A. W. Platt. 1,735,410; Nov. 12.



- Framework for umbrellas, Metal. J. Rinne. 1,699,717; Jan. 22.
- Framework, Structural. J. L. Badel. 1,704,275; Mar. 5.
- Framing device. A. D. Brixey. 1,703,568; Feb. 26.
- Framing instrument. C. W. Lintner. 1,717,570; June 18.
- Framing machine. C. R. Kittle. 1,700,702; Jan. 29.
- Freezer. V. W. Klein. 1,708,729; Apr. 9.
- Freezer. E. H. Radford. 1,717,407; June 18.
- Freezer. Direct-expansion ice-cream. R. B. Bagby. 1,709,454; Apr. 16.
- Freezer, Ice-cream. A. L. Roebuck. 1,701,764; Feb. 12.
- Freezer, Ice-cream. M. A. Rollman. 1,715,864; June 4.
- Freezing apparatus. L. S. Pfouts. 1,706,589; Mar. 26.
- Freight brace. H. E. Fowler. 1,708,413; Apr. 9.
- French fryer. A. L. Olson. 1,712,161; May 7.
- Frequencies, Combining. H. O. Peterson. 1,725,721; Aug. 20.
- Frequency changer. G. A. Locke. 1,738,253; Dec. 3.
- Frequency changers, Arrangement for obtaining large outputs in. G. von Arco and M. Osnos. 1,698,284; Jan. 8.
- Frequency changes, Indicating. R. B. Shanck. 1,711,101; Apr. 30.
- Frequency changing switch. A. M. Trogner. 1,732,547; Oct. 22.
- Frequency converter. G. Scharowsky. 1,702,452; Feb. 19.
- Frequency converter tie. R. A. Warner. 1,738,466; Dec. 3.
- Frequency meter. B. E. Lenehan. 1,697,192; Jan. 1.
- Frequency meter. F. S. Stickney. 1,707,286; Apr. 2.
- Fretted string instrument. E. O. Starke. Des. 80,246; Dec. 31.
- Friction brake. J. S. Thompson. 1,716,392-3; June 11.
- Friction brake. J. S. Thompson. 1,724,053; Aug. 13.
- Friction brake. J. S. Thompson. 1,724,151; Aug. 13.
- Friction brake. J. S. Thompson. 1,727,043; Sept. 3.
- Friction brake. J. S. Thompson. 1,729,139-40; Sept. 24.
- Friction brake. J. S. Thompson. 1,734,753-4; Nov. 5.
- Friction butt. S. W. Parsons. 1,737,544; Nov. 26.
- Friction coupling, Rotary. C. R. Dale. 1,708,378; Apr. 9.
- Friction detent. R. K. Winning. 1,739,812; Dec. 17.
- Friction drive. C. Pfansthiehl. 1,699,158; Jan. 15.
- Friction drive. Automatic variable. A. J. Holman. 1,721,734; July 23.
- Friction drive for watchmakers' lathes. R. S. De Von. 1,703,613; Feb. 26.
- Friction knob. Vernier. H. L. Bradley. 1,718,942; July 2.
- Friction material. A. Blum. 1,722,890; July 30.
- Frictional engaging mechanism. R. Chilton. 1,714,496; May 28.
- Fringe. A. Holtz. Des. 80,031; Dec. 3.
- Fringe, braid, and the like articles, and producing same. H. Tashman. 1,701,514; Feb. 12.
- Fringe, Rug. E. Friedrich. Des. 79,230; Aug. 20.
- Fringe tassel and making same. R. E. Walliser. 1,700,523; Jan. 29.
- Front-end construction. R. S. Roberts and C. E. Wexlerberg. 1,719,133; July 2.
- Front-wheel brake. A. W. Frehse. 1,712,954; May 14.
- Front-wheel brake. A. W. Frehse. 1,738,768; Dec. 10.
- Frosting glass articles, Apparatus for. M. Pipkin. 1,718,487; June 25.
- Fruit and like peeler. A. Heumann. 1,730,888; Oct. 8.
- Fruit box, Self-locking. C. F. Meisner. 1,702,945; Feb. 19.
- Fruit-cleaning machine. J. F. McGhee. 1,718,056; June 18.
- Fruit, Controlling the sulphur-dioxide content of dried. F. J. Prowse, R. D. Robinson, E. M. Hall, and C. F. Fleming. 1,724,514; Aug. 13.
- Fruit cutter and picker. H. F. Wentzloff. 1,735,821; Nov. 12.
- Fruit cutting and pitting machine. J. Turner. 1,739,995; Dec. 17.
- Fruit-drying apparatus. E. A. White. 1,711,763; May 7.
- Fruit for market, Apparatus for preparing fresh. E. M. Brogden. 1,732,180; Oct. 15.
- Fruit-grading machine. G. S. Helenbolt. 1,708,137; Apr. 9.
- Fruit-grading machine. C. H. Hughes. 1,706,734; Mar. 26.
- Fruit gatherer. G. W. Heisel. 1,732,127; Oct. 15.
- Fruit-gathering device. A. O. Blue. 1,732,252; Oct. 22.
- Fruit grader. P. A. Robbins. 1,735,795; Nov. 12.
- Fruit jar. F. J. Semotan. 1,737,436; Nov. 26.
- Fruit juices, Sterilization and preservation of. L. B. Cleveland. 1,725,956; Aug. 27.
- Fruit, Manufacture of preserved. C. Fraisse. 1,703,730; Feb. 26.
- Fruit-marking machine. J. M. Warner. 1,725,384; Aug. 20.
- Fruit, Method of and apparatus for blending and mixing dried. F. J. Prowse. 1,724,515; Aug. 13.
- Fruit or preserve jar. R. H. Parker. 1,702,795; Feb. 19.
- Fruit-perforating machine. T. C. Moore. 1,735,406; Nov. 12.
- Fruit picker. A. F. Brittain. 1,709,655; Apr. 16.
- Fruit picker. M. Clark. 1,729,762; Oct. 1.
- Fruit picker. W. Kreuzer. 1,736,348; Nov. 19.
- Fruit-picker's bag. E. R. Williams. 1,738,470; Dec. 3.
- Fruit-picking device. G. Gilliam. 1,709,847; Apr. 23.
- Fruit pitter. J. E. Sturges. 1,725,223; Aug. 20.
- Fruit-pitting machine. A. Gotelli. 1,734,010; Oct. 29.
- Fruit-pitting machine. A. T. Tottenham and A. S. Ridley. 1,726,685; Sept. 3.
- Fruit-pressing machine. R. Van Duzer. 1,698,613; Jan. 8.
- Fruit, Preventing fresh. S. E. Oliver. 1,729,893; Oct. 1.
- Fruit product. W. A. Bender. 1,698,985; Jan. 15.
- Fruit product and making the same. B. Barlow. 1,717,489; June 18.
- Fruit product, Dried-. T. W. W. Forrest. 1,711,728; May 7.
- Fruit protector. S. C. Huston. 1,699,240; Jan. 15.
- Fruit-sizing device. C. H. Kavanagh. 1,697,917; Jan. 8.
- Fruit squeezer. E. H. Mitcham. 1,734,265; Nov. 5.
- Fruit-stemming apparatus. O. J. Steinwand. 1,700,861; Feb. 5.
- Fruit-treating apparatus. E. M. Brogden. 1,736,759; Nov. 19.
- Fruit-treating machine and method, Hydraulic. E. A. White. 1,721,537; July 23.
- Fruit washer. L. E. Jones. 1,697,601; Jan. 1.
- Fruits, Apparatus for recovering the valuable constituents from citrus. H. M. Shields. 1,734,534; Nov. 5.
- Fruits, Removal of residual poisons from and the preservation of. R. H. Robinson and H. Hartman. 1,708,330; Apr. 9.
- Frying bacon and the like, Device for. C. W. Carter. 1,699,221; Jan. 15.
- Frying pan. F. Ingersoll. 1,697,427; Jan. 1.
- Frying pan. W. L. Martin. 1,728,354; Sept. 17.
- Frying pan. L. P. Moon. 1,707,532; Apr. 2.
- Fuel. G. Hammond. 1,713,530; May 21.
- Fuel and making same, Motor. L. Kirschbraun. 1,701,620; Feb. 12.
- Fuel and making same, Motor. L. Kirschbraun and C. B. Belknap. 1,707,019; Mar. 26.
- Fuel and making the same. G. Hammond. 1,699,355; Jan. 15.
- Fuel and making the same. L. Kirschbraun. 1,725,198; Aug. 20.
- Fuel, Apparatus for burning pulverized. G. H. Kaemmerling. 1,714,128; May 21.
- Fuel, Apparatus for handling powdered. M. W. Arrowood. Re17,427; Sept. 10.
- Fuel atomizer, Liquid-. A. C. Boyd. 1,719,869; July 9.
- Fuel burner. W. W. Beals. 1,711,035; Apr. 30.
- Fuel burner. H. T. Dyer. 1,738,176; Dec. 3.
- Fuel burner. E. H. Peabody. 1,738,199; Dec. 3.
- Fuel burner, Centrifugal fluid-. J. J. Simmons and R. J. Delaney. 1,728,011; Sept. 10.
- Fuel burner, Liquid-. C. G. Novak. 1,699,623; Jan. 22.
- Fuel burner, Liquid-. L. T. Wilcox. 1,733,174; Oct. 29.
- Fuel burner, Liquid and gaseous. C. J. Sherman. 1,735,882; Nov. 19.
- Fuel burner, Pulverized-. G. W. Clendon. 1,708,496; Apr. 9.
- Fuel burner, Pulverized-. O. de Lorenzi. 1,736,903; Nov. 26.
- Fuel burner, Pulverized-. H. E. Hazlehurst and O. Margetson. 1,721,879; July 23.
- Fuel-burning apparatus. C. E. Hawke. 1,734,486; Nov. 5.
- Fuel burning, Apparatus and method of. L. De Florez. 1,729,763; Oct. 1.
- Fuel-burning apparatus, Liquid. W. E. Deland. 1,722,735; July 30.
- Fuel-burning apparatus, Pulverized-. J. E. Bell. 1,717,830; June 18.
- Fuel-burning device. L. I. Aldrich. 1,706,395; Mar. 26.
- Fuel-burning device. L. I. Aldrich. 1,724,690; Aug. 13.
- Fuel-burning furnace, Pulverized. J. E. Bell. 1,708,929; Apr. 16.
- Fuel-burning furnace, Pulverized. M. Frisch. 1,734,669; Nov. 5.
- Fuel-burning mechanism. H. I. Morris. 1,722,505; July 30.
- Fuel-burning mechanism and conditioning fuel for burning purposes. H. I. Morris. 1,722,504; July 30.
- Fuel burning, Method of and apparatus for fluid-. J. P. B. Fiske. 1,725,510; Aug. 20.
- Fuel, Burning of. H. Kreisler. 1,714,678; May 28.
- Fuel-burning system. J. T. Janette. 1,715,839; June 4.
- Fuel combustion. H. R. Brunner. 1,729,151; Sept. 24.
- Fuel combustion, Pulverized-. J. G. Coutant. 1,703,814; Feb. 26.
- Fuel-combustion-rate intensifier. A. J. Sievers. 1,727,382; Sept. 10.
- Fuel control. O. Mortenson and O. De Guire. 1,737,196; Nov. 26.
- Fuel-control attachment for carburetors. F. Barden. 1,711,767; May 7.
- Fuel-control device. C. R. Short. 1,712,941; May 14.
- Fuel-control mechanism. W. B. Bronander. 1,709,930; Apr. 23.
- Fuel-controlling means for the operation of internal-combustion engines with different fuels. C. F. G. Kjellberg. 1,713,701; May 21.
- Fuel cut-off, Automatic. G. A. Sager. 1,716,244; June 4.
- Fuel economizer. R. P. King. 1,700,411; Jan. 29.
- Fuel economizer. J. A. O'Connor. 1,712,933; May 14.
- Fuel economizer and smoke consumer. A. J. Hammer. 1,722,700; July 30.
- Fuel-distributing apparatus. C. E. Underwood and J. A. Beatty. 1,739,929; Dec. 17.
- Fuel-elevating device for motor vehicles, Liquid-. W. E. Hart. 1,724,582; Aug. 13.
- Fuel, Emulsified. L. Kirschbraun. 1,701,621; Feb. 12.
- Fuel emulsion and process, Combustible. L. Kirschbraun, H. J. Rossbacher, and G. Abson. 1,701,622; Feb. 12.



- Fuel-feed device for internal-combustion engines. V. Heidelberg. 1,719,658; July 2.
- Fuel-feed device, Liquid. E. A. and E. A. Field, jr. 1,713,334; May 14.
- Fuel-feed indicator. J. E. Lea. 1,706,928; Mar. 26.
- Fuel-feed system. C. H. Braselton and F. B. MacLaren. 1,715,638; June 4.
- Fuel-feed system. E. R. Huntley. 1,729,723; Oct. 1.
- Fuel-feed system. L. M. Persons. 1,710,004; Apr. 23.
- Fuel-feeding apparatus. W. Crow and J. C. Schaffer. 1,718,032; June 18.
- Fuel-feeding apparatus, Liquid-. J. H. McIlvaine. 1,705,263; Mar. 12.
- Fuel-feeding apparatus operated by pressure. E. A. Rockwell. 1,725,210; Aug. 20.
- Fuel-feeding device. A. Bandow. 1,724,988; Aug. 20.
- Fuel-feeding device. G. Boyd. 1,732,457; Oct. 22.
- Fuel-feeding device. J. W. Cox. 1,697,049; Jan. 1.
- Fuel-feeding device. H. A. Stukes. 1,720,931; July 16.
- Fuel-feeding device for internal-combustion engines, Supplementary. H. B. Higgins, jr. 1,704,832; Mar. 12.
- Fuel-feeding means. H. M. Leonard. 1,710,365; Apr. 23.
- Fuel-feeding mechanism, Controlling means for. F. B. MacLaren. 1,711,152; Apr. 30.
- Fuel-feeding system. J. A. Diener. 1,712,492; May 14.
- Fuel-feeding system. J. V. Giesler. 1,708,306; Apr. 9.
- Fuel-feeding system for furnaces. W. A. Edwards. 1,719,397; July 2.
- Fuel for producing combustion, Apparatus for supplying. J. A. Brown. 1,728,839; Sept. 17.
- Fuel furnace, Powdered-. C. Hufschmidt. 1,729,217; Sept. 24.
- Fuel furnace, Pulverized-. H. R. Collins. 1,736,847; Nov. 26.
- Fuel-gasifying device. A. A. Gohn. 1,732,841; Oct. 22.
- Fuel-injection device for internal-combustion engines. H. R. Ricardo. 1,740,316; Dec. 17.
- Fuel-injection means and method. B. von Salis. 1,703,913; Mar. 5.
- Fuel-injection system. L. O. French. 1,705,665; Mar. 19.
- Fuel-injection system for oil engines. O. A. Banner. 1,703,858; Mar. 5.
- Fuel-injection system. L. O. French. 1,734,802; Nov. 5.
- Fuel-injection system. J. M. Lea. 1,735,439; Nov. 12.
- Fuel injector. A. C. Attendu. 1,735,718; Nov. 12.
- Fuel injector. E. R. Hewitt. 1,737,155; Nov. 26.
- Fuel in internal-combustion engines, Injection of liquid. L. K. Braren. 1,736,647; Nov. 19.
- Fuel lifting and carbureting device. W. A. Edwards. Re17,261; Apr. 9.
- Fuel, Low-compression. E. V. Bereslavsky. 1,713,589; May 21.
- Fuel metering and feeding device. E. F. White. 1,734,659; Nov. 5.
- Fuel mixer. J. McClenahan. 1,708,549; Apr. 9.
- Fuel mixer for internal-combustion engines. H. Wayte. 1,711,762; May 7.
- Fuel mixer, Multistage. G. W. McKee. 1,739,161; Dec. 10.
- Fuel mixing and feeding device. S. G. Brinkman. 1,733,398; Oct. 29.
- Fuel-mixing device. S. B. Daugherty. 1,713,745; May 21.
- Fuel-mixing device. J. W. Smith. 1,720,246; July 9.
- Fuel mixture of predetermined calorific value, Method of and apparatus for producing a. R. S. McNeil. 1,719,898; July 9.
- Fuel mixtures to internal-combustion engines, Device for feeding. W. Heald. 1,711,495-6; May 7.
- Fuel, Motor. T. H. Stackhouse. 1,741,206; Dec. 31.
- Fuel propelling and mixing device. J. M. Brown. 1,725,336; Aug. 20.
- Fuel pulverizer. H. G. Lykken. 1,728,423; Sept. 17.
- Fuel regulator, Automatic. C. L. Stokes. 1,696,929; Jan. 1.
- Fuel saver or economizer. H. Schaperjahn. 1,713,400; May 14.
- Fuel-saving device. T. Mizoguchi and T. Kawahara. 1,709,632; Apr. 16.
- Fuel storage and reclaiming system. W. A. Gilchrist. 1,730,884; Oct. 8.
- Fuel-supply apparatus. M. Csapayi and R. Curda. 1,708,535; Apr. 9.
- Fuel-supply apparatus. E. Dickey. 1,719,103; July 2.
- Fuel-supply apparatus. E. Dickey. 1,719,214; July 2.
- Fuel-supply apparatus for internal-combustion engines. J. M. Bartley. 1,709,969; Apr. 23.
- Fuel-supply device, Liquid-. F. J. S. Jones. 1,732,443; Oct. 22.
- Fuel-supply system. C. H. Braselton and F. B. MacLaren. 1,703,984; Mar. 5.
- Fuel-supply system. C. H. Braselton and F. B. MacLaren. 1,740,450; Dec. 24.
- Fuel-supply system. T. A. Peebles. 1,710,839; Apr. 30.
- Fuel supply to gas-burner pilots, Device for controlling. E. E. Ledbetter. 1,699,297; Jan. 15.
- Fuel-supplying device. L. H. L. Bellem. 1,735,032; Nov. 12.
- Fuel-supplying system. L. P. Barlow. 1,736,033; Nov. 19.
- Fuel system for oil burners. L. S. Chadwick. 1,711,457; Apr. 30.
- Fuel tank. O. Parson. 1,725,537; Aug. 20.
- Fuel to gas generators, Feeding. T. F. Holden. 1,724,402; Aug. 13.
- Fuel vaporizer, Liquid-. R. F. Lonaberger and C. F. Sands. 1,738,497; Dec. 3.
- Fuels and similar products, Manufacture of motor. D. J. Young. 1,706,686; Mar. 26.
- Fuels, Apparatus for treatment of. H. M. Bone. 1,728,916; Sept. 24.
- Fuels, Apparatus for utilizing fluid. W. C. McKeown. 1,741,725; Dec. 31.
- Fuels, Atomizing liquid. W. W. Williams. 1,738,489; Dec. 3.
- Fuels, Gasification of liquid. A. V. Diaz. 1,717,767; June 18.
- Fuels, Manufacture of synthetic liquid. E. A. Prudhomme. 1,711,856; May 7.
- Fuels, Method and apparatus for burning. W. E. Trent. 1,726,870; Sept. 3.
- Fuels, Retort for carbonizing bituminous. J. Plassmann. 1,737,681; Dec. 3.
- Fuelizer for hydrocarbons. C. A. French and R. R. Waterman. 1,733,658; Oct. 29.
- Fuelizer for internal-combustion engines operating power actuators. C. S. Bragg and V. W. Klesrath. 1,735,634; Nov. 12.
- Fulcrums, Making. G. H. Austin. 1,708,251; Apr. 9.
- Fume-treating device. W. Zitella. 1,733,710; Oct. 29.
- Fumigant. W. Moore. 1,702,168; Feb. 12.
- Fumigant cartridge. H. W. Houghton. 1,704,607; Mar. 5.
- Fumigating. H. P. Eastman. 1,719,361; July 2.
- Fumigating apparatus. H. Roberts. 1,742,149; Dec. 31.
- Fumigating device. C. C. Winchester. 1,728,157; Sept. 10.
- Fungicide. W. H. Volck. 1,707,467; Apr. 2.
- Funnel. K. F. Black. 1,727,195; Sept. 3.
- Funnel. J. Demateis. 1,725,622; Aug. 20.
- Funnel. B. P. Higby and W. D. Pothour. 1,733,261; Oct. 29.
- Funnel. P. Rovano. 1,705,312; Mar. 12.
- Funnel, Detachable pail. J. Lindahl. 1,732,130; Oct. 15.
- Funnel, Filtering. C. R. Owens. 1,739,559; Dec. 17.
- Funnel or the like, Collapsible. T. H. Donnelly. 1,740,418; Dec. 17.
- Funnel, Straining. J. W. Walden. 1,734,841; Nov. 5.
- Fur and making the same, Imitation astrakhan. G. Romane. 1,731,591; Oct. 15.
- Fur brushing and ironing machine. J. Zabel. 1,724,542; Aug. 13.
- Fur-dressing machine. J. Czortkowski. 1,702,405; Feb. 19.
- Fur dyeing. W. E. Boldireff and P. N. Korukin. 1,714,941; May 28.
- Fur-grooving machine. C. Huss and F. Tournoy. 1,722,630; July 30.
- Fur machine. F. W. Horstmann. 1,725,192; Aug. 20.
- Fur machine. F. W. Horstmann. 1,737,087; Nov. 26.
- Fur mixing and dusting machine. H. B. Fanton. 1,740,289; Dec. 17.
- Fur-plucking machine. F. W. Horstmann. 1,725,082; Aug. 20.
- Fur, Producing embossed. C. Huss and F. Fournoy. 1,708,763; Apr. 9.
- Furfural, Manufacturing. C. S. Miner and H. J. Brownlee. 1,735,084; Nov. 12.
- Furfural reaction product. W. O. Snelling. 1,716,606; June 11.
- Furnace: See—
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|--------------------------------------|-------------------------------|
| Annealing and heat-treating furnace. | Heating furnace.              |
| Annealing furnace.                   | Hoffmann furnace.             |
| Blast furnace.                       | Hot-air furnace.              |
| Boiler furnace.                      | Melting and refining furnace. |
| Ceramic furnace.                     | Melting furnace.              |
| Chemical furnace.                    | Metal-sweating furnace.       |
| Coal-dust furnace.                   | Metal-treating furnace.       |
| Continuous furnace.                  | Metallurgical furnace.        |
| Cupola furnace.                      | Muffle furnace.               |
| Dental furnace.                      | Nonreversible furnace.        |
| Electric-arc furnace.                | Normalizing furnace.          |
| Electric furnace.                    | Oil-burning furnace.          |
| Electrically-heated furnace.         | Open-hearth furnace.          |
| Floor furnace.                       | Pit furnace.                  |
| Fluid heating furnace.               | Pot furnace.                  |
| Fuel-burning furnace.                | Push furnace.                 |
| Fuel furnace.                        | Regenerative furnace.         |
| Gas-heated furnace.                  | Retort furnace.               |
| Glass furnace.                       | Reverberatory furnace.        |
| Glass-melting furnace.               | Roasting furnace.             |
| Glory-hole furnace.                  | Rotary furnace.               |
| Grate furnace.                       | Rotary-hearth furnace.        |
| Hearth furnace.                      | Salt-bath furnace.            |
| Heat annealing furnace.              | Sectional furnace.            |
| Heat-drawing furnace.                | Smelting furnace.             |
| Heat-treating furnace.               | Steam-boller furnace.         |
| Heat-treatment furnace.              | Warm-air furnace.             |
- Furnace. W. M. Akin and L. Young. 1,729,411; Sept. 24.
- Furnace. M. Appel. 1,726,606; Sept. 3.
- Furnace. J. F. Baker. 1,705,703 4; Mar. 19.
- Furnace. C. H. Balmat. 1,699,732; Jan. 22.
- Furnace. R. M. Barbour and H. H. Knipe. 1,710,444; Apr. 23.
- Furnace. W. T. Barker. 1,712,642; May 14.
- Furnace. H. T. Bellamy and W. H. Groves. 1,702,033; Feb. 12.
- Furnace. H. S. Bennett. Re 17,454; Oct. 8.
- Furnace. A. W. Bennis. 1,707,893; Apr. 2.
- Furnace. E. E. Billow. 1,732,876; Oct. 22.
- Furnace. L. Box. 1,707,623; Apr. 2.
- Furnace. L. Box. 1,717,657; June 18.
- Furnace. H. B. Cannon. 1,701,834; Feb. 12.



- Furnace. H. B. and J. W. Cannon. 1,701,835-6; Feb. 12.  
 Furnace. C. H. Carpenter and A. D. Keene. 1,725,129; Aug. 20.  
 Furnace. A. F. Cornner and G. W. K. King. 1,715,160; May 28.  
 Furnace. J. W. Cox. 1,724,455; Aug. 13.  
 Furnace. F. J. Curran. 1,717,667; June 18.  
 Furnace. L. de Flores. 1,717,334; June 11.  
 Furnace. H. H. Diggins. 1,731,525; Oct. 15.  
 Furnace. O. N. Dybvig. 1,712,260; May 7.  
 Furnace. H. Elzemeyer and P. S. Knittel. 1,721,440; July 16.  
 Furnace. I. W. Foltz. 1,702,597; Feb. 19.  
 Furnace. A. O. Hansen. 1,739,836; Dec. 17.  
 Furnace. W. B. Hardway. 1,719,885; July 9.  
 Furnace. W. A. Hare. 1,729,776; Oct. 1.  
 Furnace. I. Harter. 1,711,147; Apr. 30.  
 Furnace. I. Harter. 1,712,919; Apr. 30.  
 Furnace. G. Hofmann. 1,727,598-9; Sept. 10.  
 Furnace. U. N. Howell. 1,699,433; Jan. 15.  
 Furnace. C. L. Ipsen. 1,731,166; Oct. 8.  
 Furnace. G. P. Jackson. 1,701,852-3; Feb. 12.  
 Furnace. D. S. Jacobus and N. E. Lewis. 1,719,475; July 2.  
 Furnace. J. Kerch. 1,707,731; Apr. 2.  
 Furnace. G. A. Kohout. 1,698,135; Jan. 8.  
 Furnace. G. A. Kohout. 1,739,907; Dec. 17.  
 Furnace. E. Lundgren. 1,715,139; May 28.  
 Furnace. T. MacLennan. 1,738,254; Dec. 3.  
 Furnace. R. Malvos, C. and M. Crozemarie. 1,731,901; Oct. 15.  
 Furnace. A. McVay. 1,731,931; Oct. 15.  
 Furnace. H. B. Mellott. 1,726,036; Aug. 27.  
 Furnace. F. Menne. 1,739,250; Dec. 10.  
 Furnace. J. B. Miller. 1,711,802; May 7.  
 Furnace. W. H. Mosher. 1,708,233; Apr. 9.  
 Furnace. J. E. Muhlfeld and V. Z. Caracristi. 1,697,688; Jan. 1.  
 Furnace. G. and D. M. Naismith. 1,725,879; Aug. 27.  
 Furnace. G. and D. M. Naismith. 1,727,898; Sept. 10.  
 Furnace. G. and D. M. Naismith. 1,732,137-8; Oct. 15.  
 Furnace. A. L. Nelson. 1,710,234; Apr. 23.  
 Furnace. C. Nelson. 1,718,798; June 25.  
 Furnace. S. T. Nelson. 1,703,776; Feb. 26.  
 Furnace. G. R. Pratt. 1,737,173; Nov. 26.  
 Furnace. L. V. Reese. 1,709,950; Apr. 23.  
 Furnace. L. V. Reese. 1,730,243; Oct. 1.  
 Furnace. W. E. Ryniker. 1,730,298; Oct. 1.  
 Furnace. T. T. Scott. 1,703,460; Feb. 26.  
 Furnace. T. C. Sherwood. 1,733,461; Oct. 29.  
 Furnace. A. Smallwood and J. Fallon. 1,724,783; Aug. 13.  
 Furnace. A. Simonet. 1,733,829; Oct. 29.  
 Furnace. H. F. Smith. 1,697,373; Jan. 1.  
 Furnace. I. B. Smith. 1,721,840; July 23.  
 Furnace. M. C. Steece. 1,737,392; Nov. 26.  
 Furnace. T. M. Stephens. 1,707,329; Apr. 2.  
 Furnace. J. F. O. Stratton. 1,713,566; May 21.  
 Furnace. E. Tschira. 1,715,961; June 4.  
 Furnace. G. P. Ward. 1,726,050; Aug. 27.  
 Furnace. G. A. Wiig. 1,708,289; Apr. 9.  
 Furnace. W. H. Wineman. 1,738,680; Dec. 10.  
 Furnace and boiler. G. P. Jackson. 1,714,600; May 28.  
 Furnace and burner therefor, Overhead heating. G. F. Blasier. 1,703,706; Feb. 26.  
 Furnace and lining material therefor. E. G. Bailey. 1,719,642; July 2.  
 Furnace and method of smelting, Smelting. R. A. Wagstaff. 1,729,408; Sept. 24.  
 Furnace and operating the same. W. de Fries. 1,740,288; Dec. 17.  
 Furnace and operating the same. E. H. Swindell and F. W. Brooke. 1,741,209; Dec. 31.  
 Furnace and steam-boiler firebox system. P. Salaverri Tellechea. 1,698,771; Jan. 15.  
 Furnace and stoker therefor. F. C. Greene. 1,717,923; June 18.  
 Furnace and treating bodies therein. W. G. Bergman. 1,701,223; Feb. 5.  
 Furnace and ventilating system, Hot-air. C. A. Free. 1,727,540; Sept. 10.  
 Furnace apparatus, Automatic. R. M. André. 1,713,508; May 21.  
 Furnace arch. B. Dobie. 1,738,527; Dec. 10.  
 Furnace arch. R. J. Himmelright. 1,738,580; Dec. 10.  
 Furnace-arch construction. E. P. Stevens. 1,710,247; Apr. 23.  
 Furnace arch walls, Supporting harness for. J. F. Booream. 1,720,941; July 16.  
 Furnace attachment. J. Cusenza. 1,697,855; Jan. 8.  
 Furnace attachment. J. C. Miles. 1,707,531; Apr. 2.  
 Furnace base. H. W. Neal. 1,728,072; Sept. 10.  
 Furnace bonnet. C. J. Holub. 1,733,986; Oct. 29.  
 Furnace burning fuel in suspension. J. E. Bell and G. P. Jackson. 1,723,675; Aug. 6.  
 Furnace cars, Sealing means for. F. T. Cope. 1,738,040; Dec. 3.  
 Furnace casing. W. B. Bryant. Des. 77,809; Feb. 26.  
 Furnace-casing bonnet. F. E. Ford. 1,700,838; Feb. 5.  
 Furnace cleaner. C. E. White. 1,698,180; Jan. 8.  
 Furnace cleaning, Apparatus for. T. Russell. 1,731,593; Oct. 15.  
 Furnace construction. L. S. Abbott. 1,711,821; May 7.  
 Furnace construction. J. L. Breese, jr. 1,708,690; Apr. 9.  
 Furnace construction. R. D. De Wolf. 1,705,965; Mar. 19.  
 Furnace construction. J. C. Fischer. 1,696,907; Jan. 1.  
 Furnace construction. T. E. Purcell. 1,710,241; Apr. 23.  
 Furnace construction. W. Rohn. 1,704,902; Mar. 12.  
 Furnace construction, Electric. G. Keller and E. Wirz. 1,697,188; Jan. 1.  
 Furnace construction, Roasting. E. Halse. 1,732,843-4; Oct. 22.  
 Furnace construction, Open-hearth. A. L. Stevens. 1,736,023; Nov. 19.  
 Furnace control. H. F. Smith. 1,697,209; Jan. 1.  
 Furnace element and maintaining the same. A. G. Betts. 1,703,656; Feb. 26.  
 Furnace fire-box. E. F. Ott. 1,702,482; Feb. 19.  
 Furnace for burning finely-divided fuel. V. Z. Caracristi. 1,738,636; Dec. 10.  
 Furnace for burning finely-divided fuel. W. R. Wood. 1,729,022; Sept. 24.  
 Furnace for burning pulverized coal. E. Lundgren. 1,709,358; Apr. 16.  
 Furnace for melting metals. A. W. Machlet. 1,713,543; May 21.  
 Furnace for pulverulent fuel. W. Kleinow, A. Morgenroth, F. Reinhardt, and W. Bruer. 1,739,035; Dec. 10.  
 Furnace for steam boilers. E. Huwyler. 1,721,782; July 23.  
 Furnace for the destruction of garbage. C. C. Iiving. 1,724,352; Aug. 13.  
 Furnace for treatment of materials. E. B. Thornhill. 1,705,039; Mar. 12.  
 Furnace for water-tube steam boilers. E. S. Smail. 1,707,418; Apr. 2.  
 Furnace-heating means, Tank. R. P. Callard. 1,718,331; June 25.  
 Furnace jackets, Apparatus for the protection of blast. J. P. Dovel. 1,703,520; Feb. 26.  
 Furnace jackets, Protection of blast. J. P. Dovel. 1,703,519; Feb. 26.  
 Furnace lining. L. R. Stowe. 1,723,092; Aug. 6.  
 Furnace linings and walls, Protecting means for. P. W. Thompson, J. W. Parker, and F. Thorp. 1,703,604; Feb. 26.  
 Furnace lining, Electric. M. Tilley. 1,732,623; Oct. 22.  
 Furnace, Operating an open-hearth. W. Trinks. 1,741,002; Dec. 24.  
 Furnace, Operating hearth-type. H. R. MacMichael. 1,730,582; Oct. 8.  
 Furnace operation. G. L. Danforth, jr. 1,718,732; June 25.  
 Furnace operation, Blast. W. A. Haven. 1,738,577; Dec. 10.  
 Furnace or stove structure. A. Erickson. 1,709,467; Apr. 16.  
 Furnace port and operating the same. T. Wilson. 1,710,282; Apr. 23.  
 Furnace-port construction. L. N. McDonald. 1,735,256; Nov. 12.  
 Furnace product, Electric. J. J. Naugle. 1,701,272; Feb. 5.  
 Furnace protection. G. P. Jackson. 1,739,594; Dec. 17.  
 Furnace rabble-arm and tooth construction. G. E. Connolly. 1,736,769; Nov. 26.  
 Furnace-regulating system. G. H. Gibson. 1,735,678; Nov. 12.  
 Furnace regulation. A. R. Smith. 1,736,752-3; Nov. 19.  
 Furnace regulator. T. Long. 1,698,551; Jan. 8.  
 Furnace regulator. S. J. Riley. 1,697,089; Jan. 1.  
 Furnace residues, Removing. M. Schwabach. 1,713,718; May 21.  
 Furnace roller, Water-cooled. R. H. Stevens. 1,702,578; Feb. 19.  
 Furnace-roof construction. M. R. Lorino. 1,730,667; Oct. 8.  
 Furnace-roof construction. J. D. MacKenzie and R. W. Senger. 1,724,098; Aug. 13.  
 Furnace structure. A. J. Jackman. 1,709,350; Apr. 16.  
 Furnace structure and method of operation, Open-hearth. R. B. Kernohan, J. S. Lochhead, and W. Trinks. 1,741,048; Dec. 24.  
 Furnace top, Blast. D. Baker. 1,717,828; June 18.  
 Furnace using forced draft. E. A. McArthur. 1,709,800; Apr. 16.  
 Furnace utilizing forced draft. E. A. McArthur. 1,714,432; May 21.  
 Furnace wall. G. W. Davey. 1,741,679-80; Dec. 31.  
 Furnace wall. C. E. Sharp and C. A. Strachota. 1,712,849; May 14.  
 Furnace wall, Air-cooled. D. S. Jacobus. 1,720,958; July 16.  
 Furnace wall and baffle. D. S. Jacobus. 1,741,718; Dec. 31.  
 Furnace-wall construction. L. H. Hosbein. 1,738,707; Dec. 10.  
 Furnace-wall construction. G. P. Jackson. 1,736,882; Nov. 26.  
 Furnace-wall construction. B. Schroeder. 1,710,901; Apr. 30.  
 Furnace-wall construction. F. H. Waite and G. W. Davey. 1,701,287; Feb. 5.  
 Furnace walls, Tie member for. C. J. Haniman. 1,710,257; Apr. 23.  
 Furnace water wall and wall element. A. T. Hunter. 1,732,514; Oct. 22.  
 Furnace with inside hopper, Stoker. G. A. Kohout. 1,723,182; Aug. 6.



- Furnaces, Air-preheating attachment for. A. J. Cassavant. 1,733,862; Oct. 29.
- Furnaces and the like, Apparatus for opening tap holes of open-hearth. J. E. Newton. 1,730,678; Oct. 8.
- Furnaces and the like, Conveying roll for. W. A. Morton. 1,737,117; Nov. 26.
- Furnaces and the like, Draft control for. J. F. Firestone. 1,710,695; Apr. 30.
- Furnaces, Apparatus for charging and discharging. S. D. Inscho and A. C. Morse. 1,712,997; May 14.
- Furnaces, Apparatus for charging tilting smelting. J. E. Gerlach. 1,707,937; Apr. 2.
- Furnaces, Apparatus for reversing and controlling regenerative. G. H. Isley. 1,722,701; July 30.
- Furnaces, Automatic regulation of the power factor in electric. D. F. Campbell and G. E. Taylor. 1,698,581; Jan. 8.
- Furnaces, Draft control for. H. J. Sauvage. 1,707,281; Apr. 2.
- Furnaces, Draft control for steam-boiler. J. A. Johnson and G. A. Benson. 1,734,210; Nov. 5.
- Furnaces, Fire arch for. L. S. Abbott. 1,711,822; May 7.
- Furnaces, Supporting finger for annealing. F. A. Fahrenwald. 1,700,366; Jan. 29.
- Furnaces, System of regulated air supply for liquid-fuel. B. H. Noland. 1,713,111; May 14.
- Furnaces used in steel making, Operation and construction of regenerative. G. H. Isley. 1,724,656; Aug. 13.
- Furnaces, View passage for. R. P. Vastine. 1,717,636; June 18.
- Furnaces, Water back for. R. A. Foresman. 1,701,480; Feb. 5.
- Furnaces, Wear plate for. J. Kennedy. 1,709,823; Apr. 16.
- Furnaces with the aid of furnace dust, Working blast. P. Heskamp. 1,713,435; May 14.
- Furnaces, Working blast. P. Heskamp. 1,713,436; May 14.
- Furniture. J. M. Bertani. 1,713,863; May 21.
- Furniture. H. L. Brand. 1,725,438; Aug. 20.
- Furniture. M. Thum. 1,725,685; Aug. 20.
- Furniture. M. Thum. 1,726,778; Sept. 3.
- Furniture. S. I. Odlin and F. C. Stanton. 1,733,386; Oct. 29.
- Furniture adapted for the organization of commercial and accounting departments, Arrangement of pieces of. G. Truffaut. 1,733,702; Oct. 29.
- Furniture and making same, Metal. R. Bradshaw. 1,710,202; Apr. 23.
- Furniture and products resulting therefrom, Manufacturing metal. M. Combemale. 1,722,177; July 23.
- Furniture and the like, Joint for articles of. H. Orsenigo. 1,726,362; Aug. 27.
- Furniture, Article of. A. Canto and A. Di Gregorio. 1,716,207; June 4.
- Furniture, Article of. R. B. Burton. 1,735,851; Nov. 19.
- Furniture, Article of. A. W. Franklin. 1,709,123; Apr. 16.
- Furniture, Article of. C. L. Hall. 1,727,596; Sept. 10.
- Furniture, Article of. C. A. Tompkins. 1,728,640; Sept. 17.
- Furniture, Article of. A. G. Voetter. 1,714,115; May 21.
- Furniture attachment. R. Barr. 1,704,782; Mar. 12.
- Furniture attachment. J. P. Horn. 1,703,066; Feb. 19.
- Furniture brace. T. H. Wittliff. 1,706,431; Mar. 26.
- Furniture brace. T. H. Wittliff. 1,710,911; Apr. 30.
- Furniture brace and controlling device. T. H. Wittliff. 1,730,442; Oct. 8.
- Furniture, Cabinet. V. W. Miller and J. B. Hoover. 1,732,481; Oct. 22.
- Furniture, Collapsible. C. E. Stalter. 1,735,513; Nov. 12.
- Furniture, Combination. A. De A. Casanova and O. A. H. Posada. 1,711,373; Apr. 30.
- Furniture, Combination. C. Petersen. 1,710,270; Apr. 23.
- Furniture construction. A. Barton. 1,717,137; June 11.
- Furniture construction. M. Nuberg. 1,721,743; July 23.
- Furniture construction. E. Roos. 1,718,585; May 25.
- Furniture construction. F. Smith. 1,736,511; Nov. 19.
- Furniture construction. T. H. Wittliff. 1,697,298; Jan. 1.
- Furniture construction, Metal. G. C. Brainard and J. A. Fltch. 1,729,475; Sept. 24.
- Furniture construction, Metal. F. B. Harman. 1,729,041; Sept. 24.
- Furniture, Convertible. J. Kerensky. 1,706,669; Mar. 26.
- Furniture, Convertible. J. V. Wilson. 1,727,145; Sept. 3.
- Furniture, Convertible article of. M. C. Berry. 1,741,048; Dec. 24.
- Furniture cover. H. A. Sallop. 1,717,121; June 11.
- Furniture, Fiber. A. C. Jacobs. 1,721,999; July 23.
- Furniture fixture. G. E. Roedding. 1,710,321; Apr. 23.
- Furniture, Folding. G. Puccia. 1,724,220; Aug. 13.
- Furniture, Folding. S. J. Schultdt. 1,728,009; Sept. 10.
- Furniture, Fumigated. L. D. Lichty. 1,719,940; July 9.
- Furniture, Household. F. L. H. Sims. 1,705,591; Mar. 19.
- Furniture, Kitchen. A. S. King. 1,728,615; Sept. 17.
- Furniture-leg attaching piece. O. H. Brubaker. 1,733,859; Oct. 29.
- Furniture, Metal. E. J. Jones. 1,716,274; June 4.
- Furniture, Metal. A. Vericel. 1,718,321; June 25.
- Furniture press. L. Stusak. 1,733,284; Oct. 29.
- Furniture shoe, Sliding. G. W. Sutton. 1,734,053; Nov. 5.
- Furniture slide. W. F. Herold. 1,734,727; Nov. 5.
- Furniture spring. H. Josephson. 1,728,289; Sept. 17.
- Furniture, Store. C. La Hatto. 1,712,890; May 14.
- Furniture, Store-room. J. H. Sheard. 1,712,054; May 7.
- Furniture, Top for. F. A. Sandmann. 1,705,784; Mar. 19.
- Furniture, Upholstered. J. Bradley. 1,697,303; Jan. 1.
- Furniture, Woven. S. Cohen. 1,724,181; Aug. 13.
- Furring and fastening device. J. L. Sullivan. 1,703,557; Feb. 26.
- Furring clip. J. H. Dean. 1,697,228; Jan. 1.
- Furring construction. J. J. Duggan. 1,715,743; June 4.
- Furring device. E. M. Lurie. 1,713,139; May 14.
- Furring post. G. F. Voight. 1,706,008; Mar. 19.
- Furring post. G. F. Voight. 1,714,457; May 21.
- Furring strip. E. V. Walter. 1,714,411; May 21.
- Furring strip. H. F. Weiss. 1,738,469; Dec. 3.
- Furrowing machine. B. T. Wilson. 1,728,318; Sept. 17.
- Furs, Process and agent for carroting. H. T. Leavenworth. 1,738,189; Dec. 3.
- Fuse. J. P. Arndt and J. W. Lelivelt, jr. 1,724,868; Aug. 13.
- Fuse. J. H. Goss. 1,716,884; June 11.
- Fuse. J. H. Hickey. 1,703,236; Feb. 26.
- Fuse. C. Pfaff and J. Pouch. 1,707,414; Apr. 2.
- Fuse. J. Sandin. 1,700,080; Jan. 22.
- Fuse. M. J. Sandin. 1,730,865; Oct. 8.
- Fuse. A. G. Steinmayer. 1,737,205; Nov. 26.
- Fuse and bomb, Combination. H. M. Brayton. 1,719,359; July 2.
- Fuse and its insulator. R. Terrild. 1,728,221; Sept. 17.
- Fuse and manufacturing the same, Safety. J. Fritzsche. 1,702,206; Feb. 12.
- Fuse and manufacturing the same, Safety. J. Fritzsche. 1,705,360; Mar. 12.
- Fuse and switch, Combined electric. J. R. Smith. 1,697,934; Jan. 8.
- Fuse block. F. T. Kovar. 1,714,790; May 28.
- Fuse block and lightning arrester. H. A. Taylor. 1,715,799; June 4.
- Fuse block and plug therefor. C. W. Wallis. 1,721,098; July 16.
- Fuse block for thermal cut-outs. J. M. Fried. 1,732,265; Oct. 22.
- Fuse-block housing. R. B. Benjamin. 1,735,072; Nov. 12.
- Fuse box. E. B. Green. 1,714,866; May 28.
- Fuse, Cartridge. H. R. Cook and C. A. Johnson. 1,702,354; Feb. 19.
- Fuse, Cartridge. C. T. McDonald and H. R. Cook. 1,702,353; Feb. 19.
- Fuse, Cartridge. C. T. McDonald and H. R. Cook. 1,702,355; Feb. 19.
- Fuse construction, Renewable. J. H. Hickey. 1,729,939; Oct. 1.
- Fuse device, Multiple. F. W. Baum. 1,708,963; Apr. 16.
- Fuse, Electric. H. T. Bussmann. 1,735,672; Nov. 12.
- Fuse, Electric. R. W. Gregory and L. C. Grant. 1,705,400; Mar. 12.
- Fuse, Electric. J. H. Hickey. 1,724,022; Aug. 13.
- Fuse, Electric. W. H. Humphreys and W. J. Pollock. 1,739,309; Dec. 10.
- Fuse, Electric. T. E. Murray. 1,740,698-9; Dec. 24.
- Fuse, Electric percussion. H. Rühlmann. 1,704,302; Mar. 5.
- Fuse for projectiles. E. J. McCormick. 1,709,272; Apr. 16.
- Fuse for projectiles. G. E. Rogers. 1,715,513; June 4.
- Fuse for projectiles. A. F. Teitscheid. 1,723,315; Aug. 6.
- Fuse for projectiles, Electric. H. Rühlmann. 1,711,693; May 7.
- Fuse for projectiles of all calibers, Supersensitive. L. E. Remondy. 1,702,133; Feb. 12.
- Fuse for projectiles, Percussion. A. Varaud. 1,726,325; Aug. 27.
- Fuse for spark plugs in internal-combustion engines, Anti-overheating. O. Larsson. 1,712,221; May 7.
- Fuse for switchboard protection, Self-soldering heat-coil. H. F. Skidmore. 1,740,480; Dec. 24.
- Fuse, High-potential. A. O. Austin. 1,730,716; Oct. 8.
- Fuse-lock. F. W. Erickson. 1,711,996; May 7.
- Fuse, Locomotive. J. Sandin. 1,702,484; Feb. 19.
- Fuse mechanism. M. J. Sandin. 1,705,685; Mar. 19.
- Fuse mounting. C. H. Thomas. 1,715,437; June 4.
- Fuse panel. H. K. Krantz and H. G. Baxter. 1,729,880; Oct. 1.
- Fuse panel box. O. S. Jennings. 1,729,877; Oct. 1.
- Fuse plug. L. Baenziger. Re17,341; June 25.
- Fuse plug. A. C. Engelhardt. 1,726,389; Aug. 27.
- Fuse plug. C. Rippe. 1,727,178; Sept. 3.
- Fuse, Projectile. L. E. Remondy. 1,705,206; Mar. 12.
- Fuse protector. A. Kantor. 1,726,492; Aug. 27.
- Fuse protector, Automatic. J. C. Call. 1,713,867; Dec. 10.
- Fuse puller. R. F. Brown. 1,741,222; Dec. 31.
- Fuse, Refillable. R. C. Butler. 1,730,643; Oct. 8.
- Fuse, Registering-renewable plug. J. P. Gilliam. 1,700,356; Jan. 29.
- Fuse, Renewable. J. G. Clemens. 1,725,131; Aug. 20.
- Fuse, Renewable. C. J. Heatherington and O. F. Collins. 1,728,121; Sept. 10.
- Fuse, Renewable. J. Johnson. 1,734,211; Nov. 5.
- Fuse, Renewable safety. H. Klase. 1,730,661; Oct. 8.
- Fuse-setting machine. G. W. Beatty. 1,697,159; Jan. 1.
- Fuse-switch panel. H. K. Krantz. 1,739,036; Dec. 10.
- Fuse-testing device. W. J. Shore. 1,723,750; Aug. 6.
- Fuses and other firing devices, Mechanically-operating retarding device for projectile. L. E. Remondy. 1,699,336; Jan. 15.
- Fuses, Operating electric projectile. H. Schuler and A. Gietmann. 1,739,921; Dec. 17.



- Fuselage. E. B. Carns. 1,727,394; Sept. 10.  
Fuselage for aeroplanes. L. M. Bach. Des. 79,061; July 30.  
Gaiter for suspension springs. C. R. Little. 1,713,611; May 21.  
Galleries and tunnels for mines and the like, Construction of. H. Schaefer. 1,740,961; Dec. 24.  
Galley lock. W. L. Hall. 1,709,216; Apr. 16.  
Galley lock. J. G. Zim. 1,720,812; July 16.  
Galvanic battery. F. C. F. Portail. 1,716,461; June 11.  
Galvanizing apparatus. F. W. Brown. 1,726,336; Aug. 27.  
Galvanizing apparatus. B. P. Finkbone. 1,740,081; Dec. 17.  
Galvanizing bath. N. K. Turnbull. 1,736,948; Nov. 26.  
Galvanizing mechanism. P. J. Kelley. 1,713,232; May 14.  
Galvanometer. C. F. Hindle. 1,702,650; Feb. 19.  
Galvanometer. J. W. Legg. 1,728,555; Sept. 17.  
Galvanometer, Oscillograph. J. W. Legg. 1,697,191; Jan. 1.  
Galvanometer, Recording. F. F. Uehling. 1,727,494; Sept. 10.  
Game. W. Amend. 1,741,903; Dec. 31.  
Game. J. B. Bouchard. 1,699,131; Jan. 15.  
Game. F. Bradley. 1,702,760; Feb. 19.  
Game. A. Bühler-Rossbach. 1,705,141; Mar. 12.  
Game. G. E. Caidon and E. J. Martel. 1,714,546; May 28.  
Game. F. Craig. 1,718,455; June 25.  
Game. S. T. Farrell. 1,741,832; Dec. 31.  
Game. T. J. Junker. 1,733,606; Oct. 29.  
Game. M. R. Kennedy. 1,736,603; Nov. 19.  
Game. F. G. Kiesling. 1,703,009; Feb. 19.  
Game. S. Miller. 1,698,271; Jan. 8.  
Game. C. M. Mugler. 1,726,115; Aug. 27.  
Game. M. Murry. 1,701,931; Feb. 12.  
Game. J. S. Nicholas. 1,730,523; Oct. 8.  
Game. I. Salomon. 1,723,377; Aug. 6.  
Game. W. Sanderson. 1,728,630; Sept. 17.  
Game. D. R. Scanlan. 1,719,239; July 2.  
Game. D. R. Scanlan. 1,738,265; Dec. 3.  
Game. H. Schaffer. 1,707,323; Apr. 2.  
Game. G. Smith. 1,706,329; Mar. 19.  
Game. H. L. Stickney. 1,713,455; May 14.  
Game. E. L. Vondersaar. 1,740,799; Dec. 24.  
Game. D. S. Williams. 1,712,781; May 14.  
Game. E. H. Woodard. 1,720,707; July 16.  
Game apparatus. A. W. Andrews. 1,729,023; Sept. 24.  
Game apparatus. C. M. Blattner. 1,702,246; Feb. 19.  
Game apparatus. A. L. Clark. 1,741,224; Dec. 31.  
Game apparatus. J. E. Jones. 1,718,740; June 25.  
Game apparatus. S. A. Kornsweet. 1,708,101; Apr. 9.  
Game apparatus. Y. Kurihara. 1,714,792; May 28.  
Game apparatus. C. G. Littlefield. 1,704,617; Mar. 5.  
Game apparatus. H. C. Markman. 1,704,619; Mar. 5.  
Game apparatus. D. B. McAlice. 1,722,986; July 30.  
Game apparatus. C. V. Molnar. 1,714,433; May 21.  
Game apparatus. H. H. Ristow. 1,735,794; Nov. 12.  
Game apparatus. R. C. Turner. 1,731,477; Oct. 15.  
Game apparatus. C. Weisser. 1,709,420; Apr. 16.  
Game apparatus. J. G. Willeke. 1,731,959; Oct. 15.  
Game apparatus, Bowling. R. S. Blair. 1,722,784; July 30.  
Game-apparatus case. E. C. Fey. Des. 77,825; Feb. 26.  
Game apparatus, Vending. B. G. Rentz. 1,697,288; Jan. 1.  
Game. Archery. A. B. Vaughan. 1,737,871; Dec. 3.  
Game. Automobile race. C. O. Olson. 1,729,049; Sept. 24.  
Game. Ball-rolling. T. Usami. 1,715,581; June 4.  
Game board. F. Beidelstein. Des. 78,920; July 9.  
Game board. C. W. Jentzsch. Des. 78,103; Mar. 26.  
Game board. J. Johannessen. 1,738,582; Dec. 10.  
Game board. F. W. Laesch. 1,703,628; Feb. 26.  
Game board. O. A. Martin. Des. 78,216; Apr. 9.  
Game board. C. W. Morgan. Des. 79,976; Nov. 26.  
Game board. R. E. Pasley. Des. 80,068; Dec. 3.  
Game board. H. H. Schmidt. Des. 79,443; Sept. 17.  
Game board. L. Schmitt and B. Reichold. 1,731,353; Oct. 15.  
Game board. Combination basket-ball and baseball. J. B. O'Donnell. 1,712,159; May 7.  
Game board for checkers and the like, Hexagonal. J. F. Beaman. 1,704,819; Mar. 12.  
Game. Card. C. Brown. 1,704,721; Mar. 12.  
Game. Card. L. H. Howard. 1,738,902; Dec. 10.  
Game. Card. J. A. G. Seybold. 1,709,634; Apr. 16.  
Game. Card. W. F. Thorne. 1,705,883; Mar. 19.  
Game control. J. G. Ashburn. 1,714,839; May 28.  
Game court. C. N. Forrest. 1,699,660; Jan. 22.  
Game device. J. W. Calvert. 1,700,154; Jan. 29.  
Game device. M. Doerr. 1,720,946; July 16.  
Game device. J. B. Jacobson. 1,703,240; Feb. 26.  
Game device. T. J. Junker. 1,716,275; June 4.  
Game device. C. R. Kindt and P. H. Enniss. 1,736,447; Nov. 19.  
Game device. R. O. Kussat. 1,716,315; June 4.  
Game device. S. C. Peek. 1,728,770; Sept. 17.  
Game device. H. H. Van Gaasbeek. 1,718,670; June 25.  
Game device. S. Weidenfeld. 1,730,310; Oct. 1.  
Game device, Mechanical. F. Fulgora. 1,708,472; Apr. 9.  
Game, Educational. M. Kies. 1,725,197; Aug. 20.  
Game, Educational. I. and M. Shulman. 1,736,552; Nov. 19.  
Game, Educational card. S. B. Phifer. 1,699,629; Jan. 22.  
Game, Football. V. C. Harkrader. 1,701,002; Feb. 5.  
Game for teaching multiplication. E. Fennell. 1,719,108; July 2.  
Game, Indoor. C. Fowler. 1,712,073; May 7.  
Game, Mechanical ball. G. Smith. 1,725,546; Aug. 20.  
Game, Mechanical ball. J. Young. 1,713,247; May 14.  
Game, Mechanical baseball. D. W. Stokes. 1,724,860; Aug. 13.  
Game, Movie. D. I. Buchanan. 1,699,132; Jan. 15.  
Game package. W. J. Gallagher, and N. E. and W. F. Wolf. 1,734,425; Nov. 5.  
Game, Pole-climbing-contest. E. C. Fritch. Des. 77,683; Feb. 12.  
Game, Race. L. M. E. Rottenburg. 1,697,023; Jan. 1.  
Game, Racing. F. E. Alderdice. 1,709,512; Apr. 16.  
Game, Racing. E. V. Babbitt. 1,702,291; Feb. 19.  
Game, Ring. E. Sas. 1,705,501; Mar. 19.  
Game, Rotary. O. J. Hermann. 1,709,401; Apr. 16.  
Game, School. D. Clinch and A. Blache. 1,701,557; Feb. 12.  
Game, Solitaire bridge-whist. B. B. Marco and A. J. Herzig. 1,705,581; Mar. 19.  
Game, Story. T. A. Loayza. 1,716,069; June 4.  
Game table. J. W. Bishop. 1,705,890; Mar. 19.  
Game table. T. R. Treiber. 1,715,631; June 4.  
Game, Table football. J. H. Andrews. 1,701,655; Feb. 12.  
Game, Tambourine ball. F. F. Contolini. 1,700,251; Jan. 29.  
Game toy. J. Rosenfield. 1,697,612; Jan. 1.  
Game trap. L. A. Beardsley. 1,721,064; July 16.  
Game trap. L. A. Beardsley. 1,728,324; Sept. 17.  
Game with rotatable disk with groove and ball notches mounted above the field and covered with a transparent cover, Society. B. Bauer. 1,707,184; Mar. 26.  
Games and pastimes, Apparatus relating to. E. J. W. Housden. 1,703,672; Feb. 26.  
Games, Apparatus for playing. T. Fagan. 1,718,898; June 25.  
Games, Apparatus for playing table. A. G. Eyles. 1,725,069; Aug. 20.  
Games, Apparatus for use in the practice of ball. J. L. Lawrence. 1,708,796; Apr. 9.  
Games of golf, Appliance for indoor. J. Brown and J. M. Glass. 1,732,574; Oct. 22.  
Games or the like, Apparatus for scoring football. J. M. Hartley. 1,708,503; Apr. 9.  
Gang plate, Sectional. T. A. Both. 1,717,871; June 18.  
Garage. F. E. d'Humy. 1,704,499; Mar. 5.  
Garage. L. S. Joslin. 1,721,453; July 16.  
Garage heater. S. K. Wolff. 1,739,199; Dec. 10.  
Garage infiator. A. J. Michelin. Des. 79,093; July 30.  
Garage outfit. H. H. Brand. 1,711,134; Apr. 30.  
Garbage bag. M. X. Aasen. 1,698,462; Jan. 8.  
Garbage can and preventing development of maggots therein. A. Lowy. 1,719,186; July 2.  
Garbage-handling device. B. W. Reynolds. 1,698,683; Jan. 8.  
Garden chair. E. Scott. Des. 80,055; Dec. 3.  
Garden implement. C. S. Higgins and G. Rome. 1,717,975; June 18.  
Garden implement. C. A. Morgan. 1,699,154; Jan. 15.  
Garden rake. C. J. Rocquin. 1,697,289; Jan. 1.  
Gardening implement. J. G. Rountree. 1,713,396; May 14.  
Garment. C. E. Ansley. 1,729,601; Sept. 24.  
Garment. J. L. Beattie. 1,697,380; Jan. 1.  
Garment. W. B. Carter. 1,724,339; Aug. 13.  
Garment. C. S. Certia. 1,709,204; Apr. 16.  
Garment. H. P. Eckstein. 1,737,923; Dec. 3.  
Garment. M. Goodman. 1,713,121; May 14.  
Garment. N. Gross. 1,721,074; July 16.  
Garment. B. J. Hart. 1,736,594; Nov. 19.  
Garment. J. Haspel. 1,719,700; July 2.  
Garment. N. Hatch. 1,737,882; Dec. 3.  
Garment. E. C. Heyn. 1,718,464; June 25.  
Garment. E. C. Janke. 1,716,061; June 4.  
Garment. M. R. Jones. 1,731,137; Oct. 8.  
Garment. R. H. Kerr. 1,722,753; July 30.  
Garment. M. Kosofsky. 1,709,177; Apr. 16.  
Garment. R. S. Montgommery. 1,703,744; Feb. 26.  
Garment. A. H. Ostermann. 1,736,790; Nov. 26.  
Garment. J. G. Scherf and Z. F. Farmer. 1,704,952; Mar. 12.  
Garment. G. Sferrazza. 1,740,272; Dec. 17.  
Garment. A. Slotoroff. 1,732,245; Oct. 22.  
Garment. S. E. Szakvary. 1,717,474; June 18.  
Garment. A. Wright. 1,703,808; Feb. 26.  
Garment, Adjustable. M. and G. S. Weiner. 1,709,508; Apr. 16.  
Garment and carrier bag, Combination. D. Weisz. 1,702,143; Feb. 12.  
Garment and fastening means therefor. J. W. Taylor. 1,719,632; July 2.  
Garment and life preserver, Swimming. L. L. Wright. 1,731,695; Oct. 15.  
Garment, Apparel. E. C. Duff. 1,730,129; Oct. 1.  
Garment, Apparel. W. Kops. 1,707,020; Mar. 26.  
Garment, Apparel. W. Kops. 1,720,482; July 9.  
Garment, Apparel. W. Kops. 1,721,274; July 16.  
Garment, Athletic. G. W. Cruden. 1,698,012; Jan. 8.  
Garment, Baby. M. Morgan-Evans. 1,730,454; Oct. 8.  
Garment bag. L. H. Boch. 1,700,879; Feb. 5.  
Garment bag. S. J. Johnson. 1,704,680; Mar. 5.  
Garment bag. A. Potdevin. 1,706,041; Mar. 19.  
Garment-bagging device. A. H. Ryan. 1,733,428; Oct. 29.  
Garment, Body. A. J. Slate. 1,736,224; Nov. 19.  
Garment-checking system. G. Posnick. 1,730,382; Oct. 8.  
Garment clasp. A. W. Beaman. 1,716,412; June 11.



- Garment drier. J. D. Smith. 1,739,923; Dec. 17.  
 Garment folder. M. P. Bridges. 1,716,682; June 11.  
 Garment, Four-piece lady's. A. Young. 1,713,731; May 21.  
 Garment hanger. W. H. Batts. 1,740,566; Dec. 24.  
 Garment hanger. O. J. Daigle. 1,697,719; Jan. 1.  
 Garment hanger. W. T. Henry. 1,697,597; Jan. 1.  
 Garment hanger. M. B. Kendis. 1,725,457; Aug. 20.  
 Garment hanger. W. L. Montgomery. 1,730,620; Oct. 8.  
 Garment hanger. W. Patterson. 1,705,203; Mar. 12.  
 Garment hanger. J. W. Robinson. 1,723,079-80; Aug. 6.  
 Garment hanger. G. R. Unkefer. 1,722,609; July 30.  
 Garment hanger. G. Walby. 1,734,549; Nov. 5.  
 Garment hanger. W. T. Wilson. 1,722,122; July 23.  
 Garment hanger, Adjustable. C. W. Nickerson. 1,712,899; May 14.  
 Garment hanger, Extension. J. T. Batts. 1,728,919; Sept. 24.  
 Garment hanger, Safety. B. Weiss. 1,705,276; Mar. 12.  
 Garment, Infant's. A. B. Collingbourne. 1,723,644; Aug. 6.  
 Garment, Knit. W. B. Christy. 1,741,826; Dec. 31.  
 Garment, Lady's. M. Levitt. Des. 77,901; Mar. 5.  
 Garment, Lady's. M. Levitt. Des. 78,037; Mar. 19.  
 Garment, Leg-covering. J. Fink. Re17,525; Dec. 17.  
 Garment or coat. G. Merola. 1,729,787; Oct. 1.  
 Garment package. L. E. La Bombard and M. H. Sidebottom. 1,734,386; Nov. 5.  
 Garment pad. A. G. Sladdin. 1,698,144; Jan. 8.  
 Garment pattern. T. McCampbell. 1,710,098; Apr. 23.  
 Garment press. J. C. Ledbetter. 1,741,996; Dec. 31.  
 Garment press. H. G. Sutton. 1,705,547; Mar. 19.  
 Garment press. J. O. Von Stetten and O. U. Hofmann. 1,736,296; Nov. 19.  
 Garment protector. B. Edelman. 1,741,410; Dec. 31.  
 Garment-retainer bar. M. J. Wisby. 1,704,114; Mar. 5.  
 Garment, Reversible. S. T. Evanove. 1,726,951; Sept. 3.  
 Garment seam, Keenforced. C. E. Oathout. 1,706,461; Mar. 26.  
 Garment, Sleeping. P. A. Luckett. 1,740,028; Dec. 17.  
 Garment-supporting means. E. M. Burns. 1,730,405; Oct. 8.  
 Garment, Tailor's adjustable pre-try-on. S. E. Leeman. 1,732,369; Oct. 22.  
 Garment, Woman's. C. C. Cameron. 1,709,337; Apr. 16.  
 Garments, Adjusting means for. H. B. Kiefer. 1,738,905; Dec. 10.  
 Garments and stockings, Manufacture of foot. L. Teichmann. 1,724,784; Aug. 13.  
 Garter. P. A. Fischer. 1,697,269-71; Jan. 1.  
 Garter. W. Frame. 1,728,859; Sept. 17.  
 Garter. L. Kanowitz. 1,725,278; Aug. 20.  
 Garter. W. E. Piper and G. L. Lawrence. 1,720,291; July 9.  
 Garter. R. O. Stringfellow. 1,723,585; Aug. 6.  
 Garter. M. M. Werner. 1,709,103; Apr. 16.  
 Garter. W. N. Winnett. 1,706,508; Mar. 26.  
 Garter. W. N. Winnett. 1,722,406; July 30.  
 Garter. B. Wolf. 1,737,067; Nov. 26.  
 Garter and making same. M. and L. Auster. 1,728,912; Sept. 24.  
 Garter clasp. J. R. La Vigne. 1,725,714; Aug. 20.  
 Garter, Half-hose. F. E. Browne. 1,700,485; Jan. 29.  
 Garter hook. L. W. Shields. Des. 78,542; May 14.  
 Garter, Invisible. H. M. Herbener. 1,731,100; Oct. 8.  
 Garter packing and exhibiting device. E. M. and H. F. Goldsmith. 1,713,652; May 21.  
 Garter shield. J. D. Allen. 1,724,335; Aug. 13.  
 Gas absorber for products of combustion. J. Bilsky. 1,716,479-80; June 11.  
 Gas accumulator. R. Oppenheim. 1,717,244; June 11.  
 Gas-analysis apparatus. R. H. Krueger. 1,698,887; Jan. 15.  
 Gas analysis, Apparatus for. C. D. Zimmerman. 1,719,864; July 9.  
 Gas analyzer. A. B. Cunningham. 1,719,593; July 2.  
 Gas analyzer. W. Kemp. 1,727,544; Sept. 10.  
 Gas analyzer, Telemetric. M. Bock. 1,732,396; Oct. 22.  
 Gas and air lift operations, Centralized header system for. F. W. Lake. 1,740,106; Dec. 17.  
 Gas and air mixer. T. M. Shevlin. 1,729,278; Sept. 24.  
 Gas and air washing apparatus. S. N. Chew. 1,731,371; Oct. 15.  
 Gas and coal gas, Making mixed water. J. J. O'Connor. 1,733,622; Oct. 29.  
 Gas and coke plant apparatus. F. D. Marshall. 1,704,094; Mar. 5.  
 Gas and hydrocarbon oil for the production of gasoline, Apparatus for combining natural. L. S. Worthington. 1,700,556; Jan. 29.  
 Gas and hydrocarbon oil for the production of gasoline, Combining natural. L. S. Worthington. 1,705,348; Mar. 12.  
 Gas and liquid contact apparatus. W. F. Slater. 1,704,518; Mar. 5.  
 Gas and liquid contact apparatus. F. W. Sperr, jr. 1,715,252; May 28.  
 Gas and liquid contact apparatus and method. F. W. Sperr, jr. 1,715,253; May 28.  
 Gas and liquid separator. H. P. Pinkham. 1,737,680; Dec. 3.  
 Gas and liquid separator. L. L. Westling and M. R. Hickman. 1,734,507; Nov. 5.  
 Gas and liquid treatment. G. F. Hurt. 1,708,179; Apr. 9.  
 Gas and oil burner, Combination. A. W. Morse. 1,741,532; Dec. 31.  
 Gas and oil gas, Making mixed water. W. D. Wilcox. 1,716,676; June 11.  
 Gas and sand trap for oil-well equipment. J. D. Brady. 1,710,606; Apr. 23.  
 Gas apparatus. F. D. Moses. 1,727,892; Sept. 10.  
 Gas, Apparatus for administering. A. B. Dräger. 1,737,575; Dec. 3.  
 Gas, Apparatus for manufacturing water-. H. Nielsen and B. Laing. 1,718,830; June 25.  
 Gas, Apparatus for producing oil. A. Schilling, R. Sachse, D. Liamin, and T. Callaert. 1,710,900; Apr. 30.  
 Gas appliance. A. J. Milligan. 1,705,530; Mar. 19.  
 Gas-blending device. R. B. Stitzer and K. M. Waddell. 1,714,284; May 21.  
 Gas boiler, Producer-. W. B. Chapman. 1,722,495; July 30.  
 Gas bomb adapted to be discharged from aircraft. A. F. and H. A. Nair. 1,723,804; Aug. 6.  
 Gas burner. E. K. Anderson and G. A. Simmons. 1,702,625; Feb. 19.  
 Gas burner. O. J. Antonelli. 1,731,734; Oct. 15.  
 Gas burner. T. G. Arrowsmith. 1,723,988; Aug. 13.  
 Gas burner. G. Baker. 1,700,918; Feb. 5.  
 Gas burner. W. A. Beckett. 1,710,964; Apr. 30.  
 Gas burner. J. H. Beeby. 1,731,090; Oct. 8.  
 Gas burner. J. W. Biers. 1,733,934; Oct. 29.  
 Gas burner. C. A. Brown and A. C. Nielsen. 1,729,149; Sept. 24.  
 Gas burner. J. G. Calvert. 1,715,989; June 4.  
 Gas burner. A. Clark. 1,710,012; Apr. 23.  
 Gas burner. R. Eickworth. 1,710,726; Apr. 30.  
 Gas burner. C. Eisler. 1,704,359; Mar. 5.  
 Gas burner. A. L. R. Ellis. 1,721,381; July 16.  
 Gas burner. S. M. Evans. 1,733,055; Oct. 22.  
 Gas burner. B. A. Geurink. 1,700,886; Feb. 5.  
 Gas burner. C. W. Gibson. 1,712,881; May 14.  
 Gas burner. J. H. Grayson. 1,700,199; Jan. 29.  
 Gas burner. A. J. Hartfield. 1,712,885; May 14.  
 Gas burner. H. M. Heyn. 1,721,484; July 16.  
 Gas burner. G. L. Hileman. 1,731,306; Oct. 15.  
 Gas burner. H. E. Kerr. 1,723,180; Aug. 6.  
 Gas burner. O. B. Kibele. 1,711,794; May 7.  
 Gas burner. M. Kravitz. 1,705,368; Mar. 12.  
 Gas burner. E. Meier. 1,731,722; Oct. 15.  
 Gas burner. C. E. Methudy. 1,706,070; Mar. 19.  
 Gas burner. L. B. Miller. 1,729,677; Oct. 1.  
 Gas burner. J. F. Mustee. 1,739,515; Dec. 17.  
 Gas burner. H. M. Reeves. 1,703,597; Feb. 26.  
 Gas burner. T. A. Sala. 1,710,841; Apr. 30.  
 Gas burner. F. W. Shuell and E. E. Ledbetter. 1,699,032; Jan. 15.  
 Gas burner. P. J. Sonnet. 1,709,197; Apr. 16.  
 Gas burner. A. Stockstrom and I. V. Brumbaugh. 1,714,409; May 21.  
 Gas burner. H. C. Tabler. 1,722,066; July 23.  
 Gas burner. J. V. Thomas and B. D. Balthis. 1,707,451; Apr. 2.  
 Gas burner. B. Thornton. 1,712,410; May 7.  
 Gas burner. R. B. Tyson. 1,699,318; Jan. 15.  
 Gas burner. J. S. Zink. 1,715,051; May 28.  
 Gas burner and the like. M. J. Roberts. 1,725,304; Aug. 20.  
 Gas-burner deflector. C. C. Clark. 1,709,116; Apr. 16.  
 Gas burner, High-pressure. F. Wolff. 1,697,549; Jan. 1.  
 Gas-burner installation. F. H. Wilcox. 1,713,313; May 14.  
 Gas burner, Low-pressure. W. M. Shaw. 1,732,071; Oct. 15.  
 Gas burner, Sectional. J. M. Maxwell. 1,736,207; Nov. 19.  
 Gas burner, Tunnel-type. W. M. Hepburn. 1,714,473; May 21.  
 Gas burners, Making. G. F. Reznor. 1,716,601; June 11.  
 Gas-burning heater. P. V. Olesen. 1,705,532; Mar. 19.  
 Gas-cell fabric. W. C. Calvert. 1,739,479; Dec. 10.  
 Gas-comparison apparatus. R. P. Brown. 1,707,624; Apr. 2.  
 Gas, Compressed. M. G. Farrar. 1,726,018; Aug. 27.  
 Gas compressor. A. Wright. 1,718,725; June 25.  
 Gas container with internal bracing, Collapsible. O. Gelsler. 1,715,829; June 4.  
 Gas-control system. C. F. Kettering and W. A. Chryst. 1,718,238; June 25.  
 Gas converter for furnaces, Coal-. C. Baier. 1,728,913; Sept. 24.  
 Gas, Dehydrating. W. J. Klaiber. 1,740,248; Dec. 17.  
 Gas, Desulphurizing. R. M. Crawford. 1,724,909; Aug. 20.  
 Gas-discharge tube, Preglow. J. M. Schmierer. 1,741,481; Dec. 31.  
 Gas engine. B. F. Augustine. 1,732,147; Oct. 15.  
 Gas engine. J. A. Charter. 1,718,775; June 25.  
 Gas engine. C. Dulché. 1,719,537; July 2.  
 Gas engine. J. Markoe. 1,725,989; Aug. 27.  
 Gas engine. J. Newmann. 1,723,065; Aug. 6.  
 Gas engine. W. Richli. 1,730,093; Oct. 1.  
 Gas engine. C. R. Roche. 1,731,590; Oct. 15.  
 Gas engine. W. F. Stanton. 1,740,790; Dec. 24.  
 Gas engine, Rotary. W. N. McConkey and K. V. Smith. 1,722,057; July 23.  
 Gas engine, Two-cycle. H. Hackman. 1,732,013; Oct. 15.  
 Gas extractor. J. W. Walton. 1,729,973; Oct. 1.  
 Gas fire. K. Aird. 1,736,241; Nov. 19.  
 Gas-flash-light apparatus. E. G. Viksten and K. A. B. Holm. 1,738,160; Dec. 3.



- Gas for hydrogenating carbon and hydro-carbons from gases containing methane and hydrogen, Obtaining hydrogenation. F. Bergius. 1,699,177; Jan. 15.
- Gas from coking coals, Making producer. K. Koller. 1,697,920; Jan. 8.
- Gas from oil and water, Apparatus for separating. V. F. Chancellor and S. L. Calvert. 1,732,499; Oct. 22.
- Gas, Generating. C. W. Andrews and W. B. Chapman. 1,709,335; Apr. 16.
- Gas-generating apparatus. H. C. Elkins. 1,720,321; July 9.
- Gas-generating apparatus. E. L. Fischer. 1,736,586; Nov. 19.
- Gas generator. C. W. Andrews and W. B. Chapman. 1,709,334; Apr. 16.
- Gas generator. W. C. Scheu. 1,697,781; Jan. 1.
- Gas generator, Acetylene-. P. McDonald. 1,712,392; May 7.
- Gas generator, Acetylene-. E. H. Smith. 1,736,673; Nov. 19.
- Gas generator, Acetylene-. J. C. Stovall. 1,740,208; Dec. 17.
- Gas generator, Catalytic. F. Umpleby. 1,738,620; Dec. 10.
- Gas generator, Petrol-air-. W. A. Chamberlain. 1,720,539; July 9.
- Gas governor. G. Keith. 1,722,666; July 30.
- Gas-heated furnace. J. B. Allington. 1,723,716; Aug. 6.
- Gas heater. D. M. Bowen. 1,706,559; Mar. 26.
- Gas heater. W. H. Fry. 1,701,203; Feb. 5.
- Gas heater. W. Kennedy. 1,704,134; Mar. 5.
- Gas heater. H. Lange. Des. 78,032; Mar. 19.
- Gas heater. J. Schoenfeld. 1,725,162; Aug. 20.
- Gas heater. W. L. Sharp. Des. 78,787-93; June 18.
- Gas heater. J. Teller. Des. 78,368; Apr. 23.
- Gas heater, Exhaust-. J. J. Sunday. 1,737,394; Nov. 26.
- Gas heater, Radiant. R. C. Loeser. Des. 78,827-34; June 25.
- Gas heater, Radiant. A. F. Thompson. 1,738,335; Dec. 3.
- Gas igniter, Automatic. D. Raso. 1,724,221; Aug. 13.
- Gas indicator. H. Sewerin. 1,721,977; July 23.
- Gas jet. J. A. Spencer. 1,711,400; Apr. 30.
- Gas lift. W. R. Stuck. 1,731,688; Oct. 15.
- Gas-lift connection for oil wells. C. C. Taylor. 1,737,541; Nov. 26.
- Gas lift in oil wells, Aeration method for establishing. F. W. Lake. 1,740,104; Dec. 17.
- Gas lift in oil wells, Alternate pressure-balancing method for initiating. F. W. Lake. 1,740,103; Dec. 17.
- Gas lift in oil wells, Simultaneous balanced-pressure and injection method for initiating. F. W. Lake. 1,740,101; Dec. 17.
- Gas lift in oil wells, Soaking method for initiating. A. C. Rubel. 1,740,039; Dec. 17.
- Gas-lift operations in oil wells, Rock-over method for establishing. F. W. Lake. 1,740,105; Dec. 17.
- Gas lift, Swabbing method for initiating. F. W. Lake. 1,740,100; Dec. 17.
- Gas-line feed. W. B. Jupp. 1,737,161; Nov. 26.
- Gas-line stopper. F. C. Armbruster. 1,704,161; Mar. 5.
- Gas lines, Protection of. J. L. Anderson. 1,726,940; Sept. 3.
- Gas, Making water. C. W. Andrews. 1,709,107; Apr. 16.
- Gas, Making water. C. Davies, jr. 1,712,983; May 14.
- Gas manufacture. W. E. Trent. 1,716,673; June 11.
- Gas, Manufacturing carbureted water. P. T. Dashiell. 1,738,493; Dec. 3.
- Gas-mask canister, Indicating. M. Yablick. 1,725,893; Aug. 27.
- Gas meter. F. P. Hillard. 1,710,419; Apr. 23.
- Gas meter. A. R. Huettig. 1,699,145; Jan. 15.
- Gas meter. L. Olsen. 1,727,935; Sept. 10.
- Gas meter. H. J. Waddell. 1,708,984; Apr. 16.
- Gas mixer. F. L. Bailey. 1,710,601; Apr. 23.
- Gas mixer. W. R. Brewer. 1,741,280; Dec. 31.
- Gas mixer. L. J. O'Neil and L. B. Becker. 1,730,288; Oct. 1.
- Gas, oil, and water separator. J. E. Kobornik. 1,705,669; Mar. 19.
- Gas or the like venting device. F. P. Berger. 1,737,560; Dec. 3.
- Gas-permeable and waterproofing composition. W. R. Dexter. 1,739,388; Dec. 10.
- Gas preheater. W. H. Campbell. 1,718,330; June 25.
- Gas producer. R. Daase. 1,735,380; Nov. 12.
- Gas producer. C. W. Lummis. 1,707,811; Apr. 2.
- Gas producer. H. M. Smith. 1,724,525; Aug. 13.
- Gas producer, Electrothermal. W. S. Yard and E. N. Percy. 1,703,505; Feb. 26.
- Gas producer for motor vehicles. E. N. Percy. 1,716,084; June 4.
- Gas producer, Pressure. K. Koller. 1,728,684; Sept. 17.
- Gas, Producing. G. L. Reichhelm. 1,699,543; Jan. 22.
- Gas-producing apparatus. L. Brégeaut. 1,707,249; Apr. 2.
- Gas-producing apparatus. J. J. O'Connor. 1,733,621; Oct. 29.
- Gas-producing apparatus. H. F. Smith. 1,699,166; Jan. 15.
- Gas-producing process. J. J. O'Connor. 1,733,623; Oct. 29.
- Gas, Producing water. C. W. Andrews and H. A. Brassert. 1,701,253; Feb. 5.
- Gas producers, Operating molten-slag. H. J. F. Philipon. 1,720,290; July 9.
- Gas production. C. W. Andrews and H. A. Brassert. 1,707,651; Apr. 2.
- Gas production, Odorized. J. H. James. 1,732,516; Oct. 22.
- Gas projectile, Tear-. R. J. Alden. 1,735,522; Nov. 12.
- Gas purification. D. L. Jacobson. 1,741,113; Dec. 24.
- Gas purification and regenerating sulphided alkaline solutions. R. A. Morgen, W. S. Yard, and L. Rosenstein. 1,732,905; Oct. 22.
- Gas-purification process. H. A. Gollmar. 1,719,177; July 2.
- Gas-purification process. H. A. Gollmar. 1,719,762; July 2.
- Gas-purification process. D. L. Jacobson. 1,719,180; July 2.
- Gas-purification process. C. J. Ramsburg. 1,727,559; Sept. 10.
- Gas-purification process. G. E. Seil. 1,701,825; Feb. 12.
- Gas-purification process. F. W. Sperr, jr. 1,734,307; Nov. 5.
- Gas-purification process and apparatus. F. W. Speer, jr. 1,733,321; Oct. 29.
- Gas-purification solution and process. W. H. Hill and D. L. Jacobson. 1,700,982; Feb. 5.
- Gas purifier. F. E. Lammert. 1,709,530; Apr. 16.
- Gas-purifying trap and restoring same. F. Schaefer. 1,714,245; May 21.
- Gas regulator. G. Bornefeld. 1,711,133; Apr. 30.
- Gas regulator, Thermostatic. F. W. Shnell, E. E. Ledbetter and T. J. Tobey. 1,705,787; Mar. 19.
- Gas reservoir. K. Jagschitz and P. M. Kuehn. 1,715,367; June 4.
- Gas-retaining fabric. I. M. Jacobsohn and S. Truscott. 1,706,295; Mar. 19.
- Gas retort. H. Koppers. 1,716,643; June 11.
- Gas saver. C. B. Nelson. 1,729,398; Sept. 24.
- Gas-saving appliance. J. G. Evanko. 1,697,002; Jan. 1.
- Gas-saving attachment. G. P. Miller. 1,707,170; Mar. 26.
- Gas scrubber. G. East. 1,713,175; May 14.
- Gas separator. A. H. Ruby. 1,739,093; Dec. 10.
- Gas set, Automatically-controlled water-. W. Barr. 1,708,375; Apr. 9.
- Gas space heater. H. M. Rowley. 1,703,900; Mar. 5.
- Gas strong in sulphur dioxide, Production of. G. A. Richter. 1,724,421; Aug. 13.
- Gas-supply control for oil burners. W. W. Williams. 1,711,436; Apr. 30.
- Gas-tap control, Automatic. C. A. Jacot. 1,739,595; Dec. 17.
- Gas-tight material, Manufacturing. H. Strobl. 1,709,499; Apr. 16.
- Gas timer for engines. R. E. Christ. 1,715,223; May 28.
- Gas treatment, Effluent. F. A. Canon. 1,716,028; June 4.
- Gas-valve case, Rotary-. A. W. Anderson. 1,713,318; May 14.
- Gas-venting device. E. J. Bloom. 1,734,361; Nov. 5.
- Gas washer. J. C. Hayes, jr. 1,722,466; July 30.
- Gas washer. E. C. Lehnem. 1,732,583; Oct. 22.
- Gas washer. S. Stewart. 1,718,988; July 2.
- Gas-washing apparatus. H. A. Brassert, C. E. Dougan, and E. von Maltitz. 1,707,548; Apr. 2.
- Gases and liquids, Mixing. E. Player. 1,733,101; Oct. 22.
- Gases and the like, Purification of coke-oven. G. Claude. 1,717,761; June 18.
- Gases and vapors, Apparatus for the recovery of. O. L. Barnebey. 1,737,822; Dec. 3.
- Gases and vapors by solid absorbents, Process and apparatus for the separation and recovery of. A. Godel. 1,717,103; June 11.
- Gases and vapors from gas mixtures, Recovering. V. Pantenburg. 1,702,311; Feb. 19.
- Gases, Apparatus for cooling and purifying. F. G. Inglis. 1,707,163; Mar. 26.
- Gases by progressive solubility, Separation of mixed. W. L. De Baulre. 1,722,458; July 30.
- Gases containing nitrogen, hydrogen, and carbon dioxide, Exploiting. W. N. Henderson. 1,698,722; Jan. 15.
- Gases from blast furnaces, Purifying. W. and H. Mathesius. 1,728,130; Sept. 10.
- Gases from organically-combined sulphur, Purifying. F. Fischer. 1,741,834; Dec. 31.
- Gases, Gradual production of. W. E. Kemmerich. 1,729,043; Sept. 24.
- Gases, Isolation of. E. Kurek. 1,708,067; Apr. 9.
- Gases or gas mixtures, Device for stopping back flashings of the flames in pipings for feeding. C. Schraub. 1,701,276; Feb. 5.
- Gases, Process and apparatus for controllably feeding. J. M. Rowland. 1,736,509; Nov. 19.
- Gases rich in ethylene, Obtaining. H. Suida. 1,726,048; Aug. 27.
- Gases, Separation and liquefaction of. W. S. Bowen. 1,704,649; Mar. 5.
- Gases treated with electric arcs, Recovery of reaction products from. O. Eisenhut. 1,726,547; Sept. 3.
- Gases, Utilizing the heat of. C. G. Hawley. 1,726,828; Sept. 3.
- Gases, vapors, and the like, Apparatus for use in administering. H. W. C. Schröder. 1,702,982; Feb. 19.
- Gaseous conduction apparatus. C. G. Smith. 1,714,407; May 21.
- Gaseous conduction device. H. P. Donle. 1,731,889; Oct. 15.



- Gaseous fuel, Apparatus for the production of. F. T. Newitt, S. H. La Plant, and L. I. Turner. 1,715,776; June 4.
- Gaseous mixtures of nitrogen and hydrogen, Making. E. Edwin. 1,723,772; Aug. 6.
- Gaseous mixtures, Separation by liquefaction of complex. G. Claude. 1,724,004; Aug. 13.
- Gasification, Method of and apparatus for. P. d'H. Dressler. 1,698,493; Jan. 8.
- Gasification of solid fuel. J. M. Rusby and C. W. Andrews. 1,720,403; July 9.
- Gasifier. J. C. Moore. 1,723,056; Aug. 6.
- Gasifier device and installation in internal-combustion engines. F. Marburg. 1,700,903; Feb. 5.
- Gasifying oil, Apparatus for. A. Schwarz. 1,734,648; Nov. 5.
- Gasket. C. B. Bailey. 1,730,110; Oct. 1.
- Gasket. C. B. Bailey. 1,738,513; Dec. 10.
- Gasket. T. F. Goodfellow and K. E. Hofmann. 1,698,192; Jan. 8.
- Gasket and attaching same. R. T. Griffiths. 1,705,454; Mar. 12.
- Gasket and making same, Packing. R. T. Griffiths. 1,705,455; Mar. 12.
- Gasket and process of treating. H. C. Loudonbeck. 1,714,033; May 21.
- Gasket and seat therefor. A. J. Schmitt. 1,714,142; May 21.
- Gasket and seat therefor, Self-aligning. A. J. Schmitt. 1,714,141; May 21.
- Gasket closure, Arched. A. Moore. 1,711,176; Apr. 30.
- Gasket, Coupling. C. C. Farmer. 1,703,874; Mar. 5.
- Gasket cutter. J. E. Koontz. 1,719,663; July 2.
- Gasket or washer. P. G. Griffith. 1,715,356; June 4.
- Gaskets, Applying compound paper. B. S. Clark. 1,717,664; June 18.
- Gaskets, Gaseous fuel and air mixing device in the form of. E. C. Kahn. 1,697,528; Jan. 1.
- Gaskets, Making. F. N. Bard. 1,702,957-8; Feb. 19.
- Gasoline, Apparatus for recovering. H. B. Bernard. 1,713,323; May 14.
- Gasoline-dispensing device. P. W. Hodgkinson. 1,715,551; June 4.
- Gasoline fill box, Sealed. E. R. Sage. 1,733,559; Oct. 29.
- Gasoline from mineral oils, Completely separating. A. E. Pew, Jr., and H. Thomas. 1,723,368; Aug. 6.
- Gasoline from solid material, Producing. M. J. Trumble. 1,714,963; May 28.
- Gasoline gauge. H. D. Colman. 1,723,681; Aug. 6.
- Gasoline gauge. H. B. Marshall. 1,717,051; June 11.
- Gasoline gauge. B. A. Peterson. 1,723,438; Aug. 6.
- Gasoline indicator, Dashboard. A. A. Mortensen. 1,736,797; Nov. 26.
- Gasoline purifier. H. W. Kriner. 1,728,568; Sept. 17.
- Gasoline service station. R. McCoy. Des. 77,559; Jan. 22.
- Gasoline solvent, Purifying. C. Macleod. 1,720,604; July 9.
- Gasoline. Treatment of casing-head. E. C. Herthel. 1,733,800; Oct. 29.
- Gasoline vaporizer. J. Dearmann. 1,713,074; May 14.
- Gate. *See*—
- Ash gate. Head and sluice gate.
- Automatic gate. Head gate.
- Bar gate. Hinged gate.
- Bin gate. Hopper gate.
- Car-loading gate. Molasses gate.
- Check gate. Railroad-crossing gate.
- Coal-chute gate. Railroad gate.
- Collapse gate. Railway gate.
- Crossing gate. Reversible end gate.
- Electrical gate. Safety gate.
- End gate. Skip-loading gate.
- Farm gate. Sluice gate.
- Fence gate. Wire gate.
- Gate. E. Brobeck. 1,714,942; May 28.
- Gate. S. G. Metzger. 1,705,990; Mar. 19.
- Gate. F. L. Rose. 1,729,187; Sept. 24.
- Gate. A. Rounsberg and W. Robb. 1,714,820; May 28.
- Gate. H. K. Tabler. 1,707,373; Apr. 2.
- Gate. V. Tilberg. 1,699,168; Jan. 15.
- Gate attachment. P. H. Soss. 1,731,028; Oct. 8.
- Gate and guards for a motion-picture-projection machine. Combined film. A. Dina. Des. 77,940; Mar. 12.
- Gate and operating means therefor. E. E. Kinsey. 1,697,069; Jan. 1.
- Gate and trough, Combination. J. B. Clay. 1,715,493; June 4.
- Gate closer, Automatic. L. J. Kinnard. 1,715,710; June 4.
- Gate construction, End-. G. L. Wackerow. 1,740,755; Dec. 24.
- Gate control, Feed-. O. F. Aplin. 1,736,691; Nov. 19.
- Gate device, Four-speed-transmission. J. H. Hunt and T. H. Millar, Jr. 1,727,646; Sept. 10.
- Gate for dumping trucks, Dumping. W. A. Miller. 1,735,930; Nov. 19.
- Gate for ash hoppers. H. N. Lowenthal. 1,706,797; Mar. 26.
- Gate for dump trucks, Double-acting tail. C. L. Nein. 1,720,429; July 9.
- Gate for race courses, Starting. C. B. Mauchan. 1,741,470; Dec. 31.
- Gate for railroads, Automatic. M. J. Hand. 1,730,972; Oct. 8.
- Gate for railways, Safety. A. Regalmuto. 1,731,908; Oct. 15.
- Gate lock. B. Heyman. 1,740,301; Dec. 17.
- Gate mounting, Turbine-wicket-. D. C. De Vine. 1,712,332; May 7.
- Gate-operating mechanism. F. H. Rogers. 1,725,420-1; Aug. 20.
- Gate-operating mechanism for distributing lorries, Bin-. M. McIntyre. 1,727,172; Sept. 3.
- Gate-operating system. F. Kahler. 1,737,088; Nov. 26.
- Gate-operating mechanism, Hydraulic. W. S. Lee, R. Praehler, and D. Nabow. 1,741,320; Dec. 31.
- Gate plate and controller construction. C. Froesch. 1,709,169; Apr. 16.
- Gate structure. S. A. Moore. 1,711,394; Apr. 30.
- Gate structure, Tail-. C. V. Hallenbeck. 1,706,289; Mar. 19.
- Gate support. H. B. Holbrook. 1,704,001; Mar. 5.
- Gathering and collating machine, Automatic rotary. G. W. Young. 1,706,340; Mar. 19.
- Gauge. *See*—
- Air gauge. Liner gauge.
- Air-pressure gauge. Liquid-level gauge.
- Bit gauge. Micrometer gauge.
- Compression gauge. Mortise gauge.
- Contact making gauge. Oil gauge.
- Coupler gauge. Pressure gauge.
- Cutting gauge. Saw-sharpening gauge.
- Dental gauge. Strain gauge.
- Depth gauge. Table gauge.
- Drill gauge. Tank gauge.
- Edge gauge. Timing gauge.
- Feed gauge. Tire gauge.
- Fire gauge. Tubular gauge.
- Gasoline gauge. Tympan gauge.
- Hem gauge. Water gauge.
- Hydrostatic gauge. Wheel-aligning gauge.
- Ignition-tester gauge.
- Gauge. H. Auckland. 1,713,160; May 14.
- Gauge. W. G. Bayha, J. I. Hellerman, sr., and J. Schall. 1,731,520; Oct. 15.
- Gauge. T. E. Hertlihy. 1,714,782; May 28.
- Gauge. C. E. Johansson. 1,740,695; Dec. 24.
- Gauge. H. W. King. 1,726,495; Aug. 27.
- Gauge. H. J. Leschen. 1,721,600; July 23.
- Gauge. P. H. Mitchell. 1,733,550; Oct. 29.
- Gauge. O. W. Thompson. 1,701,735; Feb. 12.
- Gauge and cooperating cutter. A. M. Wenzel. 1,726,416; Aug. 27.
- Gauge and flow meter, Differential pressure. G. B. Lomer. 1,700,204; Jan. 29.
- Gauge and sediment remover, Combined. H. F. Jones. 1,705,121; Mar. 12.
- Gauge attachment. P. Sholtes. 1,742,103; Dec. 31.
- Gauge attachment, Edger-. P. A. Heglund. 1,733,019; Oct. 22.
- Gauge, bridle, Railroad-. C. D. Baldwin. 1,736,031; Nov. 19.
- Gauge cock. J. E. Shaffer. 1,705,740; Mar. 19.
- Gauge connection. J. D. Durant. 1,721,617; July 23.
- Gauge dial. L. Berge. 1,717,653; June 18.
- Gauge for and method of measuring liquids. J. D. Sarta-koff. 1,720,528; July 9.
- Gauge for applying hinges. E. Flagg. 1,736,709; Nov. 19.
- Gauge for automobiles, Gasoline. H. C. Stearns. 1,730,173; Oct. 1.
- Gauge for automobile gasoline tanks, Dashboard. T. M. Eynon. 1,722,738; July 30.
- Gauge for cloth-cutting machines. F. J. Clark. 1,699,462; Jan. 15.
- Gauge for disk grinders. G. H. Klippel. 1,733,687; Oct. 29.
- Gauge for paper-cutting machines. W. L. Valiquette. 1,737,528; Nov. 26.
- Gauge for platen presses, Feeding. A. Brown. 1,720,655; July 9.
- Gauge for screw threads. J. Hartness. 1,714,780; May 28.
- Gauge for silos, tanks, and cisterns, Depth and contents. H. W. Ainsworth, A. C. Likely, and L. Boardman. 1,699,558; Jan. 22.
- Gauge for slitters, Feed. H. W. Wolfe. 1,731,480; Oct. 15.
- Gauge illuminator, Boiler-. J. R. Townsend. 1,726,168; Aug. 27.
- Gauge-line cleaner. C. A. Anderson. 1,703,703; Feb. 26.
- Gauge or anemometer, Wind. C. Stenbol. 1,708,036; Apr. 9.
- Gauge, Pin and bar assembly. C. H. Allan. 1,710,853; Apr. 30.
- Gauge with handle, Feeler. A. Steinle. 1,726,129; Aug. 27.
- Gauges and the like, Magnifying device for. A. D. Rose. 1,726,314; Aug. 27.
- Gauging apparatus, Track-. R. S. Blair and B. D. Wells. 1,703,289; Feb. 26.
- Gauging device. E. W. Crell. 1,739,711; Dec. 17.
- Gauging instruments and weighing machines, Multiple face and pointer construction for. H. J. Lawrenz. 1,701,412; Feb. 5.
- Gauging mechanism. J. L. Skeehan. 1,701,086; Feb. 5.
- Gauge, Filmed surgical. R. W. Johnson. 1,701,207; Feb. 5.
- Gauging objects, Device for dimensionally-. J. M. Smith. 1,733,320; Oct. 29.



- Gear. G. A. Dalton and J. R. Dunham. 1,697,720; Jan. 1.
- Gear adjustment for motor-vehicle steering gears, Worm-. W. N. Osburn. 1,706,809; Mar. 26.
- Gear. Aeroplane landing. D. J. Brimm. 1,703,222; Feb. 26.
- Gear. Aeroplane landing. K. Henriksen. 1,718,956; July 2.
- Gear. Airplane emergency flotation. C. N. Monteith, F. G. Arnold, and R. J. Minshall. 1,733,973; Oct. 29.
- Gear. Airplane-launching. C. F. Jenkins. 1,706,065; Mar. 19.
- Gear. Air-starting. W. Hefti. 1,734,673; Nov. 5.
- Gear and bearing assembly for Fordson tractors. R. Hamilton. 1,734,375; Nov. 5.
- Gear and wheel puller. W. I. Wooldridge. 1,725,169; Aug. 20.
- Gear and wheel puller, Hydraulic. J. J. Schekall and G. R. Thornton. 1,721,189; July 16.
- Gear arm, Aeroplane landing-. S. S. Varkas. 1,741,964; Dec. 31.
- Gear assembly, Steering-. W. A. Kull. 1,727,778; Sept. 10.
- Gear. Automobile hoisting. E. T. Terfry. 1,731,084; Oct. 8.
- Gear. Backlash-take-up. P. A. Bentley. 1,722,889; July 30.
- Gear. Bevel-wheel. O. A. Zeithammer. 1,725,774; Aug. 27.
- Gear blanks and the like, Forming. L. T. Frederick. 1,737,455; Nov. 26.
- Gear blanks with internal clutch faces, Providing so-called. H. J. Leighton. 1,706,791; Mar. 26.
- Gear carrier and center-sill antispreader, Draft-. M. S. Johnson. 1,709,078; Apr. 16.
- Gear casing for corn huskers. A. Rosenthal. 1,701,195; Feb. 5.
- Gear-change means, Preselective constant-mesh. A. C. Peterson. 1,730,380; Oct. 8.
- Gear, Change-speed. G. Fries. 1,700,612; Jan. 29.
- Gear, Change-speed. C. G. Garrard. 1,709,345; Apr. 16.
- Gear, Change-speed. A. M. Kamper. 1,721,123; July 16.
- Gear, Change-speed. V. Valletta. 1,719,032; July 2.
- Gear, Change-speed tooth. B. Wittkuhns. 1,724,159; Aug. 13.
- Gear-changing mechanism. E. J. Rodier. 1,736,277; Nov. 19.
- Gear. Combined motor and reduction. V. G. Apple. 1,728,224; Sept. 17.
- Gear. Composite. F. J. Banister. 1,725,124; Aug. 20.
- Gear control, Valve-. H. J. Claxton. 1,734,795; Nov. 5.
- Gear-cutting machine. A. H. Candee and M. H. Johanson. 1,732,633; Oct. 22.
- Gear-cutting machine. H. D. Colman. 1,712,256; May 7.
- Gear-cutting machine. H. D. Colman. 1,737,217; Nov. 26.
- Gear-cutting machinery. J. H. Barnes. 1,724,168; Aug. 13.
- Gear device, Change-. G. Blackstock. 1,728,325; Sept. 17.
- Gear device, Change-. G. Blackstock. 1,733,002; Oct. 22.
- Gear. Double helical or double spiral. P. Böttcher. 1,702,860; Feb. 19.
- Gear, Draft. H. Barnard and J. R. Cardwell. 1,702,032; Feb. 12.
- Gear, Draft. J. R. Cardwell. 1,702,037; Feb. 12.
- Gear, Draft. J. R. Cardwell. 1,709,895; Apr. 23.
- Gear, Draft. W. H. Cotton. 1,702,040; Feb. 12.
- Gear, Draft. W. H. Cotton. 1,702,932; Feb. 19.
- Gear, Draft. W. H. Cotton. 1,705,635; Mar. 19.
- Gear, Draft. W. H. Cotton. 1,733,527; Oct. 29.
- Gear, Draft. J. E. Forsyth. 1,739,134; Dec. 10.
- Gear, Draft. H. C. Priebe. 1,707,138; Mar. 26.
- Gear, Draft. D. F. Sproul. 1,720,927; July 16.
- Gear, Draft. C. H. Tomlinson. 1,736,947; Nov. 26.
- Gear, Draft. H. R. Tucker. 1,739,876; Dec. 17.
- Gear. Differential. E. Wildhaber. 1,730,183-4; Oct. 1.
- Gear. Draw-out-type electric switch. G. Pailin. 1,709,281; Apr. 16.
- Gear drive, Flexible-. G. F. Eckart. 1,728,401; Sept. 17.
- Gear drive for electromechanical phonographs, Planet-. W. Rebikoff. 1,740,315; Dec. 17.
- Gear drive for stern-wheel boats, Reduction. C. E. Ward. 1,721,239; July 16.
- Gear. Electric motor-driven intermittent driving. J. L. Kimball. 1,740,436; Dec. 17.
- Gear. Electric switch. F. Coates and J. Mirrey. 1,729,538; Sept. 24.
- Gear. Electrical switch. T. C. Christianson. 1,732,713; Oct. 22.
- Gear. Elevator-door-locking. T. H. J. Simmons and E. Clemence. 1,736,805; Nov. 26.
- Gear-finding machine. O. C. Kavle and L. W. Moulton. 1,698,953; Jan. 15.
- Gear-finishing machine. H. D. Tanner. 1,722,544; July 30.
- Gear, Flexible. C. Bethel. 1,725,127; Aug. 20.
- Gear, Flexible. G. M. Eaton. 1,739,130; Dec. 10.
- Gear for aeroplanes, Landing. H. T. Booth. 1,705,896; Mar. 19.
- Gear for aeroplanes, Snow-landing. M. Adamtchik and G. Massera. 1,698,808; Jan. 15.
- Gear for aircraft, Control. C. F. Uwins. 1,702,184; Feb. 12.
- Gear for aircraft, Landing. F. H. Ordidge and D. L. H. Williams. 1,727,077; Sept. 3.
- Gear for airplanes, Landing. E. Daland. 1,735,852; Nov. 19.
- Gear for auto busses, trucks, etc., Removable. T. S. Kemble. 1,717,511; June 18.
- Gear for automobiles, Suspension, steering gear, and braking. P. Spire and L. Rolland. 1,703,792; Feb. 26.
- Gear for compressors, Driving. J. R. Replogle. 1,718,196; June 18.
- Gear for cotton cleaners, Change-speed. T. W. Aven. 1,732,550; Oct. 22.
- Gear for disintegrators, agitators, mixers and kneaders, Feed. W. Rinau. 1,721,471; July 16.
- Gear for electric winches, Brake. P. Wilsing. 1,738,811; Dec. 10.
- Gear for internal-combustion engines, Valve. F. B. Halford. 1,721,341; July 16.
- Gear for lifeboats, Lowering. R. Libani. 1,701,007; Feb. 5.
- Gear for motor vehicles and for other purposes, Driving. G. Constantinesco. 1,715,816; June 4.
- Gear for motor vehicles, Differential. J. Mlinko. 1,704,803; Mar. 12.
- Gear for motor vehicles, Running. A. Seybert. 1,705,881; Mar. 19.
- Gear for overhead engine cam shafts, Transmission. G. R. Inshaw. 1,741,570; Dec. 31.
- Gear for piston engines, Valve. P. F. Lemasson and E. H. Martin. 1,721,457; July 16.
- Gear for reciprocating steam engines, Slide-valve. F. Tolkien. 1,723,449; Aug. 6.
- Gear for releasing suspended bodies and members under tension, Bomb-dropping and like release. F. H. Page. 1,725,473; Aug. 20.
- Gear for ships, Electric steering. R. Elsässer. 1,729,869; Oct. 1.
- Gear for starting and controlling electric motors, Switch. J. A. Hirst. 1,725,079; Aug. 20.
- Gear for steam locomotives and like engines, Cam-operated balanced valve. J. Kupka. 1,738,435; Dec. 3.
- Gear for toy wagons, Running. A. C. Carlson. 1,728,925; Sept. 24.
- Gear for trailed vehicles, Steering. A. Arato. 1,728,818; Sept. 17.
- Gear for washing machines, Control. W. Banks and W. Brooke. 1,716,679; June 11.
- Gear, Friction-roller transmission. W. Zadow. 1,737,695; Dec. 3.
- Gear-hobber control. W. F. Zimmermann. 1,707,546; Apr. 2.
- Gear, Hoisting. C. L. Mundy. 1,727,724; Sept. 10.
- Gear housing. H. E. Blood. 1,739,779; Dec. 17.
- Gear housing and bearing. S. U. Hamaker. 1,699,565; Jan. 22.
- Gear housing for washing machines. S. E. Schroeder. 1,739,616; Dec. 17.
- Gear housings, Oil seal for. R. A. Whittingham. 1,699,385; Jan. 15.
- Gear, Hydraulic change. F. Waap. 1,701,901; Feb. 12.
- Gear, Hydraulic-transmission. H. Rieseler. 1,727,903; Sept. 10.
- Gear, Landing. W. A. Aberg. 1,732,209; Oct. 15.
- Gear, Landing. E. G. Schleicher. 1,705,210; Mar. 12.
- Gear lock, Transmission-. W. A. Reville. 1,719,520; July 2.
- Gear. Locomotive valve. V. R. Stewart. 1,720,454; July 9.
- Gear. Locomotive valve. N. Vanderhorst. 1,697,097; Jan. 1.
- Gear mechanism, Automatic reversing. J. Moscini. 1,732,610; Oct. 22.
- Gear mechanism, Change-. W. F. Groene. 1,737,881; Dec. 3.
- Gear mechanism, Locomotive reversing. H. Helmholz and C. C. Bertram. Re17,473; Oct. 29.
- Gear mechanism, Transmission. C. E. F. Ahlm. 1,720,989; July 16.
- Gear members. U. Belati. 1,701,222; Feb. 5.
- Gear, Molded. A. J. Bastian. 1,700,605; Jan. 29.
- Gear mounting, Brake-. V. H. Harbert. 1,717,027; June 11.
- Gear mounting, Brake-. A. F. O'Connor. 1,720,233-4; July 9.
- Gear. Oil-immersed electric switch. A. Allan and H. W. Clothier. 1,720,586; July 9.
- Gear, Power-operated steering. J. H. Cooper. 1,719,875; July 9.
- Gear, Power reverse. M. H. Roberts. 1,712,120; May 7.
- Gear, Power-transmission. L. Desrochers. 1,702,688; Feb. 19.
- Gear, Power-transmission. G. Weis. 1,740,756; Dec. 24.
- Gear puller. E. G. Chipman. 1,708,355; Apr. 9.
- Gear puller. R. A. Kaplan. 1,709,913; Apr. 23.
- Gear puller. E. G. Livesay. 1,715,506; June 4.
- Gear, Reducing. A. L. Roberts. 1,707,877; Apr. 2.
- Gear, Retractable landing. M. C. Baumann. 1,718,189; June 18.
- Gear, Reversing. R. Meyer. 1,726,037; Aug. 27.
- Gear rim and making the same, Metal. C. F. Ball. 1,736,758; Nov. 19.
- Gear, Scraper draft. A. P. Armington. 1,714,118; May 21.
- Gear selecting and changing device. E. F. Pendexter. 1,709,148; Apr. 16.



- Gear, Self-oiling bobbing. H. Crowder. 1,715,536; June 4.
- Gear set. H. Levine. 1,704,298; Mar. 5.
- Gear shift. A. C. Nickell. 1,698,199; Jan. 8.
- Gear shift, Automatic. W. Gnehm. 1,727,594; Sept. 10.
- Gear shift, Automatic. F. C. Spahn. 1,714,194; May 21.
- Gear shift for automobiles, Automatic. F. S. Cartwright. 1,723,542; Aug. 6.
- Gear shift for automobiles, Mechanical. J. H. Lock. 1,725,151; Aug. 20.
- Gear shift for motor vehicles. A. P. Tredway. 1,715,178; May 28.
- Gear-shift-lever guide. R. E. Ashton. 1,740,916; Dec. 24.
- Gear-shift-lever knob. H. A. Drolette, S. Herne, and W. J. Harrington. 1,710,452; Apr. 23.
- Gear-shift-lever lock. C. L. Johnson. 1,725,003; Aug. 20.
- Gear shift, Mechanical. J. L. Atkinson. 1,715,734; June 4.
- Gear-shift mechanism. D. G. Lilley. 1,712,708; May 14.
- Gear-shift mechanism. B. F. Schmidt. 1,721,637; July 23.
- Gear-shift mechanism. B. F. Schmidt. 1,736,330; Nov. 19.
- Gear-shift mechanism for motor vehicles, Four-speed. B. F. Schmidt. 1,721,672; July 23.
- Gear shift, Pneumatically-operated mechanical. H. T. Goss. 1,704,245; Mar. 5.
- Gear shift, Progressive and selective. B. F. Schmidt. 1,699,814; Jan. 22.
- Gear-shifter mechanism. W. G. Stevens, jr. 1,738,462; Dec. 3.
- Gear shifter, Vacuum-operated. D. F. Linsley. 1,733,502; Oct. 29.
- Gear-shifting apparatus. J. J. Lildal. 1,740,823; Dec. 24.
- Gear-shifting apparatus. W. F. Mottier. 1,727,663; Sept. 10.
- Gear-shifting device, Lockable. H. J. Taylor. 1,736,059; Nov. 19.
- Gear-shifting device, Mechanical. F. M. Bartelme. 1,700,874; Feb. 5.
- Gear-shifting mechanism. J. Kirkeby. 1,731,819; Oct. 15.
- Gear-shifting mechanism. W. F. Mottier. 1,734,441; Nov. 5.
- Gear-shifting mechanism. A. G. Wagner. 1,715,441; June 4.
- Gear-shifting mechanism, Automatic. C. M. Savrda. 1,739,471; Dec. 10.
- Gear-shifting mechanism for motor vehicles. W. C. Melchor. 1,736,320; Nov. 19.
- Gear, Speed-change. A. B. Clark. 1,707,785; Apr. 2.
- Gear speed-increasing and speed-reducing standard device in which the distance between centers and the gear ratio are variable, Spur-. R. Schweich. 1,720,971; July 16.
- Gear, Speed-reducing. M. J.-B. Barbarou. 1,702,244; Feb. 19.
- Gear, Speed-reducing. C. Waseige. Re17,266; Apr. 9.
- Gear, Speed-reducing. C. G. Wennerstrom. 1,725,034; Aug. 20.
- Gear, Split switching. C. F. Jenkins. 1,740,354; Dec. 17.
- Gear stabilizer, Steering-. H. E. Weber. 1,738,857; Dec. 10.
- Gear, Stamped drive. L. Berge. 1,727,805; Sept. 10.
- Gear, Starter. H. Ford. 1,729,421; Sept. 24.
- Gear, Steam-engine reversing. J. C. Rosenberg. 1,705,626; Mar. 19.
- Gear, Steering. A. G. Henricks. 1,715,656; June 4.
- Gear, Steering. W. Noble. 1,725,737-8; Aug. 20.
- Gear support for derrick masts, Swinging. J. V. Davis. 1,713,953; May 21.
- Gear support, Timing-. A. W. Pope, jr. 1,719,307; July 2.
- Gear, Switch. D. R. Davies. 1,709,780; Apr. 16.
- Gear, Switch-control. C. I. Vermilye. 1,724,119; Aug. 13.
- Gear teeth, Machine and profiling. C. H. Schurr. 1,712,095; May 7.
- Gear, Timing. A. J. Baker. 1,735,229; Nov. 12.
- Gear, Transmission. B. V. Clark. 1,737,451; Nov. 26.
- Gear transmission. Y. Kikuchi. 1,735,578; Nov. 12.
- Gear, Transmission. K. Maybach. 1,719,188; July 2.
- Gear, Transmission. H. Schneider. 1,697,253; Jan. 1.
- Gear, Transmission. O. O. Storle. 1,725,313; Aug. 20.
- Gear transmission, Automatic. C. R. Short. 1,701,395; Feb. 5.
- Gear transmission, Change-speed-. H. L. Hoy. 1,739,308; Dec. 10.
- Gear, Unidirectional driving. E. R. Loram. 1,710,631; Apr. 23.
- Gear, Valve. E. Grieshaber. 1,735,045; Nov. 12.
- Gear, Valve. A. M. Nixon. 1,727,782; Sept. 10.
- Gear, Variable-speed. G. J. Abbott. 1,738,552; Dec. 10.
- Gear, Variable-speed. W. Jacobs. 1,724,202; Aug. 13.
- Gear, Variable-speed. W. Jacobs. 1,741,631; Dec. 31.
- Gear, Variable-speed. S. Rushforth. 1,727,447; Sept. 10.
- Gear, Variable-speed. O. L. Whittle. 1,718,267; June 25.
- Gear, Variable-speed epicyclic. A. Aepli. 1,702,923; Feb. 19.
- Gear, Wave-driven pumping. G. Borgatta. 1,712,288; May 7.
- Gear wheel. H. S. Lewis and C. Kachel. 1,705,931-3; Mar. 19.
- Gear wheel, Flexible. C. Bethel. 1,705,709; Mar. 19.
- Gear wheel, Flexible. C. Bethel. 1,729,435; Sept. 24.
- Gear wheel, Flexible. C. Bethel. 1,735,105; Nov. 12.
- Gear wheel, Flexible. G. H. Fletcher. 1,741,984; Dec. 31.
- Gear wheel, Flexible. L. Hornbostel. 1,729,442; Sept. 24.
- Gear wheel, Flexible. G. H. Koch. 1,740,656; Dec. 24.
- Gear-winding machine. A. J. Bastian. 1,697,158; Jan. 1.
- Gear, Worm. P. H. Buch. 1,727,046; Sept. 3.
- Gear worm, Forged. A. L. Eicher. 1,723,773; Aug. 6.
- Gearing. E. L. Fickett. 1,719,803; July 2.
- Gearing. A. T. Kasley. 1,738,251; Dec. 3.
- Gearing. J. A. McGrew. 1,703,942; Mar. 5.
- Gearing. A. R. Ridderstrom. 1,721,054; July 16.
- Gearing. C. E. Ruf. 1,724,518; Aug. 13.
- Gearing, Chain. J. P. Hume. 1,703,530; Feb. 26.
- Gearing, Change-speed. J. H. Hand. 1,713,080; May 14.
- Gearing, Change-speed. J. H. Hand. 1,731,338; Oct. 15.
- Gearing, Change-speed. F. H. Royce. 1,731,151; Oct. 8.
- Gearing, Change-speed. C. R. Short. 1,705,032; Mar. 12.
- Gearing for driving a rotary compressor on an internal-combustion engine. A. H. R. Fedden. 1,729,509; Sept. 24.
- Gearing for four-wheel-drive constructions, Differential. H. McFarlane. 1,716,073; June 4.
- Gearing for hoisting drums. A. L. Dodge. 1,706,109; Mar. 19.
- Gearing for motion-picture apparatus, Intermittent. R. P. De Vault. Re17,443; Sept. 24.
- Gearing for revolving spindles. J. Degerth. 1,721,433; July 16.
- Gearing for sound-reproducing machines. I. Hosoi. 1,730,427; Oct. 8.
- Gearing for tapping machines, Reversing. J. Brandstetter. 1,715,637; June 4.
- Gearing, Friction ball. J. Arter. 1,718,846; June 25.
- Gearing, Friction-drive reduction. W. B. Bronander. 1,737,205; Nov. 26.
- Gearing, Lock differential. N. L. Todd. 1,723,901; Aug. 6.
- Gearing, Motor reduction. W. B. Bronander. 1,699,653; Jan. 22.
- Gearing of the sun and planet wheel type, Variable-velocity ratio. E. J. de Normanville. 1,717,097; June 11.
- Gearing, Power-transmission. R. L. Dennison. 1,738,695; Dec. 10.
- Gearing, Reversible reduction. C. J. Lamb. 1,722,302; July 30.
- Gearing, Reversing. H. A. Tuttle. 1,727,624; Sept. 10.
- Gearing, Speed-reduction. E. P. du Pont. 1,698,720; Jan. 15.
- Gearing, Speed-reduction. E. P. du Pont. 1,715,908; June 4.
- Gearing, Tractor-truck. J. A. McGrew. 1,710,372; Apr. 23.
- Gearing, Tractor-truck. J. A. McGrew. 1,717,054; June 11.
- Gearing, Transmission. C. E. F. Ahlm. 1,720,988; July 16.
- Gearing, Transmission. C. E. F. Ahlm. 1,733,769; Oct. 29.
- Gearing, Transmission. G. C. Carhart. 1,724,451; Aug. 13.
- Gearing, Transmission. F. P. Kersten. 1,724,714; Aug. 13.
- Gearing transmission. C. E. Starr. 1,731,548; Oct. 15.
- Gearing, Transmission. W. H. Wyman. 1,733,290; Oct. 29.
- Gearing, Variable-speed. C. G. Garrard. 1,709,346; Apr. 16.
- Gearing, Variable-speed and reversing. E. Richardson. 1,710,649; Apr. 23.
- Gearing, Variable-speed transmission. H. E. Brown. 1,740,725; Dec. 24.
- Gearing, Worm. O. R. Humphreys. 1,707,724; Apr. 2.
- Gears and the like, Lap for truing. A. W. Copland and M. I. Mathewson. 1,698,214; Jan. 8.
- Gears and the like, Manufacture of. H. E. Warren. 1,731,117; Oct. 8.
- Gears and the like, Truing. A. W. Copland and M. I. Mathewson. 1,698,215; Jan. 8.
- Gears, Device for taking up the play in. M. Maag. 1,718,469; June 25.
- Gears for transferring rotary motion from a driving to a driven shaft, Change-speed or change-speed and reversing. H. Krauss. 1,706,883; Mar. 26.
- Gears, Forming. O. E. Hovey. 1,716,637; June 11.
- Gears, Forming tapered. E. Wildhaber. 1,725,037; Aug. 20.
- Gears, Friction draft. J. J. Tatum. 1,730,635; Oct. 8.
- Gears, Generating hypoid. E. Wildhaber. 1,705,887; Mar. 19.
- Gears, Laying out. H. D. Croft. 1,710,349; Apr. 23.
- Gears, Maneuvering device with valve. H. Becker. 1,716,999; June 11.
- Gears, Method of and apparatus for grinding worm. B. M. W. Hanson. 1,708,570; Apr. 9.
- Gears, Method of and machine for generating. J. E. Gleason, E. Finsen, and R. Webster. 1,722,464; July 30.
- Gears, Operating mechanism for transmission. C. M. Hibbets. 1,719,369; July 2.
- Gears, Producing. A. H. Candee. 1,733,399; Oct. 29.
- Gears, Producing. E. Wildhaber. 1,726,051; Aug. 27.
- Gears, Producing bevel. E. Wildhaber. 1,727,739; Sept. 10.
- Gears, Producing bevel. E. Wildhaber. 1,733,326; Oct. 29.
- Gears, Producing hypoid. E. Wildhaber. 1,705,886; Mar. 19.
- Gears, Producing hypoid. E. Wildhaber. 1,726,091; Aug. 27.
- Gears, Reinforced friction member for draft. H. Barnard. 1,726,796; Sept. 3.



- Gears, Synchronizing motor-vehicle transmission. W. T. Charles. 1,702,721; Feb. 19.
- Gears, Truing. A. W. Copland and M. I. Mathewson. 1,698,213; Jan. 8.
- Gelatin insoluble and its application to various arts, Rendering. S. de Procoudine-Gorsky and N. Poznaniakow. 1,709,569; Apr. 16.
- Gelatin sheets and surfaces therefor, Forming. E. M. Kratz. 1,727,611; Sept. 10.
- Gelatine, Communiting. A. Neff. 1,735,356; Nov. 12.
- Gels with a solid material, Impregnation of porous. H. N. Holmes. 1,739,307; Dec. 10.
- Gels with metals or other insoluble material, Impregnation of porous. H. N. Holmes. 1,739,306; Dec. 10.
- Gem or stone setting. V. Martinkevich. 1,740,191; Dec. 17.
- Gem setting. F. E. Farnham. 1,710,684; Apr. 30.
- Gem setting. G. A. Guyot. 1,710,660; Apr. 23.
- Generating accurately-finished gears. E. R. Fellows. 1,698,882; Jan. 15.
- Generating and amplifying system, High-frequency. H. Pauli. 1,741,710; Dec. 31.
- Generating and storing electricity, System of. J. B. Replogle and J. M. Lea. 1,738,540; Dec. 10.
- Generating apparatus, Sound-. T. Lindenberg. 1,727,437; Sept. 10.
- Generating electric energy, Apparatus for. W. D. Fletcher. 1,713,649; May 21.
- Generating foam, mixtures of liquid and gaseous substances, mixtures of different liquids and different gases, or emulsions. R. Schnabel. 1,740,840; Dec. 24.
- Generating hydrogen. R. E. Battig. 1,726,877; Sept. 3.
- Generating infra-red rays, Apparatus for T. J. Barrett. 1,715,634; June 4.
- Generating oil gas, Apparatus for. A. E. Hodgson and N. C. Jones. 1,739,461; Dec. 10.
- Generating plant, Automatic. A. F. Brotz. 1,734,557; Nov. 5.
- Generating plant, Automatic. E. R. Witzel. 1,704,996; Mar. 12.
- Generating steam, Apparatus for. C. Schwartz. 1,698,825; Jan. 15.
- Generating steam, especially high-pressure steam, Method and apparatus for. S. Löffler. 1,740,254; Dec. 17.
- Generating unit, Electric power. H. D. Gumpfer. 1,723,851; Aug. 6.
- Generation of electric current for electric welding. J. H. S. Mawdsley. 1,721,348; July 16.
- Generation of short electrical waves, Apparatus for the. G. Von Arco. 1,708,530; Apr. 9.
- Generation of steam for locomotives, Apparatus for indirect. O. H. Hartmann. 1,719,010; July 2.
- Generator: See—
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| Acetylene generator.     | Pressure-fluid generator. |
| Acetylene-gas generator. | Ray generator.            |
| Combustion generator.    | Sound generator.          |
| Curative-ray generator.  | Steam generator.          |
| Electric generator.      | Template generator.       |
| Fluid generator.         | Vapor or steam generator. |
| Gas generator.           | Water-gas generator.      |
| Heat generator.          | Welding generator.        |
| Magneto generator.       | Wind-driven generator.    |
| Oscillation generator.   | Windmill generator.       |
| Oscillator generator.    |                           |
- Generator. S. O. Lange. 1,701,927; Feb. 12.
- Generator. B. M. Leece. 1,701,047; Feb. 5.
- Generator and electric system including the same, Alternating-current. F. W. Gay. 1,739,136; Dec. 10.
- Generator, carburetor, preheater, and controller, Combined gas. F. C. Lindsey. 1,722,804; July 30.
- Generator-control system. P. B. Steed. 1,710,748; Apr. 30.
- Generator cover. F. A. Whitten. 1,706,506; Mar. 26.
- Generator drive for railroad cars and the like. C. W. Dake. 1,706,562-3; Mar. 26.
- Generator for superheated steam. F. W. Ellyson. 1,704,038; Mar. 5.
- Generator for use in heating systems, Steam or hot-water. E. R. Williams. 1,713,729; May 21.
- Generator heater. J. and A. C. Sladky. 1,712,123; May 7.
- Generator heating unit, Steam-. J. B. Odell. 1,710,943; Apr. 30.
- Generator mount, Retractable. C. K. Morton. 1,718,795; June 25.
- Generator suspension apparatus. P. Parke and F. O. Marshall. 1,725,824; Aug. 27.
- Generator system, Multiple-unit. A. F. Brotz. 1,707,296; Apr. 2.
- Generator tubes, Making. J. and A. C. Sladky. 1,718,763; June 25.
- Generator-voltage regulator. C. P. West. 1,710,755; Apr. 30.
- Generators, Brush-adjusting device for. D. A. MacGillivray. 1,733,129; Oct. 29.
- Generators, Carbide agitator for acetylene. H. G. Irwin. 1,727,981; Sept. 10.
- Generators, Drive and control of motor. A. Thomas. 1,721,677; July 23.
- Generators, System of sound. C. P. Madsen. 1,705,733; Mar. 19.
- Generators, Utilizing the heat of the generator of super-pressure steam. W. Stender. 1,728,375; Sept. 17.
- Geographical educator. C. B. Roberts. 1,739,861; Dec. 17.
- Geological formations, Method and apparatus for locating. J. C. Karcher. 1,706,066; Mar. 19.
- Geometrical instrument. O. A. E. Hoyer. 1,740,597; Dec. 24.
- Germinator or hydrosometer, Grain. G. T. Markey and J. B. Olson. 1,724,949; Aug. 20.
- Gib, Adjustable. A. Wallace. 1,725,725; Aug. 20.
- Gib and wedge key for key bolts. R. V. Northey. 1,737,091; Nov. 26.
- Gig. E. S. David. 1,727,812; Sept. 10.
- Gill box, Intersecting-. F. G. Bernhardt. 1,727,270; Sept. 3.
- Gin for cotton and all fibrous materials. A. Libert. 1,717,569; June 18.
- Ginning cotton. W. L. Hancock. 1,725,268; Aug. 20.
- Gins, Breast lifter for. B. C. Woodford and J. Behle. 1,701,201; Feb. 5.
- Girdle. M. Lachman. 1,741,423; Dec. 31.
- Girdle and collaret, Swimmer's. M. J. D. Beaton. 1,708,532; Apr. 9.
- Girdle, Hip and abdominal supporting. E. M. Reese. 1,720,147; July 9.
- Girdle, Lady's. E. Hauser. 1,715,234; May 28.
- Gland for machine shafts. K. Frey. 1,722,135; July 23.
- Gland runner. J. F. Johnson. 1,729,444; Sept. 24.
- Glare exterminator. L. B. Parker. 1,729,051; Sept. 24.
- Glare-modifying means for vehicle head lamps. L. M. Bowman. 1,722,366; July 30.
- Glare protector. J. R. Caldwell. 1,717,185; June 11.
- Glare shield. P. J. Groenestein. 1,697,502; Jan. 1.
- Glare shield. O. L. McKinley. 1,737,934; Dec. 3.
- Glare shield for vehicles. W. N. Shelton. 1,735,699; Nov. 12.
- Glass: See—
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| Boiler gauge glass.      | Flexible glass.  |
| Bubble or blister glass. | Laminated glass. |
| Dimmer glass.            | Plate glass.     |
| Drinking glass.          | Sheet glass.     |
- Glass. R. Haley. Des. 79,517; Oct. 1.
- Glass. W. G. Taylor. 1,721,979; July 23.
- Glass and apparatus therefor, Production of ground and polished plates of. F. B. Waldron. 1,729,498; Sept. 24.
- Glass and batches therefor, Producing heat-absorbing. W. H. Rising. 1,737,686; Dec. 3.
- Glass and decolorizing and fining the same. W. C. Taylor. 1,726,635; Sept. 3.
- Glass and making the same, Heat-absorbing borosilicate. W. H. Rising. 1,737,685; Dec. 3.
- Glass and producing the same, Article of. F. Meyer. 1,713,854; May 21.
- Glass and producing the same, Laminated. J. L. Drake. 1,701,147; Feb. 5.
- Glass and producing the same, Laminated. J. W. H. Randall. 1,727,937; Sept. 10.
- Glass apparatus. L. D. Soubier. 1,710,789; Apr. 30.
- Glass apparatus, Downflow sheet-. E. T. Ferngren. 1,739,960; Dec. 17.
- Glass, Apparatus for blowing. J. A. Milliken. 1,741,708; Dec. 31.
- Glass, Apparatus for drawing. A. E. Spinasse. 1,722,483; July 30.
- Glass, Apparatus for drawing. J. A. Sweet. 1,698,378; Jan. 8.
- Glass, Apparatus for drawing sheet. G. G. Roberts. 1,700,420; Jan. 29.
- Glass, Apparatus for feeding molten. K. E. Peiler. 1,727,379; Sept. 10.
- Glass, Apparatus for feeding molten. K. E. Peiler. 1,735,837; Nov. 12.
- Glass, Apparatus for feeding molten. K. E. Peiler. 1,738,923; Dec. 10.
- Glass, Apparatus for feeding molten. L. D. Soubier. 1,739,873; Dec. 17.
- Glass, Apparatus for making composite. H. K. Hitchcock. 1,734,379-80; Nov. 5.
- Glass, Apparatus for making composite. W. O. Lytle. 1,698,371; Jan. 8.
- Glass, Apparatus for making composite. W. O. Lytle. 1,740,989; Dec. 24.
- Glass, Apparatus for making plate. C. E. Henderson. 1,716,812; June 4.
- Glass, Apparatus for obtaining charges of molten. K. E. Peiler. 1,732,771; Oct. 22.
- Glass, Apparatus for polishing plate. J. P. Crowley. 1,733,295; Oct. 29.
- Glass, Apparatus for rolling. J. H. Fox. 1,732,042; Oct. 15.
- Glass, Apparatus for surfacing plate. J. P. Crowley. 1,735,599; Nov. 12.
- Glass, Apparatus for surfacing sheet. J. P. Crowley. 1,740,006; Dec. 17.
- Glass apparatus, Sheet-. J. L. Drake. 1,698,492; Jan. 8.
- Glass apparatus, Sheet-. L. C. Mambourg. 1,731,249; Oct. 15.
- Glass apparatus, Width-maintaining means for sheet-. J. M. Neenan and J. P. Weaver. 1,701,161; Feb. 5.
- Glass articles, Finishing. J. Bailey. 1,721,983; July 23.
- Glass articles, Frosting. R. D. Smith. 1,740,376; Dec. 17.
- Glass articles, Machine for the manufacture of. S. Hunt. 1,722,247; July 23.
- Glass articles, particularly of milk-glass bulbs for electric incandescent lamps, Manufacture of translucent hollow. M. Pirani. 1,713,394; May 14.
- Glass-blowing machine. L. D. Soubier. 1,705,341; Mar. 12.
- Glass-blowing machine. L. D. Soubier. 1,737,524; Nov. 26.



- Glass-blowing machines, Pot-draining device for. F. A. Oct. 1,698,000; Jan. 8.
- Glass by addition of material, Manufacture of articles of silica. P. H. C. La Burthe. 1,724,844; Aug. 13.
- Glass-charging device. A. F. Tremblay. 1,720,496; July 9.
- Glass circulator, Pneumatic. E. G. Nelson, jr. 1,721,968; July 23.
- Glass cutter. A. Vollm. 1,721,361; July 16.
- Glass cutting. F. N. Campbell and J. Myatt. 1,738,228-9; Dec. 3.
- Glass-cutting apparatus. J. L. Drake. 1,720,546; July 9.
- Glass-cutting apparatus, Sheet-. J. L. Drake. 1,724,261; Aug. 13.
- Glass-cutting table. C. E. Norcross. 1,698,506; Jan. 8.
- Glass-delivering apparatus. D. Stenhouse. 1,735,551; Nov. 12.
- Glass-drawing apparatus, Sheet. G. G. Roberts. 1,722,445; July 30.
- Glass. Drawing continuous sheet. J. C. Henderson. 1,735,573; Nov. 12.
- Glass, Drawing sheet. C. P. Byrnes. 1,697,104; Jan. 1.
- Glass, Drawing sheet. C. A. Rowley. 1,720,527; July 9.
- Glass-fabricating machine. W. J. Miller. 1,700,326; Jan. 29.
- Glass feeder. A. N. Cramer. 1,737,220; Nov. 26.
- Glass feeder. L. D. Soubier. 1,731,947; Oct. 15.
- Glass feeder. L. D. Soubier. 1,737,525; Nov. 26.
- Glass-feeding apparatus. A. N. Cramer. 1,699,563; Jan. 22.
- Glass-feeding apparatus. L. D. Soubier. 1,718,608; June 25.
- Glass-feeding apparatus, Adjustable cam mechanism for. E. H. Lorenz. 1,737,165; Nov. 26.
- Glass, Feeding molten. K. E. Peiler. 1,739,519; Dec. 17.
- Glass for tail-lamp stop signals and reverse lights. C. A. Michel. 1,726,447; Aug. 27.
- Glass-forming apparatus. A. N. Cramer. 1,737,221; Nov. 26.
- Glass-forming apparatus and method, Sheet-. E. Danner. 1,697,227; Jan. 1.
- Glass-forming apparatus, Sheet-. J. C. Blair. 1,735,595; Nov. 12.
- Glass-forming machine. A. N. Cramer. 1,702,498; Feb. 19.
- Glass-forming machine. R. La France. 1,699,566; Jan. 22.
- Glass-forming machine. R. La France. 1,718,651; June 25.
- Glass-forming machine. L. D. Soubier. 1,733,473; Oct. 29.
- Glass-forming machines, Transferring apparatus for continuously-rotating. D. Stenhouse. 1,712,907; May 14.
- Glass furnace. T. C. Moorshead. 1,716,456; June 11.
- Glass furnace. J. J. Quertinmont. 1,715,568; June 4.
- Glass-furnace burner. P. R. Vitte. 1,697,334; Jan. 1.
- Glass-grinding machines, Abrasive-feeding system for. J. P. Crowley. 1,735,600; Nov. 12.
- Glass in a furnace, Apparatus for the precise determination of the level of. A. Mathé. 1,706,857; Mar. 26.
- Glass into mold charges, Forming hot. A. N. Cramer. 1,737,219; Nov. 26.
- Glass into molds, Method of and apparatus for charging molten. C. H. Rankin. 1,742,098; Dec. 31.
- Glass leer, Sheet-. E. T. Ferngren. 1,729,164; Sept. 24.
- Glass light or lens for sidewalks, vault covers, and the like, Removable. A. O. Strom. 1,723,634; Aug. 6.
- Glass, Manufacture of window. M. Bicheroux. 1,741,912; Dec. 31.
- Glass manufacture, Sheet-. L. E. Stewart. 1,741,886; Dec. 31.
- Glass, marble, or other similar materials, Apparatus for grinding, smoothing, and polishing plates of. E. Rowart. 1,738,730; Dec. 10.
- Glass-melting crucibles and similar refractory objects of clay, Manufacturing. J. Hochhut. 1,732,088; Oct. 15.
- Glass-melting furnace. N. Mambourg. 1,731,248; Oct. 15.
- Glass, Method and apparatus for drawing sheet. E. T. Ferngren. 1,720,547; July 9.
- Glass, Method and apparatus for drawing sheet. W. A. Morton. 1,726,114; Aug. 27.
- Glass, Method and apparatus for forming sheet. H. E. Allen and W. F. Brown. 1,739,936; Dec. 17.
- Glass, Method and apparatus for producing colored. E. J. Brasseur and W. R. Geddes. 1,698,491; Jan. 8.
- Glass, Method and apparatus for producing laminated. J. A. Reece. 1,729,125; Sept. 24.
- Glass, Method and apparatus for producing sheet. R. D. Humphreys. 1,697,504; Jan. 1.
- Glass, Method and apparatus for spinning. E. Wellech. 1,738,217; Dec. 3.
- Glass, Method of and apparatus for feeding molten. K. E. Peiler. 1,721,487; July 16.
- Glass, Method of and apparatus for feeding molten. K. E. Peiler. 1,724,678; Aug. 13.
- Glass, Method of and apparatus for feeding molten. K. E. Peiler. 1,731,681; Oct. 15.
- Glass, Method of and apparatus for feeding molten. D. A. Ripley. 1,732,773; Oct. 22.
- Glass, Method of and apparatus for perforating. J. T. Littleton, jr., and C. R. Smith. 1,722,010; July 23.
- Glass mold. B. Bart. 1,716,350; June 4.
- Glass mold. A. J. Thom. 1,736,637; Nov. 19.
- Glass molds, Apparatus for silvering. B. Bart. 1,726,974; Sept. 3.
- Glass mounting and retaining member. H. E. Sipe. 1,723,308; Aug. 6.
- Glass or like articles, Rounding off or beveling edges of. F. Liebl. 1,736,977; Nov. 26.
- Glass or similar article, Sherbet. N. Kopp. Des. 78,766; June 18.
- Glass or the like, Building. H. C. Callender. Des. 80,163; Dec. 24.
- Glass panes, Device for handling plate-. M. Glazer. 1,721,816; July 23.
- Glass-polishing machine. E. J. Kiefer. 1,740,247; Dec. 17.
- Glass pressing and blowing machine. M. Jaeger. 1,724,483; Aug. 13.
- Glass-pressing machine. M. Jaeger. 1,712,499; May 14.
- Glass, Process and apparatus for drawing. A. E. Spinasse. 1,701,899; Feb. 12.
- Glass, Process and apparatus for leveling. N. H. Klages. 1,714,959; May 28.
- Glass, Process and apparatus for making composite. W. O. Lytle. 1,732,022-3; Oct. 15.
- Glass, Process and apparatus for making sheet. D. F. Cannon. 1,704,552; Mar. 5.
- Glass, Process and apparatus for producing sheet. J. C. Blair. 1,729,147; Sept. 24.
- Glass, Process and apparatus for rolling plate. L. Showers. 1,704,580; Mar. 5.
- Glass, Process and apparatus for surfacing sheet. J. H. Fox. 1,724,704; Aug. 13.
- Glass, Process and apparatus for the manufacture of. C. Heuze. 1,732,889; Oct. 22.
- Glass, Producing sheet. N. Franzen. 1,734,250; Nov. 5.
- Glass, Producing sheet. W. E. Nobbe. 1,731,260; Oct. 15.
- Glass, quartz, or ceramic materials into metal caps and similar metal articles, Melting or fusing. K. Donat. 1,740,443; Dec. 24.
- Glass-rolling apparatus. J. H. Fox. 1,702,504; Feb. 19.
- Glass-run channel. H. W. Fauver. 1,716,219; June 4.
- Glass scraper. E. Des Enfants, sr. 1,726,017; Aug. 27.
- Glass-serving apparatus. H. Brooke. 1,712,327; May 7.
- Glass-severing mechanism. E. O. Hiller. 1,732,305; Oct. 22.
- Glass-shaping machine. H. A. Genest. 1,740,236; Dec. 17.
- Glass-shaping machine. E. H. Lorenz. 1,740,310; Dec. 17.
- Glass sheets, Apparatus for handling. W. G. Koupal and J. H. Redshaw. 1,741,026; Dec. 24.
- Glass sheets, Manufacture of nonsplintering. G. E. Heyl. 1,725,454; Aug. 20.
- Glass sheets, Process and slot member for manufacturing. N. P. Krasnikov. 1,741,523; Dec. 31.
- Glass substitute, Reinforced. L. E. Spence and J. R. Hogate. 1,713,198; May 14.
- Glass-supporting table, Sheet-. F. Fraser. 1,718,342; June 25.
- Glass-surfacing apparatus. H. K. Hitchcock. 1,741,021; Dec. 24.
- Glass-surfacing apparatus, Sheet-. J. L. Drake. 1,735,565; Nov. 12.
- Glass-surfacing apparatus, Sheet-. E. G. Stable. 1,739,925; Dec. 17.
- Glass-transfer apparatus, Plate-. J. H. Fox. 1,724,703; Aug. 13.
- Glassware, Apparatus and method for manufacturing. W. E. Bock. 1,720,029; July 9.
- Glassware, Apparatus for annealing. V. Mulholland. 1,736,322; Nov. 19.
- Glassware, Apparatus for handling. E. H. Lorenz. 1,733,547; Oct. 29.
- Glassware-forming machines, Mold-inverting mechanism for. J. E. Schroder. 1,707,178; Mar. 26.
- Glassware-forming means. I. G. Fowler. 1,739,452; Dec. 10.
- Glassware machinery. R. F. Hall. 1,720,598; July 9.
- Glassware, Method and apparatus for annealing. V. Mulholland. Re17,263; Apr. 9.
- Glassware, Method and apparatus for forming. E. Danner. 1,734,965; Nov. 12.
- Glassware, Method and apparatus for manufacturing continuous. E. Danner. 1,734,964; Nov. 12.
- Glassware, Method of and apparatus for annealing. V. Mulholland. 1,735,353; Nov. 12.
- Glassware, Method of and apparatus for forming. R. La France. 1,702,262; Feb. 19.
- Glassware, Producing cracked. V. O. Cornwell and F. J. Blackburn. 1,739,825; Dec. 17.
- Glass-working machine. D. Kondakjian. 1,720,908; July 16.
- Glass-working machine. P. Schwerin and J. G. Pfeiffer. 1,724,972; Aug. 20.
- Glass-working machinery. G. A. Millar. 1,721,570; July 23.
- Glass-working tank. L. D. Soubier. 1,710,790; Apr. 30.
- Glasses, Attachment for windshield vision. S. R. Bell. 1,720,027; July 9.
- Glasses, Driving. D. E. Willard. 1,706,429; Mar. 26.
- Glaziers' points, Device for setting. J. E. Domagall. 1,736,190; Nov. 19.
- Glazing clip. G. I. Barclay. 1,709,300; Apr. 16.
- Glazing clip. C. F. Kunej. 1,708,068; Apr. 9.
- Glazing clip. E. Towill. 1,697,699; Jan. 1.
- Glider. H. M. Epstein. 1,733,725; Oct. 29.
- Glider for furniture legs, Adjustable. H. A. Hamm. 1,714,776; May 28.
- Globe. F. C. Baker. Des. 78,603; May 28.



- Globe. E. L. Silverman. Des. 79,765; Oct. 29.  
 Globe. F. K. Test. Des. 79,446; Sept. 17.  
 Globe. W. von Nessen. Des. 80,099; Dec. 10.  
 Globe and cap for street-lighting standards, Combined. G. R. Harris. Des. 77,409-10; Jan. 8.  
 Globe for illuminating fixtures. N. Kopp. Des. 78,632; May 28.  
 Globe for street lamps. R. Haley. Des. 79,466; Sept. 24.  
 Globe for street-lighting standards. G. R. Harris. Des. 79,359; Sept. 10.  
 Globe holder for electric-lighting fixture. E. C. White. 1,727,151; Sept. 3.  
 Globe holder for illuminating fixtures. O. C. F. Wilcke. 1,710,281; Apr. 23.  
 Globe, Lighting-fixture. D. W. Silvers. Des. 79,913; Nov. 12.  
 Globe, Lighting-fixture. M. P. Terrell. Des. 77,794; Feb. 19.  
 Globe protector. P. Vandenoever. 1,702,802; Feb. 19.  
 Globular articles, Apparatus for dispensing. P. L. Ormiston. 1,725,965; Aug. 27.  
 Glory-hole furnace. M. E. McSwain. 1,735,775; Nov. 12.  
 Glove. E. Burden. 1,716,206; June 4.  
 Glove. J. M. Edwards. 1,725,065; Aug. 20.  
 Glove. B. Elsey. 1,735,676; Nov. 12.  
 Glove. T. R. Fernie. 1,716,221; June 4.  
 Glove. J. Fitz Gibbon. Des. 78,971; July 16.  
 Glove. L. Postman. Des. 77,433; Jan. 8.  
 Glove. F. X. Sturn. 1,699,495; Jan. 15.  
 Glove and making the same. S. E. Benjamin and W. P. Murray. 1,740,218; Dec. 17.  
 Glove, Asbestos. G. W. Gerding. 1,730,763; Oct. 8.  
 Glove, Baseball. W. F. Stumpe. 1,725,426; Aug. 20.  
 Glove, Boxing. R. J. Mitchell. 1,739,013; Dec. 10.  
 Glove, Butcher's. E. R. Lowe. 1,736,928; Nov. 26.  
 Glove, Fielder's. F. J. Armstrong. 1,725,727; Aug. 20.  
 Glove or the like. W. E. Meyers. Des. 78,836-7; June 25.  
 Glove, Swimming. W. G. Adams. 1,726,728; Sept. 3.  
 Glove, Swimming. G. W. Dun. 1,728,479; Sept. 17.  
 Glove, Swimming. G. Feketis. 1,740,290; Dec. 17.  
 Glove-turning machine. W. R. Lowry. 1,735,688; Nov. 12.  
 Glue and making same, Vegetable. L. Bradshaw and H. V. Dunham. 1,703,133; Feb. 26.  
 Glue base, Vegetable. E. H. Harvey. 1,726,824; Sept. 3.  
 Glue, Making. A. Hoche. 1,710,687; Apr. 30.  
 Glue, Waterproofing vegetable protein-base. G. H. Osgood. 1,706,674; Mar. 26.  
 Glue, Water-resistant animal. C. E. Hrubesky and F. L. Browne. 1,712,077; May 7.  
 Gluing machine, Veneer. J. E. Black. 1,698,185; Jan. 8.  
 Gluing mechanism for bookbinding machine. H. C. Alger. 1,741,269; Dec. 31.  
 Gluten washer. E. J. Sisser. 1,728,374; Sept. 17.  
 Glycerin by fermentation, Production of. F. A. McDermott. 1,725,363; Aug. 20.  
 Glycerin, Production of. K. and N. Lüdecke. 1,698,800; Jan. 15.  
 Goal-line staff. W. E. Davis. 1,741,452; Dec. 31.  
 Goblet. E. M. Bottomo. Des. 79,225-6; Aug. 20.  
 Goblet. G. Dougherty. Des. 77,944; Mar. 12.  
 Goblet. I. H. Freese. Des. 79,326; Sept. 3.  
 Goblet. J. Kirkpatrick. Des. 77,779; Feb. 19.  
 Goblet. W. H. Magee. Des. 77,785; Feb. 19.  
 Goblet, Glass. R. C. Cobel. Des. 77,673; Feb. 12.  
 Goblet, Glass. W. L. Orme. Des. 78,896; July 2.  
 Goblet or similar article. J. D. Dithridge. Des. 78,507; May 14.  
 Goblet or similar article. G. Dougherty. Des. 77,942-3; Mar. 12.  
 Goblet or similar article. A. B. Gunthel. Des. 77,952; Mar. 12.  
 Goblet or similar article. A. B. Gunthel. Des. 79,516; Oct. 1.  
 Goblet or similar article. C. R. Keil. Des. 77,362; Jan. 1.  
 Goblet or similar article. J. C. Kelly. Des. 79,431; Sept. 17.  
 Goblet or similar article. N. Kopp. Des. 78,765; June 18.  
 Goblet or similar article. F. Schmidt. Des. 79,778; Oct. 29.  
 Goblet or similar article of table glassware. J. H. Venon. Des. 78,058-60; Mar. 19.  
 Gocart, Collapsible. D. J. De Grasse. 1,742,137; Dec. 31.  
 Goggle fitting. H. F. Shindel. 1,738,618; Dec. 10.  
 Goggles. E. B. Meyrowitz. 1,741,427; Dec. 31.  
 Goggles. W. B. Rayton. 1,741,536; Dec. 31.  
 Goggles. E. D. Tillyer and E. L. Godfrey. 1,722,602; July 30.  
 Goggles. G. L. Tully and N. M. Baker. 1,721,168; July 16.  
 Goggles. F. Willson. Des. 79,272; Aug. 20.  
 Goggles. W. J. Wrighton. 1,720,811; July 16.  
 Gold in film or leaf form, Production of electrolytically-deposited. W. F. Grupe. 1,731,415; Oct. 15.  
 Golf accessory. H. W. St. John. 1,723,091; Aug. 6.  
 Golf bag. J. E. Bloomberg. 1,714,759; May 28.  
 Golf bag. J. W. Brandt. 1,700,734; Feb. 5.  
 Golf bag. L. Cauffman. 1,717,959; June 18.  
 Golf bag. J. P. Connor. 1,699,048; Jan. 15.  
 Golf bag. J. C. Hall. 1,737,967; Dec. 3.  
 Golf bag. G. A. Howe. 1,741,057; Dec. 24.  
 Golf bag. C. O. Kahle. 1,709,582; Apr. 16.  
 Golf bag. F. H. Mooney. 1,715,668; June 4.  
 Golf bag. G. L. Pierce. 1,703,540; Feb. 26.  
 Golf bag. B. F. Shanahan. 1,715,101; May 28.  
 Golf bag. E. B. Shelton. 1,726,245; Aug. 27.  
 Golf-bag stand. T. E. Robinson. 1,722,341; July 30.  
 Golf ball. V. B. C. Binnie. Des. 79,223-4; Aug. 20.  
 Golf ball. J. B. Des Rosiers. Des. 79,458; Sept. 24.  
 Golf ball. G. L. Fotheringham. 1,716,435; June 11.  
 Golf ball. W. J. Perry. Des. 78,311; Apr. 16.  
 Golf ball and manufacture of the same. O. J. Kuhlke. 1,715,661; June 4.  
 Golf-ball cleaner. H. Evans. 1,710,816; Apr. 30.  
 Golf-ball cleaner. C. F. Henzli. 1,730,973; Oct. 8.  
 Golf-ball device, Practice. O. A. Henderson. 1,700,224; Jan. 29.  
 Golf-ball marker. L. La Borie. 1,710,738; Apr. 30.  
 Golf-ball painting and partially-drying machine. A. Turner. 1,714,994; May 28.  
 Golf-ball retriever. J. E. Reiser. 1,723,709; Aug. 6.  
 Golf-ball tee. O. L. Glaser. 1,698,627; Jan. 8.  
 Golf balls, Device for retrieving. J. R. Du Chene. 1,722,519; July 30.  
 Golf, Bridge. C. J. Hoffman and R. S. Shrader. 1,715,365; June 4.  
 Golf club. W. H. Anderson. 1,713,153; May 14.  
 Golf club. W. B. Barkley. 1,715,586; June 4.  
 Golf club. A. Gavin. 1,703,581; Feb. 26.  
 Golf club. R. N. Hincks. 1,705,250; Mar. 12.  
 Golf club. H. J. Klutho. 1,739,468; Dec. 10.  
 Golf club. D. Mackay. 1,707,677; Apr. 2.  
 Golf club. R. E. McClure. 1,703,199; Feb. 26.  
 Golf club. J. W. Quynn. 1,705,997; Mar. 19.  
 Golf club, Adjustable. J. A. Novak and F. C. Fisher. 1,697,998; Jan. 8.  
 Golf club, Adjustable. J. A. Novak and F. C. Fisher. 1,702,916; Feb. 19.  
 Golf club and assembling same. W. F. Reach. 1,733,822; Oct. 29.  
 Golf-club construction. A. E. Buhke. 1,699,874; Jan. 22.  
 Golf-club construction. A. E. Buhke. 1,704,119; Mar. 5.  
 Golf-club construction. A. E. Buhke. 1,704,165; Mar. 5.  
 Golf-club construction. G. G. and W. S. Webster. 1,720,867; July 16.  
 Golf-club handle. J. A. Novak. 1,704,544; Mar. 5.  
 Golf-club head. A. A. Kraeter. Des. 78,522; May 14.  
 Golf-club head. P. M. R. Munro-Spencer. Des. 79,684; Oct. 22.  
 Golf-club-holding attachment for golf bags. W. B. Patterson. 1,731,588; Oct. 15.  
 Golf-club rack. U. C. Deike. 1,719,360; July 2.  
 Golf-club-shaft protector. F. C. Evans. 1,711,344; Apr. 30.  
 Golf-club shafts, Making. G. E. Barnhart. 1,713,812; May 21.  
 Golf-club-testing machine. G. E. Barnhart. 1,703,507; Feb. 26.  
 Golf club, Universal. D. W. Anderson. 1,697,846; Jan. 8.  
 Golf clubs, Speed-indicating device for. W. P. White. 1,712,537; May 14.  
 Golf cup. M. R. Hummel. 1,723,859; Aug. 6.  
 Golf device. M. C. Rotermund. 1,721,041; July 16.  
 Golf driving recorder. T. H. Decker. 1,717,763; June 18.  
 Golf game. H. B. Lasting. 1,736,316; Nov. 19.  
 Golf game. W. W. Malloy and E. M. Toscanini. 1,704,985; Mar. 12.  
 Golf game. D. R. Scanlan. 1,719,240; July 2.  
 Golf game board. T. H. Decker. 1,736,523; Nov. 19.  
 Golf harness. C. H. and W. J. Bemish. 1,699,219; Jan. 15.  
 Golfing accessory. L. J. Carleton. 1,714,346; May 21.  
 Golf instructing apparatus. A. C. Volk. 1,703,375; Feb. 26.  
 Golf practice apparatus. B. B. Morrill. 1,697,131; Jan. 1.  
 Golf practice set. C. E. Thrasher and D. A. Cooper. 1,730,176; Oct. 1.  
 Golf-practicing device. E. R. Kappeler. 1,732,971; Oct. 22.  
 Golf putting green. F. A. Schmitz. Des. 80,142; Dec. 17.  
 Golf register. B. M. Beskow. 1,714,070; May 21.  
 Golf scorer. G. F. Hofferberth. 1,701,888; Feb. 12.  
 Golf strokes, Device for practicing. L. E. Yaggi. 1,733,767; Oct. 29.  
 Golf tee. W. J. Barnes. 1,715,026; May 28.  
 Golf tee. U. C. Deike. 1,717,962; June 18.  
 Golf tee. U. C. Deike. 1,736,583; Nov. 19.  
 Golf tee. W. H. McLeod. Des. 78,530; May 14.  
 Golf tee. W. H. McLeod. 1,738,596; Dec. 10.  
 Golf tee. W. J. Parrott and R. Hagen. 1,708,774; Apr. 9.  
 Golf tee. W. J. Pugh. 1,717,318; June 11.  
 Golf tee. E. A. Roop. Des. 78,587; May 21.  
 Golf tee. D. H. Warner. 1,699,934; Jan. 22.  
 Golf-training device. E. R. Kappeler. 1,722,848; July 30.  
 Gondolas or the like, Wall structure for. S. M. Code. 1,733,332; Oct. 29.  
 Gopher trap. J. J. Daniels. 1,721,946; July 23.  
 Governing device for wind-power plants. H. E. Bucklen. 1,698,709; Jan. 15.  
 Governing mechanism for prime movers. E. D. Dickinson. 1,698,299; Jan. 8.  
 Governing mechanism for turbine driven sets. R. G. Standerwick. 1,729,692; Oct. 1.  
 Governing system for Diesel engines with arrangements to work with increased admission pressure (supercharging). K. Schmidt. 1,718,586; June 25.  
 Governor. W. D. Candee. 1,704,242; Mar. 5.  
 Governor. I. M. Crafts. 1,709,463; Apr. 16.  
 Governor. D. C. Davis. 1,713,336; June 25.  
 Governor. A. T. Kasley. 1,732,812; Oct. 22.  
 Governor. C. P. Madsen. 1,731,784; Oct. 15.



- Governor. G. L. Moyers and E. A. Abraham. 1,733,424; Oct. 29.
- Governor. A. P. Plaut. 1,712,166; May 7.
- Governor. G. C. Taylor. 1,734,453; Nov. 5.
- Governor attachment for tractors. L. O. Fundingsland. 1,713,470; May 14.
- Governor, Compressor. N. A. Christensen. 1,735,197; Nov. 12.
- Governor, Electric. C. A. Waterous. 1,719,952; July 9.
- Governor, Engine. D. C. Addicks. 1,698,464; Jan. 8.
- Governor, Engine. F. E. Dunn and C. W. Martin. 1,702,820; Feb. 19.
- Governor, Fluid-pressure. A. T. Kasley. 1,732,813; Oct. 22.
- Governor for fluid-pressure motors. H. L. Cook. 1,729,030; Sept. 24.
- Governor for fluid-pressure motors. J. J. N. Van Hamersveld. 1,720,652; July 9.
- Governor for fluid-pressure motors. J. J. N. Van Hamersveld. 1,723,589; Aug. 6.
- Governor for hydraulic drives, Speed. W. Ferris. 1,741,833; Dec. 31.
- Governor for internal-combustion engines. G. J. Rathbun. 1,730,013; Oct. 1.
- Governor for internal-combustion engines, Automatic. R. Hufford. 1,710,311; Apr. 23.
- Governor for pressure-fluid-operated tools. E. H. Shaff. 1,740,669; Dec. 24.
- Governor for two-stroke engines designed for the propulsion of vehicles, Safety. H. Becker. 1,703,381; Feb. 26.
- Governor for type-casting machines, Gas. V. A. Boker. 1,724,252; Aug. 13.
- Governor, Internal-combustion-engine. R. A. Oglesby. 1,731,392; Oct. 15.
- Governor, Pressure. F. H. Parke. 1,709,871; Apr. 23.
- Governor, Speed. G. von Arco. 1,708,529; Apr. 9.
- Governor, Speed and pressure. C. Wainwright. 1,733,844; Oct. 29.
- Governor, Suction-controlled. R. J. Weaver. 1,726,725; Sept. 3.
- Governor, Throttle. C. F. Freay. 1,719,263; July 2.
- Governor with progressive speed or race variations, Movement. J. M. L. Ferrari. 1,717,018; June 11.
- Gown, Child's bed or crib. D. S. Ward. 1,725,031; Aug. 20.
- Grab. D. J. Barnard. 1,705,956; Mar. 19.
- Grab. P. J. Bimst. 1,737,909; Dec. 3.
- Grab. R. Z. Drake. 1,730,128; Oct. 1.
- Grab bar. J. A. Hoegger. 1,725,802; Aug. 27.
- Grab, Hydraulic. J. H. Bonner. 1,719,584; July 2.
- Grabhook. N. Ekberg. 1,734,719; Nov. 5.
- Grabhook. J. Riel. 1,699,022; Jan. 15.
- Grade crossing. R. H. Gerard. 1,699,886; Jan. 22.
- Grade crossing for railways, Highway. E. C. Price and T. L. Hanley. 1,729,359-60; Sept. 24.
- Grade-crossing signal, Automatic railroad. W. J. Cardwell. 1,716,683; June 11.
- Grade meter. L. H. Mercer. 1,737,936; Dec. 3.
- Graded-finder system. W. Aitken. 1,740,559; Dec. 24.
- Grader. W. B. Quillen. 1,734,400; Nov. 5.
- Grader. P. A. Robbins. 1,735,796; Nov. 12.
- Grader and scarifier. J. H. Gunnison. 1,741,933; Dec. 31.
- Grader, Elevating. P. C. Cole. 1,698,152; Jan. 8.
- Grader, Front-power-plant road. F. D. Wilson. 1,714,152; May 21.
- Grader, Fruit. J. C. Schofield. 1,706,548; Mar. 26.
- Grader, Power-inclined leaning-wheel. F. D. Wilson. 1,714,151; May 21.
- Grader, Road. R. A. Edwards. 1,723,019; Aug. 6.
- Grader, Road. C. E. Gilbert. 1,723,931; Aug. 6.
- Grader, Road. C. A. Gustafson. 1,698,435; Jan. 8.
- Grader, Road. D. C. Hinds. 1,732,892; Oct. 22.
- Grader, Road. W. A. Horthy and F. G. Hodsdon. 1,705,291; Mar. 12.
- Grader, Road. H. R. Wilson. 1,698,980; Jan. 15.
- Grading and distributing machine, Automatic top. L. Cogswell. 1,718,948; July 2.
- Grading and gauging machine. D. E. Harding. 1,704,386; Mar. 5.
- Grading and loading apparatus. E. P. Henry and R. A. Morton. 1,710,477; Apr. 23.
- Grading attachment, Adjustable. G. C. Frantz. 1,701,069; Feb. 5.
- Grading livestock, Apparatus for. J. S. Mitchell. 1,703,244; Feb. 26.
- Grading machine. W. E. Anderson. 1,730,343; Oct. 8.
- Grading machine. E. O. Churchill. 1,714,347; May 21.
- Grading machine. L. A. Cogswell. 1,726,610; Sept. 3.
- Grading machine. L. A. Cogswell. 1,738,618; Dec. 10.
- Grading machine. L. A. Cogswell. 1,741,149; Dec. 31.
- Grading machine. J. D. Grabill. 1,715,197; May 28.
- Grading machine. W. T. B. Roberts. 1,703,953; Mar. 5.
- Grading machine, Lumber. F. W. Horstkotte. 1,705,569; Mar. 19.
- Grading machine, Pattern. J. Durán. 1,702,381; Feb. 19.
- Grading machine, Road. J. O. Archer. 1,728,466; Sept. 17.
- Grading machines, Marking device for. L. A. Cogswell. 1,713,598; May 21.
- Grading material, Apparatus for. F. L. Ward. 1,706,428; Mar. 26.
- Grading material, Method and apparatus for. D. D. Dunkin. 1,699,522; Jan. 22.
- Grading of fresh or dry fruits. E. H. Wiegand and D. E. Bullis. 1,728,583; Sept. 17.
- Gradometer. N. Braibant. 1,732,397; Oct. 22.
- Grain-adjusting device. A. Uher. 1,700,389; Jan. 29.
- Grain bin, Sheet-metal. A. N. Eaton. 1,732,400; Oct. 22.
- Grain-classifying device. M. A. Boix. 1,714,208; May 21.
- Grain cleaner. C. L. Callies. 1,730,556; Oct. 8.
- Grain cleaner. J. E. Johnson. 1,733,604; Oct. 29.
- Grain-cracking machine. D. Sensenbaugh. 1,740,787; Dec. 24.
- Grain cutter. E. McKain. 1,721,183; July 16.
- Grain-door table, Power-operated. F. Breest and O. Hervig. 1,732,217; Oct. 22.
- Grain drier. G. E. Chamberlain. 1,716,876; June 11.
- Grain-drill feed. E. A. Johnston and S. W. Cadey. 1,712,797; May 14.
- Grain elevator. A. J. Hartley. 1,705,478; Mar. 19.
- Grain-handling apparatus. D. B. Pegles. 1,732,463; Oct. 22.
- Grain, Method and apparatus for conditioning. E. S. Miller. 1,711,574; May 7.
- Grain purifiers, Attachment for. T. A. McWilliams, O. C. Farman, and A. R. Overall. 1,706,800; Mar. 26.
- Grain receiver for binders, Loose. B. N. Roadenbaugh. 1,723,490; Aug. 6.
- Grain recleaner and grader, Combined. T. L. Bodie. 1,715,532; June 4.
- Grain-row header. B. Dean. 1,714,161; May 21.
- Grain saver. V. L. Shonka. 1,714,322; May 21.
- Grain separator. F. M. Kellie. 1,706,787; Mar. 26.
- Grain separator. G. A. Larson. 1,734,261; Nov. 5.
- Grain separator. J. A. Perkins. 1,710,380; Apr. 23.
- Grain separator. R. G. Quehl. 1,708,325; Apr. 9.
- Grain separator. J. Volz. 1,717,748; June 18.
- Grain separator. C. E. Wyman. 1,720,618; July 9.
- Grain shocker. E. R. Kaylor. 1,725,355; Aug. 20.
- Grain ventilator. R. Renshaw. 1,699,375; Jan. 15.
- Grain ventilator. J. Stroble. 1,715,256; May 28.
- Graining machine. C. Zarkin. 1,718,020; June 18.
- Graining plates, Making. A. R. Golrick. 1,720,727; July 16.
- Gramophone. H. W. S. Hoy. 1,735,283; Nov. 12.
- Gramophone and other sound-reproducing apparatus. J. Frey. 1,699,885; Jan. 22.
- Gramophone drive. R. Stehle. 1,735,064; Nov. 12.
- Gramophone-record-cutting device and the like. H. J. Round. 1,713,195; May 14.
- Gramophones, Record-brushing attachment for. T. Watson. 1,712,637; May 14.
- Grape-steaming device. C. E. Triplett. 1,719,913; July 9.
- Grape-stemming device. S. F. Triplett. 1,703,123; Feb. 26.
- Grapevine-brush remover. F. L. Thamerus. 1,713,152; May 14.
- Graph, Mechanical. E. M. Andres and R. W. Tallman. 1,711,980; May 7.
- Graphic instrument. E. H. Greibach. 1,740,456; Dec. 24.
- Graphic recorder, High-speed. C. I. Hall. 1,713,226; May 14.
- Graphite lubricant. S. P. Burke. 1,732,221; Oct. 22.
- Graphophone. W. D. Douglas. 1,715,412; June 4.
- Graphophone, Multiplaying. H. A. Koester. 1,732,756; Oct. 22.
- Graphophone, Multiplaying. H. A. Koester and C. J. Waters. 1,719,184; July 2.
- Grapple. J. W. Daoust. 1,717,194; June 11.
- Grapple. W. M. Marble. 1,739,601; Dec. 17.
- Grapple. G. W. Russell. 1,721,234; July 16.
- Grapple. M. W. Shroyer. 1,728,084; Sept. 10.
- Grapple, Automatic handling. A. G. and A. L. Mendenwald. 1,733,084; Oct. 22.
- Grapple for handling hot castings. I. L. Wessel. 1,740,383; Dec. 17.
- Grapple for sunken ships. E. C. Jacobson. 1,721,859; July 23.
- Grapple, Revolving. D. W. Coe. 1,712,870; May 14.
- Grapppling device for merchandise. R. S. Dart. 1,729,330; Sept. 24.
- Grapppling fork. E. W. Coons. 1,735,994; Nov. 19.
- Grass cutter, Bermuda. A. R. McClelland. 1,704,333; Mar. 5.
- Grass cutter, Bermuda. O. W. Steffel. 1,702,707; Feb. 19.
- Grass kicker. S. Novak. 1,707,233; Apr. 2.
- Grate. A. Frankenheim. 1,700,368; Jan. 29.
- Grate. C. G. Holmes. 1,730,460; Oct. 8.
- Grate. H. F. Porter. 1,703,748; Feb. 26.
- Grate and pallet structure. E. W. Shallock. 1,722,344; July 30.
- Grate bar. H. A. Ellis. 1,701,150; Feb. 5.
- Grate bar. G. Shenton. 1,725,376; Aug. 20.
- Grate block for stokers, Protected. I. A. Taylor. 1,741,744; Dec. 31.
- Grate, Chain. J. Van Brunt. 1,714,577; May 28.
- Grate, Flexible. B. F. Fleming. 1,723,775; Aug. 6.
- Grate for furnaces, Chain. A. W. Bennis. 1,713,322; May 14.
- Grate for furnaces or boilers. C. C. Cathcart. 1,704,935; Mar. 12.
- Grate for furnaces, Refractory. A. Vaszi. 1,738,856; Dec. 10.
- Grate for gas producers, Revolving. G. Dienne. 1,724,461; Aug. 13.
- Grate for gas stoves, Top. J. Z. Harner and H. S. Schweinhart. 1,697,184; Jan. 1.
- Grate for metallurgical apparatus. J. E. Greenawalt. 1,704,681; Mar. 5.
- Grate for sintering pans. T. M. Alexovitz. 1,704,027; Mar. 5.



- Grate for stoves and furnaces. C. W. Thomas. 1,711,131; Apr. 30.
- Grate, Fuel. J. J. Buckley. 1,732,497; Oct. 22.
- Grate, Furnace. F. M. Kandle. 1,728,126; Sept. 10.
- Grate, Furnace. F. M. Kandle. 1,742,081; Dec. 31.
- Grate, Furnace. L. Williams. 1,701,802; Feb. 12.
- Grate furnace, Mechanically-actuated. A. W. Bennis. 1,741,808; Dec. 31.
- Grate, Oven. L. J. Cravener. 1,725,180; Aug. 20.
- Grate stoker, Traveling-. J. Van Brunt. 1,698,113; Jan. 8.
- Grate structure. W. B. Chapman. 1,732,500; Oct. 22.
- Grate structure. J. W. Huison. 1,715,294; May 28.
- Grate with movable hollow fire bars, Fire. A. A. Golovtchikoff. 1,701,613; Feb. 12.
- Grating. F. J. Brown. 1,734,471; Nov. 5.
- Grating. H. H. Bunker. 1,698,429; Jan. 8.
- Grating. L. S. Lachman and J. R. Tench. 1,706,892; Mar. 26.
- Grating edge structure. H. Nagin. 1,732,527; Oct. 22.
- Grating machine. E. J. Hileman. 1,714,367; May 21.
- Grating structure. N. Berson. 1,740,219; Dec. 17.
- Grating structure, Continuous. P. L. Price. 1,733,902-3; Oct. 29.
- Grating structure, Continuous. J. A. Voskamp. 1,733,923; Oct. 29.
- Grating structure for flooring and like purposes, Continuous. W. E. Irving. 1,733,966; Oct. 29.
- Grave box. L. A. Unland. 1,699,724; Jan. 22.
- Grave box, Concrete. H. J. Lotz. 1,706,671; Mar. 26.
- Grave closure. J. H. Schroeder. 1,705,786; Mar. 19.
- Grave-filling machine. W. T. Conner. 1,739,026; Dec. 10.
- Grave marker. M. A. Beeson. Des. 78,501; May 14.
- Gravel box, All-steel. A. W. Randolph. 1,733,905; Oct. 29.
- Gravel spreader. E. L. Pardue. 1,735,297; Nov. 12.
- Gravel washer. F. R. Dravo. 1,735,738; Nov. 12.
- Gravestone, Chambered photo. J. Newhouse. 1,737,474; Nov. 26.
- Gravity concrete-distributing apparatus. J. E. Bushnell. 1,721,068; July 16.
- Gravity control lock. C. F. Battershell. 1,733,772; Oct. 29.
- Gravity-friction switch. J. B. Hoff. 1,726,225; Aug. 27.
- Gravity motor. J. T. Ross. 1,734,829; Nov. 5.
- Grease and preparing the same. J. H. James. 1,700,056; Jan. 22.
- Grease cellar. A. L. Moler. 1,710,101; Apr. 23.
- Grease-charging apparatus. E. M. Scoville. 1,718,985; July 2.
- Grease collar. H. H. Grubb. 1,715,285; May 28.
- Grease cup. P. W. Barricklow. 1,717,543; Jan. 18.
- Grease cup. W. H. Durant. 1,706,917; Mar. 26.
- Grease cup. V. S. McDonough. 1,707,128; Mar. 26.
- Grease cup and closure. G. T. Chupp. 1,737,148; Nov. 26.
- Grease cup, Automatic. L. A. Le Doua. 1,703,888; Mar. 5.
- Grease cup for automobiles and the like. P. R. Young. 1,728,464; Sept. 17.
- Grease dispenser. L. A. Prescott. 1,715,329; May 28.
- Grease dispenser, Portable. C. G. Butler. 1,739,438; Dec. 10.
- Grease, Dispensing. T. E. Baker. 1,707,425; Apr. 2.
- Grease gun. W. D. Beil. 1,736,644-5; Nov. 19.
- Grease gun. E. A. De Forest. 1,704,179; Mar. 5.
- Grease gun. L. Edelman. 1,705,443; Mar. 12.
- Grease gun. H. Fulk. 1,714,163; May 21.
- Grease gun. J. B. Holtson. 1,699,293; Jan. 15.
- Grease gun. A. E. Kellogg. 1,729,219; Sept. 24.
- Grease gun. T. E. Parrott. 1,711,903; May 7.
- Grease gun. R. Rapellin. 1,724,616-17; Aug. 13.
- Grease gun, Pneumatic. R. J. Gray. 1,717,024; June 11.
- Grease gun, Reservoir. H. Albertine. 1,737,399; Nov. 26.
- Grease lubricator, Hard-. P. J. Bowman. 1,729,203; Sept. 24.
- Grease, Manufacturing lubricating. W. V. Atkinson. 1,736,302; Nov. 19.
- Grease-recovering device. J. Reid. 1,699,920; Jan. 22.
- Grease retainer. V. E. Nelson. 1,708,484; Apr. 9.
- Greaser, Hog. W. E. Shimp. 1,731,181; Oct. 8.
- Greasing device. M. Kohl and L. Stemmeler. 1,732,725; Oct. 22.
- Greenhouse construction. J. N. Keeler. 1,737,766; Dec. 3.
- Greenhouse construction. P. L. McKee. 1,728,690; Sept. 17.
- Greenhouse construction for the maximum reception of sunlight. A. C. Burrage. 1,718,213; June 25.
- Grid. R. Hoffman. 1,738,297; Dec. 3.
- Grid, Broiler. L. W. Serrell. 1,712,474; May 7.
- Grid, Collapsible camp. I. J. Tatum. 1,709,289; Apr. 16.
- Girdle. V. C. McCrory. 1,710,586; Apr. 23.
- Girdle, Electric. H. A. Ziola. Des. 77,869; Feb. 26.
- Grid for ice pans. J. R. Weeks and H. A. Greenwald. 1,738,162; Dec. 3.
- Grid leak. C. P. Brockway. 1,717,913; June 18.
- Grid leak and condenser. E. V. Gluck and A. P. Hirsch. 1,730,364; Oct. 8.
- Grids, Device for assembling metal. S. Gurian. 1,734,485; Nov. 5.
- Grids, Making resistor. V. B. Browne. 1,703,707; Feb. 26.
- Grille. G. W. Ackerman. Des. 77,454; Jan. 15.
- Grille. G. W. Ackerman. 1,706,835; Mar. 26.
- Grille, Extensible. M. D. Micklin. 1,715,208; May 28.
- Grille for loud speakers. J. J. Balk. Des. 77,872; Mar. 5.
- Grille for loud-speakers. B. Hasenstab. Des. 79,026; July 23.
- Grille for loud speakers. G. E. Villaret. Des. 77,928; Mar. 5.
- Grille, Ornamental protecting. L. A. Grigsby. 1,702,345; Feb. 19.
- Grinder. O. D. Kinsey. 1,727,718; Sept. 10.
- Grinder. H. J. Swanson. Re17,311; May 28.
- Grinder, Automatic dowel-pin. H. B. Scott. 1,702,023; Feb. 12.
- Grinder, Car-wheel. C. T. Ripley and J. L. Armstrong. 1,717,345; June 11.
- Grinder, Centerless. G. W. Binns. 1,723,128; Aug. 6.
- Grinder, Centerless. H. W. Holmes. 1,733,090; Oct. 22.
- Grinder, Centerless. H. Isler. 1,733,094; Oct. 22.
- Grinder, Centerless. W. J. Peets. Re17,470; Oct. 22.
- Grinder, Centerless. E. Sobolewski. 1,733,086; Oct. 22.
- Grinder, Coffee. C. T. Howson. 1,709,018; Apr. 16.
- Grinder, Fertilizer. C. F. Pendleton. 1,699,157; Jan. 15.
- Grinder for shouldered work. H. W. Holmes. 1,733,091; Oct. 22.
- Grinder for timers. C. D. Price. 1,719,725; July 2.
- Grinder, Grain. J. C. Bohmker. 1,739,574; Dec. 17.
- Grinder, Hob. C. J. Irwin. 1,704,833; Mar. 12.
- Grinder, Hydraulic. J. E. Greensmith. 1,718,554; June 25.
- Grinder, Hydraulic selective internal. A. P. Steiner. 1,703,794; Feb. 26.
- Grinder, Ink. G. A. Vasek. 1,699,641; Jan. 22.
- Grinder, Internal. W. L. Bryant. 1,705,749; Mar. 19.
- Grinder, loader, Pocket-. P. P. Westbye. 1,733,038; Oct. 22.
- Grinder, Meat. W. F. Stimpson. 1,720,455; July 9.
- Grinder, Multiple-cylinder. M. C. Hutto. 1,740,461; Dec. 24.
- Grinder, Piston-ring rough. C. E. Johnson. 1,736,159; Nov. 19.
- Grinder, Roll. H. E. P. Taylor. 1,700,422; Jan. 29.
- Grinder, Swing-frame. A. G. Belden, H. W. Dunbar, and C. G. Flygare. 1,734,003; Oct. 29.
- Grinder, Swing-frame. F. E. Stratton. 1,724,050; Aug. 13.
- Grinder, Swing-frame. F. E. Stratton. 1,724,115; Aug. 13.
- Grinder, Track. C. W. Pitman. 1,735,693; Nov. 12.
- Grinder, Valve. J. H. K. Carpenter. 1,709,428; Apr. 16.
- Grinder, Valve. J. R. Kiefer. 1,727,292; Sept. 3.
- Grinder, Valve. A. M. Liberty. 1,702,736; Feb. 19.
- Grinder, Valve. E. E. Miller. 1,699,475; Jan. 15.
- Grinder, Valve. J. L. Reilly. 1,739,419; Dec. 10.
- Grinder, Valve. L. G. Roller. 1,707,572; Apr. 2.
- Grinders and method thereof, Apparatus for feeding continuous-working wood. W. Rabus. 1,722,395; July 30.
- Grinders, Hinged cage for. H. J. Shelton. 1,713,355; May 14.
- Grinders, Horizontal ratchet-feed finger for saw. R. J. Harry. 1,726,620; Sept. 3.
- Grinders, Work-feeding device for vertical disk. J. Miller, jr. 1,722,589; July 30.
- Grinders, Work-rest blade for centerless. H. Skall. 1,721,475; July 16.
- Grinding. G. W. Binns. 1,709,818; Apr. 16.
- Grinding. C. Booth. 1,733,093; Oct. 22.
- Grinding. L. R. Heim. 1,733,088-9; Oct. 22.
- Grinding. L. R. Heim. 1,741,236; Dec. 31.
- Grinding and polishing machine. J. B. Dailey. 1,711,015; Apr. 30.
- Grinding and polishing machine, Lens. J. J. Bausch. 1,738,555; Dec. 10.
- Grinding and polishing machine, Lens. E. M. Long. 1,709,943; Apr. 23.
- Grinding and polishing plate glass, Method and apparatus for. G. E. Howard. 1,731,663; Oct. 15.
- Grinding apparatus. L. R. Heim. 1,733,087; Oct. 22.
- Grinding apparatus. E. J. Pope. 1,705,996; Mar. 19.
- Grinding apparatus. C. H. Schurr. 1,701,456; Feb. 5.
- Grinding apparatus, Piston-ring. G. W. Olson. 1,735,333; Nov. 12.
- Grinding attachment. G. S. Klein. 1,698,336; Jan. 8.
- Grinding bodies of emery, carborundum, or the like, Apparatus for manufacturing rigid. H. E. E. Winter. 1,737,486; Nov. 26.
- Grinding body for tube and drum mills. A. Bues. 1,700,667; Jan. 29.
- Grinding, Centerless. J. E. Caster. 1,733,863; Oct. 29.
- Grinding convoluted members, Method of and apparatus for. E. A. Hanson. 1,702,160; Feb. 12.
- Grinding cooked vegetables, Device for. A. E. Willis. 1,712,802; May 14.
- Grinding, crushing, pulverizing, mixing, and separating machine. D. J. Rees. 1,706,254; Mar. 19.
- Grinding fibrous rubber scrap or the like, Method and apparatus for. H. G. Day. 1,708,123; Apr. 9.
- Grinding film sprockets, Apparatus for. F. H. Owens. 1,728,441; Sept. 17.
- Grinding head. J. C. Gipe. 1,718,347; June 25.
- Grinding head or attachment. F. R. Moore. 1,717,995; June 18.
- Grinding machine. W. J. Baumberger. 1,728,653; Sept. 17.
- Grinding machine. W. J. Baumberger. 1,730,838; Oct. 8.
- Grinding machine. A. J. Berg. 1,725,126; Aug. 20.
- Grinding machine. P. Brühl. 1,719,964-5; July 9.
- Grinding machine. G. A. De Vlieg. 1,714,499; May 28.
- Grinding machine. G. Dickson. 1,737,707; Dec. 3.



- Grinding machine. A. H. Dierker. 1,736,394; Nov. 19.  
 Grinding machine. G. C. Favre. 1,701,669; Feb. 12.  
 Grinding machine. E. G. Flanders. 1,739,753; Dec. 17.  
 Grinding machine. W. F. Fraser. 1,736,967; Nov. 26.  
 Grinding machine. E. B. and R. D. Gardner and J. Nielsen. Re17,223; Feb. 26.  
 Grinding machine. B. M. W. Hanson. 1,709,617; Apr. 16.  
 Grinding machine. F. S. Harrell. 1,729,288; Sept. 24.  
 Grinding machine. J. N. Heald and R. D. Hubbell. 1,705,114; Mar. 12.  
 Grinding machine. J. N. and R. N. Heald and E. M. Taylor. 1,715,550; June 4.  
 Grinding machine. J. N. Heald and A. Turner. Re17,477; Nov. 5.  
 Grinding machine. H. E. Kempton and K. F. Gallimore. 1,731,719; Oct. 15.  
 Grinding machine. F. M. Kern. 1,733,096; Oct. 22.  
 Grinding machine. F. M. Kern. 1,735,867; Nov. 19.  
 Grinding machine. F. M. Kern and E. R. Seward. 1,733,492; Oct. 29.  
 Grinding machine. A. W. McAllister. 1,725,155; Aug. 20.  
 Grinding machine. H. G. Miller. 1,702,267; Feb. 19.  
 Grinding machine. H. G. Miller. 1,721,309; July 16.  
 Grinding machine. C. H. Norton. 1,736,167; Nov. 19.  
 Grinding machine. M. G. Ross. 1,719,784; July 2.  
 Grinding machine. L. Ruprecht and A. G. Kollstede. 1,711,464; Apr. 30.  
 Grinding machine. F. T. Seibert. 1,714,246; May 21.  
 Grinding machine. G. D. Sundstrand. 1,717,890; June 18.  
 Grinding machine. C. E. Van Norman. 1,722,691; July 30.  
 Grinding machine. J. Ward. 1,707,697; Apr. 2.  
 Grinding machine. H. G. Weinland. 1,737,485; Nov. 26.  
 Grinding machine. H. H. Yerk and W. J. Baumberger. 1,730,551; Oct. 8.  
 Grinding machine, Button-blank. E. C. Carris. 1,713,257; May 14.  
 Grinding machine, Centerless. S. Einstein. 1,733,092; Oct. 22.  
 Grinding machine, Centerless. H. W. Holmes. 1,729,780; Oct. 1.  
 Grinding machine, Centerless. H. W. Holmes. 1,733,095; Oct. 22.  
 Grinding machine, Centerless. H. W. Holmes. 1,733,097; Oct. 22.  
 Grinding machine, Centerless. F. M. Kern. 1,733,098; Oct. 22.  
 Grinding machine, Centerless. F. M. Kern. 1,737,852; Dec. 3.  
 Grinding machine, Centerless. C. H. Norton. 1,722,386-7; July 30.  
 Grinding machine, Crank-shaft. J. Johannessen. 1,737,159; Nov. 26.  
 Grinding machine, Cylinder lens. A. Butler. 1,699,045; Jan. 15.  
 Grinding machine, Fluid-pressure-actuated. F. E. Stratton. 1,725,489; Aug. 20.  
 Grinding machine, Gear. C. H. Schurr. 1,720,404; July 9.  
 Grinding machine, Gear. O. G. Simmons. 1,731,505; Oct. 15.  
 Grinding machine, Hob. C. G. Olson. 1,702,520; Feb. 19.  
 Grinding machine, Knob. W. A. Anderson. 1,699,516; Jan. 22.  
 Grinding machine, Lens-edge. H. Rakel. 1,713,622; May 21.  
 Grinding machine, Precision thread. F. O. Hoagland, P. M. Mueller, and A. B. Lindstrom. 1,701,675; Feb. 12.  
 Grinding machine, Saw-tooth. A. M. Currier. 1,698,909; Jan. 15.  
 Grinding machine, Stone. E. A. Chase. 1,725,899; Aug. 27.  
 Grinding machine, Universal radial. P. T. Lennon. 1,734,735; Nov. 5.  
 Grinding machine, Valve. F. O. Albertson. 1,722,880; July 30.  
 Grinding machine, Valve. T. V. Caldwell. 1,703,921; Mar. 5.  
 Grinding machine, Wood. R. E. Read. 1,705,097; Mar. 12.  
 Grinding machine, Wood. H. F. Tyner. 1,719,636; July 2.  
 Grinding machinery. G. W. Binns. 1,705,230; Mar. 12.  
 Grinding machinery. F. S. Haas. 1,723,852; Aug. 6.  
 Grinding machinery. B. A. Kearns. 1,709,671; Apr. 16.  
 Grinding machinery, Lens. A. E. Maynard. 1,721,161; July 16.  
 Grinding machinery, Meat. O. C. Schmidt. 1,736,550; Nov. 19.  
 Grinding machines, Feed mechanism for. A. G. Belden and J. R. Whittles. 1,733,049; Oct. 22.  
 Grinding machines, Feeding mechanism for. G. I. Danly. 1,725,444; Aug. 20.  
 Grinding machines, Fluid-circulating system for. A. G. Belden. 1,734,002; Oct. 29.  
 Grinding machines, Hydraulic back rest for. A. P. Steiner. 1,713,722; May 21.  
 Grinding machines, Material-feeding device for. W. C. Druffel. 1,726,475; Aug. 27.  
 Grinding machines, Relieving mechanism for. J. Bath and E. A. Walker. 1,715,054; May 28.  
 Grinding machines, Traversing mechanism for. P. Stoner. 1,726,247; Aug. 27.  
 Grinding machines, Work rest for. A. P. Steiner. 1,712,314; May 7.  
 Grinding mill. S. Bjerre. 1,697,750; Jan. 1.  
 Grinding mill. D. Cole. 1,711,405; Apr. 30.  
 Grinding mill. L. Holland-Letz. 1,707,666; Apr. 2.  
 Grinding mill. A. E. G. MacCallum. 1,725,715; Aug. 20.  
 Grinding mill. A. E. G. MacCallum. 1,729,515; Sept. 24.  
 Grinding mill. C. E. Needham. 1,731,788; Oct. 15.  
 Grinding mill. W. A. Seymour. 1,730,300; Oct. 1.  
 Grinding mill for rubber. W. C. State. 1,717,126; June 11.  
 Grinding mill, Intermittent-discharge. R. H. Warren. 1,717,860; June 18.  
 Grinding mill, Rotary. W. H. Fluker. 1,718,552; June 25.  
 Grinding or mixing mill. F. B. Reed. 1,718,004; June 18.  
 Grinding or polishing diamonds. C. W. Boman. 1,727,425; Sept. 10.  
 Grinding or pulverizing gummy, pasty, or viscous material. H. F. Kleinfeldt. 1,739,761; Dec. 17.  
 Grinding, polishing, and buffing machine. C. G. Johnson. 1,723,622; Aug. 6.  
 Grinding plant and operating the same, Wood-pulp. F. Grossler. 1,721,863; July 23.  
 Grinding plate for attrition mills. W. H. Mechlin. 1,715,772; June 4.  
 Grinding plate glass. J. P. Crowley. 1,740,005; Dec. 17.  
 Grinding rotary cutters, Method of and machine for. G. A. De Vlieg. 1,710,533; Apr. 23.  
 Grinding small cylindrical objects. C. H. Norton. 1,722,388; July 30.  
 Grinding, smoothing, and polishing apparatus. S. Werotte. 1,734,065; Nov. 5.  
 Grinding, surfacing, and polishing the curved surfaces of lenses and the like, Apparatus for. A. Pass. 1,739,086; Dec. 10.  
 Grinding table. C. Heuze. 1,741,462; Dec. 31.  
 Grinding threads. J. Bath. 1,700,663; Jan. 29.  
 Grinding tools, Apparatus for. G. A. De Vlieg. 1,718,193; June 18.  
 Grinding wheel. W. L. Bryant. 1,735,891; Nov. 19.  
 Grinding wheel. H. D. Colman. 1,712,255; May 7.  
 Grinding wheel and assembling the same, Segmental. T. Larsson and H. W. H. Beth. 1,736,161; Nov. 19.  
 Grinding wheel and holder therefor. H. C. Beach. 1,710,528; Apr. 23.  
 Grinding wheel for paper pulp. E. Anderson. 1,727,389; Sept. 10.  
 Grinding wheel, Sectional. J. L. Ballash. 1,714,754; May 28.  
 Grinding wheel, Sectional. E. R. Hyde. 1,697,505; Jan. 1.  
 Grinding wheels, Guard for. G. S. Fitzgibbon. 1,707,116; Mar. 26.  
 Grinding wheels, Mechanism for truing and dressing. F. J. Hohnhorst. 1,708,575; Apr. 9.  
 Grinding wheels, Method of and apparatus for dressing. A. H. Candee and G. O. Richmond. 1,721,103; July 16.  
 Grip, Assist. H. H. Rubin. 1,703,321; Feb. 26.  
 Grit catcher. A. Parker. 1,739,014; Dec. 10.  
 Grit eliminator. W. L. Brasack and H. E. Grau. 1,741,915; Dec. 31.  
 Grip for fish tape. R. R. Entwistle and W. J. Geist. 1,720,037; July 9.  
 Grip for golf clubs. A. S. Lyndon. 1,734,684; Nov. 5.  
 Grip tester. W. K. Edwards. 1,718,413; June 25.  
 Grip, Tramway friction. F. W. Reilly. 1,714,625; May 28.  
 Gripper for lasting machines. G. Goddu. 1,712,611; May 14.  
 Gripping device. R. Joksche. 1,715,659; June 4.  
 Gripping device for bands, belts, and the like. J. W. Gately. 1,701,178; Feb. 5.  
 Gripping jaws for trucks. A. G. Radka. 1,711,577; May 7.  
 Grizzly and ball mill, Combined. A. F. Levitt. 1,697,531; Jan. 1.  
 Grizzly, Revolving. T. Robins. 1,699,718; Jan. 22.  
 Grommet. K. Forbes. 1,697,814; Jan. 1.  
 Grommet-making machine. W. A. Young and R. L. Ankner. 1,714,339; May 21.  
 Groove cutter, Portable. D. Kulage. 1,712,275; May 7.  
 Groover machine, Multiple. J. E. Eckersley. 1,708,442; Apr. 9.  
 Grooving machine, Glass. H. A. Scheideman. 1,742,101; Dec. 31.  
 Grooving machine, Heel. D. O. Marshall. 1,727,097; Sept. 10.  
 Grooving tool. R. E. Hyde. 1,707,478; Apr. 2.  
 Ground articles, Method and apparatus for producing. L. R. Heim. 1,709,348; Apr. 16.  
 Ground connection. G. E. Allen. 1,723,596; Aug. 6.  
 Ground, Device for smoothing. V. F. Garcia. 1,733,789; Oct. 29.  
 Ground packer. C. E. Sayre. 1,738,731; Dec. 10.  
 Ground roller, Three-row. J. Craig. 1,739,212; Dec. 10.  
 Ground stick. R. C. Palmer. 1,707,315; Apr. 2.  
 Ground switch. C. F. MacCarthy. 1,736,794; Nov. 26.  
 Grounding box. J. J. Shickluna. 1,736,097; Nov. 19.  
 Grounding device, Electrical. E. H. Wright. 1,723,394; Aug. 6.  
 Group selector. D. L. Lienzen. 1,728,349; Sept. 17.  
 Grouping machine. A. E. F. Moore. 1,698,765; Jan. 15.  
 Guanidine, Manufacture of a substituted. W. Scott. 1,730,388; Oct. 8.  
 Guanidine, Manufacture of a substituted. W. Scott. 1,730,537; Oct. 8.  
 Guanidine, Preparation of a substituted. W. Scott. 1,730,536; Oct. 8.  
 Guanidines, Producing substituted. G. Barsky. 1,727,093; Sept. 8.  
 Guard. H. R. Baring-Gould. 1,731,974; Oct. 15.



- Guard, Adjustable foot. W. Maud. 1,698,140; Jan. 8.  
 Guard and brace for fences. C. E. Baum. 1,698,577; Jan. 8.  
 Guard and divider, Crop. L. J. Tuck and L. Getzinger. 1,726,007; Aug. 27.  
 Guard, Cable. I. E. Quist. 1,738,447; Dec. 3.  
 Guard, Cattle. S. F. Allen. 1,710,854; Apr. 30.  
 Guard, Cattle. G. L. Wyant. 1,718,514; June 25.  
 Guard, Dust. A. V. Stansfeld. 1,713,405; May 14.  
 Guard, Flangeway. J. L. Taylor, jr. 1,733,435; Oct. 29.  
 Guard for doubling mechanism of silk-throwing machines. H. Sarfert and A. A. Arnold. 1,720,447; July 9.  
 Guard for elevator doors. E. Hutchinson, jr. 1,716,060; June 4.  
 Guard for fire-alarm boxes, Key and lever. M. J. Grace. 1,738,531; Dec. 10.  
 Guard for foot presses. G. W. Lane. 1,736,708; Nov. 19.  
 Guard for gas-burner taps. W. J. Droszewski. 1,726,979; Sept. 3.  
 Guard for leather leggings. H. Strunz. 1,725,741; Aug. 20.  
 Guard for lubricating surfaces. F. J. Schwimmer. 1,739,046; Dec. 10.  
 Guard for paper-winding machines. J. C. Hemmel and W. O. Dickinson. 1,713,382; May 14.  
 Guard for paper-winding machines. F. A. Sutherland. 1,719,344; July 2.  
 Guard for power presses, Safety. W. O. Will and E. Carlson. 1,741,177; Dec. 31.  
 Guard for protecting couplings of well tubings. W. P. Sutton. 1,736,178; Nov. 19.  
 Guard for rotors, Restraining. H. F. Schmidt. 1,698,514; Jan. 8.  
 Guard for saws, Automatic. C. G. Wold. 1,720,535; July 9.  
 Guard for screen doors and the like. C. H. Hawthorne. 1,701,004; Feb. 5.  
 Guard for shaper heads. C. J. Nelson. 1,721,708; July 23.  
 Guard for submarine drills, Mud. C. C. Hansen. 1,732,887; Oct. 22.  
 Guard for toothed sector gears. H. Schuler. 1,734,051; Nov. 5.  
 Guard for trolley conductors and hangers. W. Schaafe. 1,729,900; Oct. 1.  
 Guard for vehicles, Mud. U. Cauchy. 1,709,060; Apr. 16.  
 Guard for window poles. J. A. Sullivan. 1,728,515; Sept. 17.  
 Guard for wire fences. C. E. Baum. 1,725,951; Aug. 27.  
 Guard, Guy-strand. J. Blackburn. 1,709,556; Apr. 16.  
 Guard, Highway. J. A. Roberts. 1,702,574; Feb. 19.  
 Guard, Internal-brake dust. H. C. Olivier. 1,737,325; Nov. 26.  
 Guard, Keyhole. G. Komarcsevits. 1,728,065; Sept. 10.  
 Guard, Manhole. J. L. Lufkin. 1,741,323; Dec. 31.  
 Guard, Meat-saw. O. C. Hansen. 1,738,896; Dec. 10.  
 Guard, Mower and binder. J. D. Barber. 1,726,378; Aug. 27.  
 Guard, Propeller. G. Peterson. 1,713,446; Mar. 14.  
 Guard, Shaft. D. C. Klausmeyer. 1,721,740; July 23.  
 Guard, Sink splash. E. V. Sheppard. 1,709,545; Apr. 16.  
 Guard, Watch-movement. J. Bulova. 1,722,969; July 30.  
 Guard, Window. A. S. Bierfeld. 1,734,415; Nov. 5.  
 Guard, Window. W. Green. 1,728,270; Sept. 17.  
 Guard, Window. H. E. Martin. 1,726,188; Aug. 27.  
 Guards and curtain closure. W. C. Brinton. 1,725,750; Aug. 27.  
 Guards, Water-glass. J. P. Wulff. 1,723,454; Aug. 6.  
 Guide and clamp for automobile side curtains, Combined. H. S. Davis. 1,702,466; Feb. 19.  
 Guide and pattern strip. S. H. Calkins. Re17,238; Mar. 19.  
 Guide bar. C. H. Vaughan and J. H. Hamilton. 1,701,432; Feb. 5.  
 Guide block for saw tables, Tenon-cutting. J. Clayton. 1,713,329; May 14.  
 Guide, Core. J. R. McWane. 1,702,657; Feb. 19.  
 Guide, Flask. E. P. Rothacker. 1,723,809; Aug. 6.  
 Guide for automobile jacks. J. E. Ravlin. 1,699,406; Jan. 15.  
 Guide for Axminster tube-frame supports. A. P. Paine. 1,739,170; Dec. 10.  
 Guide for bows for violins. F. Caruso. 1,723,266; Aug. 6.  
 Guide for textile machines. J. R. Mitchell. 1,740,311; Dec. 17.  
 Guide for tractors, Line. C. A. Woodin. 1,718,511; June 25.  
 Guide for woodworking tools. A. Wikstrom. 1,700,189; Jan. 29.  
 Guide for working implements. C. C. Hansen. 1,697,648; Jan. 1.  
 Guide head for drill steels. C. C. Hansen. 1,719,468; July 2.  
 Guide, Looper-thread. R. Becker. 1,728,158; Sept. 10.  
 Guide pin, Self-lubricating. M. E. Tobeler. 1,705,345; Mar. 12.  
 Guide plate for reproducing three-dimensional figures and apparatus for and process of making the same. H. M. Edmunds. 1,716,768; June 11.  
 Guide rail for highways. J. W. Higgins. 1,726,267; Aug. 27.  
 Guide rail for tables of apparatus for grinding, smoothing, and polishing plate or sheet glass and other similar materials. C. Heuze. 1,734,036; Nov. 5.  
 Guide, Reamer-spring pilot. F. W. Becker. 1,729,862; Oct. 1.  
 Guide, Sash. J. F. Levan. 1,732,850; Oct. 22.  
 Guide, Sash. J. A. Roberts. 1,705,587; Mar. 19.  
 Guide shell, Adjustable. W. A. Smith. 1,699,636; Jan. 22.  
 Guide strip. R. C. Zannoth. 1,697,625; Jan. 1.  
 Guide, Sucker-rod. E. C. Meier. 1,729,175; Sept. 24.  
 Guide suspension for drawers and other movable elements. G. L. Anderson and R. F. Bullen. 1,736,108; Nov. 19.  
 Guideway for machine tools. A. M. Drake. 1,721,009; July 16.  
 Guiding and centering device, Combined. J. F. Lyons. 1,726,079; Aug. 27.  
 Guiding attachment for carpenters' planes. C. E. Johanson. 1,699,395; Jan. 15.  
 Guiding device for tractors. L. Baker. 1,734,151; Nov. 5.  
 Guiding, floating, and cementing shoes, Method and mold for producing. R. C. Baker. 1,720,878; July 16.  
 Guiding traveling webs, Mechanism for. F. Tandel. 1,739,993; Dec. 17.  
 Guitar, Hawaiian. W. A. Greenfield. 1,733,595; Oct. 29.  
 Guitar or similar article. W. S. Elliott. Des. 77,401; Jan. 8.  
 Gum, Borer's. L. E. Smith. 1,705,100; Mar. 12.  
 Gum, Charcoal chewing. W. A. Scott and K. A. Prouty. 1,741,589; Dec. 31.  
 Gum, Forming. T. Bauer. 1,700,303; Jan. 29.  
 Gum, Making. H. M. Mowrey. 1,711,201; Apr. 30.  
 Gummed-tape-serving machine. W. A. Utz. 1,717,747; June 18.  
 Gumming device for envelope-making machines. F. J. Parks. 1,739,647; Dec. 17.  
 Gums, Device for strengthening the. K. Kubn. 1,714,029; May 21.  
 Gun. G. A. Schwoebel. 1,734,501; Nov. 5.  
 Gun, Air. C. Smyth. 1,709,496; Apr. 16.  
 Gun, Automatic. C. Levé. 1,738,439; Dec. 3.  
 Gun, Automatic. W. I. Westervelt. 1,709,162; Apr. 16.  
 Gun, Barrelless bear. J. F. Pfeiffer. 1,734,876; Nov. 5.  
 Gun, Breech-loading. A. Tomiska. 1,723,450; Aug. 6.  
 Gun, Breech-loading safety. R. M. Gardiner. 1,704,889; Mar. 12.  
 Gun, Carriage. H. Hoisington. 1,738,474; Dec. 3.  
 Gun carriage, Mud-. J. C. Hopkins. 1,726,069; Aug. 27.  
 Gun carriage, Wheeled split-trail. N. E. Methlin. 1,713,190; May 14.  
 Gun cleaner. M. B. Metzger. 1,738,601; Dec. 10.  
 Gun, Crossbow. E. C. Sperry. 1,704,810; Mar. 12.  
 Gun-firing device. J. H. Evert. 1,740,080; Dec. 17.  
 Gun for blowing asphalt and the like. C. D. Boynton. 1,736,768; Nov. 26.  
 Gun for ejecting plastic material. P. A. Tones. 1,709,445; Apr. 16.  
 Gun, Liquid. C. F. Lefever. 1,706,532; Mar. 26.  
 Gun lock. A. H. Dykes. 1,741,125; Dec. 24.  
 Gun, Machine. H. K. Harrington. 1,698,228; Jan. 8.  
 Gun mount. F. T. Moore and C. Pfeiffer. 1,708,232; Apr. 9.  
 Gun port. E. H. Ellison. 1,734,720; Nov. 5.  
 Gun port for windshields. H. J. Thielker. 1,703,122; Feb. 26.  
 Gun, rifle, and the like, Sporting. A. L. Chevallier and R. Churchill. 1,702,153; Feb. 12.  
 Gun, Self-centered, nonsighted, second-of-time. W. Q. Kennedy. 1,723,623; Aug. 6.  
 Gun sight, Automatic compensating. R. Kauch and C. L. Paulus. 1,724,092-3; Aug. 13.  
 Gun-wad material. J. J. Densten. 1,735,639; Nov. 12.  
 Guns, Automatic breech opening and closing mechanism for. N. E. Methlin. 1,731,863; Oct. 15.  
 Guns, Combination mount for machine. J. L. Hatcher. 1,722,629; July 30.  
 Guns, Combination mount for machine. F. J. Jervay. 1,701,810; Feb. 12.  
 Guns, Ejection mechanism for sporting. F. Delu. 1,728,323; Sept. 17.  
 Guns for indirect firing, Apparatus for imparting the lateral direction to. K. Petschenig and J. Schier. 1,730,290; Oct. 1.  
 Guns, Recoil mount for. S. G. Green. 1,735,164; Nov. 12.  
 Guns, Sight rib for. L. P. Smith. 1,705,423; Mar. 12.  
 Guns, Sighting apparatus for. J. C. Karnes. 1,708,389; Apr. 9.  
 Guns, Single-trigger fire mechanism for double-barrel. E. E. Miller. 1,725,663; Aug. 20.  
 Guns, Speed regulator for machine. C. Pfeiffer. 1,741,432; Dec. 31.  
 Guns, Speed regulator for machine. C. Pfeiffer. 1,741,534; Dec. 31.  
 Guns, Spotting and sighting device for anti-aircraft. F. Pidel. 1,708,397; Apr. 9.  
 Gunnersystem. Sight-controlled. J. Dugan. 1,733,531; Oct. 29.  
 Gutta-percha and a nonhygroscopic rubber, Manufacture from latex of an artificial. E. S. Ali-Cohen. 1,739,566; Dec. 17.  
 Gutter hanger. S. and M. Steckler. 1,735,622; Nov. 12.  
 Gutters, Guard for. M. M. Martini. 1,732,058; Oct. 15.  
 Guy-line tightener. S. W. Hillier. 1,740,982; Dec. 24.  
 Gymnasium traveling rings. F. Albach. 1,734,665; Nov. 5.  
 Gyrtator with high center drive. H. F. Snyder. 1,729,751; Oct. 1.  
 Gyrtatory agitator. P. Jubien and P. Naecher. 1,733,373; Oct. 29.



- Gyratory crusher. T. C. Cooke. 1,706,975; Mar. 26.  
Gyratory crusher. J. S. Haas and R. Bernhard. 1,716,342; June 4.  
Gyratory structures, Supporting and controlling. G. W. Combs. Re17,195; Jan. 15.  
Gyrocompass, Antipendulous. H. L. Tanner. 1,725,317; Aug. 20.  
Gyrocompass, Direct-current. C. B. Mills. 1,728,185; Sept. 17.  
Gyrocompasses, Turning error preventer for. L. F. Carter. 1,730,967; Oct. 8.  
Gyroscope. L. E. Robbins. 1,722,708; July 30.  
Gyroscopic apparatus. J. G. Gray. 1,736,039; Nov. 19.  
Gyroscopic apparatus. J. B. Henderson. 1,707,475; Apr. 2.  
Gyroscopic apparatus for extending the period of oscillation of bodies. M. Schuler. 1,735,058; Nov. 12.  
Gyroscopic control system. F. G. Henry. 1,731,776; Oct. 15.  
Gyroscopic device. F. Drexler. 1,706,201; Mar. 19.  
Hacking machine. A. Kobine. 1,718,365; June 25.  
Hafnium and zirconium on an incandescent body, Precipitating. J. H. de Boer and A. E. van Arkel. 1,709,781; Apr. 16.  
Hair clip. A. Diaz. 1,741,407; Dec. 31.  
Hair clipper. W. Borrmann. 1,713,369; May 14.  
Hair clipper. F. A. Hoberecht. 1,730,889; Oct. 8.  
Hair clipper. J. W. Roberts. 1,716,465; June 11.  
Hair curler. H. Bachleda. 1,738,681; Dec. 10.  
Hair curler. P. Horacek. 1,717,212; June 11.  
Hair curler. E. L. James. 1,710,216; Apr. 23.  
Hair curler. W. S. Lewis. 1,735,254-5; Nov. 12.  
Hair curler. M. W. Taylor. 1,711,976; May 7.  
Hair curler, Electrically-operated. J. Kremer. 1,740,988; Dec. 24.  
Hair-curling apparatus. P. Santurello. 1,709,918; Apr. 23.  
Hair-curling apparatus. P. Santurello. 1,714,439; May 21.  
Hair-curling appliance. R. Bishinger. 1,718,025; June 18.  
Hair-curling device. S. Freeman. 1,740,169; Dec. 17.  
Hair-curling device. A. E. Pausser. 1,740,313; Dec. 17.  
Hair-curling device, Electric. O. C. and G. H. Kernspecht. 1,701,043; Feb. 5.  
Hair-curling form. D. E. Evans. 1,737,152; Nov. 26.  
Hair-curling rod. A. Bodor. 1,723,676; Aug. 6.  
Hair cutter, Vibratory. D. H. Wagner. 1,705,511; Mar. 19.  
Hair cutting and trimming device. A. R. Stevens. 1,725,311; Aug. 20.  
Hair-cutting device. C. Kassow. 1,737,461; Nov. 26.  
Hair-cutting machine. L. De Costa and W. Birns. 1,697,721; Jan. 1.  
Hair device. R. B. Oppenheimer. 1,736,215; Nov. 19.  
Hairdressing accessory. J. Oppenheim. 1,713,616; May 21.  
Hairdressing appliance. E. Cahill. 1,708,467; Apr. 9.  
Hairdressing appliance. G. W. Mueninghaus. 1,700,375; Jan. 29.  
Hairdressing device. L. E. Hollier. 1,709,434; Apr. 16.  
Hair drier. F. X. A. Duhamel. 1,716,580; June 11.  
Hair drier. W. F. Hendry. 1,707,554; Apr. 2.  
Hair-drier casing. D. V. Ortona. Des. 78,586; May 21.  
Hair drying. E. F. Suter. 1,720,301-2; July 9.  
Hair-drying device. M. Forsberg. 1,697,859; Jan. 8.  
Hair-drying machines, Attachment for. L. Ruffio. Re17,447; Oct. 1.  
Hair-ends waver. A. Goodman and J. Goodman. 1,739,301; Dec. 10.  
Hair-holding device. V. E. Kirk. 1,731,978; Oct. 15.  
Hair-net package. M. A. Heyman. 1,736,313; Nov. 19.  
Hair piece and attaching comb therefor. M. Finkelstein. 1,714,358; May 21.  
Hairpin. H. F. Bartley. 1,725,125; Aug. 20.  
Hairpin. S. H. Goldberg. 1,732,808; Oct. 22.  
Hairpin. N. E. Smith. 1,711,908; May 7.  
Hairpin clip. H. G. Oliver. 1,735,010; Nov. 12.  
Hair, Process of and apparatus for waving. S. C. Headington. 1,709,981; Apr. 23.  
Hair-rubber product. H. Bronson. 1,701,526; Feb. 12.  
Hair singer, Electric. L. J. Dumaine. 1,700,198; Jan. 29.  
Hair slide and postiche holder, Combined. L. Génard. Des. 78,883; July 2.  
Hair-treating apparatus. P. E. Gaire. 1,726,616; Sept. 3.  
Hair-treating device. J. C. Brown. 1,712,489; May 14.  
Hair waver. J. A. Barraket. 1,735,989; Nov. 19.  
Hair waver. R. Ehrlich. 1,719,928; July 9.  
Hair waver. A. and J. Goodman. 1,704,738; Mar. 12.  
Hair waver. S. and P. Moskovitz. 1,701,270; Feb. 5.  
Hair waver. B. Piazzoni. 1,723,370; Aug. 6.  
Hair waver. J. E. Schurger. 1,721,837; July 23.  
Hair waver. A. L. Sutter. 1,700,771; Feb. 5.  
Hair waver. M. B. Sylva. 1,722,714; July 30.  
Hair-waver clip. R. L. Blymyer. 1,714,294; May 21.  
Hair waver, Marcel. E. E. Baldwin. 1,724,249; Aug. 13.  
Hair waver, Marcel. V. Caldwell. 1,708,660; Apr. 9.  
Hair-waving apparatus. M. C. Steichen. 1,702,881; Feb. 19.  
Hair-waving appliance and method. J. Mayer. Re-17,393; Aug. 6.  
Hair-waving baker. C. Rosenwald. 1,709,878; Apr. 23.  
Hair-waving device. A. W. Culver. 1,710,968; Apr. 30.  
Hair-waving device. D. R. David. 1,708,379; Apr. 9.  
Hair-waving device. J. L. Gaire. 1,718,133; June 18.  
Hair-waving device. A. M. René. 1,711,177; Apr. 30.  
Hair-waving device. A. J. Rusak. 1,723,889; Aug. 6.  
Hair-waving device. A. J. Rusak. 1,727,213; Sept. 3.  
Hair-waving device. M. A. Tienken. 1,709,693; Apr. 16.  
Hair-waving device and the like and using same, Permanent. W. H. C. Bingham. 1,701,660; Feb. 12.  
Hair-waving equipment. W. G. Shelton. 1,704,767; Mar. 12.  
Hair-waving implement. S. Carlson. 1,731,522; Oct. 15.  
Hair-waving means. D. Lakenbach. 1,716,067; June 4.  
Hair-waving pad. H. W. Carrough. Re17,213; Feb. 12.  
Half tones, Making. H. E. Ives. 1,711,684; May 7.  
Halogen-substituted cellulose organic acid esters, Soluble. H. T. Clarke and C. J. Malm. 1,704,283; Mar. 5.  
Halogen substitution products of aromatic compounds, Production of side-chain. L. P. Kyrides. 1,733,263; Oct. 29.  
Halter, Rope. E. S. Beckwith. 1,734,891; Nov. 5.  
Halter, Stanchion. G. A. Jones. 1,727,290; Sept. 3.  
Ham boiler. R. Lippert. 1,727,510; Sept. 10.  
Hamburger cake-forming apparatus. W. A. Winkie. 1,699,086; Jan. 15.  
Hame and making the same. J. M. Glaser. 1,703,443; Feb. 26.  
Hammer. P. Andersen. 1,713,810; May 21.  
Hammer. C. F. Doeblor. 1,721,270; July 16.  
Hammer. W. H. Gibbs. 1,737,497; Nov. 26.  
Hammer. S. W. Gregersen. 1,742,032; Dec. 31.  
Hammer. H. E. Keyes. 1,705,123; Mar. 12.  
Hammer. G. L. Kollock. 1,712,456; May 7.  
Hammer and drill, Electric riveting. P. Greenwood. 1,703,997; Mar. 5.  
Hammer and similar tool, Electric. M. D. Dominguez. 1,723,607; Aug. 6.  
Hammer attachment. R. H. Peters. 1,732,985; Oct. 22.  
Hammer, Centrifugal. L. W. Van Buskirk. 1,724,786; Aug. 13.  
Hammer, Claw. C. D. Cummings. 1,737,647; Dec. 3.  
Hammer claw. J. A. Pike. 1,713,552; May 21.  
Hammer crusher. W. A. Battey, J. E. Stine, and G. W. Borton. 1,727,156; Sept. 3.  
Hammer device. A. F. Lutch. 1,718,161; June 18.  
Hammer dog, Automatic. J. M. Brophy. 1,712,328; May 7.  
Hammer drill. E. F. Jones. 1,715,842; June 4.  
Hammer drills, Rotation mechanism for. E. W. Stevens. 1,713,987; May 21.  
Hammer, Drop. W. H. J. Fitzgerald. 1,720,592; July 9.  
Hammer, Drop. H. G. Sahlin. 1,722,506; July 30.  
Hammer, Drop. G. E. Smith. 1,709,599; Apr. 16.  
Hammer, Drop. M. C. Talcott. 1,707,499; Apr. 2.  
Hammer, Drop-forging. H. Birmingham. 1,741,811; Dec. 31.  
Hammer, Electric. R. Riggs. 1,738,207; Dec. 3.  
Hammer, Electromagnetic. B. H. Parker and C. D. Beeth, jr. 1,720,854; July 16.  
Hammer, Fluid-pressure. M. O'Farrell. 1,709,093; Apr. 16.  
Hammer for rotary crushers. W. C. Briggs. 1,717,759; June 18.  
Hammer, Forge. W. J. Hagman. 1,740,341; Dec. 17.  
Hammer, Magazine. F. F. Olazabal. 1,698,855; Jan. 15.  
Hammer mill. C. D. Ammon. 1,713,507; May 21.  
Hammer mill. G. W. Borton. 1,713,327; May 14.  
Hammer mill. J. G. Wilson. 1,737,444; Nov. 26.  
Hammer mills, End disk for. J. E. Stine. 1,732,701; Oct. 22.  
Hammer, Nonmarring. J. W. Werra. 1,727,579; Sept. 10.  
Hammer, Pneumatic. W. Baird. 1,727,322; Sept. 10.  
Hammer, Portable power-operated. J. R. Hilstad. 1,718,425; June 25.  
Hammer, Power. A. N. Bowman. 1,721,429; July 16.  
Hammer, Power. F. Schneider. 1,725,212; Aug. 20.  
Hammer, Pressure-fluid. V. S. Killingsworth. 1,740,818; Dec. 24.  
Hammer, Reciprocating electric. A. Bettica. 1,725,504; Aug. 20.  
Hammer, Rotary. N. P. Ridgway. 1,724,419; Aug. 13.  
Hammer, Rotary. G. E. Wagner. 1,707,887; Apr. 2.  
Hammer, Safety. M. C. Belikan. 1,700,830; Feb. 5.  
Hammer saw set and straightening device. A. Crane. 1,711,558; May 7.  
Hammer, Scaling. E. W. Stevens. 1,714,282; May 21.  
Hammer, Soft. W. H. McCracken. 1,711,505; May 7.  
Hammer with adjustable fulcrum. J. W. Carlson. 1,737,958; Dec. 3.  
Hammers and the like, Fastening means for. S. J. Shepard. 1,716,605; June 11.  
Hammers, Attachment for. C. D. Cummings. 1,737,646; Dec. 3.  
Hammock. J. B. Cunningham. 1,732,154; Oct. 15.  
Hammock. G. Kline. 1,714,095; May 21.  
Hammock, Couch. H. Mintz. 1,716,650; June 11.  
Hammock litter. S. Strauss and S. Gerschütz. 1,735,552; Nov. 12.  
Hamper-forming device. O. L. Bartlett. 1,707,156; Mar. 26.  
Hams, Trimming. J. A. Waters. 1,719,408; July 2.  
Hand bag. O. C. Abrahamson. 1,719,641; July 2.  
Hand bag. F. A. Beck. Des. 78,684; June 4.  
Hand bag. J. Cohen. Des. 79,418; Sept. 17.  
Hand bag. J. N. Lowe. 1,701,953-4; Feb. 12.  
Hand bag. J. N. Lowe. 1,734,587; Nov. 5.  
Hand bag. M. Nover. 1,735,650; Nov. 12.  
Hand bag. J. Rosenkrantz. 1,718,437; June 25.  
Hand bag. C. P. Shipley. 1,717,587; June 18.



- Hand bag. O. J. Walinsky. 1,739,698; Dec. 17.  
 Hand-bag clasp. I. Schmidt. 1,736,095; Nov. 19.  
 Hand-bag frame. A. Gliberman. 1,701,300; Feb. 5.  
 Hand bag, Lady's. H. Barol. 1,719,040; July 2.  
 Hand bag, Lady's. F. Pucek. 1,730,745; Oct. 8.  
 Hand bag, Leather. H. R. Samstag. 78,945-6; July 9.  
 Handbag protector and supporter. W. J. Stansbury. 1,731,547; Oct. 15.  
 Hand-bag structure. W. Finkelstein. 1,705,912; Mar. 19.  
 Hand brake. W. A. Geiger. 1,706,446; Mar. 26.  
 Hand brake. S. B. Haseltine. 1,710,213; Apr. 23.  
 Hand brake. G. Q. Lewis. 1,707,357; Apr. 2.  
 Hand brake. J. F. O'Connor. 1,698,728; Jan. 15.  
 Hand brake. J. F. O'Connor. 1,698,730; Jan. 15.  
 Hand brake. J. F. O'Connor. 1,707,362; Apr. 2.  
 Hand brake. J. F. O'Connor. 1,742,005; Dec. 31.  
 Hand brake. W. H. Sauvage. 1,720,095; July 9.  
 Handcuff. A. E. Gross. 1,719,698; July 2.  
 Handgrip or holder. J. R. Thomas. 1,722,183; July 23.  
 Handhole plate. A. J. Moses and F. H. Wright. 1,735,126; Nov. 12.  
 Hand hook. A. T. Grant. 1,710,575; Apr. 23.  
 Hand-operated brake. W. T. Watson. 1,710,849; Apr. 30.  
 Hand pad. I. W. Millard. 1,736,209; Nov. 19.  
 Hand piece for flexible shafts for free-hand milling operations. C. A. Herman. Des. 78,517-18; May 14.  
 Hand press. C. H. Albright. 1,699,088; Jan. 15.  
 Hand protector, Boxer's. G. Travers. 1,706,503; Mar. 26.  
 Handsaw. J. Gibson. 1,698,788; Jan. 15.  
 Handsaw. K. A. and G. A. V. Wahlberg. 1,738,336; Dec. 3.  
 Handsaw, Motorized. F. L. Weed. 1,704,641; Mar. 5.  
 Handsaw, Portable power. J. M. Crowe. 1,740,074; Dec. 17.  
 Hand stamp. A. J. Mark. 1,710,633; Apr. 23.  
 Hand tool for compressing valve springs and for analogous purposes. H. T. Girdlestone and J. Rest. 1,710,797; Apr. 30.  
 Handwheel. H. W. Dover. 1,713,035; May 14.  
 Handwheel. A. W. Scott and H. D. Geyer. 1,719,026; July 2.  
 Handwheel for brakes. A. F. O'Connor. 1,720,142; July 9.  
 Handwheel with horn button mounted at center. H. D. Geyer. 1,727,030; Sept. 3.  
 Handkerchief. M. P. Bee. 1,725,502; Aug. 20.  
 Handkerchief vanity and powder-puff holder. E. B. P. Crump. Rel7,472; Oct. 29.  
 Handle: *See—*  
   Can handle. Mop handle.  
   Casket handle. Pick handle.  
   Cooking vessel and like handle. Rail handle.  
   Detachable handle. Reinforced handle.  
   Faucet handle. Saw handle.  
   Foldable handle. Shovel handle.  
   Golf-club handle. Teakettle handle.  
   Interchangeable handle. Tool handle.  
   Knife handle. Utensil handle.  
   Lamp and guard handle. Valve handle.  
   Vault handle.  
 Handle. L. J. Barwood. 1,739,706; Dec. 17.  
 Handle. E. L. Delany. 1,735,604; Nov. 12.  
 Handle. E. O. Estwing. 1,707,787; Apr. 2.  
 Handle. W. Finkelstein. 1,705,858; Mar. 19.  
 Handle. W. A. Harvey. 1,708,882; Apr. 9.  
 Handle. W. Juede. Des. 79,334; Sept. 3.  
 Handle. P. A. Karlovick. 1,702,511; Feb. 19.  
 Handle. J. W. Waterer. 1,736,640; Nov. 19.  
 Handle-affixing machine. A. Van Veen and G. F. Matteson. 1,706,714; Mar. 26.  
 Handle and cover clamp for cooking vessels, Combined. R. H. Wentorf. 1,698,929; Jan. 15.  
 Handle and device for holding tools, Implement. M. P. Rokos. 1,727,904; Sept. 10.  
 Handle and its mounting. H. A. Douglas. 1,736,849; Nov. 26.  
 Handle and latch, knob and cylinder, lock, Combined. W. E. Wread. 1,720,637; July 9.  
 Handle and switch. E. W. Wiehle. 1,735,556; Nov. 12.  
 Handle and tire lug wrench, Combined jack. W. H. Walker. 1,722,723; July 30.  
 Handle and tool therefor, Rotary tool. J. P. Salmon. 1,736,549; Nov. 19.  
 Handle assembly. T. P. Archer and F. M. Edgar. 1,706,598; Mar. 26.  
 Handle assembly. F. M. Edgar and T. P. Archer. 1,735,897; Nov. 19.  
 Handle-attaching means for door latches. L. Ottinger. 1,710,509; Apr. 23.  
 Handle attachment. W. Schneider. 1,741,588; Dec. 31.  
 Handle-bar brace. T. Thompson. 1,738,855; Dec. 10.  
 Handle bar for implements. R. J. Langer. 1,698,759; Jan. 15.  
 Handle bar for motor cycles and the like, Spring. A. Gazda. 1,719,007; July 2.  
 Handle connection. J. E. Walton. 1,716,254; June 4.  
 Handle connection for hand bags and the like. C. Wolf. 1,717,295; June 11.  
 Handle construction. W. J. Manthei. 1,709,030; Apr. 16.  
 Handle construction for storage-battery boxes. L. A. Doughty. 1,700,123; Jan. 29.  
 Handle extractor, Tool-. E. W. Smith. 1,701,699; Feb. 12.  
 Handle for a cup or similar article. C. Weiss. Des. 78,238; Apr. 9.  
 Handle for agriculture implements, Detachable. W. J. Barnes. 1,728,195; Sept. 17.  
 Handle for articles. L. C. Ament. Des. 79,059; July 30.  
 Handle for automobile doors, Locking. W. C. Devereaux. 1,703,338; Feb. 26.  
 Handle for a window regulator or the like. G. Graff. Des. 78,463-4; May 7.  
 Handle for grate-shaker bars, Detachable. W. Rance, sr. 1,706,543; Mar. 26.  
 Handle for kitchen utensils. R. H. Meigs. 1,700,613; Jan. 29.  
 Handle for levers of motor vehicles, Auxiliary. C. and J. Degenhart. 1,725,343; Aug. 20.  
 Handle for mattresses. J. Goldeen, C. Z. Edelson, and M. D. Tarlow. 1,731,530; Oct. 15.  
 Handle for pot covers. W. P. Bonnell, sr. 1,733,719; Oct. 29.  
 Handle for railroad motor cars, Lifting. G. J. Ermentrout. 1,726,950; Sept. 3.  
 Handle for shaker bars, Detachable. G. E. Taylor, jr. 1,706,197; Mar. 19.  
 Handle for shovels. V. S. Yarnall. 1,728,320; Sept. 17.  
 Handle for shovels and other tools. W. E. Skelton. 1,734,053; Nov. 5.  
 Handle for smokers' stands or articles of analogous nature. P. Cricchio. Des. 79,508; Oct. 1.  
 Handle for smoking stands or analogous articles. P. Cricchio. Des. 78,381; Apr. 30.  
 Handle for vending machines or the like. J. H. Stevenson. Des. 78,990; July 16.  
 Handle for vessels. W. Blumenthal. 1,704,278; Mar. 5.  
 Handle for window regulators or the like. G. Graff. Des. 77,545; Jan. 22.  
 Handle for window regulators or the like. G. Graff. Des. 77,761; Feb. 19.  
 Handle for wooden baskets. H. W. Kramer. 1,705,255; Mar. 12.  
 Handle grip and making the same. A. A. Kraeuter. 1,701,856; Feb. 12.  
 Handle structure for torch tanks. W. Blaskewitz and J. Ironside. 1,706,648; Mar. 26.  
 Handle-supporting closure band for vessels. F. von Alvensleben. 1,736,961; Nov. 26.  
 Handle with automatic lock, Pull. O. N. Wiswell. 1,738,862; Dec. 10.  
 Handles, Making tubular metallic. T. F. Connors. 1,724,342; Aug. 13.  
 Handling ashes or other solid materials, Apparatus for. F. B. Allen. 1,729,603; Oct. 1.  
 Handling, assorting, and screening material, Process and apparatus for. B. W. Pape. 1,705,336; Mar. 12.  
 Handling cans during processing, Apparatus for. C. H. Plummer. 1,732,589; Oct. 22.  
 Handling device. A. E. Louviaux. 1,729,114; Sept. 24.  
 Handling device for foundry ladles or the like. W. Hegarty and G. E. Deiseroth. 1,731,897; Oct. 15.  
 Handling device, Loose-leaf. H. R. McCleary. 1,737,606; Dec. 3.  
 Handling fluids and solids. G. M. Hogan. 1,713,657; May 21.  
 Handling fragile articles, Apparatus for. L. Staudenmeir. and E. B. Isaac. 1,698,321; Jan. 8.  
 Handling granular material, Apparatus for. J. Schmidt. 1,723,211; Aug. 6.  
 Handling heavy objects, Apparatus for. L. S. Rosener. 1,736,016; Nov. 19.  
 Handling heavy oil residues. O. E. Bransky and F. M. Rogers. 1,698,471; Jan. 8.  
 Handling laundry, Apparatus for. L. D. Robinson and F. C. Small. 1,732,210; Oct. 15.  
 Handling loose material, Apparatus for. C. F. Poole. 1,702,570; Feb. 19.  
 Handling matter. J. E. Boynton. 1,720,759; July 16.  
 Handling means, Material-. R. Cooper. 1,721,002; July 16.  
 Handling mechanism, Heddle-. P. W. Cummings. 1,707,626; Apr. 2.  
 Handling merchandise, Apparatus for. F. A. L. Bloom. 1,734,318; Nov. 5.  
 Handling solid material, Apparatus for. F. B. Allen. 1,707,343; Apr. 2.  
 Handling solid material from furnaces, Apparatus for. F. B. Allen. 1,707,342; Apr. 2.  
 Hanger: *See—*  
   Adjustable hanger. Garment hanger.  
   Arch hanger. Gutter hanger.  
   Bacon hanger. Hat hanger.  
   Beam hanger. Hinge hanger.  
   Car hanger. Lamp hanger.  
   Clothes and hat hanger. Line hanger.  
   Clothes hanger. Mail-box hanger.  
   Clothes-bag hanger. Picture hanger.  
   Clothesline hanger. Pipe hanger.  
   Coat hanger. Radiator hanger.  
   Conductor hanger. Rod hanger.  
   Conveyer hanger. Screen hanger.  
   Curtain hanger. Shade hanger.  
   Display hanger. Shaft hanger.  
   Door hanger. Shoe hanger.  
   Drapery hanger. Sucker-rod hanger.  
   Drop-wire hanger. Suit hanger.  
   Eaves-trough hanger. Swing hanger.  
   Film hanger. Trousers hanger.  
   Fixture hanger. Tubing hanger.  
 Hanger. C. W. Bateman. 1,730,911; Oct. 8.  
 Hanger. W. A. Heinrich. 1,731,775; Oct. 15.  
 Hanger. L. A. Heintzelman. 1,713,044; May 14.



- Hanger. A. L. Madsen, jr. 1,736,087; Nov. 19.  
Hanger. J. F. Solski. 1,716,194; June 4.  
Hanger and coat-securing means, Coat. W. M. Price. 1,713,621; May 21.  
Hanger and illuminating means for mail sacks. O. P. Canaday. 1,725,565; Aug. 20.  
Hanger and making the same, One-piece locomotive spring. C. P. Widdicombe. 1,705,795; Mar. 19.  
Hanger and releaser, Combination rope. H. A. Collings. 1,723,106 Sept. 10.  
Hanger and support. Garment. M. Victorsohn. 1,733,036; Oct. 22.  
Hanger attachment. Garment-. J. L. Perleth and J. Coven. 1,738,724; Dec. 10.  
Hanger bracket, Brake-. W. C. Sleeman. 1,698,740; Jan. 15.  
Hanger for clotheslines and the like. E. J. Oyen. 1,720,493; July 9.  
Hanger for down spouts and the like. J. Merryweather. 1,711,240; Apr. 30.  
Hanger for electric-lighting units. E. C. White. 1,716,017; June 4.  
Hanger for elevator door. H. Feldman. 1,702,255; Feb. 19.  
Hanger for garment bags. H. B. Ferguson. 1,720,393; July 9.  
Hanger for lighting fixtures, Globe. B. Shaps. 1,714,961; May 28.  
Hanger for object-carrying balls. F. B. Little. 1,710,993; Apr. 30.  
Hanger for use in concrete ceilings. H. H. Crawford. 1,732,260; Oct. 22.  
Hanger for well-drilling tools, Universal. D. L. Driscoll. 1,725,902; Aug. 27.  
Hanger or mounting, Electrical-fixture. S. N. Buchanan and A. P. Davis. 1,699,950; Jan. 22.  
Hanger or the like, Clothes. C. A. Robinson. 1,737,096; Nov. 26.  
Hanger-supporting device. A. Levine. 1,722,757; July 30.  
Hanger track, Garment-. J. Ritter, jr. 1,709,811; Apr. 16.  
Hanger with identification label, Coat. M. A. Clark. 1,710,296; Apr. 23.  
Hangers, Making. J. H. McElroy. 1,698,139; Jan. 8.  
Hank-forming machine. J. F. Schenck, sr. 1,702,174; Feb. 12.  
Hardening articles. W. G. Hildorf. 1,740,347; Dec. 17.  
Hardening metal articles by nitrogenization. A. Fry. 1,737,711; Dec. 3.  
Hardening process, Case-. G. W. Schwab and F. J. Schweizer, jr. 1,730,247; Oct. 1.  
Hardware, Forming. G. Graff. 1,736,495; Nov. 19.  
Hardware, Luggage. M. Krischer. 1,721,960; July 23.  
Harmonic device for stringed instruments. B. E. Mills. 1,739,799; Dec. 17.  
Harmonica. A. E. Hostetter. 1,735,645; Nov. 12.  
Harmonics, Suppressing higher. H. Geise. 1,722,207; July 23.  
Harness. R. Roberts. 1,700,718; Jan. 29.  
Harness and collar pad. B. E. Katz. 1,698,232; Jan. 8.  
Harness attachment, Double-wear. O. W. Schmidt. 1,704,219; Mar. 5.  
Harness breeching. D. W. J. Smetana. 1,712,175; May 7.  
Harness connection, Automatically-adjustable. W. A. Sinkler. 1,703,552; Feb. 26.  
Harness construction. E. Blecha. 1,734,195; Nov. 5.  
Harness for artificial arms. W. C. Vradenburg. 1,718,095; June 18.  
Harness for children. S. S. Whidden. 1,711,864; May 7.  
Harness for reed-weaving looms. G. D. Goodspeed. 1,697,645; Jan. 1.  
Harness for respirating appliances such as masks, respirators, and the like. A. B. Dräger. 1,706,601; Mar. 26.  
Harness motion for looms. R. J. Kunath. 1,714,791; May 28.  
Harness, Protective device for. V. Marsh. 1,712,774; May 14.  
Harness slide and snap, Combined. J. B. Baxter. 1,714,487-9; May 28.  
Harp for trolley poles. J. Carich. 1,726,538; Sept. 3.  
Harrow. E. Altgelt. 1,703,051; Feb. 19.  
Harrow. C. E. Anderson. 1,717,539; June 18.  
Harrow. T. E. Bergeland. 1,711,485; May 7.  
Harrow. S. S. Bixel. 1,707,384; Apr. 2.  
Harrow. N. Brown. 1,712,688; May 14.  
Harrow. A. H. Corbett and H. Pounds. 1,719,170; July 2.  
Harrow. F. Fredson. 1,717,703; June 18.  
Harrow. A. N. F. Mohr. 1,718,248; June 25.  
Harrow. C. T. Ray. 1,704,339; Mar. 5.  
Harrow. C. W. Robinson and W. C. Dwyer. 1,729,087; Sept. 24.  
Harrow. H. M. Spencer. 1,704,349; Mar. 5.  
Harrow. H. R. Traphagen. 1,710,124; Apr. 23.  
Harrow. C. E. Webber. 1,703,376; Feb. 26.  
Harrow attachment. C. H. Stone. 1,708,337; Apr. 9.  
Harrow attachment for tractors. W. Neusiis. 1,707,410; Apr. 2.  
Harrow attachment, Power-drive. E. A. Johnston. 1,729,073; Sept. 24.  
Harrow, Disk. W. C. Dwyer. 1,712,815; May 14.  
Harrow, Disk. F. W. Harris. 1,700,358; Jan. 29.  
Harrow, Disk. O. A. K. Printz. 1,723,576; Aug. 6.  
Harrow-disk control. B. E. Rose. 1,705,736; Mar. 19.  
Harrow-disk-supporting frame and shaft. J. Deines. 1,701,665; Feb. 12.  
Harrow, Drawbar. R. Rasmussen. 1,722,540; July 30.  
Harrow, Flexible. A. C. Sutherland. 1,712,483; May 14.  
Harrow frame, Disk-. W. R. Peterson. 1,734,397; Nov. 5.  
Harrow lift. L. I. Nicholson. 1,730,088; Oct. 1.  
Harrow. One-way-plowing. A. P. McKay. 1,713,476; May 14.  
Harrow or the like with yielding prongs. E. L. Petterson. 1,734,875; Nov. 5.  
Harrow pole. P. Lessman. 1,729,883; Oct. 1.  
Harrow, Rotary. J. Yackley. 1,719,578; July 2.  
Harrow, Tandem disk. T. Adams. 1,702,239; Feb. 19.  
Harrow, Tandem-disk. J. E. Boda. 1,715,186; May 28.  
Harrow, Tandem disk. J. Tedell. 1,705,161; Mar. 12.  
Harrow, Tractor disk. E. Mowry. 1,718,796-7; June 25.  
Harrow. Tractor disk. E. Wowry and J. R. Barker. 1,725,409; Aug. 20.  
Harrows, Depth regulator and transport for disk. F. A. Bucknam. 1,729,061; Sept. 24.  
Harvester. H. F. Duncan. 1,710,611; Apr. 23.  
Harvester. H. Heuer. 1,712,616; May 14.  
Harvester. A. G. and A. Ronning. 1,699,252; Jan. 15.  
Harvester. F. Schieweck. 1,727,220; Sept. 3.  
Harvester and cleaner, Cotton. J. A. Dykes. 1,700,926; Feb. 5.  
Harvester and reaper thrasher machine. H. S. Taylor and H. V. McKay. 1,720,864; July 16.  
Harvester and thrasher, Combined. M. J. Hines. 1,726,667; Sept. 3.  
Harvester and topper, Sugar-beet. J. G. Dick. 1,715,823; June 4.  
Harvester attachment. L. D. Morse. 1,739,558; Dec. 17.  
Harvester, Bean. K. L. Aven. 1,727,802; Sept. 10.  
Harvester, Bean. C. B. Brown. 1,713,372; May 14.  
Harvester, Bean. G. E. Pritchard. 1,726,716; Sept. 3.  
Harvester, Bean. W. E. Urschel. 1,727,020; Sept. 3.  
Harvester, Beet. A. Bailey. 1,704,421; Mar. 5.  
Harvester, Beet. C. A. Bergman. 1,711,442; Apr. 30.  
Harvester, Beet. H. H. Boettcher. 1,723,462; Aug. 6.  
Harvester, Beet. G. A. Fountaine. 1,733,533; Oct. 29.  
Harvester, Beet. E. F. Sutton. 1,727,140; Sept. 3.  
Harvester, Cane. I. H. Athey. 1,741,602; Dec. 31.  
Harvester, Cane. A. J. Buquet. 1,698,670; Jan. 8.  
Harvester, Cane. G. D. Luce. 1,714,272; May 21.  
Harvester, Cane. C. A. Ventress. 1,721,913; May 14.  
Harvester, Clover. A. J. Sawin. 1,730,690; Oct. 8.  
Harvester, Corn. A. C. Beckman. 1,717,905; June 11.  
Harvester, Corn. L. L. Bradley and E. M. Young. 1,730,056; Oct. 1.  
Harvester, Corn. C. J. Johnson. 1,734,972; Nov. 12.  
Harvester, Corn. D. I. Mitchell. 1,729,648; Oct. 1.  
Harvester, Corn. L. A. Paradise. 1,717,889; June 18.  
Harvester, Corn. L. A. Paradise. 1,731,435; Oct. 15.  
Harvester, Corn. G. G. Reicheneker. 1,707,875; Apr. 2.  
Harvester, Corn-. S. Trotman. 1,722,717; July 30.  
Harvester, Corn. C. and A. O. Wogstad. 1,715,216; May 28.  
Harvester, Cotton. W. E. Burrows. 1,727,745; Sept. 10.  
Harvester, Cotton. E. E. Crane. 1,721,545; July 23.  
Harvester, Cotton. J. F. Ferguson. 1,712,606; May 14.  
Harvester, Cotton. T. E. Hentz. 1,722,747; July 30.  
Harvester, Cotton. G. Lisenard and C. G. Hensley. 1,728,556; Sept. 17.  
Harvester, Cotton. P. W. Morrissey. 1,705,225; Mar. 12.  
Harvester, Cotton. W. E. Riza. 1,717,409; June 18.  
Harvester, Cotton. W. F. Speck. 1,740,274; Dec. 17.  
Harvester, Cotton. E. G. Stone. 1,734,504; Nov. 5.  
Harvester, Cotton. J. S. Thurman. 1,736,233; Nov. 19.  
Harvester, Ensilage. A. G. and A. Ronning. 1,699,251; Jan. 15.  
Harvester, Ensilage. W. B. Thiemann. 1,702,551; Feb. 19.  
Harvester finger bar. L. A. Paradise. 1,731,434; Oct. 15.  
Harvester for beans, peas, or the like. S. M. J. Roosa. 1,707,878; Apr. 2.  
Harvester for peanuts and other plants. R. D. Burts. 1,719,871; July 9.  
Harvester for sugar-canes. H. O. Scranton. 1,726,043; Aug. 27.  
Harvester, Header. E. I. Crow. 1,728,477; Sept. 17.  
Harvester platforms, Counterbalancing. E. A. Johnston. 1,718,786; June 25.  
Harvester, Sea-moss. C. Matsuoka. 1,703,402; Feb. 26.  
Harvester, Seed. J. and B. G. Herr. 1,727,431; Sept. 10.  
Harvester, Self-propelled rice. I. G. Zumwalt. 1,736,897; Nov. 26.  
Harvester, String-bean. F. P. Ryder. 1,723,492; Aug. 6.  
Harvester, Sugar-cane. F. C. D. Wilkes and F. K. Flynn. 1,722,780; July 30.  
Harvester, thrasher, and separator, Combined. C. A. Stevens, G. D. Baldwin, and J. I. Michaels. 1,702,323; Feb. 19.  
Harvester thrasher, Combination. N. R. Krause. 1,706,617; Mar. 26.  
Harvester thrasher, Combination. N. R. Krause. 1,708,311; Apr. 9.  
Harvester thrasher, Combination. N. R. Krause. 1,709,178; Apr. 16.  
Harvester thrasher, Combination. W. F. MacGregor. 1,707,310; Apr. 2.



- Harvester thrasher, Combination. W. F. MacGregor. 1,717,931; June 18.
- Harvester thrasher, Combination. W. F. MacGregor. 1,730,225; Oct. 1.
- Harvester thrasher, Power-take-off-driven. C. R. Raney and A. E. W. Johnson. 1,721,713; July 23.
- Harvester, Windrow. C. R. Raney. 1,734,401; Nov. 5.
- Harvesters and thrashers, Auxiliary feeding attachment for combined. F. W. and W. H. Fikan. 1,728,886; Sept. 17.
- Harvesters, Attachmet for. E. Brasch. 1,735,950; Nov. 19.
- Harvesters, Grain-guiding attachment for. D. Hofer. 1,733,061; Oct. 22.
- Harvesters, Straw-cutting attachment for. H. V. McKay. 1,697,925; Jan. 8.
- Harvesting and husking machine, Corn. D. and D. Currie. 1,702,200; Feb. 12.
- Harvesting apparatus, Corn-. J. Webb. 1,702,328; Feb. 19.
- Harvesting machine. F. Fogarty. 1,738,238; Dec. 3.
- Harvesting machine. A. J. Mason. 1,731,821; Oct. 15.
- Harvesting machine. N. E. Nunnery. 1,738,388; Dec. 3.
- Harvesting machine, Beet-. C. S. Coatsworth. 1,711,990; May 7.
- Harvesting machine, Corn-. D. L. Murphy and C. Fickau. 1,731,259; Oct. 15.
- Harvesting machine, Cotton-. J. Horn. 1,715,836; June 4.
- Harvesting machine, Cotton-. J. G. Rountree. 1,713,397-8; May 14.
- Hasp. G. J. Lessard. 1,725,657; Aug. 20.
- Hasp. H. L. Worthman. 1,712,319; May 7.
- Hasp and lock. C. Pique. 1,726,162; Aug. 27.
- Hasp fastening for expansible suitcases, trunks, and the like. C. W. Cheney. 1,720,467; July 9.
- Hat. J. J. Desmond. 1,721,269; July 16.
- Hat. J. J. Desmond. 1,729,540; Sept. 24.
- Hat. G. H. Simon. 1,701,130; Feb. 5.
- Hat. A. Steingold. 1,725,425; Aug. 20.
- Hat. R. Weil. 1,697,892; Jan. 8.
- Hat. E. Witteoff. 1,698,519; Jan. 8.
- Hat. E. Witteoff. 1,735,705; Nov. 12.
- Hat, Adjustable. J. S. Buckman. 1,712,290; May 7.
- Hat and coat hook. A. Belair. 1,712,194; May 7.
- Hat and making same. H. Kleinberg. 1,709,856; Apr. 23.
- Hat and sweatband therefor. A. W. Rockwood and C. A. Milbery. 1,707,140; Mar. 26.
- Hat attachment. L. Levin. 1,715,201; May 28.
- Hat bag. H. C. Gamble. 1,733,787; Oct. 29.
- Hat bag. M. L. Grossman and J. N. Lowe. 1,732,842; Oct. 22.
- Hat block. A. Jiménez. 1,707,616; Apr. 2.
- Hat block, Electrically-heated. M. W. Logan. 1,699,073; Jan. 15.
- Hat blocking and steaming attachment. H. Diener. 1,740,008; Dec. 17.
- Hat-blocking machine. H. W. Hunter. 1,698,595; Jan. 8.
- Hatbox. A. Berkowitz. 1,721,143; July 16.
- Hatbox, Wardrobe. A. W. Winship. 1,728,223; Sept. 17.
- Hat, Cloth. L. I. Pekowsky. 1,710,188; Apr. 23.
- Hat construction, Straw-. P. Rosenberg and A. Jaeger. 1,733,075; Oct. 22.
- Hat covering. S. Alonzo. 1,706,205; Mar. 19.
- Hat crown. E. W. Bullard. 1,699,133; Jan. 15.
- Hat-finishing machine. L. Platt. 1,736,361; Nov. 19.
- Hat-forming dies. F. O. Erickson. 1,715,228; May 28.
- Hat hanger. J. De George. Des. 78,563; May 21.
- Hat hanger. B. F. Walk. 1,720,109; July 9.
- Hat, Harvest. E. Witteoff. Des. 79,398; Sept. 10.
- Hat-holding device. C. H. Cowan, jr. 1,712,421; May 7.
- Hat-holding stand. A. Jiménez. 1,698,633; Jan. 8.
- Hat, Lady's. M. Davidson. Re17,268; Apr. 16.
- Hat, Novelty. G. Myers. 1,727,484; Sept. 10.
- Hat poucing machine and the like. R. K. Reynolds. 1,700,179; Jan. 29.
- Hat protector. P. F. Acocella. 1,716,537; June 11.
- Hat protector. C. Moeller. 1,714,100; May 21.
- Hat protector. W. H. Young. 1,737,289; Nov. 26.
- Hat protector, Straw-. B. P. Turgeon. 1,76,936; Sept. 3.
- Hatrack. J. Broch. Des. 77,878; Mar. 5.
- Hatrack. O. W. Eckstein. 1,739,955; Dec. 17.
- Hat rest. M. V. Black. 1,721,330; July 16.
- Hat, Straw. E. R. Ephraim. 1,740,234; Dec. 17.
- Hat, Straw. C. Steinberg. 1,698,176; Jan. 8.
- Hat-stretching device. S. J. Miller. 1,701,160; Feb. 5.
- Hat, Summer. V. Pellegrino. 1,704,576; Mar. 5.
- Hat sweat and making the same. C. Theroux. 1,717,075; June 11.
- Hat-tree. L. T. Sawyer. Des. 77,371; Jan. 1.
- Hats and the product thereof, Making. C. Lipper. 1,735,467; Nov. 12.
- Hats or caps, Attachment for. I. Chamberlin. 1,742,132; Dec. 31.
- Hats, Making. J. F. Murphy. 1,732,767; Oct. 22.
- Hatchet. T. Dominick. 1,718,733; June 25.
- Haulage mechanism. R. C. Osgood. 1,740,702; Dec. 24.
- Hawk. J. Sudek, jr. 1,737,274; Nov. 26.
- Hay-cocking machine. R. Bullis. 1,718,774; June 25.
- Hay distributor. L. C. Struensee. 1,725,380; Aug. 20.
- Hay-feeding machine. A. J. Silva. 1,699,573; Jan. 22.
- Hay loader. L. F. Edmundson. 1,729,933; Oct. 1.
- Hay loader. I. P. Schmid. 1,718,383; June 25.
- Hay loader. G. E. Stroup. 1,734,100; Nov. 5.
- Hay-loading machine. A. J. Silva. 1,700,455; Jan. 29.
- Hayrake. C. Lohman. 1,710,366; Apr. 23.
- Hayrake attachment, Sweep. E. Swedblom. 1,717,278; June 11.
- Hayrake, stacker, and loader, Combined. O. E. Main and C. C. Vaughop. 1,710,632; Apr. 23.
- Hay sling. G. O. Grindahl and H. T. Thompson. 1,722,329; July 30.
- Hay sling. S. L. Hanson. 1,713,901; May 21.
- Haystacker. F. Smith. 1,714,930; May 28.
- Haystackers, Cable guide for. A. E. Rutter. 1,699,478; Jan. 15.
- Head and jaw rest, Combined. N. P. Stenshoel. 1,729,525; Sept. 24.
- Head and sluice gate, Regulating. F. Newell. 1,719,076; July 2.
- Headblock strap. C. F. Rumely. 1,705,378; Mar. 12.
- Header for boilers. J. T. Dalcher. 1,717,371; June 18.
- Header for ingot molds. A. Forrest. 1,703,523; Feb. 26.
- Header, Grain. S. Butman, jr. 1,703,721; Feb. 26.
- Header, Maize. B. Gregory. 1,704,083; Mar. 5.
- Header or boll puller. E. T. Trout. 1,723,587; Aug. 6.
- Header, Return. J. Primrose. 1,710,513; Apr. 23.
- Head gate. I. S. Sanders. 1,736,628; Nov. 19.
- Headgear. E. W. Ingram. 1,709,578; Apr. 16.
- Headgear and making the same. H. M. Lipper. 1,720,560; July 9.
- Headgear attachment. D. S. S. Steuart. 1,698,774; Jan. 15.
- Headgear, Respiratory. A. B. Dräger. 1,706,602; Mar. 26.
- Head guard. R. T. Mullins. 1,714,275; May 21.
- Heading machine. J. E. Pracy. 1,738,312; Dec. 3.
- Head-lamp-dimming plug. H. C. Foster. 1,696,948; Jan. 1.
- Head lamp for motor vehicles. C. H. Jording. 1,726,837; Sept. 3.
- Head-lamp mounting. Automobile. W. G. Crist. 1,700,028; Jan. 22.
- Head-lamp replacement unit. S. F. Arbuckle and C. P. Brockway. 1,704,028; Mar. 5.
- Headlight. J. A. Anderson. 1,704,117; Mar. 5.
- Headlight. J. R. Betzer. 1,702,960; Feb. 19.
- Headlight. W. R. Brewer. 1,700,760; Feb. 5.
- Headlight. J. Cathrill. 1,716,875; June 11.
- Headlight. H. L. Cooke. 1,737,995; Dec. 3.
- Headlight. G. H. Cushing. 1,736,902; Nov. 26.
- Headlight. J. O. Ecker. 1,699,692; Jan. 22.
- Headlight. H. L. Gaughan. 1,712,300; May 7.
- Headlight. A. L. Jamieson. 1,727,830; Sept. 10.
- Headlight. J. M. B. Lewis. 1,703,494; Feb. 26.
- Headlight. F. E. Parker. 1,710,187; Apr. 23.
- Headlight. J. Patten and W. Bangert. 1,739,800; Dec. 17.
- Headlight. R. Rässler. 1,739,179; Dec. 10.
- Headlight. W. D'A. Ryan. 1,732,914; Oct. 22.
- Headlight. E. Schimpff. 1,698,279; Jan. 8.
- Headlight. W. H. Schoonmaker. 1,737,027; Nov. 26.
- Headlight. J. E. Sherman. 1,696,978; Jan. 1.
- Headlight. J. A. Street. 1,728,376; Sept. 17.
- Headlight. E. J. Whalen. 1,723,535; Aug. 6.
- Headlight. L. B. Williams. 1,716,938; June 11.
- Headlight and operating means. A. L. Griffin. 1,710,819; Apr. 30.
- Headlight antiglare device. I. S. Draper. 1,734,081; Nov. 5.
- Headlight attachment. O. D. Mansfield. 1,716,070; June 4.
- Headlight, Automobile. A. H. Biertuempfel. 1,722,268; July 30.
- Headlight, Automobile. W. F. Keller. 1,723,788; Aug. 6.
- Headlight, Automobile. R. G. F. Loewy. Des. 78,038; Mar. 19.
- Headlight, Automobile. W. L. Pollard. 1,735,090; Nov. 12.
- Headlight, Automobile. W. C. Pritchard. 1,702,746; Feb. 19.
- Headlight, Automobile. D. A. Reed. 1,720,437; July 9.
- Headlight, Automobile. C. D. Rex. 1,709,191; Apr. 16.
- Headlight, Automobile. F. Riedel. 1,707,540; Apr. 2.
- Headlight, Automobile. J. W. St. Ores. 1,707,886; Apr. 2.
- Headlight, Automobile. H. O. Woodruff. 1,713,157; May 14.
- Headlight bracket for motor vehicles, Auxiliary. H. G. Smith. 1,719,566; July 2.
- Headlight, Combination. E. R. Lochman. 1,733,613; Oct. 29.
- Headlight, Combination. A. W. Salvino. 1,722,683; July 30.
- Headlight construction. F. Buchanan. 1,701,908; Feb. 12.
- Headlight construction. G. A. Smith. 1,714,248; May 21.
- Headlight control. H. B. Walthers. 1,725,117; Aug. 20.
- Headlight control. Automobile. W. A. Bartschat. 1,703,256; Feb. 26.
- Headlight-control mechanism. W. R. Augsburg and A. Rubrecht. 1,714,653; May 28.
- Headlight-controlling apparatus. J. E. Hoffman. 1,698,630; Jan. 8.
- Headlight-controlling device. B. Castiglia. 1,736,577; Nov. 19.
- Headlight, Dirigible. E. Barnfather. 1,724,121; Aug. 13.
- Headlight, Dirigible. F. De Letto and J. Fuhr. 1,710,810; Apr. 30.
- Headlight, Dirigible. P. Hardies and W. Wischemann. 1,705,013; Mar. 12.
- Headlight, Dirigible. J. Helstrom. 1,702,004; Feb. 12.
- Headlight, Dirigible. W. Hill. 1,697,242; Jan. 1.



- Headlight, Dirigible. G. S. Keck. 1,740,178; Dec. 17.  
 Headlight, Dirigible. O. L. Olney. 1,727,248; Sept. 3.  
 Headlight, Dirigible. O. L. Olney and J. B. Hurley. 1,733,900; Oct. 29.  
 Headlight, Dirigible. C. R. Phillips. 1,741,433; Dec. 31.  
 Headlight, Dirigible. P. Reale. 1,725,478; Aug. 20.  
 Headlight, Dirigible. J. J. Smith. 1,726,196; Aug. 27.  
 Headlight, Dirigible. T. F. Taylor. 1,736,232; Nov. 19.  
 Headlight, Dirigible. M. J. Woznack. 1,734,243; Nov. 5.  
 Headlight for automobiles, Dimming. J. Roche. 1,722,311; July 30.  
 Headlight for automobiles, Dirigible. G. S. Keck. 1,735,437; Nov. 12.  
 Headlight for automobiles, Dirigible. E. A. Mogen. 1,701,789; Feb. 12.  
 Headlight for motor cars, Antiglare. J. A. Borel. 1,735,725; Nov. 12.  
 Headlight for motor vehicles. J. V. Cuniff and J. A. Darsie. 1,740,007; Dec. 17.  
 Headlight for motor vehicles. T. Dodds. 1,710,351; Apr. 23.  
 Headlight for motor vehicles, Dimming. J. Roche. 1,722,310; July 30.  
 Headlight for small-sized motor cars and motorcycles. F. Schneider and F. Singer. 1,714,483; May 21.  
 Headlight glare shield. W. M. Henry. 1,710,673; Apr. 23.  
 Headlight, Locomotive. C. B. Miles. 1,700,235; Jan. 29.  
 Headlight mechanism, Automatic. W. R. Johnston. 1,704,615; Mar. 5.  
 Headlight mechanism, Dirigible. G. S. Keck. 1,702,513; Feb. 19.  
 Headlight mechanism, Dirigible. G. S. Keck. 1,732,474; Oct. 22.  
 Headlight, Minimum-glare. O. A. Ellis. 1,726,697; Sept. 3.  
 Headlight, Nonglare. W. R. Greene. 1,713,335; May 14.  
 Headlight, Nonglare. C. A. Haas. 1,740,507; Dec. 24.  
 Headlight photometer. C. S. Ricker. 1,739,650; Dec. 17.  
 Headlight, Pivoting. G. Lespinat and E. Kalhaus. 1,704,046; Mar. 5.  
 Headlight projector. F. Transom. 1,741,888; Dec. 31.  
 Headlight reflector. J. F. Reynolds. 1,718,256; June 25.  
 Headlight reflectors, Adaptor for. S. F. Arbuckle. 1,706,836; Mar. 26.  
 Headlight regulator, Vehicle. F. H. Huntworth. 1,739,144; Dec. 10.  
 Headlight screen or lens. D. F. Comstock. 1,699,224; Jan. 15.  
 Headlight shield. W. F. Britton. 1,708,866; Apr. 9.  
 Headlight, Tilting. D. McMillan. 1,705,624; Mar. 19.  
 Headlight-turning means for vehicles. A. E. Adam. 1,740,913; Dec. 24.  
 Headlight, Vehicle. S. G. Smith. 1,724,623; Aug. 13.  
 Headlights and the like, Connector for electric. A. R. Lewellen. 1,705,022; Mar. 12.  
 Headlights, Nonglare shield for. H. B. Ault. 1,739,626; Dec. 17.  
 Headlights of vehicles. J. H. Gillies. 1,723,850; Aug. 6.  
 Head-protective device. H. R. Hart. 1,716,550; June 11.  
 Headrest. A. J. May. 1,704,485; Mar. 5.  
 Headrest. R. E. Stanley, sr. 1,717,272; June 11.  
 Headrest. H. E. Weber. 1,728,025; Sept. 10.  
 Headrest and invalid-raising mechanism for bedsteads and cots. L. R. Berry. 1,713,164; May 14.  
 Headrest apparatus. F. Koenigkramer. 1,717,568; June 18.  
 Headrest for barber chairs, Disappearing. S. M. Samuelian. 1,714,696; May 28.  
 Headrests for barber chairs, Placement for. J. R. Emmert and W. Grimmich. 1,740,648; Dec. 24.  
 Headstock with reversing movement, Automatic double. J. Leflaive. 1,721,078; July 16.  
 Headwear, Adjustable. A. I. Blum. 1,702,427; Feb. 19.  
 Health appliance, Electrical. W. E. Reynolds. 1,720,002; July 9.  
 Hearing apparatus, Small-size. H. von Baussen. 1,729,303; Sept. 24.  
 Hearing device for the deaf. F. E. Miller. 1,737,430; Nov. 26.  
 Hearse. W. H. Heise. 1,721,391; July 16.  
 Hearses, Inclosure and roller for. W. B. Parsels. 1,698,168; Jan. 8.  
 Hearth. W. F. Sparrow. 1,702,709-10; Feb. 19.  
 Hearth furnace, Roller. R. M. Hortvet. 1,735,968; Nov. 19.  
 Hearth rabbling mechanism, Scotch. H. R. MacMichael. 1,733,352; Oct. 29.  
 Heat accumulator. A. Beaurrienne. 1,737,490; Nov. 26.  
 Heat accumulator. G. Holthaus. 1,705,975; Mar. 19.  
 Heat and fuel regulation for intake manifolds, Cooperating. C. H. Kirby. 1,727,605; Sept. 10.  
 Heat and water vapor in gaseous reactions, Arrangement for the recovery of. G. L. E. Patart. 1,703,747; Feb. 26.  
 Heat annealing furnace, Continuous. F. J. Winder. 1,738,130; Dec. 3.  
 Heat Apparatus for the transforming of. R. W. Davenport. 1,698,940; Jan. 15.  
 Heat Apparatus for transforming. R. W. Davenport. 1,698,941; Jan. 15.  
 Heat applicator, Facial. F. W. Renwick. 1,714,693; May 28.  
 Heat-conserving factory-dust-disposal system. H. K. Hut-ton. 1,706,449; Mar. 26.  
 Heat control. L. K. Marshall. 1,718,749; June 25.  
 Heat control and by-pass damper, Automatic. L. D. Summers. 1,711,365; Apr. 30.  
 Heat control for cooking devices. J. F. Newsom. 1,702,480; Feb. 19.  
 Heat control for gas cookstoves. J. F. Newsom. 1,719,991; July 9.  
 Heat-control means for electrical heaters, Variable. H. A. Ziola. 1,721,582; July 23.  
 Heat-control regulator and attachment device. S. Taylor. 1,731,068; Oct. 8.  
 Heat-controlling apparatus. A. H. Osgood. 1,703,357; Feb. 26.  
 Heat deflector. C. R. Allen. 1,709,650; Apr. 16.  
 Heat deflector. E. W. Little. 1,699,899; Jan. 22.  
 Heat-dissipating means for electrodes. S. Mooneyhan. 1,720,186; July 9.  
 Heat-dissipating tube for electrical-apparatus casings and forming such tubes. K. A. Rice. 1,731,867; Oct. 15.  
 Heat distributor for cooking vessels. L. F. Hanes. 1,737,498; Nov. 26.  
 Heat-drawing furnace. E. F. Davis. 1,718,779; June 25.  
 Heat economizer. C. N. Lush. 1,717,715; June 18.  
 Heat-exchange apparatus. C. F. Kettering. 1,721,808; July 23.  
 Heat-exchange apparatus. G. D. Mantle. 1,712,892; May 14.  
 Heat-exchange apparatus. J. A. Potter. 1,722,109; July 23.  
 Heat-exchange apparatus. F. Schubart. 1,734,274; Nov. 5.  
 Heat-exchange apparatus. E. N. Sieder. 1,726,995; Sept. 3.  
 Heat-exchange apparatus. R. L. Smith. 1,702,321; Feb. 19.  
 Heat-exchange apparatus. R. Vuilleumier. 1,716,333; June 4.  
 Heat-exchange apparatus. G. W. Watts. 1,741,043; Dec. 24.  
 Heat-exchange device. G. Flintermann. 1,736,906; Nov. 26.  
 Heat-exchange device. A. B. Modine. 1,726,361; Aug. 27.  
 Heat-exchange device. C. E. Scott. 1,704,409; Mar. 5.  
 Heat-exchange roll. C. Moxley. 1,724,676; Aug. 13.  
 Heat exchanger. E. J. Autrey. 1,722,883; July 30.  
 Heat exchanger. H. Bergquist and T. Keebler. 1,726,943; Sept. 3.  
 Heat exchanger. W. Dvrssen. 1,741,225; Dec. 31.  
 Heat exchanger. E. Haber. 1,737,189; Nov. 26.  
 Heat exchanger. H. Henderson and J. G. Glasgow. 1,724,351; Aug. 13.  
 Heat exchanger. R. O. Henszey. 1,740,300; Dec. 17.  
 Heat exchanger. W. J. Hoffman. 1,738,706; Dec. 10.  
 Heat exchanger. T. E. Murray. Re17,185; Jan. 1.  
 Heat exchanger. J. P. Rathbun. Re17,480; Nov. 5.  
 Heat exchanger. J. P. Rathbun. 1,708,031; Apr. 9.  
 Heat exchanger. J. P. Rathbun. 1,730,242; Oct. 1.  
 Heat exchanger. R. E. Wilson. 1,737,347; Nov. 26.  
 Heat exchanger. J. W. Young. 1,720,536; July 9.  
 Heat exchanger and making the same. R. L. Frink. 1,721,442; July 16.  
 Heat exchanger for recovering heat from waste process water. W. C. Beekley and A. D. Martens. 1,703,655; Feb. 26.  
 Heat-exchanging apparatus. J. M. Harrison. 1,730,139; Oct. 1.  
 Heat exchanging, Apparatus for. G. T. Mott. 1,738,914; Dec. 10.  
 Heat-exchanging device. C. McNeil. 1,740,192; Dec. 17.  
 Heat from gases to other gases, Transferring. F. Pollitzer. 1,724,513; Aug. 13.  
 Heat generator. H. C. Caldwell. 1,702,642; Feb. 19.  
 Heat guard. C. T. Brady. 1,717,756; June 18.  
 Heat indicator. J. Zubaty. 1,717,645; June 18.  
 Heat indicator for electric irons. J. Bolf. 1,718,403; June 25.  
 Heat indicator for internal-combustion engines. H. H. Boyce. 1,712,246; May 7.  
 Heat indicator for internal-combustion engines. J. E. Esbbaugh and H. C. Gantz. 1,717,670; June 18.  
 Heat indicator for internal-combustion engines. J. Zubaty. 1,731,207; Oct. 8.  
 Heat indicator, Motor. H. H. Boyce. 1,711,668-9; May 7.  
 Heat indicator, Motor-. H. C. Hebig. 1,716,889; June 11.  
 Heat insulating. G. Slayer. 1,728,837; Sept. 17.  
 Heat-insulating and fireproof material. W. L. Steffins. 1,721,096; July 16.  
 Heat-insulating and sound-deadening filler for building structures, Producing. O. E. Brownell. 1,737,957; Dec. 3.  
 Heat-insulating structural element. S. W. Kirk. 1,697,189; Jan. 1.  
 Heat insulation. C. E. Kraus. 1,741,574; Dec. 31.  
 Heat insulation of walls. E. H. Wenzel and M. P. Janisch. 1,718,507; June 25.  
 Heat interchanger. E. B. McCabe and G. C. Chamberlain. 1,720,912; July 16.  
 Heat interchanger. F. C. Reed and F. A. Ernst. 1,730,293; Oct. 1.  
 Heat interchanger. F. H. Wilcox and J. C. Hayes, jr. 1,707,777; Apr. 2.  
 Heat interchanger of the plate type. G. M. G. de Beauvals. 1,705,471; Mar. 19.  
 Heat, Method and apparatus for utilizing waste. H. B. Smith. 1,741,663; Dec. 31.  
 Heat of the waste gases of alternately-working gas generators and that of the produced gas, Process and apparatus for utilizing the. A. Breisig. 1,728,720; Sept. 17.  
 Heat-operated alarm. F. A. Kunkle. 1,720,793; July 16.  
 Heat projector, Radiant-. A. Papini. 1,705,134; Mar. 12.



- Heat-radiating units, Manufacturing. H. S. Dodson and S. J. Marx. 1,706,056; Mar. 19.
- Heat recovery, Method and apparatus for. H. C. Heaton. 1,741,567; Dec. 31.
- Heat-regulating device. F. Crumrine. 1,729,504; Sept. 24.
- Heat-regulating device. F. S. Denison and L. L. Cunningham. 1,727,308; Sept. 3.
- Heat-regulating device. H. W. Sweatt. 1,732,174; Oct. 15.
- Heat-regulating device, Oven-. E. L. and W. E. Claus. 1,725,442; Aug. 20.
- Heat-regulating means, Automatic. M. S. Runsvold. 1,708,155; Apr. 9.
- Heat regulator. F. O. Vaughn. 1,727,950; Sept. 10.
- Heat regulator. E. H. White. 1,722,361; July 30.
- Heat regulator, Automatic. W. S. McCaw. 1,732,565; Oct. 22.
- Heat-resisting material. W. E. Ruder. 1,706,130; Mar. 19.
- Heat-resisting structure, etc. N. V. Hybinette. 1,704,087; Mar. 5.
- Heat-resisting substances, Producing high-. H. M. Williams. 1,713,580; May 21.
- Heat to the mixture delivered to internal-combustion engines, Supplying. B. Bannister. 1,735,720; Nov. 12.
- Heat-transfer apparatus. J. N. Jacobson. 1,737,849; Dec. 3.
- Heat-transfer apparatus. F. J. Swenson. 1,725,549; Aug. 20.
- Heat-transfer means. F. W. Gay. 1,725,906; Aug. 27.
- Heat-transfer means for closed rotating electrical machinery. F. W. Gay. 1,700,840; Feb. 5.
- Heat-transfer means for rotating electrical machinery. F. W. Gay. 1,739,137; Dec. 10.
- Heat-transfer surfaces, Method and apparatus for applying a fluid to. D. S. Jacobus. 1,730,461; Oct. 8.
- Heat-transfer system for electric transformers or other devices. F. W. Gay. 1,700,839; Feb. 5.
- Heat-transferring apparatus. G. H. Bramwell. 1,708,387; Apr. 9.
- Heat-transferring device. F. F. Schmitt. 1,710,323; Apr. 23.
- Heat Transforming. R. W. Davenport. 1,698,938; Jan. 15.
- Heat-transforming apparatus. R. W. Davenport. 1,704,177; Mar. 5.
- Heat-transforming process and apparatus. R. W. Davenport and H. S. Estler. 1,731,710; Oct. 15.
- Heat-transmitting platen element. F. W. Harney. 1,712,386; May 7.
- Heat-transmitting tube. W. J. Still. 1,716,743; June 11.
- Heat treating and quenching bar stock, Apparatus for. J. J. Mascuch. 1,712,833; May 14.
- Heat-treating apparatus. A. Vuilleumier. 1,715,317; May 28.
- Heat treating, Apparatus for. J. B. Dailey. 1,697,811; Jan. 1.
- Heat-treating apparatus for canned-goods-coupling means. A. R. Thompson. 1,725,319; Aug. 20.
- Heat-treating articles. A. Le Boutillier. 1,706,725; Mar. 26.
- Heat treating bars. G. Langford. 1,724,031; Aug. 13.
- Heat-treating furnace. T. J. Laurence. 1,705,621; Mar. 19.
- Heat-treating furnace. T. J. Laurence. 1,712,831; May 14.
- Heat-treating furnace. I. J. Shelton and C. V. Jacobi. 1,728,371; Sept. 17.
- Heat-treating furnace. J. C. Woodson. 1,707,294; Apr. 2.
- Heat-treating furnace organization for metallic units. G. E. Barnhart. 1,722,449; July 30.
- Heat-treating iron. A. F. Meehan. 1,731,346; Oct. 15.
- Heat treating metallic articles. W. W. Leck. 1,713,137; May 14.
- Heat treating metallic articles, Apparatus for. W. W. Leck. 1,713,136; May 14.
- Heat-treating metallic conductors. G. W. Elmen. 1,722,079; July 23.
- Heat treating metals and alloys. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,700,547; Jan. 29.
- Heat treating metals and alloys, Apparatus for. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,700,548; Jan. 29.
- Heat treating metals, Apparatus for. W. A. Timm. 1,713,790; May 21.
- Heat treatment and apparatus therefor. T. G. McDougal. 1,713,851; May 21.
- Heat-treatment apparatus. J. Schonbrunn and G. Keller. 1,697,144; Jan. 1.
- Heat-treatment furnace. H. P. McCann. 1,697,129; Jan. 1.
- Heat treatment of aluminum castings. R. J. Roshirt. 1,713,093; May 14.
- Heat treatment of carbonaceous or other materials, Apparatus for the distillation or. F. D. Marshall. 1,704,092; Mar. 5.
- Heat treatment of cereal substances. C. W. Chitty and D. W. Kent-Jones. 1,710,472; Apr. 23.
- Heat treatment of liquids, Apparatus for. W. Winship. 1,712,372; May 7.
- Heat treatment of metal articles. F. Twyman. 1,702,985; Feb. 19.
- Heat treatment of steel. N. Das Chopra and F. J. Bullen. 1,712,253; May 7.
- Heater: See—
- Air heater.
- Aircraft heater.
- Animal heater.
- Auto heater.
- Automobile heater.
- Brooder heater.
- Cabinet heater.
- Car heater.
- Carburetor heater.
- Circulating heater.
- Compress heater.
- Crank-case heater.
- Duplex heater.
- Electric air heater.
- Electric heater.
- Electrical heater.
- Electrolytic heater.
- Emergency heater.
- Feed-water heater.
- Fireplace heater.
- Flue heater.
- Fluid heater.
- Garage heater.
- Gas-burning heater.
- Gas heater.
- Gas space heater.
- Generator heater.
- Hot-air heater.
- Hot-water heater.
- House heater.
- Immersion heater.
- Incased heater.
- Incubator heater.
- Induction heater.
- Intake heater.
- Jacketed heater.
- Kitchen heater.
- Laboratory heater.
- Liquid heater.
- Manifold heater.
- Oil-burning heater.
- Oil heater.
- Oil-well heater.
- Open heater.
- Orchard heater.
- Peanut heater.
- Radiant electric heater.
- Roll heater.
- Shoe heater.
- Solar heater.
- Steam heater.
- Storage heater.
- Surface heater.
- Switch heater.
- Tank heater.
- Tobacco heater.
- Valve heater.
- Vapor oil heater.
- Vehicle heater.
- Water heater.
- Windshield heater.
- Heater. H. C. Baker and A. Kaighin. 1,738,222; Dec. 3.
- Heater. W. Blasek and J. Borisch. 1,700,482; Jan. 29.
- Heater. J. H. Carmean. 1,723,406; Aug. 6.
- Heater. W. M. Cross. 1,734,079; Nov. 5.
- Heater. H. D. Eaton. 1,737,834; Dec. 3.
- Heater. R. N. Ehrhart. 1,724,916; Aug. 20.
- Heater. R. N. Ehrhart. 1,728,177; Sept. 17.
- Heater. W. A. Griswold. Des. 78,812; June 25.
- Heater. P. H. Hamilton. 1,730,423; Oct. 8.
- Heater. A. J. Hartfield. 1,699,789; Jan. 22.
- Heater. B. B. Kahn. 1,727,714; Sept. 10.
- Heater. J. L. D. Keppy. Des. 78,629; May 28.
- Heater. B. Klingbeil. 1,720,365; July 9.
- Heater. J. B. Knauss. 1,707,200; Mar. 26.
- Heater. H. Lange. 1,741,468; Dec. 31.
- Heater. L. S. Lawson. Des. 78,469; May 7.
- Heater. L. S. Lawson. Des. 78,637; May 28.
- Heater. R. C. Mason. 1,723,743; Aug. 6.
- Heater. T. E. Murray. 1,739,767; Dec. 17.
- Heater. W. G. Nagle. Des. 79,742; Oct. 29.
- Heater. G. E. Pickup. Des. 77,499; Jan. 15.
- Heater. J. H. Sandell. Des. 78,364; Apr. 23.
- Heater. H. J. Sauvage. 1,737,732; Dec. 3.
- Heater. L. D. Shreeve and G. H. Hillis. 1,728,309; Sept. 17.
- Heater. J. Teller. 1,740,671; Dec. 24.
- Heater. F. F. Turner. 1,710,596; Apr. 23.
- Heater. C. D. Waldon, S. J. Brooks, and R. T. Robinson. 1,701,199; Feb. 5.
- Heater and boiler, Hot-water. C. Digeon. 1,742,063; Dec. 31.
- Heater and cooker, Electric. W. C. Hunt. 1,708,504; Apr. 9.
- Heater and crank-case ventilator, Oil. H. C. Mougey. 1,721,525; July 23.
- Heater and making the same, Electric. E. N. Lightfoot. 1,735,831; Nov. 12.
- Heater and mixer, Combination. A. J. Luer. 1,741,160; Dec. 31.
- Heater and muffler construction, Combination. Q. G. Noblitt, L. A. Reeves, and F. H. Sparks. 1,732,909; Oct. 22.
- Heater and softener, Water. P. P. Runnels. 1,737,202; Nov. 26.
- Heater and steam generator, Electric water. M. J. Rees. 1,729,685; Oct. 1.
- Heater and sterilizer. K. K. Sikes. 1,735,093; Nov. 12.
- Heater and wiper, Windshield. S. B. Murphy. 1,739,411; Dec. 10.
- Heater conservor plate. R. Scheid. 1,732,569; Oct. 22.
- Heater construction, Plate air-. W. Lonsdale. 1,727,124; Sept. 3.
- Heater construction, Water-. F. L. O. Wadsworth. 1,738,087; Dec. 3.
- Heater-element retaining means, Electric. M. Murphy. 1,697,284; Jan. 1.
- Heater for aeroplanes. T. J. Lee. 1,705,126; Mar. 12.
- Heater for aeroplanes, Wing. D. Morris. 1,733,465; Oct. 29.
- Heater for automobiles. T. H. Roberts and J. R. Holmes. 1,700,516; Jan. 29.
- Heater for automobiles. J. J. Sunday. 1,738,850; Dec. 10.
- Heater for bituminous materials. N. V. Hendricks. 1,709,016; Apr. 16.
- Heater for drying cabinets, Air. A. O. Schramm. 1,718,984; July 2.
- Heater for engine-jacket systems, Electrical. H. W. Jeliffe. 1,729,270; Sept. 24.
- Heater for engine water circulating systems. C. F. Walz. 1,710,391; Apr. 23.
- Heater for hot-water system, Electric. S. J. Lonergan. 1,718,970; July 2.



- Heater for hot-water systems for railway cars. B. A. Keeler and J. Frumveller. 1,725,924; Aug. 27.
- Heater for internal-combustion engines, Air. N. I. Clark. 1,709,117; Apr. 16.
- Heater for lubricating oil. C. R. Short. 1,707,743; Apr. 2.
- Heater for motor vehicles. B. D. McIntyre. 1,712,673; May 14.
- Heater for recess mountings, Electric. A. Johnson. 1,719,181; July 2.
- Heater for the interior of vehicle bodies, Hot-water. L. C. Josephs, jr. 1,708,140; Apr. 9.
- Heater for warm-air furnaces, Fresh-air. F. H. Wood. 1,726,727; Sept. 3.
- Heater for water-cooling apparatus of motor vehicles and the like. E. M. Rosenbluth. 1,702,918; Feb. 19.
- Heater for waving hair. C. G. Nessler. Re17,536; Dec. 24.
- Heater for windshields. W. A. Ruka and A. F. Heinemann. 1,700,544; Jan. 29.
- Heater grille. T. A. Sala. 1,697,371; Jan. 1.
- Heater handle. G. Decker. Des. 78,968; July 16.
- Heater of the nonstorage type, Electric water. W. and H. Stubbs. 1,725,683; Aug. 20.
- Heater or boiler, Water. V. O. Jones. 1,734,490; Nov. 5.
- Heater or condenser, Feed-water. W. F. Fosbury. 1,710,818; Apr. 30.
- Heater or stove, Griddle. S. Lewin. 1,711,472; Apr. 30.
- Heater plate for ranges, ovens, and the like. C. B. Mossi and H. A. Chevola. 1,726,498; Aug. 27.
- Heater plug. E. Clemence. 1,704,726; Mar. 12.
- Heater system for oil engines. H. E. Briggs. 1,704,934; Mar. 12.
- Heater unit. C. B. Backer. 1,715,692; June 4.
- Heater unit, Electric. A. D. Keene. 1,707,308; Apr. 2.
- Heater unit, Electric. J. H. Simon. 1,710,196; Apr. 23.
- Heater with reflector. H. C. Hanson. 1,713,827; May 21.
- Heaters, Indicating device for. G. S. Witbam, jr. 1,732,114; Oct. 15.
- Heating air supplied to internal-combustion engines, Control means for. F. Pokorny. 1,706,817; Mar. 26.
- Heating and agitating apparatus. H. B. Kipper. 1,741,573; Dec. 31.
- Heating and circulating unit, Air. R. S. Arnold. 1,697,627; Jan. 1.
- Heating and cooking appliance, Electric. E. Ricci del Riccio. 1,699,610; Jan. 22.
- Heating and cooling apparatus. L. Grafflin. 1,704,535; Mar. 5.
- Heating and cooling apparatus, Combined. J. Posey. 1,719,080; July 2.
- Heating and cooling of buildings. R. G. Crittall and J. L. Musgrave. 1,718,533; June 25.
- Heating and cooling of buildings. R. G. Crittall and J. L. Musgrave. 1,740,336; Dec. 17.
- Heating and cooling system, Hygiene. H. H. Granger. 1,709,396; Apr. 16.
- Heating and forging machine, Electrical. F. P. Kobert. 1,718,364; June 25.
- Heating and forging means. P. R. Hoopes. 1,733,263; Oct. 29.
- Heating and hot-water-dispensing system, Combination house-. V. Mauck. 1,715,040; May 28.
- Heating and/or chemical treatment of liquids and molten materials by direct contact with combustion products. S. C. Smith. 1,730,440; Oct. 8.
- Heating and pumping system, Well. K. P. Neilsen. 1,703,428; Feb. 26.
- Heating and purifying feed water for locomotive boilers and the like. J. Stumpf. 1,699,998; Jan. 22.
- Heating and spraying apparatus combined with steam road rollers, Tar. T. Gregg. 1,702,690; Feb. 19.
- Heating and storage apparatus, Water. L. S. Chadwick and M. Resek. 1,740,068; Dec. 17.
- Heating and transfer of articles, Apparatus for. H. P. McCann. Re17,289; May 7.
- Heating and ventilating apparatus. A. Hopkins. 1,719,659; July 2.
- Heating and ventilating apparatus. C. T. Morse. 1,738,719; Dec. 10.
- Heating and ventilating apparatus. A. H. Robinson. 1,699,810; Jan. 22.
- Heating and ventilating of paper-pulp-grinding buildings. E. A. Briner. 1,713,510; May 21.
- Heating and ventilating plant and method. J. H. McCauley. 1,698,763; Jan. 15.
- Heating and ventilating system. P. W. McClernon. 1,713,768; May 21.
- Heating apparatus. J. E. Batie. 1,723,538; Aug. 6.
- Heating apparatus. A. A. Blomfeldt and W. E. Teklenburg. 1,729,202; Sept. 24.
- Heating apparatus. C. S. Brown. 1,701,716; Feb. 12.
- Heating apparatus. C. L. Bryant. 1,712,810; May 14.
- Heating apparatus. C. L. Bryant. 1,717,658; June 18.
- Heating apparatus. H. Cowles and J. K. Norris. 1,726,527; Sept. 3.
- Heating apparatus. E. F. Fisher. 1,705,812; Mar. 19.
- Heating apparatus. E. F. Fisher. 1,706,846; Mar. 26.
- Heating apparatus. H. C. Gibson. 1,710,306; Apr. 23.
- Heating apparatus. G. A. Guenther. 1,716,921; June 11.
- Heating apparatus. C. P. Higgins. 1,699,064; Jan. 15.
- Heating apparatus. E. C. Kline. 1,735,438; Nov. 12.
- Heating apparatus. J. McKinney. 1,736,796; Nov. 26.
- Heating apparatus. A. B. Modine. 1,726,275; Aug. 27.
- Heating apparatus. R. Rochester, jr. 1,715,512; June 4.
- Heating apparatus. W. A. Rowe. 1,699,719; Jan. 22.
- Heating apparatus. M. E. Vozie. 1,725,322; Aug. 20.
- Heating apparatus, Air-. W. A. Rowe. 1,714,695; May 28.
- Heating apparatus, Air-. A. T. Sponar. 1,717,327; June 11.
- Heating apparatus, Car-. G. F. Wennagel and C. Thomas. 1,697,409; Jan. 1.
- Heating apparatus, Electric. J. L. Harvey. 1,720,416; July 9.
- Heating apparatus, Electric. A. S. Macdonald, C. C. Waite, and E. Melville Huggins. 1,708,512; Apr. 9.
- Heating apparatus, Electric. D. G. Petrie. 1,710,511; Apr. 23.
- Heating apparatus, Electric. P. F. Weiss. 1,714,578; May 28.
- Heating apparatus, Electric fluid-. H. A. Davies. 1,738,360; Dec. 3.
- Heating apparatus for liquids, Electrical. W. Y. Newland. 1,697,732; Jan. 1.
- Heating apparatus for paper-mill surge tanks. E. Simzer. 1,731,506; Oct. 15.
- Heating apparatus, High-temperature fluid-. R. A. Carleton. 1,727,584; Sept. 10.
- Heating apparatus, Liquid-. A. E. Schumann. 1,723,082; Aug. 6.
- Heating apparatus, Regenerative. J. van Ackeren. 1,704,685; Mar. 5.
- Heating apparatus, Safety device for electrical. P. McIlveney. 1,706,798; Mar. 26.
- Heating apparatus, Steam-turbine-driven vacuum. I. C. Jennings. 1,722,847; July 30.
- Heating apparatus, Thermally-controlled. I. B. Andrews. 1,734,609; Nov. 5.
- Heating apparatus, Water-. W. I. Ferguson. 1,741,455; Dec. 31.
- Heating apparatus, Water-. D. F. Garvey. 1,726,020; Aug. 27.
- Heating apparatus, Water-. R. L. Geaslen. 1,697,862; Jan. 8.
- Heating apparatus, Water-. A. M. Mortzanoff. 1,710,665; Apr. 23.
- Heating apparatus, Water-. A. Pfender. 1,733,425; Oct. 29.
- Heating apparatus, Water-. M. C. Reck. 1,733,628; Oct. 29.
- Heating apparatus, Water-. M. Resek, C. C. Rehmer, and J. A. Dahstrom. 1,703,173; Feb. 26.
- Heating apparatus, Water-. J. A. Thatcher. 1,735,554; Nov. 12.
- Heating appliance. F. J. Cox. 1,708,976; Apr. 9.
- Heating appliance. B. B. Kahn. 1,709,670; Apr. 16.
- Heating appliance. A. L. Oakley. 1,736,859; Nov. 26.
- Heating arrangement for heating the cooling water of combustion engines, Electric. K. Witzel. 1,729,810; Oct. 1.
- Heating articles, Method and apparatus for electrically. H. E. Norman. 1,734,913; Nov. 5.
- Heating attachment for stoves. C. E. Lombard. 1,717,987; June 18.
- Heating attachment for windshields. A. Holzhauer, jr. 1,721,663; July 23.
- Heating attachment, Liquid-. A. J. Hughes. 1,707,122; Mar. 26.
- Heating attachment, Water-. A. B. Mohr. 1,721,463; July 16.
- Heating by controller rheostats, Car. J. M. Bosenbury. 1,705,393; Mar. 12.
- Heating by subatmospheric steam. C. A. Dunham. 1,706,401; Mar. 26.
- Heating chamber for discharge-outlet casings for tank cars. W. K. Auchincloss. 1,706,052; Mar. 19.
- Heating curved surfaces, Apparatus for. J. F. Wait. 1,704,413; Mar. 5.
- Heating device. L. B. Andresen. 1,724,867; Aug. 13.
- Heating device. L. S. Brown. 1,737,142; Nov. 26.
- Heating device. L. F. Clausing. 1,700,559; Jan. 29.
- Heating device. O. J. Fay, H. T. Heimberger, and E. Pugh. 1,726,658; Sept. 3.
- Heating device. J. L. D. Keppy. 1,737,928; Dec. 3.
- Heating device. P. M. Klein. 1,713,535; May 21.
- Heating device. L. C. Loshbough. 1,708,509; Apr. 9.
- Heating device. G. Manierre. 1,714,607; May 28.
- Heating device. J. Schneible. 1,698,456; Jan. 8.
- Heating device. T. E. Schumann. 1,703,047; Feb. 19.
- Heating device. B. F. Slade. 1,700,087; Jan. 22.
- Heating device. C. Van Brunt. 1,703,643; Feb. 26.
- Heating device. O. Zingg. 1,738,164; Dec. 3.
- Heating device and operating same, Fluid. J. A. Brown and W. J. Handley. 1,714,843; May 28.
- Heating device, Automobile. W. A. Blackburn. 1,703,025; Feb. 19.
- Heating device, Auxiliary. L. Kern. 1,723,178-9; Aug. 6.
- Heating device, Electric. C. Graf. 1,706,385; Mar. 19.
- Heating device, Electric. G. Harvis. 1,741,625; Dec. 31.
- Heating device, Electric. E. L. Wiegand. 1,706,015-17; Mar. 19.
- Heating device for buildings. G. J. Griebler and B. W. Koepnick. 1,707,609; Apr. 2.
- Heating device for shoe-finishing machines. F. J. Kane. 1,716,064; June 4.
- Heating device, Oil-. A. W. Koepsell. 1,726,572; Sept. 3.
- Heating device, Portable electric. L. R. Barber. 1,706,515; Mar. 26.
- Heating device, Rotary. F. T. Bogard. 1,737,912; Dec. 3.
- Heating devices, Control for. M. M. Kohn. 1,702,637; Feb. 19.



- Heating, drying, and charring apparatus, Barrel. W. W. Kemp. 1,719,331; July 2.
- Heating, Electrical. A. H. Davis, jr. 1,733,250; Oct. 29.
- Heating element. L. A. M. Phelan. 1,738,150; Dec. 3.
- Heating element. F. D. Pitt. 1,710,512; Apr. 23.
- Heating element and manufacturing same, Electric. A. Schmidt-Predari. 1,703,640; Feb. 26.
- Heating element, Electric. J. Blik. 1,706,208; Mar. 19.
- Heating element, Electric. H. W. Head. 1,715,287; May 28.
- Heating element, Electric. F. W. Moffat. 1,709,438; Jan. 22.
- Heating element, Electrical. W. W. Hicks. 1,699,737; Apr. 16.
- Heating element, Electrical. A. J. Kercher and W. W. Hicks. 1,729,673; Oct. 1.
- Heating element for electric fires or radiators. H. H. Berry. 1,698,184; Jan. 8.
- Heating element for hot-water bottles, Electric. A. Svern and A. Soderholm. 1,727,913; Sept. 10.
- Heating fluids, Apparatus for. S. P. Vaughn. 1,700,961; Feb. 5.
- Heating furnace. G. E. and W. F. Evans. 1,719,466; July 2.
- Heating furnace. W. H. Fitch. 1,735,605-8; Nov. 12.
- Heating furnace. L. Lee. 1,703,676; Feb. 26.
- Heating furnace. A. R. McArthur and E. E. Moore. 1,712,576; May 14.
- Heating furnace. H. Miller. 1,716,319; June 4.
- Heating furnace. D. L. Summey. 1,732,916; Oct. 22.
- Heating-furnace apparatus. E. Wirz. 1,723,319; Aug. 6.
- Heating furnace, Bar. F. W. Brooke. 1,736,248; Nov. 19.
- Heating furnace, Continuous sheet. T. F. Bailly. 1,696,900; Jan. 1.
- Heating furnace, Ingot. K. Neuhaus. 1,738,841; Dec. 10.
- Heating furnace, Nonoxidizing. G. Keller. 1,735,866; Nov. 19.
- Heating furnace, Regenerative. J. van Ackeren. 1,704,686; Mar. 5.
- Heating, humidifying, and ventilating apparatus. C. A. Moore. 1,735,085; Nov. 12.
- Heating inclosures electrically. C. L. Burgher. Re17,386; July 30.
- Heating installation for railways, Steam. L. Friedmann. 1,702,431; Feb. 19.
- Heating liquids in tanks, Apparatus for. J. Koželuh. 1,735,169; Nov. 12.
- Heating materials, Apparatus for. K. Sohler. 1,720,974; July 16.
- Heating means for a combination stove, Top. F. A. Gerich. 1,730,882; Oct. 8.
- Heating mechanism for internal-combustion engines. E. C. Richard. 1,738,797; Dec. 10.
- Heating, Method and system of. L. L. Ransom. 1,698,561; Jan. 8.
- Heating molten glass, Method and apparatus for. A. E. Fowie. 1,701,151; Feb. 5.
- Heating of ovens and the like, Apparatus for the. J. M. Harrison. 1,729,829; Oct. 1.
- Heating oil, Apparatus for. J. A. Yerkes. 1,712,101; May 7.
- Heating oil, Method and apparatus for. A. W. Morse. 1,719,615; July 2.
- Heating oils. J. C. Black. 1,708,076; Apr. 9.
- Heating or cooling fluids, Device for. N. Hagstedt. 1,727,822; Sept. 10.
- Heating or cooling radiator, Reversible. P. P. Henshall. 1,710,579; Apr. 23.
- Heating pad. H. F. Gau. 1,698,703; Jan. 8.
- Heating pad and fabric, Electric. F. W. Hewitt. 1,703,005; Feb. 19.
- Heating plant. E. O. Mills. 1,731,256; Oct. 15.
- Heating solder, Apparatus for. W. B. Robertson. 1,730,591; Oct. 8.
- Heating structure. Regenerating. J. van Ackeren. 1,704,229; Mar. 5.
- Heating structure, Regenerative. J. van Ackeren. 1,704,687; Mar. 5.
- Heating substance susceptible to oxidation. H. Koppers. 1,713,834; May 21.
- Heating system. J. E. De Long. 1,719,321; July 2.
- Heating system. W. S. and F. G. Edson. 1,733,187; Oct. 29.
- Heating system. R. C. Kerlaouez, L. W. Evans, and S. B. Merry. 1,708,580; Apr. 9.
- Heating system. J. Lewis. 1,715,202; May 28.
- Heating system and apparatus. F. Marion. 1,741,529; Dec. 31.
- Heating system and control therefor. R. F. Metcalfe. 1,703,537; Feb. 26.
- Heating system, Automatic water-. J. Kirkeby. 1,736,266; Nov. 19.
- Heating system, Automobile. G. R. Howell. 1,704,971; Mar. 12.
- Heating-system control. P. F. Shivers. 1,707,193; Mar. 26.
- Heating system, Dual-control. M. Resek. 1,712,737; May 14.
- Heating system, Electric. L. P. Hynes. 1,742,159; Dec. 31.
- Heating system for all vehicles. C. de la Barre de Nanteuil. 1,721,547; July 23.
- Heating system for automobiles. P. F. Gardner, N. Runenberg, and C. W. Cox. 1,701,999; Feb. 12.
- Heating system for fireplaces, Air-. J. W. Cornelius. 1,722,560; July 30.
- Heating system for paper mills, Steam. I. C. Jennings. 1,704,436; Mar. 5.
- Heating system for storage tanks. J. C. Cook. 1,713,263; May 14.
- Heating system for street cars and the like, Electric. W. G. Hartwig. 1,730,366; Oct. 8.
- Heating system, Gas. J. Mackenzie. 1,699,743; Jan. 22.
- Heating system, Hot-water-. C. I. Baker. 1,731,868; Oct. 15.
- Heating system, Oil-burning. L. L. Scott. Re17,405; Aug. 13.
- Heating system, Single-pipe steam. F. W. Gay. 1,733,120; Oct. 29.
- Heating system, Steam. B. Ford. 1,721,693; July 23.
- Heating system, Steam. E. W. Larsen. 1,734,334; Nov. 5.
- Heating system, Vacuum. D. N. Crosthwait, jr. 1,727,965; Sept. 10.
- Heating system, Water-. O. E. Frank and H. P. Wilder. 1,717,967; June 18.
- Heating systems, Air-circulating means for. A. O. Miller. 1,708,550; Apr. 9.
- Heating systems, Automatic regulation of steam. E. S. Porter. 1,702,979; Feb. 19.
- Heating systems, Regulating apparatus for car-. P. B. Parks and D. W. Miller. 1,729,519; Sept. 24.
- Heating unit. C. C. Abbott. 1,731,120; Oct. 8.
- Heating unit. R. H. Beach. 1,737,633; Dec. 3.
- Heating unit. F. M. Hibben. 1,698,095; Jan. 8.
- Heating unit. F. Perurena. 1,719,780; July 2.
- Heating unit. W. A. Salisbury. 1,727,564; Sept. 10.
- Heating unit. G. F. Wennagel and C. Thomas. 1,738,026; Dec. 3.
- Heating unit and making it. C. C. Abbott. 1,698,289; Jan. 8.
- Heating unit, Electric. C. C. Abbott and G. D. Milnes. 1,718,676; June 25.
- Heating unit, Electric. H. A. Frietchen. 1,728,752; Sept. 17.
- Heating unit, Electrical. K. H. Bowen. 1,727,959; Sept. 10.
- Heating unit for motor vehicles. A. H. Strout. 1,704,873; Mar. 12.
- Heating unit for tanks, Electrical. A. J. Henry. 1,739,030; Dec. 10.
- Heating utensil. S. M. Meyer. 1,697,962; Jan. 8.
- Heating utensil, Electrical. E. J. Robne. 1,702,089; Feb. 12.
- Heating value of a flowing mixture of combustible fluids, Method of and apparatus for controlling the quality or total. E. X. Schmidt. 1,708,958; Apr. 16.
- Heating vapors between compressors and wells, Apparatus for. L. J. Husted. 1,716,554; June 11.
- Heating, ventilating, and cooling device. F. E. Donaldson. 1,721,589; July 23.
- Heating, ventilating, and humidifying apparatus. C. P. Eisenhauer. 1,734,163; Nov. 5.
- Heating wire, Apparatus for. O. C. Trautman. 1,700,002; Jan. 22.
- Hectograph duplicating machine. W. E. Williams. 1,717,865; June 18.
- Heddle frame. J. J. Kaufmann. 1,709,583; Apr. 16.
- Heddle frame. J. J. Kaufmann. 1,725,004; Aug. 20.
- Heddle frame. J. Walker, jr. 1,701,520; Feb. 12.
- Heel. J. B. Hadaway. 1,698,791; Jan. 15.
- Heel. A. R. Taylor. 1,737,812; Dec. 3.
- Heel, Air-cushion. C. Spear. 1,725,547; Aug. 20.
- Heel and making same, Wooden. M. A. Comeau. 1,719,424; July 2.
- Heel and making the same, Rubber. W. B. Wescott. 1,740,633; Dec. 24.
- Heel and making the same, Shoe. J. R. Gammeter. 1,708,088; Apr. 9.
- Heel and toe plate. I. Jaffe. 1,725,456; Aug. 20.
- Heel assembly. C. Roberts. 1,715,626; June 4.
- Heel-attaching jack, Shoe-. C. Stotz. 1,710,718; Apr. 30.
- Heel-attaching machine. J. H. Pope. 1,733,166; Oct. 29.
- Heel-attaching machine. J. F. Standish. 1,725,024; Aug. 20.
- Heel-attaching machines, Drilling mechanism for wood. F. E. Bertrand. 1,722,992; Aug. 6.
- Heel-attaching means for boots and shoes. P. A. Bowen. 1,715,588; June 4.
- Heel base. L. H. Shaw. 1,722,684; July 30.
- Heel base and rubber heel. O. T. Crafts. 1,701,872; Feb. 12.
- Heel base for shoes. C. O. Ryberg. 1,701,509; Feb. 12.
- Heel-blank-breasting machine. M. W. Howard. 1,711,734; May 7.
- Heel-blank sheet. H. Laventhal. 1,713,135; May 14.
- Heel block, Railway-switch. F. L. Mariman. 1,721,460; July 16.
- Heel breast flaps, Method of and machine for preparing. L. J. Bazzoni. 1,711,984; May 7.
- Heel breasting and pressing machine. B. F. Hartwell. 1,738,533; Dec. 10.
- Heel clamp, Shoe-. P. Vollbrecht and J. Guglielmo. 1,727,143; Sept. 3.
- Heel, Composite. W. A. Owen. 1,710,378; Apr. 23.
- Heel, Composite rubber. G. H. Willis. 1,735,369; Nov. 12.
- Heel covering. W. H. Nutt. 1,704,204; Mar. 5.
- Heel covering. W. H. Nutt. 1,718,177; June 18.
- Heel, Cushion. J. Belpedio. 1,711,302; Apr. 30.
- Heel, Cushion. C. Roberts. 1,722,309; July 30.
- Heel, Cushion. C. Turner. 1,705,597; Mar. 19.
- Heel cushion for shoes. B. Ross. 1,721,714; July 23.



- Heel-cutting machine. R. F. Knight. 1,715,660; June 4.  
 Heel, Detachable. A. C. Farrar. 1,740,976; Dec. 24.  
 Heel, Detachable. G. H. Schmidt. 1,705,543; Mar. 19.  
 Heel, Detachable shoe. W. Kamada. 1,716,855; June 11.  
 Heel-finishing machine. L. Citrano. 1,727,633; Sept. 10.  
 Heel for boots and shoes. E. B. Bishop. 1,741,754; Dec. 31.  
 Heel for footwear. W. J. De Witt. 1,733,185; Oct. 29.  
 Heel for footwear. S. Roth. 1,720,526; July 9.  
 Heel for shoes, interchangeable. A. Shabbender. 1,709,749; Apr. 16.  
 Heel guard, shoe. A. C. Boomer. 1,708,964; Apr. 16.  
 Heel lift for boots or shoes. C. Roberts. 1,741,037; Dec. 24.  
 Heel machine. R. C. Simmons. 1,722,318; July 30.  
 Heel machine, wood. W. J. Shaw. 1,711,973; May 7.  
 Heel-making machine. C. I. Pollard. 1,731,589; Oct. 15.  
 Heel manufacture, wood. J. Burger. 1,709,308; Apr. 16.  
 Heel, ornament, and protector therefor, shoe. P. and N. Esposito. 1,725,509; Aug. 20.  
 Heel press. E. E. Winkley. 1,698,042; Jan. 8.  
 Heel, rubber. L. B. Conant. 1,716,368; June 11.  
 Heel, rubber. J. R. Gammeter. 1,714,714; May 28.  
 Heel, rubber. J. O. Goodwin. 1,733,048; Dec. 3.  
 Heel, rubber. K. P. Harshberger. 1,710,976; Apr. 30.  
 Heel, rubber. E. J. Kroeger. 1,721,599; July 23.  
 Heel, rubber. C. H. Oakley. Des. 79,302; Aug. 27.  
 Heel, rubber. N. B. Riddle. 1,714,446; May 21.  
 Heel, rubber. G. H. Willis. 1,721,982; July 23.  
 Heel-seat fitting. J. F. Jonas. 1,697,243; Jan. 1.  
 Heel-seat-fitting machine. R. F. Joyce. 1,709,854; Apr. 23.  
 Heel-seat-fitting machine. W. C. Stewart. 1,739,100; Dec. 10.  
 Heel-seat-fitting machine. W. C. Stewart and H. L. Hood. 1,698,805; Jan. 15.  
 Heel-seat-trimming machine. A. C. Rogge and H. Gordon. 1,740,667; Dec. 24.  
 Heel securing means, rubber-shoe. N. B. Riddle. 1,731,321; Oct. 15.  
 Heel-shank-shaping machine. L. B. Pope. 1,704,445; Mar. 5.  
 Heel-shaping machine. C. Elbye and H. A. Bertram. 1,729,250-1; Sept. 24.  
 Heel, shoe. S. Greenwald. Des. 79,073; July 30.  
 Heel, shoe. P. Jones. 1,740,655; Dec. 24.  
 Heel, shoe. D. O. Marshall. 1,738,715; Dec. 10.  
 Heel-trimming machine. N. H. Knowlton. 1,724,205; Aug. 13.  
 Heel-turning machine, wood. N. W. Kinney. 1,707,985; Apr. 9.  
 Heel-turning machine, wood. A. A. McCann and C. Stotz. 1,700,233; Jan. 29.  
 Heels, Apparatus for producing wooden. F. A. Day. 1,728,396; Sept. 17.  
 Heels, Attaching rubber. J. F. Standish. 1,726,594; Sept. 3.  
 Heels for shoes, making wood. L. D. Dozier, J. W. Green, and F. J. Grindler. 1,710,923; Apr. 30.  
 Heels, making. C. Roberts. 1,717,583; June 18.  
 Heels, making combination. L. B. Conant. 1,699,953; Jan. 22.  
 Heels, Manufacture of wooden. J. Burger. 1,709,306; Apr. 16.  
 Heels, Mud guard for shoe. W. C. Huntington. 1,700,499; Jan. 29.  
 Heels or the like and making the same, Core for shoe. J. R. Gammeter. 1,731,657; Oct. 15.  
 Heels, Removable top lift for shoe. F. Maccaroni and F. T. Gentile. 1,725,810; Aug. 27.  
 Heels to shoes, Attaching. F. E. Bertrand. 1,722,267; July 30.  
 Helical spring. G. M. Eaton. 1,731,923; Oct. 15.  
 Helicopter. C. W. Jackson. 1,725,276; Aug. 20.  
 Helicopter. F. B. Many. 1,734,263; Nov. 5.  
 Helicopter. H. C. Privett. 1,739,984; Dec. 17.  
 Helicopter-control mechanism. H. F. Pitcairn. 1,701,762; Feb. 12.  
 Helicopter device. H. F. Pitcairn. 1,715,427; June 4.  
 Helicopter or flying toy. H. T. Nelson. 1,729,007; Sept. 24.  
 Helicopter, Toy. A. F. Bernier and W. E. Parnell. 1,708,999; Apr. 16.  
 Helmet. F. Dumin. 1,735,265; Nov. 12.  
 Helmet, Aviator's. A. A. Rodgers. 1,705,879; Mar. 19.  
 Helmet, Football. R. T. Mullins. 1,698,769; Jan. 15.  
 Hem folder and strip guide, Combined. J. Mann. 1,741,866; Dec. 31.  
 Hem gauge. F. A. Schultz. 1,700,857; Feb. 5.  
 Hemming or wetting machine. J. R. Moffatt. 1,712,047; May 7.  
 Hemostatic instrument. G. C. Salley. 1,704,871; Mar. 12.  
 Hemostyptic compound. H. Hahl and L. Schütz. 1,723,695; Aug. 6.  
 Hemp machine. K. Wessel. 1,712,910; May 14.  
 Hemstitching machine, Picot cutter for. A. E. Farrell. 1,733,220; Oct. 29.  
 Henhouse cleaner. C. Walterhouse. 1,730,398; Oct. 8.  
 Heptyl resorcinols and producing the same. A. R. L. Dohme. 1,717,098; June 11.  
 Heterodyne receiver arrangement, Beat-frequency. W. Kunze. 1,735,171; Nov. 12.  
 Hexylresorcinol, Preparing. H. Hirzel. 1,717,105; June 11.  
 Hide, skin, or leather working machine, Bladed. W. F. Ayles. 1,734,106; Nov. 5.  
 Hide-stretching device. E. Galante. 1,719,882; July 9.  
 Hides and the like, Method and apparatus for drying. J. A. Craig. 1,730,125; Oct. 1.  
 Hides, Tanning. W. S. Shaw. 1,722,398; July 30.  
 Hides, Treatment of. O. Röhm. 1,735,977; Nov. 19.  
 High chair, Collapsible. C. Ness. 1,739,895; Oct. 8.  
 High chair, Folding. H. A. Whiting, C. J. Hughes, and S. J. Maher. 1,738,339; Dec. 3.  
 High-frequency apparatus. G. F. du Prel. 1,721,271; July 16.  
 High-frequency communication, Apparatus for. H. B. Babson and G. W. Ankersen. 1,736,870; Nov. 26.  
 High-pressure boiler. D. S. Jacobus. 1,718,048; June 18.  
 High-pressure gauge, Sensitive. O. W. Heise. 1,723,548; Aug. 6.  
 High-pressure joint. F. H. Bramwell. 1,722,623; July 30.  
 High-pressure press. S. Humer. 1,700,407; Jan. 29.  
 High-resistance unit. G. A. Wells. 1,715,879; June 4.  
 High-speed feed for sheet metal. R. W. Strout. 1,740,844; Dec. 24.  
 High-speed mixer. R. M. Greenleaf and O. L. Routt. 1,725,186; Aug. 20.  
 High-temperature casting investment. C. A. Overmire. 1,719,276; July 2.  
 High-tension spark-amplifying means. P. O. Stewart. 1,717,472; June 18.  
 High vacua, Producing. H. S. Cooper. 1,721,544; July 23.  
 High-voltage instrument. F. S. Stickney. 1,702,453; Feb. 19.  
 High-voltage switch. L. C. Hart. 1,717,449; June 18.  
 High-voltage switch. W. R. Huttering. 1,742,077; Dec. 31.  
 Highway signal. W. V. Bergen and A. C. Shute. Re17,354; July 2.  
 Highway signal. D. Hewitt. 1,719,012; July 2.  
 Highway signal. D. M. Kennedy. 1,726,669; Sept. 3.  
 Highway-template construction and maintenance machine. C. E. Hair. 1,741,127; Dec. 24.  
 Hinge. E. Adams. 1,702,989; Feb. 19.  
 Hinge. W. E. Allen, jr. Des. 79,319; Sept. 3.  
 Hinge. R. F. Carpenter and T. F. Anderson. 1,698,390; Jan. 8.  
 Hinge. L. Donosa. 1,707,628; Apr. 2.  
 Hinge. E. Flagg. 1,722,204; July 23.  
 Hinge. W. J. Hamlett. Des. 78,203; Apr. 9.  
 Hinge. H. C. Hillin. 1,701,452; Feb. 5.  
 Hinge. W. S. Hoover. 1,726,512; Aug. 27.  
 Hinge. H. G. Kellogg. 1,723,042; Aug. 6.  
 Hinge. L. B. Paulson. 1,722,156; July 23.  
 Hinge. H. H. Raymond. Des. 79,910; Nov. 12.  
 Hinge. G. E. Roedding. Des. 79,846; Nov. 5.  
 Hinge. G. E. Roedding. Des. 79,846; Nov. 5.  
 Hinge. G. E. Roedding. Des. 80,090-1; Dec. 10.  
 Hinge. L. Thiry. 1,721,288; July 16.  
 Hinge. F. B. Walter. 1,697,801; Jan. 1.  
 Hinge and check, Combination door. N. T. Collins. 1,706,656; Mar. 26.  
 Hinge and mounting therefor. W. H. McBarron. 1,740,866; Dec. 24.  
 Hinge and stop, Concealed door. J. A. Hoegger. 1,738,705; Dec. 10.  
 Hinge, Automobile windshield. C. E. Jeffers. 1,734,810; Nov. 5.  
 Hinge, Ball-bearing. S. W. Persons. 1,738,015; Dec. 3.  
 Hinge, Cabinet-door. A. F. Wasmuth. 1,727,319; Sept. 3.  
 Hinge, Casket. J. Soss. 1,698,245; Jan. 8.  
 Hinge, compact plate holder, and ejector, Combined. W. G. Kendall. 1,700,059; Jan. 22.  
 Hinge, Concealed. D. S. Myers. 1,718,482; June 25.  
 Hinge, Concealed. A. Ridley. 1,735,696; Nov. 12.  
 Hinge construction. R. M. and A. McEwen. 1,700,638; Jan. 29.  
 Hinge construction. J. Ritter, jr. 1,710,714; Apr. 30.  
 Hinge construction. T. K. Syvrud. 1,703,969; Mar. 5.  
 Hinge device, Double-acting spring. J. M. Mohr. 1,721,967; July 23.  
 Hinge, Door. A. Arocha. 1,727,321; Sept. 10.  
 Hinge, Door. D. W. Thornton. 1,701,022; Feb. 5.  
 Hinge, Door. L. A. Woodruff. 1,710,396; Apr. 23.  
 Hinge, Dump-body. W. M. Hoge. 1,729,511; Sept. 24.  
 Hinge for a refrigerator. W. Schnell. Des. 78,409; Apr. 30.  
 Hinge for cans and forming said hinges. S. G. Gibson. 1,726,103; Aug. 27.  
 Hinge for convertible automobile seats. G. P. Kirchner. 1,720,280; July 9.  
 Hinge for foundry flasks, Adjustable. C. L. Gohmann. 1,699,839; Jan. 22.  
 Hinge for loose-leaf-book covers. R. J. Copeland. 1,697,634; Jan. 1.  
 Hinge for rear gates. G. Kuhlman. 1,740,772; Dec. 24.  
 Hinge for sliding window screens. C. F. Geschichter. 1,728,539; Sept. 17.  
 Hinge for toilet seats. J. W. Bishop. 1,734,556; Nov. 5.  
 Hinge for trunk cases, Expandable. H. Schwarzenberger and W. Schmidt. 1,707,027; Mar. 26.  
 Hinge hanger, Multiple. G. Garcia. 1,705,286; Mar. 12.  
 Hinge, Ironing-board. L. Dreckmann. 1,737,494; Nov. 26.  
 Hinge joint for connecting longitudinal members. C. M. Chamberlain. 1,724,694; Aug. 13.  
 Hinge last. G. B. Fitz. 1,715,594; June 4.  
 Hinge last. C. L. Sturgis. 1,705,594; Mar. 19.  
 Hinge, Link. R. A. White. 1,719,253; July 2.



- Hinge member for ophthalmic mountings. J. Fielding. 1,724,268; Aug. 13.
- Hinze, Oven-door. W. D. Antrim. 1,735,717; Nov. 12.
- Hinge plate. C. E. Horton. Des. 77,552; Jan. 22.
- Hinge, Shock-absorbing. L. Kan and F. J. Wilson. 1,722,428; July 30.
- Hinge strap. C. E. Horton. Des. 77,551; Jan. 22.
- Hinge structure. E. A. Regan. Re17,292; May 14.
- Hinge structure. L. O. Talbert. 1,704,351; Mar. 5.
- Hinge, Toilet-seat. H. P. de Correvont. Des. 79,957; Nov. 26.
- Hinge, Toilet-seat. P. A. Johnson. 1,734,169; Nov. 5.
- Hinge, Two-way. S. C. Lawrence. 1,698,136; Jan. 8.
- Hinged gate for testing the cylinders of submarines. P. Matthiessen and A. D. Möller. 1,710,585; Apr. 23.
- Hinged gate, Self-closing. W. Stewart. 1,717,473; June 18.
- Hinges for expandable suitcases, trunks, and the like. C. W. Cheney. 1,708,829; Apr. 9.
- Hinges, Making. J. Soss. 1,705,507; Mar. 19.
- Hinges, Making. J. W. Welsh and F. A. Stevens. 1,708,202; Apr. 9.
- Hinges, Manufacturing covered. C. B. Parsons. 1,723,628; Aug. 6.
- Hinges, Manufacturing covered-joint. W. C. Kenyon. 1,699,242; Jan. 15.
- Hitch. H. F. Bork. 1,728,098; Sept. 10.
- Hitch. J. F. Moses. 1,717,398; June 18.
- Hitch. J. H. Pixley. 1,737,058; Nov. 26.
- Hitch device. L. A. Paradise. 1,715,779; June 4.
- Hitch, Draft. J. W. Starnes. 1,731,730; Oct. 15.
- Hitch for connecting tractors to dump wagons, etc. C. Davis. 1,713,331; May 14.
- Hitch for hay bunks, Tractor. H. Thompson. 1,705,318; Mar. 12.
- Hitch for logging carts, Tractor. L. B. Fowler and E. K. Allen. 1,732,835; Oct. 22.
- Hitch, Harrow. T. Scrabeck. 1,732,989; Oct. 22.
- Hitch, Implement. R. A. Ferguson. 1,726,660; Sept. 3.
- Hitch, Implement. W. S. Graham. 1,721,694; July 23.
- Hitch, Offset. G. Tolman. 1,731,363; Oct. 15.
- Hitch or clevis for dragline buckets. R. Ljungkull. 1,710,740; Apr. 30.
- Hitch, Plow. J. L. Hipples. 1,725,397; Aug. 20.
- Hitch, Tractor. C. Davis. 1,713,332; May 14.
- Hitch, Tractor. G. H. Zek. 1,733,146; Oct. 29.
- Hitch, Traller. D. I. Fogger. 1,736,433; Nov. 19.
- Hob. J. W. Brussel. 1,728,198; Sept. 17.
- Hob. R. Linn. 1,724,608; Aug. 13.
- Hobber, Swiveled cutter. W. F. Zimmermann. 1,699,264; Jan. 15.
- Hobbyhorse. A. C. P. Hague. 1,708,090; Apr. 9.
- Hobbyhorse. S. Moore. 1,705,991; Mar. 19.
- Hobs, Making. J. W. Brussel. 1,734,553; Nov. 5.
- Hoe. W. S. Davis. 1,706,658; Mar. 26.
- Hoe attachment for corn cultivators, Rotary. J. A. Fulk and L. J. McCormick. 1,719,292; July 2.
- Hoe attachment for cultivators, Rotary. J. L. Winkler. 1,718,510; June 25.
- Hoe, Double garden. E. Urban. 1,699,933; Jan. 22.
- Hoe, Hand. G. K. Spitzenberg. 1,722,063; July 23.
- Hoes, Traveling back anchor for power. W. W. Sayers. 1,734,882; Nov. 5.
- Hoffmann furnace. L. Zilli. 1,717,825; June 18.
- Hog feeder. W. A. McCollough. 1,718,472; June 25.
- Hog greaser. W. A. Elliott. 1,724,345; Aug. 13.
- Hog house. H. Prange. 1,701,337; Feb. 5.
- Hog house, Knockdown. M. Cope. 1,739,387; Dec. 10.
- Hog house, Sanitary. G. W. Smidley. 1,710,118; Apr. 23.
- Hog ring. E. Wells. 1,718,992; July 2.
- Hog ringer. R. V. McNabb. 1,710,742; Apr. 30.
- Hog scaldier. W. Becher, jr. 1,739,436; Dec. 10.
- Hogshhead, Tobacco. B. S. Clarkson and W. E. Caldwell. 1,704,787; Mar. 12.
- Hoist. G. E. Baldwin and A. Sinning. 1,711,401; Apr. 30.
- Hoist. A. H. Chappelka. 1,729,262; Sept. 24.
- Hoist. W. H. Grenier. 1,699,587; Jan. 22.
- Hoist. D. S. Kimmerle. 1,719,297; July 2.
- Hoist. R. C. Osgood. 1,740,707; Dec. 24.
- Hoist. C. P. Ross. 1,722,235; July 23.
- Hoist. A. D. Saborsky. 1,720,240; July 9.
- Hoist. N. K. Smith. 1,716,906; June 11.
- Hoist. E. A. Thielen. 1,712,179; May 7.
- Hoist. C. J. Weber and R. A. Seek. 1,728,460; Sept. 17.
- Hoist and lock, Beam. H. A. Davis. 1,704,885; Mar. 12.
- Hoist, Automatic. W. E. Howlett. 1,732,232; Oct. 22.
- Hoist, Automobile. F. J. Casey. 1,702,460; Feb. 19.
- Hoist brake. L. J. Cudahy. 1,728,594; Sept. 17.
- Hoist control. W. J. Lilly and H. H. Logan. Re17,374; July 16.
- Hoist controller. A. E. Johnson. 1,720,840; July 16.
- Hoist drum. E. E. Greve. 1,700,313; Jan. 29.
- Hoist, Dumping-body. E. R. Barrett. 1,715,491; June 4.
- Hoist, Fluid-pressure-operated. R. A. Riddle and W. D. Carpenter. 1,725,302; Aug. 20.
- Hoist for motor vehicles. H. Swanson. 1,714,644. May 28.
- Hoist for trucks, Dump-bed. G. T. Summers. 1,726,723; Sept. 3.
- Hoist, Mast. C. G. Schmid. 1,714,990; May 28.
- Hoist mechanism for loading skips, Safety. E. H. Lichtenberg. 1,720,048; July 9.
- Hoist, Motor. J. A. Shepard. 1,701,017; Feb. 5.
- Hoist, Skip. R. H. Beaumont. 1,707,954; Apr. 2.
- Hoist, Skip. A. Warner. 1,707,958; Apr. 2.
- Hoist structure for excavating machines, Boom-. G. A. Vaughn. 1,708,598; Apr. 9.
- Hoist structure, Skip-. R. H. Beaumont. 1,708,913; Apr. 9.
- Hoist, Traversing. G. A. Grab. 1,734,330; Nov. 5.
- Hoist, Truck. W. Savini. 1,727,942; Sept. 10.
- Hoisting and load-discharging machine. F. J. Shepard, jr., and N. Warsaw. 1,707,881; Apr. 2.
- Hoisting and lowering carrier. B. Cartwright. 1,717,006; June 11.
- Hoisting and transporting device. D. C. Crichton. 1,732,153; Oct. 15.
- Hoisting apparatus. R. H. Beaumont. 1,707,197; Mar. 26.
- Hoisting apparatus. R. E. Brown. 1,704,496; Mar. 5.
- Hoisting apparatus. T. Carlson. 1,731,970; Oct. 15.
- Hoisting apparatus. H. Enard. 1,732,507; Oct. 22.
- Hoisting apparatus. C. O. Farnham. 1,737,753; Dec. 3.
- Hoisting apparatus. R. H. Fink. 1,719,216; July 2.
- Hoisting apparatus. C. Zetterlund. 1,701,939; Feb. 12.
- Hoisting device. P. E. Countryman. 1,704,882; Mar. 12.
- Hoisting device. T. N. Garson. 1,707,517-8; Apr. 2.
- Hoisting hook. H. Amos. 1,725,609; Aug. 20.
- Hoisting machine, Four-post. N. Warsaw. 1,710,442; Apr. 23.
- Hoisting mechanism. E. R. Barrett. 1,726,797; Sept. 3.
- Hoisting mechanism. W. R. Edmister. 1,728,233; Sept. 17.
- Hoisting mechanism. E. A. Hathaway. 1,730,848; Oct. 8.
- Hoisting mechanism. J. F. Henderson. 1,728,861; Sept. 17.
- Hoisting mechanism. W. S. Hofstra. 1,742,142; Dec. 31.
- Hoisting mechanism. M. P. Holmes. 1,742,168; Dec. 31.
- Hoisting mechanism. L. A. Maxson. 1,708,677; Apr. 9.
- Hoisting mechanism. L. A. Maxson. 1,742,088; Dec. 31.
- Hoisting mechanism. C. F. Osgood. 1,708,188; Apr. 9.
- Hoisting mechanism. C. F. Osgood. 1,740,706; Dec. 24.
- Hoisting mechanism. C. F. Osgood. 1,742,180; Dec. 31.
- Hoisting mechanism. R. C. Osgood. 1,740,704-5; Dec. 24.
- Hoisting mechanism for charging hoppers. A. S. Johnson. 1,714,957; May 28.
- Hoisting mechanism, Portable. F. O. Snow, jr. 1,699,480; Jan. 15.
- Hoisting tackle. F. H. Emery. 1,729,252; Sept. 24.
- Hoists, Emergency stop mechanism for. C. F. Bledsoe. 1,716,025; June 4.
- Hoists, Headframe for mast. C. G. Schmid. 1,703,067; Feb. 19.
- Holdback. D. C. Turnbull. 1,697,333; Jan. 1.
- Holdback device and door closer. W. F. Moore and B. J. Storer. 1,728,693; Sept. 17.
- Hold-down device. G. C. Fedderman. 1,739,828; Dec. 17.
- Hold-down device for automobiles. G. C. Fedderman. 1,739,827; Dec. 17.
- Holder. D. O. Alverson. 1,725,241; Aug. 20.
- Holder. W. G. Bryant. 1,712,689; May 14.
- Holder. C. March. 1,727,240; Sept. 3.
- Holder. F. Peterson. 1,698,606; Jan. 8.
- Holder, Adjustable ladle. M. W. Goldberg. 1,721,660; July 23.
- Holder, Adjustable lamp. F. H. Owens. 1,735,334; Nov. 12.
- Holder, Adjustable pencil. M. Spikins. 1,704,772; Mar. 12.
- Holder and adjustable clamp, Pad. W. C. Hierung. 1,728,285; Sept. 17.
- Holder and adjuster, Tire-rim. G. Homiak. 1,712,347; May 7.
- Holder and antirattler, Automobile door. J. L. Croll and L. F. Lutz. 1,712,813; May 14.
- Holder and ash receptacle, Combination cigarette. L. Meyerson. 1,706,244; Mar. 19.
- Holder and ash tray, Combination cigarette. R. C. Irwin. Des. 77,602; Jan. 29.
- Holder and blade therefor, Tool. J. M. Luers. 1,701,980; Feb. 12.
- Holder and bumper, Door. J. A. Dann. 1,732,329; Oct. 22.
- Holder and cap, Combined cigarette. W. J. Baker. Des. 78,723; June 18.
- Holder and case, Combined. L. R. Coppage. 1,702,996; Feb. 19.
- Holder and change purse, Combination ticket. W. A. Taylor. 1,701,595; Feb. 12.
- Holder and closure for open-mouth containers. A. N. Hornung. 1,697,425; Jan. 1.
- Holder and cooler, Cake. E. L. Parker. 1,703,453; Feb. 26.
- Holder and cover, Jar. A. Adamczyk. 1,731,405; Oct. 15.
- Holder and cutter, Check. C. T. Raschick. 1,731,792; Oct. 15.
- Holder and dauber. Combination lip-stick. M. Bengal. 1,703,257; Feb. 26.
- Holder and direction indicator for automobiles, Combination illuminated license-plate. P. J. Burde. Des. 79,620; Oct. 22.
- Holder and dispenser, Combined cigarette. C. C. Graham. Des. 78,810; June 25.
- Holder and display rack, Bag. T. P. McCarthy. 1,706,307; Mar. 19.
- Holder and dress protector, Bouquet. P. H. Talbot. 1,725,490; Aug. 20.
- Holder and ejector, Combined cigarette. A. W. Easton. 1,721,438; July 16.
- Holder and filler for same, Towel. C. W. Thompson. 1,700,817; Feb. 5.
- Holder and label for cloth boards or bolts, Sample. A. C. House. 1,710,662; Apr. 23.



- Holder and lighter, Combined cigarette. G. R. Stewart. 1,704,844; Mar. 12.
- Holder and opener, Box. J. H. Crowell. 1,711,225; Apr. 30.
- Holder and punch, Check. O. F. Forslund. 1,735,241; Nov. 12.
- Holder and reading case, Book. F. G. Hendrickson. 1,721,558; July 23.
- Holder and retainer, Pan. H. Maas. 1,710,368; Apr. 23.
- Holder and rewinder, Paper. B. W. Freeman. 1,722,133; July 23.
- Holder and sharpener, Combined pencil. J. M. Stone. 1,728,774; Sept. 17.
- Holder and signal, Combined license-plate. H. Brewster. 1,723,463; Aug. 6.
- Holder and stand, Combination music-sheet. S. Manus. 1,724,492; Aug. 13.
- Holder and starter, Combined sash. R. T. Axe. 1,712,480; May 14.
- Holder and stretcher, Necktie. M. A. Skuterud. 1,702,880; Feb. 19.
- Holder and support, Bottle-stopper. E. J. Sovatkin. 1,721,644; July 23.
- Holder and swab therefor, Swab. J. T. Berthelote. 1,713,815; May 21.
- Holder and tensioner, Combined spool. C. R. Keefer. 1,730,431; Oct. 8.
- Holder and the like, Reflector. D. M. Hotchkin. 1,725,193; Aug. 20.
- Holder and tightener for drawing boards, Drawing. F. T. Ewald. 1,720,121; July 9.
- Holder and tilter, Bottle. J. A. Mangold. 1,742,041; Dec. 31.
- Holder and tobacco container, Combined pipe. B. F. Conner. Des. 79,065; July 30.
- Holder and turner, Music-leaf or book-page. T. G. Hight. 1,701,109; Feb. 5.
- Holder and wringer, Combined mop. G. P. Regan. 1,710,190; Apr. 23.
- Holder, Animal. O. A. Reeves. 1,713,624; May 21.
- Holder, Arm and bottle. J. A. Heinz. 1,740,344; Dec. 17.
- Holder, Article. H. Burton. 1,719,870; July 9.
- Holder, Article. S. A. Gregory. 1,736,591; Nov. 19.
- Holder, Article. J. C. Hamilton. 1,728,608; Sept. 17.
- Holder, Artificial-tooth. M. Charen. 1,698,256; Jan. 8.
- Holder, Ash-tray. G. W. Oliver. 1,716,530; June 11.
- Holder, Automatic burr. S. Metrick and W. Avstreih. 1,715,667; June 4.
- Holder, Automobile card. A. C. Gohn. 1,701,106; Feb. 5.
- Holder, Automobile trunk. M. J. Wisby. 1,705,797; Mar. 19.
- Holder, Baby. A. S. Losey. 1,697,363; Jan. 1.
- Holder, Bag. E. A. Carlson. 1,716,763; June 11.
- Holder, Bag. E. P. Donnellan. 1,725,345; Aug. 20.
- Holder, Bag. J. W. Lantz. 1,731,341; Oct. 15.
- Holder, Bag. E. A. Laughon. 1,713,185; May 14.
- Holder, Bag. J. Leicht, jr. 1,723,794; Aug. 6.
- Holder, Bag. E. A. Marsh. 1,717,717; June 18.
- Holder, Bag. J. Medlock. 1,700,641; Jan. 29.
- Holder, Bag. J. E. Wolfe. 1,700,248; Jan. 29.
- Holder, Bathroom shower-curtain. C. S. Downs. 1,728,948; Sept. 3.
- Holder, Bearings. F. Glass. 1,708,836; Apr. 9.
- Holder, Bedclothes. G. A. McDonnell. 1,732,852; Oct. 22.
- Holder, Bed-end. A. J. Birchler. 1,717,306; June 11.
- Holder, Bedstead book. J. E. Moran. 1,699,853; Jan. 22.
- Holder, Bill. E. M. Gattle. 1,737,230; Nov. 26.
- Holder, Blade. T. F. Crowley. 1,727,160; Sept. 3.
- Holder, Blade. C. P. Shinn, jr. 1,729,279; Sept. 24.
- Holder, Bobbin. F. A. Lazenby. 1,702,906; Feb. 19.
- Holder, Bobbin. J. J. Pichette. 1,726,764; Sept. 3.
- Holder, Book. L. W. Jung. 1,730,371; Oct. 8.
- Holder, Book and copy. R. P. Smith. 1,710,120; Apr. 23.
- Holder, Bottle. G. S. Clark. 1,701,608; Feb. 12.
- Holder, Bottle. C. M. Cowan and D. S. Minnicar. 1,712,468; May 7.
- Holder, Bottle. H. M. Enz. 1,740,233; Dec. 17.
- Holder, Bottle. J. Halma. 1,700,934; Feb. 5.
- Holder, Blade. M. J. Engel. 1,741,924; Dec. 31.
- Holder, Blade. C. E. Gahagan. 1,738,365; Dec. 3.
- Holder, Brake-pedal. E. F. Christ. 1,707,113; Mar. 26.
- Holder, Brush. A. E. Buchenberg. 1,736,844; Nov. 26.
- Holder, Brush. H. G. Volkening. 1,714,935; May 28.
- Holder, Candle. A. von Frankenberg. Des. 77,659; Feb. 5.
- Holder, Carbon. J. L. Westhaver. 1,711,709; May 7.
- Holder, Card. E. B. Bartholic. 1,732,629; Oct. 22.
- Holder, Card. W. B. Bolsinger. 1,700,279; Jan. 29.
- Holder, Card. G. R. Bossetta. 1,716,258; June 4.
- Holder, Card. J. B. Nixon. 1,708,026; Apr. 9.
- Holder, Card. F. P. Slosser. 1,718,315; June 25.
- Holder, Card. O. A. Youngren. 1,705,349; Mar. 12.
- Holder, Card. T. E. Wykes, jr. 1,728,741; Sept. 17.
- Holder, Card or sheet. G. P. Wigginton. 1,697,296; Jan. 1.
- Holder, Casserole. S. W. Farber. Des. 78,458; May 7.
- Holder, Catamenial-bandage. E. B. Harrington. 1,730,765-6; Oct. 8.
- Holder, Certificate. F. H. Bronner. 1,741,608; Dec. 31.
- Holder, Certificate. J. H. Duncan. 1,712,693; May 14.
- Holder, Certificate. G. A. E. Mellin. 1,712,088; May 7.
- Holder, Check. E. K. Bottle and J. W. Anderson. 1,718,808; June 25.
- Holder, Check. J. Huber, jr. 1,715,081; May 28.
- Holder, Check-book. H. A. Smith. 1,698,828; Jan. 15.
- Holder, Christmas-tree. A. P. Danner. 1,714,498; May 28.
- Holder, Cigar. J. W. Gaskill. 1,728,237; Sept. 17.
- Holder, Cigar. J. G. Lopez. 1,734,815; Nov. 5.
- Holder, Cigar and cigarette. J. M. Roberts. 1,731,475; Oct. 15.
- Holder, Cigarette. N. J. Darrow and J. F. French. 1,699,956; Jan. 22.
- Holder, Cigarette. S. J. Faranda. 1,730,033; Oct. 1.
- Holder, Cigarette. H. House. 1,731,574; Oct. 15.
- Holder, Cigarette. C. Schönfeld. 1,705,099; Mar. 12.
- Holder, Cigarette. W. Wenecek. 1,733,212; Oct. 29.
- Holder, Cigarette-package. J. Wolfe. 1,702,187; Feb. 12.
- Holder, Clothes. J. E. Poole. 1,708,777; Apr. 9.
- Holder, Clothesline. J. W. Johansen. 1,719,182; July 2.
- Holder, Clothesline. C. A. Kjellin. 1,700,897; Feb. 5.
- Holder, Clothespin. O. Nusser. 1,738,260; Dec. 3.
- Holder, Clutch-pedal. W. G. Haehl. 1,697,727; Jan. 1.
- Holder, Coil. H. M. Naugle and A. J. Townsend. 1,740,260; Dec. 17.
- Holder, Collapsible. M. Seelav. 1,729,129; Sept. 24.
- Holder, Collar. F. A. Ballou. 1,733,112; Oct. 29.
- Holder, Collar. E. S. Smith. 1,722,712; July 30.
- Holder, Comb. J. H. Bock. 1,730,798; Oct. 8.
- Holder, Combination brush and mop. W. Wellington. 1,728,845; Sept. 17.
- Holder, Combination radiator cap and motometer. D. W. Blanc. 1,707,344; Apr. 2.
- Holder, Combined lamp and license-plate. O. O. Ritz Woller. 1,698,562; Jan. 8.
- Holder, Compact. W. G. Kendall. 1,704,616; Mar. 5.
- Holder, Condiment. G. Pappadakes. 1,721,830; July 23.
- Holder, Cone. E. A. Magill. 1,732,057; Oct. 15.
- Holder, Confection. V. A. Van Horne. 1,720,190; July 9.
- Holder, Confectionery. H. Marsh. 1,723,944; Aug. 6.
- Holder, Container display. O. A. Drehmann. 1,711,877; May 7.
- Holder, Cop or cone. E. C. Lewis. 1,728,417; Sept. 17.
- Holder, Copy. S. Sattler. 1,715,472; June 4.
- Holder, Cord. A. Hopkins. 1,719,766; July 2.
- Holder, Cow-tail. S. I. West and C. F. Sawyer. 1,739,565; Dec. 17.
- Holder, Cow's-tail. J. Jutting. 1,698,816; Jan. 15.
- Holder, Cultivator-shield. L. R. Teague and J. Graybill. 1,698,611; Jan. 8.
- Holder, Curtain. M. Correia. 1,722,899; July 30.
- Holder, Curtain. H. Dalton. 1,741,504-5; Dec. 31.
- Holder, Curtain. H. Kasbarian. 1,739,551; Dec. 17.
- Holder, Curtain. O. Paul. 1,711,463; Apr. 30.
- Holder, Cut-flower. A. J. Binley. 1,707,896; Apr. 2.
- Holder, Daylight-charging, photographic-plate. H. Chauvin. 1,717,187; June 11.
- Holder, Dental burr. J. M. Hothersall and V. Odquist. 1,705,515; Mar. 19.
- Holder, Dental cotton. F. L. Dailey. 1,722,903; July 30.
- Holder, Dental film or plate. E. P. Cressler. 1,719,106; July 2.
- Holder, Dental floss. R. W. Cammack. 1,723,842; Aug. 6.
- Holder, Dental floss. E. G. Stafford. 1,700,550-1; Jan. 29.
- Holder, Dental roll. F. L. Dailey. 1,730,266; Oct. 1.
- Holder, Dental X-ray-film. J. G. Heckel. 1,706,117; Mar. 19.
- Holder, Deodorant. M. Meyer. 1,731,431; Oct. 15.
- Holder, Desk fountain-pen. I. Salz. 1,737,948; Dec. 3.
- Holder, Detachable. G. Lefebvre. 1,710,457; Apr. 23.
- Holder, Disk gas. K. Jagschitz. 1,722,093; July 23.
- Holder, Dispensing paper. A. R. Rapp. 1,713,857; May 21.
- Holder, Display. M. L. Beistle. 1,719,962; July 9.
- Holder, Doll twine. S. A. Shaw. Des. 78,490; May 7.
- Holder, Door. N. C. De Loss. 1,720,886; July 16.
- Holder, Door. G. L. Fuller. 1,704,967; Mar. 12.
- Holder, Door. W. H. Morris. 1,709,864; Apr. 23.
- Holder, Door. W. W. Myers. 1,721,257; July 16.
- Holder, Door. W. J. Orr. 1,711,282; Apr. 30.
- Holder, Door. H. S. Wilson. 1,212,099; May 7.
- Holder, Electrode. A. E. Bicey. 1,729,059; Sept. 24.
- Holder, Electrode. F. M. Bowers. 1,723,760; Aug. 6.
- Holder, Electrode. H. Griffiths. 1,732,441; Oct. 22.
- Holder, Electrode. E. Molmark. 1,702,359; Feb. 19.
- Holder, Electrode. M. Wells. 1,706,907; Mar. 26.
- Holder, Eraser. A. F. Henderson. 1,725,075; Aug. 20.
- Holder, Eraser. A. G. Stevenson. 1,721,059; July 16.
- Holder, Eraser. W. A. Stuart. 1,703,603; Feb. 26.
- Holder, File. V. L. Bianchi and G. A. Holsberg. 1,707,207; Mar. 26.
- Holder, File. W. M. Howser. Re17,516; Dec. 10.
- Holder, File. J. E. Malloy. 1,714,514; May 28.
- Holder, Film. C. E. Kohlberger. 1,717,228; June 11.
- Holder, Film. H. G. Ponting and G. W. Ford. 1,707,767; Apr. 2.
- Holder, Film. T. Wallace. 1,723,590; Aug. 6.
- Holder, Film-reel. J. McGarty. 1,728,244; Sept. 17.
- Holder, Fire-extinguisher safety. R. W. McMullen. 1,727,213; Sept. 3.
- Holder, Fishhook. H. V. Burt. 1,697,588; Jan. 1.
- Holder, Fishing-pole. S. G. Slauter and H. N. Copeland. 1,703,554; Feb. 26.
- Holder, Flag. C. H. Leap. 1,707,557; Apr. 2.
- Holder, Flag. C. Lorber. 1,739,009; Dec. 10.
- Holder, Floating tool. G. J. Draeger. 1,721,378; July 16.
- Holder, Flower. F. H. Axell. Des. 77,348; Jan. 1.
- Holder, Flower. H. H. Borchers. 1,737,991; Dec. 3.
- Holder, Flower. R. G. Cowan. Des. 79,182-3; Aug. 13.
- Holder, Flower. R. L. Mayhugh. 1,704,096; Mar. 5.
- Holder, Flux. J. C. Lincoln. 1,722,929; July 30.
- Holder, Food. H. F. Wolverson. 1,717,644; June 18.



- Holder for a blotter, Hand. G. B. Kostenbader. Des. 79,089; July 30.
- Holder for a jar or similar article. K. Hagenauer. Des. 80,080; Dec. 10.
- Holder for anchor bolts and the like. G. A. Bennet. 1,726,286; Aug. 27.
- Holder for arc lamps, Electrode. J. R. Quain. 1,703,595; Feb. 26.
- Holder for arc welding electrodes, Manual. A. Marland. 1,717,342; June 11.
- Holder for articles of stationery. C. Horix. 1,719,840; July 9.
- Holder for artificial flowers, Core. W. Loeben. 1,715,461; June 4.
- Holder for artificial teeth, Display. L. Pickering. 1,702,312; Feb. 19.
- Holder for automobiles, Card. L. D. Tucker and C. A. Boylan. 1,697,700; Jan. 1.
- Holder for automobiles, Electric fuse. J. W. Patrick. 1,737,329; Nov. 26.
- Holder for books, Case. A. Winner. 1,705,166; Mar. 12.
- Holder for books, Leaf. R. W. Martland, jr. 1,702,787; Feb. 19.
- Holder for bottle-washing machines, Bottle. J. E. Ayers. 1,724,336; Aug. 13.
- Holder for boxes. A. C. Lippert and J. V. Flagmeier. 1,704,047; Mar. 5.
- Holder for cakes or pads of steel wool. B. Pintel. 1,723,520; Aug. 6.
- Holder for camp cots, Bedclothes. A. C. Payette. 1,706,588; Mar. 26.
- Holder for cemeteries, Flower. H. W. Miller. 1,717,576; June 18.
- Holder for Christmas trees, etc. W. A. Finnegan. Re17,505; Nov. 26.
- Holder for Christmas trees, etc. W. A. Finnegan. 1,706,223; Mar. 19.
- Holder for Christmas trees, Light. H. J. Miller. 1,737,381; Nov. 26.
- Holder for closures, such as lids, sashes, doors, and the like. L. B. Cornwell. 1,707,511; Apr. 2.
- Holder for coin-counting machines, Wrapper. E. P. Donnellan. 1,710,353; Apr. 23.
- Holder for combs. A. Pedersen. 1,721,165; July 16.
- Holder for comparators, Tap. R. E. Flanders and R. O. Beardsley. 1,737,579; Dec. 3.
- Holder, Combined nipple and bottle. G. R. Livergood. 1,739,910; Dec. 17.
- Holder for containers, Card. J. B. Gocke. 1,708,614; Apr. 9.
- Holder for cooking utensils, Cover. W. H. Schmitt. 1,740,042; Dec. 17.
- Holder for creameries, Test-bottle. C. Moe. 1,735,051; Nov. 12.
- Holder for cut flowers. M. Alland. 1,732,213; Oct. 22.
- Holder for cutter heads, Knife. C. L. Mattison. 1,710,097; Apr. 23.
- Holder for cylinder-grinding machines, Work. J. J. Schmidt and U. Steiner. 1,697,782; Jan. 1.
- Holder for dental foss. E. W. Eby. 1,725,703; Aug. 20.
- Holder for dipping devices. F. Schimmel. 1,725,424; Aug. 20.
- Holder for double-blow heading machines, Punch. J. E. Pracy. 1,709,876; Apr. 23.
- Holder for double-stroke solid-die headers, Tool. C. T. Brennan. 1,713,071; May 14.
- Holder for drill-steel guides, Bushing. E. J. Downing, B. R. Sheets, and L. E. Croft. 1,728,337; Sept. 17.
- Holder for eggs. E. E. Warnes. 1,699,935; Jan. 22.
- Holder for electric arc welders, Electrode. C. Waglie. 1,730,397; Oct. 8.
- Holder for electric conductors. A. Rapisardi. 1,740,035; Dec. 17.
- Holder for electric safety razors. W. P. Aron. 1,719,827; July 9.
- Holder for embossing machines, Plate and die. E. A. Bartel. 1,708,687; Apr. 9.
- Holder for fishing rods. W. A. Van Brunt. 1,720,982; July 16.
- Holder for flash lights or similar articles. C. O. Swenson. 1,718,316; June 25.
- Holder for flower pots and cut flowers. J. Favata, jr. 1,712,986; May 14.
- Holder for fountain pens. H. L. Blackman. Re17,282; Apr. 23.
- Holder for fountain pens. H. L. Blackman. 1,705,656; Mar. 19.
- Holder for glass bowls or the like. L. Zweig. Des. 79,346; Sept. 3.
- Holder for golf bags, Ball. M. B. Fischer. 1,718,952; July 2.
- Holder for golf-club shafts, Tee. H. F. Stanton. 1,709,546; Apr. 16.
- Holder for graphic instruments. E. Oldenbusch. 1,730,287; Oct. 1.
- Holder for graves, Combination wreath and bouquet. S. E. and G. W. Loper. 1,720,338; July 9.
- Holder for hammer handles, Punch. G. W. Gerhardt. 1,712,343; May 7.
- Holder for kitchen tables, Supply. L. W. Beman. 1,730,345; Oct. 8.
- Holder for lathe tailstocks, Drill. J. E. Dwyer. 1,718,279; June 25.
- Holder for leads of different kind, thickness, or color, Pencil. A. Kinzinger. 1,737,798; Dec. 3.
- Holder for luminous tubes, Yielding. R. Grandjean. 1,704,472; Mar. 5.
- Holder for magazines or similar articles. A. E. Howe. Des. 78,392; Apr. 30.
- Holder for marking tickets. O. H. Pierce. 1,740,832; Dec. 24.
- Holder for miners' lamps. G. B. Simmons. 1,715,148; May 28.
- Holder for mixers, Bottle. H. W. Quade. 1,723,658; Aug. 6.
- Holder for motor vehicles, License-certificate. O. R. Hauge. 1,729,872; Oct. 1.
- Holder for nursing bottles and the like. G. R. Livergood. 1,739,909; Dec. 17.
- Holder for paper bags and the like, Display. E. Sebastian. Des. 39,214; Aug. 13.
- Holder for paper towel and the like. J. C. Sherman. 1,724,428; Aug. 13.
- Holder for phonograph, Rotary needle. E. M. Hewson, sr. 1,721,781; July 23.
- Holder for photographic cameras, Roll. B. D. Chamberlain. 1,704,789; Mar. 12.
- Holder for plow or cultivator scrapes or sweeps. C. S. Gurr and J. S. Pope. 1,708,723; Apr. 9.
- Holder for polishing devices. F. Jenkins. 1,725,002; Aug. 20.
- Holder for portable meters, Fuse. B. G. La Bar. 1,740,466; Dec. 24.
- Holder for pressure-fluid-operated tools. E. H. Shaff. 1,729,131; Sept. 24.
- Holder for railway cars, Resilient sheet. D. A. Cooper. 1,741,558; Dec. 31.
- Holder for railway cars, Route and defect card board. J. J. Tatum. 1,726,869; Sept. 3.
- Holder for razor blades. A. R. A. Hage. 1,697,355; Jan. 1.
- Holder for receptacles. H. J. Engbrecht. 1,716,037; June 4.
- Holder for revolving brushes, Brush. J. K. Kostko. 1,707,403; Apr. 2.
- Holder for roentgenographs, Transparent. W. C. Grant. 1,730,883; Oct. 8.
- Holder for rolls, Package. J. P. Nielsen. Re17,260; Apr. 9.
- Holder for sales books, Tissue. W. O. Critchfield. 1,733,865; Oct. 29.
- Holder for scouring devices. J. J. Brell. 1,721,067; July 16.
- Holder for sensitized paper. C. B. Trussell. 1,722,718; July 30.
- Holder for sewing machines, Auxiliary spool. D. B. Jose. 1,741,632; Dec. 31.
- Holder for shades or reflectors. L. C. Doane. 1,701,175; Feb. 5.
- Holder for sharpeners, Pencil. C. C. Spengler. 1,722,771; July 30.
- Holder for shoe ornament. M. Goldstein. 1,728,963; Sept. 24.
- Holder for steel wool. G. Lange. 1,718,909; June 25.
- Holder for stick material. C. N. Coryell. 1,697,750; Jan. 15.
- Holder for stick material. C. N. Coryell. 1,734,116-7; Nov. 5.
- Holder for tank cars, Placard. S. L. Joiner. 1,720,276; July 9.
- Holder for the bindings of books for supplemental sheets. R. W. White. 1,709,450; Apr. 16.
- Holder for tools used for turning and planing iron and other metals. H. B. Cole. 1,720,820; July 16.
- Holder for trial frames, Lens. H. H. Styll. 1,730,392; Oct. 8.
- Holder for tumbler, brushes, and collapsible tube, Combination. J. M. G. Gillilan. Des. 79,554; Oct. 8.
- Holder for typewriters, Paper. L. Denzer. 1,736,112; Nov. 19.
- Holder for watchcases, Strap. I. Dinstman. 1,730,920; Oct. 8.
- Holder for weft-replenishing looms, Thread. W. E. Lundgren. 1,722,930; July 30.
- Holder for wire. G. McLean. 1,699,005; Jan. 15.
- Holder for yarn cones. L. B. Hasbrouck. 1,705,762; Mar. 19.
- Holder for yarn packages. A. L. Remington. 1,740,784; Dec. 24.
- Holder, Fountain pen. C. G. Gregory. 1,732,467; Oct. 22.
- Holder, Fountain-pen. B. W. Hanle. Des. 79,190; Aug. 13.
- Holder, Fountain-pen. C. W. Utzman. 1,730,487; Oct. 8.
- Holder, Fruit. A. P. Barnes. 1,720,115; July 9.
- Holder, Fuse. C. A. Tozer and P. Hunter. 1,719,859; July 9.
- Holder, Garment. R. Bass. 1,740,643; Dec. 24.
- Holder, Garment. H. G. McComb. 1,722,056; July 23.
- Holder, Garment-display. H. Schwartzman. 1,720,295; July 9.
- Holder, Gas. P. M. Kuehn. 1,711,392; Apr. 30.
- Holder, Gas. J. R. L. Santos. 1,699,162; Jan. 15.
- Holder, Gem stick. F. Havlicek. 1,730,767; Oct. 8.
- Holder, Globe. E. F. Guth. 1,710,730; Apr. 30.
- Holder, Globe. J. A. O'Neil. 1,742,179; Dec. 31.
- Holder, Golf-bag. L. A. Snow and F. W. Duncan. 1,731,755; Oct. 15.
- Holder, Golf-ball. F. D. Fredette. 1,722,134; July 23.
- Holder, Golf-tee. E. J. Brauer. 1,702,890; Feb. 19.
- Holder, Golf-tee. A. B. Buhrke. 1,739,780; Dec. 17.



- Holder, Golf-tee. J. N. and G. S. Falcone. 1,703,138-9; Feb. 26.
- Holder, Golf-tee. A. T. Gottlieb. 1,723,276; Aug. 6.
- Holder, Hack-saw-blade. P. T. Schubert. 1,726,241; Aug. 27.
- Holder, Haircloth and bib. J. G. Hulme. 1,734,626; Nov. 5.
- Holder, Ham. F. L. Cherry. 1,697,809; Jan. 1.
- Holder, Ham. F. L. Cherry. 1,711,195; Apr. 30.
- Holder, Handle. C. J. Rocquin. 1,718,436; June 25.
- Holder, Harmonica. L. A. Elkington. 1,734,799; Nov. 5.
- Holder, Harmonica-music. F. Miller. 1,722,852; July 30.
- Holder, Hat. P. J. Nagle. 1,728,249; Sept. 17.
- Holder, Hat. J. Rubin. 1,732,863; Oct. 22.
- Holder, Hat and garment. J. Dellinger. 1,700,823; Feb. 5.
- Holder, Headrest. W. A. Wilkins. 1,698,615; Jan. 8.
- Holder, Heel. J. F. Standish. 1,723,310; Aug. 6.
- Holder, Hose. W. E. Jones. 1,704,363; Mar. 5.
- Holder, Index. L. E. Hutchings. 1,733,305; Oct. 29.
- Holder, Instrument. W. Blocker. 1,718,996; July 2.
- Holder, Ironing-board-cover. M. C. Esmarian. 1,708,667; Apr. 9.
- Holder, Jacquard-card. E. P. Searing. 1,728,256; Sept. 17.
- Holder, Key. J. B. Miller. 1,704,137; Mar. 5.
- Holder, Key. H. Pecker. 1,715,565; June 4.
- Holder, Key. L. E. Rivas. 1,718,433; June 25.
- Holder, Key. L. L. Salfsberg. 1,730,246; Oct. 1.
- Holder, Key-ring. C. V. Johnson. 1,700,132; Jan. 29.
- Holder, Key-ring. G. Sfris. Re17,450; Oct. 1.
- Holder, Key-ring. G. Sfris. 1,698,028; Jan. 8.
- Holder, Knife-head. G. E. Vanderhoof. 1,739,336; Dec. 10.
- Holder, Label. O. D. Chancey. 1,711,170; Apr. 30.
- Holder, Lathe-center. W. R. Fisher. 1,700,837; Feb. 5.
- Holder, Lathe tool. C. W. McDaniel. 1,730,156; Oct. 1.
- Holder, Leaf. C. Pokora. 1,710,949; Apr. 30.
- Holder, License. L. E. Woolf. 1,699,730; Jan. 22.
- Holder, License. L. E. Woolf. 1,706,509; Mar. 26.
- Holder, License-plate. C. J. Everline. 1,733,119; Oct. 29.
- Holder, License-plate. T. H. Irving. 1,725,194; Aug. 20.
- Holder, License-plate. T. H. Lisby. 1,739,682; Dec. 17.
- Holder, License-plate. J. B. Peden. 1,701,419; Feb. 5.
- Holder, Line. A. Hofbauer. 1,705,523; Mar. 19.
- Holder, Lip-stick. M. C. Acker. Des. 80,211; Dec. 31.
- Holder, Lipstick. H. B. Grubb. Des. 78,886; July 2.
- Holder, Lipstick. H. A. Povel. 1,712,840; May 14.
- Holder, Light. C. Farrow. 1,728,532; Sept. 17.
- Holder, Loose-leaf. B. E. Lawrence. 1,711,894; May 7.
- Holder, Loose-leaf. B. E. Lawrence. 1,736,409; Nov. 19.
- Holder, Luggage. M. N. Freling. 1,720,073; July 9.
- Holder, Manifold-record. C. A. Taylor. 1,723,096; Aug. 6.
- Holder, Map. R. Keen. 1,699,436; Jan. 15.
- Holder, Map. C. D. Shaeffer. 1,714,639; May 28.
- Holder, Map. F. A. Squires. 1,730,790; Oct. 8.
- Holder, Map. W. O. Stout. 1,723,820; Aug. 6.
- Holder, Map. S. Tascarella. 1,710,555; Apr. 23.
- Holder, Match and cigarette. S. Danab. 1,720,589; July 9.
- Holder, Match-box. J. A. Dann. 1,733,182; Oct. 29.
- Holder, Match-package. R. N. Baylis. 1,737,139; Nov. 26.
- Holder, Material. K. E. Anderson. 1,721,142; July 16.
- Holder, Meat. J. O. Hunt. 1,727,979-80; Sept. 10.
- Holder, Milk. E. A. and R. E. Kaestner. 1,712,733; May 14.
- Holder, Milk-bottle. F. F. Allen. 1,713,415; May 14.
- Holder, Milk-bottle. T. Harding. 1,703,445; Feb. 26.
- Holder, Milk-bottle. J. Silva. 1,707,883; Apr. 2.
- Holder, Milk-card. W. E. Maon. 1,725,014; Aug. 20.
- Holder, Miner's battery. L. T. Yenerall. 1,713,413; May 14.
- Holder, Mixing-bowl. W. M. Hostetter. 1,740,401; Dec. 17.
- Holder, Mop. H. M. Erickson. 1,712,878; May 14.
- Holder, Mop. R. Ricks. 1,740,903; Dec. 24.
- Holder, Mop and brush. J. J. Dobil. 1,735,918; Nov. 19.
- Holder, Motor-vehicle license. A. Moorhouse. 1,708,702; Apr. 9.
- Holder, Music. G. E. Meyer. 1,699,982; Jan. 22.
- Holder, Nail. O. Breithaupt. 1,738,225; Dec. 3.
- Holder, Napkin. J. Kessel. 1,732,684; Oct. 2.
- Holder, Necktie. A. Audet. 1,737,632; Dec. 3.
- Holder, Necktie. L. E. Baer. Des. 78,374; Apr. 30.
- Holder, Necktie. L. E. Baer. 1,714,540; May 28.
- Holder, Necktie. B. Budai. 1,735,450; Nov. 12.
- Holder, Necktie. T. J. Dowd. 1,704,659; Mar. 5.
- Holder, Necktie. R. E. Jones. 1,707,860; Apr. 2.
- Holder, Necktie. H. N. Radis. 1,706,252; Mar. 19.
- Holder, Necktie. S. Soloff. 1,734,237; Nov. 5.
- Holder, Necktie. W. P. Webber. 1,706,012; Mar. 19.
- Holder, Necktie. G. S. Webber. 1,730,834; Oct. 8.
- Holder, Night-light and votive-light. M. Purcell. 1,741,337; Dec. 31.
- Holder, Notebook and copy. M. L. Reed. 1,720,607; July 9.
- Holder, Nozzle. C. D. Stevens. 1,714,329; May 21.
- Holder, Nursing-bottle. H. H. Ganson. 1,730,845; Oct. 8.
- Holder, Nursing-bottle. E. B. Hill. 1,741,937; Dec. 31.
- Holder, Nursing-bottle. J. Jeep. 1,736,346; Nov. 19.
- Holder, Nursing-bottle. B. F. Kauffman. 1,734,522; Nov. 5.
- Holder, Nursing-bottle. L. B. McAnaney. 1,737,468; Nov. 26.
- Holder or container, Lip-stick. M. D. Lindon. 1,710,583; Apr. 23.
- Holder or similar article, Candle. C. C. Beam. Des. 77,634; Feb. 5.
- Holder or similar article, Card. S. Behr. Des. 79,453; Sept. 24.
- Holder or similar article, Cigarette. M. Straus. Des. 78,544; May 14.
- Holder or similar article, Toilet-article. W. M. Buttrick and R. P. Piperoux. Des. 79,013; July 23.
- Holder or similar article, Toilet-article. W. M. Buttrick and R. P. Piperoux. Des. 79,015; July 23.
- Holder or support, Pipe. D. C. Cunneen. 1,709,808; Apr. 23.
- Holder, Pad. C. T. Raschick. 1,723,808; Aug. 6.
- Holder, Paintbrush. F. Frizl. 1,713,077; May 14.
- Holder, Paintbrush. A. W. Justice. 1,703,008; Feb. 19.
- Holder, Paper-currency. S. Altman. 1,741,270; Dec. 31.
- Holder, Paper-roll. J. Ruze. 1,722,766; July 30.
- Holder, Paper-towel. W. R. Johnston. 1,704,614; Mar. 5.
- Holder, Pen and pencil. C. C. Asche. 1,727,189; Sept. 3.
- Holder, Pen and pencil. Count R. Bowman. 1,722,453; July 30.
- Holder, Pen and pencil. A. M. Green. 1,713,380; May 14.
- Holder, Pen or pencil. E. C. Jefferson. 1,697,956; Jan. 8.
- Holder, Pencil. L. L. Lesiak. 1,730,774; Oct. 8.
- Holder, Pencil and pen. J. E. Balk. 1,707,792; Apr. 2.
- Holder, Pencil or like. G. S. M. Grimmer. 1,719,976; July 9.
- Holder, Perfume-bottle. P. A. Reutter. 1,698,510; Jan. 8.
- Holder, Periodical. M. J. Franey. 1,736,908; Nov. 26.
- Holder, Picker. W. A. Saatman. 1,737,616; Dec. 3.
- Holder, Pie. M. Linares. 1,723,551; Aug. 6.
- Holder, Pin. T. F. Boggs. 1,724,783; Aug. 13.
- Holder, Pipe. M. W. Carroll. 1,718,993; July 2.
- Holder, Pipe. L. M. Pearce. 1,708,322; Apr. 9.
- Holder, Plate. C. Bornmann. 1,711,444; Apr. 30.
- Holder, Plate-glass. C. Bleakley. 1,706,345; Mar. 19.
- Holder, Pocket article. J. Walton. 1,699,865; Jan. 22.
- Holder, Pocketbook. L. P. Boucher. 1,735,374; Nov. 12.
- Holder, Pot-lid. O. W. Potts. 1,722,394; July 30.
- Holder, Price-tag. W. S. Warfield, Jr. 1,730,959; Oct. 8.
- Holder, Price-ticket. F. Devins. 1,712,423; May 7.
- Holder, Price-ticket. F. Devins. 1,728,789; Sept. 17.
- Holder, Price-ticket. H. and L. Hopp. 1,698,547; Jan. 8.
- Holder, Radio tube. H. V. Rau. 1,704,515; Mar. 5.
- Holder, Razor-blade. J. R. Kinney. 1,711,569; May 7.
- Holder, Razor-blade. J. M. Kirkpatrick. 1,709,792; Apr. 16.
- Holder, Razor-blade. A. M. Nichol. 1,714,396; May 21.
- Holder, Razor-blade-stropping. E. Giglio. 1,728,604; Sept. 17.
- Holder, Receptacle. A. S. Greene. 1,739,588; Dec. 17.
- Holder, Record. J. B. Taylor and C. C. Hennessy. 1,715,016; May 23.
- Holder, Reed. J. T. Higgins. 1,706,063; Mar. 19.
- Holder, Rein-line. L. J. Dietrich. 1,713,692; May 21.
- Holder, Releasable drill. H. Sauveteur. 1,711,427; Apr. 30.
- Holder, Rivet. E. N. Ove. 1,737,266; Nov. 26.
- Holder, Road-map. E. I. Anderson. 1,717,954; June 18.
- Holder, Road-map. W. Winter. 1,728,649; Sept. 17.
- Holder, Rope. T. H. Furman. 1,719,656; July 2.
- Holder, Route-map. H. H. Webb. 1,714,650; May 28.
- Holder, Rubber-heel. K. H. Anderson. 1,705,215; Mar. 12.
- Holder, Sack. C. Granberg. 1,699,188; Jan. 15.
- Holder, Sack. J. F. Gunderson. 1,714,308; May 21.
- Holder, Safety automobile tag. C. J. Franks. 1,719,540; July 2.
- Holder, Safety bottle. C. A. Reeder. 1,714,048; May 21.
- Holder, Safety chain. M. Starmer. 1,719,029; July 2.
- Holder, Safety iron. R. Penner. 1,735,088; Nov. 12.
- Holder, Safety-pin. A. Hagel. 1,716,052; June 4.
- Holder, Safety-pin. H. E. Saher. Des. 77,916; Mar. 5.
- Holder, Safety-razor-blade. P. S. Clark. 1,713,890; May 21.
- Holder, Safety-razor-blade. H. J. Engel. 1,707,848; Apr. 2.
- Holder, Sales-check. C. A. Erickson. 1,702,727; Feb. 19.
- Holder, Sample. R. C. Greenwald and G. E. Thimmes. 1,730,439; Oct. 8.
- Holder, Sample-display. S. Stephanian. 1,730,439; Oct. 8.
- Holder, Sash. P. P. Brandenburg. 1,721,102; July 16.
- Holder, Sash. E. F. Chaffee. 1,701,140; Feb. 5.
- Holder, Sash. J. Galambos. 1,700,159; Jan. 29.
- Holder, Sash. S. M. Lerner. 1,732,479; Oct. 22.
- Holder, Sash. E. Snyder. 1,701,548; Feb. 12.
- Holder, Saw-blade. G. Zingeler. 1,716,941; June 11.
- Holder, Shade. L. C. Doane. 1,711,264; Apr. 30.
- Holder, Shade. L. C. Doane. 1,733,586; Oct. 29.
- Holder, Shade. W. A. Dunlap. 1,705,178; Mar. 12.
- Holder, Shade. A. K. Sutherland. 1,704,024; Mar. 5.
- Holder, Shade. A. K. Sutherland. 1,741,547; Dec. 31.
- Holder, Shade. F. Wening and G. E. Glatthar. 1,724,152; Aug. 13.
- Holder, Shade-bracket cord. J. C. Curtis and J. B. Cook. 1,707,599; Apr. 2.
- Holder, Sheet. P. A. Frazier. 1,734,618; Nov. 5.
- Holder, Sheet or card. G. P. Wigginton. 1,715,731; June 4.
- Holder, Sheet or card. G. P. Wigginton. 1,722,548; July 30.
- Holder, Shoe-buckle. F. F. Kohn. 1,727,650; Sept. 10.
- Holder, Shoe-heel. F. J. Kutscher. 1,724,355; Aug. 13.
- Holder, Sign. W. C. Bock. Des. 79,784; Nov. 5.
- Holder, Sign. H. J. Ginsberg. 1,705,564; Mar. 19.
- Holder, Sign and display. L. Jones. 1,715,602; June 4.
- Holder, Sign-cloth. W. E. Mobley. 1,710,429; Apr. 23.



- Holder, Signal-flag. H. W. Fahnestock. 1,722,842; July 30.
- Holder, Sliding-panel. E. J. Baumé. 1,704,357; Mar. 5.
- Holder, Spoon. V. Gymer. 1,700,200; Jan. 29.
- Holder, Spoon and fork. W. Haese. 1,717,556; June 18.
- Holder, Steam-gauge. A. Powell and R. White. 1,736,669; Nov. 19.
- Holder, Steel-wool. R. F. Boehler, jr. 1,703,259; Feb. 26.
- Holder, Steel-wool. H. Fitzpatrick. 1,719,467; July 2.
- Holder, Steel-wool-pad. R. F. Boehler, jr. 1,703,260; Feb. 26.
- Holder, Sterilizing toothbrush. J. L. Macshane. 1,708,423; Apr. 9.
- Holder, Storm-sash. L. Asper. 1,701,658; Feb. 12.
- Holder, Strop. M. S. Bentley. 1,735,723; Nov. 12.
- Holder, Surgical-needle. S. Sanders. 1,704,992; Mar. 12.
- Holder, Syringe piston. G. Langbein. 1,703,427; Feb. 26.
- Holder, Tap and die. O. A. Crosby. 1,740,887; Dec. 24.
- Holder, Thread. J. M. Payne and L. W. Hodge. 1,742,069; Dec. 31.
- Holder, Thread. J. M. Payne and L. W. Hodge. 1,740,200; Dec. 17.
- Holder, Ticket-marking. O. H. Pierce. 1,707,367; Apr. 2.
- Holder, Tie. J. Gompertz. 1,729,266; Sept. 24.
- Holder, Tire-display. W. I. Block. 1,735,372; Nov. 12.
- Holder, Toilet-roll. C. E. Beardsley. 1,721,200; July 16.
- Holder, Tool. C. W. Bennett. Re17,259; Apr. 9.
- Holder, Tool. E. Henriksen. 1,697,868; Jan. 8.
- Holder, Tool. E. Hunt. 1,713,230; May 14.
- Holder, Tool. J. Janda. 1,727,602; Sept. 10.
- Holder, Tool. J. S. Lipp. 1,736,449; Nov. 19.
- Holder, Tool. W. J. McConnell. 1,704,395; Mar. 5.
- Holder, Tool. F. P. Miller. 1,736,210; Nov. 19.
- Holder, Tool. D. E. Richardson. 1,723,985; Aug. 6.
- Holder, Toothbrush. M. L. Duskin and H. L. Magill. 1,710,725; Apr. 30.
- Holder, Toothbrush. E. Fromwiller. 1,713,379; May 14.
- Holder, Toothbrush. L. B. Rock. 1,711,327; Apr. 30.
- Holder, Toothbrush. H. M. Siegel. 1,735,512; Nov. 12.
- Holder, Toothbrush. A. G. Sulak. 1,716,842; June 11.
- Holder, Tooth-paste. H. W. Ansell. 1,699,939; Jan. 22.
- Holder, Toothpick. C. Domerude. 1,705,241; Mar. 12.
- Holder, Toothpick. H. Sherrill and F. Clingan. 1,700,519; Jan. 29.
- Holder, Toothpick. H. R. Shiffer. 1,720,297; July 9.
- Holder, Towel. A. F. Gillet. 1,727,200; Sept. 3.
- Holder, Transition angle-cock. F. K. Habenicht and F. H. Pietzsch. 1,716,521; June 11.
- Holder, Tree. L. J. Laroche. Des. 79,274; Aug. 20.
- Holder, Tree. F. J. Schulze. 1,732,284; Oct. 22.
- Holder, Tree. P. M. Wardell. 1,721,980; July 23.
- Holder, Tube. F. E. Tanner. 1,735,144; Nov. 12.
- Holder, Tumbler. C. W. Warner and T. M. Keefe. Des. 79,772; Oct. 29.
- Holder, Twine. H. Oakley and J. F. Newbery. 1,741,874; Dec. 31.
- Holder, Universal trap. C. H. Strupe. 1,703,069; Feb. 19.
- Holder, Vacuum-tube. A. A. Kent. 1,730,010; Oct. 1.
- Holder, Valve. E. Ducharme. 1,698,396; Jan. 8.
- Holder, Vase. C. S. Baron. 1,712,066; May 7.
- Holder, Vehicle shade. P. A. Bernhardt. 1,729,606; Oct. 1.
- Holder, Wall pot. I. G. Scott. Des. 79,213; Aug. 13.
- Holder, Wall pot. I. G. Scott and M. C. Fox. Des. 78,234; Apr. 9.
- Holder, Wardrobe. E. L. Munch. 1,726,627; Sept. 3.
- Holder, Water-pan. H. Wiemer. 1,698,355; Jan. 8.
- Holder, Welding electrode. R. B. Fehr. 1,721,296; July 16.
- Holder, Window-sash. E. F. Chaffee. 1,713,026; May 14.
- Holder, Window-sash. J. D. Murphy. 1,709,482; Apr. 16.
- Holder, Window-sash. W. F. Pierson. 1,704,869; Mar. 12.
- Holder, Window-shade. M. Keith. 1,703,344; Feb. 26.
- Holder with radial adjustments, Reaction brush. J. L. Brown. 1,730,913; Oct. 8.
- Holder with top lock, Tool. O. Severson. 1,734,502; Nov. 5.
- Holder, Work. K. F. Gallimore and R. M. Woytych. 1,740,542; Dec. 24.
- Holder, Work. L. T. Knowles. 1,723,356; Aug. 6.
- Holding device. G. H. Derbyshire. 1,737,151; Nov. 26.
- Holding and distributing apparatus. P. C. Burns. 1,719,966; July 9.
- Holding and transporting shoes and heels, Apparatus for. W. E. Coombes. 1,703,925; Mar. 5.
- Holding apparatus, Blank-. G. W. Sampson. 1,699,677; Jan. 22.
- Holding appliance for boring machines. W. S. Green. 1,697,276; Jan. 1.
- Holding children in seats, Device for. H. H. Clapp. 1,712,198; May 7.
- Holding clip, Hot-top-. A. R. Rowe. 1,738,209; Dec. 3.
- Holding device. W. A. Pungs. 1,696,973; Jan. 1.
- Holding device. Adjustable. F. M. Williamson. 1,737,397; Nov. 26.
- Holding device, Bedcover-. B. A. Moeller. 1,736,212; Nov. 19.
- Holding device, Collapsible. T. P. Little. 1,704,440; Mar. 5.
- Holding device for grounds. J. R. Massett. 1,711,538; May 7.
- Holding device for index and like cards. C. H. Ellis. 1,725,572; Aug. 20.
- Holding device for ironing-board covers. J. H. Dayton. 1,737,300; Nov. 26.
- Holding device, Implement-. M. E. Thatcher. 1,701,057; Feb. 5.
- Holding device, Multiple-string-. K. Milosewicz. 1,731,347; Oct. 15.
- Holding device, Utensil-. G. A. Olsen. 1,712,675; May 14.
- Holding device, Work-. W. R. Gorrell. 1,725,072; Aug. 20.
- Holding, handling, and displaying rolls of linoleum, carpets, cloth, paper, and the like, Apparatus for. H. Elliott. 1,701,361; Feb. 5.
- Holding means and kit for signaling apparatus for disabled vehicles. F. H. Tidnam and F. S. Partridge. 1,733,173; Oct. 29.
- Holding means for electric fixtures. A. L. Eustice. 1,727,368; Sept. 10.
- Holding means for vanity cases. W. G. Kendall. 1,734,860; Nov. 5.
- Holding milk, System or apparatus for. B. L. Hartz. 1,702,897; Feb. 19.
- Holding neckties, Means for. H. G. Huebner. 1,731,745; Oct. 15.
- Holding ring for compact plates. W. G. Kendall. 1,714,376; May 21.
- Holding ring for compact plates. W. G. Kendall. 1,734,859; Nov. 5.
- Holding thread-chasing dies while grinding. F. M. Singer. 1,703,017; Feb. 19.
- Holdup and holddown. C. H. Baldwin. 1,703,713; Feb. 26.
- Hole-finishing method and apparatus. B. A. Evans. 1,730,650; Oct. 8.
- Hollow article and making the same. T. E. Murray. 1,729,180; Sept. 24.
- Hollow articles by extrusion, Apparatus for making. G. R. Kinkad. 1,722,634; July 30.
- Hollow articles, Forming. G. Rosenquist. 1,723,659; Aug. 6.
- Hollow bodies, Method of and apparatus for creating abnormal pressure in and sealing. A. C. Badger. 1,728,171; Sept. 17.
- Hollow bodies, Method and apparatus for making. J. A. Carr. 1,710,919; Apr. 30.
- Hollow bodies of circular cross section having entrance openings, Method for the manufacturing of. J. Schmidt. 1,720,963; July 16.
- Hollow body, especially for airships. J. Schwengler. 1,710,195; Apr. 23.
- Hollow metallic articles, Making. F. C. Langenberg. 1,720,366; July 9.
- Hollow roll. G. Baehr. 1,739,939; Dec. 17.
- Hollow ware of silver or the like, Manufacturing. L. Weidlich, M. F. Tracy, and A. J. Flauder. 1,717,482; June 18.
- Homogeneous pure 2,3 and 2,5 dichloro-4-amino-1-methylbenzene, Preparing. W. Schumacher and C. Seib. 1,712,173; May 7.
- Homogenizing mill. W. Eppenbach. 1,738,288; Dec. 3.
- Hone box. J. O. Aske. 1,708,006; Apr. 9.
- Hone, Cylinder. F. E. Harter. 1,698,590; Jan. 8.
- Hone, Cylinder. N. Mikelson. 1,707,988; Apr. 9.
- Hone or grinder. V. J. Emery. 1,736,114; Nov. 19.
- Hone wheel. J. S. Johnson. 1,737,245; Nov. 26.
- Honey extractor. H. H. Root. 1,730,593; Oct. 8.
- Honing machine. A. M. Johnson. 1,732,560; Oct. 22.
- Hood. H. V. Henderson. Des. 80,226; Dec. 31.
- Hood and cowl, Combined. O. H. Clark. Des. 78,192; Apr. 9.
- Hood for automobiles and other vehicles. F. J. Leather. 1,697,014; Jan. 1.
- Hood for automobiles and other vehicles. F. J. Leather. 1,697,073; Jan. 1.
- Hood for automobiles and other vehicles. F. J. Leather. 1,725,961; Aug. 27.
- Hood for automobiles and other vehicles. F. J. Leather. 1,740,025; Dec. 17.
- Hood, Welder's. M. Stein. 1,730,390; Oct. 8.
- Hook; See—
- Box hook.
  - Bush hook.
  - Cargo hook.
  - Casing hook.
  - Chain hook.
  - Choker hook.
  - Clamp or grip hook.
  - Clinker hook.
  - Combination hook.
  - Crib hook.
  - Curtain hook.
  - Double bull hook.
  - Drapery hook.
  - Elevating hook.
  - Elevator hook.
  - End hook.
  - Hand hook.
  - Hat and coat hook.
  - Hoisting hook.
  - Key hook.
  - Logging hook.
  - Master handling hook.
  - Metal hook.
  - Pintle hook.
  - Positioning hook.
  - Safety hook.
  - Support hook.
  - Supporting hook.
  - Suspension hook.
  - Trace-chain hook.
  - Trip hook.
  - Tug hook.
  - Universal hook.
- Hook. D. Baker. 1,711,440; Apr. 30.
- Hook. L. Cot. 1,716,918; June 11.
- Hook. O. Finne. 1,723,416; Aug. 6.
- Hook-and-eye tape. D. Silberman. 1,725,107; Aug. 20.
- Hook and fly case, Snell. E. A. Porter. 1,715,567; June 4.
- Hook bars, Method of and apparatus for forming. J. J. Marshall. 1,736,715; Nov. 19.
- Hook device, Bull-. R. Banks. 1,734,610; Nov. 5.
- Hook for aircraft cargo-handling apparatus. M. Castro. 1,729,029; Sept. 24.
- Hook for handling oil-well casings and the like. B. S. Minor and J. J. Regan. 1,733,509; Oct. 29.



- Hook lock. D. Fortin. 1,715,192; May 28.  
 Hook lock, Coupling-. L. Walasky and P. Mrocka. 1,717,129; June 11.  
 Hook or link. H. O. Johnson. 1,725,195; Aug. 20.  
 Hook or similar article, Garment. C. W. Warner and T. M. Keefe. Des. 79,773; Oct. 29.  
 Hook or similar article, Towel. C. W. Warner and T. M. Keefe. Des. 79,774; Oct. 29.  
 Hook plates and hooks for temporary binders, Production of. C. D. Trussell. 1,736,808; Nov. 26.  
 Hook release, Endless-chain. V. Edler. 1,720,785; July 16.  
 Hook rule. A. W. Meyer. 1,739,485; Dec. 10.  
 Hook rule. E. J. Witchger. 1,700,245; Jan. 29.  
 Hoop: See—  
   Embroidery hoop. Train-order hoop.  
 Hoops, Making. W. A. Bowman. 1,703,866; Mar. 5.  
 Hopper and driving mechanism. F. R. White. 1,739,996; Dec. 17.  
 Hopper construction. F. B. Allen. 1,732,548; Oct. 22.  
 Hopper construction. F. B. Allen. 1,733,572; Oct. 29.  
 Hopper feed for furnaces. J. S. S. Fulton. 1,706,286; Mar. 19.  
 Hopper feeding device, Automatic. H. T. and E. J. Kingsbury. 1,718,565; June 25.  
 Hopper for filling machines. C. T. Small. 1,712,235; May 7.  
 Hopper for filling machines. C. T. Small. 1,724,113; Aug. 13.  
 Hopper for vending machines. M. J. Giltner. 1,729,287; Sept. 24.  
 Hopper gate. R. H. Beaumont. 1,716,337; June 4.  
 Hopper or pit. W. H. Towne. 1,730,704; July 16.  
 Horizontal bar. F. Treuner. 1,728,313; Sept. 17.  
 Horn. F. M. Ashley. 1,715,886; June 4.  
 Horn. H. M. Hurlbert. 1,722,220; July 23.  
 Horn. W. Sparks. 1,712,906; May 14.  
 Horn, Acoustic. M. Abrahams. 1,722,448; July 30.  
 Horn, Acoustic. H. B. Ely. 1,728,480; Sept. 17.  
 Horn and method of and apparatus for making the same, Acoustic. J. M. Stone. 1,735,476; Nov. 12.  
 Horn and/or tone box for talking machines, wireless loud speakers, and the like. W. Bennett. 1,700,193; Jan. 29.  
 Horn and sound chamber and sounding boards. G. F. Lindstrom. 1,715,849; June 4.  
 Horn bracket. F. E. Dorsey. 1,729,419; Sept. 24.  
 Horn-button switch. L. Blackmore. 1,734,004; Oct. 29.  
 Horn, Cuckoo. C. H. Keeley. 1,722,148; July 23.  
 Horn, Electric. W. B. Connolly. 1,729,281; Sept. 24.  
 Horn, Electric. R. M. Critchfield. 1,735,235; Nov. 12.  
 Horn, Electromagnetic. F. F. Dorsey. 1,729,284; Sept. 24.  
 Horn, Loud-speaker. G. H. Waters. 1,737,102; Nov. 26.  
 Horn, Multiple-inlet. C. R. Hanna. 1,715,703; June 4.  
 Horn mute, French-. C. A. Schumann. 1,737,098; Nov. 26.  
 Horn-reinforcing means. E. J. Gulick. 1,739,791; Dec. 17.  
 Horn suitable for use with radio sets, Acoustic reproducer. P. E. Edelman. 1,741,508; Dec. 31.  
 Horn, Tubular can-body. P. Kruse. 1,740,863; Dec. 24.  
 Horn, Tuned radial. M. R. Hutchison. 1,735,861; Nov. 19.  
 Horns, Manufacture of. L. Sykes and M. Zent. 1,733,247; Oct. 29.  
 Horse. F. Russell. 1,711,328; Apr. 30.  
 Horse collar. J. M. Connors. 1,734,796; Nov. 5.  
 Horse collar. G. R. Kelly. 1,730,215; Oct. 1.  
 Horsehair spinning and curling machine. H. Zimmermann. 1,710,600; Apr. 23.  
 Horsepower, Portable. P. F. Boyd. 1,736,389; Nov. 19.  
 Horseshoe. J. B. Austerman. 1,716,410; June 11.  
 Horseshoe. F. A. Primmer. 1,698,415; Jan. 8.  
 Horseshoe. R. R. Tweed. 1,702,882; Feb. 19.  
 Horseshoe. F. J. Wemett. 1,709,509; Apr. 16.  
 Horseshoe, Nonslipping. F. Carella. 1,704,653; Mar. 5.  
 Horseshoes, Antislipping attachment for. P. P. Snyder. 1,707,885; Apr. 2.  
 Horseshoes, Making. L. T. Page. 1,710,379; Apr. 23.  
 Horsemanship device. E. Kluck. 1,729,584; Sept. 24.  
 Hose. F. B. Williamson. 1,736,106; Nov. 19.  
 Hose and fitting. M. Loughhead. 1,725,286; Aug. 20.  
 Hose and supporter, Combination. F. Fereck. 1,741,512; Dec. 31.  
 Hose clamp. G. O. Blair. 1,705,895; Mar. 19.  
 Hose clamp. A. A. Ewald. 1,697,232; Jan. 1.  
 Hose clamp. F. W. Gunn. 1,700,043; Jan. 22.  
 Hose clamp. F. C. Johnson. 1,730,511; Oct. 8.  
 Hose clamp. C. P. Nelson. 1,735,932; Nov. 19.  
 Hose clamp. E. Osswald. 1,707,136; Mar. 26.  
 Hose connector, Separable. E. J. Ashley. 1,734,757; Nov. 5.  
 Hose connection. O. A. Christensen. 1,740,574; Dec. 24.  
 Hose connection. V. P. O'Connor. 1,737,941; Dec. 3.  
 Hose coupling. F. Van N. Eick. 1,739,131; Dec. 10.  
 Hose coupling. P. J. Hamilton and L. F. Meunier. 1,738,996; Dec. 10.  
 Hose coupling. H. Jennings. 1,699,591; Jan. 22.  
 Hose coupling. V. Karbowski. 1,698,195; Jan. 8.  
 Hose coupling. W. J. Lalonde. 1,736,923; Nov. 26.  
 Hose coupling. H. C. Pipher. 1,726,233; Aug. 27.  
 Hose coupling. W. L. Walker. 1,701,829; Feb. 12.  
 Hose coupling, Flexible. R. W. Lindsay. 1,735,326; Nov. 12.  
 Hose, Duplex. H. W. Protzeller. 1,718,978; July 2.  
 Hose, Elastic self-supporting. J. Mottur. 1,697,469; Jan. 1.  
 Hose, High-pressure. W. W. Hughes. 1,726,957; Sept. 3.  
 Hose, Method and apparatus for constructing nonexpandible. M. Loughhead and D. O. Scott. 1,721,253; July 16.  
 Hose rack. R. F. Brown. 1,702,071; Feb. 12.  
 Hose rack. R. C. Shand. 1,702,919; Feb. 19.  
 Hose reel. B. H. Montgomery. 1,726,084; Aug. 27.  
 Hose reel and protector, Automatic. A. Read. 1,740,748; Dec. 24.  
 Hose-repair device. E. H. Johnson. 1,721,864; July 23.  
 Hose-vulcanizing method and apparatus. E. Blaker. 1,730,639; Oct. 8.  
 Hosiery. E. J. Berger. Des. 78,722; June 11.  
 Hosiery. M. Buchsbaum. 1,728,924; Sept. 24.  
 Hosiery. R. Friedrich. Des. 78,620; May 28.  
 Hosiery. R. Friedrich. Des. 80,027; Dec. 3.  
 Hosiery. A. Gee. Des. 78,745; June 18.  
 Hosiery. S. A. Goldberg. Des. 78,350; Apr. 23.  
 Hosiery. A. M. Hahn. 1,715,323; May 28.  
 Hosiery. J. Mettler, J. Haas, and R. Evans. 1,722,639; July 30.  
 Hosiery. J. A. Struthers. Des. 78,848; June 25.  
 Hosiery. L. Weber, sr. Des. 78,320; Apr. 16.  
 Hosiery and making same. J. M. Allen. 1,731,330; Oct. 15.  
 Hosiery and making same. J. T. Hunter. 1,699,534; Jan. 22.  
 Hosiery box. A. W. Zerby. 1,728,385; Sept. 17.  
 Hosiery driers, Top-stripping mechanism for. H. F. Wanamaker. 1,711,334; Apr. 30.  
 Hosiery-drying apparatus. C. N. Harrington, H. T. May, and C. B. Maxfield. 1,740,942; Dec. 24.  
 Hosiery-finishing apparatus. L. Gray. 1,709,397; Apr. 9.  
 Hosiery-inspecting device. E. R. Ammon. 1,727,498; Sept. 10.  
 Hosiery inspection and display device. A. J. Brown. 1,698,388; Jan. 8.  
 Hosiery, Mechanism and method for producing seamless reinforced. F. E. Jones. 1,718,932; June 25.  
 Hosiery, Seamless. J. M. Allen. 1,733,852; Oct. 29.  
 Hosiery shield. B. W. Tanzy. 1,705,510; Mar. 19.  
 Hospital bag. N. G. Crozier. 1,698,085; Jan. 8.  
 Hospital pad, Sanitary. J. Mauser. 1,712,391; May 7.  
 Hot-air furnace. C. J. Blek. 1,731,997; Oct. 15.  
 Hot-air furnace. C. N. Cross and W. S. Ingram. 1,698,937; Jan. 15.  
 Hot-air furnace. J. J. Grefenstette. 1,712,699; May 14.  
 Hot-air furnace. C. Moench. 1,732,061; Oct. 15.  
 Hot-air furnace. W. O. Smith. 1,700,911; Feb. 5.  
 Hot-air furnace, Electric. J. Quern. 1,709,808; Apr. 16.  
 Hot-air furnace, Electric. G. J. Rohn and A. Pfau, jr. 1,701,012; Feb. 5.  
 Hot-air furnace, Gas-heated. G. F. Reznor. 1,720,239; July 9.  
 Hot-air furnace, Gas-heated. G. F. Reznor. 1,734,647; Nov. 5.  
 Hot-air heater. S. D. Rich. 1,707,096; Mar. 26.  
 Hotbed for rolling mills. R. R. Bolt. 1,738,953; Dec. 10.  
 Hot cap. W. R. Schindler. 1,701,797; Feb. 12.  
 Hot caps over seeds and plants, Device for placing. W. R. Schindler. 1,712,093; May 7.  
 Hot plate. F. F. Forshee. 1,697,175; Jan. 1.  
 Hot plate, Concentric. C. B. Backer. 1,705,702; Mar. 19.  
 Hot top. E. L. Messler and J. M. Guthrie. 1,738,600; Dec. 10.  
 Hot-top table. A. A. Span, O. A. Sunde and L. T. Sunde. 1,731,949; Oct. 15.  
 Hot top with integral brick lining. W. H. Ramage. 1,721,088; July 16.  
 Hot-water bottle or similar article. E. M. Goodwin. Des. 79,134; Aug. 6.  
 Hot-water heater. M. J. Lynch. 1,707,812; Apr. 2.  
 Hot-water table. C. Fiore. 1,734,667; Nov. 5.  
 House: See—  
   Amusement house. Toy house.  
   Camp house. Toy house.  
   Hog house.  
 House construction. D. Cauchaner. 1,703,060; Feb. 19.  
 House heater. J. S. Gullborg and C. S. Ongman. 1,706,879; Mar. 26.  
 Household appliance. H. Lomo. 1,706,795; Mar. 26.  
 Household bin. T. Ritsche. 1,716,242; June 4.  
 Household heater, Coal or wood burning. D. W. Binns. Des. 77,808; Feb. 26.  
 Household reminder. I. W. Livingston. 1,717,048; June 11.  
 Household utensil. C. M. Gibson. 1,713,275; May 14.  
 Household utility device. H. H. Hansen. 1,712,110; May 7.  
 House number, Illuminated. K. Beldin. 1,709,202; Apr. 16.  
 House number, Illuminated. P. J. Chiapetto. 1,739,709; Dec. 17.  
 House number, Illuminated. G. C. Zeller. 1,718,622; June 25.  
 House numbering and the like. W. D. Herwig. 1,727,234; Sept. 3.  
 Housing, Ball-bearing. A. O. Hurxthal. 1,706,232; Mar. 19.  
 Housing block, Sash-balance. E. W. Storms. 1,722,688; July 30.  
 Housing for electric heating elements. N. A. Morro. 1,711,423; Apr. 30.



- Housing for motor-heat indicators. H. H. Boyce. 1,739,284; Dec. 10.
- Housing for radioindicators or the like. H. J. Kasch. 1,718,741; June 25.
- Housing for taxi-call signal. M. C. Balder. Des. 79,174; Aug. 13.
- Hub cap. G. L. Hall. Des. 79,653; Oct. 22.
- Hub for mine-car wheels. W. D. Hockensmith. 1,718,045; June 18.
- Hull construction. H. K. Kloess. 1,737,886; Dec. 3.
- Hull for speed boats. F. S. Royer. 1,712,281; May 7.
- Hull for vessels, Nonsinkable. W. H. Owen. 1,729,120; Sept. 24.
- Huller: See—  
 Corn huller. Seed huller.
- Huller and opener. W. L. Hancock. 1,706,664; Mar. 26.
- Humidifier. R. J. Dever. 1,732,674; Oct. 22.
- Humidifier. F. A. Eustis. 1,737,008; Nov. 26.
- Humidifier. J. J. Gibney. 1,712,204; May 7.
- Humidifier. D. P. Gosline. 1,704,317; Mar. 5.
- Humidifier. G. C. Hoffmann. 1,704,289; Mar. 5.
- Humidifier. T. H. Ireland. 1,730,212; Oct. 1.
- Humidifier. H. G. Kelly. 1,725,005; Aug. 20.
- Humidifier. P. La Rouché. 1,740,897; Dec. 24.
- Humidifier. W. P. Lee. 1,732,055; Oct. 15.
- Humidifier. R. D. Matteson. 1,711,237; Apr. 30.
- Humidifier. H. T. Odean. 1,729,119; Sept. 24.
- Humidifier. E. J. P. Planert. 1,736,799; Nov. 26.
- Humidifier. J. Roemer. 1,713,193; May 14.
- Humidifier. H. E. and A. W. Smith. 1,706,903-4; Mar. 26.
- Humidifier. M. G. Steele. 1,719,569; July 2.
- Humidifier. A. Young. 1,722,877; July 30.
- Humidifier. Centrifugal. F. B. Comins. 1,726,213; Aug. 27.
- Humidifier for heating systems of automobiles. T. I. Allen. 1,697,843; Jan. 8.
- Humidifier for internal-combustion engines. G. A. Bartholomew. 1,702,858; Feb. 19.
- Humidifier for internal-combustion engines. F. H. Fritz. 1,711,408; Apr. 30.
- Humidifier for internal-combustion engines. F. L. Nash and J. E. Cox. 1,734,872; Nov. 5.
- Humidifier for radiator shields and enclosures. W. Sodemann. 1,716,470; June 11.
- Humidifiers, Automatic water-feed control for. E. A. Spaulding. 1,718,389; June 25.
- Humidifiers, Water-feed control for. E. A. Spaulding. 1,730,172; Oct. 1.
- Humidifying apparatus. C. H. Cochrane. 1,727,099; Sept. 3.
- Humidifying apparatus. P. A. Rose and C. E. Dunn. 1,718,182; June 18.
- Humidifying apparatus. I. C. Sternberg. 1,730,866; Oct. 8.
- Humidifying cottonseed meats. H. C. Graebe. 1,707,949; Apr. 2.
- Humidifying device. A. Ecureux. 1,713,377; May 14.
- Humidifying device for internal-combustion engines. J. A. Bell. 1,739,570; Dec. 17.
- Humidifying system. A. F. Karlson. 1,729,074; Sept. 24.
- Humidity regulator. W. E. Gaby. 1,725,071; Aug. 20.
- Humidor. B. F. Conner. 1,733,648; Oct. 29.
- Humidor. S. L. Judd. 1,727,291; Sept. 3.
- Humidor. W. Smith. 1,700,574; Jan. 29.
- Humidor. R. D. Zucker. 1,704,908; Mar. 12.
- Humidor, Dispensing. A. E. Lutfiring. 1,698,955; Jan. 15.
- Humidor for films. C. J. Lang. 1,726,573; Sept. 3.
- Humidor, Pop-corn. E. J. Le Claire. 1,713,539; May 21.
- Hump-yard interlocking. W. K. Howe. 1,706,851; Mar. 26.
- Hurdle for racetracks. G. R. Young. 1,717,135; June 11.
- Husking machine, Coconut. R. W. Titmas and R. S. Hickish. 1,724,739; Aug. 13.
- Husking machine, Grain. J. Schön. 1,731,871; Oct. 15.
- Hydrant and drinking fount, Combined fire. C. J. Lindmark. 1,715,714; June 4.
- Hydrant control, Automatic. E. O. Dickey. 1,699,182; Jan. 15.
- Hydrant, Fire. H. M. Lofton. 1,717,392; June 18.
- Hydrant wrench, Fire-. W. Chirpe. 1,705,470; Mar. 19.
- Hydrating crops in semiarid zones. A. Williams. 1,715,970; June 4.
- Hydrating phosphoric anhydride. E. Urbain. 1,698,484; Jan. 8.
- Hydration by pump pressure. J. A. De Cew. 1,704,533; Mar. 5.
- Hydraulic and other fluid pressure lifting jack. H. C. Miller and G. P. Sumner. 1,706,309; Mar. 19.
- Hydraulic apparatus. T. C. Pomeroy. 1,699,917; Jan. 22.
- Hydraulic brake. F. H. Gleason and L. F. Goodspeed. 1,726,484; Aug. 27.
- Hydraulic brake. W. G. Price. 1,710,032; Apr. 23.
- Hydraulic brake. N. Trbojevic. 1,696,985; Jan. 1.
- Hydraulic brake. H. L. F. Trebert. 1,712,316; May 7.
- Hydraulic clean-out device. H. W. Fisch. 1,734,206; Nov. 5.
- Hydraulic jack. H. W. Bolens. 1,709,000; Apr. 16.
- Hydraulic jack. J. H. Burkholder and G. A. Countryman. 1,723,131; Aug. 6.
- Hydraulic jack. G. A. Countryman. 1,715,901; June 4.
- Hydraulic jack. L. Levandowske. 1,699,897; Jan. 22.
- Hydraulic jack. A. J. McDonnell. Re17,270; Apr. 16.
- Hydraulic jack. T. W. Pedersen. 1,708,893; Apr. 9.
- Hydraulic jack. T. W. Pedersen. 1,725,720; Aug. 20.
- Hydraulic jack. H. C. Shevlin. 1,707,497; Apr. 2.
- Hydraulic jack. E. A. Stillman. 1,711,549; May 7.
- Hydraulic machine. V. E. Anderson. 1,706,372; Mar. 19.
- Hydraulic machine. E. H. Brown. 1,740,066; Dec. 17.
- Hydraulic machine. E. M. Burd. 1,699,497; Jan. 15.
- Hydraulic machine. W. H. Lieber. 1,706,359; Mar. 19.
- Hydraulic machine. L. F. Moody. 1,716,077; June 4.
- Hydraulic motor. F. Y. Harrison. 1,696,950; Jan. 1.
- Hydraulic pot press. P. Hänel. 1,736,262; Nov. 19.
- Hydraulic press. L. A. Barrett and J. P. Ferris. 1,700,363; Jan. 29.
- Hydraulic press. D. F. Broderick. 1,703,223; Feb. 26.
- Hydraulic press. G. Dale. 1,708,012; Apr. 9.
- Hydraulic press. D. H. W. Felch. 1,731,891; Oct. 15.
- Hydraulic press. O. Schlenstedt. 1,704,872; Mar. 12.
- Hydraulic press. T. F. Stacy. 1,709,921; Apr. 23.
- Hydraulic press, Automatic. L. C. Deoune. 1,724,184; Aug. 13.
- Hydraulic regulating apparatus. G. C. Taylor. 1,724,979; Aug. 20.
- Hydraulic separator. H. H. Carl and H. E. Muehlhof. 1,710,568; Apr. 23.
- Hydraulic tailstock. S. W. Bath. 1,704,852; Mar. 12.
- Hydraulic turbines and the like, Control system for. A. Pfau. 1,706,813; Mar. 26.
- Hydroaeroplane. A. Rohrbach. 1,699,991; Jan. 22.
- Hydrobicycle. J. M. Arroyo. 1,740,216; Dec. 17.
- Hydrocarbon burner. M. H. Braden. 1,735,629; Nov. 12.
- Hydrocarbon burner. J. L. Breeze, jr. 1,741,553; Dec. 31.
- Hydrocarbon compounds, Converting. M. W. Colony. 1,715,341; May 28.
- Hydrocarbon, Cracking. G. H. Taber, jr. 1,705,077; Mar. 12.
- Hydrocarbon fluids and solids for production of gases and liquids of lighter molecular weights, Apparatus and method for dissociating. I. W. Henry. 1,709,815; Apr. 16.
- Hydrocarbon fluids, Conversion or purification of. H. Rostin. 1,732,111; Oct. 15.
- Hydrocarbon motor. M. Tibbetts. 1,712,461; May 7.
- Hydrocarbon motor. J. G. Vincent. 1,699,725; Jan. 22.
- Hydrocarbon motor. J. G. Vincent. 1,708,711; Apr. 9.
- Hydrocarbon motor. L. M. Woolson. 1,712,463; May 7.
- Hydrocarbon-oil conversion. G. Egloff. 1,705,181; Mar. 12.
- Hydrocarbon oil, Process and apparatus for converting. G. Egloff. 1,707,349; Apr. 2.
- Hydrocarbon oils, Cracking of heavier. E. C. Herthel and H. L. Pelzer. 1,703,529; Feb. 26.
- Hydrocarbon products, Preparing. F. A. Howard. 1,727,303; Sept. 3.
- Hydrocarbon products, Preparing. J. Simpson. 1,718,713; June 25.
- Hydrocarbon vapors, Apparatus for condensing. T. E. Bell. 1,730,350; Oct. 8.
- Hydrocarbons and alcohols, Apparatus for producing synthetic. H. A. Webster. 1,711,913; May 7.
- Hydrocarbons and producing the same, Noncombustible chlorinated. F. S. Vivas. 1,733,843; Oct. 29.
- Hydrocarbons, Apparatus for converting. W. F. Sims. 1,703,550; Feb. 26.
- Hydrocarbons, Apparatus for the conversion of. L. C. Huff. 1,716,136; June 4.
- Hydrocarbons, Apparatus for the separation of. E. R. Cox and H. S. Cole, jr. 1,738,870; Dec. 10.
- Hydrocarbons, Cracking. J. E. Bell. 1,741,277; Dec. 31.
- Hydrocarbons, Cracking. J. E. Bell. 1,741,357; Dec. 31.
- Hydrocarbons, Cracking. E. C. Herthel and H. L. Pelzer. 1,703,528; Feb. 26.
- Hydrocarbons, Cracking. E. C. Herthel and H. L. Pelzer. 1,714,090; May 21.
- Hydrocarbons, Cracking. E. C. Herthel and H. L. Pelzer. 1,733,799; Oct. 29.
- Hydrocarbons, Cracking. E. W. Isom. 1,711,351; Apr. 30.
- Hydrocarbons, Cracking. T. Midgley, jr. 1,721,523; July 23.
- Hydrocarbons from oil shale, Production of. A. P. Vjerregaard. 1,732,219; Oct. 22.
- Hydrocarbons, Manufacture of oxidation products of. F. J. Carman. 1,697,105; Jan. 1.
- Hydrocarbons, Method and apparatus for converting. L. J. Walsh. 1,725,434; Aug. 20.
- Hydrocarbons, Obtaining gasoline. W. K. Lewis. 1,730,152; Oct. 1.
- Hydrocarbons of low boiling points from hydrocarbons of high boiling points, Obtaining. P. Danckwardt. 1,742,165; Dec. 31.
- Hydrocarbons, Preparing. F. A. Howard. 1,702,899; Feb. 19.
- Hydrocarbons, Process and apparatus for thermally decomposing. S. M. Norwood. 1,703,949; Mar. 5.
- Hydrocarbons, Process and apparatus for the vacuum distillation of. J. C. Black. 1,717,002; June 11.
- Hydrocarbons, Production of. A. Mittasch, C. Müller, L. Schlecht, and W. Schubardt. 1,698,602; Jan. 8.
- Hydrocarbons, Purification of. I. H. Derby and K. R. Davis. 1,727,052; Sept. 3.
- Hydrocarbons, Purification of aromatic. A. O. Jaeger. 1,741,305; Dec. 31.
- Hydrocarbons, Purification of crude aromatic. A. O. Jaeger. 1,729,543; Sept. 24.
- Hydrocarbons, Refining. F. A. Apgar. 1,735,988; Nov. 19.
- Hydrocarbons, Refining. J. C. Black and J. W. Weir. 1,709,518; Apr. 16.
- Hydrocarbons, Refining. T. D. Tift and A. C. Vobach. 1,736,022; Nov. 19.



- Hydrocarbons, Refining. A. C. Vobach. 1,736,234; Nov. 19.
- Hydrocarbons, Splitting. O. Schmidt, O. Grosskinsky, and G. Niemann. 1,732,381; Oct. 22.
- Hydrocarbons with simultaneous cracking of high-boiling into low-boiling hydrocarbons, Continuous distillation of. H. Wolf. 1,711,869; May 7.
- Hydrogen and carbon by thermal decomposition of hydrocarbons, Production of. A. W. Burwell. 1,717,354; June 18.
- Hydrogen from gaseous mixtures, Extraction of. G. Claude. 1,730,805; Oct. 8.
- Hydrogen from gaseous mixtures, Separating. G. F. Jaubert. 1,723,425; Aug. 6.
- Hydrogen peroxide, Concentration and distillation of solutions of. R. Wietzel, L. Schlecht, and O. Köhler. 1,738,625; Dec. 10.
- Hydrogen, Producing. J. S. Beekley. 1,711,036; Apr. 30.
- Hydrogen, Producing. F. C. Blake. 1,713,325; May 14.
- Hydrogen, Producing. R. Williams. 1,736,065; Nov. 19.
- Hydrogen sodium sulphide, Production of. H. P. Bassett. 1,722,170; July 23.
- Hydrogen sulphide, Production of. R. F. Bacon. 1,700,578; Jan. 29.
- Hydrogenated alkaloids, Manufacture of. J. W. Blagden. 1,720,462; July 9.
- Hydrogenating and cracking organization. M. J. Trumble. 1,725,320; Aug. 20.
- Hydrogenating and treating chemical materials. M. Hofäss. 1,711,499; May 7.
- Hydrogen-nitrogen mixtures, Production of. L. Casale. 1,716,813; June 11.
- Hydrometer. G. E. Anderson. 1,701,654; Feb. 12.
- Hydrometer. F. Badell. 1,732,961; Oct. 22.
- Hydrometer. E. L. Dennis. 1,701,404; Feb. 5.
- Hydrometer. F. C. and H. S. Jewell. 1,706,234; Mar. 19.
- Hydrometer. L. P. Larose. 1,730,221; Oct. 1.
- Hydroplane. C. S. Clifton. 1,720,167; July 9.
- Hydroplane. A. W. Kemp. 1,728,937; Sept. 24.
- Hydrostatic gauge. M. M. Titterington. 1,711,506; May 7.
- Hydrostatic gauge, Continuously-indicating. M. M. Titterington. 1,711,507; May 7.
- Hydrostatic press. O. Pabst and C. F. Seibert. 1,714,043; May 21.
- Hydrostep for fish streams. E. T. Grether. 1,730,005; Oct. 1.
- Hydroxybenzaldehydes, Manufacture of. F. H. Kranz. 1,715,417; June 4.
- Hygienic device. M. Huebsch. 1,731,665; Oct. 15.
- Hyposcopic pad and holder for confection jars. J. E. Sharp. 1,698,320; Jan. 8.
- Hypochlorite solutions, Composition for producing. M. C. Taylor. 1,716,014; June 4.
- Hypochlorites yielding hypochlorous acid, Production of solid stable. P. R. Hershman. 1,732,250; Oct. 22.
- Hypodermic instrument. E. H. Marcy. 1,728,260; Sept. 17.
- Ice and method, Refrigerant due. H. S. Mayall. 1,719,987; Jan. 8.
- Ice apparatus. W. Henning and F. Gadeke. 1,698,332; July 9.
- Ice, Apparatus for manufacturing artificial. W. F. Pharr. 1,727,556; Sept. 10.
- Ice, Apparatus for scoring. B. L. Fain and W. D. Crowell. 1,707,801; Apr. 2.
- Ice, Apparatus for scoring. R. T. Gray. 1,706,227; Mar. 19.
- Ice, Apparatus for use in the manufacture of. A. J. Bentley. 1,742,122; Dec. 31.
- Ice, Artificial. M. Eule. 1,713,596; May 21.
- Ice-box pan. M. J. Kelly. 1,699,396; Jan. 15.
- Ice by hydraulic and fluid pressure, Scoring. R. H. Roark. 1,731,175; Oct. 8.
- Ice cake and making the same, Separable. S. C. Bloom. 1,732,802; Oct. 22.
- Ice can. W. P. Willetts. 1,711,214; Apr. 30.
- Ice carrier. W. C. Wight. 1,735,098; Nov. 12.
- Ice conveyance. A. A. Rust. 1,728,081; Sept. 10.
- Ice cream and the like, Apparatus for manufacturing. C. W. Vogt. 1,733,740; Oct. 29.
- Ice-cream cone. J. L. Balton. Des. 80,066-7; Dec. 3.
- Ice-cream cone. E. Hamwi. Des. 79,589; Oct. 15.
- Ice-cream cone. J. Shapiro. Des. 77,625; Jan. 29.
- Ice-cream-cone-baking machine. L. Berzon. 1,708,930; Apr. 16.
- Ice-cream-cone coater. O. Lange. 1,729,170; Sept. 24.
- Ice-cream-cone machine. W. M. Roberts. 1,708,899; Apr. 9.
- Ice-cream-cone server, Refrigerated. G. J. Larrabee. 1,704,980; Mar. 12.
- Ice-cream cutting and measuring dispenser. J. G. Truesdell. 1,712,317; May 7.
- Ice-cream disher. J. W. Cox. 1,732,328; Oct. 22.
- Ice-cream disher. J. W. Cox. 1,732,502; Oct. 22.
- Ice-cream dispenser and the like, Mechanical. W. Brubaker. 1,704,784; Mar. 12.
- Ice-cream former. C. J. Hallett and J. W. Hose. 1,718,555; June 25.
- Ice-cream freezer. J. T. Henry. 1,710,578; Apr. 23.
- Ice-cream freezer. C. P. Hudson. 1,712,793; May 14.
- Ice-cream manufacturing and dispensing apparatus. W. F. Beatty. 1,709,516; Apr. 16.
- Ice-cream-manufacturing and soda-fountain apparatus. I. Cohen. 1,704,590; Mar. 5.
- Ice-cream mix, Making concentrated. D. W. Fisher. 1,699,526; Jan. 22.
- Ice-cream mold. A. E. Alchin. 1,728,778; Sept. 17.
- Ice-cream mold. C. B. Mills. 1,703,243; Feb. 26.
- Ice cream or the like, Manufacturing. C. W. Vogt. 1,742,171; Dec. 31.
- Ice-cream package. R. R. Kennedy. 1,731,578; Oct. 15.
- Ice-cream product and the product of said method, Manufacturing an. S. H. Berch. 1,708,252; Apr. 9.
- Ice-cream set or similar article. S. W. Farber. Des. 78,094; Mar. 26.
- Ice creeper. H. B. Chase. 1,728,783; Sept. 17.
- Ice cubes, Device for forming. D. H. Fry. 1,740,503; Dec. 24.
- Ice cubes, Device for producing. R. T. Brizzolara. 1,709,709-10; Apr. 16.
- Ice-cutting device. S. E. Kurtz. 1,736,538; Nov. 19.
- Ice-cutting machine. A. O. Goldstein. 1,741,053; Dec. 24.
- Ice-cutting machine. N. D. Schons. 1,731,872; Oct. 15.
- Ice-cutting machine. G. C. Wright. 1,709,422; Apr. 16.
- Ice cylinder, Block of. M. Böhre. 1,703,472; Feb. 26.
- Ice elevator. W. R. Ronemus. 1,716,979; June 11.
- Iceless jacket. R. C. Washburn. 1,727,530; Sept. 10.
- Ice machine, Continuous-operation absorption. W. M. Baxter. 1,708,998; Apr. 16.
- Ice-making apparatus. A. P. Dougherty. 1,708,085; Apr. 9.
- Ice rack. C. E. Hall. 1,724,921; Aug. 20.
- Ice retainer for water pitchers. F. Pelletier. 1,717,170; June 11.
- Ice-retaining clip. A. M. Lee. 1,702,014; Feb. 12.
- Ice-sawing machine. E. C. Wells. 1,734,888; Nov. 5.
- Ice-scoring machine. H. A. Edel. 1,707,847; Apr. 2.
- Ice-scoring machine. A. L. Jackson. 1,722,576; July 30.
- Ice shaver. K. R. Harmon. 1,738,825; Dec. 10.
- Ice shaving and cutting machine. S. Bert. 1,700,819; Feb. 5.
- Ice-shaving machine. S. Bert. 1,722,031; July 23.
- Ice tub. Glass. E. W. Heisey. Des. 78,024; Mar. 19.
- Identification device. J. Griesinger. 1,702,599; Feb. 19.
- Identification device, Book-. W. J. Wright. 1,698,663; Jan. 8.
- Identification device for automobiles. G. H. Holmes. 1,699,191; Jan. 15.
- Identification for motor vehicles, Monogram. J. R. Morgart. 1,709,680; Apr. 16.
- Identification key plate. C. Lorber. 1,711,736; May 7.
- Identification of skeins in dyeing, etc. R. Reynolds. 1,705,207; Mar. 12.
- Identification panel. J. H. Depler. 1,704,534; Mar. 5.
- Identification plate frame. P. J. Kent. 1,739,971; Dec. 17.
- Identification plates, Making. W. H. Wheeler. 1,722,778; July 30.
- Identification tag. J. P. Bietsch. 1,727,806; Sept. 10.
- Identification tag. G. S. Webber. 1,713,153; May 14.
- Identification tag for key rings. R. E. Goldworthy. 1,714,421; May 21.
- Identifying appliance. C. S. Railsback. 1,709,321; Apr. 16.
- Identifying articles, Device for. J. Busco. 1,723,011; Aug. 6.
- Identifying device, Automobile. S. K. Wood. 1,711,191; Apr. 30.
- Identifying light, Truck and bus. H. T. Ackerman. 1,737,398; Nov. 26.
- Identifying persons, applicable to slot and registering machines, System for. R. A. Cardoso, A. S. Merlan, and J. C. Mir. 1,721,371; July 16.
- Identifying precious stones. F. Heitzler. 1,700,496; Jan. 29.
- Identifying precious stones, Apparatus for use in. F. Heitzler. 1,700,497; Jan. 29.
- Igniter, Electric. W. J. Robb. 1,704,763; Mar. 12.
- Igniter, Electric incandescent. K. Schaffler, rekte Glössl. 1,736,398; Nov. 19.
- Igniter for censer fuel blocks, Electrical. R. A. Gallery. 1,710,615; Apr. 23.
- Igniter for sintering machine. R. W. Hyde. 1,719,114; July 2.
- Igniter, Gas. L. Jungmann. 1,702,653; Feb. 19.
- Igniter, Pocket. H. M. Ballou. Des. 78,077; Mar. 26.
- Igniting apparatus for burners. G. H. Hart. 1,724,132; Aug. 13.
- Igniting device for cigarette-dispensing containers. A. Girtanner. 1,711,936; May 7.
- Igniting device for smudge pots. J. A. Ulmer. 1,701,133; Feb. 5.
- Igniting mixture for tracer compositions. L. Hendler. 1,708,174; Apr. 9.
- Igniting the bursting charge of projectiles. N. E. Methlin. 1,706,802; Mar. 26.
- Igniting tip for cigars and cigarettes. J. E. Anchondo. 1,719,794; July 2.
- Ignition and steering-wheel lock, Coincidental. O. J. Kuepfer. 1,714,426; May 21.
- Ignition apparatus. W. A. Chryst. 1,720,540; July 9.
- Ignition apparatus. H. C. Hubbell. 1,708,095; Apr. 9.
- Ignition apparatus for internal-combustion engines. F. H. Royce. 1,701,697; Feb. 12.
- Ignition apparatus for internal-combustion engines, Electric. F. C. Perrem. 1,715,566; June 4.
- Ignition arch. B. Dobie. 1,712,071; May 7.
- Ignition burner. T. G. Coglian. 1,733,647; Oct. 29.
- Ignition circuits of motor vehicles inoperative, Device for rendering. E. V. Penfold. 1,713,191; May 14.



- Ignition coil. R. I. Bates. 1,708,211; Apr. 9.  
 Ignition coil. C. H. Kindl. 1,713,183; May 14.  
 Ignition-coil lock. H. G. Webster. 1,731,993; Oct. 15.  
 Ignition control, Automatic. W. T. Vanvactor. 1,699,640; Jan. 22.  
 Ignition device. V. W. Thomas. 1,721,720; July 23.  
 Ignition device. R. Vreeland and J. F. Leahy. 1,700,603; Jan. 29.  
 Ignition device. L. R. Wilder. 1,727,848; Sept. 10.  
 Ignition device, Electrical. W. B. Churcher. 1,702,108; Feb. 12.  
 Ignition device for air compressors. R. P. Pescara. 1,732,694; Oct. 22.  
 Ignition device for fuel-supply devices. S. G. Miller. 1,736,126; Nov. 19.  
 Ignition device for gas burners. C. E. Methudy. 1,705,777; Mar. 19.  
 Ignition device for gas burners. C. E. Methudy. 1,739,851; Dec. 17.  
 Ignition device for internal-combustion engines. V. G. Wagner. 1,700,554; Jan. 29.  
 Ignition-governing apparatus. A. A. Kent. 1,725,522; Aug. 20.  
 Ignition lock, Combination. E. V. Larson. 1,725,086; Aug. 20.  
 Ignition mechanism. J. N. Macrae. 1,734,299; Nov. 5.  
 Ignition, Oil. O. A. Fogarty. 1,724,400; Aug. 13.  
 Ignition plug. H. J. Linse. 1,713,843; May 21.  
 Ignition shield for automobiles, Motor. W. J. Morrissey. 1,711,961; May 7.  
 Ignition switch. J. A. Forsberg. 1,719,049; July 2.  
 Ignition switch, Automatic. W. A. Clarke, jr. 1,728,592; Sept. 17.  
 Ignition switch for explosive engines, Oil-pressure-control. S. G. Alex. 1,700,783; Feb. 5.  
 Ignition system. E. F. W. Alexanderson. 1,723,908; Aug. 6.  
 Ignition system. M. Mallory. 1,716,895; June 11.  
 Ignition system. R. Varley. 1,720,937; July 16.  
 Ignition system. T. W. Varley. 1,725,432; Aug. 20.  
 Ignition tester gauge. G. Zitzmann. 1,735,593; Nov. 12.  
 Ignition-testing device. W. K. Hack. 1,736,004; Nov. 19.  
 Ignition timer. W. A. Chryst. 1,733,940-3; Oct. 29.  
 Ignition timer. G. M. Cusick. 1,697,522; Jan. 1.  
 Ignition-timer wiring assembly. N. B. Parsons, J. E. Woodruff, and F. A. Tibbals. 1,719,022; July 2.  
 Ignition timers, Synchronizing device for. J. T. Fitzsimmons and W. D. Shrope. 1,697,908-9; Jan. 8.  
 Illuminant, Variable. G. M. Wright and R. N. Vyvyan. 1,737,288; Nov. 26.  
 Illuminated display. L. O. Glatzner. 1,701,205; Feb. 5.  
 Illuminated dry-cleaning board. J. Verduce. 1,728,458; Sept. 17.  
 Illuminated fountain. M. H. Stuewe. 1,728,456; Sept. 17.  
 Illuminated star. L. A. Becker. 1,703,072; Feb. 19.  
 Illuminating apparatus. C. H. Kelsea. 1,712,217; May 7.  
 Illuminating apparatus and process. F. Short. 1,733,915; Oct. 29.  
 Illuminating apparatus, Street-. W. Bauersfeld. 1,707,038; Mar. 26.  
 Illuminating device. H. H. Boyce. 1,705,604; Mar. 19.  
 Illuminating device. H. H. Boyce. 1,712,289; May 7.  
 Illuminating device. N. J. Glass. 1,705,813; Mar. 19.  
 Illuminating device. M. Kirschstein. 1,728,938; Sept. 24.  
 Illuminating device. T. O. Moore. 1,707,171; Mar. 26.  
 Illuminating device. M. H. Shoenberg and L. Schon. 1,730,632; Oct. 8.  
 Illuminating device. C. W. Wyman. 1,730,836; Oct. 8.  
 Illuminating device, Decorative. L. Propp. 1,707,539; Apr. 2.  
 Illuminating device for microscopes. A. Köhler. 1,699,667; Jan. 22.  
 Illuminating device, Shift-lever handle-. E. A. Saurman. 1,705,069; Mar. 12.  
 Illuminating-gas and water-gas apparatus. H. Koppers. 1,723,279; Aug. 6.  
 Illuminating indicia and the like. A. Dorsey. 1,698,839; Jan. 15.  
 Illuminating means. F. Hamilton. 1,740,588; Dec. 24.  
 Illuminating means for photographic cabinets. J. Parcell. 1,736,012; Nov. 19.  
 Illuminating means for scale indicators. W. Rienks. 1,725,966; Aug. 20.  
 Illuminating signal. P. P. Horni. 1,719,977; July 9.  
 Illuminating structure. L. M. Riddle. 1,712,583; May 14.  
 Illuminating system. F. Short. 1,734,022; Oct. 29.  
 Illuminating unit. H. P. Hollnagel. 1,706,161; Mar. 19.  
 Illumination effects, Producing. F. J. and W. L. Kaehni. 1,717,785; June 18.  
 Illumination of lens cells, Spot. C. F. Jenkins. 1,739,812; Dec. 10.  
 Illumination of sewing machines or the like, Electric. H. M. Stephenson. 1,701,344; Feb. 5.  
 Illumination, Street. P. S. Millar. 1,738,383; Dec. 3.  
 Illusion device. W. H. Chandlee. 1,699,345; Jan. 15.  
 Image-drum arrangement for the transmission of images. A. Abild, A. Jipp, O. Steiner, and F. Tüczek. 1,723,641; Aug. 6.  
 Image glass or finder for cameras, Wide-angle. A. F. Shore. 1,716,668; June 11.  
 Image producer. E. P. Burkard. 1,697,382; Jan. 1.  
 Image-projecting strip and producing same. A. Makart. 1,709,318; Apr. 16.  
 Imitation marble, Method of and apparatus for manufacturing. G. E. Kendall. 1,701,619; Feb. 12.  
 Immersion heater. L. P. Hynes. 1,703,532; Feb. 26.  
 Immersion heater. J. C. Woodson. 1,709,645; Apr. 16.  
 Immunizing product and producing the same. N. S. Ferry. 1,717,198; June 11.  
 Impact section for a vehicle bumper. H. S. Jandus and N. Van Husen. Des. 78,893; June 4.  
 Impedance measurements, Determination of delay by. D. K. Gannett. 1,725,756; Aug. 27.  
 Impeller for blowers. M. Bender. 1,700,017; Jan. 22.  
 Impeller for vibrators. B. A. Mitchell. 1,719,122; July 2.  
 Impeller for vibrators for crushers, etc. B. A. Mitchell. 1,719,123; July 2.  
 Implement, Agricultural. H. E. Altgelt. 1,738,510; Dec. 10.  
 Implement, Combination. M. Sapo. 1,712,405; May 7.  
 Implement displaying and storing device. C. M. Mendelsohn. 1,732,764; Oct. 22.  
 Implement for locking printing strips. C. Chisholm. 1,720,318; July 9.  
 Implement for supplying heat to the human body. R. Blum. 1,703,811; Feb. 26.  
 Implement, Liquid-applying. M. J. D'Amore. 1,738,471; Dec. 3.  
 Implement or pattern, Painter's. O. Stein. 1,725,941; Aug. 27.  
 Implement, Toothed. D. H. Young. 1,740,557; Dec. 24.  
 Impregnating articles with synthetic resins. Q. A. L. Texter. 1,729,056-7; Sept. 24.  
 Impregnating composition board. G. Klinkenstein and G. D. Magnus. 1,705,090; Mar. 12.  
 Impregnating fabric. J. A. Heany. 1,712,002; May 7.  
 Impregnating felt and the like, Apparatus and process for. H. C. Koch. 1,712,770; May 14.  
 Impregnating felt or other fabrics. K. H. Schutte. 1,736,633; Nov. 19.  
 Impregnating fibrous materials with liquids, Method of and apparatus for. E. S. Pearce. 1,723,747; Aug. 6.  
 Impregnating paper for bag tubes. A. Holter. 1,714,222; May 21.  
 Impregnating paper tubes or other porous articles, Method and apparatus for. N. Marshall. 1,711,643; May 7.  
 Impregnating running water with detergents. S. M. Halstead and A. I. Wickland. 1,720,326; July 9.  
 Impregnating with a compound, Method of. C. F. Coleman. 1,711,774; May 7.  
 Impregnating wood. H. P. Vannah and J. G. Gosselink. 1,714,701; May 28.  
 Impregnating wood with rubber. J. R. Coolidge. 3d. 1,733,483; Oct. 29.  
 Impregnation and drying apparatus. H. M. Eaton. 1,723,336; Aug. 6.  
 Imprinting. C. E. Lincoln. 1,725,534; Aug. 20.  
 Improving the adhesion of vehicle wheels to rails. J. W. Peterson and T. C. Turner. 1,730,944; Oct. 8.  
 Impulse sending device. H. F. Obergfell. 1,708,951; Apr. 16.  
 Impulse-sending machine. F. L. Fisher and H. M. Friendly. 1,714,302; May 21.  
 Impurities and dissolved matter in water and other fluids, Apparatus for the detection and estimation of. C. E. Perry. 1,734,342; Nov. 5.  
 Incased heater. J. C. Woodson. 1,705,696; Mar. 19.  
 Incinerator. F. J. Carlson. 1,737,638; Dec. 3.  
 Incinerator. H. Coe. 1,700,560; Jan. 29.  
 Incinerator. W. C. Epstein. 1,697,524; Jan. 1.  
 Incinerator. A. M. Goldsmith. 1,725,909; Aug. 27.  
 Incinerator. E. H. Graver. 1,724,574-5; Aug. 13.  
 Incinerator. L. O. Haber. 1,699,531; Jan. 22.  
 Incinerator. E. B. Kay. 1,700,500; Jan. 29.  
 Incinerator. G. E. Ruhmann. 1,732,988; Oct. 22.  
 Incinerator. A. A. Schuetz. 1,715,954; June 4.  
 Incinerator and fuel economizer, Combined. H. G. Bullock. 1,736,963; Nov. 26.  
 Incinerator-charging opening. E. M. Jones. 1,720,478; July 9.  
 Incinerator construction and hopper door therefor, Refuse-. H. H. Heybeck. 1,733,801; Oct. 29.  
 Incinerator for garbage and the like. W. C. Epstein. Re-17,197; Jan. 15.  
 Incinerator, Garbage or refuse. W. F. Drew. 1,714,005; May 21.  
 Incinerator hopper and seal. H. H. Heybeck. 1,707,011; Mar. 26.  
 Incinerator with interconnected door control, Slab. F. J. Weber. 1,721,936; July 23.  
 Incinerators, Charging for apparatus for. G. F. Lenk. 1,740,610; Dec. 24.  
 Inclination indicator. H. A. Borresen. 1,726,643; Sept. 3.  
 Inclination indicator. E. Koppel. 1,738,589; Dec. 10.  
 Inclinometer, Gyroscopically-stabilized. H. A. Borresen. 1,733,109; Oct. 29.  
 Inclosed fused switch. J. Sachs. 1,721,493-7; July 16.  
 Inclosed switch. C. E. Hanny. 1,738,049; Dec. 3.  
 Inclosed switch. O. S. Jennings. 1,709,668; Apr. 16.  
 Inclosed switch. H. W. Neal. 1,726,676; Sept. 3.  
 Inclosed switch. F. T. Wheeler. 1,705,080; Mar. 12.  
 Inclosure. M. T. Ashe. 1,698,252; Jan. 8.  
 Inclosure and handle, Automobile winter. J. W. Osten. 1,734,339; Nov. 5.  
 Inclosure for chairs, beds, and the like for taking sun baths. W. Rittenhouse and W. H. Sweetland. 1,733,756; Oct. 29.  
 Increasing the yield in civetone starting from civet. L. Ruzicka. 1,720,748; July 16.



- Incrustation and corrosion on metallic surfaces, Apparatus for the prevention of. F. Hauptvogel. 1,726,738; Sept. 3.
- Incrustation in steam boilers, Apparatus for preventing. J. Kobseff. 1,739,640; Dec. 17.
- Incrustation preventive. J. H. Oberholtzer. 1,720,565; July 9.
- Incubator. C. Y. Hake. 1,725,634; Aug. 20.
- Incubator. L. Hawkins. 1,738,368; Dec. 3.
- Incubator. W. F. Hillpot. 1,722,214; July 23.
- Incubator. W. F. Hillpot. 1,732,891; Oct. 22.
- Incubator. F. W. Johnson. 1,720,600; July 9.
- Incubator. I. M. Petersime. 1,723,806; Aug. 6.
- Incubator. J. L. Robbins. 1,728,980; Sept. 24.
- Incubator. J. L. Robbins. 1,732,280; Oct. 22.
- Incubator. T. K. Tiffany. 1,722,973; July 30.
- Incubator. T. K. Tiffany. 1,740,433; Dec. 17.
- Incubator. F. M. Wilson. 1,720,253; July 9.
- Incubator alarm. E. G. Farson. 1,719,655; July 2.
- Incubator and hatcher. F. H. McCoy. 1,740,741; Dec. 24.
- Incubator and method of hatching chickens. H. M. Shilstone. 1,721,795; July 23.
- Incubator heater. R. S. Bartlett, C. D. Harrison, and P. D. Lindsey. 1,719,527; July 2.
- Incubator heater. W. D. Harvey. 1,735,246; Nov. 12.
- Incubator lamp box. R. G. Miller. 1,719,283; July 2.
- Incubator, Multiple-deck. P. S. Martin. 1,708,449; Apr. 9.
- Incubator tray and egg-turning slide. F. E. Coatsworth. 1,708,356; Apr. 9.
- Incubator trays, Egg turner for. J. C. Bohmker. 1,738,685; Dec. 10.
- Incubators, Egg-turning means for. J. F. MacKay. 1,740,516; Dec. 24.
- Indanthrone compound and making same. M. S. Thompson. 1,731,800; Oct. 15.
- Indelible imprints on sheet material, Making. G. Kirkegaard. 1,716,699; June 11.
- Indenting apparatus. E. P. Kerruish. 1,707,400; Apr. 2.
- Indenting machine. A. Eppler. 1,719,880; July 9.
- Index. H. H. Rabbes. 1,731,108; Oct. 8.
- Index. J. H. Rand. 1,722,593; July 30.
- Index. R. C. and J. C. Russell. 1,741,586; Dec. 31.
- Index and file, Card. M. McDonald. 1,735,581; Nov. 12.
- Index and toy, Mechanical. R. C. Wigand. 1,700,461; Jan. 29.
- Index apparatus. G. P. Wigginton. 1,719,412; July 2.
- Index, Card. E. L. Bosworth. 1,703,610; Feb. 26.
- Index card. G. H. Dawson. 1,700,822; Feb. 5.
- Index, Card. J. L. Gable. 1,722,138; July 23.
- Index, Card. L. E. Hutchings. 1,733,304; Oct. 29.
- Index, Card. B. G. Rand. 1,726,857; Sept. 3.
- Index, Card. H. Tockhorn. 1,727,453; Sept. 10.
- Index card, Reinforced. G. H. Dawson. 1,697,523; Jan. 1.
- Index device. W. A. Hardy. 1,704,892; Mar. 12.
- Index device. J. H. Rand. 1,740,118; Dec. 17.
- Index device, Visible. R. M. Van Valkenburgh. 1,710,493; Apr. 23.
- Index file, Card. F. V. Shotwell. Des. 77,988; Mar. 12.
- Index file, Visible card-. L. Lombardini. 1,742,087; Dec. 31.
- Index for filing appliances. W. E. Dunning. 1,736,395; Nov. 19.
- Index leaf. J. L. McMillan. 1,736,165; Nov. 19.
- Index or file. W. H. Day. 1,725,855; Aug. 27.
- Index or file. W. H. Day and C. R. Thomas. 1,697,349; Jan. 1.
- Index or file. W. H. Day and C. R. Thomas. 1,725,754; Aug. 27.
- Index or file. A. E. Hunt. 1,733,303; Oct. 29.
- Index or file. A. E. Hunt. 1,741,303; Dec. 31.
- Index or file card stop. W. H. Day and C. R. Thomas. 1,722,563; July 30.
- Index or order sheet and pad. B. Rosenthal. 1,718,706; June 25.
- Index signal. T. B. Clark. 1,732,928; Oct. 22.
- Index, Stepped-sheet binder. H. J. Mahrer. 1,738,306; Dec. 3.
- Index system, Card-. E. W. Davis. 1,721,248; July 16.
- Index tab. G. H. Dawson. 1,700,821; Feb. 5.
- Index tab. G. W. Schaefer. 1,735,214; Nov. 12.
- Index, Telephone. C. G. Johnson. 1,731,422; Oct. 15.
- Index, Visible. F. H. Johnston. 1,698,406; Jan. 8.
- Index, Visible. F. D. Powell. 1,706,984; Mar. 26.
- Index, Visible. W. A. Ringler. 1,705,268; Mar. 12.
- Index, Visible. W. A. Ringler. 1,731,543; Oct. 15.
- Index, Visible card. R. Campbell. 1,719,358; July 2.
- Index, Visible card. J. L. Garfield. 1,698,329; Jan. 8.
- Index, Visible card. J. L. Garfield. 1,698,586; Jan. 8.
- Index, Visible card. R. W. Wood. 1,729,908; Oct. 1.
- Indexes or the like, Making. W. H. Day. 1,712,200; May 7.
- Indexing device, Card. D. A. Nevin. 1,739,168; Dec. 10.
- Indexing mechanism. R. S. Drummond. 1,720,887; July 16.
- Indexing mechanism for metal-working machines. R. S. Brown. 1,703,986; Mar. 5.
- Indexing mechanism, Pressure-fluid-actuating. A. L. De Leeuw. 1,710,865; Apr. 30.
- Indicating and controlling method and mechanism for paper-making machines and the like. A. Allen. 1,708,074; Apr. 9.
- Indicating and counting mechanism with compensator. J. M. Dayton. 1,701,445; Feb. 5.
- Indicating and determining the point of entrance of fluids in bore holes, Apparatus for. W. Meindersma. 1,700,642; Jan. 29.
- Indicating and regulating apparatus. F. S. Kochendorfer. 1,713,833; May 21.
- Indicating and synchronizing the velocities of two elements. C. G. Clinch, N. Rigabar, and C. R. Gibbs. 1,701,495; Feb. 12.
- Indicating apparatus. J. S. Moranor. 1,733,817; Oct. 29.
- Indicating apparatus for locomotive back pressure. E. S. Pearce and E. C. Karibo. 1,737,199; Nov. 26.
- Indicating apparent energy consumption, Device for. R. Pudelko. 1,736,090; Nov. 19.
- Indicating at a distance the amplitude of movements in alternative directions. H. Dreyer. 1,720,036; July 9.
- Indicating change in fluid temperature. N. Christiansen. 1,719,046; July 2.
- Indicating demand flow meter. M. H. Pittman. 1,727,442; Sept. 10.
- Indicating device. T. Booth. 1,706,519; Mar. 26.
- Indicating device. F. H. Buckingham. 1,701,028; Feb. 5.
- Indicating device. H. S. Cahen. 1,711,632; May 7.
- Indicating device. C. S. Johnson. 1,712,767; May 14.
- Indicating device. M. Knight. 1,728,554; Sept. 17.
- Indicating device. R. H. Langley. 1,701,377; Feb. 5.
- Indicating device. R. H. Langley. 1,731,141; Oct. 8.
- Indicating device. J. J. Liss. 1,718,967; July 2.
- Indicating device. O. C. Reeves. 1,706,965; Mar. 26.
- Indicating device. H. Schlaich. 1,704,488; Mar. 5.
- Indicating device. L. C. Wetzel. 1,732,177; Oct. 15.
- Indicating device, Changeable. A. P. Marshall and J. Chesnut, jr. 1,717,718; June 18.
- Indicating device for playing cards. S. F. Williamson. 1,698,776; Jan. 15.
- Indicating device for radio receiving apparatus. L. L. Driggs, jr. 1,699,283; Jan. 15.
- Indicating device for small arms, Aim-. J. W. F. Lamont. 1,699,595; Jan. 22.
- Indicating empty seats in theaters. J. A. Dienelt. 1,728,110; Sept. 10.
- Indicating instrument. H. H. Boyce. 1,713,518; May 21.
- Indicating instrument. J. Zubaty and A. Champion. 1,713,860; May 21.
- Indicating instrument, Volt-ampere-. W. H. Pratt. 1,698,276; Jan. 8.
- Indicating instruments, Manufacture of. O. Sieper. 1,700,242; Jan. 29.
- Indicating means for compass cards. W. Otto. 1,711,124; Apr. 30.
- Indicating mechanism for fabric-measuring machines, Length-. J. L. Wheeler. 1,705,164; Mar. 12.
- Indicating mechanism for typewriters. J. G. Maza. 1,716,926; June 11.
- Indicating quantities required for the correct operation of continuous processes. G. W. Bost. 1,729,500; Sept. 24.
- Indicating small changes of capacity, Device for. R. Gunn. 1,701,975; Feb. 12.
- Indicating system. J. C. Field. 1,709,067; Apr. 16.
- Indicating system for light signals. C. W. Prescott. 1,733,977; Oct. 29.
- Indicating system for refrigerators. F. J. Schroeder. 1,703,068; Feb. 19.
- Indicating system, Frequency-. J. C. Gabriel. 1,722,084; July 23.
- Indicating temperature conditions, Device for. A. W. Franklin. 1,704,244; Mar. 5.
- Indicating the condition of food substances, Method and apparatus for. G. C. Robinson and C. G. Harrel. 1,699,922; Jan. 22.
- Indicating the deviation from horizontal of beams of light projected by reflectors, Apparatus for. S. F. Arbuckle. 1,707,593; Apr. 2.
- Indicating the direction of travel of automobiles, Device for. L. Adrienne. 1,712,486; May 14.
- Indicating the head of a liquid body or the flow therefrom, Method and apparatus for. L. A. Mapel. 1,711,236; Apr. 30.
- Indicating the level of pulverulent materials. K. Middelboe. 1,714,515; May 28.
- Indicating the size of the particles in ore pulp flowing in conduits, Method of and apparatus for. H. E. T. Haultain. 1,697,867; Jan. 8.
- Indicator. See—
- |                                |                             |
|--------------------------------|-----------------------------|
| Battery - condition indicator. | Lubricator indicator.       |
| Battery indicator.             | Measure indicator.          |
| Battery-level indicator.       | Mileage indicator.          |
| Blood-pressure indicator.      | Motor-oil-change indicator. |
| Car indicator.                 | Oil change indicator.       |
| Combustion indicator.          | Oil indicator.              |
| Course and distance indicator. | Parking indicator.          |
| Direction indicator.           | Personnel indicator.        |
| Elevator indicator.            | Phase indicator.            |
| Football indicator.            | Piston-travel indicator.    |
| Fuel-feed indicator.           | Pitch indicator.            |
| Fruit-level indicator.         | Position indicator.         |
| Gas indicator.                 | Pressure indicator.         |
| Gasoline indicator.            | Price indicator.            |
| Heat indicator.                | Radio schedule indicator.   |
| Inclination indicator.         | Room indicator.             |
| Inspection indicator.          | Route indicator.            |
| Level indicator.               | Score indicator.            |
| Light indicator.               | Sequence indicator.         |
| Liquid-level indicator.        | Service indicator.          |
|                                | Sight-flow indicator.       |
|                                | Signaling indicator.        |



Indicator: See—

Spark indicator. Time station indicator.  
 Speed indicator. Tire-deflation indicator.  
 Station indicator. Traffic indicator.  
 Stock indicator. Trump indicator.  
 Stop indicator. Vehicle indicator.  
 Street or station indicator. Vibration indicator.  
 Temperature indicator. Water-level indicator.  
 Tide indicator. Wheel-alignment indicator.

Indicator. H. C. Band. 1,735,489; Nov. 12.  
 Indicator. O. N. Bryant. 1,740,153; Dec. 17.  
 Indicator. S. L. Davis. 1,735,735; Nov. 12.  
 Indicator. C. A. Fausel and H. E. Bauer. 1,718,341; June 25.  
 Indicator. F. T. Furuta. 1,722,906; July 30.  
 Indicator. W. Gaertner. 1,715,030; May 28.  
 Indicator. J. F. Groves. 1,710,872; Apr. 30.  
 Indicator. H. V. Harding. 1,705,973; Mar. 19.  
 Indicator. M. F. G. Hoffmann. 1,737,657; Dec. 3.  
 Indicator. S. N. Hurt. 1,715,838; June 4.  
 Indicator. H. G. Kamrath. 1,710,938; Apr. 30.  
 Indicator. P. Kollsman. 1,741,702; Dec. 31.  
 Indicator. M. B. Meyers. 1,720,085; July 9.  
 Indicator. E. S. Pearce and E. C. Karibo. 1,737,200; Nov. 26.  
 Indicator. C. E. Summers. 1,711,001; Apr. 30.  
 Indicator and identifier, Combined valve. J. A. Cole. 1,705,357; Mar. 12.  
 Indicator and signal for motor vehicles, Direction. N. T. Brown. Des. 78,004; Mar. 19.  
 Indicator and signal, Speed. W. Naida. 1,727,665; Sept. 10.  
 Indicator attachment, Direction. H. J. Murray and W. S. Rugg. 1,719,776; July 2.  
 Indicator attachment for computing scales. W. J. Platten. 1,715,074; May 28.  
 Indicator, display apparatus, or annunciator. S. Madsen. 1,728,900; Sept. 17.  
 Indicator element. J. Geloso. 1,703,582; Feb. 26.  
 Indicator for automobile lubrication. S. Brown. 1,700,712; Jan. 29.  
 Indicator for bascules. T. E. Brown, jr. 1,700,464; Jan. 29.  
 Indicator for gasoline depth, Vacuum-connected. T. M. Eynon. 1,727,101; Sept. 3.  
 Indicator for internal-combustion engines, Temperature. C. A. Dunham. 1,703,302; Feb. 26.  
 Indicator for internal-combustion motors, Temperature. G. R. Smith. 1,707,030; Mar. 26.  
 Indicator for motor vehicles, Direction. B. Brandenburg. 1,697,411; Jan. 1.  
 Indicator for motor vehicles, Direction. H. G. and F. T. Runne. Des. 78,942; July 9.  
 Indicator for motor vehicles, vessels, aircraft, or the like, Road or course. G. Mengden. 1,701,582; Feb. 12.  
 Indicator for radio devices. D. R. Lovejoy. 1,729,046; Sept. 24.  
 Indicator for steam pressing irons. C. A. Brewer. 1,708,048; Apr. 9.  
 Indicator for water-cooled engines. T. Veitch. 1,713,107; May 14.  
 Indicator or counter. A. S. Walker. 1,704,230; Mar. 5.  
 Indicator or pointing device. E. Day and M. Goldberger. 1,723,332; Aug. 6.  
 Indicator or recording apparatus. F. D. Potter and N. Hiss. 1,715,511; June 4.  
 Indicator switch for motor vehicles, Direction. M. C. Westfall, C. W. Klausberg, and R. B. Foster. 1,727,422; Sept. 10.  
 Indicator system. M. P. McCarty. 1,739,010; Dec. 10.  
 Indicators, Resetting device for operation. L. N. Crichton. 1,726,653; Sept. 3.  
 Indicators, Steering-wheel drive for Travel. F. G. Whittington. 1,722,779; July 30.  
 Indorsing machine, Check. P. J. Clark. 1,702,763; Feb. 19.  
 Inductance. E. F. Andrews. 1,706,991; Mar. 26.  
 Inductance. G. A. Freeburg. 1,699,661; Jan. 22.  
 Inductance, Adjustable. H. T. Faus. 1,699,376; Jan. 15.  
 Inductance control. L. J. Werner. 1,697,377; Jan. 1.  
 Inductance device. O. Sturmer. 1,735,141; Nov. 12.  
 Inductance, Variable. N. H. Clough. 1,702,073; Feb. 12.  
 Inductance, Variable. P. Crosley, jr. 1,710,966; Apr. 30.  
 Induction furnace. High-frequency. W. Esmarch. 1,721,073; July 16.  
 Induction heater. H. N. Shaw. 1,739,617; Dec. 17.  
 Induction machine and commutator machine, Combination of. L. Dreyfus. 1,709,120; Apr. 16.  
 Induction meter. W. Beusch. 1,740,569; Dec. 24.  
 Induction meter. P. Moos. 1,739,166; Dec. 10.  
 Induction meter. C. Oman. 1,702,450; Feb. 19.  
 Induction meter. W. H. Pratt. 1,722,157; July 23.  
 Induction motor. B. F. Bailey. 1,707,424; Apr. 2.  
 Induction motor. C. L. Kennedy. 1,726,230; Aug. 27.  
 Induction motor. W. Koenig. 1,719,058; July 2.  
 Induction motor, Repulsion. F. Kade. 1,729,345; Sept. 24.  
 Induction regulator. L. G. Tubbs. 1,709,695; Apr. 16.  
 Induction wait-hour meter. W. M. Bradshaw. 1,725,051; Aug. 20.  
 Inductor for hot-air furnaces. J. C. Bostain. 1,725,388; Aug. 20.  
 Inductor belix. F. Conrad. 1,702,461; Feb. 19.  
 Inductor, Variable. R. L. Davis. 1,725,060; Aug. 20.

Indurated porous object and making same. J. J. Kessler. 1,739,597; Dec. 17.  
 Inflatable ball. A. J. Turner. 1,726,088; Aug. 27.  
 Inflatable bodies, for instance toys, of flat rubber plates without the use of molds, Producing. L. and I. Dorogi. 1,697,459; Jan. 1.  
 Inflated ball. I. I. Tubbs. 1,730,309; Oct. 1.  
 Inflating machine, Tire. R. W. Brown. 1,738,491; Dec. 3.  
 Inflation device for pneumatic tires. J. O. Ecker. 1,736,258; Nov. 19.  
 Inflation head. P. D. Graves. 1,717,842; June 18.  
 Inflator for pneumatic tires, Automatic. H. A. Case. 1,707,508; Apr. 2.  
 Information plate. C. A. Rolfe. 1,699,376; Jan. 15.  
 Ingot. E. Gathmann. 1,712,608; May 14.  
 Ingot and mold for making same. E. C. Smith. 1,720,383; July 9.  
 Ingot and producing the same, Compound. H. A. Kuhn. 1,702,387; Feb. 19.  
 Ingot mold. R. Furness. 1,717,504; June 18.  
 Ingot mold. E. Furness. 1,738,882; Dec. 10.  
 Ingot mold. D. J. Giles. 1,703,442; Feb. 26.  
 Ingot mold. F. Klein. 1,710,931; Apr. 30.  
 Ingot mold. W. H. Ramage. 1,721,490; July 16.  
 Ingot mold. R. G. Redmann. 1,739,769; Dec. 17.  
 Ingot mold and ingot. E. Gathmann. 1,719,543; July 2.  
 Ingot mold and stool, Vertical. J. E. Perry. 1,715,620; June 4.  
 Ingot mold, Cast-iron. R. G. Redmann. 1,730,686; Oct. 8.  
 Ingot, Steel. J. E. Perry. 1,720,857; July 16.  
 Ingots, Producing steel. E. Gathmann. 1,711,052; Apr. 30.  
 Inhaler. A. H. Bosworth. 1,702,806; Feb. 19.  
 Inhaler. F. C. Dormont. 1,703,764; Feb. 26.  
 Inhaler. M. C. Galvin. 1,740,083; Dec. 17.  
 Inhaling apparatus. H. W. C. Schröder. 1,731,273; Oct. 15.  
 Inhibiting compound. L. J. Christmann. 1,734,561; Nov. 5.  
 Inhibitor. L. J. Christmann. 1,734,560; Nov. 5.  
 Inhibitor. J. G. Davidson. 1,723,925; Aug. 6.  
 Initials to name plates, Fastening. H. Buchsbaum. 1,738,865; Dec. 10.  
 Injector. R. G. Brooke. 1,710,608; Apr. 23.  
 Injector. R. D. and J. C. Metcalfe. 1,713,772; May 21.  
 Injector, Alcohol. L. J. C. Larsen. 1,702,972; Feb. 19.  
 Injector for internal-combustion engines, Fuel. J. Fukuhara. 1,702,339; Feb. 19.  
 Injector, Steam. R. G. Brooke. 1,706,346; Mar. 19.  
 Ink composition and making same, Printing. G. A. Richter and E. W. Lovering. 1,738,798; Dec. 10.  
 Ink composition and manufacturing the same. G. D. Knight. 1,725,649; Aug. 20.  
 Ink, Composition for lithographing. O. E. Harder. 1,714,166; May 21.  
 Ink composition, Intaglio. G. D. Knight. 1,722,925; July 30.  
 Ink distributor. H. W. De Jarnette. 1,698,123; Jan. 8.  
 Ink for producing designs on rubber or other like materials, Printing. H. N. Morris. 1,715,209; May 28.  
 Ink fountain. C. G. Pritchard. 1,733,168; Oct. 29.  
 Ink fountain. H. C. Schroeder. 1,736,945; Nov. 26.  
 Ink fountain and method. H. C. Schroeder. 1,736,941-4; Nov. 26.  
 Ink, Manufacturing acid-proof and waterproof black. J. Inouye. 1,738,998; Dec. 10.  
 Ink motion, Three-roll. H. C. Jordhoy. 1,703,887; Mar. 5.  
 Ink package. N. C. Phillips. 1,701,728; Feb. 12.  
 Ink pan. T. H. Kirkpatrick. 1,725,146; Aug. 20.  
 Ink, Printing. G. D. Knight. 1,724,603; Aug. 13.  
 Ink-ribbon mechanism. J. S. Duncan and H. E. Hubbard. 1,710,088; Apr. 23.  
 Ink roll. J. F. Ohmer. 1,711,245; Apr. 30.  
 Ink spots and the like, Removing. C. H. Kidwell. 1,732,606; Oct. 22.  
 Ink, Staining. W. C. Schroeder. 1,732,342; Oct. 22.  
 Ink-surfacing cleaner. J. Schultz. 1,700,453; Jan. 29.  
 Ink-transfer member and making the same. G. E. Felton. 1,732,187; Oct. 15.  
 Ink-vending machine, Fountain-pen. J. B. Ford. 1,714,082; May 21.  
 Inked ribbon and making the same. B. Paradise. 1,742,093; Dec. 31.  
 Inking apparatus for printing machines. A. Schlesinger. 1,717,737; June 18.  
 Inking apparatus of printing machines. H. D. Black. 1,732,078-9; Oct. 15.  
 Inking apparatus of printing machines. H. D. Black. 1,733,716; Oct. 29.  
 Inking attachment for color printing. W. Macdonald. 1,721,458; July 16.  
 Inking carriage. H. C. Ryan. 1,741,883; Dec. 31.  
 Inking device for printing presses. A. Schlesinger and H. Lehnhoff. 1,698,280; Jan. 8.  
 Inking mechanism. J. J. Halliwell. 1,713,655; May 21.  
 Inking mechanism. H. A. W. Wood. 1,737,728; Dec. 3.  
 Inking mechanism. L. J. Zahn. 1,720,194; July 9.  
 Inking mechanism for printing machinery. L. W. Claybourn. 1,715,741; June 4.  
 Inking mechanism for printing machines. A. J. Graf. 1,741,414; Dec. 31.  
 Inking mechanism for printing-press cylinders. H. A. W. Wood. 1,730,711; Oct. 8.



- Inking mechanism for printing presses. J. H. Schussler. 1,709,958; Apr. 23.
- Inking mechanism for printing presses. E. J. Smith. 1,730,303; Oct. 1.
- Inking mechanism for printing presses and the like. M. Schütter. 1,707,995; Apr. 9.
- Inking roller, Duplex. C. S. Du Belle. 1,731,739; Oct. 15.
- Inking stencils in addressing machines, Device for. F. B. Brown. 1,728,922; Sept. 24.
- Inking-surface-cleansing appliance. J. Schultz. Re17,275; Apr. 16.
- Inkstand and penrack, Combined. S. Keltonik. Re17,400; Apr. 13.
- Inkstand or similar article. J. R. McGarrity. Des. 77,620; Jan. 29.
- Inkstand, pen rack, desk lamp, and electric fan, Combined. H. Krohn. Des. 78,212; Apr. 9.
- Inkwell. G. L. Bremer. 1,724,557; Aug. 13.
- Inkwell stand. P. Tararo. Des. 79,536; Oct. 1.
- Inlaid work. F. H. Auld. 1,699,559; Jan. 22.
- Inlaid work. F. H. Auld and O. S. Marckworth. 1,706,766; Mar. 26.
- Inlet fitting. L. Felten. 1,716,544; June 11.
- Innersole and method of making, Ribbed. J. V. Poolé. 1,728,362; Sept. 17.
- Inner tube for pneumatic tires. A. G. Fitz Gerald. 1,737,368; Nov. 26.
- Inner tube, Spring. M. V. Beck. 1,734,323; Nov. 5.
- Inner tubes and mandrels to be used therefor, Manufacturing. R. L. Gillespie. 1,718,645; June 25.
- Inner tubes for tires, Method of and apparatus for constructing. H. T. Kraft. 1,724,354; Aug. 13.
- Inner tubes, Making. B. C. Eberhard. 1,712,335; May 7.
- Inner tubes, Making. R. L. Gillespie. 1,718,646; June 25.
- Inner tubes, Manufacture of. G. L. Mather. 1,723,571; Aug. 6.
- Inner tubes, Manufacturing. O. J. Kuhlke. 1,709,796; Apr. 16.
- Inner tubes or other articles, Method of and apparatus for producing. C. S. Moomy. 1,740,029; Dec. 17.
- Inscription device. G. B. Johnson. 1,737,500; Nov. 26.
- Insect catcher. J. M. Lane. 1,722,150; July 23.
- Insect destroyer. W. T. Patterson. 1,721,872; July 23.
- Insect destroyer. J. Prokop. 1,706,541; Mar. 26.
- Insect destroyer. M. Sanchez. 1,714,524; May 28.
- Insect-destroying machine. A. B. Camden. 1,741,359; Dec. 31.
- Insect-poison feeder. G. W. Gring. 1,714,666; May 28.
- Insect-powder distributor. A. J. Roh, jr. 1,729,490; Sept. 24.
- Insect repellent. W. Moore and H. E. Buc. 1,727,305; Sept. 3.
- Insect repellent. H. M. Reiner. 1,732,028; Oct. 15.
- Insect trap. J. Bykowsky. 1,723,919; Aug. 6.
- Insect trap. W. M. Frost. 1,730,608; Oct. 8.
- Insect trap. A. E. Gibson. 1,724,797; Aug. 13.
- Insect trap. C. March. 1,734,818; Nov. 5.
- Insect trap. C. Milewski. 1,737,429; Nov. 26.
- Insect trap. C. J. Nordstrom. 1,733,813; Oct. 29.
- Insect trap. C. F. Opitz. 1,715,173; May 28.
- Insect trap. W. Weinrich. 1,703,022; Feb. 19.
- Insect trap. H. V. Wilkie and A. F. Bachers. 1,718,805; June 25.
- Insecticidal solution. A. W. C. Menzies. 1,732,240; Oct. 22.
- Insecticide and making and using the same to protect plants. W. H. Volck. 1,707,465; Apr. 2.
- Insecticide and making the same. R. G. Mewborne. 1,731,677; Oct. 15.
- Insecticide and making the same. W. H. Volck. 1,707,466; Apr. 2.
- Insecticide containing effective ingredient of derris species, Producing a liquid. S. Takei. 1,724,626; Aug. 13.
- Insecticide distributor. J. W. Letzerich. 1,732,849; Oct. 22.
- Insecticides, Manufacture and use of. C. N. Hand. 1,734,519; Nov. 5.
- Insectifuge. J. H. Gardner. 1,733,958; Oct. 29.
- Insert. J. A. Healy. 1,708,091; Apr. 9.
- Insert for floorings and pavements. P. Galassi. 1,722,139; July 23.
- Insert for tires, Punctureproof resilient. H. Prigge. 1,725,882; Aug. 27.
- Inserting corporation cocks, Method of and apparatus for. P. Mueller and A. C. Schuermann. 1,701,691; Feb. 12.
- Inserting machine. G. Sague. 1,738,119; Dec. 3.
- Inserting machine, Fastener-. S. L. Gookin. 1,705,613; Mar. 19.
- Inserting machine, Fastener-. A. F. Pym. 1,702,364; Feb. 19.
- Inserting machine, Fastening-. G. Goddu and F. L. Mackenzie. 1,703,929; Mar. 5.
- Inserting pillows in slips, Device for. M. Morgan and C. H. Hammer. 1,712,711; May 14.
- Insole. J. A. Mallott. 1,730,466; Oct. 8.
- Insole for shoes. T. Kajiyama. 1,712,387; May 7.
- Insole-positioning means. A. F. Pym. 1,736,276; Nov. 19.
- Insole, Shoe. A. Purpura. 1,700,048; Jan. 22.
- Insole-trimming machine. C. A. Morin. 1,697,283; Jan. 1.
- Insoles, Making. E. T. Cady. 1,727,327; Sept. 10.
- Insoles, Making arch-support. A. S. Curtis. 1,704,656; Mar. 5.
- Inspecting apparatus for meter paper. J. R. Weaver. 1,717,426; June 18.
- Inspecting ovens, Device for. P. Siegert. 1,716,800; June 11.
- Inspecting the interiors of shoes and removing tacks therefrom, Apparatus for. G. E. Molyneux. 1,707,989; Apr. 9.
- Inspection indicator. J. D. Elsom. 1,736,702; Nov. 19.
- Installations, Increasing the capacity of drying. J. G. Olsson. 1,697,927; Jan. 8.
- Instruction device for musical instruments. E. S. Votey. 1,708,643; Apr. 9.
- Instruction device for musical instruments. E. S. Votey. 1,728,191; Sept. 17.
- Instruction device for musical instruments. E. S. Votey. 1,733,477; Oct. 29.
- Instrument and casing therefor, Electric indicating. M. J. Huggins. 1,712,560; May 14.
- Instrument board. H. V. Henderson. Des. 79,427; Sept. 17.
- Instrument board. A. Moorhouse. 1,728,000; Sept. 10.
- Instrument board. J. Zubaty. 1,703,330; Feb. 26.
- Instrument-board panel. H. V. Henderson. Des. 79,365; Sept. 10.
- Instrument-board panel and lighting construction. M. E. Cheney. 1,713,996; May 21.
- Instrument-board panel and lighting construction. J. R. Padesky. 1,712,226; May 7.
- Instrument boards, Attachment for. W. G. Dunn. 1,722,565; July 30.
- Instrument bracket. H. H. Boyce. 1,740,151; Dec. 17.
- Instrument, Dental. R. M. Withycombe. 1,723,226; Aug. 6.
- Instrument for cutting the bands of baled goods and the like. E. J. Davidson. 1,717,008; June 11.
- Instrument for gauging the acceleration or deceleration of vehicles. W. Tapley. 1,710,594; Apr. 23.
- Instrument for light and color play. M. H. Greenewalt. 1,731,772; Oct. 15.
- Instrument for measuring variable forces. J. G. Paulin. 1,737,331; Nov. 26.
- Instrument for testing the capacity of the lungs. F. B. Newell. 1,729,294; Sept. 24.
- Instrument for writing characters on advertising boards. A. Radtke. 1,731,395; Oct. 15.
- Instrument including means for determining the horizontal direction. R. W. Willson. 1,705,146; Mar. 12.
- Instrument light. R. W. Griffith and S. N. Hope. 1,709,213; Apr. 16.
- Instrument mounting. A. R. Lewellen. 1,701,413; Feb. 5.
- Instrument mounting. C. W. Weisenfels. 1,734,315; Nov. 5.
- Instrument panel. D. E. Keeney. 1,712,959; May 14.
- Instrument panel. J. Zubaty. 1,723,113; Aug. 6.
- Instrument-panel design. D. E. Keeney. 1,735,904; Nov. 19.
- Instrument-panel faceplate. H. J. Punke. Des. 77,911; Mar. 5.
- Instrument, Wind. C. B. Gardner, jr. 1,727,973; Sept. 10.
- Insufflator, Powder. W. D. McBendrick. 1,732,566; Oct. 22.
- Insulated collector. R. E. Ferris. 1,731,892; Oct. 15.
- Insulated conductor. H. D. Saylor. 1,713,716; May 21.
- Insulated construction, Heat and sound. W. K. Nelson. 1,732,243; Oct. 22.
- Insulated cover for electric-lamp sockets. P. A. Rossi. 1,735,656; Nov. 12.
- Insulated electric conductor. R. J. Nicholson. 1,718,194; June 18.
- Insulated pipe. A. A. Durant. 1,709,844; Apr. 23.
- Insulated steam table, Electrically-heated. H. A. Hindman. 1,741,569; Dec. 31.
- Insulated stool, Nonskidding. M. B. Salisbury. 1,734,597; Nov. 5.
- Insulated tank. H. B. Lindsay. 1,730,153; Oct. 1.
- Insulated wall plate. H. F. Starrett. 1,713,101; May 14.
- Insulated wire for electric installation. P. Jordan. 1,707,808; Apr. 2.
- Insulating and metal parts of insulators, Connecting the. W. H. Goodman. 1,699,141; Jan. 15.
- Insulating apparatus. D. J. O'Brien. 1,730,090; Oct. 1.
- Insulating bands, Metallizing the surfaces of. E. Paffner. 1,741,477; Dec. 31.
- Insulating block, Heat-. W. L. Bodman. 1,708,464; Apr. 9.
- Insulating building material and making the same. A. Elmendorf. 1,741,760; Dec. 31.
- Insulating bushing, Oil-filled. G. E. Jansson. 1,697,832; Jan. 1.
- Insulating composition and forming the same. S. M. Hull. 1,697,870; Jan. 8.
- Insulating coverings for pipe joints, Forming. C. S. Morgan. 1,715,942; June 4.
- Insulating electrical conductors. F. Wachter. 1,727,146; Sept. 3.
- Insulating filament. H. A. Gardner. 1,730,417; Oct. 8.
- Insulating machine. Armature-core-. L. E. Poole. 1,720,966; July 16.
- Insulating machine. Armature-core-. L. E. Poole. 1,721,037; July 16.
- Insulating material. F. M. Olson. 1,726,040; Aug. 27.
- Insulating material. G. L. Schnable. 1,720,749; July 16.
- Insulating material and making the same. C. E. Hite. 1,702,729; Feb. 19.
- Insulating mounting, Vibration-. C. E. Summers. 1,701,396; Feb. 5.



- Insulating rail connection for metal ties. F. G. Metcalf. 1,697,398; Jan. 1.
- Insulating rod. H. W. H. Warren and R. Newbound. 1,717,287; June 11.
- Insulating sheet and making same. C. M. Clarke. 1,704,174; Mar. 5.
- Insulating sleeves, Producing. V. B. Pike and E. St. John. 1,710,786-7; Apr. 30.
- Insulating structure. K. W. Huffine. 1,734,209; Nov. 26.
- Insulating tape. W. K. Medernach. 1,715,072; May 28.
- Insulating wall. J. F. Mowat and G. P. Wardley. 1,701,587; Feb. 12.
- Insulating wall, Heat-. L. Buck. 1,706,769; Mar. 26.
- Insulation. B. E. Baldof. 1,723,989; Aug. 13.
- Insulation, Acoustic. R. B. Sutter. 1,703,558; Feb. 26.
- Insulation and insulators therefor, System of line. L. Steinberger. 1,702,235; Feb. 12.
- Insulation. Apparatus for removing. W. H. Ray. 1,734,745; Nov. 5.
- Insulation cover, Terminal. J. H. Rouse. 1,705,159; Mar. 12.
- Insulation, Electrical. C. R. Boggs. 1,736,899; Nov. 26.
- Insulation, Electrical. W. C. Geer. 1,731,486; Oct. 15.
- Insulation, Electrical. W. W. Winship. 1,707,590; Apr. 2.
- Insulation for heating elements. C. S. Morgan. 1,715,941; June 4.
- Insulation-forming machine. R. W. Baker. 1,734,192; Nov. 5.
- Insulation material. H. H. Brown. 1,725,335; Aug. 20.
- Insulation of cables, Improving. W. A. Del Mar. 1,731,297; Oct. 15.
- Insulation of contact rails of electric railways. G. Swallow. 1,707,150; Mar. 26.
- Insulation remover. E. Snyder. 1,704,635; Mar. 5.
- Insulator. C. Aalberg. 1,725,122; Aug. 20.
- Insulator. A. O. Austin. 1,715,888-9; June 4.
- Insulator. A. O. Austin. 1,737,749; Dec. 3.
- Insulator. A. O. Austin. 1,740,642; Dec. 24.
- Insulator. F. Conrad. 1,730,124; Oct. 1.
- Insulator. S. C. Cutter. 1,721,657; July 23.
- Insulator. O. Doelter. 1,707,054; Mar. 26.
- Insulator. R. S. and C. S. Drake. 1,713,426; May 14.
- Insulator pin. R. E. Duffy. 1,738,875; Dec. 10.
- Insulator. G. E. Eckard. 1,708,876; Apr. 9.
- Insulator. W. T. Goddard. 1,716,123; June 4.
- Insulator. W. T. Goddard. 1,737,999; Dec. 3.
- Insulator. C. S. Gordon. 1,701,561-2; Feb. 12.
- Insulator. K. A. Hawley. 1,706,488; Mar. 26.
- Insulator. K. A. Hawley. 1,739,637; Dec. 17.
- Insulator. R. M. Johnston. 1,716,963; June 11.
- Insulator. F. J. Kayatt. 1,738,009; Dec. 3.
- Insulator. W. H. Kempton. 1,730,327; Oct. 1.
- Insulator. W. D. Kyle. 1,709,477; Apr. 16.
- Insulator. W. D. Kyle. 1,720,181; July 9.
- Insulator. W. D. Kyle. 1,736,043; Nov. 19.
- Insulator. R. H. Marvin. 1,733,067; Oct. 22.
- Insulator. J. E. Mateer. 1,736,455; Nov. 19.
- Insulator. J. L. Overstall and C. H. Sedgwick. 1,705,584; Mar. 19.
- Insulator. G. H. Schoenthaler. 1,719,945; July 9.
- Insulator. A. C. Scott and W. G. Rupe. 1,718,259; June 25.
- Insulator. H. B. Smith. 1,729,691; Oct. 1.
- Insulator. H. B. Smith. 1,730,170-1; Oct. 1.
- Insulator. H. B. Smith. 1,730,250; Oct. 1.
- Insulator. E. Thomson. 1,717,281; June 11.
- Insulator. N. A. Wahlberg. 1,730,102; Oct. 1.
- Insulator. N. A. Wahlberg. 1,730,180; Oct. 1.
- Insulator and fitting therefor. A. O. Austin. 1,702,238; Feb. 12.
- Insulator and manufacturing same, Electric and thermal. A. A. Samuel. 1,704,629; Mar. 5.
- Insulator assembly, Electrical. A. L. Hagerman. 1,712,432; May 7.
- Insulator bushing. A. O. Austin. 1,726,097; Aug. 27.
- Insulator bushing and means for supporting cores or baffles therein. A. O. Austin. 1,726,095; Aug. 27.
- Insulator cap. E. J. McIlvried. 1,707,489; Apr. 2.
- Insulator cap. E. E. Schmid. 1,731,796; Oct. 15.
- Insulator cap. A. G. Steinhmayer. 1,715,478; June 4.
- Insulator caps, Making forged. D. H. Osborne. 1,712,900; May 14.
- Insulator construction, High-tension-. A. O. Austin. 1,702,236; Feb. 12.
- Insulator, Dry-spot. R. Gould. 1,703,853; Feb. 26.
- Insulator, Electrical. O. P. Ziesche. 1,729,532; Sept. 24.
- Insulator, Electric strain. R. M. Reinhardt. 1,702,315; Feb. 19.
- Insulator, Electric suspension. O. Becker. 1,722,887; July 30.
- Insulator, Electric-wire. O. Schaffer. 1,706,987; Mar. 26.
- Insulator fitting. E. H. Jacobs. 1,705,253; Mar. 12.
- Insulator fitting, Suspension. H. R. Holmes. 1,734,167; Nov. 5.
- Insulator for bridle wires. B. Johnson. 1,700,166; Jan. 29.
- Insulator for electric connections. I. F. Giles. 1,706,153; Mar. 19.
- Insulator for high-voltage systems. F. G. Baum. 1,728,522; Sept. 17.
- Insulator for radioantennæ. B. E. Colburn. 1,705,174; Mar. 12.
- Insulator for radio frequency currents. A. E. Marshall. 1,700,066; Jan. 22.
- Insulator for withstanding fog conditions. A. O. Austin. 1,735,560; Nov. 12.
- Insulator, High-voltage. W. Estorff. 1,728,531; Sept. 17.
- Insulator, Low-loss. L. T. Wilson. 1,708,038; Apr. 9.
- Insulator mounting. B. Katzenberger and T. Jansen. 1,704,005; Mar. 5.
- Insulator mounting. W. D. Kyle. 1,715,507; June 4.
- Insulator pins, Manufacturing. A. O. Austin. 1,702,237; Feb. 12.
- Insulator rack. W. D. Kyle. 1,697,317; Jan. 1.
- Insulator rack. C. L. Peirce, jr. 1,710,189; Apr. 23.
- Insulator, Screw. W. D. Kyle. 1,736,044; Nov. 19.
- Insulator, Section. P. G. Swars. 1,705,689; Mar. 19.
- Insulator shells, Apparatus for finishing. D. H. Osborne. 1,732,339; Oct. 22.
- Insulator stack. J. S. Lapp. 1,710,880; Apr. 30.
- Insulator, Strain. C. C. McArthur and G. R. Hotchkiss. 1,702,911; Feb. 19.
- Insulator, Strain. W. H. Pearl. 1,721,259; July 16.
- Insulator structure. W. K. Naylor. 1,725,097; Aug. 20.
- Insulator structure. E. B. Newill. 1,730,232; Oct. 1.
- Insulator structure, High-potential. H. B. Smith. 1,730,169; Oct. 1.
- Insulator support. R. H. Manson. 1,707,668; Apr. 2.
- Insulator supports, making. C. L. Peirce, jr. 1,709,805; Apr. 16.
- Insulator-supporting means. E. W. Brady. 1,729,702; Oct. 1.
- Insulator, Suspension. O. Becker. 1,728,717; Sept. 17.
- Insulator tester. T. Issbiki. 1,723,861; Aug. 6.
- Insulators, Controlling surface resistance of. A. O. Austin. 1,735,829; Nov. 12.
- Insulators, Fitting for. A. O. Austin. 1,735,561; Nov. 12.
- Insulators, Making. K. A. Hawley. 1,699,063; Jan. 15.
- Insulators, Making. S. L. Moore, jr. 1,717,996; June 18.
- Insulators, Raising the flash-over voltage of bushing. A. O. Austin. 1,699,342; Jan. 15.
- Intake for internal-combustion engines, Steam-heated fuel. J. H. Gould. 1,736,003; Nov. 19.
- Intake for milk cans. J. W. Hathaway. 1,703,583; Feb. 26.
- Intake heater. C. R. Greuter. 1,722,846; July 30.
- Integrating apparatus. E. L. Holmes. 1,702,403; Feb. 19.
- Interchangeable handle. L. Koen. 1,731,333; Oct. 15.
- Intercommunicating system. E. W. Niles and W. H. Edwards. 1,702,308; Feb. 19.
- Interleaving apparatus. A. Broadmeyer. 1,709,004; Apr. 16.
- Interlining and a filler therefor, Producing. C. H. Rayner. 1,726,680; Sept. 3.
- Interlock for elevator doors, Electric. R. S. Peele. 1,713,917; May 21.
- Interlock mechanism for valves of multicompartment tanks. A. Davis, jr. 1,700,761; Feb. 5.
- Interlocking bolts and nuts. M. Lapham. 1,734,681; Nov. 5.
- Interlocking joint. W. F. Hofford. 1,735,574; Nov. 12.
- Interlocking machine for railway signaling systems. W. K. Howe. 1,725,735; Aug. 20.
- Interlocking mechanism. C. W. Wyman. 1,702,458; Feb. 19.
- Interlocking system for railroads. W. S. Henry. 1,733,985; Oct. 29.
- Interlocking system for railroads. J. C. Lindner. 1,700,705; Jan. 29.
- Interlocking system for railroads. J. E. Stephenson. 1,733,980; Oct. 29.
- Intermediate of the 1:9-anthraziazole series, New. R. N. Lulek. 1,706,981; Mar. 26.
- Intermittent motion or gravity conveyers, Device for controlling. C. K. Prince. 1,716,664; June 11.
- Intermittently-actuated mechanism. J. P. Daly. 1,710,298; Apr. 23.
- Internal brake. T. P. Chase. 1,726,509; Aug. 27.
- Internal-combustion engine. E. T. Adams. 1,718,934; July 2.
- Internal-combustion engine. J. A. Anglada. 1,731,035; Oct. 8.
- Internal-combustion engine. W. R. Atkeson. 1,707,779; Apr. 2.
- Internal-combustion engine. A. C. Attenu. 1,729,201; Sept. 24.
- Internal-combustion engine. F. X. Atzberger. 1,721,846; July 23.
- Internal-combustion engine. W. C. Baker. 1,719,683; July 2.
- Internal-combustion engine. J. A. H. Barkeij. 1,722,950-1; July 30.
- Internal-combustion engine. J. A. H. Barkeij. 1,741,355; Dec. 31.
- Internal-combustion engine. J. C. Barnaby. 1,719,643; July 2.
- Internal-combustion engine. C. S. Barrell. 1,710,088; Apr. 23.
- Internal-combustion engine. C. G. Barrett. 1,703,653; Feb. 26.
- Internal-combustion engine. E. V. Beals. 1,698,468; Jan. 8.
- Internal-combustion engine. E. O. Bennett. 1,709,652; Apr. 16.
- Internal-combustion engine. G. Boden. 1,719,165; July 2.
- Internal-combustion engine. O. Boden. 1,729,659; Oct. 1.
- Internal-combustion engine. G. H. Brekke. 1,728,472; Sept. 17.



- Internal-combustion engine. F. B. Brown. 1,719,752; July 2.
- Internal-combustion engine. A. P. Brush. 1,710,292; Apr. 23.
- Internal-combustion engine. A. P. Brush and O. M. Nacker. 1,717,872; June 18.
- Internal-combustion engine. H. F. Bryan and R. F. Ensign. 1,727,197; Sept. 3.
- Internal-combustion engine. H. A. Bullard. Re17,326; June 18.
- Internal-combustion engine. E. R. Burtnett. 1,697,553-4; Jan. 1.
- Internal-combustion engine. E. R. Burtnett. 1,703,096; Feb. 26.
- Internal-combustion engine. E. R. Burtnett. 1,720,261; July 9.
- Internal-combustion engine. E. R. Burtnett. 1,723,465; Aug. 6.
- Internal-combustion engine. E. R. Burtnett. 1,731,227-30; Oct. 8.
- Internal-combustion engine. H. Caminez. 1,714,847; May 28.
- Internal-combustion engine. A. G. Carlson. 1,720,206; July 9.
- Internal-combustion engine. C. A. Carlson. 1,727,860; Sept. 10.
- Internal-combustion engine. P. M. Cassat. 1,734,201; Nov. 5.
- Internal-combustion engine. L. N. Causan. 1,701,360; Feb. 5.
- Internal-combustion engine. T. P. Chase. Re17,549; Dec. 31.
- Internal-combustion engine. A. E. L. Chorlton. 1,720,510; July 9.
- Internal-combustion engine. C. M. and S. O. H. Clementson. 1,734,076; Nov. 5.
- Internal-combustion engine. J. S. Coates. 1,731,998; Oct. 15.
- Internal-combustion engine. A. Craigon. 1,741,404; Dec. 31.
- Internal-combustion engine. J. H. Crary. 1,718,116; June 18.
- Internal-combustion engine. J. H. Crary. 1,722,201; July 23.
- Internal-combustion engine. H. E. Curtis. 1,722,517; July 30.
- Internal-combustion engine. G. R. Davenport. 1,696,939; Jan. 1.
- Internal-combustion engine. G. K. Davol. 1,702,467; Feb. 19.
- Internal-combustion engine. V. M. Dean. 1,720,319; July 9.
- Internal-combustion engine. J. H. De Graer. 1,699,228; Jan. 15.
- Internal-combustion engine. W. P. Deppé. 1,697,385; Jan. 1.
- Internal-combustion engine. E. A. De Waters. 1,723,412; Aug. 6.
- Internal-combustion engine. L. J. Doerr. 1,721,899; July 23.
- Internal-combustion engine. M. F. Du Bose. 1,705,638; Mar. 19.
- Internal-combustion engine. E. P. Dumanois. 1,734,763-4; Nov. 5.
- Internal-combustion engine. W. C. Dunn. 1,706,569; Mar. 26.
- Internal-combustion engine. G. S. Edlin and H. H. Stewart. 1,725,625; Aug. 20.
- Internal-combustion engine. L. B. Ellis. 1,709,312; Apr. 16.
- Internal-combustion engine. O. H. Erickson. 1,724,570; Aug. 13.
- Internal-combustion engine. A. Farøy and O. Stangland. 1,719,215; July 2.
- Internal-combustion engine. C. Flaker. 1,705,754; Mar. 19.
- Internal-combustion engine. G. Fornaca. 1,711,882; May 7.
- Internal-combustion engine. A. H. Fox. 1,711,493; May 7.
- Internal-combustion engine. L. O. French. 1,708,056; Apr. 9.
- Internal-combustion engine. E. Garuffa. 1,732,578; Oct. 22.
- Internal-combustion engine. R. F. George. 1,701,807; Feb. 12.
- Internal-combustion engine. R. H. Gerard. 1,728,340; Sept. 17.
- Internal-combustion engine. L. B. Glantz. 1,711,937; May 7.
- Internal-combustion engine. S. B. Gold. 1,731,895; Oct. 15.
- Internal-combustion engine. R. Gouirand. 1,732,011; Oct. 15.
- Internal-combustion engine. W. R. Griswold. 1,701,563; Feb. 12.
- Internal-combustion engine. N. F. Hanson. 1,721,624; July 23.
- Internal-combustion engine. W. Harper, Jr. 1,722,259; July 30.
- Internal-combustion engine. H. T. Herr and A. T. Kasley. 1,701,366; Feb. 5.
- Internal-combustion engine. O. Hetlesater. 1,725,139; Aug. 20.
- Internal-combustion engine. A. L. and J. G. Heurich and A. C. Stapel. 1,726,299; Aug. 27.
- Internal-combustion engine. C. F. Heywood. 1,737,845; Dec. 3.
- Internal-combustion engine. F. D. Holdsworth. 1,730,274; Oct. 1.
- Internal-combustion engine. H. L. Horning. 1,729,972; Oct. 1.
- Internal-combustion engine. J. J. Hruska. 1,732,682; Oct. 22.
- Internal-combustion engine. O. E. Hunt. 1,713,872; May 21.
- Internal-combustion engine. J. Hutchinson. 1,741,987; Dec. 31.
- Internal-combustion engine. J. F. Irwin. 1,713,759; May 21.
- Internal-combustion engine. R. Jardine. 1,735,865; Nov. 19.
- Internal-combustion engine. L. S. Jaussaud. 1,715,368; June 4.
- Internal-combustion engine. P. Jereb. 1,734,489; Nov. 5.
- Internal-combustion engine. N. M. Johnson. 1,729,271; Sept. 24.
- Internal-combustion engine. N. M. Johnson. 1,735,764; Nov. 12.
- Internal-combustion engine. O. E. Jorgensen. 1,704,478; Mar. 5.
- Internal-combustion engine. P. J. and C. H. Jorgensen. 1,701,779; Feb. 12.
- Internal-combustion engine. H. Junkers. 1,722,425; July 30.
- Internal-combustion engine. L. P. Kalb. 1,724,599; Aug. 13.
- Internal-combustion engine. C. H. L. Kendall. 1,721,738; July 23.
- Internal-combustion engine. C. H. Kenneweg. 1,733,228; Oct. 29.
- Internal-combustion engine. C. H. Kennewig. 1,706,693; Mar. 26.
- Internal-combustion engine. H. J. Kline. 1,697,011; Jan. 1.
- Internal-combustion engine. C. Y. Knight. 1,741,994; Dec. 31.
- Internal-combustion engine. C. H. Knudsen. 1,736,287; Nov. 19.
- Internal-combustion engine. S. Ladley. 1,731,385; Oct. 15.
- Internal-combustion engine. J. P. Landrum. 1,729,392; Sept. 24.
- Internal-combustion engine. J. D. Langdon. 1,711,852; May 7.
- Internal-combustion engine. P. Leon. 1,730,079; Oct. 1.
- Internal-combustion engine. P. Lindahl and L. Duncan. 1,739,008; Dec. 10.
- Internal-combustion engine. V. Link. 1,706,623; Mar. 26.
- Internal-combustion engine. A. R. Long. 1,737,599; Dec. 3.
- Internal-combustion engine. G. A. Loud. 1,719,514; July 2.
- Internal-combustion engine. J. H. Lyons. 1,699,111; Jan. 15.
- Internal-combustion engine. E. C. Magdeburger. 1,702,875; Feb. 19.
- Internal-combustion engine. R. Maier and M. Rall. 1,720,561; July 9.
- Internal-combustion engine. H. C. Mallory. 1,731,582; Oct. 15.
- Internal-combustion engine. D. J. Martin. 1,734,867; Nov. 5.
- Internal-combustion engine. R. H. McCoy. 1,720,368; July 9.
- Internal-combustion engine. H. E. McCray. 1,697,987; Jan. 8.
- Internal-combustion engine. H. E. McCray. 1,717,162; June 11.
- Internal-combustion engine. H. E. McCray. 1,727,016; Sept. 3.
- Internal-combustion engine. G. McDowell. 1,707,679; Apr. 2.
- Internal-combustion engine. W. McHarry. 1,697,876; Jan. 8.
- Internal-combustion engine. J. McKlusky. 1,705,130; Mar. 12.
- Internal-combustion engine. E. B. Mead. 1,718,475; June 25.
- Internal-combustion engine. C. C. Minter. 1,741,032; Dec. 24.
- Internal-combustion engine. E. F. and L. C. Mohatt. 1,698,920; Jan. 15.
- Internal-combustion engine. A. Moorhouse. 1,698,060; Jan. 8.
- Internal-combustion engine. A. Moorhouse. 1,712,458; May 7.
- Internal-combustion engine. A. Moorhouse. 1,722,335; July 30.
- Internal-combustion engine. A. Moorhouse. 1,723,947; Aug. 6.
- Internal-combustion engine. A. Moorhouse. 1,734,267; Nov. 5.
- Internal-combustion engine. H. E. Morton. 1,723,879; Aug. 6.
- Internal-combustion engine. G. B. Myers. 1,699,803; Jan. 22.
- Internal-combustion engine. A. M. Niven. 1,739,255; Dec. 10.



- Internal-combustion engine. J. S. Oliver. 1,700,948; Feb. 5.
- Internal-combustion engine. J. V. Osterhout. 1,733,975; Oct. 29.
- Internal-combustion engine. V. H. Palm. 1,735,543; Nov. 12.
- Internal-combustion engine. S. W. Parr and J. H. Nelsen. 1,714,318; May 21.
- Internal-combustion engine. C. W. Pendock. 1,734,181; Nov. 5.
- Internal-combustion engine. F. Pokorny. 1,706,861; Mar. 26.
- Internal-combustion engine. P. Polizzi. 1,705,826; Mar. 19.
- Internal-combustion engine. J. R. Quinlan and L. C. Evon. 1,725,102; Aug. 20.
- Internal-combustion engine. C. Reineke. 1,703,752; Feb. 26.
- Internal-combustion engine. H. R. Ricardo. 1,705,374; Mar. 12.
- Internal-combustion engine. J. V. Rice, jr. 1,737,976; Dec. 3.
- Internal-combustion engine. W. Riehm. 1,702,572; Feb. 19.
- Internal-combustion engine. H. M. Rockwell. 1,717,066; June 11.
- Internal-combustion engine. F. H. Royce. 1,708,901; Apr. 9.
- Internal-combustion engine. F. H. Royce. 1,717,068; June 11.
- Internal-combustion engine. W. P. Rudkin. 1,704,951; Mar. 12.
- Internal-combustion engine. F. J. Rummier. 1,717,811; June 18.
- Internal-combustion engine. E. A. Ryder. 1,718,490; June 25.
- Internal-combustion engine. P. Sapienza. 1,740,040; Dec. 17.
- Internal-combustion engine. H. A. Schmidt. 1,697,931; Jan. 8.
- Internal-combustion engine. H. F. Schmidt. 1,701,390; Feb. 5.
- Internal-combustion engine. M. Seren. 1,725,545; Aug. 20.
- Internal-combustion engine. A. G. Sherman. 1,733,431; Oct. 29.
- Internal-combustion engine. A. Signorini and G. Geloso. 1,721,320; July 16.
- Internal-combustion engine. E. Sokal. 1,724,526; Aug. 13.
- Internal-combustion engine. A. Sommer and A. G. Hood. 1,706,258; Mar. 19.
- Internal-combustion engine. D. J. Stebbins. 1,726,047; Aug. 27.
- Internal-combustion engine. B. C. Stickney. 1,729,804; Oct. 1.
- Internal-combustion engine. B. C. Stickney. 1,730,174; Oct. 1.
- Internal-combustion engine. B. C. Stickney. 1,740,843; Dec. 24.
- Internal-combustion engine. G. Storle. 1,730,594; Oct. 8.
- Internal-combustion engine. F. G. Thannhauser. 1,712,945; May 14.
- Internal-combustion engine. W. R. Trammell. 1,716,198; June 4.
- Internal-combustion engine. H. Turney. 1,731,601; Oct. 15.
- Internal-combustion engine. W. G. Unger. 1,700,658; Jan. 29.
- Internal-combustion engine. L. E. Van Hise. 1,722,646; July 30.
- Internal-combustion engine. C. W. Van Ranst. 1,738,159; Dec. 3.
- Internal-combustion engine. J. G. Vincent. 1,698,078; Jan. 8.
- Internal-combustion engine. J. B. Watson. 1,741,894; Dec. 31.
- Internal-combustion engine. J. H. Watters. 1,699,171; Jan. 15.
- Internal-combustion engine. H. Weiss. 1,712,861; May 14.
- Internal-combustion engine. A. J. West. 1,701,990; Feb. 12.
- Internal-combustion engine. W. A. Whatmough and S. M. Findlater. 1,722,404; July 30.
- Internal-combustion engine. W. Wheeler. 1,699,215; Jan. 15.
- Internal-combustion engine. W. Wheeler. 1,725,385; Aug. 20.
- Internal-combustion engine. W. Wheeler. 1,730,182; Oct. 1.
- Internal-combustion engine. A. V. D. Willgoos. 1,708,458; Apr. 9.
- Internal-combustion engine. A. V. D. Willgoos. 1,712,539; May 14.
- Internal-combustion engine. W. Wills. 1,722,726; July 30.
- Internal-combustion engine. E. A. Winfield. 1,699,260; Jan. 15.
- Internal-combustion engine. A. Winton. 1,729,530; Sept. 24.
- Internal-combustion engine. L. M. Woolson. 1,698,044; Jan. 8.
- Internal-combustion engine. L. M. Woolson. 1,701,550-1; Feb. 12.
- Internal-combustion engine. L. M. Woolson. 1,701,599; Feb. 12.
- Internal-combustion engine. L. M. Woolson. 1,712,464-6; May 7.
- Internal-combustion engine. L. M. Woolson. 1,722,350; July 30.
- Internal-combustion engine. L. M. Woolson. 1,728,026-27; Sept. 10.
- Internal-combustion engine. C. V. Wright. 1,707,153; Mar. 26.
- Internal-combustion engine, Double-acting. A. A. Gigli. 1,697,723; Jan. 1.
- Internal-combustion engine, Four-cycle. G. A. Prindle. 1,725,418; Aug. 20.
- Internal-combustion engine, Multicylinder two-stroke-cycle. E. Brown. 1,703,718; Feb. 26.
- Internal-combustion engine, Opposed-piston. T. D. Kelley. 1,723,865; Aug. 6.
- Internal-combustion engine, Radial. P. L. Weiller. 1,733,037; Oct. 22.
- Internal-combustion engine, Rotary. V. Cizek. 1,716,621; June 11.
- Internal-combustion engine, Rotary. E. O. Shreffler and A. D. Lesage. 1,720,098; July 9.
- Internal-combustion engine, Rotary. H. Tropp. 1,739,104; Dec. 10.
- Internal-combustion engine, Rotary. I. F. Wildey. 1,701,648; Feb. 12.
- Internal-combustion engine, Sleeve-valve. H. R. Ricardo. 1,718,076; June 18.
- Internal-combustion engine, Sleeve-valve. H. R. Ricardo. 1,735,975; Nov. 19.
- Internal-combustion engine, Two-cycle. C. G. Curtis. 1,734,459; Nov. 5.
- Internal-combustion engine, Two-cycle. W. B. Sands. 1,711,906; May 7.
- Internal-combustion engine, Two-stroke. M. Louis. 1,712,963; May 14.
- Internal-combustion engine, Two-stroke. F. Rochefort. 1,718,879; June 25.
- Internal-combustion engine, Valveless. L. J. Bregère. 1,729,242; Sept. 24.
- Internal-combustion engine, Variable-compression. F. E. Gough. 1,737,082; Nov. 26.
- Internal-combustion engines, Appliance for. W. W. Smith. 1,729,802; Oct. 1.
- Internal-combustion motor. G. H. Decker and H. A. Decker. 1,707,052; Mar. 26.
- Internal-combustion motor. M. W. Hall. 1,707,005; Mar. 26.
- Internal-combustion motor. M. W. Hall. 1,714,364; May 21.
- Internal-combustion motor. H. C. Heckman. 1,730,073; Oct. 1.
- Internal-combustion motor. C. F. Kjellberg. 1,698,757; Jan. 15.
- Internal-combustion motor. C. T. Litton. 1,707,737; Apr. 2.
- Interviewer. J. E. Lind. 1,700,413; Jan. 29.
- Interviewer. J. W. Woolley. 1,716,571; June 11.
- Introducing materials between rollers. A. C. Wehnert. 1,719,035; July 2.
- Invalid appliance. K. Hall. 1,715,915; June 4.
- Invalid chair. M. E. Roe. 1,739,260; Dec. 10.
- Invalid's table. C. M. Newman. 1,729,679; Oct. 1.
- Iodine, Obtaining organic. P. Gloess. 1,710,255; Apr. 23.
- Iodine, Recovering. E. Kurek. 1,731,309; Oct. 15.
- Iodine, Recovering. J. W. Turrentine. 1,708,287; Apr. 9.
- Ionization and catalytic treatment of matter, Apparatus for. I. W. Henry. 1,709,813; Apr. 16.
- Ionization and hydrogenation of hydrocarbon starting material, vapor, and oil, Apparatus for and method of. I. W. Henry. 1,709,814; Apr. 16.
- Iridescent products and making the same. M. C. Meyer. 1,740,615; Dec. 24.
- Iron: See—
- Brake-beam safety iron.
  - Center iron.
  - Corner iron.
  - Curling iron.
  - Electric iron.
  - Heat-treating iron.
  - Pressing iron.
  - Puddling iron.
  - Soldering iron.
  - Steaming iron.
  - Striking casting and carry iron.
  - Waffle iron.
- Iron. E. L. Davis. 1,736,698; Nov. 19.
- Iron and clasp for binding cases, Prepared hoop. H. He-gray. 1,719,701; July 2.
- Iron and steel, Apparatus for manufacturing. P. J. Peyra-chon. 1,720,055; July 9.
- Iron and steel, Molybdenum alloy. A. Kissock. 1,736,120; Nov. 19.
- Iron and steel, Rustproofing articles of. W. H. Allen. 1,735,842; Nov. 19.
- Iron and steel sheets, Production of ductile. H. T. Graf-ton. 1,723,152; Aug. 6.
- Iron-bending machine. G. C. Roy. 1,717,735; June 18.
- Iron carbonate ores, Roasting. A. Apold and H. Fleissner. 1,729,697; Oct. 1.
- Iron carbonyl compositions and their manufacture, Stable. M. Müller-Cunradi. 1,722,076; July 23.
- Iron carbonyl, Manufacture of. M. Müller-Cunradi. 1,725,619; Aug. 20.
- Iron for forming ringlet curls. L. P. Meade. 1,719,232; July 2.
- Iron from its ores, Direct reduction of. S. L. Madorsky. 1,711,738; May 7.



- Iron, Manufacture of a highly-valuable cast. E. Piwowarsky, 1,705,995; Mar. 19.
- Iron, Manufacture of alloy pig. H. P. Parrock. 1,716,181; June 4.
- Iron, Obtaining cast. E. Piwowarsky. 1,715,509; June 4.
- Iron of small grain size, Pure. W. Meiser, W. Schubardt, and O. Kramer. 1,735,405; Nov. 12.
- Iron ore, blast-furnace flue dust, burnt pyrite, purple ore, and the like, Enriching. H. A. Mueller. 1,738,603; Dec. 10.
- Iron oxides and their production. C. L. Delachaux. 1,702,250; Feb. 19.
- Iron preparation having yeast as its basic substance, Manufacture of a therapeutically-active. C. Massatsch. 1,710,534; Apr. 23.
- Iron, Production of gray cast. H. Hanemann. 1,705,972; Mar. 19.
- Iron, Production of soft. B. Weishan. 1,742,111; Dec. 31.
- Iron, Purifying pig. F. Wüst. 1,730,960; Oct. 8.
- Iron roll, Chilled cast. C. I. Niedringhaus and L. W. Mesta. 1,702,128; Feb. 12.
- Iron sponge, Production of. S. E. Sieurin. 1,714,280; May 21.
- Iron stand. A. M. Fuller. 1,736,650; Nov. 19.
- Iron stand. A. Ruelland. 1,708,957; Apr. 16.
- Iron support. R. S. Blitz. 1,700,876; Feb. 5.
- Ironer, Flatwork. C. E. Hamilton. 1,740,980; Dec. 24.
- Ironer, Flat-work. C. O. Reeps. 1,722,823; July 30.
- Ironing and sleeve board. B. Bryan. 1,725,614; Aug. 20.
- Ironing board. B. Adams. 1,711,515; May 7.
- Ironing board. J. J. Cutler. 1,707,114; Mar. 26.
- Ironing board. J. P. Doman. 1,727,756; Sept. 10.
- Ironing board. J. P. Dorau. 1,717,013-14; June 11.
- Ironing board. W. D. George. 1,741,052; Dec. 24.
- Ironing board. E. N. Johnson. 1,719,551; July 2.
- Ironing board. J. E. Kalgren. 1,733,806; Oct. 29.
- Ironing board. J. E. Kalgren. 1,734,627; Nov. 5.
- Ironing board. O. M. Klemm. 1,721,044; July 16.
- Ironing board. G. G. Mitkoff. 1,729,353; Sept. 24.
- Ironing board. E. A. Nordin. 1,741,581; Dec. 31.
- Ironing board. J. A. Owen. 1,725,099; Aug. 20.
- Ironing board. C. C. Skinner. 1,703,282; Feb. 26.
- Ironing board. E. M. Trammell. 1,734,409; Nov. 5.
- Ironing board. R. M. Wardle. 1,702,025; Feb. 12.
- Ironing board and chair, Combination. O. C. Armstrong and J. R. Stephenson. 1,703,981; Mar. 5.
- Ironing board and locking device therefor. C. A. Beil. 1,712,867; May 14.
- Ironing-board attachment. M. H. Berner. 1,724,175; Aug. 13.
- Ironing-board attachment. F. A. Morin. 1,736,354; Nov. 19.
- Ironing board, Concealable. P. E. Joseph. 1,706,170; Mar. 19.
- Ironing board, convertible table, and cabinet, Combined. C. W. Sanders. 1,700,545; Jan. 29.
- Ironing board, Double. C. B. Sherlock. 1,731,324; Oct. 15.
- Ironing board, Foldable. W. M. Hubbs. 1,730,326; Oct. 1.
- Ironing board, Folding. F. C. Starr and A. J. Waters. 1,699,766; Jan. 22.
- Ironing board, Reversible. H. L. Hoag. 1,729,388; Sept. 24.
- Ironing-board table. E. B. Hance. 1,735,078; Nov. 12.
- Ironing clothes and other articles, Device for. T. C. Woodman. 1,725,841; Aug. 27.
- Ironing machine. L. F. Balles and W. L. Carden. 1,715,053; May 28.
- Ironing machine. E. J. Carroll and G. W. Johnson. 1,717,874; June 18.
- Ironing machine. L. W. Fischer and C. F. Strong. 1,707,056; Mar. 26.
- Ironing machine. R. Hoe. 1,705,921; Mar. 19.
- Ironing machine. J. T. Hume. 1,701,720; Feb. 12.
- Ironing machine. J. T. Hume. 1,704,129; Mar. 5.
- Ironing machine. J. T. Hume. 1,712,958; May 14.
- Ironing machine. J. Prachar. 1,699,310; Jan. 15.
- Ironing machine. C. O. Reeps. 1,731,793; Oct. 15.
- Ironing machine. H. F. Tol. 1,699,458; Jan. 15.
- Ironing machine. J. J. Tomkinson. 1,699,723; Jan. 22.
- Ironing-machine frame. W. G. Stowell and L. A. Hersh. Des. 78,129; Mar. 26.
- Ironing machine, Portable. M. Hedglen. 1,734,089; Nov. 5.
- Ironing machine, Shoe mounting for. H. Hill. 1,741,298; Dec. 31.
- Ironing machine, Shoe-toe. F. Hume. 1,714,560; May 28.
- Ironing machine, Towel. R. Presher. 1,732,278; Oct. 22.
- Ironing machines, Feeding apparatus for. C. P. Jahnke. 1,703,586; Feb. 26.
- Ironing roll. B. W. Brockett. 1,710,401; Apr. 23.
- Ironing table. W. H. Barrie. 1,703,333; Feb. 26.
- Ironing table. J. E. Kalgren. 1,734,628; Nov. 5.
- Ironing table. C. B. and G. P. Lenney. 1,740,183; Dec. 17.
- Ironing table. O. Magnuson. 1,723,796; Aug. 6.
- Ironing table. W. S. Petty. 1,723,439; Aug. 6.
- Ironing table. W. S. Petty. 1,725,207; Aug. 20.
- Ironing table. G. R. Reeves. 1,724,416; Aug. 13.
- Ironing table. J. P. Sundin. 1,714,932; May 28.
- Ironing table, Folding. H. J. Gilbert. 1,738,886; Dec. 10.
- Ironing table, Folding. A. E. Todd. 1,723,532; Aug. 6.
- Irons from the movable arms of ironing machines, Device for suspending. H. F. Tol. 1,698,352; Jan. 8.
- Irregular objects, Manufacture of. L. E. Topham. 1,725,770; Aug. 27.
- Irregular-shaped objects, Manufacture of. E. F. Kenney. 1,697,068; Jan. 1.
- Irrigating apparatus. R. H. Eves. 1,715,544; June 4.
- Irrigating golf greens, Apparatus for. E. G. Munz. 1,710,888; Apr. 30.
- Irrigating machine. A., and F. Howell. 1,698,019; Jan. 8.
- Irrigation bag, Collapsible. H. J. Lillford. 1,718,369; June 25.
- Irrigation-control device. E. Hollander. 1,710,540; Apr. 23.
- Irrigation ditcher. R. C. Chattin. 1,703,098; Feb. 26.
- Irrigation furrow-forming device. T. Mansfield. 1,716,704; June 11.
- Irrigation of the soil, System for the automatic. B. Korneff. 1,710,362; Apr. 23.
- Irrigator, Canine nasal. G. G. Graham. 1,734,426; Nov. 5.
- Irrigator for the intestines, bladder, pelvis, and the like. G. Bucky. 1,726,212; Aug. 27.
- Irrigator, Internal. H. Hertzberg. 1,710,701; Apr. 30.
- Isatin derivative and making same. M. P. Schmidt and O. Herrmann. 1,700,814; Feb. 5.
- Isatins, Preparing. K. Schirmacher and K. Renn. 1,698,894; Jan. 15.
- Isodibenzanthrones, Production of. A. Lüttringhaus and H. Wolff. 1,725,590; Aug. 20.
- Italian smoking chair. P. P. Aiello. Des. 79,053; July 30.
- Jack: See—
- Automobile jack. Oil-field jack.
- Automobile lifting jack. Pneumatic jack.
- Building jack. Portable jack.
- Crane jack. Pump jack.
- Derrick jack. Pumping jack.
- Double-lift jack. Push and pull jack.
- Double-rack jack. Roll-spreading jack.
- Fender jack. Roof jack.
- Fluid-operated jack. Screw jack.
- Heel-attaching jack. Self-lowering jack.
- Hydraulic jack. Shoe jack.
- Journal-box jack. Tube jack.
- Lasting jack. Tubular jack.
- Lifting jack. Unloading jack.
- Load-lifting jack. Vehicle jack.
- Jack. S. P. Barker. 1,708,717; Apr. 9.
- Jack. A. L. Johnson. 1,735,839; Nov. 12.
- Jack. F. R. McGee. 1,702,356; Feb. 19.
- Jack. A. McNab. 1,731,254; Oct. 15.
- Jack. W. B. Runyan. 1,734,831; Nov. 5.
- Jack. W. B. Runyan. 1,741,793; Dec. 31.
- Jack. F. H. Schwerin. 1,709,746; Apr. 16.
- Jack. L. G. Shook. 1,701,314; Feb. 5.
- Jack. G. Stoup and G. G. Smith. 1,717,275; June 11.
- Jack. J. R. Thompson. 1,732,175; Oct. 15.
- Jack. G. E. Weaver and E. W. Kelley. 1,738,622; Dec. 10.
- Jack and brake operating device, Automobile. P. A. S. Todd and H. A. Yates. 1,698,612; Jan. 8.
- Jack and bumper for automobile. A. C. Hoecker. 1,717,686; June 18.
- Jack and tire pump, Combined automobile. A. J. Lewis. 1,713,344; May 14.
- Jack assembly, Pump. C. H. Baldwin. 1,710,602; Apr. 23.
- Jack attachment. C. E. Smalley. 1,716,669; June 11.
- Jack device, Emergency. K. Matsumoto. 1,718,658; June 25.
- Jack for standard cable tool and pumping wells, Temper. O. W. Dickerson. 1,720,119; July 9.
- Jack for wood-heel-turning machine and the like, Air. R. L. Raymond. 1,740,934; Dec. 24.
- Jack frame, Pumping. E. E. Greve. 1,716,817; June 11.
- Jack handle and tire-lug wrench, Lifting. W. H. Walker. 1,721,756; July 23.
- Jack spooler, Double inspection. M. Ingham. 1,721,628; July 23.
- Jack transfer. W. F. Bente. 1,708,649; Apr. 9.
- Jacket. W. A. Crego and C. W. Andrews. 1,698,673; Jan. 8.
- Jacket assembly on plugged inflated playing balls and preparing the same, Preserving. F. W. Gibson. 1,713,755; May 21.
- Jacket for incubator lamps. F. E. Coatsworth. 1,706,439; Mar. 26.
- Jacket for mucilage bottles. L. S. Kositchek. Des. 78,468; May 7.
- Jacket, Linoleum. W. H. Waggoner. 1,736,383; Nov. 19.
- Jacketed heater. F. G. Sherbondy. 1,725,974; Aug. 20.
- Jacking and traversing attachment for motor vehicles. A. W. Althoff. 1,740,385; Dec. 17.
- Jacking apparatus for trailers. J. A. Higgins. 1,715,236; May 28.
- Jacking attachment. F. Schildman. 1,715,790; June 4.
- Jacking device for motor and like vehicles. W. R. Bridgens. 1,727,334; Sept. 10.
- Jacquard bar and pattern lug therefor. M. Zimitz. 1,701,522; Feb. 12.
- Jacquard, Electric. W. Recke. 1,726,586; Sept. 3.
- Jamb-supporting stay. E. B. Carlson. 1,697,456; Jan. 1.
- Jar: See—
- Battery jar. Paste jar.
- Compartment jar. Preserving jar.
- Display jar. Tool jar.
- Drilling jar. Urinometer jar.
- Fruit jar. Vacuum jar.
- Fruit or preserve jar. Vacuum-sealed jar.



- Jar. B. F. Conner. Des. 79,179-80; Aug. 13.  
 Jar. W. D. Edwards. Des. 77,822; Feb. 26.  
 Jar. P. G. Lloyd. Des. 79,377; Sept. 10.  
 Jar and the like, Fruit. J. R. Hays and E. M. Lias. 1,700,162; Jan. 29.  
 Jar and the like, Preserve. A. Schiller. 1,700,812; Feb. 5.  
 Jar-cap-removing implement. B. E. Bird. 1,726,465; Aug. 27.  
 Jar-capping machine. W. J. Peele. 1,704,405; Mar. 5.  
 Jar carrier and top wrench. E. J. Joire. 1,720,517; July 9.  
 Jar closure. L. R. N. Carvalho. 1,703,573; Feb. 26.  
 Jar closure. S. Solbue. 1,707,328; Apr. 2.  
 Jar closure, Spring. J. L. Kivlan. 1,707,439; Apr. 2.  
 Jar lifter. W. E. Culp. 1,731,524; Oct. 15.  
 Jar opener. N. C. Disco. 1,734,204; Nov. 5.  
 Jar or similar container. W. D. Teague. Des. 79,944; Nov. 19.  
 Jar or similar container for cigars and the like. B. F. Conner. Des. 79,181; Aug. 13.  
 Javelin. E. Rinneberg. 1,731,686; Oct. 15.  
 Jaw crusher. J. E. Kennedy. 1,719,333; July 2.  
 Jaw wrench, Adjustable. H. Graham. 1,708,722; Apr. 9.  
 Jaw wrench, Adjustable. G. F. Schlote. 1,739,182; Dec. 10.  
 Jetty construction. L. B. Smith. 1,716,509; June 11.  
 Jewel and pivot gauge for watchmakers. C. E. Deming. 1,711,724; May 7.  
 Jewel, Demountable. J. I. Schwartz. 1,726,926; Sept. 3.  
 Jewel mounting, Interchangeable. L. Baum. 1,707,211; Mar. 26.  
 Jewel mounting, Interchangeable. L. Baum. 1,707,780; Apr. 2.  
 Jewel setting or similar article. J. J. Fischer. Des. 78,567; May 21.  
 Jewel setting with index disk plates for clockwork. Resilient cap-. A. Erismann-Schinz. 1,729,542; Sept. 24.  
 Jewel settings, Making tops for. T. A. Mountford. 1,703,685; Feb. 26.  
 Jewelry. C. Birnbaum. 1,731,092; Oct. 8.  
 Jewelry and making it, Linked. O. Heyman. 1,734,625; Nov. 5.  
 Jewelry and watch laundry machine. O. Haber. 1,733,192; Oct. 29.  
 Jewelry box. S. Szymanski. 1,738,333; Dec. 3.  
 Jewelry case. L. E. Vogt. 1,715,966; June 4.  
 Jewelry clasp. H. A. Hengas. 1,728,905; Sept. 17.  
 Jewelry-display box. L. Flier. Des. 79,188; Aug. 13.  
 Jig. H. Bieder. 1,712,453; May 7.  
 Jig, Coal. F. H. Blatch. 1,728,196; Sept. 17.  
 Jig, Coal. M. S. Hachita. 1,701,155; Feb. 5.  
 Jig, Pulsating. M. J. Lide. Re17,272; Apr. 16.  
 Jigging mechanism. M. J. Lide. 1,736,008; Nov. 19.  
 Jockey stick. L. G. Kremlacek. 1,718,862; June 25.  
 Jockey stick. B. R. Mansfield. 1,734,817; Nov. 5.  
 Joinder. W. G. Zimmerman. 1,736,641; Nov. 19.  
 Joining, finishing, and final insulating wire terminals of electrical conductors. Process and device for. C. H. Jasper. 1,700,985; Feb. 5.  
 Joining tubular members. F. Heck. 1,703,037; Feb. 19.  
 Joint: See—  
   Ball joint. Railroad joint.  
   Ball and socket joint. Railroad joint.  
   Ball-and-socket pipe joint. Rim joint.  
   Dental plate joint. Roof joint.  
   Drum connection joint. Roofing joint.  
   Expansion joint. Sealed joint.  
   Extension joint. Stanchion joint.  
   Flexible joint. Swing joint.  
   Fluid-tight joint. Swivel joint.  
   High-pressure joint. Tool joint.  
   Interlocking joint. Universal joint.  
   Metal joint. Welded joint.  
   Pipe joint. Wrist-pin joint.  
   Pivot joint.  
 Joint. G. Flintermann. 1,732,646; Oct. 22.  
 Joint. A. W. Lee. 1,722,003; July 23.  
 Joint. H. C. Lord. 1,707,213-14; Mar. 26.  
 Joint. G. Tasman. Re17,441; Sept. 24.  
 Joint and making same, Tubular. J. L. Mraz. 1,727,895; Sept. 10.  
 Joint and method of making, Resilient. E. Picquerez. 1,732,637; Oct. 22.  
 Joint and packing, Ball-and-socket. W. P. Hannahs. 1,733,457; Oct. 29.  
 Joint attachment, Universal. W. S. Pierce. 1,733,072; Oct. 22.  
 Joint between metallic building elements. J. A. Bohnsack. 1,710,916; Apr. 30.  
 Joint breaker. J. J. Elms and R. L. Foree. 1,728,11; Sept. 10.  
 Joint closure. V. A. Lang. 1,705,486; Mar. 19.  
 Joint connection, Adjustable. W. J. Voelker. 1,708,528; Apr. 9.  
 Joint connection for sheet-metal units. A. R. Gross. 1,728,964; Sept. 24.  
 Joint construction for metal plating of airships. A. W. Azler. 1,740,492; Dec. 24.  
 Joint construction, Top-bow. J. H. Clark. 1,705,750; Mar. 19.  
 Joint for abrasive belts. C. H. Driver. 1,728,673; Sept. 17.  
 Joint for artificial limbs, Roller-bearing ankle. W. A. McElroy. 1,698,372; Jan. 8.  
 Joint for concrete roadways, Longitudinal. R. D. Gregg and F. L. Shidler. 1,704,431; Mar. 5.  
 Joint for conduits. J. T. Pearson and R. H. Olley. 1,702,667; Feb. 19.  
 Joint for corrugated boxes. M. C. Romer. 1,731,111; Oct. 8.  
 Joint for flanged steel beams. E. Schellewald. 1,724,519; Aug. 13.  
 Joint for fluid meters and the like. W. S. Brubaker. 1,702,762; Feb. 19.  
 Joint for folding rules, Spring. C. G. Watson. 1,718,505; June 25.  
 Joint for insulators and the like, Yielding. A. O. Austin. 1,740,638; Dec. 24.  
 Joint for lighting systems. P. M. Hotchkiss. 1,727,772; Sept. 10.  
 Joint for linings of fabric bags and tubes and making same, Expandable. R. E. Pierce. 1,702,593; Feb. 19.  
 Joint for metallic members. E. J. Hayman. 1,738,578; Dec. 10.  
 Joint for pipe, Pivotal. E. C. Weisgerber. 1,717,640; June 18.  
 Joint for pipes, Expansion. G. B. Darby. 1,720,543; July 9.  
 Joint for pipes, Swivel. W. Johnston. 1,717,846; June 18.  
 Joint for pneumatic conveyers, Universal. J. N. Feuder. 1,700,311; Jan. 29.  
 Joint for railroad tracks. A. de Armas. 1,697,844; Jan. 8.  
 Joint for steel construction, Interlocking. C. Carmichael. 1,728,782; Sept. 17.  
 Joint for structural-steel columns and girders. J. A. Larkin. 1,727,293; Sept. 3.  
 Joint for wires or cables. T. Varney. 1,714,253; May 21.  
 Joint lock, Sucker-rod-. S. L. Jolley. 1,741,720; Dec. 31.  
 Joint material, Expansion-. A. C. Fischer. 1,728,114; Sept. 10.  
 Joint of plate steel and structural steel work. R. J. Mansfield. 1,731,469; Oct. 15.  
 Joint reinforcement for metal doors or the like. L. Liebman. 1,729,586; Sept. 24.  
 Joint runner, Lead-. J. T. Clark. 1,712,199; May 7.  
 Joint sealing. G. M. Wehrle. 1,716,994; June 11.  
 Joint spaces in concrete or the like structures, Method of and apparatus for producing expansion-. A. C. Fischer. 1,731,335; Oct. 15.  
 Joint strip, Expansion-. L. M. Swope and J. C. Zulauf. 1,709,692; Apr. 16.  
 Joint structure for wall boards. H. J. Viswat. 1,716,674; June 11.  
 Joister and molding machine. C. R. Kittle. 1,714,470; May 21.  
 Joister guard. W. H. Morris and W. C. Tucker. 1,700,206; Jan. 29.  
 Joister, Mason's. H. F. Rathjen. 1,715,569; June 4.  
 Joints, Apparatus for making tubular. J. L. Mraz. 1,727,896; Sept. 10.  
 Joints around rotating shafts and the like, Making fluid-tight. J. H. Stuthridge and T. M. Hack. 1,738,619; Dec. 10.  
 Joints in concrete roadways, Apparatus for forming. R. C. Thomasson. 1,718,840; June 25.  
 Joints in oil-filled cables with hollow conductors, Producing. K. Schlecker. 1,707,324; Apr. 2.  
 Joist and the manufacture thereof, Metal. C. I. Bates. 1,718,938; July 2.  
 Joist hanger for concrete buildings. F. N. Ropp. 1,728,981; Sept. 24.  
 Joist, Metallic. W. F. Zabrisckie. 1,704,235; Mar. 5.  
 Joist-reinforcing device. W. P. Schuster. 1,698,202; Jan. 8.  
 Joist, Skeletonized. G. F. Pawling. 1,711,284; Apr. 30.  
 Joist, Steel. F. H. Moyer. 1,727,893; Sept. 10.  
 Joist, Structural building. R. V. Yeager. 1,725,501; Aug. 20.  
 Joists, Bridging for. W. E. White. 1,735,590-1; Nov. 12.  
 Joist packing machine. G. W. Blake. 1,739,707; Dec. 17.  
 Journal-bearing wedge and making same, Forged. F. K. Habenicht, and F. H. Pietzsch. 1,726,180; Aug. 27.  
 Journal box. J. G. Ayers. 1,715,267; May 28.  
 Journal box. D. S. Barrows. 1,706,098; Mar. 19.  
 Journal box. D. S. Barrows. 1,706,688; Mar. 26.  
 Journal box. D. S. Barrows. 1,710,139; Apr. 23.  
 Journal box. D. S. Barrows. 1,712,018; May 7.  
 Journal box. D. S. Barrows. 1,725,990; Aug. 13.  
 Journal box. H. F. Beechman. 1,714,153; May 21.  
 Journal box. E. L. Bradford. 1,706,103; Mar. 19.  
 Journal box. M. Christman. 1,733,401; Oct. 29.  
 Journal box. P. R. Drenning. 1,717,551; June 18.  
 Journal box. G. Grandjean. 1,741,931; Dec. 31.  
 Journal box. J. L. Mohun. 1,728,433; Sept. 17.  
 Journal box and axle. H. W. Jones. 1,720,077; July 9.  
 Journal-box assembly, Railway-. J. J. Melley and J. W. Chapman. 1,735,258; Nov. 12.  
 Journal box, Automatic lubricating. A. de Bac. 1,726,261; Aug. 27.  
 Journal box, Automatic lubricating. G. Grandjean. 1,736,705; Nov. 19.  
 Journal box, Car. G. A. Woodman. 1,714,746; May 28.  
 Journal-box jack. I. V. K. Hott. 1,724,133; Aug. 13.  
 Journal box, Locomotive-driving-axle. W. F. J. Casey. G. Cavin, and C. E. Brooks. 1,703,508; Feb. 26.  
 Journal-box mechanism. F. R. Campbell. 1,703,293; Feb. 26.  
 Journal box, Railway. L. D. Gregg. 1,720,324; July 9.



- Journal mechanism. F. J. Oakes and W. F. Brandt. 1,704,205; Mar. 5.
- Journal stop, Articulated. G. F. Couch. 1,712,871; May 14.
- Jug, Toby. J. Hood. Des. 79,928-9; Nov. 19.
- Juice extractor. E. MacDonald. 1,702,737; Feb. 19.
- Juice extractor. C. Meyer. 1,742,089; Dec. 31.
- Juice extractor. C. P. Strite and A. Nordgren. 1,697,618; Jan. 1.
- Juice extractor, Fruit-. C. J. Ulrich. 1,698,860; Jan. 15.
- Juice extractor, Portable. J. C. Steiner. 1,725,221; Aug. 20.
- Jump trap. C. H. Williams. 1,733,040; Oct. 22.
- Junction block for electric conductors. A. Bürl. 1,728,330; Sept. 17.
- Junction block, Separable. J. S. Kinney. 1,718,362; June 25.
- Junction box for electric fixtures. P. Bilz. 1,722,622; July 30.
- Junction box for electric lead-covered cables and the like. B. Olsson and B. Ell. 1,697,539; Jan. 1.
- Kennel, Breeding. H. Boldt. 1,737,073; Nov. 26.
- Kennel construction. W. H. Stark and J. Sauer. 1,715,175; May 28.
- Kernels of coffee berries and other similar fruits, Process and apparatus for stripping the. S. Birnie. 1,737,071; Nov. 26.
- Ketene, Making. H. T. Clarke and C. E. Waring. 1,723,724; Aug. 6.
- Keto-alcohols, Preparing. A. Knorr and A. Weissenborn. 1,714,378; May 21.
- Ketone-aldehyde intermediate and resinous complex, Forming. C. Ellis. 1,716,542; June 11.
- Ketone and making same. W. Schoeller and C. Zöllner. 1,737,203; Nov. 26.
- Ketones and their alkyl derivatives having more than nine ring members, Preparation of monocyclic. L. Ruzicka. 1,702,842-50; Feb. 19.
- Ketones having more than nine ring members, Preparation of monocyclic. L. Ruzicka. 1,702,852; Feb. 19.
- Ketones of the anthracene series, Production of. A. Lüttringhaus and F. Kacer. 1,730,081; Oct. 1.
- Ketonic compound and making it, Cyclic. H. Greune. 1,702,002; Feb. 12.
- Kettle. J. M. Barton. 1,741,675; Dec. 31.
- Kettle. C. Greenwood. 1,716,124; June 4.
- Kettle bails, Supporting. R. N. Kircher. 1,698,915; Jan. 15.
- Kettle, Safety. T. W. Fitzgerald. 1,700,793; Feb. 5.
- Key: See—
- Lock-head key.
- Key. H. M. Knight. 1,726,903; Sept. 3.
- Key action for typewriters and other machines. O. U. Desha. 1,721,857; July 23.
- Key action for typewriters and other machines. O. U. Desha. 1,723,725; Aug. 6.
- Key and license container, Combined. S. D. and P. M. Griffin. 1,715,752; June 4.
- Key blank. S. Segal. 1,707,642; Apr. 2.
- Keyboard and playing the same, Chromatic glissando. C. Freborg and C. Jelly. 1,706,604; Mar. 26.
- Keyboard and staff reader. E. L. Buxton. 1,724,904; Aug. 20.
- Keyboard for typewriting machines, typesetting machines, or the like. W. Schäfer. 1,742,152; Dec. 31.
- Keyboard mechanism. J. B. Walsh. 1,697,742; Jan. 1.
- Keyboard, Practice. G. Jones. 1,735,577; Nov. 12.
- Key bolts, Manufacturing. K. F. W. Kempf. 1,731,423; Oct. 15.
- Key box of type setting and casting machines. H. Zürich. 1,713,732; May 21.
- Key case. E. V. Andersen. 1,739,814; Dec. 17.
- Key case. S. Barbara. 1,715,348; June 4.
- Key case. J. P. de l'Eau. 1,721,510; July 23.
- Key case. H. L. Fischer. 1,738,698; Dec. 10.
- Key case. R. C. Legat. 1,706,175; Mar. 19.
- Key case. C. Lorber. 1,709,532; Apr. 16.
- Key case. C. Lorber. 1,721,307; July 16.
- Key case. C. Lorber. 1,723,286; Aug. 6.
- Key case. A. B. Porter. 1,706,183; Mar. 19.
- Key case, Pendant. F. M. Kasting. 1,726,569; Sept. 3.
- Key-column clamp. G. F. Newton. 1,702,807; Feb. 19.
- Key, Coffer. W. T. Armstrong. 1,721,100; July 16.
- Key-duplicating machine. F. A. Bachmann. 1,697,747; Jan. 1.
- Key for wind musical instruments. A. E. Klingler. 1,728,553; Sept. 17.
- Key-holding device, Skate-. N. J. Anderson. 1,740,138; Dec. 17.
- Keyhole lock. J. Heiden. 1,713,602; May 21.
- Keyhole plug and clamp. F. Heberlein. 1,701,924; Feb. 12.
- Key hook, Swivel. C. Lorber. 1,729,621; Oct. 1.
- Keyless lock. A. Janer. 1,707,523; Apr. 2.
- Key-lever pivot member. M. Garbell. 1,733,788; Oct. 29.
- Key lock. F. N. Roehrich. 1,712,640; May 14.
- Key lock, Burglarproof. H. H. Hathaway. 1,731,418; Oct. 15.
- Key machine. E. P. Simmons. 1,732,032; Oct. 15.
- Key mechanism. H. E. Drevs. 1,727,868; Sept. 10.
- Key mechanism for wind musical instruments. F. A. Buescher. 1,738,351; Dec. 3.
- Key-operated lock. R. H. Klingel. 1,735,868; Nov. 19.
- Key plate, Identification. C. Lorber. 1,705,258; Mar. 12.
- Key protector. C. W. Hampton. 1,700,045; Jan. 22.
- Key-retainer strip. R. H. Thayer. 1,740,048; Dec. 17.
- Key-retaining device. W. E. Heath. 1,705,667; Mar. 19.
- Key, Signature. G. D. Lino. 1,701,785; Feb. 12.
- Key tag and advertising device. K. A. James. 1,718,236; June 25.
- Key unit. H. E. Von Kersburg. 1,736,235; Nov. 19.
- Keyway milling device, Internal. W. von Neudeck. 1,735,841; Nov. 12.
- Keying choker. M. Osnos. 1,730,160; Oct. 1.
- Keys, Device for carrying. J. M. White. 1,709,761; Apr. 16.
- Keys to cans, Attachment of. J. M. Young. 1,710,958; Apr. 30.
- Keys to tearing-strip cans, Attachment of. J. M. Young. 1,705,846; Mar. 19.
- Kick-plated frame. J. H. Hyams. 1,709,911; Apr. 23.
- Kieselguhr, Regeneration of. A. M. Duperu. 1,708,362; Apr. 9.
- Kiln. W. D. Mount and I. Warner. 1,725,763; Aug. 27.
- Kiln. M. S. Price. 1,727,217; Sept. 3.
- Kiln. H. M. Robertson. 1,737,540; Nov. 26.
- Kiln. E. G. Spencer-Churchill. 1,734,855; Nov. 5.
- Kiln and feeder control, Cement. R. W. Ryder. 1,706,592; Mar. 26.
- Kiln-bracing construction. G. E. Luce. 1,732,239; Oct. 22.
- Kiln, Brick. G. W. Denison. 1,721,774; July 23.
- Kiln, Circular. O. Busch. 1,724,392; Aug. 13.
- Kiln construction, Tunnel-. T. G. McDougall. 1,713,852; May 21.
- Kiln, Continuous. H. R. Straight. 1,711,910; May 7.
- Kiln, Continuous tunnel. T. G. McDougall. 1,710,995; Apr. 30.
- Kiln, Down-draft. M. Jones. 1,733,488; Oct. 29.
- Kiln, Dry. F. M. Creighton and W. E. Gray. 1,734,850; Nov. 5.
- Kiln, Dry. H. H. Payzant. 1,711,100; Apr. 30.
- Kiln feed-control system, Rotary. W. R. Bendy. 1,731,809; Oct. 15.
- Kiln, Rotary. A. J. Briggs. 1,734,417; Nov. 5.
- Kiln feed, Rotary-. R. E. Minogue. 1,707,191; Mar. 26.
- Kiln for burning wet cement materials, etc., Rotary. J. S. Fasting. 1,720,786; July 16.
- Kiln plating, Portable. C. E. Fuller. 1,716,341; June 4.
- Kiln, Pottery. A. C. Ward. 1,710,558; Apr. 23.
- Kiln, Rotary. J. S. Fasting. 1,708,693; Apr. 9.
- Kiln stack blower, Portable. E. G. Finzer. 1,721,336; July 16.
- Kiln, Tunnel. G. W. Booth. 1,698,700; Jan. 8.
- Kiln, Tunnel. W. L. Hanley, jr. 1,705,475; Mar. 19.
- Kiln, Tunnel. W. L. Hanley, jr. 1,705,477; Mar. 19.
- Kiln, Tunnel. W. L. Hanley. 1,720,550; July 9.
- Kiln with pyrometer mechanism, Lime. A. E. Truesdell. 1,706,423; Mar. 26.
- Kinesitherapy apparatus. L. Simmons. 1,709,410; Apr. 16.
- Kit, Combination lunch. L. Bowles. 1,703,221; Feb. 26.
- Kit, First-aid. J. E. Harding. 1,721,215; July 16.
- Kit, First-aid. T. Joyce, jr. 1,727,235; Sept. 3.
- Kit, Fisherman's. C. J. Sullivan. 1,725,684; Aug. 20.
- Kit, Fly and bait. V. A. Hansen. 1,711,677; May 7.
- Kit, Folding. H. R. Hedman. 1,725,271; Aug. 20.
- Kit, Garment-repair. H. S. Rosenthal. 1,733,825; Oct. 29.
- Kit, Lunch. J. M. Hothersall. 1,699,698; Jan. 22.
- Kit, Lunch. J. Stefan. 1,739,425; Dec. 10.
- Kit, Medicine. C. Bornmann. 1,712,686; May 14.
- Kit, Mending. Z. H. Beach. 1,710,337; Apr. 23.
- Kit, Outing. C. F. Hemenway. 1,729,216; Sept. 24.
- Kit, Smoker's. J. Battista. 1,704,549; Mar. 5.
- Kit, Tailor's. T. Butera. 1,724,069; Aug. 13.
- Kit, Toilet. L. Halk. 1,715,913; June 4.
- Kit, Waterproof first-aid. J. B. Davies. 1,720,170; July 9.
- Kitchen heater. P. I. Hollman. 1,711,201; Apr. 30.
- Kitchen reminder. W. H. Kuper. 1,702,873; Feb. 19.
- Kitchen utensil. J. I. Haase. 1,707,804; Apr. 2.
- Kitchen utensil. L. E. Knappe. 1,713,876; May 21.
- Kitchen utensil. J. L. Morin. 1,707,231; Apr. 2.
- Kitchenette. E. Burke. 1,733,577; Oct. 29.
- Kitchenette. L. S. Gilmore. 1,732,359; Oct. 22.
- Kitchenette. J. C. Phillips. 1,726,920; Sept. 3.
- Kite. C. A. Albrecht. 1,735,309; Nov. 12.
- Kite. L. Knott. 1,734,493; Nov. 5.
- Kite. M. P. Miller. 1,704,800; Mar. 12.
- Kite. E. B. Wilder. 1,724,539; Aug. 13.
- Kneading and whipping machine. A. V. Aastrup. 1,733,291; Oct. 29.
- Kneading machine, Dough-. H. Dragon. 1,714,004; May 21.
- Kneading machine, Dough-. E. V. Platin. 1,699,916; Jan. 22.
- Knee, elbow, or shoulder cap. S. A. Myers and J. J. Ash. 1,727,897; Sept. 10.
- Kneeling bench. C. M. Wickstrom. 1,712,862-3; May 14.
- Knife. E. S. Perry. 1,706,251; Mar. 19.
- Knife and paint scraper, Combination putty. H. Rothermel. 1,710,113; Apr. 23.
- Knife bar. J. E. Eckersley. 1,700,788; Feb. 5.
- Knife-blade and cartridge type fuse, Renewable. F. L. Young. 1,725,690; Aug. 20.
- Knife-blade switch. C. C. Levy. 1,740,547; Dec. 24.
- Knife-blade switch. Rear-of-pancl. H. J. Crabbs. 1,702,463; Feb. 19.
- Knife block. C. T. Gould. 1,728,181; Sept. 17.
- Knife, Bread. J. Skubic. 1,697,091; Jan. 1.
- Knife, Channel. H. G. Oliphant. 1,738,019; Dec. 3.
- Knife, Detachable-blade. A. S. Sklar. 1,706,712; Mar. 26.
- Knife, Diathermy. S. H. Groff. 1,735,271; Nov. 12.



- Knife door for grinding or masticating hogs, Yielding anvil. C. A. Huffman. 1,735,824; Nov. 12.
- Knife-edges to scale parts, Apparatus for attaching. L. De Brouckere. 1,706,216; Mar. 19.
- Knife, Fly-open. R. E. Brown. 1,701,027; Feb. 5.
- Knife for cutting heavy materials. J. Erickson. 1,706,918; Mar. 26.
- Knife for fountain pens, Eraser. R. Laux. 1,738,496; Dec. 3.
- Knife for hemstitching machines, Cutter. E. Bunin. 1,727,807; Sept. 10.
- Knife for vegetable slicers, Auxiliary. J. A. Andrusis. 1,739,342; Dec. 10.
- Knife handle. R. Le Gore. 1,737,656; Dec. 3.
- Knife handle. C. W. Tillmanns. Des. 77,989; Mar. 12.
- Knife, Hay. W. H. Bertram. 1,711,828; May 7.
- Knife, Lineman's. C. W. Lambert. 1,728,619; Sept. 17.
- Knife, Meat-cutter. J. W. Brown, Jr. 1,703,762; Feb. 26.
- Knife or similar article. S. W. Bowman. Des. 78,190; Apr. 9.
- Knife or similar article, Cuticle. P. T. Frankl. Des. 79,022; July 23.
- Knife, Paper. A. H. Adams, Jr. Des. 77,721; Feb. 19.
- Knife, Paring. T. Bell. 1,735,312; Nov. 12.
- Knife rack. H. G. Gilbert. 1,708,612; Apr. 9.
- Knife, Slug-trimming. S. E. Sperry. 1,741,079; Dec. 24.
- Knife, Tree-skipping. H. M. Jenkins. 1,703,305; Feb. 26.
- Knife, Vegetable. J. Kownacki. 1,713,440; May 14.
- Knife, Vegetable or like peeling. E. Terrell. 1,724,980; Aug. 20.
- Knife, Weeding. K. M. Karlsson. 1,717,351; June 11.
- Knife, Weeding. J. M. Moyer and H. C. Kofoed. 1,697,016; Jan. 1.
- Knife, Wood-cutting. J. E. Eckersley. 1,870,787; Feb. 5.
- Knit fabric. T. G. Vorck. 1,715,482; June 4.
- Knitted articles or fabrics and the manufacture thereof. W. H. Holland. 1,740,650; Dec. 24.
- Knitted fabric. M. Gross. Des. 77,481; Jan. 15.
- Knitted fabric. C. Hadfield. 1,721,390; July 16.
- Knitted fabric. V. Lombardi. 1,728,294; Sept. 17.
- Knitted fabric. B. Pfommer. 1,722,391; July 30.
- Knitted fabrics and articles, Manufacture of. C. Dreyfus. 1,719,173; July 2.
- Knitting. V. Lombardi. 1,728,293; Sept. 17.
- Knitting device. M. Hagiwara. 1,718,140; June 18.
- Knitting frames, Jack sinker of special shape for. F. Tauscher. 1,738,851; Dec. 10.
- Knitting full-fashioned hosiery. E. Flach. 1,721,211; July 16.
- Knitting machine. E. U. Ames. 1,697,488-90; Jan. 1.
- Knitting machine. E. U. Ames. 1,722,989; Aug. 6.
- Knitting machine. W. W. Burson. 1,717,660; June 18.
- Knitting machine. W. W. Burson. 1,721,247; July 16.
- Knitting machine. W. W. Burson. 1,728,661; Sept. 17.
- Knitting machine. C. Hilscher. 1,719,839; July 9.
- Knitting machine. J. Jones and W. Derwin. 1,726,568; Sept. 3.
- Knitting machine. A. Kipnis. 1,742,036; Dec. 31.
- Knitting machine. M. Kühne. 1,718,295; June 25.
- Knitting machine. M. Lerner. 1,721,824; July 23.
- Knitting machine. G. W. Lindley. 1,725,150; Aug. 20.
- Knitting machine. V. Lombardi. 1,728,295; Sept. 17.
- Knitting machine. V. Lombardi. 1,737,597-8; Dec. 3.
- Knitting machine. A. J. Mankin. 1,706,306; Mar. 19.
- Knitting machine. H. W. Matthews. 1,716,344; June 4.
- Knitting machine. M. C. Miller. 1,710,027; Apr. 23.
- Knitting machine. M. C. Miller. 1,719,121; July 2.
- Knitting machine. J. E. Moore. 1,704,804; Mar. 12.
- Knitting machine. G. Murphy. 1,728,299; Sept. 17.
- Knitting machine. A. C. Nebel. 1,742,048; Dec. 31.
- Knitting machine. G. Nobst and E. Ulbricht. 1,720,606; July 9.
- Knitting machine. H. Oberländer. 1,737,197; Nov. 26.
- Knitting machine. E. E. Paquette. 1,723,881; Aug. 6.
- Knitting machine. W. S. Parker. 1,711,649; May 7.
- Knitting machine. N. J. Perry. 1,702,839; Feb. 19.
- Knitting machine. M. Schéni. 1,726,456; Aug. 27.
- Knitting machine. J. H. Shaffer and P. Caparelli. 1,712,052; May 7.
- Knitting machine. E. Wildt and H. H. Holmes. 1,699,320-1; Jan. 15.
- Knitting machine and the like. F. Nelson. 1,740,618; Dec. 24.
- Knitting machine and the production of fabrics thereon, Warp or straight-bar. W. Coombes. 1,737,218; Nov. 26.
- Knitting machine, Automatic circular. R. Fisher. 1,736,742; Nov. 19.
- Knitting machine, Circular. P. A. Bentley. 1,713,736; May 21.
- Knitting machine, Circular. P. A. Bentley and J. W. Goddard. 1,712,726; May 14.
- Knitting machine, Circular. T. S. Grieve. 1,716,691; June 11.
- Knitting machine, Circular. H. E. Houseman. 1,701,851; Feb. 12.
- Knitting machine, Circular. H. E. Houseman. 1,722,275; Aug. 20.
- Knitting machine, Circular. F. Israelson. 1,718,648; June 25.
- Knitting machine, Circular. A. E. Page. 1,697,081; Jan. 1.
- Knitting Machine for. P. A. Bentley. 1,703,607; Feb. 26.
- Knitting machine, Warp. T. G. Vorck. 1,706,426; Mar. 26.
- Knitting machines, Attachment for. E. C. Lochhead. 1,727,171; Sept. 3.
- Knitting machines, Attachment for flat. R. E. Schletter. 1,713,628; May 21.
- Knitting machines, Cam head for. W. L. Smith, Jr. 1,698,004; Jan. 8.
- Knitting machines, Dial-locking means for. A. E. Page. 1,697,658; Jan. 1.
- Knitting machines, Drive for full-fashioned. M. Zwicky and E. Richter. 1,706,645; Mar. 26.
- Knitting machines, Pattern-control means for. R. W. Scott and A. E. Page. 1,713,353; May 14.
- Knitting machines, Safety brake stop for. M. Zwicky. 1,711,301; Apr. 30.
- Knitting machines, Slack-preventing guide device for. M. Zwicky. 1,701,169; Feb. 5.
- Knitting machines, Splicing attachment for. A. E. Page. 1,726,410; Aug. 27.
- Knitting machines, Splicing mechanism for. G. P. Bosworth. 1,698,211; Jan. 8.
- Knitting machines, Stop for preventing rebound of carrier rods of full-fashioned. K. Howie. 1,732,751; Oct. 22.
- Knitting machines, Stop motion for. R. Breyer. 1,705,235; Mar. 12.
- Knitting machines, Stop motion for. A. Crawford. 1,699,390; Jan. 15.
- Knitting machines, Stopping mechanism for. J. Regan. 1,722,860; July 30.
- Knitting machines, Striping attachment for. A. E. Page. 1,714,400; May 21.
- Knitting machines, Take-up for. W. L. Smith, Jr. 1,721,532; July 23.
- Knitting machines, Take-up mechanism for. W. L. Lengel. 1,697,193; Jan. 1.
- Knitting machines, Tension device for. W. T. Barratt. 1,736,387; Nov. 19.
- Knitting machines, Thread-feeding mechanism for. G. Murphy and W. A. Simond. 1,728,300; Sept. 17.
- Knitting machines, Thread-knotting mechanism for. W. Larkin. 1,726,396; Aug. 27.
- Knitting machines, Yarn anchor for. I. Rottenberg. 1,727,905; Sept. 10.
- Knitting machines, Yarn-feeding means for. F. E. Jones. 1,733,665; Oct. 29.
- Knitting neckties. N. S. Mahaffy. 1,716,647; June 11.
- Knitting on transferred fabric sections. A. E. Page. 1,711,028; Apr. 30.
- Knitting tubular fabric having closed ends, Method and machine for. M. C. Miller. 1,738,787; Dec. 10.
- Knives, Combination guard, aligning, and clamping device for cutting. H. Bosch, Jr. 1,730,718; Oct. 8.
- Knives, Making slicing. J. L. Wellington. 1,728,192; Sept. 17.
- Knob. G. L. Hinman. 1,701,776; Feb. 12.
- Knob cutter. E. M. Karr and J. A. Boucher. 1,723,700; Aug. 6.
- Knob, Door. A. F. Hazelwood. 1,734,520; Nov. 5.
- Knob for food-cabinet lids. J. R. Replogle. 1,733,755; Oct. 29.
- Knob, Gear-shift-lever. J. B. La Pierre. Des. 77,604; Jan. 29.
- Knob-securing device, Glass-. C. H. Overmeyer. 1,708,735; Apr. 9.
- Knob, Steering. M. L. Wilson. 1,729,733; Oct. 1.
- Knobs, Attaching. R. K. Winning. 1,714,708; May 28.
- Knockdown box. M. R. Kondolf. 1,725,524; Aug. 20.
- Knock-out for electric junction boxes, switch boxes, etc. S. Hammer. 1,721,593; July 23.
- Knock-out for switch boxes and the like. C. Newman and E. G. Appleton. 1,709,187; Apr. 16.
- Knotter. B. E. Byrd. 1,714,946; May 28.
- Knotter. B. E. Byrd. 1,720,817; July 16.
- Knot-tying mechanism. D. Gravel. 1,719,883; July 9.
- Kratometer. H. Clement. 1,738,986; Dec. 10.
- Label. F. H. Coombs. 1,735,894; Nov. 19.
- Label-attaching device. A. S. Partridge. 1,729,961; Oct. 1.
- Label for tubular cloth rolls, End. J. W. Little. 1,738,378; Dec. 3.
- Label mounting for stamps. A. K. Smith, Jr. 1,740,630; Dec. 24.
- Label protector. P. Joffe. 1,705,407; Mar. 12.
- Labeling and stamping machine. L. Fischer. 1,698,585; Jan. 8.
- Labeling bottles. A. R. Kuhn and J. J. Furlong. 1,725,199; Aug. 20.
- Labeling machine. W. Apfelbaum. 1,711,257; Apr. 30.
- Labeling machine. E. Ermold. 1,724,700; Aug. 13.
- Labeling machine. H. E. Townsend. 1,719,406; July 2.
- Labeling machine, Can-. L. Biggs. 1,705,355; Mar. 12.
- Labeling-machine discharge and edge-sticking attachment. J. E. Johnson and C. H. Oslund. 1,716,445; June 11.
- Labeling packages and machine therefor. J. A. Cereghino. 1,722,240; July 23.
- Labels and the like on wooden containers and the like, Forming. W. C. Hart. 1,707,855; Apr. 2.
- Laboratory chemistry table. C. W. Gray, M. J. Burdick, M. S. Moore, and C. W. Sandifur. Des. 78,285; Apr. 16.
- Laboratory heater. H. Goldberg. 1,702,078; Feb. 12.
- Laboratory mill. S. W. Wiley. 1,706,643; Mar. 26.
- Lace. B. A. Ball. Des. 78,429; May 7.
- Lace. H. B. Barnum. Des. 77,726; Feb. 19.
- Lace. G. H. Clarke. Des. 78,337-8; Apr. 23.



- Lace. S. H. Page. Des. 78,309; Apr. 16.  
 Lace. S. H. Page. Des. 78,648-50; May 28.  
 Lace. G. Radford. Des. 78,480; May 7.  
 Lace. J. H. Worrall. Des. 78,911; July 2.  
 Lace braid, Manufacturing elastic. O. E. Huber  
 1,717,215; June 11.  
 Lace edging, Embroidered. H. Schwarber. Des. 78,539;  
 May 14.  
 Lace edging, Embroidered. H. Schwarber. Des. 78,840;  
 June 25.  
 Lace, Embroidered. S. M. Winkler. Des. 79,542; Oct. 1.  
 Lace, Embroidered. S. M. Winkler. Des. 79,776; Oct. 29.  
 Lace machine, Twist-. F. Noyer and P. Pilard. 1,735,651;  
 Nov. 12.  
 Lace medallion, Embroidered. H. Schwarber. Des.  
 79,104-5; July 30.  
 Lace medallion, Embroidered. H. Schwarber. Des.  
 79,941; Nov. 19.  
 Lacing and like articles and making the same. F. W. Mer-  
 rick. 1,734,738; Nov. 5.  
 Lacing device for shoes and boots. A. E. Winlow.  
 1,697,893; Jan. 8.  
 Lacing for balls. A. G. Koegel. 1,699,666; Jan. 22.  
 Lacing for shoes and other articles. H. Grosser. 1,740,506;  
 Dec. 24.  
 Lacing tip. J. R. Dennis. 1,730,809; Oct. 8.  
 Laces, Tipping. C. A. Matson. 1,724,212; Aug. 13.  
 Lacquer. J. G. Davidson. 1,731,333; Oct. 15.  
 Ladder. M. Bauer. 1,731,234; Oct. 15.  
 Ladder. P. J. Bode. 1,735,992; Nov. 19.  
 Ladder. M. K. Carr. 1,728,854; Sept. 17.  
 Ladder. J. F. Czischke. 1,729,033; Sept. 24.  
 Ladder. C. L. Faulkenberry. 1,722,844; July 30.  
 Ladder. R. M. Marlatt. 1,727,211; Sept. 3.  
 Ladder. E. S. Mowry. 1,725,367; Aug. 20.  
 Ladder. J. W. Pease. 1,729,963; Oct. 1.  
 Ladder. W. H. Sauvage. 1,714,451; May 21.  
 Ladder and adjusting mechanism. F. A. Lundahl.  
 1,711,357-8; Apr. 30.  
 Ladder and auxiliary toilet seat, Foldable child's combined.  
 U. A. Keppinger. 1,737,163; Nov. 26.  
 Ladder attachment. E. G. Brandt. 1,705,000; Mar. 12.  
 Ladder attachment. P. McCormick. 1,710,026; Apr. 23.  
 Ladder attachment for fire hose. J. B. Callaghan and W.  
 H. Monaghan. 1,726,649; Sept. 3.  
 Ladder, Attic. H. W. Charles. 1,724,824; Aug. 13.  
 Ladder brace. C. M. and P. C. Monjar. 1,722,534; July  
 30.  
 Ladder clamp. J. E. Allen and H. G. Schwoeppel.  
 1,717,486; June 18.  
 Ladder, Collapsible. H. K. Smith. 1,712,942; May 14.  
 Ladder, Combination. E. Cardarelli. 1,723,540; Aug. 6.  
 Ladder construction, Truss-. R. S. Bolger. 1,735,418;  
 Nov. 12.  
 Ladder, Extension. P. W. Roberts. 1,701,123; Feb. 5.  
 Ladder, Folding. P. Pirsch. 1,719,997; July 9.  
 Ladder scaffold bracket. J. B. Wardle. 1,701,347; Feb. 5.  
 Ladder step, Portable. T. W. Williams. 1,718,885; June  
 25.  
 Ladder, Telescoping. R. O. Clark. 1,731,611; Oct. 15.  
 Ladders, Adjustable foot support for. M. F. Enke.  
 1,733,338; Oct. 29.  
 Ladders, Extension foot for. M. L. Bratt. 1,718,891;  
 June 25.  
 Ladle. A. J. Messler. 1,726,911; Sept. 3.  
 Ladle discharger. G. H. J. Eiser. 1,742,065; Dec. 31.  
 Ladle stopper, Bayonet-joint. C. C. Bacon. 1,719,795;  
 July 2.  
 Lambrequin for cotton gins. J. Behle. 1,714,939; May 28.  
 Laminated article. R. S. Bolger. 1,723,400; Aug. 6.  
 Laminated curb. W. Ernst and H. F. MacMillan.  
 1,700,656; Jan. 29.  
 Laminated glass, Weatherproof. L. Bartelstone. 1,705,631;  
 Mar. 19.  
 Laminated material for use in artificial dentures. S. W.  
 Wilding. 1,718,019; June 18.  
 Laminated product. H. P. Mills. 1,730,586; Oct. 8.  
 Lamp. A. Aloisi. Des. 79,781; Nov. 5.  
 Lamp. F. L. Bamford. 1,714,755; May 28.  
 Lamp. L. Blackmore. 1,697,804; Jan. 1.  
 Lamp. P. Cricchio. Des. 78,967; July 16.  
 Lamp. H. O. Czech. Des. 78,505; May 14.  
 Lamp. H. B. Donley. 1,697,056; Jan. 1.  
 Lamp. S. G. Edmondson. Des. 79,511; Oct. 1.  
 Lamp. F. J. Estes. Des. 78,998; July 16.  
 Lamp. G. Graff. 1,721,903; July 23.  
 Lamp. G. Graff. 1,736,496; Nov. 19.  
 Lamp. D. B. Hanna. Des. 79,964; Nov. 26.  
 Lamp. C. T. Joslin. Des. 79,086; July 30.  
 Lamp. P. Kornan. Des. 78,578; May 21.  
 Lamp. M. Kornblum. Des. 79,558; Oct. 8.  
 Lamp. M. Kornblum. Des. 79,726-7; Oct. 29.  
 Lamp. M. Kornblum. Des. 80,126; Dec. 17.  
 Lamp. G. I. Lewis. 1,714,429; May 21.  
 Lamp. R. G. F. Loewy. Des. 78,640; May 28.  
 Lamp. C. Mains and F. Batteiger. 1,716,967; June 11.  
 Lamp. E. B. Neil. 1,705,065; Mar. 12.  
 Lamp. J. F. Nenzel. Re17,545; Dec. 31.  
 Lamp. L. E. Perkins. 1,733,626; Oct. 29.  
 Lamp. H. Plaut. 1,719,401; July 2.  
 Lamp. V. Raffaelli. Des. 80,050; Dec. 3.  
 Lamp. C. E. Rubino. Des. 78,482; May 7.  
 Lamp. H. Shapiro. Des. 79,533; Oct. 1.  
 Lamp. E. E. Slick. 1,717,525; June 18.  
 Lamp. G. W. Toeller. Des. 80,249; Dec. 31.  
 Lamp. M. C. Turner. 1,722,360; July 30.  
 Lamp. A. J. Utz. 1,721,422; July 16.  
 Lamp. A. von Frankenberg. Des. 77,866; Feb. 26.  
 Lamp. A. von Frankenberg. Des. 78,174; Apr. 2.  
 Lamp. A. von Frankenberg. Des. 78,417-19; Apr. 30.  
 Lamp. A. von Frankenberg. Des. 78,908; July 2.  
 Lamp. A. von Frankenberg. Des. 78,992; July 16.  
 Lamp. A. von Frankenberg. Des. 80,203; Dec. 24.  
 Lamp. J. Zweig. Des. 78,956; July 9.  
 Lamp, Acetylene. B. Williamson. 1,716,809; June 11.  
 Lamp adapter for oil lamps, Electric. L. S. Brach.  
 1,702,491; Feb. 19.  
 Lamp-adjusting apparatus. G. H. Coulter. 1,735,451;  
 Nov. 12.  
 Lamp-adjusting device. D. J. McCarthy. 1,716,529;  
 June 11.  
 Lamp and clockcase, Combined. L. Zweig. Des. 79,580;  
 Oct. 8.  
 Lamp and guard handle. F. C. Kellath. 1,700,167;  
 Jan. 29.  
 Lamp and filament-activity test for repeaters, Ballast.  
 D. K. Gannett. 1,737,652; Dec. 3.  
 Lamp and lens, Marine. H. W. Armstrong. 1,723,979;  
 Aug. 6.  
 Lamp and loud-speaker, Combination floor. H. C. Kretz.  
 79,520; Oct. 1.  
 Lamp and maintaining a uniform length of arc, Arc.  
 C. S. Ashcraft. 1,721,845; July 23.  
 Lamp and pencil holder, Combined electric reading.  
 R. F. Post. Des. 79,440; Sept. 17.  
 Lamp and perfume holder therefor, Electric. W. A. Wins-  
 boro. 1,732,707; Oct. 22.  
 Lamp and producing the same, Incandescent electric. A. L.  
 Becket. 1,716,912; June 11.  
 Lamp and radio set, Combined floor. H. T. Piccolo.  
 1,721,488; July 16.  
 Lamp and shade adjuster, Electric. F. A. Howe, jr., and  
 W. Hinchliffe. 1,714,369; May 21.  
 Lamp and smoker's stand, Combination. M. Lotti. Des.  
 77,700; Feb. 12.  
 Lamp and telephone cabinet, Combined table. T. F.  
 Murphy. 1,702,614; Feb. 19.  
 Lamp, Antiglare motor-vehicle. J. F. Farmer. 1,724,701;  
 Aug. 13.  
 Lamp apparatus, Arc-. N. E. Goodrich. 1,707,004;  
 Mar. 26.  
 Lamp, Arc. H. L. M. J. Bénard. 1,715,272; May 28.  
 Lamp arm, Bridge-. J. B. Salterini. Des. 78,532-3;  
 May 14.  
 Lamp, ash tray, and lighter, Combined. C. W. Hopes.  
 Des. 79,656; Oct. 22.  
 Lamp-attaching device for miners' caps. W. Raster.  
 1,739,916; Dec. 17.  
 Lamp, Automatic projector. E. A. Sperry. 1,713,929;  
 May 21.  
 Lamp, Automobile. W. J. Roehl and J. H. Drohan.  
 1,730,592; Oct. 8.  
 Lamp, Automobile body. J. F. McMahon. Des. 79,298;  
 Aug. 27.  
 Lamp, Automobile head. I. Winter. 1,715,527; June 4.  
 Lamp, Automobile signal. R. Beringer. 1,697,803; Jan. 1.  
 Lamp, Automobile signal. E. A. Laurent. Des. 80,237;  
 Dec. 31.  
 Lamp, Automobile signal. G. P. Ohlgart. 1,728,005;  
 Sept. 10.  
 Lamp, Auxiliary. L. D. Cammann. 1,738,985; Dec. 10.  
 Lamp base. D. L. Bean. Des. 77,729-33; Feb. 19.  
 Lamp base. K. A. Bernholtz. Des. 78,873; July 2.  
 Lamp base. M. B. Bowen. Des. 78,613; May 28.  
 Lamp base. W. J. Bray. Des. 79,496; Oct. 1.  
 Lamp base. F. Collins. Des. 78,340; Apr. 23.  
 Lamp base. F. Collins. Des. 78,344; Apr. 23.  
 Lamp base. F. Collins. Des. 80,020; Dec. 3.  
 Lamp base. S. W. Barber. Des. 78,156; Apr. 2.  
 Lamp base. E. Klopstein. Des. 77,841; Feb. 26.  
 Lamp base. H. B. Meyer. Des. 78,644; May 28.  
 Lamp base. G. L. Miller. Des. 80,239; Dec. 31.  
 Lamp base. F. L. Rath. Des. 77,788; Feb. 19.  
 Lamp base. F. L. Rath. Des. 79,386; Sept. 10.  
 Lamp base or analogous article. P. Silberhartz. Des.  
 78,491; May 7.  
 Lamp base or article of analogous nature. P. Cricchio.  
 Des. 78,449-50; May 7.  
 Lamp base or similar article. F. M. Poritz. Des.  
 79,436-9; Sept. 17.  
 Lamp, Battery hand. J. T. Druftva. 1,707,431; Apr. 2.  
 Lamp, Battery hand. J. S. Zook. Des. 78,186; Apr. 2.  
 Lamp, Battery hand. J. S. Zook. 1,701,093; Feb. 5.  
 Lamp body and door fastening. F. W. C. Neuner.  
 1,729,892; Oct. 1.  
 Lamp body, Floor-. C. F. Stallbaum. Des. 78,170; Apr. 2.  
 Lamp bracket. M. F. Deach. 1,714,002; May 21.  
 Lamp bracket, Interchangeable. A. A. Smith. 1,711,065;  
 Apr. 30.  
 Lamp, Bridge. M. Boltuch. Des. 79,124; Aug. 6.  
 Lamp, Bridge. J. B. Salterini. Des. 78,534-6; May 14.  
 Lamp, Bridge. J. B. Salterini. Des. 79,947-8; Nov. 19.  
 Lamp, Built-in bed. J. B. and J. F. Von Canon. 1,739,337;  
 Dec. 10.  
 Lamp bulbs, Dry coating. D. S. Gustin. 1,698,845;  
 Jan. 15.  
 Lamp, Carbide. J. M. Jones. 1,714,912; May 28.  
 Lamp, Casket. G. H. Endsley. 1,701,447; Feb. 5.  
 Lamp cathode with rotary flame and stationary crater,  
 Electric arc. R. Dubois. 1,729,263; Sept. 24.



- Lamp, Classification. J. A. Amos. 1,699,322; Jan. 15.  
 Lamp construction. E. C. Albright. 1,714,289; May 21.  
 Lamp construction. S. W. Hyatt. 1,724,201; Aug. 13.  
 Lamp, Desk. H. A. Bauer and G. W. Cassidy. Des. 78,724; June 18.  
 Lamp, Desk. J. T. Jaret. Des. 79,139; Aug. 6.  
 Lamp, Desk. K. Kipp. Des. 78,211; Apr. 9.  
 Lamp, Electric. W. Dawson. 1,728,478; Sept. 17.  
 Lamp, Electric. H. A. Douglas. 1,733,368; Oct. 29.  
 Lamp, Electric. G. R. Fonda. 1,721,384; July 16.  
 Lamp, Electric. L. O. Parker and L. C. Shippy. 1,712,934; May 14.  
 Lamp, Electric. Z. Riddle. 1,722,640; July 30.  
 Lamp, Electric. J. F. Whelan. 1,703,698; Feb. 26.  
 Lamp, Electric-arc. L. S. Kubiac. 1,698,918-9; Jan. 15.  
 Lamp, Electric-arc. L. S. Kubiac. 1,702,638; Feb. 19.  
 Lamp, Electric-arc. A. G. Saurwein. 80,244; Dec. 31.  
 Lamp, Electric-arc. W. C. Spieth. Des. 79,859; Nov. 5.  
 Lamp, Electric incandescent. P. O. Cartun. 1,723,920; Aug. 6.  
 Lamp, Electric incandescent. F. Eckhardt and M. Hohnkamp. 1,713,752; May 21.  
 Lamp, Electric mine. J. G. Daloz. 1,736,997; Nov. 26.  
 Lamp, Electric signal. H. W. Jones and R. R. Smith. 1,732,970; Oct. 22.  
 Lamp element and making same, Therapeutic. R. H. Maxson. 1,697,606; Jan. 1.  
 Lamp equipment, Arc-. C. A. B. Halvorson, jr. 1,718,928; June 25.  
 Lamp, Eucharistic. L. F. Murphy. Des. 77,650; Feb. 5.  
 Lamp filament. M. Pirani. 1,726,365; Aug. 27.  
 Lamp, Filament incandescent. R. N. Falge. 1,722,180; July 23.  
 Lamp fixture. W. R. Chamberlain. Des. 78,006; Mar. 19.  
 Lamp fixture. C. A. B. Halvorson. Des. 79,189; Aug. 13.  
 Lamp fixture, Adjustable. M. F. Deach. 1,714,003; May 21.  
 Lamp fixture, Electric-. W. H. Yates. 1,741,965; Dec. 31.  
 Lamp, Flame safety. H. S. George. 1,702,048; Feb. 12.  
 Lamp, Flash. H. T. Hipwell. 1,738,725; Dec. 10.  
 Lamp, Floor. P. I. Ansoreg. Des. 78,557; May 21.  
 Lamp, Floor. C. M. Jones. 1,719,013; July 2.  
 Lamp, Floor. N. Lockiear. Des. 77,699; Feb. 12.  
 Lamp, Floor. J. B. Salterini. Des. 79,945-6; Nov. 19.  
 Lamp, Floor. O. F. Seeger. Des. 79,853; Nov. 5.  
 Lamp, Floor. J. Di Silvestro. Des. 79,638-43; Oct. 22.  
 Lamp, Floor. J. Di Silvestro. Des. 80,075; Dec. 10.  
 Lamp for boilers. A. M. Sutton. 1,702,179; Feb. 12.  
 Lamp for indicating fire damp, Benzene safety. H. Fleissner. 1,716,374; June 11.  
 Lamp for motor vehicles, Signal. H. B. Donley. 1,702,429; Feb. 19.  
 Lamp for use in mines, Electric. W. M. Thornton. 1,727,185; Sept. 3.  
 Lamp for vehicles. J. D. Macrae, A. Macdonald and K. A. Mocræ. 1,721,347; July 16.  
 Lamp for vehicles, Pivoting head. P. F. Gauchot. 1,709,784; Apr. 16.  
 Lamp frame. M. B. Hastings. 1,697,005; Jan. 1.  
 Lamp, Gaseous electric discharge. F. Schaefer. 1,739,561; Dec. 17.  
 Lamp globe. C. A. B. Halvorson. Des. 80,225; Dec. 31.  
 Lamp globe. A. J. D. Ohm. Des. 79,410; Sept. 10.  
 Lamp guard and holder, Security. F. W. Erickson. 1,711,993; May 7.  
 Lamp guard, Electric. A. F. Saylor. 1,703,599; Feb. 26.  
 Lamp hanger. A. J. Thompson. 1,698,418; Jan. 8.  
 Lamp-hanger structure. A. J. Thompson. 1,736,512; Nov. 19.  
 Lamp, Head. W. J. Cameron. 1,705,465; Mar. 19.  
 Lamp, Head. F. G. Engle. 1,704,467; Mar. 5.  
 Lamp, Head. O. Wappler. 1,741,264; Dec. 31.  
 Lamp, Head. F. P. Webster. 1,721,611; July 23.  
 Lamp, High-intensity flaming-arc. P. R. Bassett. 1,711,983; May 7.  
 Lamp, High-intensity induction. L. J. Buttolph. 1,698,691; Jan. 8.  
 Lamp hood for electric lamps. W. L. Laib. 1,739,679; Dec. 17.  
 Lamp, Illuminated aquarium. C. Emma. 1,723,272; Aug. 6.  
 Lamp, Incandescent. P. O. Cartun. 1,722,176; July 23.  
 Lamp, Incandescent. F. P. Hoffman. 1,712,996; May 14.  
 Lamp, Incandescent. A. Sanford. Des. 79,509; Aug. 27.  
 Lamp, Incandescent. S. Turner. 1,715,580; June 4.  
 Lamp, Incandescent. L. J. Voorhees. 1,712,368; May 7.  
 Lamp, Incandescent electric. I. H. Van Horn and W. A. Pipkin. 1,717,283; June 11.  
 Lamp lock, Safety. R. A. Moore. 1,710,373; Apr. 23.  
 Lamp-making machine. W. W. Loebe and W. Ledig. 1,707,675; Apr. 2.  
 Lamp, Marine. H. W. Armstrong. 1,733,981; Oct. 29.  
 Lamp, Medical electric. W. H. Clifford. 1,729,609; Oct. 1.  
 Lamp, Mercury. H. Nagaoka, T. Asada, and T. Machida. 1,740,030; Dec. 17.  
 Lamp, Metal vapor. G. P. Beaudry. 1,736,642; Nov. 19.  
 Lamp, Microscope. R. R. Rife. 1,727,618; Sept. 10.  
 Lamp, Microscopical. G. Spindler. Des. 77,374; Jan. 1.  
 Lamp mount, Incandescent-. P. A. Campbell. 1,740,391; Dec. 17.  
 Lamp mounting. F. W. C. Neuner. 1,706,459; Mar. 26.  
 Lamp, Night. T. A. De Vilbiss. Des. 78,272-3; Apr. 16.  
 Lamp, Night. I. Gonyk. 1,728,055; Sept. 10.  
 Lamp, Night. C. J. Schneider. 1,719,198; July 2.  
 Lamp or analogous article. P. Cricchio. Des. 79,955; Nov. 26.  
 Lamp or analogous article. P. Cricchio. Des. 80,167; Dec. 24.  
 Lamp or analogous article. J. F. Palmborg. Des. 79,529; Oct. 1.  
 Lamp or similar article. A. von Frankenberg. Des. 79,678; Oct. 22.  
 Lamp or similar article. A. von Frankenberg. Des. 80,205; Dec. 24.  
 Lamp or similar article, Electric. A. von Frankenberg. Des. 80,060-1; Dec. 3.  
 Lamp or similar article, Electric. A. von Frankenberg. Des. 80,152-3; Dec. 17.  
 Lamp or stove of the pressure type, Vapor. T. Terrell, jr. 1,720,932; July 16.  
 Lamp-pedestal arm. F. Collins. Des. 78,339; Apr. 23.  
 Lamp-pedestal arm. F. Collins. Des. 78,341-3; Apr. 23.  
 Lamp, Pocket, cycle, and other. F. Eckhardt and M. Hohnkamp. 1,700,673; Jan. 29.  
 Lamp, Portable. A. J. Carmichael and O. Balzano. 1,719,098; July 2.  
 Lamp, Portable. I. Rosenblatt. Des. 79,257; Aug. 20.  
 Lamp, Portable electric. A. J. Carmichael. Des. 78,560; May 21.  
 Lamp, Portable electric. F. E. Greene. Des. 77,405-6; Jan. 8.  
 Lamp, Portable electric. R. H. Olley. 1,735,295; Nov. 12.  
 Lamp, Portable electric. P. Rathmann. 1,726,453; Aug. 27.  
 Lamp, Portable electric hand. P. R. Puckett. 1,735,545; Nov. 12.  
 Lamp, Portable electric hand. H. F. Reichenbach. 1,697,405; Jan. 1.  
 Lamp, Portable electric utility. F. H., A. B., and H. T. Bussmann. 1,716,516; June 11.  
 Lamp, Portable reading. H. M. Peters. Des. 77,856; Feb. 26.  
 Lamp, Portable reading. H. M. Peters. Des. 77,870; Feb. 26.  
 Lamp-post with illuminated street signs. T. R. Willwerscheid. 1,740,054; Dec. 17.  
 Lamp, Reading. W. A. Dorey. 1,699,100; Jan. 15.  
 Lamp, Reflex-action motor-vehicle. J. F. Farmer. 1,700,927; Feb. 5.  
 Lamp shade. W. R. Eha. 1,701,149; Feb. 5.  
 Lamp-shade bridge, Electric-. T. Hutnikow. Des. 77,961; Mar. 12.  
 Lamp-shade-frame center element. K. C. Berger. Rel. 1,7345; July 2.  
 Lamp-shade, globe, and holder for conduit-outlet boxes. R. H. Olley. 1,718,975; July 2.  
 Lamp-shade holder, Electric-. G. E. Villaret. Des. 78,065; Mar. 19.  
 Lamp shades Metal lacing for. F. Collins. 1,723,135; Aug. 6.  
 Lamp, Shadowless. A. L. Arenberg. Des. 78,602; May 28.  
 Lamp shaft. E. Klopstein. Des. 77,840; Feb. 26.  
 Lamp, Signal. P. P. Basterreix. 1,733,047; Oct. 22.  
 Lamp, Signal. A. H. Handlan. 1,735,572; Nov. 12.  
 Lamp, Signal. B. J. Keating. 1,709,855; Apr. 23.  
 Lamp signal, Vehicle. R. H. Baur. 1,717,544; June 18.  
 Lamp socket, Electric-. L. Mayer. 1,717,344; June 11.  
 Lamp socket, Electric-. E. C. White. 1,727,148; Sept. 3.  
 Lamp stand. F. Booth. Des. 78,189; Apr. 9.  
 Lamp stand. C. Lauria. Des. 79,090; July 30.  
 Lamp-stand base or similar article. C. H. Appleman. Des. 79,689; Oct. 29.  
 Lamp stand, Portable. G. Potstada. 1,710,069; Apr. 23.  
 Lamp standard. C. E. Haas. Des. 78,690; June 4.  
 Lamp standard. N. Kopp. Des. 77,966; Mar. 12.  
 Lamp standard. H. H. Wolter. Des. 79,493; Sept. 24.  
 Lamp, stop signal, and reverse light, Combined tail. C. A. Michel. 1,699,800; Jan. 22.  
 Lamp, Street. W. H. Carson. Des. 78,965; July 16.  
 Lamp, Supported and braced crypt. V. G. Pinaglia. Des. 80,048; Dec. 3.  
 Lamp, Surface. K. W. Miller. 1,724,298; Aug. 13.  
 Lamp, Table. J. A. Campo. 1,721,176; July 16.  
 Lamp, Table. V. S. Pearlman. 1,699,710; Jan. 22.  
 Lamp, Therapeutic. F. A. Anderson. 1,697,450; Jan. 1.  
 Lamp, Therapeutic. F. A. Anderson. 1,729,239; Sept. 24.  
 Lamp, Therapeutic. W. H. Clifford. 1,729,647; Oct. 1.  
 Lamp, Therapeutic. N. E. Goodrich. 1,735,679; Nov. 12.  
 Lamp, Therapeutic. R. H. Maxson. 1,705,300; Mar. 12.  
 Lamp, Therapeutic. F. W. Robinson and W. J. Lemann. 1,704,516; Mar. 5.  
 Lamp, Therapeutic. F. Wetzl and G. Langen. Des. 78,072; Mar. 19.  
 Lamp, Train-signal. F. D. Spear. 1,733,103; Oct. 22.  
 Lamp, Trouble and inspection. A. C. De Lorme. 1,705,239; Mar. 12.  
 Lamp, Two-flame arc. E. J. Schaub. 1,704,904; Mar. 12.  
 Lamp unit, Mobile therapeutic-. F. A. Anderson and R. H. Maxson. 1,729,238; Sept. 24.  
 Lamp unit, Therapeutic-. R. H. Maxson. 1,697,607; Jan. 1.  
 Lamp, Vehicle. A. Graves. 1,716,048; June 4.  
 Lamp, Vehicle. A. E. Huff. 1,733,540; Oct. 29.  
 Lamp, Vehicle. H. L. Wilson. 1,713,110; May 14.  
 Lamp, Vehicle signal. H. W. Wilson. 1,740,637; Dec. 24.  
 Lamp, Wind-deflector signal. E. Holmstrom. 1,726,895; Sept. 3.



- Lamp with inclosed arc, Alternating-current arc. P. Queisser. 1,697,021; Jan. 1.
- Lamp, Wrist driving signal. J. E. Nash. 1,740,778; Dec. 24.
- Lamps and similar articles, Method and machine for manufacturing incandescent. K. Mey. 1,710,428; Apr. 23.
- Lamps and similar articles, Method of and apparatus for making incandescent. R. F. Strickland. 1,722,161; July 23.
- Lamps and similar articles, Method of and apparatus for sealing incandescent. H. Remané. 1,701,388; Feb. 5.
- Lamps and the like, Manufacture of electric incandescent. J. J. Higgins. 1,706,882; Mar. 26.
- Lamps, Apparatus for making incandescent. W. R. Burrows. 1,736,766; Nov. 19.
- Lamps, Apparatus for renewing filaments in incandescent. C. Tourné. 1,728,813; Sept. 17.
- Lamps, Arm for bridge. H. T. Scheidacker. Des. 77,436; Jan. 8.
- Lamps, Arm for bridge. H. T. Scheidacker. Des. 77,652-3; Feb. 5.
- Lamps, Attaching device for miners'. A. Dorsey. 1,725,182; Aug. 20.
- Lamps, Automatic insect trap using. S. Hitosi. 1,701,674; Feb. 12.
- Lamps, Closure fastener and reflector seal for. W. L. Mappes. 1,731,019; Oct. 8.
- Lamps, Construction of incandescent. F. Ray. 1,701,541; Feb. 12.
- Lamps, Focusing means for vehicle head. H. B. Winchell. 1,710,599; Apr. 23.
- Lamps, Husk for incandescent. C. W. Logan. Des. 79,036; July 23.
- Lamps, Making incandescent. W. R. Burrows. 1,736,767; Nov. 19.
- Lamps, Manufacturing incandescent. Y. Sakakura. 1,697,780; Jan. 1.
- Lamps of motor vehicles, Head. W. G. Yardley. 1,709,423; Apr. 16.
- Lamps or analogous articles, Body for. J. Grossman. Des. 79,803-9; Nov. 5.
- Lamps, Regulating device for arc. F. Meyer. 1,723,627; Aug. 6.
- Landing light, Airplane. H. A. Hicks. 1,724,482; Aug. 13.
- Landing stage. E. Pitou. 1,740,958; Dec. 24.
- Land packer. E. A. Johnston. 1,705,294; Mar. 12.
- Land roller. H. M. Killik. 1,699,437; Jan. 15.
- Landscape. N. Speirs. 1,735,801; Nov. 12.
- Landlike compositions, Manufacturing. R. Hauschka. 1,728,205; Sept. 17.
- Lantern. E. G. Brinkmeyer and G. H. Rolfes. 1,716,514; June 11.
- Lantern. B. I. Downing. 1,699,099; Jan. 15.
- Lantern. J. R. Gammeter. 1,700,931; Feb. 5.
- Lantern. A. H. Handlan. 1,701,182; Feb. 5.
- Lantern. C. H. Kelsea. 1,732,407; Oct. 22.
- Lantern. W. T. Kettering. Des. 80,083; Dec. 10.
- Lantern. D. E. Lindsay. Des. 77,607-8; Jan. 29.
- Lantern. L. E. Perkins. 1,733,625; Oct. 29.
- Lantern. J. J. Ramsey. 1,705,877; Mar. 19.
- Lantern dome. S. E. Turk. 1,698,662; Jan. 8.
- Lantern, Electric. P. J. Freeman. 1,719,050; July 2.
- Lantern, Electric. T. N. Hicks. 1,698,912; Jan. 15.
- Lantern, Electric. W. E. Jackson. 1,737,968; Dec. 3.
- Lantern, Electric. O. S. Strom. Des. 77,511; Jan. 15.
- Lantern, Electric-lighting-fixture bracket. O. S. Strom. Des. 78,666; May 28.
- Lantern, Electric railway signal. J. O. Hazel. 1,740,592; Dec. 24.
- Lantern for motor vehicles, Rear. E. H. Coquille. 1,732,673; Oct. 22.
- Lantern, Hanging. C. Schmitt. Des. 78,484; May 7.
- Lantern, Hanging. C. Schmitt. Des. 78,486; May 7.
- Lantern, Street. J. Labin. 1,730,737; Oct. 8.
- Lantern, Street-lighting. O. J. Helvey. Des. 77,957-8; Mar. 12.
- Lap doffer, Automatic. T. S. Ramsdell. 1,734,302; Nov. 5.
- Lardameter. L. H. Chesson. 1,701,971; Feb. 12.
- Last. A. E. Block. 1,740,220; Dec. 17.
- Last. G. Clausing. 1,731,613; Oct. 15.
- Last. W. Creese. 1,729,821; Oct. 1.
- Last. E. W. Durkee. 1,731,000; Oct. 8.
- Last. G. B. Fitz. 1,697,059; Jan. 1.
- Last. F. J. Fritz. 1,703,877; Mar. 5.
- Last. L. W. Kenney. 1,705,222; Mar. 12.
- Last. A. C. Murphy. 1,722,385; July 30.
- Last. G. Schelter. 1,737,026; Nov. 26.
- Last. E. E. Winkley. 1,709,891; Apr. 23.
- Last and making same, Two-part. W. A. Krentler. 1,715,005; May 28.
- Last bushing and making the same. H. O. Davis. 1,736,999; Nov. 26.
- Last, Divided. G. M. Ray. 1,710,033; Apr. 23.
- Last-forming machine. M. Larson. 1,724,139; Aug. 13.
- Last, Hollow. W. J. De Witt. 1,727,339; Sept. 10.
- Last pin. E. M. Fullerton. 1,720,269; July 9.
- Lasting, Device for use in. F. W. Merrick. 1,707,168; Mar. 26.
- Lasting jack. L. H. Burnham and A. Drechsler. 1,726,382; Aug. 27.
- Lasting jack. A. Drechsler. 1,722,695; July 30.
- Lasting jack. A. A. Glidden and A. Drechsler. 1,722,698; July 30.
- Lasting jack. T. M. Knowland and A. Drechsler. 1,708,971; Apr. 16.
- Lasting machine. A. Eppler. 1,720,212; July 9.
- Lasting machine. J. Fausse and R. E. Duplessis. 1,713,525; May 21.
- Lasting machine. B. Jorgensen. 1,722,499; July 30.
- Lasting machine. J. C. Jorgensen and T. H. Seely. 1,722,500; July 30.
- Lasting machine. R. H. Lawson. 1,706,620; Mar. 26.
- Lasting machine. A. F. Pym. 1,729,682-3; Oct. 1.
- Lasting machine. L. D. Tatro. 1,711,620; May 7.
- Lasting machine for shoe wear. A. L. Levin. 1,724,295; Aug. 13.
- Lasting mechanism. B. Jorgensen. 1,719,296; July 2.
- Lasting shoes. C. B. Spalsburg. Re17,317; June 4.
- Lasts and shoes, Fitting. W. J. De Witt. 1,734,203; Nov. 5.
- Latch. A. Anderson and F. W. A. Henricl. 1,734,708; Nov. 5.
- Latch. S. O. Claytor. 1,704,554; Mar. 5.
- Latch. L. A. Dexter. 1,697,950; Jan. 8.
- Latch. J. Esters and J. S. Huber. 1,725,858; Aug. 27.
- Latch. O. Gravel. 1,724,759; Aug. 13.
- Latch. B. Hall. 1,738,648; Dec. 10.
- Latch. L. Janoir. 1,718,650; June 25.
- Latch. J. Kosten. 1,722,583; July 30.
- Latch. R. G. Moore. 1,721,162; July 16.
- Latch. R. G. Moore. 1,723,801-3; Aug. 6.
- Latch. G. E. Roedding. Des. 79,314; Aug. 27.
- Latch. G. E. Roedding. Des. 79,847-51; Nov. 5.
- Latch. A. J. Stewart. 1,703,556; Feb. 26.
- Latch. M. J. Tracy. 1,698,745; Jan. 15.
- Latch. M. J. Tracy. 1,699,821; Jan. 22.
- Latch. H. F. Wardwell. 1,724,536; Aug. 13.
- Latch. E. C. Wilson. 1,741,389; Dec. 31.
- Latch and lock, Door. B. E. Bartholomew. 1,733,442; Oct. 29.
- Latch attachment. J. H. Levinson. 1,721,345; July 16.
- Latch, Automatic. S. E. Thompson. 1,701,429; Feb. 5.
- Latch, Automatic window. J. Seiler. 1,711,972; May 7.
- Latch, Automatic window-safety. F. I. Smith, jr. 1,739,097; Dec. 10.
- Latch, Automobile door. J. B. Freysinger. 1,703,441; Feb. 26.
- Latch, Automobile door. A. F. Lickteig. 1,739,154; Dec. 10.
- Latch bolt. H. Chesher. 1,728,747; Sept. 17.
- Latch bolt. J. L. Pollock. 1,720,492; July 9.
- Latch-bolt guide. W. E. Wread. 1,720,639; July 9.
- Latch, Boot. F. G. Miller. 1,732,904; Oct. 22.
- Latch, Casket. W. D. Clark. 1,741,097; Dec. 24.
- Latch clip. H. D. Doucet and G. S. Gardner. 1,711,928; May 7.
- Latch, Clutch-lever. W. C. Shelor. 1,711,698; May 7.
- Latch. Concealed emergency exit. C. J. Prinzler. 1,721,489; July 16.
- Latch construction. A. Ekman. 1,712,336; May 7.
- Latch construction, Door. B. J. Goldsmith and A. Brieche. 1,731,005; Oct. 8.
- Latch construction, Door. L. S. Swearengin. 1,724,116; Aug. 13.
- Latch-control system for shaft doors. H. Cherniack and S. Brandon. 1,700,557; Jan. 29.
- Latch, Cupboard. F. W. McCormick. 1,697,075; Jan. 1.
- Latch, Cupboard door. G. T. Bennett. 1,722,621; July 30.
- Latch device. W. A. Smith. 1,715,793; June 4.
- Latch device, Window. R. Borden. 1,699,776; Jan. 22.
- Latch, Door. O. P. Cramer. 1,700,487; Jan. 29.
- Latch, Door. N. Dickey. 1,704,730; Mar. 12.
- Latch, Door. S. I. Fekete. 1,715,996; June 4.
- Latch, Door. L. Fritz. 1,713,042; May 14.
- Latch, Door. C. J. Heuser. 1,726,666; Sept. 3.
- Latch, Door. F. D. Maris. 1,715,300; May 28.
- Latch, Door. F. M. Nelson. 1,723,063; Aug. 6.
- Latch, Door. E. C. Osbeck. 1,710,319; Apr. 23.
- Latch, Door. E. C. Osbeck. 1,725,880; Aug. 27.
- Latch, Door. E. G. Powell. 1,708,150; Apr. 9.
- Latch, Door. G. E. Roedding and E. C. Osbeck. 1,700,747; Feb. 5.
- Latch, Door. W. R. Schlage. 1,739,654; Dec. 17.
- Latch, Door. J. Soss. 1,704,770; Mar. 12.
- Latch, Door. C. J. Williams. 1,713,806; May 21.
- Latch, Door. E. L. Wilson. 1,701,994; Feb. 12.
- Latch, Door. E. L. Wilson. 1,724,630; Aug. 13.
- Latch, Door. H. E. Woernle. 1,706,644; Mar. 26.
- Latch, Door. O. W. Wray. 1,708,819; Apr. 9.
- Latch, Doorstop. L. C. Cole. 1,725,701; Aug. 20.
- Latch, Exit-door. C. F. Kusch. 1,704,748; Mar. 12.
- Latch fastener. G. A. Lee. 1,719,272; July 2.
- Latch, Flood-gate. F. C. Holstein. 1,710,982; Apr. 30.
- Latch for a refrigerator. W. Schnell. Des. 78,657; May 28.
- Latch for a refrigerator door. W. Schnell. Des. 78,656; May 28.
- Latch for automobile doors. P. H. Gaskins. 1,721,016; July 16.
- Latch for awning-type windows. E. F. Wiley. 1,739,998; Dec. 17.
- Latch for bank vaults, Safety. H. J. Coon. 1,703,225-6; Feb. 26.
- Latch for cabinet drawers. F. L. G. Straubel. 1,706,085; Mar. 19.
- Latch for camera fronts. J. Christie. 1,723,723; Aug. 6.
- Latch for closure operators. O. C. Johnson. 1,720,554; July 9.



- Latch for doors. G. W. Wells. 1,738,338; Dec. 3.  
 Latch for electric switches. D. E. Rohrer. 1,737,334; Nov. 26.  
 Latch for instrument casings. B. B. and E. H. Bristol. 1,709,772; Apr. 16.  
 Latch for lockers. W. Isler. 1,729,344; Sept. 24.  
 Latch for lockers. P. Vignos. 1,740,672; Dec. 24.  
 Latch for pivoted handles. W. G. Heimerdinger. 1,741,109; Dec. 24.  
 Latch for the operating levers of car doors. D. E. Conrad, and V. V. Baldwin. 1,705,751; Mar. 19.  
 Latch for tiltable dump bodies. L. E. Williams. 1,739,746; Dec. 17.  
 Latch for vehicle or house doors. W. F. Hamptow. 1,708,444; Apr. 9.  
 Latch, Garage-door. J. Yunek. 1,700,620; Jan. 29.  
 Latch, Gate. J. B. Olson. 1,711,743; May 7.  
 Latch, Gate. J. W. Roadcap. 1,718,079; June 18.  
 Latch, Gate. H. Wilburn. 1,711,370; Apr. 30.  
 Latch, Hood. J. F. White. 1,734,282; Nov. 5.  
 Latch-hook device. J. L. Lange. 1,699,975; Jan. 22.  
 Latch housing. W. E. Wread. 1,720,640; July 9.  
 Latch, Lever. T. Brady. 1,717,492; June 18.  
 Latch link for chains. T. F. Sexton. 1,722,159; July 23.  
 Latch, Locker. S. S. French. 1,729,038-9; Sept. 24.  
 Latch means for binders. A. M. Martin. 1,733,894; Oct. 29.  
 Latch means for loose-leaf binders. H. J. Dornes. 1,733,950; Oct. 29.  
 Latch means for loose-leaf binders. A. M. Martin. 1,733,814; Oct. 29.  
 Latch mechanism. J. Ledwinka. 1,731,581; Oct. 15.  
 Latch mechanism, Door-. J. R. Smith. 1,711,213; Apr. 30.  
 Latch mechanism for doors. F. Brummer. 1,725,846; Aug. 27.  
 Latch mechanism for hinged member. F. M. Stoll. 1,714,698; May 28.  
 Latch, Mortise night. E. Ellingson. 1,728,263; Sept. 17.  
 Latch needle, Hand-operated. B. E. Cook. 1,704,790; Mar. 12.  
 Latch-operating means, Door-. S. F. Wread. 1,735,914; Nov. 19.  
 Latch, Pocketbook. C. J. McCabe and I. Schoenholz. Des. 80,007-8; Nov. 26.  
 Latch, Refrigerator. C. G. Strotz. 1,741,546; Dec. 31.  
 Latch-releasing device, Garage-door. C. E. Johnson. 1,718,465; June 25.  
 Latch retainer, Door-. J. C. Wilmot. 1,733,847; Oct. 29.  
 Latch-retracting attachment for window-operating devices. S. W. Nicholson. 1,737,119; Nov. 26.  
 Latch, Safety. J. Nowotny. 1,718,974; July 2.  
 Latch, Sash. R. H. Bergstrom. 1,724,637; Aug. 13.  
 Latch, Sewing-machine bobbin-case. M. Hemleib. 1,702,383; Feb. 19.  
 Latch spindle and lock assembly. M. H. Toncray. 1,720,804; July 16.  
 Latch, Split-bolt. W. R. Schlage. 1,718,711; June 25.  
 Latch, Spring. C. J. Geiser. 1,720,593; July 9.  
 Latch strike. L. Ottinger. 1,716,671-2; June 4.  
 Latch structure. W. E. Wread. 1,720,641; July 9.  
 Latch structure, Door-. R. A. Nelson. 1,701,932; Feb. 12.  
 Latch unit. W. E. Wread. 1,720,636; July 9.  
 Latch unit, Night. W. E. Wread. 1,720,642; July 9.  
 Latch, valve. H. E. Rose. 1,707,573; Apr. 2.  
 Latch, Vault. M. L. Canott and J. E. Hall. 1,708,120; Apr. 9.  
 Latch, Vehicle door. W. Marshall and F. Kiehler. 1,700,231; Jan. 29.  
 Latch, Wedge-secured door. S. J. Boyd. 1,713,253; May 14.  
 Latch, Window. C. A. Frick. 1,698,695; Jan. 8.  
 Latch, Window. F. S. Hall. 1,704,601; Mar. 5.  
 Latch, Window. W. S. Hamm. 1,700,093-4; Jan. 22.  
 Latch, Window. H. Holland. 1,730,146; Oct. 1.  
 Latching and controlling mechanism, Scoop. H. F. Lessmann. 1,703,275; Feb. 26.  
 Latching device. E. A. Conaway. 1,704,558; Mar. 5.  
 Latching device. O. C. H. Hankwitz. 1,720,042; July 9.  
 Latching device, Selective. K. H. Lindgren. 1,704,946; Mar. 12.  
 Latching device, Window-. R. H. Bliss. 1,706,100; Mar. 19.  
 Latching means. C. H. Behnke. 1,699,272; Jan. 15.  
 Latching means for binders. A. M. Martin. 1,733,548; Oct. 29.  
 Latching mechanism. J. R. McFarlin. 1,723,290; Aug. 6.  
 Latching mechanism, Door-. A. B. Ellery. 1,733,453; Oct. 29.  
 Latching mechanism, Switch. H. M. Chatto. 1,701,440; Feb. 5.  
 Lateral springing for vehicle running gears. C. Stedefeld. 1,725,310; Aug. 20.  
 Latex, Treating rubber. J. McGavack. 1,740,994; Dec. 24.  
 Lath. W. D. Hicks. 1,730,935; Oct. 8.  
 Lath, Metal. R. H. Sagendorph. 1,701,125; Feb. 5.  
 Lath, Plaster. W. D. Hicks. 1,699,967; Jan. 22.  
 Lath, Plaster. J. F. Makowski. 1,705,775; Mar. 19.  
 Lath, Ribbed expanded-metal. F. C. Arey. 1,739,473; Dec. 10.  
 Lath, Sheet. J. H. Dean. 1,726,696; Sept. 3.  
 Lath, Wire. G. F. Voight. 1,712,125; May 7.  
 Lathe. L. W. Aff. 1,708,405; Apr. 9.  
 Lathe. G. M. Class. 1,709,118; Apr. 16.  
 Lathe. V. Lachn. 1,738,436; Dec. 3.  
 Lathe. M. Reid. 1,706,544; Mar. 26.  
 Lathe and sander for woodwork. Automatic combined turning. A. L. Brown. 1,732,119; Oct. 15.  
 Lathe, Automatic. H. F. Maxim. 1,722,933; July 30.  
 Lathe-carriage feed mechanism. E. R. Seward. 1,705,545; Mar. 19.  
 Lathe center. H. D. Davis and C. L. Fowler. 1,721,988; July 23.  
 Lathe, Center-drive. W. F. Groene. 1,700,721; Jan. 29.  
 Lathe chuck. J. S. McWhirter. 1,703,200; Feb. 26.  
 Lathe, Copying. C. E. Reed, jr. 1,702,796; Feb. 19.  
 Lathe, Copying. G. F. Ryan. 1,727,906; Sept. 10.  
 Lathe, Copying. L. E. Topham. 1,724,981; Aug. 20.  
 Lathe cross feed. W. O. Strauss and W. E. Greene. 1,728,220; Sept. 17.  
 Lathe, Finishing. F. Schimmel. 1,733,208; Oct. 29.  
 Lathe for turning piston rings. J. A. R. Bennet. 1,732,631; Oct. 22.  
 Lathe, Last. W. W. Slack. 1,736,278; Nov. 19.  
 Lathe mechanism. W. L. Schellenbach. 1,701,275; Feb. 5.  
 Lathe, Multiple-spindle. Z. L. Litvinas. 1,717,047; June 11.  
 Lathe, Multispindle turret. F. Poppensieker. 1,716,532; June 11.  
 Lathe or grinder attachment. L. A. Dall. 1,710,016; Apr. 23.  
 Lathe, Portable tire. F. M. Vandervoort and H. D. Paxson. 1,723,221; Aug. 6.  
 Lathe, Precision threading. P. M. Mueller. 1,718,480; June 25.  
 Lathe structure, Bench. F. C. Blanchard and T. S. Ross. 1,717,431; June 18.  
 Lathe, Tube-wrapping. W. C. Bleher, F. E. Willis, and R. A. Wentworth. 1,711,556; May 7.  
 Lathe, Wheel. K. Lurf. 1,720,227; July 9.  
 Lather, Device for making. J. Campanella. 1,738,691; Dec. 10.  
 Lathes, Apron mechanism for. E. R. Seward. 1,714,320; May 21.  
 Lathes, Feed-screw limit gauge for. C. E. Moore. 1,721,524; July 23.  
 Lathes, Geared headstock for. W. Jarth. 1,712,766; May 14.  
 Lathes, Grinding attachment for. P. H. Buehrle. 1,719,689; July 2.  
 Lathes, Relieving mechanism for. P. M. Mueller. 1,700,327; Jan. 29.  
 Lathes, Saw-table attachment for. H. Dalton. 1,702,499; Feb. 19.  
 Lathes, Squaring attachment for. N. King. 1,724,285; Aug. 13.  
 Lathes, Steady rest for automatic. D. Turcott. 1,736,421; Nov. 19.  
 Lathes, Surface plate for wheel. E. Blau. 1,725,330; Aug. 20.  
 Lathes, Work driver for. J. D. Slyder. 1,730,482; Oct. 8.  
 Lathes, Work-releasing device for. J. J. Thacher. 1,700,340; Jan. 29.  
 Lathing for stucco. G. E. Swenson. 1,731,067; Oct. 8.  
 Lathing, Metallic. F. M. Barton. 1,736,873; Nov. 26.  
 Launching and landing aeroplanes from and upon suspended positions, Device for. L. B. Sperry. 1,716,670; June 11.  
 Launching device for airplanes, Automatic. E. A. Sperry. 1,734,353; Nov. 5.  
 Laundering and detergent used therein. L. Hager and J. Popperman. 1,710,974; Apr. 30.  
 Laundering apparatus. L. S. Smith. 1,738,326; Dec. 3.  
 Laundering machine and driving and stabilizing mechanism therefor. C. C. Lamb. 1,710,095; Apr. 23.  
 Laundering textile fabric. R. A. Phair and B. Bucaria. 1,732,729; Oct. 22.  
 Laundry apparatus. F. H. Ebnts. 1,711,491; May 7.  
 Laundry apparatus. W. F. Hendry. 1,722,984; July 30.  
 Laundry appliance. C. H. Boyuls. 1,706,690; Mar. 26.  
 Laundry appliance. E. E. Frey and J. Griesinger. 1,699,059; Jan. 15.  
 Laundry bag. A. M. Maloney. 1,722,931; July 30.  
 Laundry bag, Doll. I. M. Tunks. Des. 77,796; Feb. 19.  
 Laundry bin. A. F. Hanney. 1,717,705; June 18.  
 Laundry device. W. E. Kerr. 1,710,736; Apr. 30.  
 Laundry machine, Multiple-compartment. G. W. Dunham. 1,741,685-6; Dec. 31.  
 Laundry-machinery lock. E. and P. Schnell. 1,741,661; Dec. 31.  
 Laundry machines, Laundry-confining device for spinners of. G. W. Dunham. 1,711,141; Apr. 30.  
 Laundry marker. G. E. True. 1,723,588; Aug. 6.  
 Laundry rack. P. Schander. 1,718,881; June 25.  
 Laundry rack, Rotatable. J. S. Patterson. 1,710,711; Apr. 30.  
 Laundry stick. A. R. Oberwegner. 1,732,314; Oct. 22.  
 Lavage process and product therefor. C. Ellis. 1,700,035; Jan. 22.  
 Lavatory. J. M. Bonner, jr. Des. 78,257; Apr. 16.  
 Lavatory. G. Brain. Des. 77,877; Mar. 5.  
 Lavatory. R. E. Crane. 1,740,156; Dec. 17.  
 Lavatory. H. S. Dummett. 1,725,259; Aug. 20.  
 Lavatory. W. E. Hinsdale. 1,709,131; Apr. 16.  
 Lavatory. E. G. Watrous. Des. 79,312; Aug. 27.  
 Lavatory. E. G. Watrous. Des. 79,862; Nov. 5.  
 Lavatory. A. Wolverton. Des. 79,449; Sept. 17.  
 Lavatory drier, Electrically-operated. G. A. Burgess. 1,725,897; Aug. 27.  
 Lavatory fixture. J. A. Seibert. 1,723,817; Aug. 6.



- Lawn rake. F. C. Bell and S. Skelly. 1,699,947; Jan. 22.  
 Lawn roller, Spiken. F. E. Marcy. 1,704,986; Mar. 12.  
 Lawn-smoothing implement. R. Christianson. 1,728,331; Sept. 17.  
 Lawn sprinkler. W. H. Coles. 1,741,557; Dec. 31.  
 Lawn sprinkler. W. L. Deming. 1,737,832; Dec. 3.  
 Lawn sprinkler. G. Dillman. 1,716,305; June 4.  
 Lawn sprinkler. W. Hartman. 1,702,605; Feb. 19.  
 Lawn sprinkler. P. Irving, D. E. Lindquist, S. E. Eusey, and O. B. Mueller. 1,726,490; Aug. 27.  
 Lawn sprinkler. F. I. Jaden. 1,704,610; Mar. 5.  
 Lawn sprinkler. R. A. Johnson. 1,724,662; Aug. 13.  
 Lawn sprinkler. L. R. Nelson. 1,697,203; Jan. 1.  
 Lawn sprinkler. L. R. Nelson. 1,716,733; June 11.  
 Lawn sprinkler. M. Schneider. 1,712,523; May 14.  
 Lawn sprinkler. C. H. Shaffer. 1,730,248; Oct. 1.  
 Lawn sprinkler. W. C. Todd. 1,721,237; July 16.  
 Lawn sprinkler. C. J. Van Aken. 1,719,790; July 2.  
 Lawn sprinkler. W. J. Warner. 1,721,758; July 23.  
 Lawn sprinkler, Automatic. H. G. Tuthill. 1,716,015; June 4.  
 Lawn trimmer. J. Cripe. 1,720,169; July 9.  
 Lawn trimmer. F. G. Hawney. 1,721,661; July 23.  
 Lawn trimmer. A. R. Keefe. 1,727,067; Sept. 3.  
 Lawn trimmer. G. A. Kinney. 1,699,071; Jan. 15.  
 Lawn trimmer. I. Smith. 1,707,819; Apr. 2.  
 Lawn trimmer. C. A. Wangerin. 1,709,640; Apr. 16.  
 Laying car floors and aisle strips. D. W. Pye. 1,698,734; Jan. 15.  
 Leach liquors, Production of clear. A. W. Allen. 1,731,450; Oct. 15.  
 Lead and compositions containing the same, Stabilization of tetraalkyl. W. S. Calcott and A. E. Parmelee. 1,724,640; Aug. 13.  
 Lead and slug cutting machine. W. W. Kistler. 1,717,043; June 11.  
 Lead coating of articles. O. Brandenberger. 1,717,140; June 11.  
 Lead compounds, Making. C. H. Braselton. 1,728,388; Sept. 17.  
 Lead compounds, Making. C. H. Braselton. 1,734,285; Nov. 5.  
 Lead-in construction for electric-discharge tubes. R. G. Berthold. 1,725,175; Aug. 20.  
 Lead, Making white. E. C. Walker. 1,732,490; Oct. 22.  
 Lead, Producing tetra-ethyl. H. W. Daudt. 1,705,723; Mar. 19.  
 Lead, Production of white. F. T. Bailey and W. Austin. 1,720,196; July 9.  
 Lead, Production of white. F. T. Bailey and W. Austin. 1,723,001; Aug. 6.  
 Lead reagents, Producing soluble. D. W. Parkes. 1,740,312; Dec. 17.  
 Lead refining. B. W. Gonser and C. W. Haffey. 1,726,346; Aug. 27.  
 Lead, Refining. J. P. Walker. 1,731,365; Oct. 15.  
 Lead-stacking machine, Pig-. W. E. Newnam. 1,724,304; Aug. 13.  
 Lead tetra-alkyl, Production of. H. W. Daudt, A. E. Parmelee, and K. P. Monroe. 1,717,961; June 18.  
 Leader strap. D. Levow. Des. 77,646; Feb. 5.  
 Leading-in wire for glass vessels. E. Friederich. 1,734,900; Nov. 5.  
 Leaf flipper. P. O. Unger. 1,722,645; July 30.  
 Leaf of loose-leaf books. W. H. Browning. 1,706,911; Mar. 26.  
 Leaf spring. J. C. Hemmert. 1,722,292; July 30.  
 Leaf stemmer. J. Gough. 1,707,223; Apr. 2.  
 Leaf-stemming device. C. F. Lindh. 1,740,611; Dec. 24.  
 Leak detector and filler. Storage-battery liquid. L. W. Hulvo and G. A. Williams. 1,737,848; Dec. 3.  
 Leak indicator and cementing plug. P. H. Granger. 1,718,416; June 25.  
 Leak indicator for pressure lines. B. C. White. 1,732,035; Oct. 15.  
 Leak stop for use with pipes. S. J. Rousey. 1,727,038; Sept. 3.  
 Leather and improved decorated leather, Decorating. W. S. Lawrence. 1,703,675; Feb. 26.  
 Leather and producing the same, Sole. A. W. Patton. 1,712,518; May 14.  
 Leather, Apparatus for finishing. O. F. W. Cromwell. 1,715,226; May 28.  
 Leather articles, Making. W. B. Campbell. Re17,387; July 30.  
 Leather belting for gluing or cementing, Preparing. W. S. Griffith. 1,741,106; Dec. 24.  
 Leather for dyeing, Preparation of chrome-tanned. R. H. Pickard, D. J. Lloyd, and A. E. Counce. 1,715,623; June 4.  
 Leather-glazing machine. F. J. Robinson. 1,714,243; May 21.  
 Leather, Imitation. C. H. Dennison. 1,713,746; May 21.  
 Leather manufacture. W. M. Cavanaugh. 1,713,113; May 14.  
 Leather, Manufacture of. R. H. Pickard, D. J. Lloyd, and A. E. Counce. 1,715,622; June 4.  
 Leather or similar article. H. G. Wurm. Des. 11,955; Mar. 12.  
 Leather, Production of. R. H. Pickard, D. J. Lloyd, and A. E. Counce. 1,715,621; June 4.  
 Leather-scratching machine. W. S. Griffith. 1,741,107; Dec. 24.  
 Leather-shaving machine. W. A. Traud. 1,718,091; June 18.  
 Leather sheeting and making the same, Artificial. T. G. Richards. 1,731,754; Oct. 15.  
 Leather stiffeners for the heels and toes of boots and shoes, Apparatus for use in manufacturing. F. C. Weichelt and P. S. Turnbull. 1,697,548; Jan. 1.  
 Leather strips, Forming beveled. C. B. Cook. 1,699,348; Jan. 15.  
 Leather substitute and process of making. R. A. Marr. 1,713,846; May 21.  
 Leather substitutes, Manufacture of. R. Clavel. 1,727,862; Sept. 10.  
 Leather-tempering box. P. V. Clack. 1,735,525; Nov. 12.  
 Leather-washing machine. E. A. De Graff. 1,731,564; Oct. 15.  
 Leather-working machine. C. P. and A. C. Vogel. 1,715,582; June 4.  
 Ledger-board clamp. T. H. Kingston. 1,739,904; Dec. 17.  
 Ledger lock. C. L. Harvey. 1,700,223; Jan. 29.  
 Leer. J. Mayo. 1,719,897; July 9.  
 Leer, Rotary vertical. R. Good. 1,712,205; May 7.  
 Left-turn and stop signal. O. F. Immell. 1,700,370; Jan. 29.  
 Leg, Adjustable. J. J. Opremcchak. 1,707,363; Apr. 2.  
 Leg, Bench. E. E. Ekvall. Des. 78,275-8; Apr. 16.  
 Leg clamp, Sectional-derrick-. W. F. Speakman and G. E. Crockett. 1,703,369; Feb. 26.  
 Leg construction for water coolers. M. Stein and A. S. Levin. 1,741,961; Dec. 31.  
 Leg for a display stand or similar article. L. R. Kain. Des. 78,290-5; Apr. 16.  
 Leg for an article of furniture. E. E. Ekvall. Des. 79,644-7; Oct. 22.  
 Leg-rest chair, Collapsible. T. H. Watson. 1,697,671; Jan. 1.  
 Leg rest for autoists. J. M. Remington. 1,740,267; Dec. 17.  
 Legging. G. K. Hodges. 1,737,795; Dec. 3.  
 Legging. C. R. Holcomb. 1,710,221; Apr. 23.  
 Legging. K. E. Jensen. 1,708,271-2; Apr. 9.  
 Leggings spat. J. Rubin. 1,706,709; Mar. 26.  
 Lenard ray tube. C. M. Slack. 1,735,302; Nov. 12.  
 Leno jumper attachment. E. J. Tetreault. 1,719,911; July 9.  
 Lens. F. A. Benford. 1,716,361; June 11.  
 Lens. S. Bielecki. 1,739,478; Dec. 10.  
 Lens. N. Kopp. Des. 78,031; Mar. 19.  
 Lens. K. Martin. 1,706,177; Mar. 19.  
 Lens. H. M. Nelson. 1,735,208-9; Nov. 12.  
 Lens. R. D. Pearson. 1,716,321; June 4.  
 Lens and making the same, Bifocal. H. A. Courmettes. 1,729,066; Sept. 24.  
 Lens and making the same, Ophthalmic. W. B. Rayton. 1,715,784; June 4.  
 Lens attachment for glasses, Auxiliary. L. Dunkelsberg. 1,738,990; Dec. 10.  
 Lens-beveling attachment for lens-edge-grinding machines. E. G. Robinson. 1,740,551; Dec. 24.  
 Lens-blocking device. J. J. McCabe. 1,727,889; Sept. 10.  
 Lens clip or similar article. V. Tanasso and J. J. Pomeranz. Des. 78,594; May 21.  
 Lens drill. J. J. McCabe. 1,727,888; Sept. 10.  
 Lens-fitting attachment. J. L. King. 1,717,224; June 11.  
 Lens-focusing mechanism. E. Bausch and W. L. Paterson. 1,711,768; May 7.  
 Lens, Headlight. H. Hupp. 1,726,460; Aug. 27.  
 Lens mounting, Focusing-. A. F. Koehler. 1,734,438; Nov. 5.  
 Lens, Multifocal. H. W. Hill. 1,735,758; Nov. 12.  
 Lens, Multifocal ophthalmic. H. W. Hill and R. D. Wheeler. 1,731,419; Oct. 15.  
 Lens, Ophthalmic. E. D. Tillyer. 1,697,030; Jan. 1.  
 Lens-seating device. A. E. Glancy. 1,722,520; July 30.  
 Lens, Special cut. A. J. Oberg and R. R. Stoefen. 1,739,607; Dec. 17.  
 Lens, Spectacle. J. H. Hammon. 1,740,298; Dec. 17.  
 Lens strap. C. C. Norris. 1,706,314; Mar. 19.  
 Lens system. H. N. Cox. 1,732,432; Oct. 22.  
 Lens system for color photography. H. N. Cox. 1,699,226; Sept. 3.  
 Lens-testing instrument. A. E. Glancy. 1,726,820; Sept. 3.  
 Lenses, Making bifocal. C. B. Ustonson. 1,739,743; Dec. 17.  
 Lenses, Making bifocal. F. B. Watson and E. Culver. 1,729,654; Oct. 1.  
 Lenses, Making fused multifocal. C. G. Haering. 1,734,428; Nov. 5.  
 Lenses, Making multifocal. L. W. Bugbee, jr. 1,738,866; Dec. 10.  
 Lenses, Manufacture of eyeglass. W. H. Silge. 1,729,459; Sept. 24.  
 Lenses or the like, Making. D. F. Comstock. 1,722,368; July 30.  
 Let-off. A. S. Hutchins. 1,703,884; Mar. 5.  
 Letter-holding device. J. L. Gautheron. 1,722,245; July 23.  
 Lettering instrument. D. M. Dunning, jr. 1,716,036; June 4.  
 Lettering to woven mesh fabric, Affixing. V. L. Pistocco. 1,729,842; Oct. 1.  
 Letter plate, Glass. F. P. Muehlenbeck. 1,701,241; Feb. 5.  
 Letters, figures, and like signs for fixing to windows and the like, Preparation of. F. K. Kreisel. 1,722,926; July 30.  
 Level. E. F. Bacon. 730,109; Oct. 1.  
 Level. H. J. Barnett. 1,700,278; Jan. 29.



- Level. R. H. Bertram. 1,705,889; Mar. 19.  
 Level. I. Iverson. 1,732,335; Oct. 22.  
 Level. W. L. Myers. 1,703,589; Feb. 26.  
 Level. G. R. Ober. 1,738,791; Dec. 10.  
 Level and plumb. G. E. Erickson and S. A. Kraft. 1,697,592; Jan. 1.  
 Level and plumb. H. J. Swanson. 1,705,425; Mar. 12.  
 Level and square, Combined. B. Rudloff. 1,735,413; Nov. 12.  
 Level and transit, Topography. E. S. M. Lovelace. 1,740,255; Dec. 17.  
 Level, Carpenter's. R. B. Maddox. 1,736,502; Nov. 19.  
 Level, Control. R. S. Gans. 1,710,305; Apr. 23.  
 Level-control apparatus, Liquid-. L. S. Chadwick, M. Resek, and J. A. Dahlstrom. 1,732,200; Oct. 15.  
 Level-control structure, Liquid-. L. W. Brown. 1,702,557; Feb. 19.  
 Level, Convertible. S. J. Heinrich. 1,710,057; Apr. 23.  
 Level, Hammer. S. O. Duemler. 1,702,689; Feb. 19.  
 Level, Hand. O. J. Kuker. 1,741,422; Dec. 31.  
 Level-indicating tank hopper. R. J. C. Tampier. 1,725,027; Aug. 20.  
 Level indicator and automatic scoop for locomotive tenders, Water-. J. C. Dudley. 1,741,618; Dec. 31.  
 Level, Line. A. L. Stowell. 1,716,744; June 11.  
 Level lubricator, Constant-. J. J. Hennessy. 1,707,662; Apr. 2.  
 Level, Spirit. J. M. Deneen. 1,712,201; May 7.  
 Level, Spirit. R. H. Jay. 1,703,006; Feb. 19.  
 Level, Spirit. J. F. Shooter. 1,700,815; Feb. 5.  
 Leveler. D. R. Throop. 1,699,167; Jan. 15.  
 Leveler bar for coke ovens. J. Van Ackeren and J. I. Thompson. 1,720,805; July 16.  
 Leveler, Land. I. W. Penny. 1,710,110; Apr. 23.  
 Leveler, Seed-bed. A. Hoekstra. 1,710,420; Apr. 23.  
 Leveling device. J. A. Kinard. 1,734,215; Nov. 5.  
 Leveling device. F. and W. V. E. Torka. 1,714,827; May 28.  
 Leveling machine. S. S. Davenport. 1,717,372; June 18.  
 Leveling machine. E. B. Winkley. 1,703,849; Feb. 26.  
 Leveling machine, Sole-. J. B. Hadaway. 1,703,850; Feb. 26.  
 Leveling mechanism. L. W. Lowther. 1,719,435; July 2.  
 Leveling mechanism, Vehicle. J. M. Larsh. 1,716,233; June 4.  
 Leveling the top of the gravel layer of filter beds. G. B. Wade. 1,718,767; June 25.  
 Lever: See—  
 Brake lever.  
 Lever assembly for door latches, Remote-control-. J. H. Clark. 1,739,710; Dec. 17.  
 Lever assembly for steering gears, Control-. E. J. Gruenewald and F. F. Chandler. 1,702,826; Feb. 19.  
 Lever brake engine, Floating-. R. Moore. 1,698,604; Jan. 8.  
 Lever control for automobile heaters. T. Bovey and S. J. Bovey. 1,724,990; Aug. 20.  
 Lever, Flush. H. B. Myers. 1,729,546; Sept. 24.  
 Lever Gear-shift. C. M. Hibbets. 1,719,368; July 2.  
 Lever lock, Switch-. L. J. Cotton. 1,731,766; Oct. 15.  
 Lever, Locking. J. G. Steele. 1,706,331; Mar. 19.  
 Lever mechanism, Air-brake. A. B. Ream. 1,698,656; Jan. 8.  
 Lever mechanism for automatic fluid-control systems, Balanced-. A. E. Weingartner. 1,717,291; June 11.  
 Lever mounting, Gear-shift-. P. L. Tenney. 1,713,244; May 14.  
 Lever movement. W. J. Andres. 1,724,897; Aug. 20.  
 Lever-operating attachment for drawn implements. E. I. Hiatt. 1,736,197; Nov. 19.  
 Lever system for scales or the like. B. W. King. 1,713,286; May 14.  
 Lever, Valve-operating. J. A. Johnson. 1,710,827; Apr. 30.  
 Leverage system. E. B. Boughton. 1,733,936; Oct. 29.  
 Library-stack-supporting structure. A. K. Jorgensen and G. Petry. 1,729,743; Oct. 1.  
 License for motor vehicles, Day and night. J. M. Moore. 1,697,657; Jan. 1.  
 License plate. I. Rotole. 1,699,023; Jan. 15.  
 License plate and automobile license-plate holder, Automobile. C. H. Clark. 1,739,441; Dec. 10.  
 License plate and tail light for vehicles, Combination. R. Klingla. 1,715,133; May 28.  
 License-plate assembly, Vehicle. G. T. Powers. 1,729,184; Sept. 24.  
 License-plate attachment, Automobile. H. D. Barnett. 1,720,258; July 9.  
 Lid, Display. E. Brunhoff. 1,712,742; May 14.  
 Lid for a vanity case or a similar article. G. Courraul. Des. 77,743; Feb. 19.  
 Lid for containers, Display. N. Flegenheimer. 1,712,140; May 7.  
 Lid, Ice-cream-cabinet. H. D. Geyer. 1,719,220; July 2.  
 Lid lifter. P. J. Ford. 1,732,932; Oct. 22.  
 Lid opener for receptacles. B. Polak. 1,717,252-3 June 11.  
 Lid or cover. F. D. Axtell. 1,702,243; Feb. 19.  
 Lid, Stove. L. Scruggs. 1,728,634; Sept. 17.  
 Lid-supporting means for cabinets or boxes. J. A. Stone. 1,741,081; Dec. 24.  
 Lifeboat-releasing device. G. W. P. Overman. 1,742,092; Dec. 31.  
 Lifeboat, Reversible. T. H. Gaskin. 1,730,363; Oct. 8.  
 Life-insurance-policy table-value printing-in system. G. Lipman. 1,738,911; Dec. 10.  
 Life preserver. S. Gates. 1,734,619; Nov. 5.  
 Life preserver. E. W. Skoldberg. 1,742,104; Dec. 31.  
 Life-saver that serves also as a buffer. E. Lintz. 1,725,091; Aug. 20.  
 Life-saving apparatus. J. Picco. 1,719,194; July 2.  
 Life-saving apparatus for use with submarines. J. W. Strunk. 1,715,959; June 4.  
 Life-saving apparatus, Marine. F. P. Gutowski. 1,723,156; Aug. 6.  
 Life-saving apparatus, Marine. A. Lehr. 1,741,851; Dec. 31.  
 Life-saving device. M. J. Reinhard. 1,709,488; Apr. 16.  
 Life-saving device. J. P. Whann. 1,707,182; Mar. 26.  
 Life-saving device, Fire. C. Romson. 1,740,317; Dec. 17.  
 Life-saving device for aeroplanes and ships. P. Ballaz. 1,733,932; Oct. 29.  
 Life-saving device for ships and the like. N. Grabich. 1,730,134; Oct. 1.  
 Life-saving device for submarines. F. H. Lear. 1,740,948; Dec. 24.  
 Life-saving suit. T. E. Aud. 1,706,097; Mar. 19.  
 Life-saving suit. W. S. Aud. 1,705,888; Mar. 19.  
 Lift. H. Kantor. 1,716,232; June 4.  
 Lift device, Hydraulic. A. C. Spitznagel. 1,728,452; Sept. 17.  
 Lift for automobiles, Quick. C. P. Klein. 1,726,988; Sept. 3.  
 Lifter: See—  
 Automobile lifter. Lid lifter.  
 Bottle-cap lifter. Pan lifter.  
 Brick lifter. Plate lifter.  
 Can and valve lifter. Pot lifter.  
 Can lifter. Type lifter.  
 Cap lifter. Utensil lifter.  
 Corn lifter. Vacuum lifter.  
 Jar lifter. Valve lifter.  
 Lifter and guard for tractors, Grain-stalk. A. B. Warren. 1,706,641; Mar. 26.  
 Lifter for salt grainers. T. C. Colbiornsen. 1,712,651; May 14.  
 Lifter for stone blocks and the like. W. S. Whyte. 1,729,467; Sept. 24.  
 Lifting and moving invalids, Apparatus for. C. M. Cottman. 1,738,758; Dec. 10.  
 Lifting and snubbing attachment for vehicles. C. O. Ryberg. 1,719,237; July 2.  
 Lifting apparatus, Liquid-. G. Blow. 1,698,619; Jan. 8.  
 Lifting arrangement, Load-. C. D. Bonsall. 1,702,961; Feb. 19.  
 Lifting device. I. V. K. Hott and W. A. Spear. 1,702,442; Feb. 19.  
 Lifting device. C. L. Trapp. 1,720,980; July 16.  
 Lifting device, Automobile. H. C. Buffington. 1,701,803; Feb. 12.  
 Lifting device, Brush-. G. H. Leland. 1,706,068; Mar. 19.  
 Lifting ears of corn, Device for. G. N. Locke. 1,714,039; May 28.  
 Lifting jack. J. L. Barnes. 1,733,480; Oct. 29.  
 Lifting jack. C. F. Bath. 1,723,387; Sept. 17.  
 Lifting jack. H. W. Clark. 1,722,275; July 30.  
 Lifting jack. E. E. Cline, and E. W. Holmes. 1,714,548; May 28.  
 Lifting jack. J. F. Donnelly. 1,741,144; Dec. 31.  
 Lifting jack. A. C. Hopkins. 1,723,353; Aug. 6.  
 Lifting jack. A. C. Hopkins. 1,737,373; Nov. 26.  
 Lifting jack. I. V. K. Hott. 1,719,661; July 2.  
 Lifting jack. W. B. Lake. 1,713,906-7; May 21.  
 Lifting jack. W. W. Matthes. 1,710,935; Apr. 30.  
 Lifting jack. H. E. Newkirk. 1,706,361; Mar. 19.  
 Lifting jack. L. Perkins. 1,704,145; Mar. 5.  
 Lifting jack. C. J. Rodman. 1,719,084; July 2.  
 Lifting jack. W. H. Stodman. 1,742,106; Dec. 31.  
 Lifting jack. G. B. Waite. 1,701,134; Feb. 5.  
 Lifting jack. W. H. Walker, J. J. Mizer, and I. E. Dearsley. Re17,219; Feb. 19.  
 Lifting jack, High-speed self-lowering. F. L. Gormley. 1,698,053; Jan. 8.  
 Lifting jack, Hydraulic. V. Jakob. 1,734,582; Nov. 5.  
 Lifting jack, Hydraulic. J. E. Ludwig. 1,734,816; Nov. 5.  
 Lifting jack, Hydraulic. C. B. Vickers. 1,728,088; Sept. 10.  
 Lifting machine such as a crane. J. M. Bernhard. 1,722,125; July 23.  
 Lifting mechanism for electric motors or the like. Brush-. G. H. Leland. 1,698,799; Jan. 15.  
 Lifting tongs. L. G. Pearce. 1,733,236; Oct. 29.  
 Lifting viscous fluids, Apparatus for. A. D. Kneuper. 1,740,821; Dec. 24.  
 Light: See—  
 Arc light. Port light.  
 Automobile light. Portable and adjustable light.  
 Christmas light. Revolving light.  
 Cross-aisle light. Safe light.  
 Dirigible light. Searchlight.  
 Dirigibly-mounted light. Signal light.  
 Ditch light. Stop and tail light.  
 Emergency light. Telephone dial light.  
 Flash light. Trouble welding light.  
 Instrument light. Vehicle light.  
 Landing light. Visor light.  
 Mounted light.  
 Movable light.  
 Light. B. Ames. 1,701,653; Feb. 12.



- Light advertising plant. M. Haase. 1,742,071; Dec. 31.  
 Light and color players, control system for. M. H. Greenewalt. 1,714,504; May 28.  
 Light and cord holding device for pressing boards, Combined. T. C. Balthaser. 1,738,514; Dec. 10.  
 Light and license plate, Combined tail. E. D. Hines. 1,698,681; Jan. 8.  
 Light and mounting therefor, Dirigible. J. Berge. 1,738,632; Dec. 10.  
 Light and rear illumination for automobiles, Stop. G. F. Robbins. 1,730,527; Oct. 8.  
 Light and structure, Combined. H. M. Hays. 1,702,967; Feb. 19.  
 Light box, Photoprinter's. N. F. Anderson. 1,710,960; Apr. 30.  
 Light by electricity, Production of. E. Podszus. 1,715,783; June 4.  
 Light ceiling fixture, Electric. C. W. Logan. Des. 79,033-4; July 23.  
 Light ceiling fixture, Electric. C. W. Logan. Des. 79,037; July 23.  
 Light ceiling fixture, Electric. C. W. Logan. Des. 79,153; Aug. 6.  
 Light ceiling fixture, Two-. J. Block. Des. 78,434; May 7.  
 Light color screen. C. L. Kellert. 1,740,603; Dec. 24.  
 Light control, Pilot-. E. L. Fonseca. 1,703,854; Feb. 26.  
 Light-controlling means. A. Whitaker and C. O. Browne. 1,740,673; Dec. 24.  
 Light-controlling means. A. Whitaker and M. Bowman-Manifold. 1,742,115; Dec. 31.  
 Light deflector. A. J. Mara. 1,712,351; May 7.  
 Light deflectors, Adjusting mechanism for. W. A. Kosken. 1,717,044; June 11.  
 Light diffuser for headlights. D. R. Fruchey. 1,714,304; May 21.  
 Light dimmer, Vehicle. G. H. Chapman. 1,719,922; July 9.  
 Light display effects, Device for producing electric. W. E. Price. 1,719,622; July 2.  
 Light fixture. H. L. Bosworth. 1,708,047; Apr. 9.  
 Light fixture. R. R. Hellvik. Des. 79,364; Sept. 10.  
 Light fixture. R. R. Hellvik. Des. 79,425; Sept. 17.  
 Light fixture. G. D. McFadden. Des. 77,701; Feb. 12.  
 Light fixture. G. E. Villaret. Des. 78,061 2; Mar. 19.  
 Light fixture and accessory. C. A. B. Halvorson, jr. 1,713,227; May 14.  
 Light fixture and ventilator, Ceiling electric. L. Simmons. 1,699,996; Jan. 22.  
 Light-fixture brace, Electric. C. E. Villaret. Des. 78,676; May 28.  
 Light fixture, Ceiling-. C. Richter. Des. 79,984; Nov. 26.  
 Light fixture, Ceiling electric-. L. Simmons. 1,731,942; Oct. 15.  
 Light fixture, Electric-. R. Hammerly. 1,732,087; Oct. 15.  
 Light fixture, Electric. W. Klehr. 1,718,154-5; June 18.  
 Light fixture, Electric-. G. E. Villaret. Des. 78,064; Mar. 19.  
 Light fixture for beds and other furniture. L. Roth. 1,697,884; Jan. 8.  
 Light fixture for gasoline pumps, Cluster. G. F. Bals. Des. 78,375; Apr. 30.  
 Light fixture, Star-shaped electric-. W. P. Herweg. 1,728,547; Sept. 17.  
 Light fixtures, Arm for electric-. C. W. Logan. Des. 79,148; Aug. 6.  
 Light fixtures, Arm for electric. G. E. Villaret. Des. 78,675; May 28.  
 Light fixtures, Brace for electric-. G. E. Villaret. Des. 78,066; Mar. 19.  
 Light fixtures, Bracket arm for electric-. C. W. Logan. Des. 79,149; Aug. 6.  
 Light fixtures, Canopy for electric-. C. W. Logan. Des. 79,035; July 23.  
 Light fixtures, Ceiling plate for electric-. M. B. Bowen. Des. 78,259; Apr. 16.  
 Light fixtures, Loop for electric-. C. W. Logan. Des. 79,152; Aug. 6.  
 Light fixtures, Loop for electric-. G. E. Villaret. Des. 78,068; Mar. 19.  
 Light fixtures, Tassel for electric-. C. W. Logan. Des. 79,150-1; Aug. 6.  
 Light fixtures, Tassel for electric-. C. W. Logan. Des. 79,154; Aug. 6.  
 Light fixtures, Wall plate for electric-. G. E. Villaret. Des. 78,067; Mar. 19.  
 Light fixtures, Wall plate for electric-. G. E. Villaret. Des. 78,069; Mar. 19.  
 Light-flashing system. M. H. Shoenberg and L. Schon. 1,732,488; Oct. 22.  
 Light for an automobile, Dome. W. Schnell. Des. 78,232; Apr. 9.  
 Light for an automotive vehicle, Corner. W. Schnell. Des. 80,245; Dec. 31.  
 Light for an automotive vehicle, Dome. W. Schnell. Des. 79,940; Nov. 19.  
 Light for an automotive vehicle, Torchière. W. Schnell. Des. 79,342; Sept. 3.  
 Light for automobiles, Parking and guide. W. H. Miller. 1,736,616; Nov. 19.  
 Light for motion-picture-projecting machines, Framing. A. Dina. 1,718,540; June 25.  
 Light for railway cars, Marker. A. K. Pehrson. 1,738,016; Dec. 3.  
 Light for telephone stands. C. B. Lambert. 1,727,469; Sept. 10.  
 Light for telephones, Dial. E. C. Buchanan. 1,728,852; Sept. 17.  
 Light for the interior of an automobile, Corner. W. Schnell. Des. 77,710; Feb. 12.  
 Light for vehicles, Flexible tail. M. T. Geyser. 1,738,770; Dec. 10.  
 Light for vehicles, Tail. M. T. Geyser. 1,707,003; Mar. 26.  
 Light frame, Dome-. W. C. Devereaux. Des. 77,746; Feb. 19.  
 Light frame, Rear-. W. C. Devereaux. Des. 77,745; Feb. 19.  
 Light frame, Shaded-. W. C. Devereaux. Des. 78,271; Apr. 16.  
 Light indicator, Automobile. J. A. Oya. 1,713,051; May 14.  
 Light, mail box, and house number, Combined outside. H. Lodge. Re17,418; Aug. 27.  
 Light measurement. L. R. Koller. 1,725,651; Aug. 20.  
 Light mounting, Adjustable. C. Sklarek. 1,699,124; Jan. 15.  
 Light mounting, Adjustable. C. Sklarek. 1,719,907; July 9.  
 Light or the like for a vehicle body, Dome. W. Schnell. Des. 79,341; Sept. 3.  
 Light or the like for an automotive vehicle, Dome. W. Schnell. Des. 79,855; Nov. 5.  
 Light-operated apparatus. I. E. McCabe. 1,697,986; Jan. 8.  
 Light outfit, Trouble-. W. J. Mattson. 1,698,643; Jan. 8.  
 Light-print (blue-print) machine. C. L. Funtan. 1,740,293; Dec. 17.  
 Light-projecting device. H. L. Cooke. 1,712,027; May 7.  
 Light-projecting and finding apparatus, Combined. J. Avato. 1,724,869; Aug. 13.  
 Light-projecting device. C. A. B. Halvorson, jr. 1,711,479-80; Apr. 30.  
 Light-projecting machine. J. W. and K. Brenkert. 1,738,941; Dec. 10.  
 Light-projection system. F. A. Benford. 1,716,756; June 11.  
 Light projector. P. S. Bailey. 1,717,301; June 11.  
 Light projector. F. A. Benford. 1,726,379; Aug. 27.  
 Light projector. W. M. Cassetty, jr., W. C. Alford, and F. L. Ross. 1,731,125; Oct. 8.  
 Light projector. S. L. Lebby. 1,740,609; Dec. 24.  
 Light projector. W. M. Steward and H. C. Block. 1,734,834; Nov. 5.  
 Light projectors, Modifier for. F. Off Unglaub and J. C. Schmid. 1,732,669; Oct. 22.  
 Light-ray protector and holder. L. H. Barringer. 1,720,199; July 9.  
 Light rays to accomplish physical work, Transmutation of visible. I. E. McCabe. 1,733,615; Oct. 29.  
 Light-reflecting screen and making the same. H. D. North. 1,720,232; July 9.  
 Light-reflecting unit. B. H. Reeves. 1,725,766; Aug. 27.  
 Light reflector, Asymmetrical. N. Lang. 1,732,582; Oct. 22.  
 Light screen. E. E. Richardson. 1,709,951; Apr. 23.  
 Light-sensitive electric device. J. L. Baird. 1,697,451; Jan. 1.  
 Light shield. R. G. Nicholas. 1,739,177; Dec. 10.  
 Light shield. A. W. Riches. 1,732,534; Oct. 22.  
 Light signal. R. M. Gilson. 1,728,558; Sept. 17.  
 Light signal. W. K. Howe. 1,730,325; Oct. 1.  
 Light signal. C. S. Snavely. 1,697,668; Jan. 1.  
 Light signal, Color. P. D. Brown. 1,730,316; Oct. 1.  
 Light signal, Railway. E. A. Everett. 1,705,724; Mar. 19.  
 Light source, Variable. V. K. Zworykin. 1,700,647; Apr. 16.  
 Light to penetrate foggy atmosphere, Enabling. F. A. Wright. 1,742,116; Dec. 31.  
 Light-treatment apparatus. N. E. Goodrich. 1,717,447; June 18.  
 Light-treatment apparatus. N. E. Goodrich. 1,739,509; Dec. 17.  
 Lighter. H. Brandes. Des. 78,334; Apr. 23.  
 Lighter. K. Schreer. 1,738,451; Dec. 3.  
 Lighter. S. Segal. 1,720,448; July 9.  
 Lighter. H. Shapiro. 1,699,861; Jan. 22.  
 Lighter. H. Shapiro. 1,740,628; Dec. 24.  
 Lighter and base, Combined pyrophoric. L. V. Aronson. Des. 80,011; Dec. 3.  
 Lighter and cane, Combined. A. R. Visitacion. 1,719,458; July 2.  
 Lighter and cigarette holder, Combination pocket. C. H. Lawrence. Des. 80,179; Dec. 24.  
 Lighter and lamp switch, Combined pendant cigar and cigarette. A. W. Franklin. Des. 78,513; May 14.  
 Lighter and windshield heater, Combined cigar. B. F. Oishel. 1,707,681; Apr. 2.  
 Lighter, Automatic. J. Rosenthal. Des. 80,188; Dec. 24.  
 Lighter, Automatic cigar. W. Drake and D. Szantay. 1,699,655; Jan. 22.  
 Lighter, Automatic gas-stove. A. A. Weisberger. 1,717,749; June 18.  
 Lighting apparatus. W. A. Dorey. 1,740,229; Dec. 17.  
 Lighter, Cigar. J. R. Ayotte. 1,708,408; Apr. 9.  
 Lighter, Cigar. E. E. Bosca. Des. 79,785; Nov. 5.  
 Lighter, Cigar. W. Budds. 1,722,126; July 23.  
 Lighter, Cigar. J. H. Cohen. 1,710,348; Apr. 23.  
 Lighter, Cigar. R. A. Cromwell. Des. 78,877; July 2.  
 Lighter, Cigar. H. Esterow. 1,737,964; Dec. 3.  
 Lighter, Cigar. J. Freud. 1,699,058; Jan. 15.



- Lighter, Cigar. C. Hardy. 1,734,465; Nov. 5.  
 Lighter, Cigar. A. F. Langos. 1,697,686; Jan. 1.  
 Lighter, Cigar. A. F. Langos. 1,719,228; July 2.  
 Lighter, Cigar. S. B. Lavick. 1,728,292; Sept. 17.  
 Lighter, Cigar. H. E. Mead. 1,736,544; Nov. 19.  
 Lighter, Cigar. S. E. Quinn. Des. 78,749; June 18.  
 Lighter, Cigar. J. M. Redinger. 1,739,259; Dec. 10.  
 Lighter, Cigar. K. Schieder. 1,731,062; Oct. 8.  
 Lighter, Cigar. J. W. Schulze. 1,741,956; Dec. 31.  
 Lighter, Cigar. E. B. Wilber. 1,720,534; July 9.  
 Lighter, Cigar. L. L. Winters. 1,701,650; Feb. 12.  
 Lighter, Cigar. S. L. Wolfson and C. C. Schoen. 1,732,784; Oct. 22.  
 Lighter, Cigar and cigarette. N. E. Hammerstrom. 1,740,089; Dec. 17.  
 Lighter, Cigar and cigarette. A. L. Ogden. 1,733,748; Oct. 29.  
 Lighter, Cigar and cigarette. E. M. Townsend. Des. 77,990; Mar. 12.  
 Lighter, Cigarette. I. Florman. Des. 79,452; Sept. 17.  
 Lighter, Cigarette. W. B. Weaver. 1,727,002; Sept. 3.  
 Lighter, Cigarette and cigar. F. D. Doubleday. 1,713,595; May 21.  
 Lighter, Electric. C. W. Johnson. 1,717,565; June 18.  
 Lighter, Electric. C. E. Vawter. Des. 80,010; Nov. 26.  
 Lighter, Electric cigar. B. F. Muldoon. 1,719,942; July 9.  
 Lighter, Electric cigar. A. Schoeller. Re17,436; Sept. 17.  
 Lighter, Electric cigar. A. Schoeller. Des. 17,460; Oct. 15.  
 Lighter, Electric cigar. S. L. Wolfson. 1,701,458; Feb. 5.  
 Lighter, Flint. I. Lozoff. 1,704,091; Mar. 5.  
 Lighter for cigars, cigarettes, and the like. H. T. Schiff. Des. 80,053; Dec. 3.  
 Lighter for gas burners. A. F. Glass. 1,705,759; Mar. 19.  
 Lighter for gas-stove burners, Safety. E. A. Finn. 1,731,197; Oct. 8.  
 Lighter for gas stoves or the like, Safety. F. L. Spinola. 1,714,931; May 28.  
 Lighter or similar article. L. V. Aronson. Des. 80,214; Dec. 31.  
 Lighter or similar article, Automatic. H. T. Schiff. Des. 78,315; Apr. 16.  
 Lighter or similar article, Cigar. C. Harris. Des. 80,224; Dec. 31.  
 Lighter or similar article, Desk. H. T. Schiff. Des. 77,861; Feb. 26.  
 Lighter, Pocket. L. Bruckmann. 1,700,021; Jan. 22.  
 Lighter, Pocket. E. F. Clark. 1,700,486; Jan. 29.  
 Lighter, Pocket. B. Currin. 1,728,395; Sept. 17.  
 Lighter, Pocket. R. S. Knapp. 1,702,121; Feb. 12.  
 Lighter, Pocket. R. S. Knapp. 1,715,931; June 4.  
 Lighter, Pocket. A. J. Lederer. Des. 80,180; Dec. 24.  
 Lighter, Pocket. A. Long. 1,728,866; Sept. 17.  
 Lighter, Pocket. C. H. Patten. 1,736,358; Nov. 19.  
 Lighter, Pocket. E. Sutherland. Des. 78,545; May 14.  
 Lighter, Pocket cigar. W. J. Butler. Des. 77,668; Feb. 12.  
 Lighter, Pocket cigar. E. T. Patnaude. 1,726,237; Aug. 27.  
 Lighter, Pocket cigar. K. N. Schieder. 1,717,941; June 18.  
 Lighter, Pocket or pyrophoric. J. Quercia. 1,702,947; Feb. 19.  
 Lighter, Portable. G. Bettini. 1,740,568; Dec. 24.  
 Lighter, Portable. D. W. Greene. 1,703,033; Feb. 19.  
 Lighter, Portable. D. W. Greene. 1,717,205; June 11.  
 Lighter, Portable. D. W. Greene. 1,718,902; June 25.  
 Lighter, Pyrophoric. L. Douglas. 1,718,038; June 18.  
 Lighter, Pyrophoric. L. F. Douglass. 1,725,901; Aug. 27.  
 Lighter tip, Cigar. J. Sinko. 1,697,615; Jan. 1.  
 Lighters and for similar purposes, Device for filling mechanical flint. V. Dunhill. 1,728,154; Sept. 10.  
 Lighters, Filling device for. C. T. Marsh. 1,734,388; Nov. 5.  
 Lighters, Filling device for cigar and cigarette. J. Gastman. 1,738,181; Dec. 3.  
 Lighters, trouble lamps, etc., Attachment for cigar. C. H. Cuno. 1,723,645; Aug. 6.  
 Lighting and ignition apparatus. J. H. Hunt. 1,700,892; Feb. 5.  
 Lighting and ignition switch. E. A. Bohlman. 1,727,957; Sept. 10.  
 Lighting and signaling mechanism for automotive vehicles, Combined. G. L. Cragg. 1,710,407; Apr. 23.  
 Lighting apparatus, Theater. L. C. Doane. 1,711,263; Apr. 30.  
 Lighting appliance. L. Zweig. Des. 78,996-7; July 16.  
 Lightning arrester. L. R. Golladay and I. R. Smith. 1,728,559; Sept. 17.  
 Lighting attachment, Electric. W. J. Barber. 1,731,241; Oct. 15.  
 Lighting attachment for cigarettes. N. Mednikoff and L. Libethson. 1,723,877; Aug. 6.  
 Lighting control apparatus, Theater. J. C. Masek. 1,736,454; Nov. 19.  
 Lighting device. J. S. Barlow. 1,735,103; Nov. 12.  
 Lighting device. H. P. Lewensohn. 1,726,907; Sept. 3.  
 Lighting device. J. L. Smith. 1,735,018; Nov. 12.  
 Lighting device, Automatic automobile. D. S. Kniznik. 1,710,879; Apr. 30.  
 Lighting device, Electric. R. Eckstein and M. Polis. 1,722,737; July 30.  
 Lighting device, Electric. E. C. White. 1,733,567; Oct. 29.  
 Lighting device, Electric gas. J. W. Mayo. 1,735,834; Nov. 12.  
 Lighting device for autos, Automatic. A. Parker. 1,723,882; Aug. 6.  
 Lighting device, Portable. H. Rogovin. 1,721,639; July 23.  
 Lighting device, Portable. H. Rogovin. 1,725,936; Aug. 27.  
 Lighting equipment, Car. S. Johnson. 1,714,092; May 21.  
 Lighting fixture. A. B. Allworth. 1,698,708; Jan. 15.  
 Lighting fixture. T. V. Balch. 1,702,888; Feb. 19.  
 Lighting fixture. H. E. Bohl. Des. 78,608-9; May 28.  
 Lighting fixture. H. E. Bohl. Des. 78,612; May 28.  
 Lighting fixture. G. W. Burton. 1,709,931; Apr. 23.  
 Lighting fixture. S. Czapek. Des. 78,807; June 25.  
 Lighting fixture. T. Dahl. Des. 77,815; Feb. 26.  
 Lighting fixture. L. C. Doane. 1,730,810; Oct. 8.  
 Lighting fixture. L. C. Doane. 1,735,997; Nov. 19.  
 Lighting fixture. C. P. English. 1,719,835; July 9.  
 Lighting fixture. C. W. Flood, Jr. Des. 79,705; Oct. 29.  
 Lighting fixture. J. W. Foster. Des. 79,229; Aug. 20.  
 Lighting fixture. E. F. Guth. 1,698,016; Jan. 8.  
 Lighting fixture. H. V. Henderson. Des. 79,366-9; Sept. 10.  
 Lighting fixture. W. W. Kantack. 1,731,669; Oct. 15.  
 Lighting fixture. L. Lazar. 1,700,590; Jan. 29.  
 Lighting fixture. J. C. Lowry. Des. 78,215; Apr. 9.  
 Lighting fixture. F. W. Mathieu. Des. 80,182; Dec. 24.  
 Lighting fixture. G. Merkle. Des. 79,199; Aug. 13.  
 Lighting fixture. W. Mosser. 1,718,755; June 25.  
 Lighting fixture. T. J. Nelson. 1,737,018; Nov. 26.  
 Lighting fixture. T. J. Nelson and E. H. Joseph. 1,737,017; Nov. 26.  
 Lighting fixture. A. J. D. Ohm. Des. 79,043-6; July 23.  
 Lighting fixture. A. J. D. Ohm. Des. 79,478; Sept. 24.  
 Lighting fixture. A. J. D. Ohm. 1,737,265; Nov. 26.  
 Lighting fixture. E. F. Oliver. 1,738,666; Dec. 10.  
 Lighting fixture. H. Plant. Des. 80,088; Dec. 10.  
 Lighting fixture. C. Richter. Des. 80,141; Dec. 17.  
 Lighting fixture. I. Rosenblatt. Des. 78,899; July 2.  
 Lighting fixture. I. Rosenblatt. Des. 79,164-5; Aug. 6.  
 Lighting fixture. I. Rosenblatt. Des. 79,241-5; Aug. 20.  
 Lighting fixture. I. Rosenblatt. Des. 79,247-8; Aug. 20.  
 Lighting fixture. I. Rosenblatt. Des. 79,250-4; Aug. 20.  
 Lighting fixture. I. Rosenblatt. Des. 79,307; Aug. 27.  
 Lighting fixture. I. Rosenblatt. Des. 79,441; Sept. 17.  
 Lighting fixture. I. Rosenblatt. Des. 79,530; Oct. 1.  
 Lighting fixture. J. Rumpf. 1,738,671; Dec. 10.  
 Lighting fixture. J. Schaffer. 1,729,730; Oct. 1.  
 Lighting fixture. L. Schepmoes. Des. 79,763; Oct. 29.  
 Lighting fixture. H. Schreibman. Des. 78,902; July 2.  
 Lighting fixture. H. Schreibman and L. Goldberg. Des. 77,503; Jan. 15.  
 Lighting fixture. H. Shardlow. 1,730,693; Oct. 8.  
 Lighting fixture. P. W. Sprecher. 1,714,110; May 21.  
 Lighting fixture. O. S. Strom. Des. 77,510; Jan. 15.  
 Lighting fixture. A. K. Sutherland. 1,720,303; July 9.  
 Lighting fixture. D. N. Thompson. 1,737,622; Dec. 3.  
 Lighting fixture. F. Trombatura. Des. 79,172; Aug. 6.  
 Lighting fixture. N. Ureles. 1,725,028; Aug. 20.  
 Lighting fixture. N. L. Ureles. 1,741,171; Dec. 31.  
 Lighting fixture. F. Wagner. 1,707,829; Apr. 2.  
 Lighting fixture. J. F. Wenz. 1,738,129; Dec. 3.  
 Lighting fixture and cigarette lighter, Combined electric. A. W. Franklin. 1,728,049; Sept. 10.  
 Lighting fixture and stand, Combined. M. Kiwad and S. Thau. Des. 79,970; Nov. 26.  
 Lighting fixture and the like. D. Holt. 1,717,035; June 11.  
 Lighting fixture and the like. D. Holt. 1,717,106; June 11.  
 Lighting fixture and the like. D. Holt. 1,741,301; Dec. 31.  
 Lighting fixture arm or article of analogous nature. J. Di Gaudio. Des. 78,923-4; July 9.  
 Lighting fixture backplate or article of analogous nature. A. R. Krause. Des. 77,418; Jan. 8.  
 Lighting fixture base or article of analogous nature. P. Cricchio. Des. 78,268-9; Apr. 16.  
 Lighting fixture brace or article of analogous nature. J. Di Gaudio. Des. 79,070; July 30.  
 Lighting fixture brace or article of analogous nature. J. Novin. Des. 78,221; Apr. 9.  
 Lighting fixture bracket. H. E. Bohl. Des. 78,607; May 28.  
 Lighting fixture bracket. H. E. Bohl. Des. 78,611; May 28.  
 Lighting fixture bracket. I. Rosenblatt. Des. 79,246; Aug. 20.  
 Lighting fixture bracket. I. Rosenblatt. Des. 79,249; Aug. 20.  
 Lighting fixture bracket. I. Rosenblatt. Des. 79,255-6; Aug. 20.  
 Lighting fixture bracket. H. Schreibman and L. Goldberg. Des. 77,502; Jan. 15.  
 Lighting fixture bracket. H. Schreibman and L. Goldberg. Des. 77,504; Jan. 15.  
 Lighting fixture, Bracket. O. S. Strom. Des. 77,509; Jan. 15.  
 Lighting fixture bracket or article of analogous nature. W. von Nessen. Des. 80,251; Dec. 31.  
 Lighting fixture, Bridge arm for an electric. M. Boltuch. Des. 78,435; May 7.  
 Lighting fixture, Canopy. C. G. Lohman. 1,715,769; June 4.  
 Lighting fixture canopy or analogous article. G. H. Altbach. Des. 77,517; Jan. 22.



- Lighting fixture, Ceiling. G. E. Villaret. Des. 79,865; Nov. 5.
- Lighting-fixture ceiling unit and holder. O. S. Strom. Des. 78,665; May 28.
- Lighting-fixture chandelier. G. E. McFadden. Des. 78,476; May 7.
- Lighting-fixture dome. A. R. Krause. Des. 77,417; Jan. 8.
- Lighting fixture, Electric. A. C. Recker. 1,712,007; May 7.
- Lighting fixture, Electrical. H. H. Melaun. Des. 79,158; Aug. 6.
- Lighting fixture, Electrical. E. C. White. 1,735,068; Nov. 12.
- Lighting fixture for operating rooms. E. F. Guth. 1,712,268; May 7.
- Lighting-fixture globe. A. R. Krause. Des. 78,523; May 14.
- Lighting fixture, Hanging. O. S. Strom. Des. 78,847; June 25.
- Lighting fixture, Modernistic indirect electric. F. Gunnison. Des. 78,750; June 18.
- Lighting fixture, Multiduted. A. Lazerson. Des. 79,375; Sept. 10.
- Lighting fixture of the electric-candle type. G. J. Meuer. 1,703,279; Feb. 26.
- Lighting fixture or similar article, Decorative metal panel for an electric. G. E. McFadden. Des. 77,972; Mar. 12.
- Lighting-fixture part or analogous article. J. Grossman. Des. 77,829; Feb. 26.
- Lighting-fixture plate or analogous article. G. H. Altbach. Des. 77,518; Jan. 22.
- Lighting-fixture plate or article of analogous nature. A. R. Krause. Des. 77,416; Jan. 8.
- Lighting-fixture plate or article of analogous nature. M. Rotellini. Des. 77,914; Mar. 5.
- Lighting-fixture plate or article of analogous nature. G. E. Villaret. Des. 77,798; Feb. 19.
- Lighting-fixture plate or article of analogous nature. L. Zweig. Des. 79,451; Sept. 17.
- Lighting fixture, Side-wall. R. W. Schweiker. Des. 79,672; Oct. 22.
- Lighting-fixture spindle or article of analogous nature. N. Lipsky. Des. 78,034; Mar. 19.
- Lighting fixture, Stanchion element for an electric. M. Boltuch. Des. 78,436; May 7.
- Lighting-fixture strap or article of analogous nature. G. E. Villaret. Des. 78,677; May 28.
- Lighting-fixture streamer or article of analogous nature. M. S. Rotellini. Des. 79,986; Nov. 26.
- Lighting fixture, Street. G. R. Harris. 1,709,218; Apr. 16.
- Lighting fixture, Street. A. G. Steinmayer. 1,734,056; Nov. 5.
- Lighting-fixture wall bracket. G. E. McFadden. Des. 78,477; May 7.
- Lighting-fixture wall bracket. G. E. McFadden. Des. 78,774; June 18.
- Lighting-fixture wall bracket. J. Novin. Des. 78,220; Apr. 9.
- Lighting-fixture wall bracket or article of analogous nature. G. E. Villaret. Des. 77,799; Feb. 19.
- Lighting-fixture wall bracket or the like. G. E. McFadden. Des. 78,219; Apr. 9.
- Lighting-fixture wall bracket or the like. G. E. McFadden. Des. 78,302; Apr. 16.
- Lighting fixtures or similar articles, Wall plate for. H. R. Holdeman. Des. 80,121; Dec. 17.
- Lighting means. G. H. Hamilton. Re17,485; Nov. 12.
- Lighting mechanism, Burner. A. E. Paige. 1,725,296; Aug. 20.
- Lighting objects for the ultramicroscope, Apparatus for. C. Spierer. 1,724,527; Aug. 13.
- Lighting of vehicles. L. Gaston. 1,716,690; June 11.
- Lighting standard. R. W. Erskine. Des. 79,273; Aug. 20.
- Lighting standard, Street. C. H. Cunningham. Des. 77,533; Jan. 22.
- Lighting standards, Head for. R. W. Erskine. Des. 79,650; Oct. 22.
- Lighting system, Emergency. M. H. Landis. 1,710,542; Apr. 23.
- Lighting system for vehicles. R. S. Moore. 1,698,767; Jan. 15.
- Lighting, System of street and vehicle. J. Borel. 1,713,737; May 21.
- Lighting system, Remote-control. G. G. Thompson. 1,730,794; Oct. 8.
- Lighting system, Stabilized vacuum-tube. L. L. Beck. 1,739,498; Dec. 17.
- Lighting system, Street. S. B. Hood. 1,716,271; June 4.
- Lighting system, Subheadlight. Q. L. Fry. 1,716,546; June 11.
- Lighting systems, Controlling device for electric. P. L. Williamson. 1,736,474; Nov. 19.
- Lighting switch. H. E. Norviel. 1,734,226-7; Nov. 5.
- Lighting unit. O. Werner. 1,735,149; Nov. 12.
- Lighting unit, Electric. R. G. Stephens. 1,737,030; Nov. 26.
- Lighting unit, Two-lamp. R. W. Erskine. 1,732,745; Oct. 22.
- Lighting units, Head for. R. W. Erskine. Des. 79,920; Nov. 19.
- Lightning arrester. A. L. Atherton. 1,714,255; May 21.
- Lightning arrester. E. A. Ermold. 1,704,701; Mar. 12.
- Lightning arrester. N. A. Lougee. 1,723,872; Aug. 6.
- Lightning arrester. J. Slepian. 1,734,235; Nov. 5.
- Lightning arrester. F. S. Smith. 1,717,589; June 18.
- Lightning arrester. G. Steerup. 1,711,816; May 7.
- Lightning arrester. L. H. Whitney. 1,717,292; June 11.
- Lightning arrester, Spark-gap. E. A. Everett. 1,714,552; May 28.
- Lightning-arrester unit. L. R. Golladay. 1,734,208; Nov. 5.
- Lights for projectors, Control of arc. T. Hall. 1,701,481; Feb. 5.
- Lignite from sand and gravel, Separating. J. W. Reid. 1,723,372; Aug. 6.
- Lima-bean cleaner. H. P. Taylor. 1,731,115; Oct. 8.
- Limb, Artificial. E. Blevens. 1,732,220; Oct. 22.
- Limb, Artificial. D. W. Dorrance. 1,740,230; Dec. 17.
- Limb, Artificial. J. H. Kosek. 1,725,588; Aug. 20.
- Limb, Artificial. W. J. Wilson. 1,722,727; July 30.
- Lime and producing hydrate of lime, Slaking. W. H. Barton. 1,720,026; July 9.
- Lime, Calcining. K. M. Nahkian, R. W. Foster, and E. T. Belden. 1,709,226; Apr. 16.
- Lime distributor. A. F. Cotner. 1,733,722; Oct. 29.
- Lime-hardening composition and making the same. D. M. Harrison. 1,718,955; July 2.
- Lime product and making the same, Quick-setting. C. C. Loomis and A. D. MacDonald. 1,732,409; Oct. 22.
- Limestone, Preparing. W. E. Carson. 1,721,803; July 23.
- Lincrusta and making the same. M. K. Huppuch. 1,702,161; Feb. 12.
- Line and weight attachment for fish baits. F. E. Comstock. 1,733,777; Oct. 29.
- Line-casting machine. S. E. Sperry. 1,727,314; Sept. 3.
- Line clamp. P. Yannetta. 1,705,167; Mar. 12.
- Line clamp, Wire. F. E. Crotto. 1,728,173; Sept. 17.
- Line float for casting. F. C. A. L. Stackelberg. 1,707,820; Apr. 2.
- Line hanger. C. J. Henryson. 1,697,977; Jan. 8.
- Line pole and constructing same. D. S. Young. 1,711,217; Apr. 30.
- Line spacer, Variable. E. T. Harney. Re17,333; June 25.
- Line tightener. P. Ciferskor. 1,725,130; Aug. 20.
- Lineameter. R. E. Reed. 1,699,207; Jan. 15.
- Linen and making it, Imitation. R. Miret. 1,721,082; July 16.
- Linen, Manufacture of half. N. Vohs. 1,724,628; Aug. 13.
- Liner, Adjustable. C. H. Allan. 1,718,727; June 25.
- Liner, Floating air. S. M. Lindstrand. 1,710,423; Apr. 23.
- Liner for centrifugal pumps. G. R. Harris. 1,735,754; Nov. 12.
- Liner for egg crates, Air-tight. R. A. McDonald. 1,737,319; Nov. 26.
- Liner for jars. T. L. Taliaferro. 1,739,530; Dec. 17.
- Liner for jet conveyers, Impact. E. Hahn. 1,710,577; Apr. 23.
- Liner for shoes, Counter. J. D. Langdon. 1,711,851; May 7.
- Liner gauge. G. L. Popay. 1,732,201; Oct. 15.
- Liner or inner tube for tobacco pipes, cigar, and cigarette tubes, Absorbent. M. H. Barling. 1,738,554; Dec. 10.
- Liner, Track. J. E. Varner. 1,710,597; Apr. 23.
- Lingerie clasp. S. E. Burke. 1,723,130; Aug. 6.
- Lingerie clasp. E. W. Carlson and C. L. Cole. 1,718,524; June 25.
- Lingerie clasp. F. I. Hoffman. 1,718,559; June 25.
- Lingerie clasp. M. E. Kintz. 1,707,402; Apr. 2.
- Lingual bar. L. Lelong. 1,732,021; Oct. 15.
- Lining and forming same, Friction. T. L. Gatke. 1,738,291; Dec. 3.
- Lining, Detachable ventilated adjustable hat. A. Hawkins. 1,716,269; June 4.
- Lining-felling machine. C. W. Mueller. 1,739,080; Dec. 10.
- Lining for brakes, clutches, and the like. C. D. Schmidt. 1,716,090; June 4.
- Lining for combustion chambers. W. W. Burns. 1,710,860; Apr. 30.
- Lining for furnaces or stoves. F. N. Williams. 1,699,728; Jan. 22.
- Lining for hot-gas-carrying conduits. M. E. Cushing. 1,733,403; Oct. 29.
- Lining of iron and steel pipes, tubes, and other hollow bodies. C. G. Atha. 1,737,446; Nov. 26.
- Lining pad. A. M. Pohlman. 1,705,267; Mar. 12.
- Lining tubes. G. A. Small. 1,717,588; June 18.
- Lining tunnels with concrete and apparatus therefor. R. C. Hackley. 1,716,125; June 4.
- Link, Auxiliary. K. A. Dahlgren and K. E. Dahlgren. 1,726,654; Sept. 3.
- Link, Chain. S. D. Locke. 1,699,400; Jan. 15.
- Link, Chain. J. R. Reyburn. 1,739,522; Dec. 17.
- Link, Connecting. N. Alexander. 1,721,801; July 23.
- Link, Connecting. H. T. Stokes. 1,714,053; May 21.
- Link construction, Loose. C. A. Goodspeed. 1,718,348; June 25.
- Link, Emergency repair. R. R. Roth. 1,734,830; Nov. 5.
- Link for jewelry, Metal. F. Rettenmeyer. Des. 79,567; Oct. 8.
- Link for tire chains, Connecting. H. Hanson. 1,717,558; June 18.
- Link, Insulator suspension. M. F. H. Gouverneur. 1,712,556; May 14.
- Link liner. M. F. H. Gouverneur. 1,712,557; May 14.
- Link resilient body, Multiple. D. Marinsky. 1,739,976; Dec. 17.
- Link, Snap. J. H. Loisselle and N. B. Cohen. 1,739,848; Dec. 17.



- Link structure, Ornamental. F. Speidel. 1,718,765; June 25.
- Link, Suspender-end top. L. W. Shields. Des. 79,912; Nov. 12.
- Link, Suspender-end top. H. C. Vaisey. Des. 79,914; Nov. 12.
- Link, Two-piece chain. A. G. Lawson. 1,699,793; Jan. 22.
- Linkage for front-wheel-braked motor cars, Stabilizing. G. Cappa. 1,719,390; July 2.
- Linkage for fuel pumps. F. N. Nutt. 1,738,790; Dec. 10.
- Linking machine. A. L. N. Fleming. 1,705,246; Mar. 12.
- Linoleum and product thereof, Making. A. W. Veit. 1,741,488; Dec. 31.
- Linoleum and the product thereof, Making inlaid. C. G. H. Glaeser. 1,738,887; Dec. 10.
- Linoleum, Inlaid. A. E. Clarke. 1,702,630; Feb. 19.
- Linoleum or similar hard-surface covering. F. Cartwright. Des. 78,443-4; May 7.
- Linoleum or similar hard-surfaced floor covering. G. M. Fauser. Des. 78,738; June 18.
- Lintotype machines, Space band for. D. S. Kennedy. 1,702,782; Feb. 19.
- Lint cleaner, Warper. H. A. Davis. 1,703,852; Feb. 26.
- Lint clearer for filling stop motions. A. A. Gordon. 1,734,086; Nov. 5.
- Lintel construction. J. F. Makowski. 1,739,684; Dec. 17.
- Lip-marking guide. R. E. Kirk. 1,704,290; Mar. 5.
- Lip stick. G. F. Anderson. 1,732,875; Oct. 22.
- Lip-turning machine. F. E. Bertrand. 1,705,603; Mar. 19.
- Lip-turning machine. W. C. Meyer. 1,712,929; May 14.
- Lip-turning machine. F. Ricks. 1,715,570; June 4.
- Liquefied rubber compositions and making same. H. P. Butler. 1,710,470; Apr. 23.
- Liquefier for preparing stone for bitumen coating. S. S. Sadtler. 1,739,652; Dec. 17.
- Liquid and gas, Apparatus for mixing. K. Chogo. 1,740,441; Dec. 24.
- Liquid and moisture extractor. M. G. Voightlander. 1,726,873; Aug. 27.
- Liquid-applying and polishing device. G. J. Fraser. 1,729,934; Oct. 1.
- Liquid coating composition. W. H. Woodford. 1,733,177; Oct. 29.
- Liquid-collecting system. G. G. Earl. 1,710,048; Apr. 23.
- Liquid composition for and method of treating leather. W. E. Lane. 1,720,223; July 9.
- Liquid-control mechanism. R. M. Parsons. 1,737,171; Nov. 26.
- Liquid cooler. J. D. Beck. 1,720,163; July 9.
- Liquid cooler. H. J. Irwin. 1,705,117; Mar. 12.
- Liquid delivery and pumping apparatus. P. Libby. 1,737,929; Dec. 3.
- Liquid-delivery device. F. and D. J. Pilmore-Bedford. 1,727,743; Sept. 10.
- Liquid-delivery system. G. W. Stedwell. Re17,294; May 14.
- Liquid dispenser. G. A. Bobrick. 1,697,302; Jan. 1.
- Liquid dispenser. G. S. Eldred. 1,712,790; May 14.
- Liquid dispenser. M. W. Felver and R. A. Johnson. 1,707,462; Apr. 2.
- Liquid dispenser. O. Lange. 1,718,567; June 25.
- Liquid dispenser. W. H. Sanford. 1,720,610; July 9.
- Liquid dispenser. Coil-controlled. M. W. Felver. 1,710,924; Apr. 30.
- Liquid dispensing. G. W. Stedwell. 1,713,102; May 14.
- Liquid-dispensing apparatus. L. E. Baker. 1,712,323; May 7.
- Liquid-dispensing apparatus. W. F. Brandt. 1,715,553; June 4.
- Liquid-dispensing apparatus. J. B. Davis. 1,737,996; Dec. 3.
- Liquid-dispensing apparatus. F. W. Delanoy. 1,715,539; June 4.
- Liquid-dispensing apparatus. E. E. Eickmeyer. 1,715,552; June 4.
- Liquid-dispensing apparatus. E. E. Eickmeyer. 1,716,541; June 11.
- Liquid-dispensing apparatus. E. E. Eickmeyer. 1,717,101; June 11.
- Liquid dispensing apparatus. J. P. Hanna. 1,738,701; Dec. 10.
- Liquid-dispensing apparatus. A. P. Hitzeman. 1,715,554; June 4.
- Liquid-dispensing apparatus. A. P. Hitzeman. 1,740,348; Dec. 17.
- Liquid-dispensing apparatus. T. B. Smith. 1,711,331; Apr. 30.
- Liquid-dispensing device. A. J. Moisant. 1,711,900; May 7.
- Liquid-dispensing device. L. A. Pray. 1,712,470; May 7.
- Liquid-dispensing device. C. R. Schott. 1,708,240; Apr. 9.
- Liquid-dispensing machine. B. Freedman. 1,712,819; May 14.
- Liquid-dispensing machine. F. T. Robert. 1,738,319; Dec. 3.
- Liquid-dispensing mechanism. W. H. Parker and F. W. Delanoy. 1,736,981; Nov. 26.
- Liquid-dispensing station. E. R. Shaw. 1,728,771; Sept. 17.
- Liquid-dispensing unit. W. E. Milestone. 1,715,939; June 4.
- Liquid distribution. E. J. Autrey. 1,722,884; July 30.
- Liquid distributor and bearing. T. W. Dahllorf. 1,723,014; Aug. 6.
- Liquid dropper. P. J. MacAuley. 1,698,340; Jan. 8.
- Liquid-elevating system. C. H. Braselton. 1,724,178; Aug. 13.
- Liquid elevator. C. T. Weymann. 1,703,973; Mar. 5.
- Liquid employed in internal-combustion engines, Indicating conditions of. J. F. Key. 1,730,734; Oct. 8.
- Liquid-feed system. C. L. Stokes. 1,720,248; July 9.
- Liquid-feed system. C. L. Stokes. 1,736,100; Nov. 19.
- Liquid-feed tank. J. A. Heany. 1,724,350; Aug. 13.
- Liquid-feeding device. F. W. Hvoslef. 1,709,576; Apr. 16.
- Liquid for accumulators. G. Schmaus. 1,722,343; July 30.
- Liquid-fuel-admission device for internal-combustion engines. A. E. L. Chorlton. 1,720,657; July 16.
- Liquid-fuel apparatus. A. E. Grant. 1,699,467; Jan. 15.
- Liquid fuel, Apparatus employing gasified. E. Deodato. 1,697,054; Jan. 1.
- Liquid-fuel burner. B. Seabolt. 1,701,218; Feb. 5.
- Liquid-fuel burner. H. M. Webster. 1,697,254; Jan. 1.
- Liquid-fuel burner. L. T. Wilcox. 1,717,484; June 18.
- Liquid fuel, Burning. A. L. Klees. 1,740,249; Dec. 17.
- Liquid-fuel-feeding apparatus. J. Scheminger, jr. 1,716,982; June 11.
- Liquid fuel, Method and apparatus for feeding. J. Scheminger, jr. 1,740,204; Dec. 17.
- Liquid-fuel-supply system. E. A. Reid. 1,699,407; Jan. 15.
- Liquid fuel to internal-combustion engine and for analogous purposes, Apparatus for supplying. A. H. Gibson. 1,700,794; Feb. 5.
- Liquid fuel to internal-combustion engines, Method and apparatus for feeding. M. J. A. Rebillet. 1,739,918; Dec. 17.
- Liquid fuels, Apparatus for storing and dispensing. E. Hurlbrink. 1,740,306; Dec. 17.
- Liquid-handling apparatus. N. B. Gardiner. 1,710,771; Apr. 30.
- Liquid-handling device. W. H. Schulze. 1,720,380; July 9.
- Liquid-handling means. E. W. Davis. 1,735,733; Nov. 12.
- Liquid heater. B. W. Macy. 1,718,865-6; June 25.
- Liquid heater. O. Prollius. 1,699,919; Jan. 22.
- Liquid heater, Electric. R. C. Hoyt. 1,727,881; Sept. 10.
- Liquid heater, Electric. B. W. Macy. 1,729,587; Sept. 24.
- Liquid heater, Electric. A. Martin and F. H. Finnegan. 1,734,335; Nov. 5.
- Liquid heater, Magnetic. R. R. Goshorn. 1,712,207; May 7.
- Liquid in bottles, Apparatus for heating, cooling, or otherwise treating. A. G. Enock. 1,741,925; Dec. 31.
- Liquid into a cavity of the human body, Device for injecting. P. Schlumbohm. 1,731,729; Oct. 15.
- Liquid-level apparatus. Constant. E. E. Johnson. 1,731,928; Oct. 15.
- Liquid-level gauge. R. E. Briggs. 1,732,150; Oct. 15.
- Liquid-level gauge. W. H. Brown. 1,701,769; Feb. 12.
- Liquid-level gauge. C. J. Kryzanowsky. 1,724,716; Aug. 13.
- Liquid-level gauge. H. D. Pownall and F. M. Bennett. 1,709,875; Apr. 23.
- Liquid-level gauge. F. B. Smithe. 1,698,701; Jan. 8.
- Liquid-level gauge. W. W. Watt. 1,707,970; Apr. 2.
- Liquid-level gauge for liquids under high pressure and temperature. C. P. Dubbs. 1,715,062; May 28.
- Liquid level, Indicating. H. H. Welch. 1,725,552; Aug. 20.
- Liquid-level-indicating system. J. D. Sartakoff. 1,699,812; Jan. 22.
- Liquid-level indicator. R. Eisermann. 1,728,961; Sept. 24.
- Liquid-level indicator. G. P. English and J. H. Becker. 1,738,949; Dec. 10.
- Liquid-level indicator. T. M. Eynon. 1,725,573; Aug. 20.
- Liquid-level indicator. T. M. Eynon. 1,725,705; Aug. 20.
- Liquid-level indicator. T. M. Eynon. 1,726,549; Sept. 3.
- Liquid-level indicator. F. H. Farrell. 1,706,958; Mar. 26.
- Liquid-level indicator. W. B. Jarvis. 1,712,796; May 14.
- Liquid-level indicator. A. Koronski. 1,727,545; Sept. 10.
- Liquid-level indicator. F. McNeill. 1,699,075; Jan. 15.
- Liquid-level indicator. F. McNeill. 1,733,616; Oct. 29.
- Liquid-level indicator. G. Reyling and F. L. Platt. 1,737,126; Nov. 26.
- Liquid-level indicator. E. Ryder. 1,713,781; May 21.
- Liquid-level indicator. J. D. Sartakoff. 1,698,969; Jan. 15.
- Liquid-level indicator, Dashboard. T. M. Eynon. 1,729,770; Oct. 1.
- Liquid-level indicator, Dashboard. T. M. Eynon. 1,739,297; Dec. 10.
- Liquid-level or other fluid-flow regulator. G. Campbell. 1,697,342; Jan. 1.
- Liquid-level signal. M. Haines. 1,715,499; June 4.
- Liquid materials, Apparatus for spray drying. P. T. Zizina. 1,730,048; Oct. 1.
- Liquid meter. E. R. Ryder. 1,731,323; Oct. 15.
- Liquid mixtures, Reconstructing. A. Jensen. 1,721,121; July 16.
- Liquid, Process and apparatus for defecating. A. U. Wetherbee. 1,733,324; Oct. 29.
- Liquid purifier, Centrifugal. J. W. Adams. 1,738,553; Dec. 10.
- Liquid purifier, gravity type. I. A. Hills and G. B. Hooton. 1,705,329; Mar. 12.
- Liquid raising plant, Hydropneumatic. J. O. Boving. 1,736,777; Nov. 26.
- Liquid-relief apparatus and method. G. Campbell. 1,697,343; Jan. 1.



- Liquid sampler for tanks. P. H. Osborne. 1,739,731; Dec. 17.
- Liquid-separating apparatus. W. S. Edsall. 1,737,648; Dec. 3.
- Liquid separator. H. S. Coe. 1,709,971; Apr. 23.
- Liquid separator. L. Slaven. 1,720,099; July 9.
- Liquid-shaking apparatus. D. Blain. 1,739,349; Dec. 10.
- Liquid-supply system. J. W. Jackson. 1,705,118; Mar. 12.
- Liquid-treating apparatus. K. W. Bartlett. 1,698,183; Jan. 8.
- Liquid-treating apparatus. A. Jensen. 1,738,954; Dec. 10.
- Liquid warmer. E. S. Neal. 1,705,835; Mar. 19.
- Liquids and solids, Method of and apparatus for separating. W. B. Eddison. 1,720,211; July 9.
- Liquids, Apparatus for elevating. F. G. Kramer. 1,739,511; Dec. 17.
- Liquids, Apparatus for raising. C. Q. Ives. 1,741,571; Dec. 31.
- Liquids at high boiling points, Continuous rectification of. E. A. Barbet. 1,722,322; July 30.
- Liquids from gases, Separator of. T. F. Rochester. 1,731,061; Oct. 8.
- Liquids from wells, Delivering. G. Blow. 1,737,635; Dec. 3.
- Liquids in predetermined quantities, Apparatus for supplying. F. J. Wood and J. Luck. 1,729,200; Sept. 24.
- Liquids of different boiling points and generating power, Simultaneously separating mixed. C. F. Hirshfield. 1,716,130; June 4.
- Liquors or gases, Determining the quantity of flowing. E. Schmidt. 1,702,274; Feb. 19.
- Liquids, Pasteurizing. F. Lassen. 1,724,291; Aug. 13.
- Liquids, Purification of. G. C. Lewis. 1,723,564; Aug. 6.
- Liquor, Production of composite cooking. L. Bradley and E. P. McKeefe. 1,702,587; Feb. 19.
- Liquors and emulsions, Preparing fulling. K. Daimler, G. Balle, and F. Just. 1,715,410; June 4.
- Liquors from acetic acid containing gases, Production of concentrated acetate. E. Löw. 1,726,401; Aug. 27.
- Lister. L. H. Kaupke. 1,722,580; July 30.
- Lister. J. Schermuly. 1,741,794; Dec. 31.
- Lister. W. H. Silver. 1,721,716; July 23.
- Lithographic plate and making same, Intaglio offset. O. Kohn. 1,740,423; Dec. 17.
- Lithographic plate and process of preparation. M. C. Beebe, H. V. Herlinger, and R. A. Swain. 1,740,061; Dec. 17.
- Lithographic presses, Rider and drum for. T. C. Gowans. 1,718,415; June 25.
- Lithopone, Apparatus for calcining. W. J. Lindsay. 1,704,482; Mar. 5.
- Lithopone, Calcining. W. J. Lindsay. 1,704,483; Mar. 5.
- Lithopone composition and making same. J. E. Booge and M. L. Hanahan. 1,722,174; July 23.
- Lithopone, Producing. W. J. O'Brien. 1,709,999; Apr. 23.
- Load and unloading apparatus for furnaces. F. T. Cope. 1,727,050; Sept. 3.
- Load apparatus, Variable. C. C. Farmer. 1,720,266; July 9.
- Load brake, Variable. C. C. Farmer. 1,720,268; July 9.
- Load brake, Variable. C. W. Maliphant. 1,720,284; July 9.
- Load-control system. J. C. Reed. 1,727,131; Sept. 3.
- Load-lifting arrangement. C. D. Bonsall. Re17,302; May 28.
- Load-lifting jack. N. G. Larson. 1,736,202; Nov. 19.
- Load-limiting device, Electric. J. Batchelder. 1,701,715; Feb. 12.
- Load regulation of mechanically-coupled motors. A. A. Pollock. 1,717,852; June 18.
- Load regulator, Maximum-demand-. H. S. Bean. 1,710,681; Apr. 30.
- Load suspension and hoisting mechanism. J. Reaney. 1,731,984; Oct. 15.
- Loader. A. W. Haiss. 1,708,132; Apr. 9.
- Loader agitator for concrete-mixing machines. G. Jaeger. 1,714,601; May 28.
- Loader and conveyer, Shock. L. T. Velen. 1,702,141; Feb. 12.
- Loader and cutter, Potato. J. Novak. 1,719,669; July 2.
- Loader, Automatic skip. C. M. Young, jr. 1,710,794; Apr. 30.
- Loader, Beet. R. Coon. 1,700,922; Feb. 5.
- Loader, Hay. C. L. Whitcher. 1,709,384; Apr. 16.
- Loader, mover, and filter, Carboy. L. W. Schwenk. 1,727,523; Sept. 10.
- Loaders, Pick-up for shock. M. C. Albertsen. 1,700,965; Feb. 5.
- Loading and stacking machine, Hay. D. D. Goodlin. 1,723,506; Aug. 6.
- Loading and transporting bulk material, Apparatus for. R. T. McKeen. 1,697,322; Jan. 1.
- Loading and unloading device for centrifugal extractors. G. W. Johnson. 1,702,904; Feb. 19.
- Loading and unloading device for endless conveyers. Z. H. Bush. 1,706,913; Mar. 26.
- Loading and unloading device for tank cars. W. C. Shanley. 1,739,525; Dec. 17.
- Loading apparatus, Ice-. M. J. Garvey, jr., and F. G. Simpson. 1,705,010; Mar. 12.
- Loading apparatus. M. A. Kendall. 1,708,925; Apr. 9.
- Loading apparatus. N. D. Levin. 1,709,082; Apr. 16.
- Loading apparatus, Wagon-. E. W. Weed. 1,705,431; Mar. 12.
- Loading attachment for hay-baling machines. W. J. Spencer. 1,714,643; May 28.
- Loading attachment for tractors. H. F. Lessmann. 1,725,201; Aug. 20.
- Loading attachment for trucks. G. M. Sacerdote. 1,704,841; Mar. 12.
- Loading boom. A. B. Esseltine. 1,702,563; Feb. 19.
- Loading buildings for moving. G. R. Kress. 1,737,250; Nov. 26.
- Loading device. R. Jantz. 1,707,725; Apr. 2.
- Loading device. J. C. Knapp, jr. 1,733,969; Oct. 29.
- Loading device for grinding machines. E. A. Bayton. 1,720,620; July 9.
- Loading device for work holders. K. F. Gallimore and R. M. Woytych. 1,701,448; Feb. 5.
- Loading device, work-. W. H. Wood. 1,738,027; Dec. 3.
- Loading freight cars. C. M. MacChesney and J. E. Ott. 1,703,495; Feb. 26.
- Loading freight cars. C. M. MacChesney and J. E. Ott. 1,726,709; Sept. 3.
- Loading loose bulk cargoes, Apparatus and method for. L. F. Holly. 1,708,176; Apr. 9.
- Loading machine. R. P. Greenleaf. 1,726,065; Aug. 27.
- Loading machine. N. D. Levin. 1,700,294; Jan. 29.
- Loading machine. E. C. Morgan. 1,729,177; Sept. 24.
- Loading machine. N. A. Newdick. 1,702,519; Feb. 19.
- Loading machine. N. A. Newdick. 1,706,313; Mar. 19.
- Loading machine. N. A. Newdick. 1,715,469; June 4.
- Loading machine. D. Whamond. 1,739,624; Dec. 17.
- Loading mechanism for beets and the like. H. A. Watkins and J. C. Askwig. 1,723,591; Aug. 6.
- Loading packages in bound units. L. F. Hintz. 1,705,059; Mar. 12.
- Loading plant. W. L. Mörtz. 1,741,374; Dec. 31.
- Loading platform. A. B. Patterson. 1,723,885; Aug. 6.
- Loading skip. S. Shafer, jr. 1,723,447; Aug. 6.
- Loading-skip-operating mechanism. G. E. Webb. 1,710,280; Apr. 23.
- Loading system. D. A. Quarles. 1,711,653; May 7.
- Loading system, Compound. N. R. French. 1,741,926; Dec. 31.
- Loading tank cars and the like. H. C. Wiess. 1,735,484; Nov. 12.
- Loaf-inverting mechanism for proofers. F. Streich and W. P. Elwood. 1,710,385; Apr. 23.
- Loaf package and packaging, Sliced baked. G. C. Papendick. 1,722,338; July 30.
- Loebster trap. F. P. Ward and O. J. Gosser. 1,728,645; Sept. 17.
- Locating a light at focal point of lenses. D. J. McCarthy. 1,701,626; Feb. 12.
- Locating boards on book covers, Device for. F. S. Sherman. 1,703,176; Feb. 26.
- Locating instrument. W. W. Riedel. 1,708,191; Apr. 9.
- Locating leaks in well piping, Method and apparatus. P. H. Granger. 1,736,117; Nov. 19.
- Lock. See:
- |                        |                           |
|------------------------|---------------------------|
| Automatic lock.        | Laundry-machinery lock.   |
| Automobile hood lock.  | Ledger lock.              |
| Automobile lock.       | Lever lock.               |
| Bag lock.              | Mort se dead lock.        |
| Bolt and nut lock.     | Mortise knob lock.        |
| Bolt lock.             | Nut lock.                 |
| Book lock.             | Page-end lock.            |
| Box lock.              | Permutation lock.         |
| Brake lock.            | Pin lock.                 |
| Burglar lock.          | Pin-tumbler lock.         |
| Cap lock.              | Primer lock.              |
| Car-door lock.         | Radiator-cap lock.        |
| Carrying-case lock.    | Rail-joint lock.          |
| Casket lock.           | Rail lock.                |
| Chain lock.            | Reel-seat lock.           |
| Clamp-screw lock.      | Remote-controlled lock.   |
| Clock lock.            | Rim and tire lock.        |
| Coin-control lock.     | Rim lock.                 |
| Coin-controlled lock.  | Rope lock.                |
| Coin-operated lock.    | Safety lock.              |
| Combination lock.      | Sash lock.                |
| Corner lock.           | Seal lock.                |
| Coupling lock.         | Shaft lock.               |
| Cover lock.            | Shingle lock.             |
| Cut-out lock.          | Spare-wheel lock.         |
| Cylinder lock.         | Spool-support lock.       |
| Damper lock.           | Steering-column lock.     |
| Desk-drawer lock.      | Steering-wheel lock.      |
| Differential lock.     | Switch lock.              |
| Disk lock.             | Switch-stand lock.        |
| Door lock.             | Tank-cap lock.            |
| Fuse lock.             | Telephone-dial lock.      |
| Galley lock.           | Telephone lock.           |
| Gate lock.             | Tile lock.                |
| Gear lock.             | Tilting-body lock.        |
| Gear-shift-lever lock. | Time lock.                |
| Gravity control lock.  | Tire-chain lock.          |
| Gun lock.              | Tire lock.                |
| Hook lock.             | Tire-rim lock.            |
| Ignition-coil lock.    | Transmission lock.        |
| Ignition lock.         | Trunk-drawer lock.        |
| Joint lock.            | Trunk lock.               |
| Keyhole lock.          | Tumbler lock.             |
| Key lock.              | Valve lock.               |
| Keyless lock.          | Valve-spring-lifter lock. |
| Key-operated lock.     | Vehicle lock.             |
| Lamp lock.             | Wheel lock.               |
- Lock. G. W. Aldeen. 1,724,448; Aug. 13.



- Lock. E. P. Baird. 1,702,488; Feb. 19.  
 Lock. E. P. Baird. 1,725,557; Aug. 20.  
 Lock. F. E. Best. 1,716,914; June 11.  
 Lock. F. E. Best. 1,723,126; Aug. 6.  
 Lock. K. A. Brauning. 1,696,998; Jan. 1.  
 Lock. O. B. Britte. 1,711,082; Apr. 30.  
 Lock. S. M. Bulmeni. 1,735,035; Nov. 12.  
 Lock. C. A. Crenshaw. 1,699,734; Jan. 22.  
 Lock. H. W. Evans. 1,720,590; July 9.  
 Lock. J. A. Fremont. 1,702,430; Feb. 19.  
 Lock. E. Graham. 1,698,790; Jan. 15.  
 Lock. W. F. Hausmann. 1,700,129; Jan. 29.  
 Lock. F. K. Heyer. 1,705,363-4; Mar. 12.  
 Lock. A. Hoffmann. 1,699,190; Jan. 15.  
 Lock. W. E. Horton and A. Caro. Des. 78,208; Apr. 9.  
 Lock. N. B. Hurd. 1,703,845; Feb. 26.  
 Lock. E. N. Jacobi. 1,714,372; May 21.  
 Lock. E. N. Jacobi. 1,714,423-4; May 21.  
 Lock. E. N. Jacobi. 1,724,025; Aug. 13.  
 Lock. E. N. Jacobi. 1,734,333; Nov. 5.  
 Lock. E. N. Jacobi. 1,738,105; Dec. 3.  
 Lock. I. Kemp. 1,729,784; Oct. 1.  
 Lock. B. Kobus. 1,730,662; Oct. 8.  
 Lock. J. Kohn. 1,730,011; Oct. 1.  
 Lock. N. Lanes. 1,700,135; Jan. 29.  
 Lock. M. Leventhal. 1,717,930; June 18.  
 Lock. J. W. Marsden. 1,698,761; Jan. 15.  
 Lock. K. Matuch. 1,730,375; Oct. 8.  
 Lock. L. Maynard. 1,719,335; July 2.  
 Lock. E. R. Menzel. 1,699,370; Jan. 15.  
 Lock. L. Pepper. 1,707,922; Apr. 2.  
 Lock. F. F. Robert. 1,705,340; Mar. 12.  
 Lock. J. A. Rymer. 1,708,593; Apr. 9.  
 Lock. S. Segal. 1,699,757; Jan. 22.  
 Lock. S. Segal. 1,705,270; Mar. 12.  
 Lock. S. Segal. 1,717,942; June 18.  
 Lock. S. Segal. 1,725,543; Aug. 20.  
 Lock. G. H. Sterling. 1,731,508; Oct. 15.  
 Lock. J. Taussig. 1,719,203; July 2.  
 Lock. H. Thelenz. 1,721,676; July 23.  
 Lock. F. E. Thompson. 1,705,344; Mar. 12.  
 Lock. J. Towsty. 1,718,090; June 18.  
 Lock. G. W. Wilder. 1,736,685; Nov. 19.  
 Lock. S. Wise. Des. 77,447; Jan. 8.  
 Lock. S. Wise. 1,741,390; Dec. 31.  
 Lock. O. S. Wright. 1,722,728; July 30.  
 Lock and automatic chain tightener, Safety. A. L. Bloom. 1,716,358; June 4.  
 Lock and key, Combination. S. F. de Castro é Iznaga. 1,720,838; July 16.  
 Lock and operating means therefor, Rim. W. A. Clench. 1,707,458; Apr. 2.  
 Lock and signaling device, Vehicle. A. E. Paige. 1,704,868; Mar. 12.  
 Lock and window adjuster. L. M. Flag. 1,724,011; Aug. 13.  
 Lock attachment, Door. J. E. Bartlett. 1,727,323; Sept. 10.  
 Lock board. H. C. Maise. 1,710,220; Apr. 23.  
 Lock cap for containers. L. S. Roberts. 1,707,320; Apr. 2.  
 Lock case. M. J. Tracy and J. H. Kintzele. Des. 77,632; Jan. 29.  
 Lock check pin. C. C. Butler. 1,716,111; June 4.  
 Lock cover for pails. V. P. Wendle. 1,727,087; Sept. 3.  
 Lock cylinder. S. Segal. 1,707,643; Apr. 2.  
 Lock device for numbering machines. G. Primbs, jr. 1,734,399; Nov. 5.  
 Lock for affixing spools or drums on rotatable spindles, Releasable friction. D. J. Mayer. 1,724,034; Aug. 13.  
 Lock for automobile steering wheels. J. Coufal. 1,713,423; May 14.  
 Lock for automobiles, Steering-wheel. F. D. Carpenter. 1,736,900; Nov. 26.  
 Lock for automotive vehicles. E. N. Jacobi. 1,696,957; Jan. 1.  
 Lock for baby-carriage backs. E. Specter. 1,735,063; Nov. 12.  
 Lock for beds, Corner. W. H. Baker. 1,726,284; Aug. 27.  
 Lock for cans, Screw friction. E. M. Fletcher. 1,715,146; May 28.  
 Lock for coin banks. F. Salinger. 1,709,157; Apr. 16.  
 Lock for emergency brake levers. J. Damm. 1,702,201; Feb. 12.  
 Lock for filing cabinets, Automatic drawer. C. F. Wolters. 1,700,299; Jan. 29.  
 Lock for fishing-line reels. J. W. Powell. 1,711,248; Apr. 30.  
 Lock for floor safes. H. W. Hahn. 1,717,682; June 18.  
 Lock for gas cocks. H. M. Rosenberg. 1,709,594; Apr. 16.  
 Lock for gas cocks, Safety. W. O. Kuehn and T. Wesolowski. 1,740,945; Dec. 24.  
 Lock for gas tanks and the like, Cover. O. A. Widerberg. 1,722,615; July 30.  
 Lock for gasoline dispensers, Safety. F. W. A. Brueske. 1,728,923; Sept. 24.  
 Lock for gasoline-vending machines, Pump. J. W. Johnson. 1,733,195; Oct. 29.  
 Lock for induction coils, Safety circuit maker and breaker. A. W. Mabbutt. 1,718,747; June 25.  
 Lock for interlocking machine levers, Electric. I. W. Vensel. 1,741,003; Dec. 24.  
 Lock for ironing boards and the like. H. J. Gilbert. 1,732,800; Oct. 22.  
 Lock for meter covers. A. W. Gerneth and S. Harrall. 1,725,908; Aug. 27.  
 Lock for mine cars, Check. M. Beshenich. 1,720,164; July 9.  
 Lock for motor vehicles, Coincidental. G. A. Gillen. 1,730,420; Oct. 8.  
 Lock for pins and the like, Safety. M. M. Graham. 1,700,357; Jan. 29.  
 Lock for power reversing gears, Air-operable. S. H. Hunter. 1,700,532; Jan. 29.  
 Lock for quick-operating fasteners. G. W. Blair. 1,721,144; July 16.  
 Lock for railway switches, Automatic switch. L. N. Hansell. 1,699,966; Jan. 22.  
 Lock for removable sections of antiskid chains, Detachable. H. H. Wehringer. 1,740,847; Dec. 24.  
 Lock for safe-deposit boxes. J. A. Katz. 1,732,847; Oct. 22.  
 Lock for shut-off valves. S. F. Wilson. 1,713,635; May 21.  
 Lock for shutter-operating mechanism, Automatic. A. R. Blaski. 1,715,274; May 28.  
 Lock for spare rims and tires. S. Wise. Des. 78,075; Mar. 19.  
 Lock for spare tires of automobiles. F. Soley. 1,721,476; July 16.  
 Lock for spare wheels. S. Wise. 1,741,391; Dec. 31.  
 Lock for switch points, Safety. H. T. Baugher. 1,723,398; Aug. 6.  
 Lock for take-up for looms. A. A. Gordon. 1,726,821; Sept. 3.  
 Lock for tires, Lug. L. S. Bradley. 1,704,910; Mar. 12.  
 Lock for traveling cases or the like. C. G. Rudderham. Des. 78,483; May 7.  
 Lock for trunks. L. W. Christophel. 1,700,998; Feb. 5.  
 Lock for vehicle fuel tanks, Cover. T. S. Greer. 1,716,724; June 11.  
 Lock for window regulators. D. Miller and B. S. Floraday. 1,732,411; Oct. 22.  
 Lock frame. M. Leventhal. Des. 78,472; May 7.  
 Lock-head key. G. H. Brawner. 1,718,408; June 25.  
 Lock-joint grooving head. F. R. Weaver. 1,718,325; June 25.  
 Lock-joint metal tubing. F. W. Schneible. 1,718,983; July 2.  
 Lock means, Automobile. K. A. Brauning. 1,703,812; Feb. 26.  
 Lock means, Automobile. J. S. Lach. 1,697,013; Jan. 1.  
 Lock means, Automobile. J. S. Lach. 1,699,398-9; Jan. 15.  
 Lock means, Automobile. J. S. Lach. 1,706,789; Mar. 26.  
 Lock means, Automobile. J. S. Lach. 1,713,287-8; May 14.  
 Lock mechanism. H. N. Sledge. 1,722,062; July 23.  
 Lock mechanism. W. H. Schuerman. 1,723,956; Aug. 6.  
 Lock mechanism. A. E. Thomas. 1,723,665; Aug. 6.  
 Lock mechanism. M. Tibbetts. 1,708,709; Apr. 9.  
 Lock mechanism, Carburetor. A. Rostas. 1,711,395; Apr. 30.  
 Lock mechanism, Combination. O. J. Schmidt. 1,737,477; Nov. 26.  
 Lock mechanism, Damper-control. E. O. Young. 1,729,319; Sept. 24.  
 Lock-nut device. E. R. Kulka. 1,697,602; Jan. 1.  
 Lock nut, Quick-action. T. E. Eidel, jr. 1,705,811; Mar. 19.  
 Lock or similar article, Wardrobe trunk. J. B. Russ. Des. 80,189; Dec. 24.  
 Lock-rod elevator. E. L. Patterson. 1,703,014; Feb. 19.  
 Lock-roofing forming machine. J. and H. Fulenwider, E. W. Robinson, and H. S. Norris. 1,742,031; Dec. 31.  
 Lock strip or body. H. E. Sipe. 1,723,309; Aug. 6.  
 Lock switch. H. E. Norviel. 1,713,142; May 14.  
 Lock switch, Combination. A. R. Klingensmith. 1,739,003; Dec. 10.  
 Lock switch, Ignition. G. P. Ennis and J. C. Walton. 1,709,008; Apr. 16.  
 Lock-unit partition, Ceiling. F. F. Burgen. 1,725,847; Aug. 27.  
 Lock washer. E. B. Carns. 1,725,440; Aug. 20.  
 Lock washer. C. G. Olson. 1,715,777; June 4.  
 Lock washer. C. G. Olson. 1,740,113; Dec. 17.  
 Lock washer. W. E. Zinnbauer. 1,726,972; Sept. 3.  
 Lock washer, Spring-nut. J. A. Hyle. 1,724,595; Aug. 13.  
 Lock washer, Spring nut. H. G. Norwood. 1,708,799; Apr. 9.  
 Locker. M. S. Hart. 1,716,169; June 4.  
 Locker. E. D. Kaser. 1,702,385; Feb. 19.  
 Locker. W. N. Vance. 1,720,021; July 9.  
 Locker. W. N. Vance. 1,731,552; Oct. 15.  
 Locker, Spring-door. W. N. Vance. 1,720,020; July 9.  
 Locking adjuster. H. T. Stokes. 1,717,948; June 18.  
 Locking anchor for card trays. E. Ohnstrand. 1,697,286; Jan. 1.  
 Locking and aligning device for belt stamps. J. Street. 1,713,306; May 14.  
 Locking and operating system for cell doors. D. F. Youngblood. Re17,403; Aug. 13.  
 Locking and releasing switch, Electrical. J. Stephenson. 1,704,582; Mar. 5.  
 Locking and throw-out device, Gear-shift. T. Monday. 1,735,542; Nov. 12.  
 Locking at least two nuts, Device for. E. Brandt. 1,733,853; Oct. 29.  
 Locking bolt for doors. W. S. Torrence. 1,707,694; Apr. 2.



- Locking center pin for railway cars. J. F. O'Connor. 1,725,413; Aug. 20.
- Locking clamp for outboard motors. T. L. Smith. 1,741,205; Dec. 31.
- Locking device. S. R. Fraim. 1,706,151; Mar. 19.
- Locking device. F. H. Goldhart. 1,714,087; May 21.
- Locking device. R. R. Kenworthy. 1,699,973; Jan. 22.
- Locking device. C. N. Leet. 1,711,535; May 7.
- Locking device. A. G. McCaleb. 1,741,161; Dec. 31.
- Locking device. E. R. Penney and J. W. Farrior. 1,722,231; July 23.
- Locking device. R. B. Wells. 1,714,200; May 21.
- Locking device, Artificial-limb. J. F. Rowley. 1,723,491; Aug. 6.
- Locking device, Automatic. S. T. Smith. 1,719,630; July 2.
- Locking device, Automobile. P. C. Pinkerton. 1,700,989; Feb. 5.
- Locking device, Automobile. P. C. Pinkerton. 1,725,158; Aug. 20.
- Locking device, Automobile. P. C. Pinkerton. 1,739,648; Dec. 17.
- Locking device, Automobile hood-. R. H. Bertram. 1,721,984; July 23.
- Locking device, Brake-. W. L. Fry. 1,738,769; Dec. 10.
- Locking device, Car-door-. T. H. Symington. 1,716,332; June 4.
- Locking device, Clutch-pedal-. T. Monday. 1,720,915; July 16.
- Locking device for automobiles. G. Fortin. 1,721,013; July 16.
- Locking device for automobiles. C. Mauborgne. 1,733,128; Oct. 29.
- Locking device for camera shutters. H. Lindberg. 1,708,547; Apr. 9.
- Locking device for cane cars, Door-. C. H. Folmsbee. 1,727,638; Sept. 10.
- Locking device for dispensing apparatus. B. J. Pepper. 1,709,592; Apr. 16.
- Locking device for doors. I. Kemp. 1,701,076; Feb. 5.
- Locking device for gyroscopes. E. A. Sperry. 1,704,489; Mar. 5.
- Locking device for handles. F. A. Jimerson. 1,712,437; May 7.
- Locking device for mail-chute panels. H. M. Kennedy. 1,736,917; Nov. 26.
- Locking device for motor vehicles. A. Savoy. 1,705,314; Mar. 12.
- Locking device for motor vehicles. J. R. Vedder. 1,708,070; Apr. 9.
- Locking device for nuts and bolts and the like. M. A. Sisk. 1,701,511; Feb. 12.
- Locking device for reversible trailers. S. B. Winn. 1,715,263; May 28.
- Locking device for screws and the like. W. J. Gibbons. 1,707,933; Apr. 2.
- Locking device for steel retainers. F. M. Slater. 1,701,631; Feb. 12.
- Locking device for steering wheels of motor cars. W. Scott. 1,698,008; Jan. 8.
- Locking device for stuffing-box nuts. F. N. Mason. 1,737,543; Nov. 26.
- Locking device for tank-dome covers. W. K. Auchincloss. 1,706,051; Mar. 19.
- Locking device for vessels, Helm-. G. Bojer. 1,711,037; Apr. 30.
- Locking device for washing-machine cylinders. W. H. Jaxheimer. 1,726,181; Aug. 27.
- Locking device, Key. H. E. McKenna. 1,718,299; June 25.
- Locking device, Nut-. J. A. Reck. 1,706,820; Mar. 26.
- Locking device, Nut and bolt. W. J. Gibbons. 1,707,931; Apr. 2.
- Locking device, Plate-. H. C. Jordhoy. 1,734,093; Nov. 5.
- Locking device, Quick-acting broach-. F. J. Lapointe. 1,732,445; Oct. 22.
- Locking device, Removable bridge-. C. I. Stolf. 1,702,282; Feb. 19.
- Locking device, Rim-. R. Perrault. 1,731,107; Oct. 8.
- Locking device, Rim-. S. H. Ray. 1,728,253; Sept. 17.
- Locking device, Separable-fastener-. G. Sundback. 1,734,750; Nov. 5.
- Locking device, Spare rim and tire. F. T. Root. 1,735,338; Nov. 12.
- Locking device, Switch-point-. E. W. Maves and W. B. Mews. 1,740,365; Dec. 17.
- Locking device, Trunk-door-. J. Ritter, jr. 1,706,822; Mar. 26.
- Locking device, Universal. H. C. Ver Wiebe. 1,709,239; Apr. 16.
- Locking device, Valve-. P. S. Douglas. 1,714,856; May 28.
- Locking equipment for cabin-type aircraft, Door-. F. E. Casey. 1,701,491; Feb. 12.
- Locking evacuated tubes, Device for. H. J. Christopher. 1,738,524; Dec. 10.
- Locking means and cover for valve stems. J. W. Franklin, Jr. 1,704,286; Mar. 5.
- Locking means, Draft-key-. L. J. Brown. 1,712,490; May 14.
- Locking means for automobile gear-shift mechanisms. C. L. Johnson. 1,740,096; Dec. 17.
- Locking means for bassinets, Side-. R. B. Bukolt. 1,705,851; Mar. 19.
- Locking means for milling tools, Cutter. C. M. Pond. 1,700,333; Jan. 29.
- Locking means for reservoir bungs and faucets, Combination. C. A. Schmidt and J. Westergaard. 1,729,089; Sept. 24.
- Locking means for tank-dome manhole covers. V. Wiloughby. 1,699,648; Jan. 22.
- Locking mechanism. R. S. Clark. 1,701,099; Feb. 5.
- Locking mechanism. H. Hansen. Re17,225; Mar. 5.
- Locking mechanism. A. H. Inglis and L. G. Bostwick. 1,700,799; Feb. 5.
- Locking mechanism. M. Tibbetts. 1,726,202; Aug. 27.
- Locking mechanism, Artificial-limb-. J. F. Rowley. 1,722,017; July 23.
- Locking mechanism, Automobile. E. L. Dayton. 1,713,645; May 21.
- Locking mechanism, Door-. W. F. Cremean. 1,737,920; Dec. 3.
- Locking mechanism, Dump-car-. E. R. Viberg and A. L. Linderblad. 1,702,327; Feb. 19.
- Locking mechanism for closures. M. J. Callahan. 1,709,459; Apr. 16.
- Locking mechanism for door latches, Dead-. L. L. Gasey. 1,706,486; Mar. 26.
- Locking mechanism for drawers. G. Anderson and V. A. Gronberg. 1,730,909; Oct. 8.
- Locking mechanism for dumping bodies. L. T. Wood. 1,711,299; Apr. 30.
- Locking mechanism for motor vehicles. G. A. Gillen. 1,726,530; Sept. 3.
- Locking mechanism for the steering wheels of vehicles, etc. A. P. J. Pinel. 1,700,376; Jan. 29.
- Locking mechanism for vehicles, Combination. Z. Riddle. 1,710,242; Apr. 23.
- Locking mechanism for vulcanizers. A. J. Fleiter. 1,700,367; Jan. 29.
- Locking mechanism, Jail-door-. H. D. Garber. 1,739,897; Dec. 17.
- Locking mechanism, Multicoin-control. J. G. Steinkamp. 1,734,748; Nov. 5.
- Locking mechanism, Printing-plate-. H. A. W. Wood. 1,708,196; Apr. 9.
- Locking mechanism, Railroad-switch-. F. L. Kittle. 1,705,124; Mar. 12.
- Locking mechanism, Switch-. C. M. Colby and W. N. Potts. 1,729,927; Oct. 1.
- Locking mechanism, Washing-machine-. W. W. Trinks. 1,738,506; Dec. 3.
- Locking nuts. M. P. McLaughlin. 1,720,799; July 16.
- Locking, opening, and closing mechanism, Door. A. B. Lewis. 1,701,784; Feb. 12.
- Locking outlet valves in position. J. M. Crem and A. C. Linberg. 1,718,532; June 25.
- Locking plug switch. H. Hubbell. 1,700,437; Jan. 29.
- Locking rail ends. J. H. Deppeler. 1,699,691; Jan. 22.
- Locking slide loop, Self-. P. E. Fenton. 1,741,619; Dec. 31.
- Locking snap plug. G. A. Hayward. 1,700,495; Jan. 29.
- Locking the steering wheels of motor vehicles. C. E. Chittenden and C. Fabian. 1,709,839; Apr. 23.
- Locking vehicles in stalls. C. J. Warren. 1,726,724; Sept. 3.
- Locks, Attachment for. K. M. Crossen. 1,700,284; Jan. 29.
- Locks or the like, Control for. H. S. Chase and W. R. Fletcher. 1,724,792; Aug. 13.
- Locomotive. J. G. Blunt. 1,735,492; Nov. 12.
- Locomotive. J. Buchli. 1,729,537; Sept. 24.
- Locomotive. A. Doble. 1,732,462; Oct. 22.
- Locomotive. H. N. Gresley. 1,731,856; Oct. 15.
- Locomotive. R. F. Hall. 1,736,881; Nov. 26.
- Locomotive. J. S. Keen and F. B. Deans. 1,720,903; July 16.
- Locomotive. N. M. Lower. 1,718,055; June 18.
- Locomotive. N. T. McKee. 1,739,160; Dec. 10.
- Locomotive. L. E. Osborne. 1,718,065; June 18.
- Locomotive. E. L. Schellens and J. S. Coffin, jr. 1,710,244; Apr. 23.
- Locomotive. E. P. Stevenson. 1,723,957; Aug. 6.
- Locomotive. W. J. Still. 1,730,695; Oct. 8.
- Locomotive. W. E. Woodard. 1,741,670; Dec. 31.
- Locomotive and stoker therefor. N. M. Lower. 1,707,676; Apr. 2.
- Locomotive and stoker therefor. N. M. Lower and E. A. Turner. 1,718,053; June 18.
- Locomotive-arch tubes, Applying. R. M. Brown. 1,701,256; Feb. 5.
- Locomotive arrangement. N. T. McKee. 1,712,928; May 14.
- Locomotive, Articulated. J. G. Blunt. 1,708,254; Apr. 9.
- Locomotive, Articulated. A. W. Bruce. 1,704,722; Mar. 12.
- Locomotive, Articulated. R. H. Whitelegg. 1,734,508; Nov. 5.
- Locomotive, Articulated tank. W. Thormann. 1,740,797; Dec. 24.
- Locomotive boiler. C. E. Bodine. 1,741,181; Dec. 31.
- Locomotive boiler. A. W. Bruce. 1,708,255; Apr. 9.
- Locomotive boiler. C. G. Hawley. 1,708,919-20; Apr. 9.
- Locomotive boiler. C. G. Hawley. 1,712,614-15; May 14.
- Locomotive boiler. C. G. Hawley. 1,732,304; Oct. 22.
- Locomotive boiler. A. W. Nelson. 1,732,768-9; Oct. 22.
- Locomotive boiler. P. Thomsen. 1,730,867; Oct. 8.
- Locomotive booster apparatus. F. R. Peters. 1,697,691; Jan. 1.
- Locomotive booster apparatus. F. R. Peters. 1,714,619; May 28.



- Locomotive booster motor equipment. W. R. Lye and N. A. Ferrier. 1,727,125; Sept. 3.
- Locomotive, Booster-supplemented. H. S. Vincent. 1,722,024; July 23.
- Locomotive, Cable reel. W. W. Sloane. 1,742,012; Dec. 31.
- Locomotive control, Diesel-. J. Bing. 1,720,203; July 9.
- Locomotive-control installation. T. E. and J. E. Clark. 1,697,949; Jan. 8.
- Locomotive-control installation. T. E. and J. E. Clark. 1,737,751; Dec. 3.
- Locomotive cylinder, Saddle. H. Glaenzer and L. W. Hance. 1,718,136; June 18.
- Locomotive, Cylinder saddle for high-pressure articulated. L. W. Hance. 1,718,142; June 18.
- Locomotive, Diesel. J. Geiger. 1,714,219; May 21.
- Locomotive draft device. C. A. Schellens and J. S. Coffin, jr. 1,722,060; July 23.
- Locomotive drafting plant. F. H. C. Coppus. 1,734,078; Nov. 5.
- Locomotive driving box. J. G. Blunt. 1,723,498; Aug. 6.
- Locomotive driving box. J. J. Hennessy. 1,730,933; Oct. 8.
- Locomotive-driving-box wedge adjuster. G. H. Holloway. 1,703,585; Feb. 26.
- Locomotive driving mechanism. L. Hornbostel. 1,729,443; Sept. 24.
- Locomotive, Electric. S. Miller. 1,717,058; June 11.
- Locomotive engine. J. E. Muhlfeld. 1,712,630; May 14.
- Locomotive equalizer. D. T. Williams. 1,718,326; June 25.
- Locomotive-fire-box lining. G. P. Reintjes. 1,741,584; Dec. 31.
- Locomotive firing equipment. J. L. Mohun. 1,727,934; Sept. 10.
- Locomotive frame. E. J. Brennan and L. L. Neebe. 1,709,708; Apr. 16.
- Locomotive frame. A. W. Bruce. 1,710,690; Apr. 30.
- Locomotive frame. C. B. Harbison. 1,705,476; Mar. 19.
- Locomotive frame and manufacturing the same. C. W. Todd. 1,731,511; Oct. 15.
- Locomotive-frame structure. W. E. Woodard. 1,704,272; Mar. 5.
- Locomotive front-end structure. G. F. Driemeyer. 1,702,252; Feb. 19.
- Locomotive, Gasoline. J. R. McGiffert. 1,719,515; July 2.
- Locomotive-journal-box cellar. J. G. Blunt. 1,701,524; Feb. 12.
- Locomotive or truck. W. W. Sloane. 1,734,097; Nov. 5.
- Locomotive propulsion unit, Auxiliary. R. S. A. Dougherty and J. A. McGrew. 1,710,354; Apr. 23.
- Locomotive safety device, Mine-. W. W. Sloane. 1,742,013; Dec. 31.
- Locomotive-smoke-box arrangement. N. T. McKee. 1,729,838; Oct. 1.
- Locomotive-smoke deflector. F. B. Gillett and J. G. Lackey. 1,724,276; Aug. 13.
- Locomotive-spring-equalizing arrangement. E. G. Hallquist. 1,703,526; Feb. 26.
- Locomotive spring rigging. J. A. McCormick. 1,729,588; Sept. 24.
- Locomotive-spring-rigging-equalizing device. A. J. Townsend. 1,704,266; Mar. 5.
- Locomotive, Steam. J. E. Muhlfeld. 1,704,142-3; Mar. 5.
- Locomotive stoker. A. R. Chalker and W. G. Bailey. 1,732,926; Oct. 22.
- Locomotive structure. W. O. Ashe. 1,737,697; Dec. 3.
- Locomotive tender. E. E. Hicken. 1,728,060; Sept. 10.
- Locomotive tender with oil separator. T. F. Jackson. 1,705,254; Mar. 12.
- Locomotive-throttle mechanism. W. L. Reid. 1,738,668; Dec. 10.
- Locomotive truck and boiler device. W. E. Woodard. 1,701,289; Feb. 5.
- Locomotive, Turbine. H. Herrmann. 1,712,992; May 14.
- Locomotive-watering apparatus. A. H. Woodward. 1,722,349; July 30.
- Locomotives, Condenser plant for. F. Ljungström and A. Lysholm. 1,717,457; June 18.
- Locomotives, Connecting rod for. J. G. Blunt. 1,735,491; Nov. 12.
- Locomotives, Forced-draft device for. A. Chanard. 1,724,641; Aug. 13.
- Locomotives, Guide-bearer cross-tie for. L. L. Neebe. 1,721,466; July 16.
- Locomotives, Operating. E. S. Pearce, R. W. Ratterer, and E. C. Karibo. 1,735,087; Nov. 12.
- Locomotives, Push pole for. J. S. Keen. 1,731,138; Oct. 8.
- Locomotives, Spark and cinder arrester for. G. Carpenter. 1,731,043; Oct. 8.
- Locomotives, Two-cylinder structure for. H. Glaenzer and L. W. Hance. 1,718,135; June 18.
- Log and speed indicator, Ship's. S. Shimizu. 1,726,320; Aug. 27.
- Log-barking apparatus. H. W. Guettler. 1,700,220; Jan. 29.
- Log boom attachment. N. F. Johnson. 1,727,289; Sept. 3.
- Log constituted by a vane wheel. M. E. A. Baule. 1,714,205; May 21.
- Log feeder. L. O. Bartlett. 1,729,604; Oct. 1.
- Log house, Making miniature. C. T. Payne. 1,710,947; Apr. 30.
- Log-metering apparatus. H. B. Collins. 1,733,448; Oct. 29.
- Log pusher and the like. L. O. Bartlett. 1,729,605; Oct. 1.
- Log-scoring mechanism, Veneer-. H. C. Breidenbach. 1,699,582; Jan. 22.
- Log stop. G. F. Schnell. 1,721,833; July 23.
- Log-trimming machine. W. T. Rich. 1,715,949; June 4.
- Log turner. G. M. Pelton. 1,710,031; Apr. 23.
- Logarithmic and semilogarithmic coordinator. R. A. Castleman, jr. 1,713,025; May 14.
- Logging appliance. T. Gilmet. 1,741,292; Dec. 31.
- Logging device. M. Hemmingsen. 1,708,299; Apr. 9.
- Logging hook. T. Antoniew. 1,716,997; June 11.
- Logging unit. P. A. Wickes. 1,738,747; Dec. 10.
- Long-splice clamp. R. A. Becker. 1,701,094; Feb. 5.
- Look box. L. D. Fulton. 1,722,740; July 30.
- Lookout or door peep. H. Sklar. 1,722,213; July 23.
- Loom. G. B. Ambler. 1,706,371; Mar. 19.
- Loom. F. E. Ashton. 1,736,029; Nov. 19.
- Loom. E. F. Baldwin. 1,697,898; Jan. 8.
- Loom. E. F. Baldwin. 1,731,369; Oct. 15.
- Loom. C. H. Draper. 1,723,334; Aug. 6.
- Loom. A. G. L. Fardet. 1,726,216; Aug. 27.
- Loom. L. H. Gilmer. 1,710,871; Apr. 30.
- Loom. M. D. Gourlay. 1,718,816; June 25.
- Loom. B. D. Hahn. 1,726,434; Aug. 27.
- Loom. A. J. Harris. 1,711,385; Apr. 30.
- Loom. R. M. Hughes. 1,698,913; Jan. 15.
- Loom. R. Marx. 1,704,620; Mar. 5.
- Loom. E. W. Stone. 1,714,112; May 21.
- Loom. E. B. Stott. 1,737,983; Dec. 3.
- Loom and method of weaving. C. H. Draper. 1,722,959; July 30.
- Loom and process of weaving. J. F. Muheim. 1,728,357; Sept. 17.
- Loom and the production of fabrics thereon, Circular. T. H. Jones. 1,723,426; Aug. 6.
- Loom attachment. W. Brewer. 1,705,324; Mar. 12.
- Loom, Attachment for multicolor-weft-replenishing. H. L. Molloy and C. Belisle. 1,739,164; Dec. 10.
- Loom, Automatic weft-replenishing. A. A. Gordon. 1,739,224; Dec. 10.
- Loom, Axminster. E. F. Hathaway and W. Bixby. 1,742,167; Dec. 31.
- Loom bobbins, Winding. C. L. Young. 1,707,380; Apr. 2.
- Loom box motion, Electrical multiplier for. J. N. Dumas. 1,711,591; May 7.
- Loom, Circular. H. E. Bryant. 1,701,527; Feb. 12.
- Loom, Circular-weaving. C. Séry. 1,720,151; July 9.
- Loom clamp for wall boxes. C. A. Black and S. Thibault. 1,708,827; Apr. 9.
- Loom dobbies, Comb and finger for. A. A. Gordon. 1,716,046; June 4.
- Loom dobbies, Finger for. A. A. Gordon. 1,716,047; June 4.
- Loom dobby. A. A. Gordon. 1,711,595; May 7.
- Loom dobby. N. E. Ham and W. H. Needham. 1,726,823; Sept. 3.
- Loom dobby mechanism. W. M. Wattie. 1,739,194; Dec. 10.
- Loom feeler. J. Taranto. 1,707,500; Apr. 2.
- Loom feeler. R. G. Turner. 1,707,827; Apr. 2.
- Loom, Filling replenishing. A. W. Beardsell. 1,727,316; Sept. 3.
- Loom, Filling-replenishing. H. A. Davis. 1,722,243; July 23.
- Loom for weaving. S. Turner and T. Eastaugh. 1,722,604-7; July 30.
- Loom for weaving. S. Turner and T. Eastaugh. 1,722,868; July 30.
- Loom for weaving carpets and like fabrics. E. J. Perry. 1,718,486; June 25.
- Loom for weaving fabrics, Shuttleless. H. L. Byrd. 1,717,090; June 11.
- Loom for weaving knotted pile fabrics. F. Walters. 1,737,743; Dec. 3.
- Loom for weaving leather sheets. A. Raskine. 1,730,946; Oct. 8.
- Loom for weaving pile fabrics. R. Britton. 1,741,916; Dec. 31.
- Loom for weaving pile fabric. W. S. Stairs. 1,702,368; Feb. 19.
- Loom for weaving terry fabric. E. H. Ryon. 1,737,688; Dec. 3.
- Loom for weaving terry fabrics of different heights. H. L. Blanchard. 1,739,205; Dec. 10.
- Loom for weaving tufted pile fabric. E. F. Clark. 1,709,608; Apr. 16.
- Loom frame and slay. E. Egli. 1,701,230; Feb. 5.
- Loom, Haircloth. G. Taylor. 1,733,920; Oct. 29.
- Loom harness, Jacquard-. J. J. Kaufman. 1,719,476; July 2.
- Loom head gear and pulley. F. H. Wallace and W. H. Compton. 1,700,006; Jan. 22.
- Loom in order to obtain brocades therefrom, Power. C. Pizzorno. 1,736,360; Nov. 19.
- Loom, Multicolor-weft-replenishing. K. J. Unwin and W. H. Wakefield. 1,739,190; Dec. 10.
- Loom, Multiple-shed. J. Zulueta. 1,697,155; Jan. 1.
- Loom, Narrow-fabric. H. Baader. 1,731,286; Oct. 15.
- Loom, Narrow fabric. H. Baader. 1,737,138; Nov. 26.
- Loom, Narrow-ware. T. Martin. 1,741,641; Dec. 31.
- Loom-needle motion, Check for Axminster-. E. E. Clark. 1,722,837; July 30.
- Loom picker. R. W. Chandler. 1,719,873; July 9.
- Loom picker. H. G. West. 1,741,353; Dec. 31.
- Loom, Pile-fabric. E. W. Stone. 1,733,634; Oct. 29.



- Loom reed, Resilient. T. K. Rea. 1,713,623; May 21.  
 Loom shuttle attachment. R. B. Stancill. 1,703,433; Feb. 26.  
 Loom shuttle check. P. F. Balcom. 1,729,920; Oct. 1.  
 Loom, Shuttleless. R. G. Moya. 1,715,468; June 4.  
 Loom shuttles, Tension for. A. Cederlund. 1,722,898; July 30.  
 Loom shuttles, Threading and tension mechanism for. A. S. Hutchins. 1,723,423; Aug. 6.  
 Loom stop motion, Needle-. E. A. Cuniff. 1,729,570; Sept. 24.  
 Loom temple. R. G. Turner. 1,715,962; June 4.  
 Loom thread cutters, Thread control for. F. Marsden. 1,741,324; Dec. 31.  
 Loom to weave terry piles of varying heights. W. H. Wakefield. 1,739,192; Dec. 10.  
 Loom, Tuft-pile-fabric. E. F. Hathaway and W. Bixby. 1,709,572; Apr. 16.  
 Loom warp beams, Head for. W. M. Wattie. 1,715,967; June 4.  
 Loom, Weft-replenishing double-fabric. A. P. Paine and H. L. Blanchard. 1,711,613; May 7.  
 Loom, Wire-weaving. E. Jäger. 1,728,347; Sept. 17.  
 Loom with regularly-moving transferer, Weft-replenishing. W. H. Wakefield. 1,737,692; Dec. 3.  
 Looms, Automatic cop-changing mechanism with oscillating loader magazines for. J. Laforêt. 1,708,840; Apr. 9.  
 Looms, Automatic stopping system of power. J. Tonoue. 1,735,814; Nov. 12.  
 Looms, Beat-up and weft-inserting mechanism for shuttleless. H. L. Byrd. 1,717,089; June 11.  
 Looms, Bobbin support for weft-replenishing. W. H. King. 1,724,286; Aug. 13.  
 Looms, Box motion for. J. Pernot. 1,704,337; Mar. 5.  
 Looms, Cloth board for. E. R. Holmes. 1,703,883; Mar. 5.  
 Looms, Cloth trimmer for. M. L. Stone. 1,721,887; July 23.  
 Looms, Control mechanism for head and box motions of. L. H. Beytes. 1,705,468; Mar. 19.  
 Looms, Controlling the warp in. R. Deleu. 1,705,637; Mar. 19.  
 Looms, Dobby mechanism for. C. D. Brown. 1,703,471; Feb. 26.  
 Looms, Drive for dobbie and Jacquard. H. Dersen. 1,728,824; Sept. 17.  
 Looms, Electrical warp stop motion for. R. G. Turner. 1,703,911; Mar. 5.  
 Looms, Extra warp motion for. J. Bradley and H. Hardy. 1,711,583; May 7.  
 Looms, Fabric splitter for. T. J. Garisio. 1,732,678; Oct. 22.  
 Looms, Feeler mechanism for. P. Keegan. 1,741,114; Dec. 24.  
 Looms, Feeler mechanism for. C. G. Moon. 1,717,165; June 11.  
 Looms, Feeler mechanism for magazine. W. H. Conkle. 1,742,134; Dec. 31.  
 Looms, Filling-cutting device for shifting-shuttle-box. F. Cote. 1,736,488; Nov. 19.  
 Looms, Filling fork and stop motion for oriental-rug. M. A. Bauer. 1,700,664; Jan. 29.  
 Looms, Filling fork for. K. J. Enwin. 1,737,690; Dec. 3.  
 Looms, Filling stop motion for. J. W. Simpson. 1,739,184; Dec. 10.  
 Looms for weaving, Automatic weft-replenishing means for. P. J. Terry. 1,716,803; June 11.  
 Looms for weaving figured fabrics and for use in figured-card-cutting machines, Electrically-controlled device for use in shedding motion in. K. Nakanishi. 1,721,787; July 23.  
 Looms for weaving figured fabrics, Electrically-controlled shedding device in. K. Nakanishi. 1,728,438; Sept. 17.  
 Looms for weaving, Shedding mechanism for. E. Hellingworth. 1,726,831; Sept. 3.  
 Looms for weaving tufted pile fabric, Yarn-positioning device for. E. F. Clark. 1,742,024; Dec. 31.  
 Looms, Friction let-off for. F. J. and W. Chegwidien. 1,701,063; Feb. 5.  
 Looms, Harness cord for. W. B. Harris. 1,720,271-2; July 9.  
 Looms, Harness mechanism for. E. F. Baldwin. 1,734,513; Nov. 5.  
 Looms, Harness motion for. J. Almond. 1,718,198; June 18.  
 Looms, Harness motion for. C. R. Howard. 1,724,283; Aug. 13.  
 Looms, Harness stop mechanism for. J. Pusvaskis. 1,702,980; Feb. 19.  
 Looms, Harness stop motions for. W. H. Nix. 1,725,668; Aug. 20.  
 Looms, Head motion for. K. J. Unwin and W. H. Wakefield. 1,739,189; Dec. 10.  
 Looms, Let-back mechanism for. J. C. Harmon. 1,712,731; May 14.  
 Looms, Let-off device for. J. B. Olch. 1,707,412; Apr. 2.  
 Looms, Let-off for. R. J. Bartholomew and R. Lauter. 1,701,768; Feb. 12.  
 Looms, Let-off for. E. R. Holmes. 1,739,232; Dec. 10.  
 Looms, Let-off for. E. R. Holmes. 1,741,300; Dec. 31.  
 Looms, Let-off for. E. R. Holmes and M. R. Abrial. 1,703,882; Mar. 5.  
 Looms, Let-off for. W. I. Seymour and L. J. Shanahan. 1,729,130; Sept. 24.  
 Looms, Let-off mechanism for. E. C. Burnham. 1,704,911; Mar. 12.  
 Looms, Let-off mechanism for. W. Gunning. 1,698,497; Jan. 8.  
 Looms, Let-off mechanism for. O. V. Payne. 1,722,856; July 30.  
 Looms, Loose-reed-adjusting mechanism for. F. Newcombe. 1,709,867; Apr. 23.  
 Looms, Making vibrator connectors for. H. F. Livermore. 1,697,773; Jan. 1.  
 Looms, Name dobbie for. A. A. Gordon. 1,737,655; Dec. 3.  
 Looms, Needle motion for Axminster. E. R. Holmes. 1,734,091; Nov. 5.  
 Looms, Needle motion for Axminster. A. P. Paine. 1,739,171; Dec. 10.  
 Looms, Needle motion for Axminster. W. H. Wakefield. 1,724,328; Aug. 13.  
 Looms or the like, Harness-actuating attachment for. B. Hetherington. 1,715,363; June 4.  
 Looms, Picker for. M. Liebschner. 1,726,514; Aug. 27.  
 Looms, Picker-stick check for. W. B. Birmingham. 1,726,799; Sept. 3.  
 Looms, Picker stick check for. A. N. Reeves. 1,736,327; Nov. 19.  
 Looms, Picker stick for. W. A. Tebo. 1,712,740; May 14.  
 Looms, Picking mechanism for wide-carpet. W. W. Lassey. 1,704,860; Mar. 12.  
 Looms, Picking motion for. W. M. Wattie. 1,722,831; July 30.  
 Looms, Pile cutter for. C. Schlemper. 1,739,737; Dec. 17.  
 Looms, Pile-wire-carriage-controlling means for pile-fabric. E. W. Stone. 1,704,521; Mar. 5.  
 Looms, Pile-wire-withdrawing device for. J. Petero. 1,715,947; June 4.  
 Looms, Pneumatic thread holder and tension device for weft-replenishing. O. V. Payne. 1,703,898; Mar. 5.  
 Looms, Pneumatic weft-introducing mechanism for. E. H. Ballou. 1,721,940; July 23.  
 Looms, Protection mechanism for. J. Pansy. 1,724,306; Aug. 13.  
 Looms, Self-twilling jacquard machine for. S. W. Douglas. 1,716,263; June 4.  
 Looms, Selvage-cutting mechanism for. H. C. Bausinger, Jr. and H. D. Barnes. 1,717,649; June 18.  
 Looms, Selvage mechanism for leno. H. A. Davis. 1,734,942; Nov. 5.  
 Looms, Shedding mechanism for. R. G. Turner. 1,737,689; Dec. 3.  
 Looms, Shuttle for. S. Turner and T. Eastaugh. 1,722,608; July 30.  
 Looms, Side-slipping weft detector for. A. J. Chevrette. 1,715,992; June 4.  
 Looms, Slack-take-up device for flexible cable of Wilton or Axminster. W. W. Robertson. 1,724,315; Aug. 13.  
 Looms, Stop motion for. G. D. Goodspeed. 1,732,809; Oct. 22.  
 Looms, Stop motion for. G. D. Goodspeed. 1,734,252; Nov. 5.  
 Looms, Stopping mechanism for. H. A. Davis. 1,703,659; Feb. 26.  
 Looms, Tail-thread-cutting mechanism in automatic. K. Toyota. 1,722,184; July 23.  
 Looms, Thread clearer for weft-replenishing. W. H. Wakefield. 1,741,263; Dec. 31.  
 Looms, Thread cutter for. O. V. Payne and R. G. Turner. 1,726,763; Sept. 3.  
 Looms, Thread cutter for box. Dr. S. B. Bridges. 1,715,985; June 4.  
 Looms, Thread cutter for box. R. G. Turner. 1,715,963; June 4.  
 Looms, Thread-cutting device for. R. R. Nix and W. F. Davis. 1,699,442; Jan. 15.  
 Looms, Thread holder for weft-replenishing. R. G. Turner. 1,730,021; Oct. 1.  
 Looms, Thread positioner for filling replenishing. C. H. Warren. 1,727,315; Sept. 3.  
 Looms, Tube frame for Axminster. E. E. Clark. 1,741,287; Dec. 31.  
 Looms, Tube frame for Axminster. A. A. Gordon. 1,724,277; Aug. 13.  
 Looms, Tube-frame-supporting chain for Axminster. A. P. Paine. 1,739,169; Dec. 10.  
 Looms, Tuft placer for pile-fabric. E. E. Clark. 1,737,642; Dec. 3.  
 Looms, Warp stop mechanism for. C. D. Brown. 1,718,918; June 25.  
 Looms, Warp stop motion for. J. Regan. 1,711,617; May 7.  
 Looms, Warp stop motion for. G. H. Shutt. 1,730,018; Oct. 1.  
 Looms, Warp stop motion for. R. G. Turner. 1,741,210; Dec. 31.  
 Looms, Warp-stopping mechanism for. I. W. Noyes. 1,729,592; Sept. 24.  
 Looms, Weft detector for. G. Frechett. 1,741,186; Dec. 31.  
 Looms, Weft detector for. R. G. Turner. 1,734,062; Nov. 5.  
 Looms, Weft detector for drop-box. R. G. Turner. 1,726,780; Sept. 3.  
 Looms, Weft-replenishing mechanism for. A. A. Gordon. 1,739,225; Dec. 10.  
 Looms, Weft-replenishing mechanism for double-shuttle. R. G. Turner. 1,703,909; Mar. 5.  
 Looms, Weft stop motion for shuttles. R. G. Moya. 1,721,030; July 16.



- Looms, Whip roll for. R. G. Turner. 1,707,374; Apr. 2.  
 Looms, Whip-roll support for. S. Operato. 1,720,141; July 9.  
 Looms with two or more shuttles, Change-box mechanism for. E. Egli and K. Derrer. 1,724,264; Aug. 13.  
 Looms, Yieldable thread holder for weft-replenishing. R. G. Turner. 1,730,020; Oct. 1.  
 Loop antenna. P. M. Hengstenberg. 1,709,666; Apr. 16.  
 Loop construction. C. Wolf. 1,720,617; July 9.  
 Loop for radioreception. R. H. Langley. 1,719,893; July 9.  
 Loop-forming device, Automatic. G. L. Chanier and A. L. Adatte. 1,714,461; May 21.  
 Loop hook for backbands, Adjustable. W. L. Lasseter. 1,714,381; May 21.  
 Loop retainer for sewing machines. J. R. Moffatt. 1,702,792; Feb. 19.  
 Loop-retaining mechanism, Selvage. R. C. Ewen. 1,701,668; Feb. 12.  
 Looping machine. E. J. Gearhart. 1,739,358; Dec. 10.  
 Looping machines, Raveler for. S. T. Arnold. 1,728,715; Sept. 17.  
 Loose-leaf binder. A. Rubin. 1,698,107; Jan. 8.  
 Loose-leaf device. A. Von Auw. 1,708,811; Apr. 9.  
 Loose-leaf device, Visible. J. L. Garfield. 1,705,287; Mar. 12.  
 Loud-speaker. N. Baldwin. 1,726,533; Sept. 3.  
 Loud speaker. A. H. Bartsch and M. C. Hopkins. 1,702,926; Feb. 19.  
 Loud speaker. F. E. Beidler. 1,702,399; Feb. 19.  
 Loud-speaker. C. W. Black. 1,716,615; June 11.  
 Loud speaker. B. E. Colburn. 1,704,460; Mar. 5.  
 Loud-speaker. A. Delph. 1,735,528; Nov. 12.  
 Loud-speaker. C. L. Farrand, B. Ross, and P. F. Godley. 1,712,759; May 14.  
 Loud-speaker. P. F. Findelsen. 1,740,446; Dec. 24.  
 Loud-speaker. R. Frankel. 1,721,109; July 16.  
 Loud-speaker. W. G. Gale. 1,716,772; June 11.  
 Loud-speaker. J. W. Gosling and P. R. Fortin. Des. 78,973; July 16.  
 Loud-speaker. W. H. Graff. 1,711,939; May 7.  
 Loud-speaker. J. S. High. 1,715,705; June 4.  
 Loud-speaker. M. C. Hopkins. 1,730,507-8; Oct. 8.  
 Loud-speaker. M. R. Hutchison. 1,718,353-4; June 25.  
 Loud-speaker. M. R. Hutchison. 1,735,859; Nov. 19.  
 Loud-speaker. A. E. Jordan and N. Baldwin. 1,738,955; Dec. 10.  
 Loud-speaker. A. A. Kent. 1,727,604; Sept. 10.  
 Loud-speaker. W. Kunze. 1,716,893; June 11.  
 Loud-speaker. L. Levy. 1,738,588; Dec. 10.  
 Loud-speaker. C. P. Madsen. 1,698,504; Jan. 8.  
 Loud-speaker. A. Marche. Des. 78,473; May 7.  
 Loud speaker. N. W. McLachlan. 1,699,903; Jan. 22.  
 Loud-speaker. S. J. Offerle. 1,715,305; May 28.  
 Loud-speaker. H. Perla and L. Baron. 1,737,864; Dec. 3.  
 Loud-speaker. C. W. Rice. 1,707,570; Apr. 2.  
 Loud-speaker. F. Saldana. 1,713,399; May 14.  
 Loud-speaker. F. W. Temple. Des. 77,629; Jan. 29.  
 Loud-speaker. A. A. Thomas. 1,731,799; Oct. 15.  
 Loud-speaker. A. F. Van Dyck and E. J. Quinby. Des. 79,677; Oct. 22.  
 Loud-speaker and light, Combined. C. A. Voif, jr. 1,727,419; Sept. 10.  
 Loud-speaker and sound-reproducing unit. C. E. Semple, jr. 1,718,009; June 18.  
 Loud speaker, Cone. R. W. Morris. 1,700,805-6; Feb. 5.  
 Loud-speaker, Cone. R. L. Wegel. 1,710,249; Apr. 23.  
 Loud-speaker, Cone-type. F. C. Barton. 1,713,210; May 14.  
 Loud-speaker, Eccentric cone. A. M. Nicolson. 1,742,002; Dec. 31.  
 Loud-speaker horn. W. N. Hunter. 1,716,137; June 4.  
 Loud-speaker motor. L. de Forest. 1,718,337; June 25.  
 Loud-speaker motor unit. L. M. Clement and J. F. Nielsen. 1,721,480; July 16.  
 Loud-speaker, Noncircular cone. A. M. Nicolson. 1,741,533; Dec. 31.  
 Loud-speaker, Radio. A. Herschel. 1,710,622; Apr. 23.  
 Loud-speaker, Telephonic. C. L. Farrand. 1,732,644; Oct. 22.  
 Loud-speaker unit. G. F. Borkman. 1,722,657; July 30.  
 Loud-speaker unit. J. M. S. King. 1,719,227; July 2.  
 Loud-speakers, Actuating device for. J. M. High, jr. 1,738,370; Dec. 3.  
 Loud-speakers. Actuating mechanism for. C. L. Farrand and E. Ross. 1,707,222; Apr. 2.  
 Loud-speakers. Driving unit for. N. M. Michailovsky. 1,732,205; Oct. 15.  
 Loud-speakers. Suspension for cone. L. Shapiro. 1,707,283; Apr. 2.  
 Loud-speaking apparatus. F. W. Cooley. 1,731,523; Oct. 15.  
 Loud-speaking device. L. R. Decaux. 1,715,057; May 28.  
 Loud-speaking device, Electromagnetically-operating. L. Shapiro. 1,720,008; July 9.  
 Loud-speaking sound producer for telephones. F. Wilhelm and J. Müller. 1,710,463; Apr. 23.  
 Loud talker, Duplex. D. A. Whitson. 1,713,205; May 14.  
 Lounge, Twin. L. L. Gustavson. 1,702,827; Feb. 19.  
 Louver. A. C. Bunker. 1,717,346; June 11.  
 Louver post. L. T. Mart. 1,728,498; Sept. 17.  
 Low-capacity switch. O. Stürner. 1,721,420; July 16.  
 Low-pressure boiler. R. J. Collins. 1,729,567; Sept. 24.  
 Lowering device. C. W. Walker. 1,702,554; Feb. 19.  
 Lubricant. J. P. Baldwin. 1,737,555; Dec. 3.  
 Lubricant. J. C. Williams. 1,735,368; Nov. 12.  
 Lubricant and excluding dust, Retaining. G. R. Bott. 1,722,489; July 30.  
 Lubricant and making same. J. H. James. 1,700,055; Jan. 22.  
 Lubricant and sealing compound. R. H. Reiter. 1,704,446; Mar. 5.  
 Lubricant and the lubricant resulting from the employment of the process, Production of a. C. B. De Hart. 1,709,311; Apr. 16.  
 Lubricant connection. P. Gresser. 1,697,314; Jan. 1.  
 Lubricant cooling device for internal-combustion engines and the like. E. T. Larkin. 1,713,541; May 21.  
 Lubricant-dispensing device. H. J. Stork. 1,733,635; Oct. 29.  
 Lubricant-exPELLING cup. P. H. Fuller. 1,737,838; Dec. 3.  
 Lubricant for wire drawing. C. V. Iredell. 1,724,134; Lubricant fitting. O. U. Zerk. 1,697,217; Jan. 1.  
 Aug. 13.  
 Lubricant nipples, Making. G. L. Moore. 1,716,500; June 11.  
 Lubricant retainer and dust guard for universal joints. A. A. Warner. 1,717,481; June 18.  
 Lubricant-retaining device. C. N. F. Knape. 1,729,445; Sept. 24.  
 Lubricant seal for universal boots. B. H. Urschel. 1,714,742; May 28.  
 Lubricant transfer for multicompartment crank cases. A. C. Elley. 1,713,693; May 21.  
 Lubricant-transferring device. A. Wunderlich. 1,710,759; Apr. 30.  
 Lubricants by double centrifuging, Dewaxing. G. F. Olsen. 1,715,670; June 4.  
 Lubricants containing water, Producing. M. J. Heitmann. 1,724,653; Aug. 13.  
 Lubricants, Distributing heavy. G. L. Moore. 1,714,184; May 21.  
 Lubricants, Manufacture of. H. Dimmig. 1,729,823; Oct. 1.  
 Lubricants, Recovering. E. N. Hilbert. 1,707,633; Apr. 2.  
 Lubricating and filtering system. F. A. Bower. 1,703,335; Feb. 26.  
 Lubricating apparatus. H. Albertine. 1,725,972; Aug. 27.  
 Lubricating apparatus. F. S. Barks. 1,733,441; Oct. 29.  
 Lubricating apparatus. F. C. Blanchard. 1,701,907; Feb. 12.  
 Lubricating apparatus. H. H. Brand. 1,711,135; Apr. 30.  
 Lubricating apparatus. W. S. Brown, and C. B. Platt. 1,697,712; Jan. 1.  
 Lubricating apparatus. M. F. Carr. 1,716,483; June 11.  
 Lubricating apparatus. M. F. Carr. 1,729,985; Oct. 1.  
 Lubricating apparatus. E. W. Davis. 1,716,487; June 11.  
 Lubricating apparatus. E. W. Davis and L. H. Wheeler. 1,735,734; Nov. 12.  
 Lubricating apparatus. D. F. Fesler, E. W. Davis, and J. H. Frier, jr. 1,720,391; July 9.  
 Lubricating apparatus. E. Gass. 1,719,362; July 2.  
 Lubricating apparatus. L. G. Gates. 1,714,773; May 28.  
 Lubricating apparatus. W. Harrigan. 1,720,398; July 9.  
 Lubricating apparatus. G. Johnson. 1,716,493; June 11.  
 Lubricating apparatus. N. W. Morse. 1,697,324; Jan. 1.  
 Lubricating apparatus. H. J. Murphy. 1,703,281; Feb. 26.  
 Lubricating apparatus. H. J. Murphy. 1,714,465; May 21.  
 Lubricating apparatus. H. J. Murphy. 1,716,501-2; June 11.  
 Lubricating apparatus. H. J. Murphy. 1,717,167; June 11.  
 Lubricating apparatus. H. J. Murphy. 1,718,575; June 25.  
 Lubricating apparatus. H. J. Murphy. 1,729,959-60; Oct. 1.  
 Lubricating apparatus. H. J. Murphy. 1,731,635; Oct. 15.  
 Lubricating apparatus. H. J. Murphy. 1,731,787; Oct. 15.  
 Lubricating apparatus. E. K. Standish. 1,709,816; Apr. 16.  
 Lubricating apparatus. L. S. Watres. 1,717,288; June 11.  
 Lubricating apparatus with multiple pumps. A. Lefebvre. 1,707,915; Apr. 2.  
 Lubricating attachment, Automatic force-feed. J. J. Saunders. 1,723,811; Aug. 6.  
 Lubricating composition. R. Cross. 1,739,631; Dec. 17.  
 Lubricating composition. G. W. Gray. 1,716,310; June 4.  
 Lubricating composition. A. L. Klees. 1,727,109; Sept. 3.  
 Lubricating composition and making the same. J. W. Finlay. 1,699,961; Jan. 22.  
 Lubricating compound for insulated electric wires. G. R. Esping. 1,732,882; Oct. 22.  
 Lubricating device. J. H. Bargesser. 1,736,692; Nov. 19.  
 Lubricating device. F. C. Blanchard. 1,707,704; Apr. 2.  
 Lubricating device. T. M. Gunn. 1,701,154; Feb. 5.  
 Lubricating device. M. J. Henry. 1,741,235; Dec. 31.  
 Lubricating device. S. M. Jonsson. 1,736,160; Nov. 19.  
 Lubricating device. J. B. Kirby. 1,719,983; July 9.  
 Lubricating device. C. W. A. Koelbeck. 1,739,076; Dec. 10.  
 Lubricating device. C. R. Lumley. 1,706,736; Mar. 26.  
 Lubricating device. E. B. Nathan. 1,719,439; July 2.  
 Lubricating device. J. Owens. 1,723,437; Aug. 6.  
 Lubricating device. W. H. Poesse. 1,696,971; Jan. 1.



- Lubricating device, A. M. Sosa and H. Baerbalck. 1,699,816; Jan. 22.
- Lubricating device, C. Stern. 1,724,434; Aug. 13.
- Lubricating device, Bearing-. A. Hollander. 1,707,612; Apr. 2.
- Lubricating device for bearings, L. Holland-Letz. 1,701,535; Feb. 12.
- Lubricating device for internal-combustion engines, B. Edkins and F. G. Brown. 1,732,123; Oct. 15.
- Lubricating device for railway-vehicle axles, E. Mooney. 1,708,025; Apr. 9.
- Lubricating device for sewing machines, Thread-. C. F. Rubel. 1,703,781; Feb. 26.
- Lubricating device for steam engines, A. Cooper. 1,706,482; Mar. 26.
- Lubricating device for vertical shafts, H. Bénit. 1,715,978; June 4.
- Lubricating device, Journal-. E. E. Blomquist. 1,713,944; May 21.
- Lubricating device, Line-shaft-bearing-, R. M. Schlegel and A. H. Bowler, jr. 1,739,803; Dec. 17.
- Lubricating device, Spinning-frame-. T. Webster. 1,728,708; Sept. 17.
- Lubricating device, Spring-. B. G. Gilbough. 1,705,758; Mar. 19.
- Lubricating ducts, Method and apparatus for, A. D. Pettee. 1,716,384; June 11.
- Lubricating fitting, E. W. Davis. 1,734,288; Nov. 5.
- Lubricating gun, G. B. Wilson and K. C. Eagley. 1,705,743; Mar. 19.
- Lubricating gun, G. B. Wilson and K. C. Eagley. 1,738,861; Dec. 10.
- Lubricating internal-combustion engines, Mechanism for, J. A. Mould. 1,701,726; Feb. 12.
- Lubricating means, F. E. Murphy. 1,697,017; Jan. 1.
- Lubricating means, H. Ramsden. 1,714,046; May 21.
- Lubricating means, O. Zerk. 1,711,870; May 7.
- Lubricating means for conveyer rollers, P. C. Wego. 1,737,036; Nov. 26.
- Lubricating means for machines, W. A. Cook. 1,737,571; Dec. 3.
- Lubricating means for motor-driven machine tools, J. B. Armitage. 1,726,330; Aug. 27.
- Lubricating means for pitman bearings, H. O. Thompson. 1,705,596; Mar. 19.
- Lubricating means for sewing-machine loop takers, W. N. Parkes. 1,698,965; Jan. 15.
- Lubricating means for spinning frames and the like, Multiple, W. C. McGee. 1,727,311; Sept. 3.
- Lubricating means, Journal-. P. Sterling. 1,737,393; Nov. 26.
- Lubricating mechanism, C. C. Currie. 1,712,381; May 7.
- Lubricating mechanism, O. U. Zerk. 1,711,871; May 7.
- Lubricating mechanism, Cam-, M. E. Widell. 1,708,164; Apr. 9.
- Lubricating mechanism for rotary valves, J. E. Moravec. 1,699,852; Jan. 22.
- Lubricating mixture and making same, P. C. Goss. 1,708,058; Apr. 9.
- Lubricating paddle for journal boxes, G. Eveno. Re17,283; Apr. 23.
- Lubricating perforator presses, J. T. Wright. 1,734,024; Oct. 29.
- Lubricating, sealing, and thrust-balancing means for compressors and the like, W. H. Carrier. 1,721,614; July 23.
- Lubricating shaft, Hollow, J. C. Sharp. 1,716,983; June 11.
- Lubricating system, C. C. Bradbury. 1,716,482; June 11.
- Lubricating system, R. W. A. Brewer. 1,738,560; Dec. 10.
- Lubricating system, M. F. Carr. 1,725,179; Aug. 20.
- Lubricating system, A. Claud-Mantle. 1,703,278; Feb. 26.
- Lubricating system, E. W. Davis. 1,705,283; Mar. 12.
- Lubricating system, F. H. Gleason. 1,732,579; Oct. 22.
- Lubricating system, R. G. Moore. 1,700,509; Jan. 29.
- Lubricating system, W. E. S. Strong and W. Dieter. 1,717,814; June 18.
- Lubricating system, C. Sutter, G. A. Pettit, and E. B. Norman. 1,736,058; Nov. 19.
- Lubricating system, A. J. West. 1,736,335; Nov. 19.
- Lubricating system, T. C. Whitehead. 1,715,397; June 4.
- Lubricating system and apparatus, H. J. Murphy. 1,717,166; June 11.
- Lubricating system for air blowers, B. Greenfield. 1,702,939; Feb. 19.
- Lubricating system for automobiles, H. L. Hubbard. 1,703,039; Feb. 19.
- Lubricating system for differential vehicle housings, J. F. Crawford. 1,741,501; Dec. 31.
- Lubricating system for hobbing machines, W. F. Zimmermann and H. W. Jacobson. 1,701,091; Feb. 5.
- Lubricating system for motor vehicles, A. C. Menges. 1,735,175; Nov. 12.
- Lubricating system for motor vehicles, R. V. Polen. 1,712,839; May 14.
- Lubricating system for oil burners, R. S. Thoresen. 1,718,766; June 25.
- Lubricating system, Magazine, C. T. Myers. 1,724,506; Aug. 13.
- Lubrication apparatus, Forced-, C. H. Clausen. 1,711,589; May 7.
- Lubrication, Automatic charge-limiting device for, E. Piquerez. 1,707,993; Apr. 9.
- Lubrication circulation for journal brasses, Apparatus for and system of, A. L. Moler. 1,719,071; July 2.
- Lubrication fitting, H. C. Gibson. 1,740,297; Dec. 17.
- Lubrication for cam engines, J. W. Davis. 1,702,686; Feb. 19.
- Lubrication indicator for automobiles, A. M. Drummy. 1,718,855; June 25.
- Lubrication of internal-combustion engines, S. Kraljevich. 1,702,348; Feb. 19.
- Lubrication of scaled mechanism, J. H. Wilson. 1,713,634; May 21.
- Lubrication of tools, E. Penberthy. 1,700,419; Jan. 29.
- Lubrication, System of, W. G. Phelps. 1,737,124; Nov. 26.
- Lubricator, See—
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|-----------------------|-----------------------------------|
| Automatic lubricator. | Pressure lubricator.              |
| Bearing lubricator.   | Rail and wheel-flange lubricator. |
| Chain lubricator.     | Rod-pin lubricator.               |
| Crank-pin lubricator. | Top cylinder lubricator.          |
| Cylinder lubricator.  | Track lubricator.                 |
| Grease lubricator.    | Valve lubricator.                 |
| Level lubricator.     |                                   |
| Meter lubricator.     |                                   |
- Lubricator, E. F. Collins. 1,737,570; Dec. 3.
- Lubricator, F. Dorsey. 1,698,157; Jan. 8.
- Lubricator, L. C. Duro. 1,735,266; Nov. 12.
- Lubricator, C. C. Hansen. 1,702,604; Feb. 19.
- Lubricator, J. J. Hennessy. 1,699,451; Jan. 15.
- Lubricator, J. J. Hennessy. 1,704,742-3; Mar. 12.
- Lubricator, J. J. Hennessy. 1,730,934; Oct. 8.
- Lubricator, A. F. G. Lucas and E. E. Clement. 1,702,446; Feb. 19.
- Lubricator, A. F. C. Lucas and E. E. Clement. 1,702,477; Feb. 19.
- Lubricator, D. W. McGee. 1,714,181; May 21.
- Lubricator, G. F. Meier. 1,713,292; May 14.
- Lubricator, E. B. Oliver. 1,714,809; May 28.
- Lubricator, R. S. Osborne. 1,721,231; July 16.
- Lubricator, C. E. Padilla. 1,727,130; Sept. 3.
- Lubricator, W. I. Searcy. 1,707,927; Apr. 2.
- Lubricator, I. A. Seiders. 1,713,924; May 21.
- Lubricator, J. C. Sharp. 1,737,344; Nov. 26.
- Lubricator, G. P. Simmons. 1,739,377; Dec. 10.
- Lubricator, H. Vissering. 1,721,891; July 23.
- Lubricator, S. T. Voll. 1,716,252; June 4.
- Lubricator, D. B. Whitehill. 1,729,143; Sept. 24.
- Lubricator for bridge trunnions, J. B. Strauss. 1,724,532; Aug. 13.
- Lubricator for loom picker spindles, R. G. Turner. 1,724,324; Aug. 13.
- Lubricator for railway journal boxes, C. B. Royal. 1,720,445; July 9.
- Lubricator indicator, P. Shapiro. 1,706,001; Mar. 19.
- Lubricators, Automatic variable adjusting means for, C. D. Allen. 1,724,865; Aug. 13.
- Lubrometer, J. H. Hammond, jr. 1,730,138; Oct. 1.
- Lug cleaner, H. G. Yetter. 1,699,577; Jan. 22.
- Lug cleaner, Tractor-wheel-, L. C. Johnson. 1,719,330; July 2.
- Lug for automobile wheels, Rim, J. A. Shea. 1,699,679; Jan. 22.
- Lug for tractor wheels and the like, J. and F. Thies. 1,712,911; May 14.
- Lug, Mud, H. W. and E. B. Leavitt. 1,727,652; Sept. 10.
- Lug, Traction-wheel, H. E. Altgelt. 1,735,715; Nov. 12.
- Lugs, Making traction, W. J. Coultas. 1,741,450; Dec. 31.
- Lugs, Process of making terminal, J. Stubbers. 1,717,276; June 11.
- Luggage, A. S. Acheson. 1,703,132; Feb. 26.
- Luggage, F. H. Langmuir. 1,698,848; Jan. 15.
- Luggage carrier, H. J. Beauford. 1,711,717; May 7.
- Luggage carrier, E. F. Engel. 1,740,232; Dec. 17.
- Luggage carrier, J. E. Garvin. 1,714,263; May 21.
- Luggage carrier, J. H. Kintzele. 1,710,093; Apr. 23.
- Luggage carrier, B. S. McCall. 1,723,798; Aug. 6.
- Luggage carrier, F. A. Ruff. 1,704,345; Mar. 5.
- Luggage carrier, Collapsible, R. Whitcomb. 1,712,185; May 7.
- Luggage carrier, Detachable, J. Clark, sr. 1,712,869; May 14.
- Luggage carrier for vehicles, D. C. Rogers. 1,737,432; Nov. 26.
- Luggage carrier, Vehicle, F. W. Harryhausen. 1,726,149; Aug. 27.
- Luggage case, V. L. Krannert. 1,712,772; May 14.
- Luggage guard, J. Rosenbaum. 1,734,182; Nov. 5.
- Luggage retainer, M. C. Skaggs and C. Mallette. 1,740,670; Dec. 24.
- Luggage, Wardrobe hand, B. M. Hamlin. 1,730,137; Oct. 1.
- Lumber and timber marking machine, J. G. McDonough. 1,715,206; May 28.
- Lumber, Drying, M. L. Mueller. 1,736,213; Nov. 19.
- Lumber-grade-marking machine, J. G. McDonough. 1,715,167; May 28.
- Lumber marker, J. G. McDonough. 1,715,207; May 28.
- Lumber-piling bar, A. A. Lund. 1,698,339; Jan. 8.
- Lumber, Process and machine for drying, E. W. Fowler. 1,725,708; Aug. 20.
- Lumber, Removing knots and other defects from, E. C. Loetscher. 1,703,980; Mar. 5.
- Lumber, Seasoning process for, R. Z. Drake. 1,718,221; June 25.



- Lumber-sorting machine. A. H. Onstad. 1,706,632; Mar. 26.
- Lumber-stabilizing device. L. Cappelletti. 1,741,010; Dec. 24.
- Lumber, Steel. W. C. Jones. 1,700,113; Jan. 22.
- Lumber, Steel. H. B. Sherman. 1,713,099; May 14.
- Lumber, Surfacing. W. C. Gardiner. 1,711,884; May 7.
- Luminair. W. A. Dorey. 1,731,714; Oct. 15.
- Luminair. T. W. Rolph. 1,724,726; Aug. 13.
- Luminair. T. W. Rolph and W. A. Dorey. 1,705,943; Mar. 19.
- Luminair. T. W. Rolph and W. A. Dorey. 1,724,727; Aug. 13.
- Luminescent tube. C. B. Lancaster. 1,721,700; July 23.
- Luminescent tube. P. F. J. Lebrun. 1,709,858; Apr. 23.
- Luminous effects, Process and apparatus for producing. H. J. Fanger. 1,728,234; Sept. 17.
- Luminous tube. R. Grandjean. 1,703,524; Feb. 26.
- Lunch box. P. Kempter. 1,737,249; Nov. 26.
- Lunch-counter seat. L. C. Sevier. 1,716,327; June 4.
- Lunch table, Automobile. O. A. Leatherman. 1,732,520; Oct. 22.
- Lure for fish, Artificial. W. A. Foss. 1,709,010; Apr. 16.
- Macaroni mold. G. Lubrano. 1,736,611; Nov. 19.
- Macaroni press. J. De Francisci. 1,700,670-1; Jan. 29.
- Macaroni press. J. De Francisci. 1,703,514; Feb. 26.
- Machine. H. McC. Stanford. 1,733,833; Oct. 29.
- Machine adapted for preparing self-lighting cigarettes. J. Parsons. 1,723,068; Aug. 6.
- Machine adapted for the washing of dishes and other tableware. J. Lütolf. 1,739,404; Dec. 10.
- Machine and method for assembling screw parts or the like. C. H. Bates. 1,742,173; Dec. 31.
- Machine and method for forming cables. J. R. Gammeter. 1,712,264; May 7.
- Machine and method for manufacturing heels. A. R. Taylor. 1,737,811; Dec. 3.
- Machine and method of operating on strip material. J. J. Caprioli. 1,717,917; June 18.
- Machine and process for making continuous helicoids or conveyers. J. O. Bailey. 1,698,149; Jan. 8.
- Machine and process for stretching webs. R. S. Dwight. 1,732,968; Oct. 22.
- Machine bar. L. E. Ridgeway. 1,701,122; Feb. 5.
- Machine casing or similar article, Display desk appliance. W. A. Uttz. Des. 80,250; Dec. 31.
- Machine casing, Vending-. L. H. Morin. 1,716,457; June 11.
- Machine clamp. B. P. Graves. 1,738,647; Dec. 10.
- Machine drive. J. P. Graber. 1,741,695; Dec. 31.
- Machine-driven selector. H. W. R. Thorelli. 1,710,750; Apr. 30.
- Machine element. D. C. Taylor. 1,721,796; July 23.
- Machine employed in connection with the manufacture of metal containers. J. M. Young. 1,702,584; Feb. 19.
- Machine fixture, Balancing-. T. C. Van Degrift. 1,731,833; Oct. 15.
- Machine for affixing adhesive labels. A. C. MacLean. 1,727,439; Sept. 10.
- Machine for and method of building heels. F. Hawkins. 1,732,362; Oct. 22.
- Machine for and method of dyeing cloth and otherwise treating textiles. W. P. Cohoe. 1,737,149; Nov. 26.
- Machine for and method of hardening hat bats. H. A. Genest. 1,738,494; Dec. 3.
- Machine for and process of bundling plaster-board units or the like. C. R. Birdsey. 1,730,113; Oct. 1.
- Machine for applying container closures. T. E. Penneck. 1,734,529; Nov. 5.
- Machine for applying corner irons. W. Berssenbrugge. 1,726,209; Aug. 27.
- Machine for applying labels and the like. O. Elsner. 1,727,870; Sept. 10.
- Machine for applying nuts to screws, bolts, and studs. R. S. Crosby. 1,739,712; Dec. 17.
- Machine for applying nuts to screws, bolts, and studs. R. S. Crosby and F. E. Newton. 1,737,876; Dec. 3.
- Machine for applying paint to canvas and the like. H. M. Sabey and F. J. Aldridge. 1,718,439; June 25.
- Machine for applying pasters to folders and the like. P. F. Murphy. 1,732,908; Oct. 22.
- Machine for applying powdered material to articles. D. G. Ackery. 1,724,543; Aug. 13.
- Machine for applying reinforcements to bags or the like. R. H. Plass. 1,723,072; Aug. 6.
- Machine for applying seals to cushion inserts. F. C. Lundell and C. B. Regan. 1,738,781; Dec. 10.
- Machine for applying straps to bundles. W. S. Ryan. 1,732,619; Oct. 22.
- Machine for arranging paving materials. C. S. Pope. 1,720,377; July 9.
- Machine for assembling bolts and nuts. J. A. Kinney. 1,715,606; June 4.
- Machine for assembling fuses. C. A. Johnson. 1,741,719; Dec. 31.
- Machine for assembling spoked wheels. W. N. Booth. 1,708,439; Apr. 9.
- Machine for assembling wooden skewers or other articles. C. P. Ricker. 1,702,019; Feb. 12.
- Machine for attaching identification seals on skins. P. P. Linden. 1,719,480; July 2.
- Machine for attaching latches to latch knitting needles. G. W. Mayo. 1,732,523; Oct. 22.
- Machine for attaching rivets to articles. A. R. Havener. 1,730,140; Oct. 1.
- Machine for attaching soles to lasted shoes. H. Walther. 1,709,293; Apr. 16.
- Machine for automatic cutting of recesses or the like in straight or curved direction on surfaces. A. Jørgensen. 1,739,465; Dec. 10.
- Machine for automatically coating tubes, pipes, etc. G. Buchert. 1,706,348; Mar. 19.
- Machine for automatically cutting slate into sheets. A. Parnet. 1,739,414; Dec. 10.
- Machine for automatically gathering and collating sheets and the like. G. W. Young. 1,726,010; Aug. 27.
- Machine for bending armature conductors. G. W. Elsey. 1,703,188; Feb. 26.
- Machine for bending flat metal strips into spirals. H. S. Powell. 1,739,040; Dec. 10.
- Machine for bending wire. E. V. Swangren. 1,711,160; Apr. 30.
- Machine for bobbin-to-bobbin sizing. W. B. Crompton. 1,724,397; Aug. 13.
- Machine for boring spherical sockets. J. H. Uhrig. 1,710,462; Apr. 23.
- Machine for broaching spiral gears. J. L. Perkins and H. D. Croft. 1,739,609; Dec. 17.
- Machine for broadcasting a wide area of illumination. T. J. Bowen. 1,718,850; June 25.
- Machine for building randed heels. E. Hansalpakar. 1,707,760; Apr. 2.
- Machine for casting printing plates without a riser. H. A. W. Wood. 1,728,148; Sept. 10.
- Machine for casting tension upon fabrics. H. M. Eaton. 1,723,924; Aug. 6.
- Machine for casting tubular stereotype printing plates. H. A. W. Wood. 1,703,977; Mar. 5.
- Machine for channeling the soles of boots or shoes. A. Bates and A. H. Dodd. 1,733,178; Oct. 29.
- Machine for cleaning cotton. H. E. Tomlinson. 1,736,142; Nov. 19.
- Machine for cleaning fruit. J. H. Richards. 1,723,441; Aug. 6.
- Machine for closing and stamping rims. W. N. Booth. 1,709,002; Apr. 16.
- Machine for closing sacks. H. Anderson and F. O. Lindgren. 1,738,511; Dec. 10.
- Machine for coating tubes. E. Conti. 1,707,711; Apr. 2.
- Machine for collecting shingles. P. J. Paffen. 1,701,760; Feb. 12.
- Machine for combing textile fibers with intermittently-rotating nip drums. C. Schleifer. 1,715,473; June 4.
- Machine for conditioning gravel. H. Kenyon. 1,725,868; Aug. 27.
- Machine for conditioning sash bars. T. S. Archibald. 1,701,602; Feb. 12.
- Machine for conforming uppers to lasts. J. Gouldbourn and W. T. Roberts. 1,710,729; Apr. 30.
- Machine for conveying and stowing loose material. K. Davis. 1,717,876; June 18.
- Machine for corrugating metal tubes. J. A. Ziegler. 1,727,918; Sept. 10.
- Machine for corrugating tubular metal bodies. C. J. Rhodes. 1,727,358; Sept. 10.
- Machine for counting and packaging articles. R. S. Crosby and F. E. Newton. 1,737,877; Dec. 3.
- Machine for cracking and shelling nuts. J. and R. Colecliffe. 1,703,989; Mar. 5.
- Machine for crimping coin tubes. C. L. Downey. 1,721,377; July 16.
- Machine for cross-shearing rubber strips. T. Mulholland. 1,699,985; Jan. 22.
- Machine for cutting a moving web into strips. W. E. Molins. 1,733,076; Dec. 3.
- Machine for cutting and folding tags, labels, or hangers. S. E. Bailey. 1,709,108; Apr. 16.
- Machine for cutting and stacking sheet metal and the like. J. H. Young and W. G. Frink. 1,712,241; May 7.
- Machine for cutting belts and rings from tubular stock. G. L. Hammond and L. H. Messinger, jr. 1,721,905; July 23.
- Machine for cutting designs, letters, etc. T. Townsend. 1,698,833; Jan. 15.
- Machine for cutting double-helical or double-spiral gears. P. Böttcher. 1,709,835; Apr. 23.
- Machine for cutting float thread. G. Cordier. 1,713,375; May 14.
- Machine for cutting gaskets. V. Wright. 1,740,530; Dec. 24.
- Machine for cutting meat. C. A. F. Linde. 1,726,356; Aug. 27.
- Machine for cutting meat, etc. P. D. Trear. 1,741,042; Dec. 24.
- Machine for cutting off bands. H. O. Rovig. 1,733,316; Oct. 29.
- Machine for cutting off lengths from bars. L. G. Taylor. 1,707,100; Mar. 26.
- Machine for cutting or shearing tubes. H. J. Davis. 1,736,700; Nov. 19.
- Machine for cutting ribbons from bias or straight-woven textile fabric, leather, rubber, or other similar materials. S. A. Brandon. 1,734,848; Nov. 5.
- Machine for cutting sheet material. C. M. Yoder. 1,724,059; Aug. 13.
- Machine for cutting skeleton soles. F. G. Hooke and J. J. Flynn. 1,719,511; July 2.
- Machine for cutting threads upon screw blanks. P. L. Stenman. 1,737,739; Dec. 3.



- Machine for cutting tubes and similar articles. II. W. Ostrander. 1,709,369; Apr. 16.
- Machine for cylinder-block repairing. Combination. K. R. Wilson. 1,702,679; Feb. 19.
- Machine for decorticating fibrous parts of agaves and other plants. F. Mertz. 1,725,815; Aug. 27.
- Machine for delivering fur to hat formers. G. Grover. 1,731,305; Oct. 15.
- Machine for depositing plastic or semiliquid substances such as chocolate. W. E. Prescott. 1,699,447; Jan. 15.
- Machine for descaling boilers. F. L. Schleicher. 1,703,695; Feb. 26.
- Machine for digging up ground from below the surface. M. Jaeger. 1,740,923; Dec. 24.
- Machine for displaying advertising matter. E. E. Blake. 1,741,092; Dec. 24.
- Machine for distributing poison for gophers. W. K. Humphrey. 1,702,300; Feb. 19.
- Machine for double seaming covers on can bodies. H. G. Hill. 1,727,770; Sept. 10.
- Machine for drawing pipes from molds. J. B. Ladd. 1,723,792; Aug. 6.
- Machine for dressing reeds used for cigarette mouth-pieces. A. H. C. Maul. 1,700,849; Feb. 5.
- Machine for drying coated webs. C. J. Merrill. 1,737,015; Nov. 26.
- Machine for drying photographic prints. J. W. Robinson. 1,741,882; Dec. 31.
- Machine for dyeing, scouring, and washing wool and other fibrous materials. J. and R. Whitaker. 1,742,114; Dec. 31.
- Machine for enlarging and reducing forms. B. Nebel. 1,714,984; May 28.
- Machine for extracting hulls of cotton bolls from seed cotton. S. Williams. 1,726,203; Aug. 27.
- Machine for fabricating materials and making carcasses. H. I. Morris. 1,732,525; Oct. 22.
- Machine for fabricating wire-spring structures. W. G. Lehmann and D. T. Owen. 1,705,821; Mar. 19.
- Machine for feeding coupons, labels, and the like. C. Littlefield. 1,718,968; July 2.
- Machine for feeding, molding, and cutting dough. J. B. Icre. 1,726,566; Sept. 3.
- Machine for feeding nut blanks and the like. P. H. McCain. 1,718,166; June 18.
- Machine for feeding strips and the like. R. R. Shay. 1,720,530; July 9.
- Machine for filling baking pans. J. Weber and L. G. Morten. 1,715,968; June 4.
- Machine for finishing book covers. H. Dunn. 1,709,252; Apr. 16.
- Machine for finishing flooring. E. C. Dittmar. 1,719,001; July 2.
- Machine for finishing gear teeth. C. H. Schurr. 1,697,823; Jan. 1.
- Machine for finishing stone. E. A. Chase. 1,740,154; Dec. 17.
- Machine for flax dressing. Automatic. C. and M. Leterme. 1,715,768; June 4.
- Machine for folding edges of sheet material. J. Rosenthal. 1,705,457; Mar. 12.
- Machine for folding noodles. C. Surico and P. Cardone. 1,706,637; Mar. 26.
- Machine for folding noodles. C. Surico and P. Cardone. 1,711,431; Apr. 30.
- Machine for folding sheet metal. F. Menne. 1,739,249; Dec. 10.
- Machine for folding the corners of book covers. C. G. Rolline and C. Norre. Re17,231; Mar. 12.
- Machine for forming armature conductors. W. L. O'Brien. 1,721,636; July 23.
- Machine for forming armored insulated conductors. J. H. Hunter. 1,714,787; May 28.
- Machine for forming bushings. N. Skillman. 1,731,988; Oct. 15.
- Machine for forming containers from plastic material. F. W. McArdle. 1,705,024; Mar. 12.
- Machine for forming fire-retarding strips. II. B. Rowland. 1,701,638; Feb. 12.
- Machine for forming gaskets. M. M. Cody. 1,736,770; Nov. 26.
- Machine for forming glass articles. R. La France. 1,739,845; Dec. 17.
- Machine for forming interchangeable fashioned moldings. H. G. Kellogg. 1,710,261; Apr. 23.
- Machine for forming metal bands. M. E. Widell. 1,731,478; Oct. 15.
- Machine for forming metal strips and making sections for radiator cores. M. Hazen. 1,704,321; Mar. 5.
- Machine for forming pastries and the like. J. C. Bergner. 1,702,191; Feb. 12.
- Machine for forming tapered cork stoppers. A. S. Greene. 1,705,185; Mar. 12.
- Machine for generating gear wheels. H. D. Colman. 1,712,254; May 7.
- Machine for generating the teeth of gears and gear-shaped cutters. O. G. Simmons. 1,697,666; Jan. 1.
- Machine for generating worm wheels. C. H. Schurr. 1,714,109; May 21.
- Machine for gluing veneer edges. M. W. Perry. 1,739,088; Dec. 10.
- Machine for gluing veneer strips and similar work. C. Weber. 1,702,185; Feb. 12.
- Machine for grading globular articles. J. Schmidt. 1,733,757; Oct. 29.
- Machine for graphnrite and other minerals. Flotation. R. de Robillard. 1,720,284; July 9.
- Machine for grinding bobs, worms, and the like. J. Edgar. 1,724,699; Aug. 13.
- Machine for grinding meat and the like. A. C. Van Hooydonk. 1,736,333; Nov. 19.
- Machine for grinding razor blades. A. E. Harms and O. F. Jennow. 1,701,108; Feb. 5.
- Machine for grinding the end faces of the lips of twist drills. S. C. Probert and R. E. Spurr. 1,714,136; May 21.
- Machine for grinding twist drills. S. C. Probert and R. E. Spurr. 1,710,647; Apr. 23.
- Machine for grinding valves and analogous objects. J. H. Littler. 1,738,011; Dec. 3.
- Machine for gum-stripping tips of beads. J. A. Shively. 1,732,776; Oct. 22.
- Machine for handling brush material. G. C. Cleaves. 1,714,547; May 28.
- Machine for hermetically-closing preserve jars. G. Hietzger. 1,709,789; Apr. 16.
- Machine for incorporating stiffeners in boots and shoes. F. Ricks. 1,704,839; Mar. 12.
- Machine for inserting belt lacings. G. E. Purple. 1,740,959; Dec. 24.
- Machine for inserting fastenings. G. Goddu. 1,731,854; Oct. 15.
- Machine for inspecting films. A. S. Dworsky. 1,710,879; June 11.
- Machine for interfolding sheets. G. A. Shaffer and F. H. Wirtz. 1,707,580; Apr. 2.
- Machine for knitting thickened-wale structures. R. W. Scott. 1,709,882; Apr. 23.
- Machine for lading and pouring purposes. M. Laronde. 1,718,159; June 18.
- Machine for lapping and stitching fabric sections. J. R. Moffatt. 1,741,872; Dec. 31.
- Machine for lining paper-box blanks. C. H. Ohlsson. 1,732,948; Oct. 22.
- Machine for magazining nuts. J. W. Gibney. 1,719,221; July 2.
- Machine for making and applying waistbands to trousers. W. E. Le Roy and W. B. Foster. 1,712,305; May 7.
- Machine for making and inserting wire devices. E. Craig. 1,726,528; Sept. 3.
- Machine for making annular pieces of candy. E. C. Miller. 1,726,113; Aug. 27.
- Machine for making barrels. E. F. Beugler. 1,723,838; Aug. 6.
- Machine for making box partitions. W. E. Beck. 1,710,467; Apr. 23.
- Machine for making brushes. A. Van Veen. 1,706,715; Mar. 26.
- Machine for making buttons and the like. G. C. Ekström and B. A. E. Johnson. 1,697,558; Jan. 1.
- Machine for making cable armor and flexible metallic conduit. H. E. Bryant. 1,708,049; Apr. 9.
- Machine for making castings. F. C. Langenberg. 1,715,418; June 4.
- Machine for making castings. F. H. Morehead. 1,715,421; June 4.
- Machine for making chaplets. H. S. Powell. 1,727,730; Sept. 10.
- Machine for making commutator brushes and the like. E. J. Hall. 1,728,273; Sept. 17.
- Machine for making composite sheets. L. McCarthy. 1,740,662; Dec. 24.
- Machine for making concrete blocks. E. Widin. 1,733,706; Oct. 29.
- Machine for making confections and the like. C. G. Hall. 1,719,931; July 9.
- Machine for making copies on the hectograph principle. W. E. Williams. 1,724,242; Aug. 13.
- Machine for making corded braid. M. Krissiep. 1,726,904; Sept. 3.
- Machine for making edible cups. W. E. Wilson, W. J. Gleyre, and M. G. Homan. 1,732,322; Oct. 22.
- Machine for making egg-case flats. S. Smith. 1,735,340; Nov. 12.
- Machine for making elastic paper. W. A. Lorenz. 1,701,685; Feb. 12.
- Machine for making envelopes. F. J. Parks. 1,715,717; June 4.
- Machine for making expanded-metal structures. W. A. Bates. 1,714,292; May 21.
- Machine for making expander steel. G. C. Beck. 1,741,905; Dec. 31.
- Machine for making fasteners. H. Gallet. 1,707,758; Apr. 2.
- Machine for making fiber tubes. H. Parker. 1,729,358; Sept. 24.
- Machine for making flat noodles. L. De Vito. 1,738,361; Dec. 3.
- Machine for making garment containers. L. E. La Bombard and M. H. Sidebotham. 1,698,550; Jan. 8.
- Machine for making hollow-base tires or other rubber articles. W. C. Stevens. 1,738,505; Dec. 3.
- Machine for making hollow metal balls. A. M. Rutter. 1,712,446; May 7.
- Machine for making ice-cream cones. W. M. Roberts. 1,708,898; Apr. 9.
- Machine for making incandescent lamps and similar articles. J. T. Fagan, F. J. Rippl, and J. J. Malloy. 1,708,756; Apr. 9.



- Machine for making index tubes, Method of and. R. F. Taber. 1,738,334; Dec. 3.
- Machine for making insulating bats. C. A. Upson. 1,713,309; May 14.
- Machine for making laminated counter blanks and other articles. B. F. Hartwell. 1,739,670; Dec. 17.
- Machine for making lath board. C. A. Stickney. 1,698,925; Jan. 15.
- Machine for making matches from sheet material. C. F. Wright. 1,718,994; July 2.
- Machine for making metal hoops. A. M. Walstrom. 1,719,250; July 2.
- Machine for making pasteboard boxes. J. H. Stortz. 1,730,543; Oct. 8.
- Machine for making photographic prints. C. Barbieri and P. Carpenter. 1,721,850; July 23.
- Machine for making separable fastener studs. M. F. Carr. 1,711,455; Apr. 30.
- Machine for making sheet products. S. A. Williams and T. C. Pond. 1,724,154; Aug. 13.
- Machine for making sheets and boards. C. A. Upson. 1,707,375; Apr. 2.
- Machine for making shoes. S. Strauss. 1,725,314; Aug. 20.
- Machine for making spectacle temples. R. H. Simonds. 1,736,956; Nov. 26.
- Machine for making spectacle temples. J. W. Welsh. 1,736,955; Nov. 26.
- Machine for making spiral fin tubing. C. W. Owston. 1,732,415; Oct. 22.
- Machine for making spirally-wound tubes. C. F. Smith. 1,723,258; Aug. 6.
- Machine for making surgical elastic garments. P. E. F. Clay. 1,715,224; May 28.
- Machine for making tile. G. B. Stead. 1,739,379; Dec. 10.
- Machine for making tire-forming material. H. I. Morris. 1,726,755; Sept. 3.
- Machine for making vacuum tubes. C. E. Fitch. 1,730,926; Oct. 8.
- Machine for making wrapping bands. K. Youngblood. 1,734,321; Nov. 5.
- Machine for manufacture of paper articles. A. Hudson. 1,714,785; May 28.
- Machine for manufacturing and mounting pinions and wheels. A. H. Neureuther. 1,709,146; Apr. 16.
- Machine for manufacturing boots and shoes. H. Walther. 1,737,484; Nov. 26.
- Machine for manufacturing cheese. A. S. Kux. 1,713,537; May 21.
- Machine for manufacturing electric incandescent lamps and similar articles, Automatic. G. Illingworth. 1,733,881; Oct. 29.
- Machine for manufacturing pulp articles. J. F. Low. 1,717,988; June 18.
- Machine for manufacturing roofing tile. I. Greenberg. 1,711,849; May 7.
- Machine for manufacturing triplicate notebooks. R. Gompf. 1,707,907; Apr. 2.
- Machine for manufacturing tubular bodies from plastic substances. A. Hanns. 1,717,507; June 18.
- Machine for marking hats and the like. N. C. Smith. 1,727,416; Sept. 10.
- Machine for mixing dry and liquid materials. G. V. Roberts, jr. 1,720,573; July 9.
- Machine for mixing eggs. J. M. Jung. 1,709,023; Apr. 16.
- Machine for mixing road-making materials. R. E. Bressler and A. F. Hirschel. 1,708,965; Apr. 16.
- Machine for mixing road material. J. W. Osborne. 1,741,035; Dec. 24.
- Machine for mixing two or more substances with each other. H. Eriksson. 1,740,166; Dec. 17.
- Machine for moistening and cooling fabrics. P. W. Custer. 1,715,818; June 4.
- Machine for moistening cloth. D. Gessner. 1,737,790; Dec. 3.
- Machine for moistening yarn. H. Pferdmeiges. 1,717,249; June 11.
- Machine for molding baker's dough into loaves or cakes. E. Pensotti. 1,706,127; Mar. 19.
- Machine for molding cork rods. B. Nagy. 1,711,962; May 7.
- Machine for mounting tile. L. S. Jones, G. W. Fisher, C. G. Henrikson, and N. C. Butler. 1,724,764; Aug. 13.
- Machine for operating on boots and shoes. G. Goddu and F. L. MacKenzie. 1,709,347; Apr. 16.
- Machine for operating on footwear. R. E. Duplessis. 1,706,278; Mar. 19.
- Machine for operating on heels. N. H. Knowlton. 1,738,587; Dec. 10.
- Machine for operating on heels. E. J. Ray. 1,733,200-01; Oct. 29.
- Machine for operating on parts of boots and shoes. E. E. Sabin. 1,722,315; July 30.
- Machine for operating on sheet materials. B. F. Mayo. 1,729,225; Sept. 24.
- Machine for operating on shoe parts. J. B. Hadaway. 1,720,728; July 16.
- Machine for operating on shoe soles. H. A. Barwick. 1,712,482; May 14.
- Machine for operating on the soles of shoes. J. L. Pree and I. Henne. 1,697,251; Jan. 1.
- Machine for operating upon blanks. E. A. Holmgren. 1,725,758; Aug. 27.
- Machine for operating upon insoles. F. H. Perry. 1,737,728; Dec. 3.
- Machine for operating upon lasts. A. F. Pym. 1,723,301; Aug. 6.
- Machine for operating upon pieces of stock. F. Ricks. 1,705,586; Mar. 19.
- Machine for operating upon soles. A. D. Willhauck. 1,737,745; Dec. 3.
- Machine for operating upon the heel ends of boots and shoes. C. M. Bagshaw. 1,698,902; Jan. 15.
- Machine for operating upon the soles of boots or shoes. J. Slater. 1,702,670; Feb. 19.
- Machine for operating upon the soles of shoes. A. Eppler. 1,709,342; Apr. 16.
- Machine for ornamenting leather. F. B. Ballou and J. Y. Lake. 1,700,968; Feb. 5.
- Machine for packaging paper tubes. C. F. Smith. 1,722,019; July 23.
- Machine for packaging cigarettes. R. W. Voigt. 1,706,716; Mar. 26.
- Machine for packing asparagus. G. S. Hirakawa. 1,705,920; Mar. 19.
- Machine for passing tape through hooks. G. Lapierre. 1,697,603; Jan. 1.
- Machine for peeling potatoes, apples, and the like. P. Borer. 1,702,992; Feb. 19.
- Machine for perforating cigarette wrappers and the like. E. Caldwell. 1,711,487; May 7.
- Machine for perforating clamping lugs attached to tire-carrying rims. W. N. Booth. 1,702,378; Feb. 19.
- Machine for perforating paper from rolls. J. Cook. 1,726,611; Sept. 3.
- Machine for perforating, Process of and. P. R. Glass. Re17,208; Feb. 5.
- Machine for performing finishing operations upon boot or shoe parts. A. D. Willhauck. 1,719,156; July 2.
- Machine for phosphating and washing fabrics, Continuously-operating. M. Rattignier. 1,726,858; Sept. 3.
- Machine for planing, grinding, drilling, milling, sawing, and other operations, Portable electrically-driven. B. Simonides. 1,727,383; Sept. 10.
- Machine for powdering plates to be etched. W. J. Logan. 1,724,671; Aug. 13.
- Machine for preparing bases for rails and the like. E. G. Carr. 1,704,382; Mar. 5.
- Machine for preparing heel seats. J. L. Pree and I. Henne. 1,706,497; Mar. 26.
- Machine for preparing rolled beef. A. Gerstenkorn. 1,720,359; July 9.
- Machine for preparing toast, toasted sandwiches, baked waffles, and the like. F. E. Hummel and J. J. Noeth. 1,701,677; Feb. 12.
- Machine for pressing or leveling the soles of boots and shoes. M. T. Denne. 1,698,910; Jan. 15.
- Machine for processing fibrous-filling materials. M. Goldberg. 1,735,749; Nov. 12.
- Machine for processing sheet materials. H. Horsfall. 1,717,976; June 18.
- Machine for producing air waves. R. W. Chapman. 1,727,861; Sept. 10.
- Machine for producing curved tooth gears. E. Wildhaber. 1,724,241; Aug. 13.
- Machine for producing figured paper. C. G. Hampson. 1,741,697; Dec. 31.
- Machine for producing gears. A. H. Candee and M. H. Johanson. 1,732,632; Oct. 22.
- Machine for producing gears. H. J. White. 1,730,637; Oct. 8.
- Machine for producing insulating sleeves. J. W. Channell. 1,737,640; Dec. 3.
- Machine for producing lens-grinding tools. J. J. McCabe. 1,711,801; May 7.
- Machine for producing printing plates. F. D. Pearne, I. R. Metcalf, and W. Howey. 1,719,621; July 2.
- Machine for producing raised printing. R. F. Berndt and J. J. Halloran. 1,739,492; Dec. 17.
- Machine for pulling fastenings. F. L. Mackenzie. 1,711,608; May 7.
- Machine for raising nap on textiles and the like. A. O. Schramm and J. H. Schreiber. 1,741,542; Dec. 31.
- Machine for ramming paving stones or the like. E. H. Carlsson. 1,702,720; Feb. 19.
- Machine for reclaiming rails. H. B. Kraut. 1,714,603; May 28.
- Machine for reducing printing plates to uniform thickness. L. W. Claybourn. 1,738,759; Dec. 10.
- Machine for reducing records to graphs. C. C. Scott. 1,729,630; Oct. 1.
- Machine for refining paper and pulp. L. H. Wessel. 1,706,944; Mar. 26.
- Machine for reforming the flanges of can bodies. H. A. Fink. 1,719,759; July 2.
- Machine for removing foreign matter from fibrous materials. L. D. Chapman. 1,710,344; Apr. 23.
- Machine for removing snow. F. Coic. 1,702,029; Feb. 12.
- Machine for removing snow. E. Thode. 1,723,958; Aug. 6.
- Machine for removing surplus material from boots and shoes. B. Jorgensen. 1,738,584; Dec. 10.
- Machine for removing wax from plates. A. R. Koehler. 1,721,224; July 16.
- Machine for repairing patent leathers. F. M. Furber. 1,704,827; Mar. 12.
- Machine for rock or coal cutting. F. J. B. Berry. 1,740,761; Dec. 24.
- Machine for rolling rims and other annular objects. C. C. Grotnes. 1,720,833; July 16.



- Machine for rolling soles. C. and P. Nohr. 1,697,511; Jan. 1.
- Machine for rolling up strip material. F. H. Meyer. 1,730,675; Oct. 8.
- Machine for sanding moldings. C. W. Duben. 1,718,781; June 25.
- Machine for scoring ice by fluid-pressure means. G. Braungart, jr., and F. Kaye, sr. 1,732,325; Oct. 22.
- Machine for scoring wooden boards. P. Rüttiman, sr., and F. Holzscheiter. 1,738,966; Dec. 10.
- Machine for scrubbing floors. K. L. Moritz. 1,737,513; Nov. 26.
- Machine for sealing caps to jars. S. N. Tevander. 1,739,875; Dec. 17.
- Machine for sealing crate cushions. J. H. Woodall. 1,715,809; June 4.
- Machine for securing brush fibers to metallic strips. A. Van Veen. 1,701,088; Feb. 5.
- Machine for securing neck wires to bottles. O. H. Flint. 1,710,769; Apr. 30.
- Machine for securing together two or more pieces of sheet material. B. F. Mayo. 1,735,350; Nov. 12.
- Machine for separating fibers from fiber-yielding plants. T. G. Booth. 1,709,001; Apr. 16.
- Machine for serving tacks, nails, etc. C. Hultgren. 1,727,063; Sept. 3.
- Machine for setting up and printing music. J. L. Lenouvel and P. Chapsal. 1,726,110; Aug. 27.
- Machine for setting up cartons. M. Burger. 1,738,034; Dec. 3.
- Machine for sewing looped fabrics. S. T. Arnold. 1,728,714; Sept. 17.
- Machine for sewing pockets. J. F. Gail. 1,720,658; July 16.
- Machine for shaping a tobacco mass. E. R. Dahlstrom. 1,716,117; June 4.
- Machine for shaping box blanks and similar purposes. H. B. Smith. 1,712,971; May 14.
- Machine for shaping heels. N. L. Gulliford. 1,725,578; Aug. 20.
- Machine for shaping pieces of dough. F. Aeschbach. 1,724,816-17; Aug. 13.
- Machine for shaping tires and inserting airbags therein. R. W. Snyder. 1,732,778; Oct. 22.
- Machine for shaping uppers. B. Jorgensen. 1,721,736; July 23.
- Machine for shaping uppers over lasts. W. C. Baxter. 1,702,397; Feb. 19.
- Machine for shaping uppers over lasts. B. Jorgensen. 1,710,735; Apr. 30.
- Machine for sharpening blades. A. A. Kohlmler. 1,734,494; Nov. 5.
- Machine for shaving sound-record tablets. C. W. Luhr. 1,721,913; July 23.
- Machine for sorting fruit, vegetables, and products of like nature. W. Oleman. 1,699,909; Jan. 22.
- Machine for spinning composite yarns. P. D. Cannon. 1,732,592; Oct. 22.
- Machine for spinning. Preparing. 1,738,099; Dec. 3.
- Machine for splitting leather. T. J. O'Keeffe. 1,723,201; Aug. 6.
- Machine for splitting pearl-button blanks. G. A. Lippincott. 1,712,223; May 7.
- Machine for splitting pigs' feet. C. J. Kaufmann and T. A. Smith. 1,720,127; July 9.
- Machine for staining shingles. H. E. Gosch. 1,732,935; Oct. 22.
- Machine for stamping out molds. J. Darling. 1,714,214; May 21.
- Machine for sterilizing and washing fruit. A. Guignard. 1,708,364; Apr. 9.
- Machine for straightening and cutting wire. F. G. Hutchinson. 1,703,885; Mar. 5.
- Machine for stripping tobacco leaves. M. G. P. Phillips. 1,718,664; June 25.
- Machine for stuffing and capping cans. M. E. Brigham. 1,705,082; Mar. 12.
- Machine for swaging saw teeth. H. Raimann. 1,716,241; June 4.
- Machine for switches, Glass-working. G. A. Millar. 1,701,759; Feb. 12.
- Machine for testing metal rods. L. A. Wilson. 1,725,892; Aug. 27.
- Machine for the combing or hackling of coco-bristle fibers or other like operations. P. V. Appleby. 1,715,443; June 4.
- Machine for the manufacture of fluted columns. J. H. Schlafly. 1,714,108; May 21.
- Machine for the manufacture of glass articles. R. F. Hall. 1,739,140; Dec. 10.
- Machine for the manufacture of glass articles. S. Hunt. 1,720,552; July 9.
- Machine for the manufacture of glass articles. S. Hunt. 1,739,145; Dec. 10.
- Machine for the manufacture of lath blinds. W. S. Pate-man. 1,723,558; Aug. 6.
- Machine for the manufacture of nails from wire. J. Wikschtröm. 1,739,745; Dec. 17.
- Machine for the manufacture of screws. J. F. Arnold. 1,731,036; Oct. 8.
- Machine for the manufacture of the curved teeth of bevel wheels. P. Uhlich. 1,725,431; Aug. 20.
- Machine for the mechanical production of paper cups pressed in folds. E. Schmidt. 1,741,884; Dec. 31.
- Machine for the obtainment of gathered work. E. L. Ezbelen. 1,703,728; Feb. 26.
- Machine for tightening screws. R. W. Baker and O. Shaw. 1,716,365; June 11.
- Machine for treating belts. A. J. Collins. 1,734,365; Nov. 5.
- Machine for treating chocolate masses or other materials. J. Walker. 1,697,441; Jan. 1.
- Machine for treating cottonseed hulls. P. H. Minck. 1,725,013; Aug. 20.
- Machine for treating fabrics, Continuous. M. F. Rooney. 1,722,482; July 30.
- Machine for treating fabrics with liquid. G. Haerblin. 1,706,691; Mar. 26.
- Machine for treating feathers for use in beds and the like. H. Bauer. 1,699,041; Jan. 15.
- Machine for treating food articles. M. Harrison. 1,731,743; Oct. 15.
- Machine for treating hides, skins, and leather. C. H. Becker. 1,707,383; Apr. 2.
- Machine for treating rubber and like material. R. C. Lewis. 1,713,959; May 21.
- Machine for treating rubber and similar material. R. C. Lewis. 1,721,962; July 23.
- Machine for treating skein yarn. N. Walker and H. Davis. 1,730,025; Oct. 1.
- Machine for treating stone. J. Wegner. 1,722,724; July 30.
- Machine for treating the tops of pineapples. C. H. Dolan, jr. 1,723,606; Aug. 6.
- Machine for treating the tops of pineapples. C. H. Dolan, jr. 1,734,159; Nov. 5.
- Machine for treating boots and shoes. W. A. Copeland. 1,731,736; Oct. 15.
- Machine for trimming bearings. A. H. Wadell. 1,698,862; Jan. 15.
- Machine for trimming metal caps. A. W. Paull and W. T. Davis. 1,732,529; Oct. 22.
- Machine for trimming veneer. F. Diehl. 1,740,972; Dec. 24.
- Machine for turning bobbin blanks. J. J. Witt. 1,703,806; Feb. 26.
- Machine for turning eccentric curved surfaces. A. L. Teetor. 1,703,559; Feb. 26.
- Machine for turning-in edges of high-grade leather goods. M. Köppe. 1,717,929; June 18.
- Machine for turning wood wheels. N. L. Gulliford. 1,704,319; Mar. 5.
- Machine for twisting metal strips. W. Lowe. 1,740,612; Dec. 24.
- Machine for twisting wires with material therebetween. A. Van Veen. 1,711,461; Apr. 30.
- Machine for uniting knitted webs. L. N. D. Williams. 1,715,400; June 4.
- Machine for uniting veneer plates. A. Sziborr. 1,720,803; July 16.
- Machine for upsetting and like operations. K. Auerbach. 1,739,276; Dec. 10.
- Machine for use in making boxes. O. C. Thompson. 1,738,806; Dec. 10.
- Machine for use in making wood heels. N. L. Gulliford. 1,719,804; July 2.
- Machine for use in manufacturing shoes. E. A. Osiek. 1,702,362; Feb. 19.
- Machine for use in the manufacture of bottle caps. P. W. Dalrymple. 1,721,659; July 23.
- Machine for use in the manufacture of double-walled vacuum bottles. M. P. Wetmore. 1,732,783; Oct. 22.
- Machine for use in the manufacture of shoes. W. C. Baxter. 1,700,970; Feb. 5.
- Machine for use in the manufacture of shoes. W. C. Baxter. 1,706,474; Mar. 26.
- Machine for use in the manufacture of shoes. W. C. Baxter. 1,709,833; Apr. 23.
- Machine for use in the manufacture of shoes. J. Gould-bourn and F. Ricks. 1,710,161; Apr. 23.
- Machine for use in the manufacture of textile fabrics. C. G. Bauer. 1,697,410; Jan. 1.
- Machine for use in the manufacture of tires. A. O. Abbott, jr. 1,703,919; Mar. 5.
- Machine for use in trimming shrubbery. F. K. Rader. 1,715,675; June 4.
- Machine for vending boxes of matches. W. E. Williams. 1,710,395; Apr. 23.
- Machine for washing dishes and other articles. G. Webb. 1,719,409-10; July 2.
- Machine for washing fruit, etc. J. J. Byberg. 1,705,959; Mar. 19.
- Machine for welding wheel to rims. J. W. Meadowcroft. 1,703,588; Feb. 26.
- Machine for winding threads, twine, cords, or the like. L. H. Lawson. 1,716,784; June 11.
- Machine for winding tube-frame spools. C. H. Collins. 1,729,710; Oct. 1.
- Machine for working metal strands. E. Gauthier. 1,706,729; Mar. 26.
- Machine for wrapping canisters with lid-sealing tape, wrapping material, and the like. W. H. Wall. 1,700,005; Jan. 22.
- Machine for wrapping caramels and like articles. A. G. Rose. 1,738,079; Dec. 3.
- Machine for wrapping caramels and the like. A. G. Rose. 1,735,978; Nov. 19.
- Machine for writing a plurality of signatures. D. W. Hem-ming. 1,708,671; Apr. 9.



- Machine forming articles from sheet material. B. M. Fine. 1,737,789; Dec. 3.
- Machine-gun carriage. A. L. Ricordel. 1,722,862; July 30.
- Machine, Hydraulic. H. J. Muth. 1,728,906; Sept. 17.
- Machine installation, Milking-. J. L. Hulbert. 1,718,822; June 25.
- Machine, Mortising. W. E. Ranney. 1,698,068-9; Jan. 8.
- Machine of the semiautomatic type for casting under pressure. E. Brumm. 1,729,536; Sept. 24.
- Machine or apparatus for use in supporting animals while being slaughtered. H. Weinberg. 1,701,902; Feb. 12.
- Machine, particularly in centrifugal pump, Rotary. F. Lawaczek. 1,704,481; Mar. 5.
- Machine, Quack-grass. E. M. Filber. 1,698,540; Jan. 8.
- Machine reel, Stereoscopic-exhibiting-. P. C. Smith. 1,704,022; Mar. 5.
- Machine, Rotary. I. H. Wilsey. 1,732,871; Oct. 22.
- Machine shafts, particularly of papermaking machines, Maintaining a given speed of driven. W. Vogel. 1,707,376; Apr. 2.
- Machine sieve of wire gauze particularly for paper machines, Rotary. A. Elsenhans. 1,707,757; Apr. 2.
- Machine, Sorting. J. Last. 1,736,540; Nov. 19.
- Machine-tool attachment. J. B. Armitage. 1,720,712; July 16.
- Machine-tool feed. A. M. Johnson. 1,732,559; Oct. 22.
- Machine-tool organization. J. B. Armitage. 1,710,913; Apr. 30.
- Machine-tool organization. E. J. Kearney and J. B. Armitage. 1,720,734; July 16.
- Machine-tool table. J. B. Armitage. 1,702,374; Feb. 19.
- Machine, Upper-shaping. R. E. Duplessis. 1,706,277; Mar. 19.
- Machine used in silvering double-walled vacuum bottles. M. P. Wetmore. 1,725,035; Aug. 20.
- Machine with supply to the rotor, Compensated asynchronous. W. Sarfert. 1,724,730; Aug. 13.
- Machinery, Agricultural. A. E. M. Raulais. 1,702,018; Feb. 12.
- Machinery, Cigarette. W. E. Molins. 1,731,723; Oct. 15.
- Machinery, Cigarette-making. W. E. Molins. 1,705,224; Mar. 12.
- Machinery, Cigarette-making. F. F. Ruau. 1,713,196; May 14.
- Machinery for softening or breaking fibrous materials. A. Kampf. 1,728,682; Sept. 17.
- Machinery for textile fibers, Opening. J. Jolly. 1,718,152; June 18.
- Machinery for the manufacture of fiber boards. W. B. Hoggatt. 1,713,033; May 14.
- Machinery, Glass-working. R. D. Mailey and W. J. Winninghoff. 1,701,753; Feb. 12.
- Machinery, Material loading and handling. J. C. Sell. 1,703,600; Feb. 26.
- Machinery to be employed in the doubling or folding of metallic plates or sheets. H. S. Thomas and W. R. Davies. 1,718,392; June 25.
- Machinery, Woodworking. R. E. De Walt. 1,701,912; Feb. 12.
- Machines and the like, Thermostatic-control for ice. W. G. Hartwig. 1,729,720; Oct. 1.
- Machines, Blower set for combustion. F. Porsche. 1,739,859; Dec. 17.
- Machines by shunt commutator motors connected in cascade, Apparatus for the compensation of asynchronous. L. Hartwagner. 1,723,732; Aug. 6.
- Machines for coating material, Attachment for. W. H. Berssenbrugge. 1,727,929; Sept. 10.
- Machines for making filler flaps for packing cases. G. W. Swift, jr. 1,719,947; July 9.
- Machines for wheat and other grain, Scrubbing, brushing, cleaning, and the like. A. Frérotte. 1,712,299; May 7.
- Machines, Stop and counting means for automatic. H. C. Wiles. 1,732,706; Oct. 22.
- Machining compression recesses in cylinder heads. C. F. Jeffries. 1,734,908; Nov. 5.
- Magazine and book rack. J. C. Roushar, S. M. Koutnik, and M. M. Blackburn. 1,725,422; Aug. 20.
- Magazine and newspaper rack. J. E. Whyte and D. McAulay. 1,715,078; May 28.
- Magazine change box for daylight-loading plate packs. O. Becker. 1,719,961; July 9.
- Magazine-feed mechanism for machine guns. C. Pfeiffer and F. T. Moore. 1,719,126-7; July 2.
- Magazine-feed mechanism for machine guns. G. H. Tansley. 1,719,147; July 2.
- Magazine rack, Printer's. F. M. and W. A. Joernadt. 1,725,143; Aug. 20.
- Magazine terminal. L. E. Van Steensburg. 1,729,635; Oct. 1.
- Magic box. W. R. Groger. 1,728,606; Sept. 17.
- Magnesium arsenate, Making. S. B. Heath. 1,737,114; Nov. 26.
- Magnesium perchlorate. G. F. Smith. 1,738,930; Dec. 10.
- Magnesium-sulphate solutions, Purifying. S. B. Heath. 1,727,597; Sept. 10.
- Magnet. P. L. Jensen. 1,721,023; July 16.
- Magnet. E. E. Sanders. 1,711,657; May 7.
- Magnet and primary valve, Combination. A. A. Klann. 1,699,363; Jan. 15.
- Magnet and valve, Combined. A. A. Klann. 1,703,771; Feb. 26.
- Magnet for turbogenerators, Rotating field. O. T. Bláthy. 1,703,810; Feb. 26.
- Magnet for turbogenerators, Rotating field. O. T. Bláthy. 1,704,589; Mar. 5.
- Magnet, Lifting. P. J. McCullough. 1,727,553; Sept. 10.
- Magnet, Meter-damping. W. Beetz. 1,734,193; Nov. 5.
- Magnetic apparatus and making same, Material for. L. H. Roller. 1,697,142; Jan. 1.
- Magnetic balance. A. Stock. 1,707,822; Apr. 2.
- Magnetic bobbin. H. H. Hermine. 1,742,018; Dec. 31.
- Magnetic chuck, Multiple. H. E. Tracy. 1,704,448; Mar. 5.
- Magnetic core. G. W. Elmen. 1,715,543; June 4.
- Magnetic core. J. J. Frank. 1,717,199; June 11.
- Magnetic core. R. A. McCarty. 1,702,448; Feb. 19.
- Magnetic core. H. F. McRell. 1,731,861; Oct. 15.
- Magnetic core and method of manufacture. W. Ehlers, and F. Falkenberg. 1,721,379; July 16.
- Magnetic cores, Manufacture of. F. J. Given. 1,733,592; Oct. 29.
- Magnetic coupling, Eliminating. L. A. Hazeltine. 1,698,364; Jan. 8.
- Magnetic device. E. L. Norton. 1,733,554; Oct. 29.
- Magnetic keeper cradle. G. S. White. 1,738,859; Dec. 10.
- Magnetic lift. W. Werner. 1,699,866; Jan. 22.
- Magnetic material. P. P. Cioffi. 1,708,936; Apr. 16.
- Magnetic material. G. W. Elmen. 1,715,541; June 4.
- Magnetic material. G. W. Elmen. 1,715,647-8; June 4.
- Magnetic material and appliance. G. W. Elmen. 1,715,646; June 4.
- Magnetic material and appliance. G. W. Elmen. 1,739,752; Dec. 17.
- Magnetic material, Temperature-responsive. I. F. Kinnard. 1,706,172; Mar. 19.
- Magnetic materials, Producing. J. W. Andrews. 1,703,287; Feb. 26.
- Magnetic meter. E. H. Ford. 1,724,873; Aug. 13.
- Magnetic motor. H. L. Worthington. 1,724,446; Aug. 13.
- Magnetic probe for surgical purposes. R. C. Hartsough. 1,726,349; Aug. 27.
- Magnetic reciprocating device. W. Werner. 1,715,484; June 4.
- Magnetic separator. A. F. Jobke. 1,714,171; May 21.
- Magnetic separator. J. Johnston. 1,727,543; Sept. 10.
- Magnetic separator, Automatic. A. Burns. 1,698,121; Jan. 8.
- Magnetic separator for cane-crushing machinery. L. J. Struebig. 1,738,739; Dec. 10.
- Magnetic switch. C. H. Rippl. 1,730,688; Oct. 8.
- Magnetic switch. O. Thompson. 1,722,642; July 30.
- Magnetically-operated device. H. D. James. 1,719,115; July 2.
- Magnetism in electrical apparatus, Reducing the effects of residual. H. L. Tanner. 1,727,949; Sept. 10.
- Magnetizable element and treating same. C. H. Seymour. 1,719,564; July 2.
- Magneto. F. I. Gibson. 1,703,420; Feb. 26.
- Magneto. I. E. Hendrickson. 1,700,677; Jan. 29.
- Magneto. I. E. Hendrickson. 1,736,441; Nov. 19.
- Magneto. B. P. Remy. 1,724,618; Aug. 13.
- Magneto. W. S. Robinson, jr. 1,734,918; Nov. 5.
- Magneto. A. Schrell. 1,734,350; Nov. 5.
- Magneto coupling. G. Neveu. 1,738,962; Dec. 10.
- Magneto-electric generator. E. B. Nowosielski. 1,718,973; July 2.
- Magneto generator. P. H. Ruppe. 1,697,370; Jan. 1.
- Magneto ignition machine. A. G. L. Neighbour. 1,709,996; Apr. 23.
- Magneto-mechanical driving system. E. J. Murphy. 1,699,115; Jan. 15.
- Magneto, Oscillating. R. A. Oglesby. 1,711,323; Apr. 30.
- Magneto-oscillating mechanism. B. P. Remy. 1,721,669; July 23.
- Magneto, Oscillator. W. W. Hawkins. 1,702,082; Feb. 12.
- Magneto-starter pawl-tripping device. L. J. M. Peterson. 1,701,119; Feb. 5.
- Magnetos, Rotor for. C. F. Reis. 1,726,042; Aug. 27.
- Magnifying and illuminating device. C. T. Brady. 1,717,754-5; June 18.
- Magnifying and illuminating device. C. T. Brady. 1,735,949; Nov. 19.
- Magnifying apparatus. H. N. Rose. 1,702,317; Feb. 19.
- Mail, Apparatus for handling. G. F. Myers. 1,724,507; Aug. 13.
- Mailable matter of envelopes. S. Benenato. 1,710,603; Apr. 23.
- Mail-bag catching and delivering apparatus. R. Munnerley. 1,740,109; Dec. 17.
- Mail bags and other loads from aircraft, Apparatus for lowering. H. E. S. Holt. 1,709,264; Apr. 16.
- Mail box. A. E. Blackman. 1,709,560; Apr. 16.
- Mail box. H. J. Bledsoe. Des. 77,523; Jan. 22.
- Mail box. A. A. Content. 1,735,379; Nov. 12.
- Mail box. T. M. Cooper. Des. 77,464; Jan. 15.
- Mail box. R. Ferebee. 1,708,383; Apr. 9.
- Mail box. J. H. Konefes. 1,713,702; May 21.
- Mail box. F. W. Mathis. 1,718,471; June 25.
- Mail box. E. I. Fendergrass. 1,731,682; Oct. 15.
- Mail box. G. H. Reimer. Des. 79,099; July 30.
- Mail box. J. H. Ward, jr. 1,736,895; Nov. 26.
- Mail box, Adjustable. N. Cohan. 1,707,049; Mar. 26.
- Mail-box-flag control. C. W. Bond. 1,742,128; Dec. 31.
- Mail-box hanger. T. J. Arledge. 1,725,693; Aug. 20.
- Mail box or receptacle. T. F. Murphy. 1,709,363; Apr. 16.
- Mail box, Rural. W. H. Blaser. 1,714,543; May 28.
- Mail box, Rural. J. P. Short. 1,708,109; Apr. 9.



- Mail boxes, Coin holder for. G. E. Gates. 1,712,662; May 14.
- Mail catcher, Aerial. R. Fisher. 1,735,385; Nov. 12.
- Mail-distributing case. E. M. Shreeve. 1,726,632; Sept. 3.
- Mail-handling machine. L. J. Zahn and M. Schroeder. 1,732,426; Oct. 22.
- Mail handling or transfer apparatus. F. R. Curtin. 1,721,987; July 23.
- Mail-marking apparatus. L. J. Zahn and M. Schroeder. 1,732,425; Oct. 22.
- Mailing bag. J. E. Sorg. 1,706,330; Mar. 19.
- Mailing box. J. C. Newlin. 1,713,547; May 21.
- Mailing machine. J. E. Johnson. 1,709,077; Apr. 16.
- Mailing machine. J. W. Ogden, C. C. Lund, and W. H. Wheeler, jr. 1,737,670; Dec. 3.
- Mailing piece. M. B. Kovnat. 1,725,007; Aug. 20.
- Mailing wrapper for photographs. H. L. Greve. 1,710,637; Apr. 23.
- Make-and-break device. E. C. Fichtner and J. H. Simon. 1,716,119; June 4.
- Make and break switch, Thermostatic. A. O. Appelberg. 1,741,601; Dec. 31.
- Make-ready device. A. Stoller. 1,714,895; May 28.
- Making silo staves, Machine for. W. W. Gurney and C. C. Woody. 1,721,017; July 16.
- Making up or ticketing of piece goods. J. E. Tod. 1,724,862; Aug. 13.
- Mallet. F. W. Nightingale. 1,707,534; Apr. 2.
- Malt and maltose preparation. A. E. Nienstadt. 1,709,366; Apr. 16.
- Maltose process and product. F. C. Weber and W. H. Randall. 1,722,775; July 30.
- Mandrel. T. D. Craig. 1,705,440; Mar. 12.
- Mandrel. M. A. Marquette. 1,726,848; Sept. 3.
- Mandrel changing and cooling machine. A. G. McHugh. 1,714,131; May 21.
- Mandrel, Collapsible draw. J. Grossweischede and G. Reichenbecher. 1,713,962; May 21.
- Mandrel-conveying means. W. C. Bleher, F. E. Willis, and R. A. Wentworth. 1,711,557; May 7.
- Mandrel, Expanding. A. J. Olsen. 1,719,720; July 2.
- Mandrel for tube-cutting machines. E. M. Hawkins. 1,711,942; May 7.
- Mandrel for use in machines for making artificial straws and other tubes. C. Casey. 1,738,035; Dec. 3.
- Mandrel, Gripping. W. M. Rodger. 1,736,463; Nov. 19.
- Mandrel, Steam-heated tube-splicing. E. Blaker. 1,707,794; Apr. 2.
- Manganese, Smelting. A. G. Betts. 1,703,657; Feb. 26.
- Mangle. E. R. Cooper and A. G. Larson. 1,709,429; Apr. 16.
- Manhole drier and ventilator. R. M. Searle. 1,700,142; Jan. 29.
- Manhole, valve box, and the like. L. Gschwind. 1,712,267; May 7.
- Manicure applicator. L. Halk. 1,715,914; June 4.
- Manicure device, Power. G. Lidseen. 1,719,063; July 2.
- Manicuring appliance. P. S. Newbound. 1,709,591; Apr. 16.
- Manicuring device. A. E. R. Blomquist. 1,713,592; May 21.
- Manicuring device. I. M. Eldridge. 1,700,475; Jan. 29.
- Manicuring device. J. J. Riggsbee. 1,700,076; Jan. 22.
- Manicuring instrument. F. J. Wachowski. 1,730,868; Oct. 8.
- Manicuring machine, Mechanical. G. Lidseen. 1,719,064; July 2.
- Manifold. J. L. Devon. 1,730,453; Oct. 8.
- Manifold. A. F. J. Voigt and K. W. Linde. 1,703,374; Feb. 26.
- Manifolding check. R. P. Templeton. 1,738,676; Dec. 10.
- Manifold, Cold-distribution. H. W. Asire. 1,727,045; Sept. 3.
- Manifold exhaust. G. M. Bellanca. 1,713,814; May 21.
- Manifold, Exhaust-heated intake. E. W. Seaholm. 1,713,486; May 14.
- Manifold for internal-combustion engines. W. G. Heginbottom and J. R. Francis. 1,724,481; Aug. 13.
- Manifold for internal-combustion engines. G. McDowell. 1,720,683; July 16.
- Manifold for internal-combustion engines. N. S. Reed and H. G. Sanger. 1,722,443; July 30.
- Manifold for internal-combustion engines. D. I. Selfridge. 1,723,954; Aug. 6.
- Manifold for hot-air and vapor cabinets, Distributing. H. R. Harter. 1,699,356; Jan. 15.
- Manifold heater, Intake. E. S. Markovetz. 1,706,242; Mar. 19.
- Manifold, Intake. A. Taub. 1,705,036; Mar. 12.
- Manifold lock, Gas-range. J. Erskine. 1,718,640; June 25.
- Manifold, Vaporizing. H. B. Petit. 1,706,860; Mar. 26.
- Manifolding apparatus. W. T. Bailey. 1,713,112; May 14.
- Manifolding apparatus. A. Oser. 1,728,133; Sept. 10.
- Manifolding attachment for typewriters. G. M. Sacerdote. 1,704,020; Mar. 5.
- Manifolding container device. J. D. Walsh and L. C. Antrim. 1,696,990; Jan. 1.
- Manifolding device. A. A. Johnson. 1,736,535; Nov. 19.
- Manifolding device. W. E. Oliver. 1,730,524-5; Oct. 8.
- Manifolding device, Cash-drawer. J. Q. Sherman and A. W. Metzner. 1,716,566; June 11.
- Manifolding machine. W. G. Borchers. 1,718,680; June 25.
- Manifolding machine. E. K. Bottle. 1,733,329; Oct. 29.
- Manifolding machine. A. W. Metzner. 1,737,509; Nov. 26.
- Manifolding machine. J. Q. Sherman. 1,701,426; Feb. 5.
- Manifolding machine. J. Q. Sherman. 1,719,946; July 9.
- Manifolding machine. J. Q. Sherman and A. W. Metzner. 1,710,034; Apr. 23.
- Manifolding machine, Rotary. O. L. Zeuthen. 1,718,886; June 25.
- Manifolding pad. W. Greig. 1,724,080; Aug. 13.
- Manifolding register. H. W. Carroll, jr. 1,732,634; Oct. 22.
- Manifolding register. J. Q. Sherman and A. W. Metzner. 1,741,442; Dec. 31.
- Manifolding register, Autographic. R. W. Glenn. 1,741,362; Dec. 31.
- Manifolds, Hot spot for. D. C. Sowell. 1,730,540; Oct. 8.
- Manifolds, Making engine. S. L. Carpenter. 1,699,279; Jan. 15.
- Mannequin or similar article, Head for. A. Vigneau. Des. 79,052; July 23.
- Manometer. H. Martin. 1,719,067; July 2.
- Mantle-renewal means for gas-illuminated signal apparatus, Automatic. J. H. F. Spiegelberg. 1,713,986; May 21.
- Manure spreader. L. B. Neighbour. 1,697,285; Jan. 1.
- Manure spreader. A. L. Stanford. 1,720,801; July 16.
- Manure spreader. A. Storm. 1,724,379; Aug. 13.
- Manure spreader. H. Synck. 1,698,896-7; Jan. 15.
- Manure spreader. P. R. Tucker. 1,729,369; Sept. 24.
- Map, Guide. F. B. Bain. 1,706,342; Mar. 19.
- Map, Mechanically-operated road. A. C. Berglund. 1,711,917; May 7.
- Map of the world, Elastic globe. A. Landini. 1,740,927; Dec. 24.
- Map pointer for road vehicles, Semiautomatic. P. Borel. 1,741,676; Dec. 31.
- Map, Road. W. C. Eubank. 1,697,350; Jan. 1.
- Maps, Three-plate method of and apparatus for producing. L. T. Eliel. 1,699,136; Jan. 15.
- Marceller, Hair. H. Bachleda. 1,738,754; Dec. 10.
- Margarine and making same. A. K. Epstein. 1,707,800; Apr. 2.
- Margin plate lockup, Center. H. C. Jordhoy. 1,726,836; Sept. 3.
- Marine elevator. H. Barlow. 1,698,209; Jan. 8.
- Marine elevator. H. Barlow. 1,716,680; June 11.
- Marine engine. M. G. Barker. 1,697,101; Jan. 1.
- Marine motor. T. L. Smith. 1,737,523; Nov. 26.
- Marine motor, Outboard. J. V. Rice, jr. 1,733,361; Oct. 29.
- Marine propulsion, High-pressure-hydraulic. F. Mauquoi. 1,738,013; Dec. 3.
- Marine propulsion, Hydraulic. F. Mauquoi. 1,721,827; July 23.
- Marine propulsion, Reversing device for. T. T. Tuttle. 1,697,096; Jan. 1.
- Marine vessel, Engine-driven. K. F. J. Kirsten. 1,740,820; Dec. 24.
- Maritime ram with barometric chamber. P. Grasset. 1,742,068; Dec. 31.
- Marker. S. T. Corbitt. 1,706,957; Mar. 26.
- Marker. A. Lerner. 1,723,046; Aug. 6.
- Marker, Artificial-stone. J. W. Keiser. 1,730,463; Oct. 8.
- Marker device. G. C. Hemenway. 1,730,007; Oct. 1.
- Marker for golf balls and the like, Location. A. C. Davidson. 1,735,736; Nov. 12.
- Marker for golf balls, Position. M. A. Davis. 1,716,261; June 4.
- Marker for land surveys, Corner. G. A. Cromie. 1,712,028; May 7.
- Marker for pavements, Traffic. E. S. Cornell, jr. 1,702,496; Feb. 19.
- Marker for printing presses, Signature. F. J. Cannon. 1,696,999; Jan. 1.
- Marker for street traffic, Zoning. A. F. Hoff. 1,698,594; Jan. 8.
- Marker for tennis courts and the like, Line. J. McGain. 1,700,639; Jan. 29.
- Marker, Golf-ball. J. E. McGinness. 1,701,981; Feb. 12.
- Marker, Golf-ball. J. E. McGinness. 1,721,965; July 23.
- Marker, Grave. M. A. Beeson. Des. 78,003; Mar. 19.
- Marker, Grave. N. Pangburn. Des. 79,161; Aug. 6.
- Marker, Highway. L. F. Lindley. 1,733,161; Oct. 29.
- Marker, Land. L. W. Chase. 1,738,231; Dec. 3.
- Marker, Line. E. H. Hollingshead. 1,726,832; Sept. 3.
- Marker, Road. W. F. Bell. 1,702,585; Feb. 19.
- Marker, Road. C. J. Dickgiesser. 1,703,227; Feb. 26.
- Marker, Road. G. N. Herman and A. W. T. Mohr. 1,728,275; Sept. 17.
- Marker, Road. R. C. Thomasson. 1,725,889; Aug. 27.
- Marker, Rope. R. S. O. Lawson. 1,721,564; July 23.
- Marker, Rope. J. B. Reber. 1,738,316; Dec. 3.
- Marker, Stock and poultry. J. S. Naylor. 1,699,012; Jan. 15.
- Marker, Street. L. F. N. Baldwin. 1,709,455; Apr. 16.
- Marker, Traffic. C. M. C. Baird. 1,698,150; Jan. 8.
- Marker, Traffic. R. J. McKee and W. F. Scheffier. 1,736,830; Nov. 26.
- Marker, Traffic. R. Nater and W. Brice. 1,708,369; Apr. 9.
- Marker, Traffic-guide-line. H. Henry. 1,720,273; July 9.
- Marker, Window-shade. 1,715,419; June 4.
- Marking and assembling system, Laundry. H. Hirsch. 1,721,076; July 16.
- Marking and cementing machine. R. V. Woodworth. 1,713,246; May 14.



- Marking and simultaneously stamping a number on goods ready for dispatch, Apparatus for currently. F. Moeschlin. 1,701,583; Feb. 12.
- Marking composition. W. S. Lawrence. 1,718,966; July 2.
- Marking device. F. R. Haselton. 1,719,838; July 9.
- Marking device. A. C. Jenkins. 1,732,017; Oct. 15.
- Marking device, Automatic tape-. R. Schramm. 1,714,143; May 21.
- Marking device, Electric. R. H. Bresson and E. V. Knoblock. 1,710,340; Apr. 23.
- Marking device for recording apparatus. D. R. Lovejoy. 1,720,226; July 9.
- Marking garments for laundry and like purposes, Apparatus for. A. L. and C. E. Jenner. 1,715,556; June 4.
- Marking glass articles, Apparatus for. D. K. Wright. 1,701,348; Feb. 5.
- Marking machine. B. B. Brodfuehrer. 1,700,820; Feb. 5.
- Marking machine. P. R. Glass. 1,713,528; May 21.
- Marking machine. P. R. Glass. 1,716,629; June 11.
- Marking machine. P. R. Glass. 1,734,123; Nov. 5.
- Marking machine. L. C. Hauer. 1,724,085; Aug. 13.
- Marking machine, Mail-. A. Iefield. 1,703,148; Feb. 26.
- Marking materials. H. B. Mowry. 1,710,487; Apr. 23.
- Marking means for electric conduits. H. Bekelmann and H. Gastrow. 1,703,609; Feb. 26.
- Marking, printing, and embossing devices. M. A. G. Luedtke and H. Hoffmann. 1,714,794; May 28.
- Marking, printing, and embossing device. M. A. G. Luedtke and H. Hoffmann. 1,726,575; Sept. 3.
- Marking rubber and rubberized material, Apparatus for. C. H. Desautels. 1,737,111; Nov. 26.
- Marking sheet material, Apparatus for. A. Williams, jr. 1,699,337; Jan. 15.
- Marking tag, Laundry-. J. E. McCarthy. 1,732,024; Oct. 15.
- Marking ticket. G. A. Wallin and S. Buckley, jr. 1,720,809; July 16.
- Marquetry, parquetry, inlays, etc., Making imitation. J. A. O'Neill. 1,703,746; Feb. 26.
- Masher and strainer, Fruit. F. Giboney. 1,720,340; July 16.
- Mask. T. Grimes. 1,703,034; Feb. 19.
- Mask and making same, Metallic face. G. Benjamin. 1,715,027; May 28.
- Mask for use in noxious gases, Protective. A. B. Dräger. 1,710,813; Apr. 30.
- Mask, Gas. A. B. Dräger. 1,725,063; Aug. 20.
- Mask, Gas. L. M. McBride. 1,730,227; Oct. 1.
- Mask, Gas protective. A. B. Dräger. 1,702,400; Feb. 19.
- Masks for cameras, Adjustable. F. Coan. 1,715,593; June 4.
- Massage apparatus. L. M. Baginski. 1,724,893; Aug. 20.
- Massage apparatus. A. A. Hendrickson. 1,700,633; Jan. 29.
- Massage apparatus. J. Kazmazýk. 1,724,842; Aug. 13.
- Massage apparatus. T. Saxer. 1,728,368; Sept. 17.
- Massage apparatus. S. Stéphani. 1,725,488; Aug. 20.
- Massage apparatus, Mechanically-driven. F. O. Conill. 1,723,268; Aug. 6.
- Massage applicator. D. M. Ackerman. 1,704,960; Mar. 12.
- Massage device. M. W. Jordan. 1,731,900; Oct. 15.
- Massage device. E. H. Pasqué. 1,707,366; Apr. 2.
- Massage element. R. H. Hassler. 1,726,560; Sept. 3.
- Massage implement. F. F. Shaweker. 1,741,795; Dec. 31.
- Massage machine. R. H. Hassler. 1,709,170; Apr. 16.
- Massage machine. R. H. Hassler. 1,710,643; Apr. 23.
- Massage machine, Steam. G. Medart. 1,705,776; Mar. 19.
- Massage outfit. E. Haslett. 1,714,557; May 28.
- Massager and exerciser. W. Bechmann. 1,702,991; Feb. 19.
- Massaging and stimulating implement. H. Krauter. 1,725,829-30; Aug. 20.
- Massaging device. M. E. Giacomazzi. 1,710,051; Apr. 23.
- Massaging device. R. H. Hassler. 1,711,889; May 7.
- Massaging device. R. H. Hassler. 1,712,764; May 14.
- Massaging device, Manually-operable head-. R. H. Hassler. 1,713,756; May 21.
- Massaging device, Water-operated. D. Marosy. 1,716,143; June 4.
- Massaging instrument. M. Burnier. 1,722,893; July 30.
- Massaging machine. R. H. Hassler. 1,710,822; Apr. 30.
- Mast and controls therefor, Airship mooring. J. J. Crain. 1,712,104; May 7.
- Mast for lighter-than-air aircraft, Mooring. C. D. Burney. 1,699,606; Jan. 22.
- Master control. C. J. Victoreen. 1,735,363; Nov. 12.
- Master heading hook, Draw-over. D. M. Sarkisian. 1,735,016; Nov. 12.
- Master trap. C. V. Fuqua. 1,705,009; Mar. 12.
- Mat-See-
- Slide mat.
- Mat. C. Baskerville, jr. Des. 79,321-2; Sept. 3.
- Mat. C. H. Oakley. Des. 79,159; Aug. 6.
- Mat. E. E. Richardson. 1,728,306; Sept. 17.
- Mat chair. W. E. White. 1,735,592; Nov. 12.
- Mat for automobiles, Floor. C. C. Berg. 1,736,572; Nov. 19.
- Mat for bathtubs, Safety. A. Hasalone. 1,702,635; Feb. 19.
- Mat for hot plates, Luncheon. M. Tannenholz. Des. 80,194; Dec. 24.
- Mats for use in making printing plates, Preparing. E. E. Martin. 1,726,747; Sept. 3.
- Match book. S. E. Rahe. 1,728,509; Sept. 17.
- Match, Book. W. B. Williams. 1,721,652; July 23.
- Match box. E. Bouchard. 1,739,822; Dec. 17.
- Match box. E. B. Hough. 1,703,671; Feb. 26.
- Match box. E. B. Hough. 1,724,712; Aug. 13.
- Match box. G. Urr. 1,702,183; Feb. 12.
- Match box and stamp holder, Combined. A. E. Speiser. 1,730,191; Oct. 8.
- Match machine, Book-. L. Greenbaum, E. Van Hoofstadt, and C. Gustavson. 1,708,540; Apr. 9.
- Match-making machine. C. N. Neklutin. 1,739,516; Dec. 17.
- Match-making machine, Paper-. J. J. Ferretti. Re17,524; Dec. 17.
- Match package, Advertising. P. Kohloff. 1,707,526; Apr. 2.
- Match package, Multiple-card. A. Ovtshinnikoff. 1,740,476; Dec. 24.
- Match plate as well as method of and means for manufacturing the same. F. Käppler. 1,726,900; Sept. 3.
- Match striker. R. C. Gibbs. 1,720,831; July 16.
- Matcher. A. R. McArthur. 1,739,556; Dec. 17.
- Matches from sheet stock, Making. S. E. Rahe. 1,728,508; Sept. 17.
- Matching and doubling machine, Automatic. E. Koch. 1,724,715; Aug. 13.
- Material and making the same, Thin matched. C. D. Jones. 1,720,841; July 16.
- Material, Apparatus for handling loose. C. E. Davis. 1,742,026; Dec. 31.
- Material, Apparatus for handling loose. T. E. Pray. 1,742,009; Dec. 31.
- Material batcher. P. C. Graham. 1,709,211; Apr. 16.
- Material drier. M. Madsen. 1,715,852; June 4.
- Material-feeding apparatus. C. O. Knuuti and C. E. Nelson. 1,717,787; June 18.
- Material-feeding means, Proportional-. H. L. Merrick. 1,727,353; Sept. 10.
- Material for use in making gears and similar objects. W. H. Adams. 1,708,166; Apr. 9.
- Material-handling apparatus. W. P. Alexander. 1,720,388; July 9.
- Material-handling apparatus. W. H. Hill. 1,698,680; Jan. 8.
- Material-handling apparatus. D. R. Knapp. 1,739,598; Dec. 17.
- Material-handling apparatus. A. Marchev. 1,717,793; June 18.
- Material-handling apparatus. H. B. Walker. 1,735,365; Nov. 12.
- Material-handling machine. G. R. Whitnall. 1,710,129; Apr. 23.
- Material-handling mechanism. M. E. First. 1,701,750; Feb. 12.
- Material-handling station. E. E. Barrett. 1,723,003; Aug. 6.
- Material-handling system. R. H. Beaumont. 1,703,071; Feb. 19.
- Material-moving apparatus. J. B. Schaub. 1,738,211; Dec. 3.
- Material, Treating continuously-moving. C. R. Weihe. 1,742,110; Dec. 31.
- Material-working apparatus. H. Blount. 1,739,282; Dec. 10.
- Material-working machine. H. E. Lambert. 1,697,873; Jan. 8.
- Materials and applications thereof, Method and apparatus for preparing. E. Brandus. 1,705,057; Mar. 12.
- Materials, Apparatus for stretching and drying weblike. L. Buck. 1,717,004; June 11.
- Materials containing cellulose, Opening-up. H. Heimann, H. Seefried, I. Petersen, and A. Bayerl. 1,736,080; Nov. 19.
- Materials containing tungsten, Making. H. G. Batcheller and J. D. Kelley. 1,709,817; Apr. 16.
- Materials of different specific gravities, Method and apparatus for separating. H. M. Chance. 1,730,123; Oct. 1.
- Materials, Washing or cleaning textile. E. C. Duhamel. 1,717,439; June 18.
- Materials with binders in the briquetting of said materials, Treatment of. R. Lessing. 1,741,193; Dec. 31.
- Maternity pad. L. L. Gilbert. 1,741,838; Dec. 31.
- Matrix. H. R. Freund. 1,718,921; June 25.
- Matrix board. H. J. Blake. 1,699,579; Jan. 22.
- Matrix-composing stick. H. R. Freund. 1,740,435; Dec. 17.
- Matrix-forming machinery. E. J. Smith. 1,715,013; May 28.
- Matrix-setting and line-casting machine. W. Blume. 1,706,767; Mar. 26.
- Mattress. J. E. Dryer and S. C. Karzen. 1,708,125; Apr. 9.
- Mattress. C. Z. Edelson, J. Goldeen, and M. D. Tarlow. Re17,286; Apr. 30.
- Mattress. E. F. Hager. 1,725,187; Aug. 20.
- Mattress. J. H. Jonas. 1,730,771; Oct. 8.
- Mattress. H. Kraft. 1,703,537; Feb. 26.
- Mattress. V. D. Mulkey. 1,709,995; Apr. 23.
- Mattress. S. Q. Rollins. 1,703,175; Feb. 26.
- Mattress. P. Tufenkjian. 1,733,034; Oct. 22.
- Mattress and cushion. L. A. Suekoff. 1,700,339; Jan. 29.
- Mattress and like structure, Spring. J. F. Gail. 1,717,378; June 18.
- Mattress and like structure, Spring. D. C. Travis. 1,699,822; Jan. 22.
- Mattress, Box-spring. S. L. Rubin. 1,741,038; Dec. 24.
- Mattress, Composite. W. A. Withers. 1,730,752; Oct. 8.



- Mattress envelope. A. L. Opsahl. 1,699,910; Jan. 22.  
 Mattress envelope, Baby-. B. M. Handl. 1,726,224; Aug. 27.  
 Mattress-filler device. T. Coghlan and W. Loisel. 1,722,734; July 30.  
 Mattress for baby carriages and cribs. F. Eiser. 1,736,341; Nov. 19.  
 Mattress or cushion. W. F. Roeske. 1,725,935; Aug. 27.  
 Mattress protector. H. L. Kaufmann. 1,700,535; Jan. 29.  
 Mattress protector. H. L. Kaufmann. 1,722,429; July 30.  
 Mattress protector. L. J. Pingry. 1,710,591; Apr. 23.  
 Mattress-roll forming and stitching machine. J. W. Droll. 1,718,639; June 25.  
 Mattress shield. H. A. Copeland. 1,697,633; Jan. 1.  
 Mattress, Spring. W. Lewis. 1,727,654; Sept. 10.  
 Mattress, Spring. C. K. Rasmussen. 1,739,985; Dec. 17.  
 Mattress structure, Spring-. E. W. Bingle. 1,709,303; Apr. 16.  
 Mattress, Tufted. L. E. Pittoni. 1,741,790; Dec. 31.  
 Mattress units, Interchangeable and adjustable. A. Vitez-Keresztalvy. 1,716,176; June 4.  
 Mattress with adjustable back rest and leg support. O. Holtkamp. 1,703,237; Feb. 26.  
 Mattresses and the like, Making of. J. L. Scobey. 1,715,573; June 4.  
 Mattresses, Apparatus for making. H. M. Herbener. 1,725,800; Aug. 27.  
 Mattresses, Method and apparatus for making. H. M. Herbener. 1,710,979; Apr. 30.  
 Mattresses, Method of and apparatus for producing. H. M. Herbener. 1,710,978; Apr. 30.  
 Maul. W. S. Farrar. 1,723,477; Aug. 6.  
 Meal for use in connection with sausage meat, meat and fish paste, and the like, Manufacture of. A. O. Morris. 1,729,590; Sept. 24.  
 Measure control, Liquid. E. P. Hayes and W. M. Harks. 1,697,840; Jan. 1.  
 Measure indicator. G. W. Dooley. 1,713,891; May 21.  
 Measure, Liquid. W. R. Brookins. Re17,202; Feb. 5.  
 Measure, Oil-can liquid. J. H. Graves and G. C. McRedmond. 1,733,079; Oct. 22.  
 Measure, Tailor's precision. J. Krukowski. 1,736,537; Nov. 19.  
 Measure, Visible. H. C. Smith. 1,710,119; Apr. 23.  
 Measurement and regulation of flow of steam or other fluid. G. Campbell. 1,697,344; Jan. 1.  
 Measurement-instrument casing, Electrical. B. H. Smith and C. Anderson. 1,734,236; Nov. 5.  
 Measurement of electrical resistance. L. A. Gary and H. G. Tasker. 1,736,783; Nov. 26.  
 Measurement of large volumes of water for water turbines, Arrangement for the. W. E. Gerner. 1,706,848; Mar. 26.  
 Measurement of the level and flow of liquids and the height or movement of a body, Apparatus for. G. F. Shoter. 1,727,254; Sept. 3.  
 Measurement of the level and flow of liquids, Apparatus for the. G. F. Shoter. 1,716,838-9; June 11.  
 Measurements, Method and arrangement for electrical. W. Kummerer. 1,708,544; Apr. 9.  
 Measurer and dipper, Ice-cream. W. E. Patzer. 1,705,533; Mar. 19.  
 Measuring and agitating means for containers. J. Roginger. 1,730,784; Oct. 8.  
 Measuring and comparing gears and the like, Method and apparatus for. R. W. Porter and R. O. Beardsley. 1,732,730; Oct. 22.  
 Measuring and computing machine, Cloth. A. Vanderfeld. 1,725,771; Aug. 27.  
 Measuring and cost-computing machine, Fabric. J. L. Wheeler. 1,738,546; Dec. 10.  
 Measuring and cutting machine, Tread. A. R. Krause. 1,741,634-5; Dec. 31.  
 Measuring and delivering apparatus for liquids. J. P. Courtioux. 1,699,562; Jan. 22.  
 Measuring and depositing plastic substances, Apparatus for. J. P. Bunce. 1,709,519; Apr. 16.  
 Measuring and depositing plastic substances, Apparatus for. G. D. Wilson. 1,699,417; Jan. 15.  
 Measuring and dispensing apparatus. W. D. Bell. 1,722,835; July 30.  
 Measuring and dispensing apparatus, Liquid. L. E. Baker. 1,697,675; Jan. 1.  
 Measuring and dispensing apparatus, Liquid. W. F. Brandt. 1,710,917; Apr. 30.  
 Measuring and dispensing apparatus, Liquid. J. H. Williams. 1,731,805; Oct. 15.  
 Measuring and dispensing device. H. A. Junge. 1,721,866; July 23.  
 Measuring and distributing liquids, Apparatus for. G. Dubreuil. 1,716,540; June 11.  
 Measuring and distributing system, Liquid. R. Porte. 1,740,875; Dec. 24.  
 Measuring and drawing instrument for making perspective pictures from nature. H. Hehmsoth. 1,706,229; Mar. 19.  
 Measuring and indicating the volume of liquid in a storage tank. H. Hastings. 1,712,038; May 7.  
 Measuring and mixing device. R. G. McDonald. 1,741,325; Dec. 31.  
 Measuring and recording pulsating pressure, Apparatus for. G. B. Ireland. 1,729,290; Sept. 24.  
 Measuring and shaping device for covers and backs for books. A. B. Roe. 1,697,326; Jan. 1.  
 Measuring and stopping device for towel cabinets. A. L. Overholt. 1,719,275; July 2.  
 Measuring apparatus. O. A. Ankersmit. 1,703,085; Feb. 26.  
 Measuring apparatus, Density-. C. W. Foulk. 1,709,258; Apr. 16.  
 Measuring apparatus, Distance-. G. Walker. 1,735,623; Nov. 12.  
 Measuring apparatus, Electric. G. Camilli and A. Boyajian. 1,701,358; Feb. 5.  
 Measuring apparatus, Electrical. P. N. Bossart. 1,715,446; June 4.  
 Measuring apparatus, Electrical. C. H. H. Rodanet. 1,697,369; Jan. 1.  
 Measuring apparatus, Height-. H. S. Benjamin. 1,736,185; Nov. 19.  
 Measuring apparatus, Liquid-. R. Porte. 1,732,063; Oct. 15.  
 Measuring apparatus, Liquid-. O. F. Roberts. 1,731,795; Oct. 15.  
 Measuring apparatus, Transmission-. K. Kűpfmüller, H. Mayer, and D. Thierbach. 1,705,926; Mar. 19.  
 Measuring can. H. E. Whitney. 1,706,336; Mar. 19.  
 Measuring conveyer. F. M. and W. F. Gunn. 1,734,671; Nov. 5.  
 Measuring cup. O. J. Merrill. 1,706,582; Mar. 26.  
 Measuring device. W. F. Bull. 1,715,405; June 4.  
 Measuring device. J. K. Carter. 1,735,729; Nov. 12.  
 Measuring device. H. H. Crawford. 1,736,490; Nov. 19.  
 Measuring device. G. S. Dunbar and S. R. Scholes. 1,718,897; June 25.  
 Measuring device. C. J. Hug. 1,735,249; Nov. 12.  
 Measuring device. W. C. Lineaweaver. 1,718,052; June 18.  
 Measuring device. W. F. Little. 1,722,101; July 23.  
 Measuring device. F. M. Miles. 1,721,635; July 23.  
 Measuring device. G. G. Schmidt. 1,721,137; July 16.  
 Measuring device. A. Steinel. 1,703,120; Feb. 26.  
 Measuring device. C. W. A. van Bergen. 1,700,659; Jan. 29.  
 Measuring device, Auto oil-. A. J. Marshall. 1,698,889; Jan. 15.  
 Measuring device, Body-. M. J. Weber. 1,741,174; Dec. 31.  
 Measuring device, Camber-. A. S. Knox. 1,712,889; May 14.  
 Measuring device, Distance-. H. C. Hayes. 1,729,595; Sept. 24.  
 Measuring device, Electrical. R. F. Norris. 1,712,516; May 14.  
 Measuring device, Foot-. C. R. Foard. 1,725,788; Aug. 27.  
 Measuring device for football games. L. More. 1,717,805; June 18.  
 Measuring device for oil wells. C. L. Redfield. 1,700,336; Jan. 29.  
 Measuring device for packaging machines. J. C. Brown. 1,719,685; July 2.  
 Measuring device, Height-. A. J. Jacobs. 1,713,180; May 14.  
 Measuring device, Liquid-. J. E. Bushnell. 1,740,390; Dec. 17.  
 Measuring device, Liquid-. M. J. Huggins. 1,723,172; Aug. 6.  
 Measuring device, Liquid-. L. R. Titcomb. 1,735,023; Nov. 12.  
 Measuring device, Water-. E. H. Lichtenberg. 1,712,832; May 14.  
 Measuring device, Well-. G. T. Berry. 1,705,553; Mar. 19.  
 Measuring differences in time of propagation of wave fronts of different frequencies over a circuit. J. Herman. 1,730,368; Oct. 8.  
 Measuring dispenser. C. Mason and A. W. Bond. 1,710,233; Apr. 23.  
 Measuring distance. W. F. Grimes. 1,724,576; Aug. 13.  
 Measuring distance, Apparatus for. W. F. Grimes. 1,739,901; Dec. 17.  
 Measuring distance, Method of and apparatus for. H. C. Hayes. 1,709,573; Apr. 16.  
 Measuring electric current, Instrument for. A. N. Anderson. 1,729,320; Sept. 24.  
 Measuring electrical quantities, System for. R. Dubusc. 1,707,079; Mar. 26.  
 Measuring feeder. C. O. Flowers. 1,723,025; Aug. 6.  
 Measuring fluids for turbidity, color, etc., Instrument for. W. G. Exton. 1,707,717; Apr. 2.  
 Measuring hopper. R. W. Miller. 1,700,773; Feb. 5.  
 Measuring instrument. A. M. Curtis. 1,719,465; July 2.  
 Measuring instrument. A. P. Jacob. 1,703,736; Feb. 26.  
 Measuring instrument. F. Prsha. 1,718,003; June 18.  
 Measuring instrument. H. Schlaich. 1,724,520; Aug. 13.  
 Measuring instrument. E. R. Smith. 1,712,055; May 7.  
 Measuring instrument. L. B. Tuckerman, H. N. Eaton, and G. H. Keulegan. 1,723,636; Aug. 6.  
 Measuring instrument. M. D. Vieta. 1,707,586; Apr. 2.  
 Measuring instrument. R. von Voss and M. Schleicher. 1,740,130; Dec. 17.  
 Measuring instrument, Angle-. J. T. Zak. 1,723,456; Aug. 6.  
 Measuring instrument, Angle and hypotenuse. W. Jenny. 1,730,852; Oct. 8.  
 Measuring instrument, Combined level and angle-. H. W. Norgaard. 1,709,227; Apr. 16.  
 Measuring instrument, Electric. C. I. Hall. 1,713,179; May 14.



- Measuring instrument, Electric-current-. M. J. Huggins. 1,709,851; Apr. 23.
- Measuring instrument, Electrical. W. M. Bradshaw and C. Oman. 1,705,711; Mar. 19.
- Measuring instrument, Electrical. A. Callsen. 1,699,777; Jan. 22.
- Measuring instrument, Electrical. C. E. Foster. 1,708,294; Apr. 9.
- Measuring instrument, Electrical. E. H. Greibach. 1,699,788; Jan. 22.
- Measuring instrument, Electrical. F. G. Kelly, jr. 1,702,444; Feb. 19.
- Measuring instrument, Electrical. P. MacGahan. 1,740,548; Dec. 24.
- Measuring instrument, Electrical. P. MacGahan and L. Stalder. 1,734,220; Nov. 5.
- Measuring instrument, Resistance-. M. Martens. 1,740,188; Dec. 17.
- Measuring instrument, Electrical. J. H. Miller. 1,705,301; Mar. 12.
- Measuring instrument, Electrical. J. Neale. 1,729,517; Sept. 24.
- Measuring instrument, Electrical. C. Oman. 1,707,278; Apr. 2.
- Measuring instrument, Electrical. C. Oman. 1,709,803; Apr. 16.
- Measuring instrument, Electrical. R. T. Pierce. 1,699,807; Jan. 22.
- Measuring instrument, Electrical. E. G. Ratz. 1,734,229; Nov. 5.
- Measuring instrument, Electrical. G. Reime. 1,705,682; Mar. 19.
- Measuring instrument, Electrical. A. R. Rutter and W. G. Mylius. 1,702,416; Feb. 19.
- Measuring instrument, Electrical. H. B. Smith. 1,702,421; Feb. 19.
- Measuring instrument, Electrical. W. M. Scott and R. E. Tresise. 1,724,734; Aug. 13.
- Measuring instrument, Electrical. G. Wall. 1,702,457; Feb. 19.
- Measuring instrument, Foot-. C. F. Brannock. 1,725,334; Aug. 20.
- Measuring instrument, Linear-. T. G. Herjng. 1,725,981; Aug. 27.
- Measuring instrument, Pressure-. L. W. Thompson. 1,708,309; Apr. 9.
- Measuring instrument, Pressure-. L. W. Thompson. 1,717,280; June 11.
- Measuring instruments, Cover plate for. L. C. Tingley. 1,723,390; Aug. 6.
- Measuring instruments, Elbow fitting for. H. S. Woolley. 1,713,315; May 14.
- Measuring instruments, Indicating elements of. J. A. Hartcup. 1,734,430; Nov. 5.
- Measuring instruments, Overload indicator for. C. A. Mullen. 1,732,338; Oct. 22.
- Measuring instruments, Recording device for. A. Chagnaud. 1,738,563; Dec. 10.
- Measuring machine. G. E. Abbott. 1,703,083; Feb. 26.
- Measuring machine. G. A. Schettler. 1,732,341; Oct. 22.
- Measuring machine. O. C. Schmidt. 1,699,494; Jan. 15.
- Measuring machine. J. R. Weaver. 1,731,403; Oct. 15.
- Measuring machine, Fabric-. J. L. Wheeler. 1,701,991; Feb. 12.
- Measuring machine, Unit-. C. N. Bergmann, E. Z. and C. Taylor, J. P. Jensen, and W. A. Fenn. 1,734,107; Nov. 5.
- Measuring machine, Unit-. C. N. Bergmann, E. Z. and C. Taylor. 1,734,108; Nov. 5.
- Measuring materials, Apparatus for. A. Marchev. 1,739,247; Dec. 10.
- Measuring means, Electromagnetic pressure-. O. R. Schurig. 1,718,494; June 25.
- Measuring of time intervals. N. F. Agnew. 1,741,006; Dec. 24.
- Measuring pressure of piston rings, Apparatus for. M. Okochi and K. Ebihara. 1,698,200; Jan. 8.
- Measuring pulsating pressures, Apparatus for. G. B. Ireland. 1,729,291; Sept. 24.
- Measuring pump. G. Cawley. 1,720,999; July 16.
- Measuring receptacle, Culinary. A. F. L. Schmidt. 1,737,735; Dec. 3.
- Measuring system. W. T. Haines. 1,736,785; Nov. 26.
- Measuring system, Electrical-quantities. W. Sarfert. 1,707,773; Apr. 2.
- Measuring system, High-frequency. H. A. Affel. 1,727,328; Sept. 10.
- Measuring system, High-frequency. H. A. Affel. 1,727,388; Sept. 10.
- Measuring, Superheat. T. R. Harrison. 1,721,556; July 23.
- Measuring tank. N. M. Rosendahl. 1,721,923; July 23.
- Measuring tank, Sectional water-. F. H. Heine. 1,702,898; Feb. 19.
- Measuring tap. J. S. Weightman. 1,719,348; July 2.
- Measuring tape. A. Langsner. 1,726,960; Sept. 3.
- Measuring tape reel. A. Langsner. 1,739,240; Dec. 10.
- Measuring the current densities of galvanic baths, Device for. W. A. F. Pfanhauser. 1,735,878; Nov. 19.
- Measuring the human feet. W. M. Scholl. 1,725,021; Aug. 20.
- Measuring the inductance of cables and conductors, Method of and apparatus for. W. E. Mougey. 1,700,444; Jan. 29.
- Measuring the intervals between perforations in regular series thereof, Device for. H. Lummerzheim. 1,701,048; Feb. 5.
- Measuring the length, speed, and continuity of webs. C. E. Braun. 1,703,387; Feb. 26.
- Measuring the material required to cut irregular-shaped patterns, Process and apparatus for. M. H. Raymond. 1,706,967; Mar. 26.
- Measuring the mean thickness of sheet materials, Instrument for. J. H. Walcott. 1,707,776; Apr. 2.
- Measuring the period of reciprocating bodies, Apparatus for. T. Takahashi. 1,733,078; Oct. 22.
- Measuring the permeability of magnetic materials, Apparatus for. B. J. Babbitt. 1,739,277; Dec. 10.
- Measuring the quantity of a liquid or gaseous medium passing through the device in one unit of time, Device for. R. Schiske. 1,699,163; Jan. 15.
- Measuring the quantity of liquid in tanks. M. J. Huggins. 1,723,173; Aug. 6.
- Measuring the quantity of steam, gas, air, water, or like medium flowing through a pipe, Apparatus for. E. P. G. Wunsch. 1,726,463; Aug. 27.
- Measuring the velocities of fluids, Apparatus for. J. T. MacGregor-Morris. 1,724,296; Aug. 13.
- Measuring torsion, Device for. V. Vieweg. 1,720,582; July 9.
- Measuring turbidity, color, and other characteristics of fluid, etc., Instrument for. W. G. Exton. 1,717,702; June 18.
- Measuring volt amperes, Method of and apparatus for. B. E. Lenehan. 1,732,726; Oct. 22.
- Measuring volumetrically granular powdered material, Apparatus for. J. E. Lea. 1,697,072; Jan. 1.
- Measuring weir discharge and rules therefor. I. M. Clausen and R. A. Pierce. 1,735,953; Nov. 19.
- Measuring with the aid of sound waves, Distance. W. Kunze. 1,713,422; June 25.
- Meat-cheese loaf and preparing same. C. H. Parsons. 1,721,406; July 16.
- Meat chopper. T. H. Strachan. 1,738,933; Dec. 10.
- Meat paste and making the same. R. W. Dyer. 1,697,857; Jan. 8.
- Meat press. G. Lidseen. 1,720,367; July 9.
- Meat roaster, Barbecue. W. S. Goodell. 1,732,010; Oct. 15.
- Meat-skinning machine. M. A. Watson. 1,703,217; Feb. 26.
- Meat tenderer. A. F. Darling. 1,739,214; Dec. 10.
- Meat-tendering device. J. P. Spang. 1,736,137-8; Nov. 19.
- Mechanical applauder. B. Escovar. 1,711,309; Apr. 30.
- Mechanical chair. F. T. Smith and D. O. Ellis. 1,700,088; Jan. 22.
- Mechanical drier, Continuous. O. D. Rice. 1,730,590; Oct. 8.
- Mechanical maid. R. W. Rose. 1,715,951; June 4.
- Mechanical motor. S. L. Connell. 1,697,226; Jan. 1.
- Mechanical movement. A. Andrews. 1,738,512; Dec. 10.
- Mechanical movement. E. Bachelet. 1,738,981; Dec. 10.
- Mechanical movement. J. C. Conn. 1,701,173; Feb. 5.
- Mechanical movement. R. Erich. 1,716,543; June 11.
- Mechanical movement. A. I. Ferrier. 1,710,158; Apr. 23.
- Mechanical movement. E. D. Harris. 1,717,706; June 18.
- Mechanical movement. K. Karnath. 1,705,481; Mar. 19.
- Mechanical movement. I. N. Keeling. 1,708,888; Apr. 9.
- Mechanical movement. C. W. Kurie, jr. 1,702,164; Feb. 12.
- Mechanical movement. C. W. Kurie, jr. 1,735,928; Nov. 19.
- Mechanical movement. W. E. Martois. 1,712,927; May 14.
- Mechanical movement. F. C. Morrow. 1,698,446; Jan. 8.
- Mechanical movement. S. L. Norton. 1,738,963; Dec. 10.
- Mechanical movement. A. Novick. 1,732,945; Oct. 22.
- Mechanical movement. R. S. Pearson. 1,710,002; Apr. 23.
- Mechanical movement. R. A. Rodrick. 1,712,718; May 14.
- Mechanical movement. O. C. Schroeder. 1,709,233; Apr. 16.
- Mechanical movement. E. Skillman. 1,699,574; Jan. 22.
- Mechanical movement. R. B. Smith. 1,711,103; Apr. 30.
- Mechanical movement. E. H. W. Weibull. 1,713,064; May 14.
- Mechanical movement. G. C. and M. J. Weiss. 1,713,245; May 14.
- Mechanical movement. G. Zint. 1,726,374; Aug. 27.
- Mechanical movement, Apparatus for producing reciprocating. G. A. Bouvier. 1,711,168; Apr. 30.
- Mechanical movement for sound propagation. M. R. Hutchison. 1,718,357; June 25.
- Mechanical shovel. F. Archibald. 1,710,564; Apr. 23.
- Mechanically treating objects, Method and apparatus for. O. Kremmling. 1,741,722; Dec. 31.
- Mechanism for elevating and turning cultivators, hay-rakes, or the like. F. G. Hengst. 1,719,054; July 2.
- Mechanism for inserting doctor blades. F. W. Vickery. 1,719,094; July 2.
- Mechanism for operating excavator shovels. G. T. Ronk. 1,726,770; Sept. 3.
- Mechanism for transferring knitted webs. L. Williams. 1,718,327; June 25.
- Mechanism for working fibrous material. E. M. Bidwell. 1,720,715; July 16.
- Medal. H. K. Bush-Brown. Des. 78,497; May 7.



- Medal or similar article. G. F. Rider. Des. 79,103; July 30.
- Medical appliance. W. J. Kelley. 1,741,313; Dec. 31.
- Medical capsule. J. G. Homan. 1,707,762; Apr. 2.
- Medical compound. C. N. Anderson. 1,703,377; Feb. 26.
- Medical electrode. N. H. Lowry and L. F. Megaw. 1,713,970; May 21.
- Medical swabs, Process and apparatus for manufacturing. L. Gerstenzang. 1,721,815; July 23.
- Medicaments to the lips, Apparatus for applying. O. Temple. 1,735,221; Nov. 12.
- Medicated peg. E. L. Willman. 1,721,334; July 16.
- Medicinal applicator. A. E. Smith. 1,703,903; Mar. 5.
- Medicinal preparation. E. W. Lipschutz. 1,714,430; May 21.
- Medicine dropper. C. G. Wheeland. 1,713,937; May 21.
- Medicine for bronchial affections. A. Panalle. 1,723,459; Aug. 6.
- Medicines, Preparing. I. Magat. 1,741,786; Dec. 31.
- Melting and casting, Apparatus for. H. L. Coles and J. G. Donaldson. 1,703,658; Feb. 26.
- Melting and refining furnace. T. F. Baily. 1,739,343; Dec. 10.
- Melting furnace. S. Schneider. 1,715,678; June 4.
- Melting furnace. W. Steffe. 1,717,813; June 18.
- Melting pot, Auxiliary. F. M. and W. A. Joernndt. 1,728,888; Sept. 17.
- Melting pot, Electric. F. Kuhn and L. H. Thomas. 1,733,908; Dec. 10.
- Melting pot for light metals and alloys thereof. J. E. Hoy. 1,707,161; Mar. 26.
- Memoranda device. J. C. Crawford. 1,714,159; May 21.
- Memorandum and making the same, Mechanical. M. Lichter. 1,734,496; Nov. 5.
- Memorandum apparatus. W. W. Bonnell. 1,718,404; June 25.
- Memorandum device. W. F. Vernon. 1,729,916; Oct. 1.
- Memorandum device, Automobile expense. G. H. Jones. 1,729,512; Sept. 24.
- Memorandum-pad-box construction, Loose-leaf. B. H. Harris. 1,698,950; Jan. 15.
- Menthol, Manufacture of. K. Schöllkopf. 1,704,630; Mar. 5.
- Menthol, Production of. H. Jordan, W. Schoeller, and R. Clerc. 1,706,784; Mar. 26.
- Menthol, Production of. W. Schoeller and H. Jordan. 1,718,666; June 25.
- Menthol, Production of. W. Schoeller, H. Jordan, and R. Clerc. 1,737,272; Nov. 26.
- Mercaptans, Making. R. W. Hess and J. M. F. Leaper. 1,729,615; Oct. 1.
- Mercaptans of the furfuryl series, Producing. H. Staudinger and T. Reichstein. 1,715,795; June 4.
- Mercurizing process. A. Bosshard. 1,717,870; June 18.
- Merchandise display and cooling case, Combination. L. T. Summers. 1,697,294; Jan. 1.
- Merchandising and display equipment. L. S. Anderson. 1,720,876; July 16.
- Merchandising device. G. M. Kendall. 1,699,511; Jan. 15.
- Mercuric cyanide tartrate and making it. M. Miyahara. 1,732,106; Oct. 15.
- Mercury arc rectifier system. J. C. Read. 1,734,915; Nov. 5.
- Mercury arc tube with grid control. J. Slepian. 1,731,687; Oct. 15.
- Mercury compound having therapeutic properties. A. Albert and J. Pfeiffer. 1,704,694; Mar. 12.
- Mercury from its ores and from residues of their roasting, Extraction of. I. Cavalli. 1,731,699; Oct. 15.
- Mercury fulminate and treating same. J. D. McNutt. 1,718,371; June 25.
- Mercury interrupter, Rotary. P. H. Pierce and W. J. Means. 1,711,689; May 7.
- Mercury, Producing. W. Glaeser. Re17,276; Apr. 23.
- Mercury-pump system. E. B. Shand. 1,702,419; Feb. 19.
- Mercury, Purifying. J. G. De Remer. 1,707,471; Apr. 2.
- Mercury salts, Manufacture of. H. S. Reid and A. H. Maude. 1,721,188; July 16.
- Mercury switch. W. R. Armstrong. 1,708,996; Apr. 16.
- Mercury trap. E. Gruber. 1,724,279; Aug. 13.
- Mercury-vapor detector. B. W. Nordlander. 1,711,742; May 7.
- Mercury-vapor rectifier plant. R. Rüdenberg. 1,707,142; Mar. 26.
- Merry-go-round. H. D. Clayton. 1,733,005; Oct. 22.
- Merry-go-round. S. J. Garcia. 1,729,379; Sept. 24.
- Merry-go-round. R. F. Lamar. 1,739,725; Dec. 17.
- Merry-go-round. A. J. Racosky, sr. 1,709,917; Apr. 23.
- Merry-go-round. F. D. Swader. 1,718,718; June 25.
- Merry-go-round, Rider-actuated. J. W. Ahrens. 1,732,999; Oct. 22.
- Mesh fabric, Metal. S. C. Rice. Des. 78,124; Mar. 26.
- Mesh machine. F. Sweeting. 1,728,639; Sept. 17.
- Metal. F. J. Read. 1,714,729; May 28.
- Metal-aligning device. C. Schumacher. 1,739,738; Dec. 17.
- Metal and its manufacture, Refractory. J. H. Ramage. 1,733,752; Oct. 29.
- Metal and magnet core. J. Züger. 1,741,751; Dec. 31.
- Metal and red metal, Working up mixed shavings of white. A. Schwarz. 1,739,992; Dec. 17.
- Metal and wood frame. I. A. Baum. 1,703,566; Feb. 26.
- Metal, Antifriction. R. J. Shoemaker. 1,703,212; Feb. 26.
- Metal, Antifriction and antiabrasive. W. Koehler. 1,714,564; May 28.
- Metal articles and the product thereof, Finishing. E. G. Bek and E. Thoma. 1,712,244; May 7.
- Metal articles, Making. W. P. Witherow. 1,707,778; Apr. 2.
- Metal articles, Producing headed. A. L. Davis. 1,723,769; Aug. 6.
- Metal ball, Ornamental hollow. C. H. Fuller. 1,728,600; Sept. 17.
- Metal band. L. J. Leon. 1,729,661; Oct. 1.
- Metal-bearing materials, Method and apparatus for removing certain constituents from. H. V. Welch. 1,730,548; Oct. 8.
- Metal bench. E. McClure. 1,721,601; July 23.
- Metal-bending brake. J. Krueger. 1,721,698; July 23.
- Metal-bending device. J. Zatti. 1,731,087; Oct. 8.
- Metal bodies, Manufacturing composite. W. Ehlers. 1,698,300; Jan. 8.
- Metal body structure for automobiles. J. Ledwinka. 1,725,761; Aug. 27.
- Metal border strip or similar article of manufacture. L. W. Rice. Des. 73,898; July 2.
- Metal box. E. A. Knight and R. H. Folkes. 1,709,584; Apr. 16.
- Metal-breaking device. G. Powell. 1,719,278; July 2.
- Metal buck and trim. I. A. Baum. 1,716,023; June 4.
- Metal buck for thick walls. I. A. Baum. 1,712,020; May 7.
- Metal can. N. P. Bach. 1,713,067; May 14.
- Metal castings of metals of different hardness and contractive properties Forming. C. E. Reinhardt. 1,731,060; Oct. 8.
- Metal cleaning. J. H. Gravell. 1,713,653; May 21.
- Metal clip. F. M. Porter. 1,730,241; Oct. 1.
- Metal-coating metal sheets. E. R. Wehr and C. C. Mahlie. 1,741,388; Dec. 31.
- Metal coating metal sheets. E. R. Wehr, C. C. Mahlie, and J. R. Cain. 1,722,949; July 30.
- Metal-coiling apparatus. D. L. Summey. 1,739,620; Dec. 17.
- Metal composition. G. R. Fonda. 1,721,383; July 16.
- Metal composition, Hard-. K. Schröter. 1,721,416; July 16.
- Metal compound of pyrocatechin, Complex. H. Schmidt. 1,718,492; June 25.
- Metal compound of pyrogallol sulphonic acid, Complex. H. Schmidt. 1,718,493; June 25.
- Metal-cutting apparatus. H. B. Royer. 1,698,173; Jan. 8.
- Metal, Enameling. W. J. Beck and J. A. Aupperle. 1,704,586; Mar. 5.
- Metal, Expanding. H. M. Gersman. 1,737,998; Dec. 3.
- Metal fabric and making the same. V. H. Farr. 1,706,524; Mar. 26.
- Metal fabric, Ornamental. M. Nicoletti. 1,728,867; Sept. 17.
- Metal feeder. W. Alderdice. 1,723,595; Aug. 6.
- Metal feeder. C. W. Reagan. 1,737,865; Dec. 3.
- Metal filaments, Making. R. Jacoby and F. Koref. 1,739,234; Dec. 10.
- Metal-finishing machine, Strip-. J. R. Nikolais. 1,710,941; Apr. 30.
- Metal flashing, Interlocking. A. Cheney. 1,715,000; May 28.
- Metal flashing, Interlocking. A. Cheney. 1,728,955; Sept. 24.
- Metal, Forming. R. E. Wells. 1,697,035; Jan. 1.
- Metal-forming fixture. R. P. Heckman. 1,704,830; Mar. 12.
- Metal for painting, Preparing. J. H. Gravell. 1,740,731; Dec. 24.
- Metal framing. I. A. Baum. 1,698,983; Jan. 15.
- Metal grids, Device for assembling. S. Gurian. 1,709,128; Apr. 16.
- Metal-handling apparatus. L. E. Allen. 1,712,287; May 7.
- Metal-handling apparatus. G. A. La Rocque. 1,741,782; Dec. 31.
- Metal-heading machines, Roll feed for. C. T. Brennan. 1,700,736; Feb. 5.
- Metal, Heat-enduring. N. V. Hybinette. 1,698,098; Jan. 8.
- Metal hoop. A. M. Walstrom. Re17,423; Sept. 3.
- Metal joint. L. H. Johnson. 1,725,277; Aug. 20.
- Metal joint, Sheet-. S. F. Kohn. 1,731,424; Oct. 15.
- Metal lacing. F. Collins. Des. 78,009; Mar. 19.
- Metal leaf, Process of and apparatus for applying. W. O. Snelling. 1,728,635; Sept. 17.
- Metal-lined pipe, Precast concrete. T. De La Mare. 1,741,049; Dec. 24.
- Metal, Making protected. F. M. Crapo. 1,726,652; Sept. 3.
- Metal, Manufacture of expanded. G. W. Baker and J. H. Dean. 1,742,155; Dec. 31.
- Metal, Method and apparatus for coating. F. Smith. 1,710,747; Apr. 30.
- Metal, Method and apparatus for making articles of galvanoplastic. G. Rosenqvist. 1,735,909; Nov. 19.
- Metal on metal tubes, Apparatus for use in the electrolytic deposition of. F. J. Pike and C. J. Lyth. 1,738,727; Dec. 10.
- Metal oxides, Reducing rare refractory. M. N. Rich. 1,738,669; Dec. 10.
- Metal, Perforated or expanded sheet. F. Humphris. 1,704,608; Mar. 5.
- Metal pickling. J. H. Gravell. 1,721,389; July 16.
- Metal, Pickling and cleaning of. G. D. Chamberlain. 1,719,649; July 2.



- Metal-pickling baths, Selectively controlling. J. H. Gravell. 1,736,118; Nov. 19.
- Metal pipe, Sheet-. B. E. Gullion. 1,706,525; Mar. 26.
- Metal planer. C. E. Linden and G. H. Langen. 1,740,185; Dec. 17.
- Metal plate, Composite. H. L. Coles and J. G. Donaldson. 1,702,766; Feb. 19.
- Metal plate, Precious-. V. D. Davignon. 1,725,445; Aug. 20.
- Metal plating nonmetallic substance. H. C. Fisher. 1,704,125; Mar. 5.
- Metal-polishing machine. O. G. Schmitt. 1,741,166; Dec. 31.
- Metal portions of electrical apparatus, Reclaiming. C. A. Hallam. 1,722,372; July 30.
- Metal pot for line-casting machines. H. R. Freund. 1,718,922; June 25.
- Metal-pouring apparatus. E. R. Orbin. 1,726,581; Sept. 3.
- Metal-pouring apparatus for centrifugal casting machines. J. E. Hurst and E. B. Ball. 1,737,459; Nov. 26.
- Metal-pouring device. M. W. Goldberg. 1,707,549; Apr. 2.
- Metal powder, Manufacture of bodies from. C. F. Sherwood. 1,708,192; Apr. 9.
- Metal-rolling mill. L. Young. 1,729,410; Sept. 24.
- Metal running board. J. Boca. 1,735,948; Nov. 19.
- Metal scrap, Utilizing light. H. Chamberlain. 1,725,780; Aug. 27.
- Metal shape, Corrugated-sheet-. H. Junkers. 1,704,326; Mar. 5.
- Metal-shaping machine. C. A. Dix. 1,719,002; July 2.
- Metal-shaping machine. J. W. Vance. 1,732,450; Oct. 22.
- Metal-sharpening machine. H. J. Gaisman and C. Schumacher. 1,699,510; Jan. 15.
- Metal shears. R. Heinrich. 1,727,059; Sept. 3.
- Metal sheets and strips, Manufacturing. O. Junker. 1,701,889; Feb. 12.
- Metal sheets, Process of and apparatus for making. H. C. Harrison. 1,704,247; Mar. 5.
- Metal sheets, Separating. V. G. Ross. 1,716,602; June 11.
- Metal spiders, Making flanged. H. A. Husted. 1,721,664; July 23.
- Metal-spinning apparatus. R. G. Nelson. 1,728,002; Sept. 10.
- Metal stay and making the same. H. Escobales. 1,703,522; Feb. 26.
- Metal stock, Composite precious-. F. B. Fry. 1,704,126; Mar. 5.
- Metal strip suitable for turbine blades, Manufacture of. C. A. Parsons and E. G. Brownlow. 1,729,009; Sept. 24.
- Metal structure, Composite. A. Goertz. 1,736,968; Nov. 26.
- Metal structure for railway cars. A. E. Small. 1,729,313; Sept. 24.
- Metal structures, Manufacture of expanded. A. J. Bates, jr. 1,741,273; Dec. 31.
- Metal strut. E. B. Carns. 1,725,439; Aug. 20.
- Metal substitute. A. W. Colen. 1,713,865; May 21.
- Metal surfaces, Cleaning of. C. F. Dinley. 1,729,766; Oct. 1.
- Metal-sweating furnace. T. Lewin. 1,701,722; Feb. 12.
- Metal switch, Pressed-. C. H. Hodgkins. 1,732,750; Oct. 22.
- Metal-tapering machine. W. H. Montgomery. 1,725,594; Aug. 20.
- Metal to glass, Permanently securing. F. S. Dickinson. 1,727,755; Sept. 10.
- Metal-treating furnace. A. T. Kathner. 1,725,398; Aug. 20.
- Metal trim stick. J. L. MacInerney. 1,724,946; Aug. 20.
- Metal tube and making same. W. J. Robinson. 1,715,099; May 28.
- Metal-tube press. L. Hinkel. 1,726,300; Aug. 27.
- Metal unit and producing the same, Hollow sheet-. A. R. Gross. 1,741,932; Dec. 31.
- Metal walls, Making flexible corrugated-. W. R. Zimmerman. 1,711,075; Apr. 30.
- Metal, wood, and other substances and in objects so protected, Protecting. J. R. Hatmaker. 1,720,177; July 9.
- Metal working. J. Rosenberg. 1,709,323; Apr. 16.
- Metal-working machine. J. B. Armitage. 1,726,376; Aug. 27.
- Metal-working machine. S. A. Asquith. 1,740,721; Dec. 24.
- Metal-working machine. R. S. Brown and J. H. Montstream. 1,704,032; Mar. 5.
- Metal-working machine. C. C. Grotnes. 1,722,418; July 30.
- Metal-working machine. F. E. Munschauer. 1,714,566; May 28.
- Metal-working machine. C. E. Walling. 1,728,380; Sept. 17.
- Metal-working machine. E. H. Wilson and R. W. Schuette. 1,707,421; Apr. 2.
- Metal-working machine, Electric. A. L. Bausman. 1,730,050; Oct. 1.
- Metal-working machine for making punched nut blanks. G. S. Smith. 1,702,320; Feb. 19.
- Metal-working machine, Portable. J. Appleton. 1,708,822; Apr. 9.
- Metal-working machinery. H. Baerbalck. 1,700,966-7; Feb. 5.
- Metal-working machinery. W. B. Peirce. 1,719,446; July 2.
- Metalizing the surfaces of insulating bands particularly for use in electric condensers. E. Piffner. 1,731,261; Oct. 15.
- Metallic article of manufacture. J. G. Donaldson. 1,703,416; Feb. 26.
- Metallic articles, Making hollow. F. C. Langenberg. 1,710,776; Apr. 30.
- Metallic beryllium, Production of. W. Kroll. 1,740,857; Dec. 24.
- Metallic bodies by a combined casting and pressing process, Production of. H. Barthel. 1,698,010; Jan. 8.
- Metallic bodies to glass and the combination of metals used in said process, Fusing. R. Engels. 1,724,465; Aug. 13.
- Metallic bodies, Uniting. C. F. Sherwood. 1,708,193; Apr. 9.
- Metallic chair. W. S. Ferris. 1,711,492; May 7.
- Metallic connections, Making. M. W. Tebyrica. 1,735,809; Nov. 12.
- Metallic diaphragms for talking machines, telephone and wireless apparatus, etc., Manufacturing of. R. Reinert. 1,721,038; July 16.
- Metallic element. L. W. McKeehan. 1,738,307; Dec. 3.
- Metallic foils, Manufacture of thin. C. Müller. 1,709,801; Apr. 16.
- Metallic materials, Production of finely-divided. J. H. White. 1,739,052; Dec. 10.
- Metallic plate, Corrugated. G. G. Gilpin. 1,729,342; Sept. 24.
- Metallic-plate structure, Corrugated. G. G. Gilpin. 1,729,340; Sept. 24.
- Metallic plates, Reinforcing means for. A. E. Small. 1,707,237; Apr. 2.
- Metallic rectifier construction. C. E. Ogden. 1,718,663; June 25.
- Metallic rectifier plates, Constructing. C. E. Ogden. 1,698,921; Jan. 15.
- Metallic rings for packing purposes, Manufacturing metallic. M. Okochi and K. Ebihara. 1,705,643; Mar. 19.
- Metallic screen. A. L. Otto. 1,698,064-5; Jan. 8.
- Metallic sheets by electroplating, Making. G. Yungblut. 1,698,486; Jan. 8.
- Metallic surfaces against incrustation and corrosion, Protection of. W. Thalhofer. 1,736,986; Nov. 26.
- Metallic surfaces against incrustations and deposits, Protection of. W. Thalhofer. 1,736,987; Nov. 26.
- Metallic wheel. J. E. Sims. 1,706,327; Mar. 19.
- Metallic xanthates, Manufacture of. C. J. T. Cronshaw and W. J. S. Naunton. 1,740,809; Dec. 24.
- Metallized walkway surface. H. H. Smith. 1,733,471; Oct. 29.
- Metallo-organic compounds, Preparing. C. A. Kraus and C. C. Callis. 1,697,245; Jan. 1.
- Metallurgical apparatus and process. F. D. S. Robertson. 1,702,575; Feb. 19.
- Metallurgical furnace. B. Talbot. 1,729,230; Sept. 24.
- Metallurgical furnace. A. J. Briggs. 1,697,259; Jan. 1.
- Metallurgical furnace. D. Cushing. 1,703,337; Feb. 26.
- Metallurgical furnace. B. Talbot. 1,716,391; June 11.
- Metallurgical process. J. H. White. 1,700,460; Jan. 29.
- Metallurgical process and product. L. H. Marshall. 1,707,529; Apr. 2.
- Metals and alloys, Producing. T. R. Haglund. 1,731,976; Oct. 15.
- Metals and products thereof, Improving ferrous. E. S. Fisher. 1,712,879; May 14.
- Metals, Apparatus for refining. H. W. York. 1,733,522; Oct. 29.
- Metals, Derusting ferrous. W. H. Cole. 1,715,695; June 4.
- Metals, Bonding dissimilar. J. V. O. Palm. 1,729,747; Oct. 1.
- Metals from metal-bearing materials, Winning of. B. Rodrian. 1,728,735; Sept. 17.
- Metals from ores and metallurgical products, Extracting volatilizable. H. Pape. 1,736,665; Nov. 19.
- Metals, Manufacture of ductile bodies from highly-refractory. J. A. Van Liempt. 1,728,814; Sept. 17.
- Metals, Mechanical working of. V. Retterath. 1,707,279; Apr. 2.
- Metals, Melting and refining of nonferrous. D. Cushing. Re17,347; July 2.
- Metals, Pickling of. G. D. Chamberlain. 1,719,650; July 2.
- Metals, Preparing refractory. J. W. Marden, T. P. Thomas, and J. E. Conley. 1,704,257; Mar. 5.
- Metals, Process of and apparatus for recovering volatile. B. Ormont. 1,728,359; Sept. 17.
- Metals, Producing. J. Savelsberg. 1,723,444; Aug. 6.
- Metals, Production of diffused layers on. E. Lay. 1,711,603; May 7.
- Metals, Production of rare. J. W. Marden and M. N. Rich. 1,728,941; Sept. 24.
- Metals, Purifying light. H. E. Bakken. 1,710,398; Apr. 23.
- Metals, Uniting. N. H. Adams. 1,730,443; Oct. 8.
- Meter: See—
- Ampere meter. Electric meter.
- Boiler-efficiency meter. Electricity meter.
- Coffee meter. Electrostatic voltage meter.
- Consistency meter. Exposure meter.
- Cross-talk meter. Flow meter.
- Current meter. Fluid meter.
- Demand meter. Frequency meter.
- Drift and speed meter. Gas meter.



Meter: See—

Indicating demand flow meter. Recording meter.  
Induction meter. Speed meter.  
Induction watt-hour meter. Water meter.  
Liquid meter. Watless component meter.  
Magnetic meter. Wave meter.  
Motor meter. Weir meter.  
Range meter.  
Meter. C. A. Dawley. 1,732,434; Oct. 22.  
Meter. W. L. Marden. 1,732,689; Oct. 22.  
Meter. M. Smithy. 1,737,808; Dec. 3.  
Meter adapter. G. E. Palmer and E. G. Johnson. 1,716,660; June 11.  
Meter and recorder, Demand. C. I. Hall. 1,742,072; Dec. 31.  
Meter and the like. T. A. Banning, jr. 1,729,144; Sept. 24.  
Meter and the like, Flow. L. W. Thompson. 1,699,126; Jan. 15.  
Meter attachment. A. R. Rutter. 1,725,161; Aug. 20.  
Meter box. A. Flink. 1,702,296; Feb. 19.  
Meter box. L. G. Haase. 1,719,224; July 2.  
Meter-compensating device. H. T. Faus. 1,724,833; Aug. 13.  
Meter construction, Gas-. W. J. Henning. 1,723,509; Aug. 6.  
Meter device for tank trucks, Liquid-. J. R. Douglas. 1,707,657; Apr. 2.  
Meter diaphragm, Gas-. A. R. Huettig. 1,719,978; July 9.  
Meter disk, Water-. N. C. Cotabish. 1,707,346; Apr. 2.  
Meter fitting, Gas-. A. Schoneberger. 1,722,236; July 23.  
Meter for concrete-mixing machines. J. Eggert. 1,738,045; Dec. 3.  
Meter for dynamic balancing machines, Recording amplitude. F. T. McDonough. 1,712,508; May 14.  
Meter for liquid distributors, Servo. M. Carbonaro. 1,728,821; Sept. 17.  
Meter for liquids, Automatic recording. M. C. Carbonaro. Re17,287; May 7.  
Meter housing. C. C. Dean and B. F. Stephens. 1,715,538; June 4.  
Meter-indicator drive, Water-. E. E. Gamon. 1,701,070; Feb. 5.  
Meter-indicator mechanism, Gas-. E. A. Kerstein. 1,700,845; Feb. 5.  
Meter insert for heaters. G. A. H. Binz. 1,708,301; Apr. 9.  
Meter lubricator. J. M. Gow. 1,737,457; Nov. 26.  
Meter motor, Magnetic. E. H. Ford. 1,724,272; Aug. 13.  
Meter protective means, Electric-. T. Reyman. 1,731,685; Oct. 15.  
Meter-regulating device. A. Peter. Re17,501; Nov. 26.  
Meter-regulating device. A. Peter. 1,708,894; Apr. 9.  
Meter seal. H. A. Bakke. 1,725,695; Aug. 20.  
Meter structure. A. Callsen. 1,709,773; Apr. 16.  
Meter structure. P. MacGahan. Re17,244; Mar. 26.  
Meter switch. H. D. Winton. 1,720,706; July 16.  
Meter-testing block. H. P. Sparkes. 1,716,246; June 4.  
Metering alternating currents. W. Beusch. 1,727,858; Sept. 10.  
Metering boiler. H. C. Heaton. 1,721,482; July 16.  
Metering device for washing machines. J. Rocke. 1,705,735; Mar. 19.  
Metering device, Remote. G. G. Waite. 1,707,291; Apr. 2.  
Metering panel. H. J. L. Frank. 1,733,369; Oct. 29.  
Metering system. C. P. West. 1,732,823; Oct. 22.  
Metering system, Fluid-. L. E. Hackett. 1,711,676; May 7.  
Metering system, Remote. E. R. Evans. 1,709,613; Apr. 16.  
Metering system, Remote. G. G. Waite. 1,715,728; June 4.  
Metering system, Zone-. R. F. Stehlik. 1,738,931; Dec. 10.  
Meters, Apparatus for controlling the registration curve of electric. F. Kurz and R. Wilmeth. 1,727,509; Sept. 10.  
Meters, Controlling induction electricity. W. Beusch. 1,734,110; Nov. 5.  
Meters, Correcting temperature errors in electric. F. Kurz. 1,722,756; July 30.  
Meters, Correcting temperature errors in electric. J. S. Martin. 1,722,758; July 30.  
Meters, Protecting means for gas. W. G. Gribbe. 1,722,246; July 23.  
Meters, Rotor of mercury bath electricity. S. Z. de Ferranti. 1,703,727; Feb. 26.  
Methane, Chlorination of. K. Roka. 1,723,442; Aug. 6.  
Methanol, Process and catalyst for the synthesis of. H. H. Storch. 1,707,331; Apr. 2.  
Methylamine, Making. G. Barsky. 1,736,872; Nov. 26.  
Methyl chloride, Detection of. G. S. Lobdell. 1,710,933; Apr. 30.  
Methylol compounds of a urea, Production of condensation products of. M. Luther and C. Heuck. 1,699,245; Jan. 15.  
Mezuzah. N. L. Goldberg. Des. 79,494; Sept. 24.  
Mica-laying machine. L. T. Frederick. 1,700,403; Jan. 29.  
Mica plate, Making. L. T. Frederick. 1,702,896; Feb. 19.  
Mica, Separating. J. Bland. 1,716,758; June 11.  
Mica-separating machine. L. T. Frederick. 1,722,082; July 23.  
Microadjusting device. C. R. Butler. 1,727,098; Sept. 3.  
Micrometer caliper and depth gauge, Combined. J. H. Jacobs. 1,737,764; Dec. 3.  
Micrometer device. J. H. Robertson. 1,725,673; Aug. 20.  
Micrometer, Dial. H. L. Whittemore. 1,729,466; Sept. 24.

Micrometer gauge, Internal. J. Bath. 1,722,834; July 30.  
Micrometer sine protractor. L. H. Cormier. 1,740,072; Dec. 17.  
Microphone. B. F. Miessner. 1,722,851; July 30.  
Microphone. L. L. Nettleton. 1,704,098; Mar. 5.  
Microphone. A. Nymann. 1,702,410; Feb. 19.  
Microphone amplifier. P. N. Bossart. 1,702,428; Feb. 19.  
Microphone, Diffraction. L. De Forest. 1,726,289; Aug. 27.  
Microphone, Directive-reception. C. W. Horn. 1,732,722; Oct. 22.  
Microphone, Interferometer. V. K. Zworykin. 1,709,762; Apr. 16.  
Microphone mounting. W. H. Martin and M. E. Strieby. 1,735,905; Nov. 19.  
Microphone-switching system. J. E. Aiken. 1,696,897; Jan. 1.  
Microscope. H. Winkel. 1,713,412; May 14.  
Microscope, Thread-counting. O. Coradi. 1,726,651; Sept. 3.  
Microscopes and the like, Revolving nose piece for. R. A. Sloan. 1,729,690; Oct. 1.  
Mileage indicator. T. Taaffe and R. O. Welch. 1,741,255; Dec. 31.  
Milk and cream separator. G. H. Tansley. 1,733,563; Oct. 29.  
Milk and producing the same, Package of evaporated. G. A. Fisher. 1,719,760; July 2.  
Milk and similar substances or liquids cool while in transit, Keeping. E. A. Pearson. 1,731,539; Oct. 15.  
Milk-boiler inset. M. Blenz. 1,719,042; July 2.  
Milk cool in cans while in transit, Keeping. E. A. Pearson. 1,728,572; Sept. 17.  
Milk cooler. O. A. Peck. 1,714,235; May 21.  
Milk cooler. L. Rosenfeld. 1,697,696; Jan. 1.  
Milk cooler. L. Rosenfeld. 1,736,626; Nov. 19.  
Milk-dehydrating process, Cold-. E. Baker. 1,738,275; Dec. 3.  
Milk for churning, Device for ripening. O. B. Strange. 1,709,287; Apr. 16.  
Milk for infant feeding, Preparing. L. A. Rogers. 1,722,710; July 30.  
Milk pulverizer, Dry-. M. G. Severson. 1,713,719; May 21.  
Milk serum product, Producing a pulverized-. N. M. Kronberg. 1,721,867; July 23.  
Milk, skimmed milk, or buttermilk free of milk sugar, Preparation of. J. Pohlmann and J. R. F. Rassers. 1,732,026; Oct. 15.  
Milking apparatus. G. Budach. 1,727,501; Sept. 10.  
Milking apparatus. F. S. Frost. 1,731,045; Oct. 8.  
Milking machine. A. Blatz, jr. 1,698,987; Jan. 15.  
Milking machine. N. Dugas. 1,719,395; July 2.  
Milking machine. E. A. Englund. 1,702,468; Feb. 19.  
Milking machine. E. G. N. Salenius. 1,732,421; Oct. 22.  
Milking machine. W. A. Shippert. 1,715,720; June 4.  
Milking-machine pulsator. E. A. Forsberg. 1,711,525; May 7.  
Milking-machine pulsator. E. C. Oakes. 1,736,010; Nov. 19.  
Milking-machine teat cup. W. R. Cockburn. 1,700,025; Jan. 22.  
Milking machines, Liner for teat cups of. W. A. Horthy and F. G. Hodsdon. 1,705,292; Mar. 12.  
Milking machines, Teat cup for. W. A. Horthy and F. G. Hodsdon. 1,705,293; Mar. 12.  
Milking machines, Teat cup for. E. A. Johnston and F. G. Hodsdon. 1,712,798; May 14.  
Milking rest, Sanitary. F. F. Westbrook and M. P. Betten-court. 1,709,200; Apr. 16.  
Mill: See—  
Attrition mill. Laboratory mill.  
Ball mill. Metal-rolling mill.  
Cane mill. Mixing mill.  
Cement-grinding mill. Plate-rolling mill.  
Channel-rolling mill. Pulverizing mill.  
Coffee mill. Ring-roll mill.  
Comminuting mill. Roller mill.  
Crushing mill. Rolling mill.  
Disk-rolling mill. Rotary hammer mill.  
Four-high mill. Saw mill.  
Grinding mill. Sheet mill.  
Grinding or mixing mill. Single-roll wet mill.  
Hammer mill. Tube-forming mill.  
Homogenizing mill.  
Mill and grader, Fanning. H. W. Koistinen. 1,704,684; Mar. 5.  
Mill and grinding element therefor, Ore. D. H. Young. 1,720,024; July 9.  
Mill attachment, Roughing-. H. O. Wentz. 1,723,961; Aug. 6.  
Mill catcher, Rolling-. A. R. McArthur. 1,702,739; Feb. 19.  
Mill for fine grinding. J. R. Torrance. 1,713,487; May 14.  
Mill for homogenizing, emulsifying, and kindred operations. W. Eppenbach. 1,728,178; Sept. 17.  
Mill for hot rolling radially-tapered disks. O. M. Otte. 1,708,800; Apr. 9.  
Mill for the production of metal sheets or plates, Rolling. H. L. Davies. 1,711,559; May 7.  
Mill of the Pilger type, Rolling. E. Röber. 1,724,314; Aug. 13.  
Mill plate. O. Sheppard, jr. 1,705,379; Mar. 12.  
Mill roller. C. P. Brasington. 1,740,940; Dec. 24.  
Mill rolls, Adjusting means for rolling-. J. R. Coe. 1,741,405; Dec. 31.



- Mill shell liner, Tube-. F. R. Barratt. 1,741,604; Dec. 31.  
 Mill structure and operation, Hot-. W. R. Kneeland. 1,700,267; Jan. 29.  
 Milling and/or grinding machine. A. C. Hamey. 1,723,546; Aug. 6.  
 Milling cutter. R. P. Dewey. 1,739,667; Dec. 17.  
 Milling cutter. F. W. England. 1,728,264; Sept. 17.  
 Milling cutter. P. G. Hall. 1,717,380; June 18.  
 Milling cutter. C. G. Olson. 1,729,050; Sept. 24.  
 Milling cutter. J. M. Redinger. 1,702,132; Feb. 12.  
 Milling cutter. J. M. Redinger. 1,715,097; May 28.  
 Milling cutter, Sectional. T. B. Farrington. 1,713,273; May 14.  
 Milling cutters, Adjustable spacing collar for. J. B. Elfring. 1,729,286; Sept. 24.  
 Milling machine. F. C. Allen. Re17,392; Aug. 6.  
 Milling machine. W. D. Archea. 1,727,424; Sept. 10.  
 Milling machine. W. F. Greene. 1,705,218; Mar. 12.  
 Milling machine. G. Schwietzke. 1,697,372; Jan. 1.  
 Milling machine. G. D. Sundstrand. 1,697,698; Jan. 1.  
 Milling machine. G. D. Sundstrand. 1,734,308; Nov. 5.  
 Milling-machine attachment. W. Eisenberg. 1,719,601; July 2.  
 Milling machine, Drum-type. L. C. Cole. 1,700,309; Jan. 29.  
 Milling machine for engine connecting-rod straps. A. W. Waltemath. 1,721,579; July 23.  
 Milling-machine structure. F. A. Parsons. 1,706,587; Mar. 26.  
 Milling-machine transmission and control mechanism. F. A. Parsons. 1,718,067; June 18.  
 Milling machines, Coolant supply for. B. P. Graves. 1,738,646; Dec. 10.  
 Milling scraper plates and the like, Attachment for. F. Scherr, jr. 1,713,981; May 21.  
 Mills and feeding means therefor. I. W. Frank. 1,729,335; Sept. 24.  
 Mills, Apparatus for adjusting rolling. E. G. Budd and J. H. Hunt. 1,730,642; Oct. 8.  
 Mills, Balancing device for rolls in rolling. A. T. Keller. 1,727,122; Sept. 3.  
 Mills, Coupling box for rolling. P. G. Palmgren. 1,722,251; July 23.  
 Mine cage, Self-dumping. J. J. Collier. 1,716,030; June 4.  
 Mine motor, Trackless. W. H. Coburn and C. Kiernan. 1,733,526; Oct. 29.  
 Mineral aggregates, Producing compositions containing. C. R. Arnold. 1,703,864; Mar. 5.  
 Mineral feed and making same. V. R. Rupp. 1,712,404; May 7.  
 Mineral fibers, Manufacturing synthetic. M. Grossman. 1,730,609; Oct. 8.  
 Mineral oil distillation, Apparatus for. A. E. Pew, jr., and H. Thomas. 1,719,235; July 2.  
 Mineral oil, Distilling. A. E. Pew, jr., and H. Thomas. 1,714,811; May 28.  
 Minerals by flotation, Separation of. F. G. Moses, R. W. Hess, and R. L. Perkins. 1,739,369; Dec. 10.  
 Minerals or other materials, Apparatus for separating. B. E. Trottier. 1,729,913; Oct. 1.  
 Mines and other chambers requiring ventilation, System for cooling. W. H. Carrier. 1,717,005; June 11.  
 Mining and loading machine. E. S. McKinlay. 1,726,963; Sept. 3.  
 Mining and loading machine. E. C. Morgan. 1,704,918; Mar. 12.  
 Mining and loading machine, Combined coal. E. C. Morgan. 1,707,133; Mar. 26.  
 Mining and loading machine, Long-wall. E. C. Morgan. 1,710,801; Apr. 30.  
 Mining and loading machine, Long-wall. E. C. Morgan. 1,711,230; Apr. 30.  
 Mining and mining apparatus. E. C. Morgan. 1,704,866; Mar. 12.  
 Mining apparatus. J. H. Crawford. Re17,467; Oct. 22.  
 Mining apparatus. M. P. Holmes. 1,704,664-5; Mar. 5.  
 Mining apparatus. M. P. Holmes. 1,704,668; Mar. 5.  
 Mining apparatus. M. P. Holmes. 1,729,779; Oct. 1.  
 Mining apparatus. M. P. Holmes. 1,729,781; Oct. 1.  
 Mining apparatus. M. P. Holmes. 1,734,296; Nov. 5.  
 Mining apparatus. M. P. Holmes. 1,741,112; Dec. 24.  
 Mining apparatus. C. F. Osgood. 1,729,798; Oct. 1.  
 Mining apparatus. G. Rimmer and A. Y. Hoy. 1,704,674; Mar. 5.  
 Mining apparatus, Coal-. D. T. Fisher. 1,726,891; Sept. 3.  
 Mining apparatus, Coal. E. C. Morgan. 1,710,486; Apr. 23.  
 Mining apparatus, Explosionproof. M. P. Holmes. 1,720,364; July 9.  
 Mining bucket. G. C. Voit. 1,719,576; July 2.  
 Mining coal, Apparatus for. E. C. Morgan. 1,706,961; Mar. 26.  
 Mining coal, Apparatus for. E. C. Morgan. 1,735,583; Nov. 12.  
 Mining coal, Method and apparatus for. J. L. Schick. 1,712,471; May 7.  
 Mining machine. F. Cartledge. 1,734,938-40; Nov. 5.  
 Mining machine. C. E. Davis. 1,737,045; Nov. 26.  
 Mining machine. D. T. Fisher. 1,736,853; Nov. 26.  
 Mining machine. M. P. Holmes. 1,702,828; Feb. 19.  
 Mining machine. M. P. Holmes. 1,704,669-70; Mar. 5.  
 Mining machine. M. P. Holmes. 1,725,140-1; Aug. 20.  
 Mining machine. M. P. Holmes. 1,734,945-6; Nov. 5.  
 Mining machine. M. P. Holmes. 1,741,129; Dec. 24.  
 Mining machine. M. P. Holmes. 1,741,131; Dec. 24.  
 Mining machine. C. R. Hughes. 1,741,714; Dec. 31.  
 Mining machine. L. A. Maxson. 1,704,672; Mar. 5.  
 Mining machine. L. A. Maxson. 1,742,178; Dec. 31.  
 Mining machine. E. C. Morgan. 1,706,962; Mar. 26.  
 Mining machine. E. C. Morgan. 1,707,132; Mar. 26.  
 Mining machine. E. C. Morgan. 1,710,887; Apr. 30.  
 Mining machine. E. C. Morgan. 1,712,511; May 14.  
 Mining machine. C. B. Officer. 1,741,134; Dec. 24.  
 Mining machine. C. F. Osgood. 1,704,667; Mar. 5.  
 Mining machine. C. F. Osgood. 1,704,671; Mar. 5.  
 Mining machine. C. F. Osgood. 1,704,673; Mar. 5.  
 Mining machine. C. F. Osgood. 1,741,130; Dec. 24.  
 Mining machine. C. F. Osgood. 1,741,132-3; Dec. 24.  
 Mining machine. E. O'Toole. 1,737,327; Nov. 26.  
 Mining machine. C. A. Pratt. 1,702,571; Feb. 19.  
 Mining machine. T. E. Pray. 1,741,583; Dec. 31.  
 Mining machine. H. N. Wood. 1,703,807; Feb. 26.  
 Mining machine. C. W. Wyman. 1,704,233; Mar. 5.  
 Mining oil and the like. E. G. Sinclair. 1,697,788; Jan. 1.  
 Mining system. L. F. Crawford. 1,702,558; Feb. 19.  
 Mining, System of. W. M. Dake and R. A. Walter. 1,699,098; Jan. 15.  
 Minnow, Artificial. F. S. Quin. 1,739,258; Dec. 10.  
 Minnow for fishing, Artificial. H. Readman. 1,737,683; Dec. 3.  
 Minnow trap. F. De Roy. 1,731,191; Oct. 8.  
 Mirror. W. La Hodny. 1,698,307; Jan. 8.  
 Mirror. H. P. King. Des. 78,631; May 28.  
 Mirror. W. Peacock. 1,736,667; Nov. 19.  
 Mirror. V. C. Rodgers. 1,719,342; July 2.  
 Mirror, Automobile. A. S. Anzell. 1,703,704; Feb. 26.  
 Mirror, Automobile. J. Boysen. 1,710,040; Apr. 23.  
 Mirror bracket. W. R. Griffey. 1,728,931; Sept. 24.  
 Mirror bracket, Rear-view. A. S. Alexander. 1,719,821; July 9.  
 Mirror, Dental. T. N. Holden, jr. 1,722,748; July 30.  
 Mirror for automobiles. F. D. Carpenter. 1,703,059; Feb. 19.  
 Mirror for automobiles. E. F. Pawsat. 1,716,793; June 11.  
 Mirror for automobiles, Rear-view. W. La Hodny. 1,724,029; Aug. 13.  
 Mirror for automobiles, Rear-view. E. Porter. Re17,274; Apr. 16.  
 Mirror or similar article. W. M. Buttrick and R. P. Piperoux. Des. 79,014; July 23.  
 Mirror or similar article. W. M. Buttrick and R. P. Piperoux. Des. 79,016; July 23.  
 Mirror or similar article. J. M. Crucet. Des. 77,674; Feb. 12.  
 Mirror or similar article. P. T. Frankl. Des. 79,023; July 23.  
 Mirror or similar article. R. P. Piperoux. Des. 79,480; Sept. 24.  
 Mirror or similar article. R. Statella. Des. 79,394; Sept. 10.  
 Mirror, Rear-sight. W. H. Stadt and H. Muyskens. 1,717,072; June 11.  
 Mirror, Rear-view. J. W. Arnold. 1,733,391; Oct. 29.  
 Mirror, Rear-vision. W. J. Bell. 1,699,049; Jan. 15.  
 Mirror, Rear-vision. D. M. Solenberger and A. G. Jagel. 1,709,752; Apr. 16.  
 Mirror, Sawyer's log. A. M. Page. 1,700,511; Jan. 29.  
 Mirror, Shaving. J. A. Hoegger. Des. 78,519; May 14.  
 Mirror, Street-intersection traffic. H. A. Seume. 1,699,926; Jan. 22.  
 Mirror structure for purses, hand bags, and the like. H. A. Stanley. 1,738,802; Dec. 10.  
 Mirror support. J. F. Whitehead and F. W. Zink. 1,700,524; Jan. 29.  
 Mirror system, Trouble-light. R. Jeffrey. 1,723,863; Aug. 6.  
 Mirror, Tire. A. S. Alexander. 1,701,940; Feb. 12.  
 Mirror, Wrist. O. E. Gebauer. Des. 79,071; July 30.  
 Mirrors, Silvering and beveling small. B. F. Kelly. 1,724,204; Aug. 13.  
 Miter box. A. Kopecky. 1,704,747; Mar. 12.  
 Miter box. S. D. Pealer. 1,738,200; Dec. 3.  
 Miter boxes for corner beads and the like. N. M. Ludwig. 1,718,791; June 25.  
 Miter, Shoe-heel-cutting. C. L. Huntoon. 1,726,227; Aug. 27.  
 Mitering machine, Portable. W. Owen. 1,716,279; June 4.  
 Mitten. E. Walker. 1,714,648; May 28.  
 Mitten, Wash. P. K. Williams. 1,713,065; May 14.  
 Mixer: See—  
 Beverage mixer. High-speed mixer.  
 Concrete mixer. Orifice mixer.  
 Culinary mixer. Paint mixer.  
 Dough mixer. Pastry mixer.  
 Drink mixer. Plaster and mortar mixer.  
 Feed mixer. Plastic mixer.  
 Food mixer. Rotary mixer.  
 Fuel mixer. Thermostatically-controlled mixer.  
 Gas and air mixer.  
 Gas mixer.  
 Mixer. R. L. Cook. 1,702,931; Feb. 19.  
 Mixer. A. Crossman. 1,724,750; Aug. 13.  
 Mixer. G. S. P. de Béthune. 1,727,753; Sept. 10.  
 Mixer. C. W. Hottmann. 1,723,620; Aug. 6.  
 Mixer. O. O. Howard. 1,728,411; Sept. 17.  
 Mixer. F. D. Koerkle. 1,734,862; Nov. 5.  
 Mixer. L. Laing. 1,718,745; June 25.  
 Mixer and aerator, Combined. T. A. Killman. 1,730,219; Oct. 1.



- Mixer and auxiliary air-inlet device, Combined. C. Leach. 1,703,493; Feb. 26.
- Mixer and conveyer. P. Thomson. 1,731,953; Oct. 15.
- Mixer assembly. F. P. Scott. 1,720,355; July 9.
- Mixer connector, Foam-system. O. R. Erwin and W. D. Witter. 1,705,608; Mar. 19.
- Mixer for internal-combustion engines. J. L. Isonhart. 1,730,731; Oct. 8.
- Mixer for paving materials. F. E. Greene. 1,713,222; May 14.
- Mixer for plastics. E. S. Mason. 1,705,127; Mar. 12.
- Mixer for road materials. F. H. Cummer. 1,741,013; Dec. 24.
- Mixer timer. N. M. Rosendahl. 1,724,369; Aug. 13.
- Mixers and the like, Guard for meat. A. C. Van Hooydonk. 1,705,429; Mar. 12.
- Mixers, Combined automatic and manual control for drink. G. D. Ruetz. 1,697,515; Jan. 1.
- Mixing and blending apparatus. J. B. Howe. 1,733,225; Oct. 29.
- Mixing and conditioning machine, Putty. F. F. Hayes. 1,706,291; Mar. 19.
- Mixing and feeding pulverized fuel, Apparatus for. E. H. Elzemeyer and P. S. Knittel. 1,721,439; July 16.
- Mixing and grinding device. J. A. Michal. 1,711,154; Apr. 30.
- Mixing and spraying device, Liquid. W. Clauson. 1,704,913; Mar. 12.
- Mixing and straining liquids, Device for. B. Burvenick. 1,740,223; Dec. 17.
- Mixing apparatus. J. M. Brinkley. 1,708,493; Apr. 9.
- Mixing apparatus. G. C. Gilbert. 1,698,363; Jan. 8.
- Mixing apparatus. G. H. Haines. 1,720,360; July 9.
- Mixing apparatus. G. H. Haines. 1,721,553; July 23.
- Mixing apparatus. R. Head. 1,738,898; Dec. 10.
- Mixing apparatus. P. Lenart. 1,706,176; Mar. 19.
- Mixing apparatus. A. D. MacLellan. 1,738,440; Dec. 3.
- Mixing apparatus. C. L. Ripley. 1,707,669; Apr. 2.
- Mixing apparatus. G. A. Seeley. 1,734,747; Nov. 5.
- Mixing apparatus. H. W. York. 1,706,722; Mar. 26.
- Mixing apparatus and process. R. W. Shafor. 1,701,164; Feb. 5.
- Mixing, Apparatus for and process of. W. A. Gilchrist. 1,720,549; July 9.
- Mixing bin, Automatic. A. Allen. 1,720,112; July 9.
- Mixing, compacting, degassing, or grinding more or less viscid material, Apparatus for. A. Sonshagen and G. M. Powerud. 1,722,115; July 23.
- Mixing device. W. C. Brinton, Jr. 1,701,607; Feb. 12.
- Mixing device. F. L. Craddock. 1,703,099; Feb. 26.
- Mixing device. E. Gambon. 1,714,359; May 21.
- Mixing device. L. J. Harris. 1,720,361; July 9.
- Mixing device. C. W. Keller. 1,700,895; Feb. 5.
- Mixing device. J. D. Siddley. 1,732,820; Oct. 22.
- Mixing device. J. W. Smith. 1,720,245; July 9.
- Mixing device. J. W. Smith. 1,720,247; July 9.
- Mixing device for carburetors. J. B. Kessel. 1,717,509; June 18.
- Mixing device, Rotary. W. A. and A. L. Dean. 1,710,299; Apr. 23.
- Mixing device, Thermostatically-controlled. A. Murdoch, Jr. 1,724,504; Aug. 13.
- Mixing liquids in variable proportions, Device for. H. Kauwertz. 1,707,058; Mar. 26.
- Mixing long fibered materials with powdery substances, Method and apparatus for. K. Erdmann. 1,699,881; Jan. 15.
- Mixing machine. W. F. Dehuff. Re17,215; Feb. 12.
- Mixing machine. W. F. Dehuff. 1,733,945; Oct. 29.
- Mixing machine. J. F. Field. 1,739,066; Dec. 10.
- Mixing machine. F. E. Fowler. 1,731,129; Oct. 8.
- Mixing machine. F. P. Glosch. 1,707,852; Apr. 2.
- Mixing machine. B. Gould. 1,707,550; Apr. 2.
- Mixing machine. C. Nielsen. 1,737,609; Dec. 3.
- Mixing machine. C. Nielsen. 1,741,646; Dec. 31.
- Mixing machine. W. B. Ranney. 1,713,554; May 21.
- Mixing machine. N. Ranschoff. 1,703,543; Feb. 26.
- Mixing machine. J. T. Simpson. 1,706,417; Mar. 26.
- Mixing machine. S. Snyder. 1,724,808; Aug. 13.
- Mixing machine. T. C. Wentworth. 1,732,391; Oct. 22.
- Mixing machine. Candy. A., Jr., and J. A. Olsen. 1,697,365; Jan. 1.
- Mixing machine, Continuous. H. K. Wilder. 1,741,176; Dec. 31.
- Mixing materials. W. H. Stansbury. 1,724,687; Aug. 13.
- Mixing, Method for. F. L. Craddock. 1,719,800; July 2.
- Mixing mill. D. C. Heim. 1,739,149; Dec. 10.
- Mixing molasses with stock feed, Apparatus for. S. Snyder. 1,707,999; Apr. 9.
- Mixing tank. R. L. Vilas. 1,717,478; June 18.
- Mixing tank. J. A. White. 1,696,994; Jan. 1.
- Mixing tube. E. E. Sager. 1,737,336; Nov. 26.
- Mixture of chemicals suitable for the preparation of fire foam, Producing a dry. K. Schmidt. 1,739,094; Dec. 10.
- Modifying device, Impedance. B. F. Lewis. 1,702,305; Feb. 19.
- Modifying the shape of metallic tubes, Method of and apparatus for. G. G. Powers. 1,712,118; May 7.
- Modulating carrier wave by photo-electric currents. O. Schriever. 1,738,397; Dec. 3.
- Modulation system. C. A. Culver. 1,710,015; Apr. 23.
- Modulation system. R. L. Davis. 1,730,878; Oct. 8.
- Modulation, System of. J. E. Parker. 1,724,960; Aug. 20.
- Moistener. D. P. Fletcher. 1,705,609; Mar. 19.
- Moistener. H. Hellweg. 1,734,293; Nov. 5.
- Moistener for envelope sealers, etc. F. E. Poor. 1,714,620; May 28.
- Moistener for gummed-tape machines. W. A. Uttz, sr. 1,716,805; June 11.
- Moistener for stokers, Coal. N. M. Lower. 1,698,310; Jan. 8.
- Moistening device. T. R. Gautier. 1,732,638-9; Oct. 22.
- Moistening device. W. A. Uttz, sr. 1,730,795; Oct. 8.
- Moistening paper, Apparatus for. W. A. Lorenz. 1,698,818; Jan. 15.
- Moistening the tops of welts of stockings. C. T. Griffith and J. L. Fagan. 1,727,203; Sept. 3.
- Moisture content in aggregate, Determining the. C. S. Johnson. 1,712,621; May 14.
- Moisture content of paper or other material, Controlling the. H. L. Bone. 1,722,655; July 30.
- Moisture content of pulp, Device for controlling the. G. E. Mayo. 1,726,749; Sept. 3.
- Moisture indication and control. G. S. Witham, Jr. 1,741,266; Dec. 31.
- Moistureproof material. W. H. Charch and K. E. Prindle. 1,737,187; Nov. 26.
- Moistureproofing packages and the like, Apparatus for. H. G. Eckstein, Jr. 1,720,783; July 16.
- Moisture tester. M. L. Mueller. 1,736,505; Nov. 19.
- Moisture trap for automobile crank cases. E. T. Barron. 1,729,978; Oct. 1.
- Molasses gate. P. W. Reitinger. 1,698,998; Jan. 15.
- Mold: See—
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|----------------------|------------------------|
| Block mold.          | Foundry mold.          |
| Box mold.            | Glass mold.            |
| Butter mold.         | Ice-cream mold.        |
| Candy mold.          | Ingot mold.            |
| Ceiling mold.        | Macaroni mold.         |
| Concrete-block mold. | Pipe mold.             |
| Concrete mold.       | Retreading mold.       |
| Cornice mold.        | Sectional mold.        |
| Crock-making mold.   | Tire mold.             |
| Culinary mold.       | Tire-vulcanizing mold. |
| Cutter mold.         | Vulcanizing mold.      |
| Cylinder mold.       |                        |
- Mold. W. A. Bartley and E. O. Friedman. 1,698,836; Jan. 15.
- Mold. J. F. Berry. 1,705,354; Mar. 12.
- Mold. L. R. Davis. 1,705,905; Mar. 19.
- Mold. J. J. Dimeo. 1,722,357; July 30.
- Mold. A. E. Elliott. 1,702,253; Feb. 19.
- Mold. M. Guyot. 1,703,075; Feb. 19.
- Mold. T. Lewin. 1,701,721; Feb. 12.
- Mold. A. B. Norton. 1,703,082; Feb. 19.
- Mold. C. D. Pettis. 1,707,492; Apr. 2.
- Mold. H. D. Rindsberg. 1,704,018; Mar. 5.
- Mold. H. M. Williams. 1,712,946; May 14.
- Mold-aligning means. J. Last. 1,717,109; June 11.
- Mold and core. M. Guyot. 1,727,343; Sept. 10.
- Mold and dispenser device, Meat patty. H. C. Kaster. 1,700,765; Feb. 5.
- Mold and liner for linotype machines. E. W. Johnson. 1,736,536; Nov. 19.
- Mold and making the same. J. R. Jones. 1,712,438; May 7.
- Mold and method of casting aluminum. D. J. Campbell. 1,717,916; June 18.
- Mold and method of ejecting pulp articles therefrom. E. P. Kennedy. 1,701,238; Feb. 5.
- Moldboard, Adjustable revolving. C. Hill. 1,736,442; Nov. 19.
- Moldboard attachment. L. R. Miller. 1,740,519; Dec. 24.
- Moldboard balance. W. M. Taylor. 1,697,029; Jan. 1.
- Moldboard for road-grading machines. O. P. Mahoney and J. R. Key. 1,736,352; Nov. 19.
- Moldboard for road-making machines. W. M. Taylor. 1,712,853; May 14.
- Mold box. J. H. Besser. 1,706,647; Mar. 26.
- Mold-breaking device. C. S. McChesney. 1,701,859; Feb. 12.
- Mold carrier. F. E. McCabe. 1,734,175; Nov. 5.
- Mold charges, Apparatus for producing. W. J. Miller. 1,738,479; Dec. 3.
- Mold charges of molten glass, Apparatus for producing. W. J. Miller. 1,738,499; Dec. 3.
- Mold coating. H. S. Lee. 1,735,120; Nov. 12.
- Mold construction. W. Underwood. 1,700,522; Jan. 29.
- Mold-conveying and pottery-fabricating mechanism. W. J. Miller. 1,697,993; Jan. 8.
- Mold flask. F. E. McCabe. 1,734,300; Nov. 5.
- Mold for aluminothermic welding of rails. H. Schultz. 1,732,382; Oct. 22.
- Mold for battery nuts. J. C. Vives. 1,716,714; June 11.
- Mold for casting bimetal products. W. J. Green. 1,723,345; Aug. 6.
- Mold for casting metals. M. Guyot. 1,729,643; Oct. 1.
- Mold for casting organ-pipe toes. D. J. Griffin. 1,697,762; Jan. 1.
- Mold for casting rail crossings. W. Brinton. 1,721,687; July 23.
- Mold for casting stereotype plates. C. Winkler. 1,720,585; July 9.
- Mold for castings, Vented. F. H. Morehead. 1,729,005; Sept. 24.
- Mold for centrifugal casting. G. A. Reinhardt. 1,722,354; July 30.
- Mold for centrifugal casting machine, water-cooled. H. R. Farnsworth. 1,726,698; Sept. 3.



- Mold for forming concrete slabs. G. E. Nagel. 1,705,201; Mar. 12.
- Mold for forming glass vessels. H. J. Raynes and F. J. Denning. 1,738,964; Dec. 10.
- Mold for forming glassware. C. W. Schwenzfeier. 1,729,863; Sept. 24.
- Mold for freezing foods. W. von Elm. Des. 77,379; Jan. 1.
- Mold for hollow typographic elements. M. C. Indahl. 1,702,902; Feb. 19.
- Mold for making frozen confections. H. E. Crumlick. 1,697,051; Jan. 1.
- Mold for manufacturing hair clamps. B. Laukamp. 1,733,739; Oct. 29.
- Mold for multiple rings. M. A. Mikesch. 1,727,312; Sept. 3.
- Mold-forming apparatus. W. H. Millspaugh. 1,720,741; July 16.
- Mold-handling mechanism. F. S. Kochendorfer and W. N. Thode. 1,722,380; July 30.
- Mold jacket. E. A. Parker. 1,733,387; Oct. 29.
- Mold-making machine. F. E. McCabe. 1,734,177; Nov. 5.
- Mold-making machine, Automatically-operating. W. H. Nicholls. 1,707,411; Apr. 2.
- Mold-making machine, Earth-. E. G. Carr. 1,741,825; Dec. 31.
- Mold mechanism for glass-working machines. R. M. Searle. 1,727,221; Sept. 3.
- Mold-ramming machine. S. C. Bliss. 1,719,529; July 2.
- Mold shake-out apparatus. F. E. McCabe. 1,734,176; Nov. 5.
- Mold sides, Removing detachable. E. Burke. 1,736,249; Nov. 19.
- Moldable composition and making same. H. A. Winkelmann. 1,709,241; Apr. 16.
- Moldable matter, working. J. E. Boynton. 1,741,812; Dec. 31.
- Molded article. F. S. Kochendorfer. 1,720,681; July 16.
- Molded articles. H. M. Eaton. 1,721,549; July 23.
- Molded artificial masses by removing the liquid medium from emulsion colloids, Manufacture of. K. Ripper. 1,701,986; Feb. 12.
- Molded knob. W. A. Schmittgen. 1,728,218; Sept. 17.
- Molded masses from blood, Production of. F. Homberg and M. Landecker. 1,732,016; Oct. 15.
- Molded masses, Production of. F. Homberg and M. Landecker. 1,732,015; Oct. 15.
- Molder. L. T. Medholdt. 1,698,412; Jan. 8.
- Molder and divider. Combined dough. G. A. Vaughn. 1,722,610; July 30.
- Molders and the like, Feed mechanism for. L. E. Blood. 1,704,677; Mar. 5.
- Molder's flask. G. L. Smith. 1,710,325; Apr. 23.
- Molder's flask. J. F. Stanley. 1,707,179; Mar. 26.
- Molding. C. W. Becker. 1,705,746; Mar. 19.
- Molding. J. D. Bolender. 1,739,943; Dec. 17.
- Molding. J. D. Bolender and E. R. Creamer. 1,706,138; Mar. 19.
- Molding. D. J. Campbell. 1,717,914; June 18.
- Molding. H. G. Kellogg. 1,724,601; Aug. 13.
- Molding. A. W. Nikander. 1,701,794; Feb. 12.
- Molding. C. E. Turrell. 1,707,585; Apr. 2.
- Molding and article produced from plastic material in imitation of onyx, agate, marble, and the like. H. N. Copeland. 1,735,674; Nov. 12.
- Molding and price-card holder for store shelves, Combined finished. E. P. Fuessler. 1,726,146; Aug. 27.
- Molding apparatus. J. O. Goodwin and C. W. Leguillon. 1,731,006; Oct. 8.
- Molding apparatus. H. H. C. Grondahl. 1,702,050-1; Feb. 12.
- Molding apparatus. F. V. Maloon. 1,708,447; Apr. 9.
- Molding apparatus. A. L. Nelson. 1,716,792; June 11.
- Molding apparatus, Metal. C. H. Lyne. 1,706,305; Mar. 19.
- Molding articles from pulp. B. R. Williamson. 1,725,040; Aug. 20.
- Molding building blocks, Apparatus for. B. F. P. Poore. 1,699,017; Jan. 15.
- Molding building blocks, Method of and apparatus for. S. Berry. 1,698,120; Jan. 8.
- Molding cement slabs. R. O. Smith. 1,708,555; Apr. 9.
- Molding, Cementitious. N. C. Johnson. Re17,476; Oct. 29.
- Molding ceramic materials. H. L. Crowley. 1,699,502; Jan. 15.
- Molding combustible eggettes, Device for. G. Kleinberg. 1,715,297; May 28.
- Molding composition. F. G. Brotz. 1,711,136; Apr. 30.
- Molding composition and making same, Plasticized. H. M. Weber. 1,720,406; July 9.
- Molding composition, Organic. S. M. Hull. 1,711,025; Apr. 30.
- Molding, Decorative. D. Green. Des. 78,884; July 2.
- Molding faced concrete units. W. R. Tucker. 1,706,865; Mar. 26.
- Molding faced concrete units. W. R. Tucker. 1,716,094; June 4.
- Molding flask. J. H. Warner. 1,732,199; Oct. 15.
- Molding for automobile bodies and the like. L. L. Williams. 1,714,478-9; May 21.
- Molding for roofs, Edge. A. M. Guy. 1,723,158; Aug. 6.
- Molding, Forming fashioned. H. G. Kellogg. 1,710,262; Apr. 23.
- Molding ingots, Apparatus for. E. Gathmann. 1,719,542; July 2.
- Molding inner tubes. M. J. Blake. 1,727,391; Sept. 10.
- Molding machine. E. O. Beardsley and W. F. Piper. 1,717,651-2; June 18.
- Molding machine. M. L. Dodge and H. A. Jordan. 1,709,842; Apr. 23.
- Molding machine. F. L. Feltes. 1,722,414; July 30.
- Molding machine. E. Harmes. 1,726,023-25; Aug. 27.
- Molding machine. C. M. Henderson. 1,714,781; May 28.
- Molding machine. T. E. McFall. 1,740,775; Dec. 24.
- Molding machine. W. C. Patterson. 1,717,245; June 11.
- Molding machine. G. F. Pinsuti. 1,708,106; Apr. 9.
- Molding machine. J. T. Ramsden. 1,717,119; June 11.
- Molding machine. J. T. Ramsden. 1,741,116; Dec. 24.
- Molding machine. J. A. Rathbone. 1,697,022; Jan. 1.
- Molding machine. F. R. Wallace. 1,736,514; Nov. 19.
- Molding machine. H. H. Wanders. 1,711,978; May 7.
- Molding machine. J. R. Wood. 1,701,598; Feb. 12.
- Molding machine. J. R. Wood. 1,725,839; Aug. 27.
- Molding machine and valve therefor. E. Harmes. 1,726,022; Aug. 27.
- Molding machine, Bun and finger-roll. C. O. Wescott. 1,726,969; Sept. 3.
- Molding-machine clamp. J. T. Ramsden. 1,736,363; Nov. 19.
- Molding machine, Core-. V. H. Curren. 1,741,503; Dec. 31.
- Molding machine, Kamaboko. C. Kajiwara. 1,741,023; Dec. 24.
- Molding machine or apparatus. R. L. Redpath and S. C. Bliss. 1,704,342; Mar. 5.
- Molding machine, Pneumatic jar-ramming. W. Lewis. 1,730,328; Oct. 1.
- Molding machine, Pulp-. M. P. Chaplin. 1,730,450; Oct. 8.
- Molding machines, Control for jarring. D. J. Campbell. 1,740,766; Dec. 24.
- Molding machines, Strike-off mechanism for. J. T. Ramsden. 1,736,365; Nov. 19.
- Molding method and apparatus. G. E. Foerstner. 1,740,082; Dec. 17.
- Molding mixture. L. M. Hull. 1,708,576; Apr. 9.
- Molding mixture. C. A. Nash. 1,721,742; July 23.
- Molding mixture. L. V. Redman. 1,732,533; Oct. 22.
- Molding mixture and making same. A. J. Weith and O. Holzman. 1,720,192; July 9.
- Molding mixture and making the same. V. H. Turkington. 1,728,378; Sept. 17.
- Molding pipe, Apparatus and method for. W. Reynolds. 1,732,616; Oct. 22.
- Molding plastic material, Apparatus for and process of. W. Apfelbaum. 1,731,240; Oct. 15.
- Molding process, Gear-. E. G. Danielson. 1,719,290; July 2.
- Molding sand, Apparatus for preparing. W. Fisher. 1,713,869; May 21.
- Molding sand, Preparing. G. F. Royer. 1,703,956; Mar. 5.
- Molding scale arms. A. P. Hopkins. 1,697,119; Jan. 1.
- Molding solid articles from plastic material, Apparatus for centrifugally. R. Williams. 1,703,024; Feb. 19.
- Molding synthetic resins. F. H. Bengel and R. R. Titus. 1,735,668; Nov. 12.
- Molding system. F. E. McCabe. 1,734,174; Nov. 5.
- Molding, Trim. C. O. McBride. 1,701,415; Feb. 5.
- Molding units, Apparatus relating to. J. D. Smith. 1,720,611; July 9.
- Molding vault lids. H. S. Schopf. 1,701,014; Feb. 5.
- Moldings, Device for holding. R. G. Dishman. 1,711,342; Apr. 30.
- Molds for inlays and crowns, Apparatus for forming. F. S. Meyer. 1,715,465; June 4.
- Molds for tires, tubes, and the like, Apparatus for handling heated. W. L. Fairchild. 1,699,102; Jan. 15.
- Molds, Hot top for. M. R. Trembour. 1,696,986; Jan. 1.
- Molds, Hot top for ingot. H. L. Coxey. 1,741,615; Dec. 31.
- Molds, Making ingot. E. Gathmann. 1,719,544; July 2.
- Molds, Parting material for. C. P. Stamm. 1,698,972; Jan. 15.
- Molds, Reconditioning metal. W. M. Martin and C. N. Church. 1,717,720; June 18.
- Molds, Shrink-head casing for ingot. E. Gathmann. 1,739,222; Dec. 10.
- Mole trap. C. A. Wyman. 1,729,976; Oct. 1.
- Molten slag, Granulating. F. W. E. Spies. 1,699,575; Jan. 22.
- Molten solids, Apparatus for flaking. J. C. Boertlein. 1,740,064; Dec. 17.
- Molybdenum phosphotungstate compounds. P. Rabe, B. Wenk, and E. Hartmann. 1,731,081; Oct. 8.
- Money box. H. Glass. 1,721,388; July 16.
- Monkey wrench. E. J. Evans. 1,728,282; Sept. 17.
- Monkey wrench. R. Hoppner. 1,721,118; July 16.
- Monorail control. D. C. Klausmeyer. 1,708,420; Apr. 9.
- Monorail dyestuffs. E. Reber and J. Spieler. 1,731,150; Oct. 8.
- Monorail, Duplex. H. M. Dobbins. 1,697,636; Jan. 1.
- Monument. C. C. Crossley. 1,710,014; Apr. 23.
- Monument. H. C. Lampe. Des. 79,316; Aug. 27.
- Mop. C. T. Adams. 1,702,885; Feb. 19.
- Mop. J. C. Anderregg. 1,698,148; Jan. 8.
- Mop. C. V. Anderson. 1,720,025; July 9.
- Mop. J. I. Anderson. 1,714,291; May 21.
- Mop. P. Brown. 1,715,029; May 28.
- Mop. G. Burlat. 1,713,374; May 14.
- Mop. C. A. Channell. 1,708,052; Apr. 9.



Mop. W. L. Evans. 1,733,339; Oct. 29.  
Mop. U. J. Ewing. 1,737,366; Nov. 26.  
Mop. J. W. Gibson. 1,702,825; Feb. 19.  
Mop. J. H. Griffin. 1,718,137; June 18.  
Mop. J. W. Hunt. 1,716,697; June 11.  
Mop. M. P. Janisch. 1,730,369; Oct. 8.  
Mop. A. F. Justis. 1,709,622; Apr. 16.  
Mop. N. C. Leidgen. 1,700,136; Jan. 29.  
Mop. R. Maeda. 1,701,686; Feb. 12.  
Mop. T. A. Morris. 1,711,242; Apr. 30.  
Mop. H. J. Ostdiek and M. E. Hanke. 1,736,798; Nov. 26.  
Mop. J. F. Palmer. 1,720,344; July 9.  
Mop. E. Phipps. 1,724,308; Aug. 13.  
Mop. E. B. Poggensee. 1,697,476; Jan. 1.  
Mop. S. L. Topfritz. 1,701,167; Feb. 5.  
Mop and polisher. Dust. A. Charney. 1,711,830; May 7.  
Mop and washer head, Fountain. L. Hemple. 1,731,339; Oct. 15.  
Mop and wringer, Combined. W. A. Coderre. 1,727,864; Sept. 10.  
Mop and wringer combined. H. Hertzberg. 1,735,281; Nov. 12.  
Mop and wringer, Combined. G. I. Hillyard. 1,725,582; Aug. 20.  
Mop and wringer, Combined. M. C. Lowrey. 1,733,418; Oct. 29.  
Mop and wringer, Combined. A. Yancey. 1,739,704; Dec. 17.  
Mop construction. J. H. Postel. 1,735,358; Nov. 12.  
Mop, Dry hand. D. McDonald. 1,710,099; Apr. 23.  
Mop, Dust. W. J. Barber. 1,706,019; Mar. 19.  
Mop, Floor. A. D. Waters. 1,709,331; Apr. 16.  
Mop, Fountain. E. Wertz. 1,736,236; Nov. 19.  
Mop handle, Roofer's. R. E. Callen. 1,703,292; Feb. 26.  
Mop head. C. M. Huguley. 1,726,668; Sept. 3.  
Mop-making machine. A. Van Veen. 1,719,093; July 2.  
Mop-pad-making machine, Automatic. C. A. Channell. 1,730,968; Oct. 8.  
Mop, Power. H. J. Wertheimer. 1,715,632; June 4.  
Mop, Universal. H. Hertzberg. 1,735,278; Nov. 12.  
Mop, Wet. H. Hertzberg. 1,735,279; Nov. 12.  
Mop-wiring machine. L. F. Klipstein and J. U. Barr. 1,707,165; Mar. 26.  
Mop with wringer attachment. H. Hertzberg. 1,735,280; Nov. 12.  
Mop, Wringer. W. J. Barber. 1,709,929; Apr. 23.  
Mop, Wringer. M. C. Newton and J. A. Gremling. 1,717,997; June 18.  
Mop wringer. S. Schulman. 1,725,213; Aug. 20.  
Mopstick head. J. W. Wohlbier. 1,723,638; Aug. 6.  
Mortar mixer. J. J. King. 1,727,992; Sept. 10.  
Mortise deadlock. F. E. Best and F. Powell. 1,739,629; Dec. 17.  
Mortise gauge. J. F. Meyer. 1,740,473; Dec. 24.  
Mortise knob lock. F. E. Best and F. Powell. 1,707,215; Apr. 2.  
Mortiser. R. S. Brown. 1,706,650; Mar. 26.  
Mortising machine. R. L. Carter. 1,738,227; Dec. 3.  
Mortising machine. O. G. Edmond. 1,723,338; Aug. 6.  
Mortising machine. M. Skolnik. 1,698,827; Jan. 15.  
Mortising machine. F. W. Wappat. 1,718,324; June 25.  
Mortising machine, Chain. C. D. McArthur. 1,703,941; Mar. 5.  
Mosquito guard. J. B. Powers. 1,705,782; Mar. 19.  
Moth chaser, All-cedar. J. I. Shinde. 1,724,781; Aug. 13.  
Moth eliminator. W. Newsom. 1,741,063; Dec. 24.  
Mothproof article and preparing it. W. Lommel, H. Münzel, H. Stötter, and B. Wenk. 1,734,682; Nov. 5.  
Motion-controlling device. E. W. R. Klenow. 1,739,906; Dec. 17.  
Motion-equalizing device. G. E. Cassel. 1,700,881; Feb. 5.  
Motion take-up and centering installation, Lost. W. B. Timms. 1,729,655; Oct. 1.  
Motion to bands or webs, Mechanism for imparting intermittent. G. Spiess. 1,737,204; Nov. 26.  
Motion-translating mechanism. J. T. Scully. 1,721,093; July 16.  
Motion-transmitting device for automobiles or the like. T. A. T. Rydberg. 1,700,078; Jan. 22.  
Motion-transmitting mechanism. D. R. Scholes. 1,740,627; Dec. 24.  
Motive-power device. J. F. Leahy. 1,713,343; May 14.  
Motometer, Lighting. P. D. Yankoff. 1,708,347; Apr. 9.  
**Motor: See—**  
Air motor.  
Alternating-current motor.  
Asynchronous motor.  
Aviation motor.  
Chamber motor.  
Commutator motor.  
Cradle motor.  
Current motor.  
Distortion motor.  
Double-acting motor.  
Drilling motor.  
Driving motor.  
Electric motor.  
Fan motor.  
Fluid motor.  
Fluid-pressure motor.  
Fluid-pressure-operated motor.  
Gravity motor.  
Hydraulic motor.  
Hydrocarbon motor.  
Induction motor.  
Internal-combustion motor.  
Loud speaker motor.  
Magnetic motor.  
Marine motor.  
Mechanical motor.  
Meter motor.  
Mine motor.  
Oil motor.  
Outboard motor.  
Percussive motor.  
Piston motor.  
Pressure-fluid motor.  
Pressure motor.  
Reciprocating motor.

**Motor: See—**  
Relay motor.  
Repeater motor.  
Reversible motor.  
Single-phase motor.  
Spring motor.  
Steam motor.  
Stern motor.  
Synchronous motor.  
Valveless motor.  
Vibrating motor.  
Wave and tide motor.  
Wind motor.  
Motor. B. Ames. 1,737,820; Dec. 3.  
Motor. G. W. Burrow. 1,721,855; July 23.  
Motor. G. H. Gilman. 1,703,839; Feb. 26.  
Motor. A. F. Godefroy. 1,719,761; July 2.  
Motor. E. F. H. Hendricks. 1,741,460; Dec. 31.  
Motor. J. Jaffe. 1,704,254; Mar. 5.  
Motor. P. Marchetti. Re17,428; Sept. 10.  
Motor. A. E. Winckler. 1,716,020; June 4.  
Motor and motor switch for flashers and the like. S. H. Sharpsteen. 1,714,321; May 21.  
Motor and operating the same, Synchronous. J. K. Kostko. 1,730,218; Oct. 1.  
Motor and transmission unit. P. Invernizzi. 1,732,405; Oct. 22.  
Motor apparatus and operation, Synchronous-induction. A. Doswald. 1,723,333; Aug. 6.  
Motor base, Sliding. W. D. Collins and E. Widerborg. 1,731,294; Oct. 15.  
Motor commutators, Short-circuiting device for. E. P. Larsh. 1,735,579; Nov. 12.  
Motor compressor unit. H. E. Crane. 1,704,655; Mar. 5.  
Motor construction and regulating means therefor. E. E. Kleinschmidt. 1,732,367; Oct. 22.  
Motor control. E. R. Carichoff and B. W. Jones. 1,720,623; July 9.  
Motor-control device. C. C. Parrish. 1,713,916; May 21.  
Motor control, Electric. W. B. Tunstall and H. H. Wright. 1,714,576; May 28.  
Motor-control mechanism. E. J. Carroll. 1,709,059; Apr. 16.  
Motor-control mechanism. L. P. Hutt. 1,717,844; June 18.  
Motor control, Multispeed. C. A. Kelsey. 1,719,889; July 9.  
Motor-control system. E. M. Bouton. 1,736,481; Nov. 19.  
Motor-control system. E. R. Carichoff and B. W. Jones. 1,720,624; July 9.  
Motor-control system. E. M. Claytor. 1,697,163; Jan. 1.  
Motor-control system. C. S. Dauler. 1,731,373; Oct. 15.  
Motor-control system. H. Haehle and S. Kraynick. 1,713,232; June 25.  
Motor-control system. A. L. Harvey. 1,705,728; Mar. 19.  
Motor-control system. E. P. Hill. 1,736,443; Nov. 19.  
Motor-control system. J. A. Jackson. 1,708,887; Apr. 9.  
Motor-control system. F. E. Lenehan. 1,715,663; June 4.  
Motor-control system. F. E. Lewis. 1,725,090; Aug. 20.  
Motor-control system. P. McShane. 1,739,174; Dec. 10.  
Motor-control system. R. J. Wensley. 1,729,907; Oct. 1.  
Motor-control system. R. J. Wensley and M. J. Wohlgenuth. 1,739,109; Dec. 10.  
Motor-control system. H. A. Winne. 1,698,288; Jan. 8.  
Motor-control system. M. J. Wohlgenuth and D. Hall. 1,707,293; Apr. 2.  
Motor-control system, Automatic. C. Schiebeler. 1,719,855; July 9.  
Motor-control system, Electric. A. H. Jackson. 1,720,189; July 9.  
Motor-control system, Induction. W. Weiler. 1,717,290; June 11.  
Motor-control system, Induction. W. Weiler. 1,719,917; July 9.  
Motor control, System of. J. Eaton. 1,724,830; Aug. 13.  
Motor control, System of. R. D. Given and W. J. Pool. 1,699,106; Jan. 15.  
Motor control, System of. B. W. Jones. 1,703,487; Feb. 26.  
Motor control, System of. B. W. Jones. 1,720,555; July 9.  
Motor-control system, Reversing. R. N. Thomas and G. H. Dorgolch. 1,698,325; Jan. 8.  
Motor-control system, Series. H. D. James. 1,724,404; Aug. 13.  
Motor-control system, Step-back. B. W. Jones. 1,717,219; June 11.  
Motor-control system, Synchronous. H. E. Fox. 1,724,650; Aug. 13.  
Motor controller. C. T. Evans. 1,727,872; Sept. 10.  
Motor controller. C. T. Evans. 1,741,762; Dec. 31.  
Motor controller. P. B. Harwood. 1,736,401; Nov. 19.  
Motor controller. R. G. Lockett. 1,726,674; Sept. 3.  
Motor controller. N. L. Mortensen. 1,713,777; May 21.  
Motor controller. N. L. Mortensen. 1,715,377; June 4.  
Motor controller. C. F. Scott. 1,734,919; Nov. 5.  
Motor controller. E. W. Seeger. 1,738,155; Dec. 3.  
Motor controller. E. W. Seeger. 1,739,330; Dec. 10.  
Motor-controlling apparatus. N. E. Baker. 1,708,114; Apr. 9.  
Motor controlling device. C. R. Kelty. 1,741,721; Dec. 31.  
Motor-controlling means. O. Hove. 1,733,062; Oct. 22.  
Motor-controlling mechanism. L. W. Melcher. 1,731,389; Oct. 15.  
Motor cut-out, Belt-operated. D. G. Dawkins and G. H. Bowlus. 1,713,171; May 14.  
Motor drive, Electric. C. Froesch. 1,728,236; Sept. 17.  
Motor drive for lathes. E. J. Hornberger. 1,708,672; Apr. 9.  
Motor-driven spindle, High-speed. E. Bronnert. 1,699,583; Jan. 22.



- Motor for windshield wipers. W. M. Moxley. 1,709,682; Apr. 16.
- Motor frame. F. J. Dultmeier. 1,727,869; Sept. 10.
- Motor-generator starting unit for tractors, Combined. R. B. Otwell. 1,726,760; Sept. 3.
- Motor lorry and other road or rail vehicle for conveying goods. F. J. Mundy and C. Solomon. 1,722,106; July 23.
- Motor machine, Peripheral. P. L. Crowe. 1,701,443; Feb. 5.
- Motor meter. G. Vlastis. 1,717,128; June 11.
- Motor meter, Alternating-current. A. R. Rutter. 1,729,402; Sept. 24.
- Motor mounting. E. Q. Bangs and W. Ernst. 1,702,716; Feb. 19.
- Motor mounting. C. R. Short. 1,701,394; Feb. 5.
- Motor mounting, Synchronous. R. K. Lee. 1,723,430; Aug. 6.
- Motor-oil-change indicator. C. R. Baker. 1,703,332; Feb. 26.
- Motor or the like, Alternating-current induction. O. A. Ross. 1,737,128; Nov. 26.
- Motor, particularly for traction purposes, High-power single-phase commutator. F. Prantl. 1,697,138; Jan. 1.
- Motor-propelling unit for motor vehicles. J. Gérin. 1,702,865; Feb. 19.
- Motor protector. A. Arutunoff. 1,701,468; Feb. 5.
- Motor regulation. N. O. Lindstrom, and C. F. E. Olofson. 1,702,352; Feb. 19.
- Motor speed control, Electric. A. E. Zoller and C. L. Fulghum. 1,730,797; Oct. 8.
- Motor starters, Hand controller for. J. M. Clinger. 1,703,709; Feb. 26.
- Motor-starting switch. H. D. James and C. H. Hodgkins. 1,709,725; Apr. 16.
- Motor-starting switch. H. K. Krantz. 1,726,233; Aug. 27.
- Motor staters, Making electric. H. P. Kanaky. 1,711,414; Apr. 30.
- Motor surfing apparatus. C. O. Johnson. 1,712,620; May 14.
- Motor suspension. C. Bethel. 1,709,704; Apr. 16.
- Motor suspension, Yielding. F. M. Holden. Re17,474; Oct. 29.
- Motor system, Pneumatic door-. L. P. Hynes. 1,722,920; July 30.
- Motor system, Single-phase. J. D. Nies. 1,728,439; Sept. 17.
- Motor tachometer organization, Outboard-. G. W. Harry. 1,738,772; Dec. 10.
- Motor unit for toy locomotives. H. C. Ives. 1,710,702; Apr. 30.
- Motor with attachments therefor, Household. J. E. Rogers. 1,734,500; Nov. 5.
- Motor with centrifugal clutch, Electric gearing. W. R. Uggla and A. G. F. Wallgren. 1,708,000; Apr. 9.
- Motor with movable magnetic bridges, Induction. C. E. Johnson. 1,740,599; Dec. 24.
- Motor with overhead conductor and roller gear, Electric street car. K. Stejskal. 1,733,283; Oct. 29.
- Motor with sleeve valve. C. Schaeffer. 1,718,082; June 18.
- Motors, Anticavitation plate for outboard. D. W. King and A. L. Lockwood. 1,734,911; Nov. 5.
- Motors, Commutator short-circuiting device for electric. E. C. Ballman. 1,724,547; Aug. 13.
- Motors, Control of induction. H. Maxwell. 1,698,315; Jan. 8.
- Motors, Controlling reciprocating. C. S. Weyandt. 1,723,830; Aug. 6.
- Motors, Device for protecting the working of three-phase. G. Ficken. 1,715,699; June 4.
- Motors, Oil rectifying apparatus for internal-combustion. W. B. Clifford. 1,734,666; Nov. 5.
- Motors, Operating alternating-current. V. A. Fynn. 1,731,238; Oct. 15.
- Motors, Operating electric. S. G. Nottage. 1,730,861; Oct. 8.
- Motors, Releasing attachment for electric starting. F. A. Leib. 1,714,793; May 28.
- Motors, Starting synchronous. C. T. Hibbard. Re17,180; Jan. 1.
- Motors, Starting synchronous. E. W. Seeger. 1,712,778; May 14.
- Motors, Stator for alternating-current. C. F. Thompson. 1,735,222; Nov. 12.
- Motors, Stator for induction. C. F. Thompson. 1,741,799; Dec. 31.
- Mount and making the same, Sample. J. Domber. 1,713,523; May 21.
- Mount-finishing machine. A. Sittel. 1,724,782; Aug. 13.
- Mount for aircraft guns, Pedestal. R. C. Coupland. 1,739,125; Dec. 10.
- Mount for concentrically-suspended sleeves, Simplified. D. C. Klausmeyer. 1,731,670; Oct. 15.
- Mount for displaying samples of liquid. F. B. Eilers. 1,708,666; Apr. 9.
- Mount for electron devices. P. T. Weeks. 1,731,282; Oct. 15.
- Mount for flexible synchronized guns. H. O. Russell and C. L. Paulus. 1,710,114; Apr. 23.
- Mount for guns. A. Dabrasky and G. W. Beatty. 1,724,183; Aug. 13.
- Mount for machine guns, Combination. R. R. Studler and W. R. Bluehdorn. 1,713,723; May 21.
- Mount for radiotubes. A. B. Du Mont. 1,719,968; July 9.
- Mount for telescopic rifle sights. P. H. Meise. 1,710,547; Apr. 23.
- Mounted light, Dirigibly-. C. Sklarek. 1,711,129; Apr. 30.
- Mounting an article in an opening. J. Bowes. 1,730,799; Oct. 8.
- Mounting and light stop for double-shade rollers. A. W. Whitcomb. 1,740,213; Dec. 17.
- Mounting, Bolster. F. W. Lewis. 1,735,830; Nov. 12.
- Mounting, Brake-gear. W. Wright. 1,715,023; May 28.
- Mounting, Brush. A. Zerbo. 1,727,917; Sept. 10.
- Mounting, Cabinet-door. N. Worman. 1,714,747; May 28.
- Mounting, Dipper-stick. E. J. Wilson. 1,698,421; Jan. 8.
- Mounting, Electric-lamp-fixture. C. L. Weichelt and H. F. Gill. 1,724,538; Aug. 13.
- Mounting, Engine. A. S. Harbour. 1,738,532; Dec. 10.
- Mounting, Engine. J. G. Wood. 1,731,837; Oct. 15.
- Mounting, Eyeglass. P. H. Johnston. Des. 79,967; Nov. 26.
- Mounting, Flexible motor. J. O. Carrey. 1,716,484; June 11.
- Mounting for abrasive wheels or the like. G. W. Perks. 1,700,331; Jan. 29.
- Mounting for armatures. B. L. Conley. 1,717,145; June 11.
- Mounting for artificial teeth. J. K. Bishop. 1,720,880; July 16.
- Mounting for automobiles, Shift-lever. O. E. Fishburn. 1,735,677; Nov. 12.
- Mounting for brake safety bars. E. G. Busse. 1,701,945; Feb. 12.
- Mounting for bus bodies. G. M. Schantz. 1,737,177; Nov. 26.
- Mounting for circuit breakers. W. H. Himes. 1,715,706; June 4.
- Mounting for combined wall base and floor coverings. S. G. Lisher and C. Ratto. 1,739,077; Dec. 10.
- Mounting for dolls' eyes and the like. N. Paganello. 1,737,267; Nov. 26.
- Mounting for electric conductors. W. R. Edson. 1,726,101; Aug. 27.
- Mounting for electric conductors. A. H. Leipert. 1,717,885; June 18.
- Mounting for electric meters. S. Hammer. 1,728,543; Sept. 17.
- Mounting for electrical devices. H. J. Crabbs. 1,700,882; Feb. 5.
- Mounting for folding beds. E. Heath. 1,723,649; Aug. 6.
- Mounting for gyratory shafts. A. R. Curtis. 1,698,879; Jan. 15.
- Mounting for indicating instruments. M. J. Huggins. 1,715,502; June 4.
- Mounting for internal-combustion-engine pistons. P. F. Hackethal. 1,724,193; Aug. 13.
- Mounting for jewelry, Picture. L. Baum. 1,726,333; Aug. 27.
- Mounting for loop aerials. R. M. Diener. 1,701,666; Feb. 12.
- Mounting for loud-speakers, Diaphragm. I. S. Bobrovsky. 1,726,524; Sept. 3.
- Mounting for luminous tubes. F. W. Young. 1,722,363; July 30.
- Mounting for oil burners. W. M. Braybrooks. 1,718,681; June 25.
- Mounting for oil filters. A. Champion. 1,731,209; Oct. 8.
- Mounting for panel boards, etc. F. F. Hafemeister. 1,711,841; May 7.
- Mounting for power-actuated wringers. G. L. Hedges. 1,703,422; Feb. 26.
- Mounting for screws and taps. R. O. Beardsley. 1,715,813; June 4.
- Mounting for self-playing violins, Tailpiece. C. P. Corwin. 1,723,767; Aug. 6.
- Mounting for store windows. M. Katz. 1,722,300; July 30.
- Mounting for switches and other electrical apparatus. T. E. and T. E. Murray, jr. 1,726,914; Sept. 3.
- Mounting for watches, Staff and jewel. L. P. Sigler. 1,707,542; Apr. 2.
- Mounting, Fuse. G. Carpenter. 1,699,046; Jan. 15.
- Mounting, Gas-tube. C. J. Wamser. 1,723,670; Aug. 6.
- Mounting, Heater. J. H. Carmean. 1,717,550; June 18.
- Mounting, Instrument. E. A. Ilean. 1,733,804; Oct. 29.
- Mounting, Instrument-panel. J. F. Wilson and A. R. Lewellen. 1,731,835; Oct. 15.
- Mounting, Interchangeable-jewel. L. Baum. 1,740,060; Dec. 17.
- Mounting, Lens. J. B. Griffith. 1,736,119; Nov. 19.
- Mounting means for vehicle engines. D. S. Harder and F. W. Vrooman. 1,718,461; June 25.
- Mounting means, Tail-gate. T. R. Cook. 1,700,923; Feb. 5.
- Mounting misch metal in radiotrons. E. W. Ryan. 1,720,005; July 9.
- Mounting, Motor. R. K. Lee. 1,717,711; June 18.
- Mounting, Motor. R. K. Lee. 1,729,394; Sept. 24.
- Mounting of shock absorbers. L. Rouanet. 1,727,445; Sept. 10.
- Mounting, Ophthalmic. W. G. King. 1,727,433; Sept. 10.
- Mounting, Ophthalmic. J. A. Sweeney. Des. 80,193; Dec. 24.
- Mounting, Pulley. R. W. Bissell. 1,737,352; Nov. 26.
- Mounting, Railway-motor. G. M. Eaton. 1,697,169; Jan. 1.
- Mounting, Reversible door. N. B. Douglass. 1,732,555; Oct. 22.



- Mounting, Roll. J. U. Forbes. 1,697,640; Jan. 1.  
 Mounting, Roller-cutter. C. H. M. Bull. 1,729,062; Sept. 24.  
 Mounting, Shear-pin. O. C. Roosen. 1,740,838; Dec. 24.  
 Mounting, Shoe-ornament. J. Katzman and J. Kipnis. 1,728,763; Sept. 17.  
 Mounting, Signal-lamp. B. F. Miessner. 1,729,080; Sept. 24.  
 Mounting, Spotlight. J. F. Koca and H. C. Behrens. 1,718,421; June 25.  
 Mounting, Swinging tag forked. I. H. Gray. 1,738,892; Dec. 10.  
 Mounting, Telescope. E. H. Unkles. 1,724,118; Aug. 13.  
 Mounting, Thermostat. E. R. Wilson. 1,737,103; Nov. 26.  
 Mounting, Vehicle-body. F. Johnston. 1,737,160; Nov. 26.  
 Mounting, Window-screen. R. C. Bevans. 1,723,642; Aug. 6.  
 Mountings, Making ornamental. H. F. Juergens. 1,713,285; May 14.  
 Mouse-excluding device for the pedal openings of pianos. P. G. Berry. 1,706,434; Mar. 26.  
 Mousetrap. C. A. Swanson. 1,713,196; June 4.  
 Mouth organ. O. Fahrni. 1,714,663; May 28.  
 Mouth organs, Device for giving correct notes and harmonies to. E. Glass. 1,710,502; Apr. 23.  
 Mouthpiece. A. Paulson. 1,704,147; Mar. 5.  
 Mouthpiece for musical instruments. E. J. Gulick. 1,740,013; Dec. 17.  
 Mouthpiece for musical wind instruments. P. Arthur. 1,703,865; Mar. 5.  
 Mouthpiece for telephones. V. J. Tracy. 1,719,573; July 2.  
 Mouthpiece for transmitters. E. E. Slick. 1,712,283; May 7.  
 Mouthpiece for wind instruments, Removable harmonica. F. Strauss. 1,705,076; Mar. 12.  
 Mouthpiece, Hygienic. S. Storch. 1,736,228; Nov. 19.  
 Movable light. S. B. Short. 1,722,865; July 30.  
 Movement-initiating device. H. F. Waters. 1,717,638; June 18.  
 Moving apparatus, Material-. H. A. Roe. 1,703,546; Feb. 26.  
 Moving apparatus, Material-. B. S. Snow. 1,739,099; Dec. 10.  
 Moving large buildings. G. R. Kress. 1,723,358; Aug. 6.  
 Moving matter, Method of and apparatus for treating. J. E. Boynton. 1,741,815; Dec. 31.  
 Mower. M. Moncreiffe. 1,724,300; Aug. 13.  
 Mower. F. E. Richards. 1,721,355; July 16.  
 Mower. O. B. Richter. 1,721,090; July 16.  
 Mower and rake, Combined. R. R. Bowers. 1,726,535; Sept. 3.  
 Mower and weed cutter, Lawn. J. R. Leard. 1,725,655; Aug. 20.  
 Mower attachment, Lawn-. I. Livingston. 1,732,308; Oct. 22.  
 Mower attachment for tractors, Lawn-. F. M. Seeley. 1,725,375; Aug. 20.  
 Mower, Gang. H. R. Lontz. 1,729,002; Sept. 24.  
 Mower, Gang lawn. H. R. Lontz. 1,708,227; Apr. 9.  
 Mower, Gang lawn. C. C. Worthington. 1,712,722; May 14.  
 Mower guard. C. L. Kucha. 1,735,322; Nov. 12.  
 Mower, Grass. R. Hess. 1,701,567; Feb. 12.  
 Mower, Lawn. A. J. Dremel. 1,703,521; Feb. 26.  
 Mower, Lawn. E. A. Eustice. 1,735,567; Nov. 12.  
 Mower, Lawn. R. C. Milliron. 1,701,416; Feb. 5.  
 Mower, Lawn. C. A. Olson. 1,721,744; July 23.  
 Mower, Lawn. C. A. Olson. 1,738,480; Dec. 3.  
 Mower, Lawn. C. K. Perkins. 1,716,085; June 4.  
 Mower, Lawn. C. R. Steinmetz and H. F. McKinney. 1,725,487; Aug. 20.  
 Mower, Lawn. J. Wise. 1,731,086; Oct. 8.  
 Mower, Lawn. R. Wolf. 1,719,791; July 2.  
 Mower, Motor-driven lawn. J. Buday and W. J. Meyer. 1,722,730; July 30.  
 Mower, Power. J. A. E. Carlson. 1,734,713; Nov. 5.  
 Mower, Power. J. A. Roseman. 1,733,133; Oct. 29.  
 Mower, Power-driven lawn. 1,709,791; Apr. 16.  
 Mower, Power lawn. C. W. Ott. 1,724,409; Aug. 13.  
 Mowing attachment for tractors. H. Smith. 1,711,753; May 7.  
 Mowing machine. J. and C. J. Bamford. 1,729,470; Sept. 24.  
 Mowing machine. J. M. Michels. 1,738,661; Dec. 10.  
 Mowing machine. E. C. Myers. 1,739,323; Dec. 10.  
 Mowing machine. C. Pearson. 1,734,396; Nov. 5.  
 Mowing-machine construction. E. D. Lenhart. 1,723,976; Aug. 6.  
 Mowing machine, Railroad. B. L. Martin. 1,711,853; May 7.  
 Mowing machines, Double fingers for. J. P. Lavaud. 1,737,504; Nov. 26.  
 Mowers, Attachment for lawn. A. Laver and G. Davidson. 1,722,381; July 30.  
 Mowers, Clover rake and roller attachment for. J. A. and R. A. Weisensel. 1,729,314; Sept. 24.  
 Mowers, Cutting reel for lawn. F. M. Ritter. 1,741,376; Dec. 31.  
 Mowers, Divider board for. E. B. Peters. 1,697,474; Jan. 1.  
 Mowers, Guard tooth for. L. J. Borkhuis. 1,728,326; Sept. 17.  
 Mucilage dispenser and spreader. W. W. S. Carpenter. 1,735,073; Nov. 12.  
 Mucilage distributor. A. E. Palmer. 1,705,875; Mar. 19.  
 Mud flume. A. M. Griffin. 1,740,732; Dec. 24.  
 Mud gun. J. C. Hopkins. 1,726,070; Aug. 27.  
 Muffle furnace. F. C. Greene and O. H. Hertel. 1,730,570; Oct. 8.  
 Muffle, Laboratory. E. B. Forse. 1,710,870; Apr. 30.  
 Muffle, muffle furnace, and the like. P. H. P. Monckton. 1,724,956; Aug. 20.  
 Muffler. A. C. Estep. 1,698,842; Jan. 15.  
 Muffler. J. F. Goerlich. 1,697,839; Jan. 1.  
 Muffler. F. F. Hamilton. 1,712,210; May 7.  
 Muffler. V. Oldberg. 1,732,818; Oct. 22.  
 Muffler. H. S. Powell. 1,735,789; Nov. 12.  
 Muffler. H. S. Powell. 1,739,039; Dec. 10.  
 Muffler. S. A. Snell. 1,715,630; June 4.  
 Muffler. J. T. Trumble and F. U. Winchester. 1,701,397; Feb. 5.  
 Muffler and heater, Combination. H. M. Graul. 1,700,841; Feb. 5.  
 Muffler and heater, Combined. W. A. Kysor. 1,706,979; Mar. 26.  
 Muffler construction. J. C. Beery. 1,709,426; Apr. 16.  
 Muffler, Exhaust-manifold. S. A. Stranahan. 1,697,794; Jan. 1.  
 Muffler for air blowers, Intake. J. B. Brennan. 1,729,027; Sept. 24.  
 Muffler for automobile engines. W. Siders. 1,729,018; Sept. 24.  
 Muffler for rotary gas engine. C. P. Brockway. 1,718,201; June 18.  
 Muller. L. G. Copes. 1,740,442; Dec. 24.  
 Multicopy attachment. C. H. Thornblade. 1,707,744; Apr. 2.  
 Multigraphs, Paper stripper for. J. Lumyuk. 1,715,611; June 4.  
 Multiplane, Adjustable gauge. E. H. Lichtenberg. 1,705,578; Mar. 19.  
 Multiple control. E. A. Bohlman. 1,710,720; Apr. 30.  
 Multiple switch. J. S. Bohlen. 1,708,438; Apr. 9.  
 Multiple switch. J. J. Lohr. 1,707,126; Mar. 26.  
 Multiple switch. J. F. Weiland. 1,699,172; Jan. 15.  
 Multiple-unit installation. G. W. Allen and O. D. H. Bentley. 1,714,340; May 21.  
 Multiplier, Frequency. A. Meissner. 1,712,046; May 7.  
 Muscular defects, Correcting. F. Hassler. 1,703,104; Feb. 26.  
 Music and other spectacular luminous effects, Producing color. A. B. Hector. 1,728,860; Sept. 17.  
 Music educational appliance. E. E. Scoville. 1,704,221; Mar. 5.  
 Music-instruction device. A. C. Inskeep. 1,713,282; May 14.  
 Music instrument. M. Stoeck. 1,729,805; Oct. 1.  
 Music-leaf turner. D. R. Allen. 1,728,713; Sept. 17.  
 Music-leaf turner. H. C. Halemeyer. 1,716,693; July 11.  
 Music-leaf turner. W. E. Lahti. 1,730,277; Oct. 1.  
 Music-leaf turner. B. L. Nortved. 1,725,669; Aug. 20.  
 Music-leaf turner. R. Robson. 1,705,416; Mar. 12.  
 Music-note guide, Elementary. W. Rosenberg. 1,721,282; July 16.  
 Music-recording instrument. H. P. Ball. 1,716,811; June 11.  
 Music stand. A. Ericsson. 1,720,827; July 16.  
 Music supporting and turning device. H. O. Ensign. 1,739,065; Dec. 10.  
 Music turner. A. P. Coates. 1,723,643; Aug. 6.  
 Musical apparatus. C. Kahmen. 1,723,513; Aug. 6.  
 Musical box. E. Thorens. 1,720,772; July 16.  
 Musical instructing and directing equipment. J. C. Bostelman, Jr. 1,696,901; Jan. 1.  
 Musical-instruction device. I. Barnes. 1,725,844; Aug. 27.  
 Musical instrument. M. J. Andrade. 1,732,297; Oct. 22.  
 Musical instrument. J. L. Banks. 1,720,991; July 16.  
 Musical instrument. H. Bernard. 1,703,382; Feb. 26.  
 Musical instrument. W. Blank. 1,737,910; Dec. 3.  
 Musical instrument. H. M. Chiron. 1,718,930; June 25.  
 Musical instrument. R. W. Claiborne. 1,702,643; Feb. 19.  
 Musical instrument. R. W. Claiborne. 1,708,495; Apr. 9.  
 Musical instrument. R. Dopyera. 1,730,032; Oct. 1.  
 Musical instrument. J. H. Hammond, Jr. 1,722,981; July 30.  
 Musical instrument. A. M. Jeffress. 1,731,103; Oct. 8.  
 Musical instrument. W. Johnson and F. H. Cesander. 1,721,865; July 23.  
 Musical instrument. W. J. Krebs. 1,734,973; Nov. 12.  
 Musical instrument. R. E. Lazare and W. Clapham. 1,722,249; July 23.  
 Musical instrument. W. O. Miessner. 1,698,958; Jan. 15.  
 Musical instrument. N. A. Pedersen. 1,721,710; July 23.  
 Musical instrument. F. C. Peslin. 1,739,914; Dec. 17.  
 Musical instrument. E. W. Powers. 1,703,167; Feb. 26.  
 Musical instrument. H. Schwarzel. 1,728,370; Sept. 17.  
 Musical instrument. M. Stein. 1,723,088; Aug. 6.  
 Musical instrument. M. Tournier. 1,709,548; Apr. 16.  
 Musical instrument. F. Turner. 1,713,012; May 14.  
 Musical instrument. W. Waddington. 1,728,815; Sept. 17.  
 Musical instrument. C. M. Young. 1,723,265; Aug. 6.  
 Musical-instrument bells, Manufacture of. E. J. Gulick. 1,724,280; Aug. 13.  
 Musical instrument construction. J. L. Warner. 1,719,680; July 2.  
 Musical instrument, Mechanical. F. Kavan. 1,734,770; Nov. 5.



- Musical-instrument mouthpiece. N. B. Bailey. 1,705,601; Mar. 19.
- Musical instrument of the reed type. P. J. Packman. 1,716,929; June 11.
- Musical instrument, Pneumatic. A. P. Gustafson. 1,730,847; Oct. 8.
- Musical instrument, Power-operated. O. O. Fusch. 1,707,057; Mar. 26.
- Musical instrument, Record-controlled. T. F. Cheek. 1,715,279; May 28.
- Musical-instrument spur. H. Westermann, jr. 1,711,708; May 7.
- Musical instrument, Stringed. J. Dopyera. 1,741,453; Dec. 31.
- Musical instrument, Stringed. J. W. Gillespie. 1,728,754; Sept. 17.
- Musical instrument, Stringed. H. G. Jerome. 1,701,809; Feb. 12.
- Musical instrument, Stringed. J. H. Large. 1,697,896; Jan. 1.
- Musical instrument, Stringed. J. N. Novotny. 1,721,467-8; July 16.
- Musical instrument, Stringed. V. C. Overton. 1,707,192; Mar. 26.
- Musical instrument, Stringed. W. Schmidt. 1,697,480; Jan. 1.
- Musical instrument, Stringed. J. R. Stewart. 1,699,380; Jan. 15.
- Musical instrument, Stringed. N. Turturro. 1,723,751; Aug. 6.
- Musical instrument, Stringed. J. L. Warner. 1,716,747; June 11.
- Musical instrument, Synthetic-tone. S. Cabot. 1,705,895; Mar. 12.
- Musical instrument, Vibratile. G. E. King. 1,727,238; Sept. 3.
- Musical instruments, Apparatus for tuning and adjusting stringed fretted. F. Winslow. 1,716,570; June 11.
- Musical instruments, Attachment for. J. De Fazio. 1,719,832; July 9.
- Musical instruments, Attachment for. J. P. France. 1,729,336; Sept. 24.
- Musical instruments, Attachment for stringed. H. C. J. Hagberg. 1,732,468; Oct. 22.
- Musical instruments, Damper for wind. A. Corti. 1,733,366; Oct. 29.
- Musical instruments, Device for trimming reeds in. J. H. Beard. 1,723,674; Aug. 6.
- Musical instruments, Finger board for stringed. J. E. P. Cox. 1,727,230; Sept. 3.
- Musical instruments, Fret for. C. F. Smith. 1,727,620; Sept. 10.
- Musical instruments, Individual expression device for mechanically-played. B. E. Mills. 1,724,140; Aug. 13.
- Musical instruments, Key-valve pad for. W. H. Grant. 1,737,966; Dec. 3.
- Musical instruments, Shoulder-pad attachment for. W. A. Meyers. 1,721,919; July 23.
- Musical instruments, Sordino for reed. J. Ghisleri. 1,733,058; Oct. 22.
- Musical instruments, Stopping mechanism for record-controlled. T. F. Cheek. 1,727,809; Sept. 10.
- Musical instruments, Striking device for stringed. C. Stoddard. 1,712,638; May 14.
- Musical instruments, Tailpiece for stringed. A. D. Grover. 1,724,278; Aug. 13.
- Musical tones, Apparatus for reproducing. F. W. Dierdorf. 1,707,115; Mar. 26.
- Musical tones, Sustaining. J. H. Hammond, jr. 1,722,980; July 30.
- Mute, Combination regulated. F. A. Berg. 1,721,764; July 23.
- Mute, Compound regulated. F. A. Berg. 1,697,707; Jan. 1.
- Mute for musical instruments. R. Magosy. 1,714,513; May 28.
- Muting device for violins and the like. W. E. Rose. 1,722,680; July 30.
- Muzzle and fly shield, Horse. C. Perkins. 1,728,443; Sept. 17.
- Muzzle cover for guns. N. E. Methlin. 1,698,646; Jan. 8.
- Muzzle stoppers in molten-metal ladles, Operating pouring. E. Musheiky. 1,716,829; June 11.
- N-hydroxyethyl derivative of aminohydroxybenzenes. G. Reddelien and W. Mueller. 1,712,716; May 14.
- Nail. M. B. Bean. 1,699,421; Jan. 15.
- Nail. R. H. Buck. 1,737,185; Nov. 26.
- Nail. F. Foos. 1,733,008; Oct. 22.
- Nail. R. E. Mehlman. 1,705,371; Mar. 12.
- Nail and the like and making the same. G. J. Comstock. 1,697,810; Jan. 1.
- Nailbrush. J. Zwick. 1,727,497; Sept. 10.
- Nail, Clamp. C. C. Jensen. 1,721,561; July 23.
- Nail claw. F. A. Bannister. 1,723,597; Aug. 6.
- Nail driver. W. F. Bilz. 1,726,012; Aug. 27.
- Nail-driving apparatus. A. W. Ruff. 1,703,458; Feb. 26.
- Nail-driving device. J. B. Hasty. 1,722,330; July 30.
- Nail expansion. H. W. Pleister and J. Karitzky. 1,721,087; July 16.
- Nail expansion and method. H. W. Pleister. 1,733,083; Oct. 22.
- Nail file. W. E. Harris. Des. 79,191; Aug. 13.
- Nail file or similar article. M. Schneffel. Des. 78,802; June 18.
- Nail, Furring. M. Ebinger. 1,732,301; Oct. 22.
- Nail, Furring. J. M. Thorpe. 1,705,651; Mar. 19.
- Nail, Furring. G. F. Voight. 1,701,962; Feb. 12.
- Nail guide and saver. J. Dealy. 1,715,819; June 4.
- Nail, Lath-spacing. G. F. Voight. 1,703,560; Feb. 26.
- Nail machine. E. F. Brown. 1,701,098; Feb. 5.
- Nail puller. A. Wass. 1,709,240; Apr. 16.
- Nail set, Double. T. Jensen. 1,702,607; Feb. 19.
- Nail stripper, Portable. F. Murakoshi. 1,722,820; July 30.
- Nail-stripping device. B. O. Wooster. 1,705,435; Mar. 12.
- Nailing attachment for mechanical hammers. A. Brown. 1,699,519; Jan. 22.
- Nailing block. I. A. Baum. 1,727,024; Sept. 3.
- Nailing device. J. R. Swartz. 1,713,725; May 21.
- Nailing machine. P. Gavin. 1,711,935; May 7.
- Nailing machine. H. W. Morgan. 1,741,135; Dec. 24.
- Nailing machine. E. R. Pope. 1,733,167; Oct. 29.
- Nailing machine. C. S. Price. 1,731,726; Oct. 15.
- Nailing machine for strip flooring. D. J. Dougherty. 1,716,579; June 11.
- Nailing machines, Attachment for. M. O. Solheim. 1,702,095; Feb. 12.
- Nails, Manufacture of horseshoe. A. Moeller. 1,700,685; Jan. 29.
- Name and bell button plate, Combined. G. H. Krogel. 1,734,678; Nov. 5.
- Name and number plates, Manufacturing embossed or intaglio. D. A. V. Rist. 1,727,520; Sept. 10.
- Name plate with interchangeable characters. E. Jammer. 1,722,248; July 23.
- Name plates and other articles, Attaching. A. L. Newman. 1,736,722; Nov. 19.
- Naphthalene constituents from gases, Removal of. E. H. Bird. 1,729,562; Sept. 24.
- Naphthalene, Hydrogenation of. G. Schroeter and W. Schrauth. 1,733,909; Oct. 29.
- Naphthalene, Manufacture of ethylated. R. Michel. 1,741,472; Dec. 31.
- Naphthalene, Procedure for the preparation of hydrogenated. W. Schrauth. 1,733,908; Oct. 29.
- Naphthoquinone derivatives, Manufacture of. A. Wahl and R. Lantz. 1,708,001; Apr. 9.
- Napkin. P. J. Christman, jr. 1,718,776; June 25.
- Napkin. F. A. Conrad. Des. 78,346; Apr. 23.
- Napkin. F. A. Conrad. Des. 79,017; July 23.
- Napkin. R. N. Hamilton. Des. 77,766; Feb. 19.
- Napkin and folding the same, Paper. P. H. Horwitt. 1,730,074; Oct. 1.
- Napkin, Folded. H. Joseph. 1,727,064; Sept. 3.
- Napkin, Folded paper. H. L. Magill. 1,713,000; May 14.
- Napkin-folding machine. P. J. Christman, jr. 1,708,534; Apr. 9.
- Napkin-folding machine. T. N. Deligianes and A. A. Bourdes. 1,719,833; July 9.
- Napkin-folding machine. T. N. Deligianes and A. A. Bourdes. 1,729,998; Oct. 1.
- Napkin or the like, Paper. E. B. Schoonmaker. Des. 79,610; Oct. 15.
- Napkin, Paper. F. A. Conrad. Des. 78,345; Apr. 23.
- Napping machine. F. Drunner. 1,721,985; July 23.
- Napping machine. Mortimer F. Flynn. 1,709,974; Apr. 23.
- Napping machine. J. E. Kelso. 1,702,696; Feb. 19.
- Napping machine. A. Klug. 1,720,735; July 16.
- Napping-machine stop. V. B. Lowder. 1,703,774; Feb. 26.
- Napping roll. H. Whittaker. 1,720,252; July 9.
- Nasal distender. J. R. Rogers. 1,709,740; Apr. 16.
- Navigating apparatus and method. E. L. Holmes. 1,704,250; Mar. 5.
- Navigating machine. G. Yamanouchi. 1,736,896; Nov. 26.
- Necklace or similar article, Metal. N. Saccoccia. Des. 78,900; July 2.
- Necklaces and the like, Connector for. G. W. Jenckes. 1,738,371; Dec. 3.
- Neck pad, Horse-collar. D. A. Smith. 1,715,432; June 4.
- Necktie. I. Cohen. 1,729,597; Sept. 24.
- Necktie. L. Davidoff. 1,736,697; Nov. 19.
- Necktie. A. J. Flumedorio. 1,728,599; Sept. 17.
- Necktie. B. Gold. 1,705,473; Mar. 19.
- Necktie. M. M. Hall. 1,741,232; Dec. 31.
- Necktie. J. J. Hynes. 1,740,984; Dec. 24.
- Necktie. M. E. Johnston. 1,724,659; Aug. 13.
- Necktie. J. E. Langsdorf. 1,735,172; Nov. 12.
- Necktie. W. G. Milne. 1,702,544; Feb. 19.
- Necktie. O. J. Moersch. 1,703,632; Feb. 26.
- Necktie. N. B. Nelson. 1,721,871; July 23.
- Necktie. S. Schwartz. 1,741,345; Dec. 31.
- Necktie. J. C. Wollman. 1,698,520; Jan. 8.
- Necktie and attaching means therefor. G. Meling. 1,705,414; Mar. 12.
- Necktie and forming the same, Bow. H. B. Blach. 1,737,072; Nov. 26.
- Necktie centralizer and holder. C. J. I. Devlin. 1,708,607; Apr. 9.
- Necktie device. A. M. Field. 1,704,793; Mar. 12.
- Necktie form and catch. W. N. Ebling. 1,716,880; June 11.
- Necktie, Four-in-hand. H. Berkson. 1,701,255; Feb. 5.
- Necktie holder. J. C. Young. 1,707,591; Apr. 2.
- Necktie-knot support. H. M. Baker and J. R. Gier, jr. 1,717,542; June 18.
- Necktie, Men's bow. J. A. Hewes. 1,729,742; Oct. 1.
- Necktie rack. H. W. Law. 1,701,783; Feb. 12.
- Necktie rack. J. E. Vorbach. Des. 78,799; June 18.
- Necktie restorer. E. Schwartz. 1,725,214; Aug. 20.
- Necktie retainer. R. J. Lewers. 1,719,434; July 2.



- Necktie, Reversible. D. C. Cunningham. 1,721,333; July 16.
- Necktie threader. G. Fischer. 1,730,415; Oct. 8.
- Neckties, Making. O. Weinstein. 1,718,722; June 25.
- Neckwear. W. E. Webb. 1,712,098; May 7.
- Needle. D. S. Allen. 1,711,579; May 7.
- Needle. W. D. Van Dyke. 1,730,546; Oct. 8.
- Needle. R. Zwez. 1,717,297; June 11.
- Needle-actuating mechanism for hemstitching machines. G. M. Eames and J. C. Ringe. 1,721,072; July 16.
- Needle and the like. S. W. Finch. 1,734,423; Nov. 5.
- Needle bar. C. H. Greenwood. 1,697,424; Jan. 1.
- Needle changer for phonographs, Automatic. K. Arakawa. 1,729,533; Sept. 24.
- Needle-felting machine. E. H. Marble. 1,706,535; Mar. 26.
- Needle for repairing runs in knitted fabrics. A. G. Hague. 1,732,469; Oct. 22.
- Needle for talking machines, phonographs, and similar instruments, Reproducing. H. J. Fiddelke. 1,739,219; Dec. 10.
- Needle guard for sewing machines. M. Guhl. 1,740,853; Dec. 24.
- Needle-holding device for knitting machines, Multiple-band-. 1,726,255; Aug. 27.
- Needle, Injector. L. B. Hasbrouck. 1,705,763; Mar. 19.
- Needle, Knitting. W. D. Van Dyke. 1,730,545; Oct. 8.
- Needle, Latch. H. R. Schmidt. 1,709,631; Apr. 16.
- Needle-making machine. A. Hofmann and O. Kanis. 1,735,759; Nov. 12.
- Needle-motion mechanism for looms. E. V. Dunne. 1,718,546; June 25.
- Needle, Phonograph. W. G. Knox and A. G. Russell. 1,733,603; Oct. 29.
- Needle-picking machine. M. L. Reidinger. 1,700,572; Jan. 29.
- Needle, Run-repair. H. Haveson. 1,727,769; Sept. 10.
- Needle-shogging mechanism. C. W. Mueller. 1,734,822; Nov. 5.
- Needle, Sound-reproducing. L. F. Douglass. 1,718,035; June 18.
- Needle threader. K. Buxbaum. 1,704,530; Mar. 5.
- Needle-threading device. C. R. Diller. 1,725,062; Aug. 20.
- Needling machine. C. H. Chase. 1,742,133; Dec. 31.
- Negative and color-print-making system, Photographic strip. F. E. Ives. 1,722,092; July 23.
- Negatives, Making. W. Heinecke. 1,700,262; Jan. 29.
- Nest. A. E. Evans. 1,712,654; May 14.
- Nest and nest rack, Hen's. W. E. Waller. 1,740,323; Dec. 17.
- Nest, Hen's. C. M. Purdy. 1,728,700; Sept. 17.
- Nest, Hen's. J. B. Tweet. 1,721,649-50; July 23.
- Nest, Trap. A. S. Baker. 1,708,824; Apr. 9.
- Nest, Trap. R. M. Edington. 1,723,337; Aug. 6.
- Nest, Trap. J. O. Palmquist. 1,735,442; Nov. 12.
- Net fabric. S. S. Gulton. Des. 79,357-8; Sept. 10.
- Net, Hand fishing. A. S. Richardson. 1,736,624; Nov. 19.
- Net-hauling device. J. W. Lovell. 1,727,071; Sept. 3.
- Net, Landing. E. C. Powell. 1,726,715; Sept. 3.
- Net, Life-saving. J. W. Reno. 1,727,902; Sept. 10.
- Network. B. S. Niccum. 1,727,214; Sept. 3.
- Network, Electrical delay. H. Nyquist and K. W. Pfeiffer. 1,732,312-3; Oct. 22.
- Network, Phase shifting. H. Nyquist. 1,717,400; June 18.
- Networks, Method and apparatus for testing. H. Nyquist. 1,732,311; Oct. 22.
- Networks, Phase-compensating. H. Nyquist. 1,735,052; Nov. 12.
- Neutralizer bar. W. H. Chapman. 1,735,494; Nov. 12.
- Neutralizer, Vibration. F. A. Bower. 1,701,402; Feb. 5.
- Neutralizing capacitive reactance between two circuits placed close to each other, System for. R. A. Heising. 1,708,944; Apr. 16.
- News device, Late. I. Tornberg and H. C. Jordhoy. 1,734,061; Nov. 5.
- News device, Late. H. A. W. Wood. 1,734,067; Nov. 5.
- News-projecting machine. J. W. Decker. 1,717,838; June 18.
- Newspaper-clipping cutter. R. Nunes. 1,717,061; June 11.
- Newspaper rack. L. P. Hobbs. 1,735,900; Nov. 19.
- Newspaper-stuffing machine. S. Halvorsen. 1,713,123; May 14.
- Nickel flakes for use as admixture in the active material of alkaline accumulators, Manufacturing. E. Breuning and O. Schneider. 1,732,179; Oct. 15.
- Nickel flakes, Obtaining thin. E. Breuning. 1,707,217; Apr. 2.
- Nicotine from tobacco, Removing. H. Federmann. 1,719,291; July 2.
- Nip mechanism and controlling apparatus relating thereto in combers for textile fibers. C. Schleifer. 1,708,032; Apr. 9.
- Nipper, Police. G. W. Harvey. 1,700,047; Jan. 22.
- Nippers in Heilmann and like combers, Controlling the. C. Gegauff. 1,714,017; May 21.
- Nipple. A. C. Ahlberg. 1,697,218; Jan. 1.
- Nipple. E. W. Davis. 1,707,977; Apr. 9.
- Nipple. E. W. Davis. 1,731,768; Oct. 15.
- Nipple. R. Wedeberg. 1,731,803; Oct. 15.
- Nipple, Drive-fit. H. H. Brand. 1,735,230; Nov. 12.
- Nipple, Flow. W. D. Shaffer. 1,698,826; Jan. 15.
- Nipple, Flow. J. S. Watts. 1,737,281; Nov. 26.
- Nipple for nursing bottles. C. J. Reilly. 1,714,241; May 21.
- Nipple for nursing bottles and the like. R. G. A. Beck. 1,714,757; May 28.
- Nipple for wire spokes. E. W. Stoler. 1,734,184; Nov. 5.
- Nipple, Lubricant. M. F. Carr. 1,725,178; Aug. 20.
- Nipple, Safety. M. Blumenfeld. 1,735,670; Nov. 12.
- Nitrobenzene-sulphur resin and making same. W. C. Wilson. 1,732,453; Oct. 22.
- Nitrocellulose coating composition and film made therefrom. M. V. Hitt. 1,710,453; Apr. 23.
- Nitrocellulose composition. H. Bradshaw, E. H. Nollau, and R. G. Woodbridge. 1,703,415; Feb. 26.
- Nitrocellulose composition. J. C. Emhardt. 1,737,364; Nov. 26.
- Nitrocellulose composition, Stabilized. G. R. Barrett. 1,720,992; July 16.
- Nitrocellulose lacquer for sealing tops of dry cells. P. A. Marsal. 1,711,739; May 7.
- Nitrocellulose smokeless powder, Manufacture of. A. S. Hawkesworth. 1,713,505; May 14.
- Nitrogen from ammoniacal liquor, Producing oxide of. D. L. Jacobson. 1,713,045; May 14.
- Nitrosamine-alkali-salts of halogenated and methyl-substituted amines, new. A. Zitscher and W. Seidenfaden. 1,724,062; Aug. 13.
- Nitrosyl halide, Producing. G. B. Taylor. 1,717,951; June 18.
- Noiseless switch. R. F. George. 1,720,395; July 9.
- Noises, Apparatus for obviating network. J. M. Schmierer. 1,741,480; Dec. 31.
- Noises caused by propellers and other quickly-moving bodies, Method of and device for dampening. F. Kruckenberg. 1,727,720; Sept. 10.
- Noncorrodible structure. V. N. Hybinette. 1,704,252; Mar. 5.
- Nonglare device. G. A. Schuchert. 1,716,604; June 11.
- Nonreversible furnace. L. Mambourg. 1,739,973; Dec. 17.
- Nonskid armor for tires. K. W. Weiss. 1,737,531; Nov. 26.
- Nonskid attachment for automobiles. N. Coate, G. C. Vankirk, and W. V. Coate. 1,708,081; Apr. 9.
- Nonsquealing brake. M. Loughhead. 1,717,393; June 18.
- Nozzle machine. V. Glisce. 1,730,932; Oct. 8.
- Normalizing furnace. F. J. Winder. 1,723,109; Aug. 6.
- Normalizing furnace, Continuous. F. W. Manker. 1,703,943; Mar. 5.
- Nose bridge for a spectacle frame. V. Tanasso. Des. 77,793; Feb. 19.
- Nose bridge for a spectacle frame. V. Tanasso and J. J. Pomeranz. Des. 78,131; Mar. 26.
- Nose bridge for eyeglass frames. V. Tanasso. Des. 78,130; Mar. 26.
- Notation-strip manufacture. A. J. Bohnengel. 1,713,070; May 14.
- Notch for improved side seams. E. F. Warren. 1,729,195; Sept. 24.
- Notcher, Check. C. A. Erickson. 1,702,728; Feb. 19.
- Notepad divider. O. S. Morgan. 1,741,066; Dec. 24.
- Novelty. R. V. Behning. 1,729,472; Sept. 24.
- Novelty. C. R. Krone. 1,708,581; Apr. 9.
- Novelty. F. O'Neill. 1,724,770; Aug. 13.
- Novelty, Amusement. F. W. Hoban. 1,703,273; Feb. 26.
- Novelty case. B. B. Deitel. 1,715,820-1; June 4.
- Novelty case, Combination. B. B. Deitel. 1,739,890; Dec. 17.
- Novelty, Perfume-dispensing. R. T. Brewster. 1,720,831; July 16.
- Nozzle. Z. S. Goss. 1,739,226; Dec. 10.
- Nozzle. E. Gross. 1,706,355; Mar. 19.
- Nozzle. A. F. Kelly. 1,705,188; Mar. 12.
- Nozzle. W. J. Kruse. 1,730,664; Oct. 8.
- Nozzle, Air-brush. A. Shelburne. 1,737,896; Dec. 3.
- Nozzle-adjusting means, Vacuum-cleaner. E. Moss. 1,733,384; Oct. 29.
- Nozzle adjustment, Vacuum-cleaner. P. H. Robinson. 1,725,019; Aug. 20.
- Nozzle and support, Bottle-filling-machine. T. E. Peacock. 1,730,381; Oct. 8.
- Nozzle and whistle, Combined filling. J. M. Scott and W. L. Dayton. 1,701,311; Feb. 5.
- Nozzle apparatus. Jet. C. B. Reynolds. 1,737,684; Dec. 3.
- Nozzle, Blast. F. Gastell. 1,729,577; Sept. 24.
- Nozzle, Carburetor spray. G. Tribbett. 1,730,099; Oct. 1.
- Nozzle, Casing-shoe. J. Le Flore. 1,715,767; June 4.
- Nozzle construction. H. P. Banning. 1,713,734; May 21.
- Nozzle detail, Douche. W. Novack. 1,725,670; Aug. 20.
- Nozzle diaphragms, turbine wheels, and the like, Manufacturing. E. D. Dickinson. 1,713,173; May 14.
- Nozzle, Exhaust. W. F. Kiesel, Jr. 1,726,152; Aug. 27.
- Nozzle for atomizing wire-shaped materials. N. Meurer. 1,725,012; Aug. 20.
- Nozzle for clinical and like purposes. Rubber. E. G. Pont. 1,701,421; Feb. 5.
- Nozzle for conveying plants operated with compressed air, Blowing-out. H. Horn. 1,733,302; Oct. 29.
- Nozzle for dishwashing machines and the like. N. H. Henderson. 1,702,694; Feb. 19.
- Nozzle for gasoline-filling-station hose. J. C. Seidel. 1,726,044; Aug. 27.
- Nozzle for humidifying apparatus, Vaporizing. G. W. D'Arcy. 1,709,064; Apr. 16.
- Nozzle for tire valves, Valved. R. J. Reaney. 1,719,902; July 9.
- Nozzle for vacuum cleaners. J. H. Codrick. 1,705,900; Mar. 19.



- Nozzle for viscous fuels in Diesel engines, Injecting. R. Gaupp. 1,737,653; Dec. 3.
- Nozzle, Fuel. G. L. Robinson. 1,707,772; Apr. 2.
- Nozzle, Fuel-feeder. J. W. Cox. 1,697,048; Jan. 1.
- Nozzle, Grease-pump. H. M. Boe. 1,721,726; July 23.
- Nozzle handling and directing implement, Fire hose. H. Helmeke. 1,721,449; July 16.
- Nozzle, Hose. B. P. Higby. 1,733,262; Oct. 29.
- Nozzle, Hydraulic jet-dispersal. O. A. Price. 1,736,937; Nov. 26.
- Nozzle, Liquid-fuel-burner. A. V. Rigby. 1,737,945; Dec. 3.
- Nozzle, Lubricant. R. Wedeberg. 1,725,234; Aug. 20.
- Nozzle, Nonclogging spray. L. T. Mart. 1,710,832; Apr. 30.
- Nozzle of vacuum cleaners. S. M. Carlstedt. 1,740,001; Dec. 17.
- Nozzle, Oil-atomizing. M. St. Clair. 1,713,357; May 14.
- Nozzle, Oil-burner. H. Barley. 1,735,490; Nov. 12.
- Nozzle, Oil-burner. A. P. Holden. 1,733,964; Oct. 29.
- Nozzle, Oil-pump. T. B. Bennett. 1,718,888; June 25.
- Nozzle, Paint-spray. H. D. Binks. 1,717,086; June 11.
- Nozzle, Sand-blast. C. N. Fairchild. 1,703,029; Feb. 19.
- Nozzle, Sanitary douche. W. Novack. 1,725,671; Aug. 20.
- Nozzle, Smoke-abatement. J. E. Bjorkholm and G. Blyberg. 1,726,802; Sept. 3.
- Nozzle, Spray. S. C. Bloom. 1,731,813; Oct. 15.
- Nozzle, Spray. B. H. Coffey and G. S. Dauphinee. 1,722,733; July 30.
- Nozzle, Spray. L. A. Cornelius. 1,721,945; July 23.
- Nozzle, Spray. J. F. Curtis. 1,737,831; Dec. 3.
- Nozzle, Spray. S. Debus. 1,727,464; Sept. 10.
- Nozzle, Spray. C. E. Hill. Re17,321; June 4.
- Nozzle, Spray. J. S. McNamara. 1,725,993; Aug. 27.
- Nozzle, Spray. J. J. Preble. 1,705,679; Mar. 19.
- Nozzle, Spray. L. Wittenberg. 1,730,708; Oct. 8.
- Nozzle, Spraying. E. F. Chandler. 1,713,260; May 14.
- Nozzle, Surface-fushing. F. C. Robertshaw. 1,699,210; Jan. 15.
- Nozzle, Three-way. G. T. Biglane. 1,708,826; Apr. 9.
- Nozzle tip for locomotives, Exhaust. J. H. Becker. 1,703,052; Feb. 19.
- Nozzle, Vacuum. L. W. Dicely. 1,736,771; Nov. 26.
- Nozzle, Vacuum cotton-picking. J. S. Thurman. 1,733,211; Oct. 29.
- Nozzles, Making. R. A. Kropp. 1,721,630; July 23.
- Nuclear substitution product of 1-aminonaphthalene-8-carboxylic acid in the open or anhydride form and making same. R. Herz and F. Schulte. 1,728,995; Sept. 24.
- Number and push button, Illuminated house. J. G. Knapp and C. A. Woodall, jr. 1,705,485; Mar. 19.
- Number-indicating system. H. W. MacDougall. 1,709,084; Apr. 16.
- Number-learning device. E. Janneson. 1,728,491; Sept. 17.
- Number plate, Motor-vehicle. R. B. Fouch. Des. 78,200; Apr. 9.
- Numbering machine. W. F. Haupt. 1,706,692; Mar. 26.
- Numbering machine. A. C. Rothoff. 1,708,154; Apr. 9.
- Nursery chair. A. J. Lehman. Des. 77,605; Jan. 29.
- Nursery chair. F. H. Ross. 1,718,880; June 25.
- Nursery chest. E. S. Duke. Des. 78,617; May 28.
- Nut and bolt assembling machine. L. Ober. 1,726,307; Aug. 27.
- Nut and bolt locking device. J. G. Elkin. 1,714,711; May 28.
- Nut and providing the same, Edible. H. F. Rippey. 1,733,697; Oct. 29.
- Nut, Antifriction. R. G. Boehm. 1,704,031; Mar. 5.
- Nut, Attachable. A. Sande. 1,714,520; May 28.
- Nut, Cap. T. Ferry. 1,727,590; Sept. 10.
- Nut-castelling machine. E. J. Mueller and J. J. Hagen. 1,699,010; Jan. 15.
- Nut, Compensating. M. Maag. 1,707,442; Apr. 2.
- Nutcracker. L. Bemelmans. Des. 77,734; Feb. 19.
- Nutcracker. C. D. Clark. 1,698,620; Jan. 8.
- Nutcracker. W. M. S. Lindsey. 1,710,629; Apr. 23.
- Nutcracker. B. D. Smith. 1,724,049; Aug. 13.
- Nutcracker. A. P. J. Voigt. 1,730,905; Oct. 1.
- Nut-cracking machine. C. E. Dellenbarger. 1,712,105; May 7.
- Nut-cracking machine. B. J. Guidarelli. 1,713,600; May 21.
- Nut for bolts and the like, Lock. C. E. S. Place, sr. 1,734,445; Nov. 5.
- Nut lock. R. L. Adams. Re17,396; Aug. 6.
- Nut lock. R. L. Adams. 1,715,883; June 4.
- Nut lock. B. J. F. Andersson. 1,739,476; Dec. 10.
- Nut, Lock. C. L. Day. 1,724,460; Aug. 13.
- Nut lock. P. Dbaensens. 1,717,668; June 18.
- Nut lock. T. V. S. Dorsey. 1,733,529; Oct. 29.
- Nut lock. L. Endress. 1,732,881; Oct. 22.
- Nut lock. E. B. Flowers. 1,708,305; Apr. 9.
- Nut, Lock. P. A. Garrup. 1,734,461; Nov. 5.
- Nut lock. W. J. Gibbons. 1,707,932; Apr. 2.
- Nut lock. R. F. Gillespie. 1,714,952; May 28.
- Nut lock. S. Giovannini. 1,731,337; Oct. 15.
- Nut, Lock. T. Halagarda. 1,725,790; Aug. 27.
- Nut lock. L. Hayd. 1,728,753; Sept. 17.
- Nut lock. V. C. Huff. 1,740,094; Dec. 17.
- Nut lock. F. J. Kraber. 1,740,305; Dec. 17.
- Nut, Lock. J. L. Larrad. 1,717,789; June 18.
- Nut lock. A. G. Martin. 1,737,317; Nov. 26.
- Nut lock. C. McDougall. 1,701,488; Feb. 5.
- Nut lock. J. M. and F. V. McGlynn. 1,719,069; July 2.
- Nut, Lock. C. Murphy. 1,739,410; Dec. 10.
- Nut lock. D. L. Nation. 1,703,947; Mar. 5.
- Nut lock. H. F. Paul. 1,734,743; Nov. 5.
- Nut lock. D. B. Penny. 1,705,337; Mar. 12.
- Nut lock. C. Poelman. 1,709,539; Apr. 16.
- Nut lock. J. A. Prussen. 1,738,482; Dec. 3.
- Nut lock. C. A. Rossberg. 1,716,385; June 11.
- Nut lock. G. Rossetti. 1,722,541; July 30.
- Nut lock. H. Rusack. 1,741,077; Dec. 24.
- Nut, Lock. J. M. Short. 1,710,117; Apr. 23.
- Nut lock. E. M. Stallard and F. B. Hale. 1,711,661; May 7.
- Nut lock. F. M. Williamson. 1,709,965; Apr. 23.
- Nut-locking washer. E. Frischmuth. 1,740,852; Dec. 24.
- Nut machine. G. S. Smith. 1,730,483; Oct. 8.
- Nut machine. G. S. Smith. 1,738,124; Dec. 3.
- Nut-making machine. P. H. F. Spies. 1,719,568; July 2.
- Nut-meat product and manufacturing the same. J. L. Rosenfeld. 1,716,152; June 4.
- Nut, Quick-detachable. A. E. Bronson. 1,739,286; Dec. 10.
- Nuts, Retainer for. C. E. Anderson. 1,742,052; Dec. 31.
- Nut, Self-locking. T. G. Rennerfelt. 1,726,628; Sept. 3.
- Nut, Self-locking. T. G. Rennerfelt. 1,729,013; Sept. 24.
- Nut-shell remover. R. E. Woodson. 1,728,194; Sept. 17.
- Nut-sheller. J. W. Smith. 1,720,575; July 9.
- Nut-tapping machine. W. A. Crehan. 1,736,581; Nov. 19.
- Nut wrench. J. S. Wilcox and W. C. Simpson. 1,724,540; Aug. 13.
- Nuts, Making blind. E. A. Nelson. 1,715,142; May 28.
- Nuts, Making lock. D. T. Brownlee. 1,714,072; May 21.
- Nuts or the like, Making. E. G. Oakley. 1,714,316; May 21.
- Nuts to metal plates, Attaching tapped. B. T. Andren. 1,705,463; Mar. 12.
- Oar, Metal. P. R. Andrews. 1,740,560; Dec. 24.
- Oaring device for rowboats. C. A. Bilestine. 1,704,074; Mar. 5.
- Oats separator. E. A. Johnson. 1,731,167; Oct. 8.
- Observation device. K. Bauer. 1,737,292; Nov. 26.
- Observation instrument. F. E. Wright. 1,699,827; Jan. 22.
- Obstetric device. G. Weitzner. 1,711,294; Apr. 30.
- Obstetrical sheet. A. E. Wheeler. 1,724,443; Aug. 13.
- Obstruction indicator for railway trucks, Emergency. E. J. Gorman. 1,712,206; May 7.
- Obtaining direct current from alternating current by means of polyphase rectifiers, Apparatus for. J. Jonas. 1,712,502; May 14.
- Obtaining indicator cards from engines, Method and apparatus for. G. D. Angle. 1,720,710; July 16.
- Octave-key mechanism for musical instruments. A. Loomis. 1,706,796; Mar. 26.
- Ocular. L. Bertele. 1,699,682; Jan. 22.
- Odograph. L. Kambo. 1,711,791; May 7.
- Odograph. E. E. Winkley. 1,727,460; Sept. 10.
- Odometer. Concealed. S. S. Howard. 1,717,687; June 18.
- Odometer mechanism. J. Berge. 1,738,558; Dec. 10.
- Odometer. Mileage-period-indicating. A. C. Wood. 1,714,288; May 21.
- Odometer reset. H. Jones. 1,705,018; Mar. 12.
- Odometer reset mechanism. C. B. Dinsmore. 1,727,815; Sept. 10.
- Odometers, Automatic indicating means for. J. H. Hammond, jr. 1,698,092; Jan. 8.
- Odometers, etc., Resetting mechanism for. H. L. MacNeill. 1,703,678; Feb. 26.
- Odor absorbent. J. M. Brandley. 1,728,656; Sept. 17.
- Odors from gases and air, Removing. J. T. Travers. 1,738,543; Dec. 10.
- Offal and the like, Machine for treating animal. R. L. O'Meara. 1,717,465; June 18.
- Offset boring head. E. J. Tesoroni. 1,718,089; June 18.
- Offset conduit-elbow fitting. J. W. Hooley. 1,710,640; Apr. 23.
- Ohmic resistance and manufacturing the same, Adjustable high. J. Kremenezky. 1,733,023; Oct. 22.
- Oil and chip pan. A. E. Drissner and C. Q. Garey. 1,716,919; June 11.
- Oil and gas burner, Combined. R. C. Hopkins. 1,736,345; Nov. 19.
- Oil and gas controller. W. Brauer. 1,719,207; July 2.
- Oil and gas well swab. H. J. Small. 1,724,736; Aug. 13.
- Oil and making the same, Leather. A. E. Becker and A. B. Boehm. 1,715,892; June 4.
- Oil and water separator. H. J. Smith. 1,716,934; June 11.
- Oil, Apparatus for burning. I. C. Jennings. 1,724,658; Aug. 13.
- Oil, Apparatus for cracking. A. Schwarz. 1,714,454; May 21.
- Oil, Apparatus for purifying waste lubricating. J. C. Briel. 1,725,845; Aug. 27.
- Oil, Apparatus for reclaiming crude. H. V. Meathers. 1,705,370; Mar. 12.
- Oil, Apparatus for refining. C. W. Stratford and W. S. James. 1,741,887; Dec. 31.
- Oil, Apparatus for treating. A. B. Steen. 1,740,275; Dec. 17.
- Oil, Atomizing. A. Schnürle. 1,709,744; Apr. 16.
- Oil, Automobile motor-cooling. R. E. Wilson. 1,700,392; Jan. 29.
- Oil-bearing formation, Method for the location of. C. Schlumberger. 1,719,786; July 2.
- Oil break switch. Uni or multi polar. H. Kergel. 1,732,895; Oct. 22.
- Oil burner. E. J. Ballgoe. 1,714,654; May 28.
- Oil burner. C. O. Bech. 1,722,991; Aug. 6.



- Oil burner. C. O. Bech. 1,723,759; Aug. 6.  
 Oil burner. J. Benniger. 1,726,640; Sept. 3.  
 Oil burner. M. J. Binkley. 1,740,062; Dec. 17.  
 Oil burner. G. W. Blakesley. 1,724,337; Aug. 13.  
 Oil burner. W. A. Brown. 1,726,175; Aug. 27.  
 Oil burner. H. J. Cary. 1,723,677; Aug. 6.  
 Oil burner. J. A. D'Elia and S. D. Polsen. 1,711,140; Apr. 30.  
 Oil burner. C. H. Dooley. 1,699,654; Jan. 22.  
 Oil burner. E. J. Evans. 1,700,353; Jan. 29.  
 Oil burner. E. R. Evans and C. M. Tichenor. 1,721,901; July 23.  
 Oil burner. E. A. Field. 1,714,216; May 21.  
 Oil burner. E. A. Field and E. A. Field, jr. 1,714,217; May 21.  
 Oil burner. J. E. Fowler. 1,707,850; Apr. 2.  
 Oil burner. O. C. Gengelbach. 1,698,129; Jan. 8.  
 Oil burner. A. B. Goodspeed. 1,733,593; Oct. 29.  
 Oil burner. J. Grison. 1,698,263; Jan. 8.  
 Oil burner. F. Hardinge. 1,735,245; Nov. 12.  
 Oil burner. F. Hardinge. 1,739,548; Dec. 17.  
 Oil burner. F. Hardinge and B. H. Connor. 1,707,761; Apr. 2.  
 Oil burner. C. H. Harrison. 1,718,556; June 25.  
 Oil burner. F. A. Heath. 1,707,474; Apr. 2.  
 Oil burner. S. Heid. 1,703,447; Feb. 26.  
 Oil burner. F. Henneböhlle. 1,741,864; Dec. 31.  
 Oil burner. R. C. Hopkins. 1,709,174; Apr. 16.  
 Oil burner. H. L. Jensen. 1,738,655; Dec. 10.  
 Oil burner. C. H. Krebs. 1,710,703; Apr. 30.  
 Oil burner. F. X. Mantion. 1,715,205; May 28.  
 Oil burner. A. W. Morse. 1,698,103; Jan. 8.  
 Oil burner. J. W. Mowbray. 1,720,374; July 9.  
 Oil burner. M. A. Powers. Des. 77,858; Feb. 26.  
 Oil burner. N. F. Pratt. 1,711,965; May 7.  
 Oil burner. H. S. Rogers. 1,716,325; June 4.  
 Oil burner. H. J. Sauvage. 1,724,373; Aug. 13.  
 Oil burner. W. E. Shore. 1,739,047; Dec. 10.  
 Oil burner. A. C. and J. Sladky. 1,710,324; Apr. 23.  
 Oil burner. L. N. Snow. 1,714,325; May 21.  
 Oil burner. F. P. Springstead. 1,705,213; Mar. 12.  
 Oil burner. T. B. Stillman. 1,719,090; July 2.  
 Oil burner. B. F. Truesdell. 1,733,287; Oct. 29.  
 Oil burner. J. Van Vorst and G. M. Baker. 1,728,580-1; Sept. 17.  
 Oil burner. L. Wilcox. 1,736,990; Nov. 26.  
 Oil burner. W. J. Young. 1,707,340; Apr. 2.  
 Oil burner and operation thereof. C. M. Alexander. 1,702,373; Feb. 19.  
 Oil-burner apparatus. T. Keenan. 1,732,605; Oct. 22.  
 Oil-burning apparatus. W. C. McKesson. 1,741,868; Dec. 31.  
 Oil burner, Automatic. J. Brant. 1,739,350; Dec. 10.  
 Oil burner, Automatic. G. D. Sundstrand. 1,735,911; Nov. 19.  
 Oil burner, Automatically-operated. L. P. Rollins and H. R. Banks. 1,705,310; Mar. 12.  
 Oil burner, Crude-. K. R. Schreier. 1,735,658; Nov. 12.  
 Oil burner, Domestic. L. I. Aldrich. 1,722,997; Aug. 6.  
 Oil burner, Fuel-. L. E. Johnson. 1,702,162; Feb. 12.  
 Oil burner, Hot-box. H. C. Robinson. 1,701,484; Feb. 5.  
 Oil-burner system. J. Good and E. H. Olsen. 1,708,918; Apr. 9.  
 Oil burner, Thermostatic. L. S. Chadwick. 1,715,334; May 28.  
 Oil-burner unit. S. L. Laughlin and H. F. Braun. 1,716,449; June 11.  
 Oil burner, Wick. C. M. Fitch. 1,718,814; June 25.  
 Oil-burning apparatus. J. Good. 1,723,031; Aug. 6.  
 Oil-burning apparatus. W. G. Johnston. 1,735,463; Nov. 12.  
 Oil-burning-control system. D. G. Taylor. 1,727,735; Sept. 10.  
 Oil-burning device. J. E. McCutchen. 1,718,473; June 25.  
 Oil-burning device. A. V. Pickering. 1,714,569; May 28.  
 Oil-burning furnace. J. McDonald. 1,710,370; Apr. 23.  
 Oil-burning furnace. G. Niemkoff. 1,736,415; Nov. 19.  
 Oil-burning heater. L. Lockwood. 1,697,687; Jan. 1.  
 Oil by fermentation, Producing fusel. F. A. McDermott. 1,725,084; Aug. 20.  
 Oil can. R. J. Anschicks. 1,725,386; Aug. 20.  
 Oil can. C. Delp. 1,716,034; June 4.  
 Oil can. E. Hamel. 1,709,014; Apr. 16.  
 Oil can. S. Harris. 1,733,731; Oct. 29.  
 Oil can. F. I. Jaden. 1,698,632; Jan. 8.  
 Oil can. F. I. Jaden. 1,707,084; Mar. 26.  
 Oil can. F. I. Jaden. 1,724,839; Aug. 13.  
 Oil can. N. G. Olson. 1,735,784; Nov. 12.  
 Oil can. B. N. Pierce. 1,728,215; Sept. 17.  
 Oil can. W. G. Matthews. 1,704,573; Mar. 5.  
 Oil can, Self-draining. S. E. Nord. 1,713,972; July 2.  
 Oil-change indicator. J. C. Snell. 1,727,569; Sept. 10.  
 Oil clarification. C. Van Brunt. 1,703,646; Feb. 26.  
 Oil, Clarifying. C. Van Brunt. 1,703,645; Feb. 26.  
 Oil cleaner. A. H. Roehr. 1,723,374; Aug. 6.  
 Oilcloth. H. W. Dieck. Des. 77,472; Jan. 15.  
 Oilcloth. H. W. Dieck. Des. 77,678-9; Feb. 12.  
 Oilcloth. H. W. Dieck. Des. 77,818-19; Feb. 26.  
 Oilcloth. H. W. Dieck. Des. 78,451-2; May 7.  
 Oilcloth. H. W. Dieck. Des. 78,922; July 9.  
 Oilcloth. H. W. Dieck. Des. 79,067; July 30.  
 Oilcloth. H. W. Dieck. Des. 79,284; Aug. 27.  
 Oilcloth. H. W. Dieck. Des. 79,287; Aug. 27.  
 Oilcloth. H. W. Dieck. Des. 79,790-1; Nov. 6.  
 Oil containing ether derivatives of polyhydroxy alcohols, Soluble. D. R. Merrill. 1,739,686; Dec. 17.  
 Oil conversion, Hydrocarbon-. C. J. Pratt. 1,741,535; Dec. 31.  
 Oil, Conversion of hydrocarbon. G. Egloff and J. C. Morrell. 1,733,656; Oct. 29.  
 Oil cooler. H. F. Schmidt. 1,740,120; Dec. 17.  
 Oil cooler, Automobile. C. J. MacKintosh. 1,717,716; June 18.  
 Oil, Cracking. G. Egloff. 1,703,617; Feb. 26.  
 Oil, Cracking. G. Egloff. 1,741,510; Dec. 31.  
 Oil, Cracking. E. W. Isom. 1,722,222; May 23.  
 Oil, Cracking. E. W. Isom. E. C. Herthel, and H. L. Pelzer. 1,727,707; Sept. 10.  
 Oil, Cracking emulsified petroleum. G. Egloff and H. P. Benner. 1,703,103; Feb. 26.  
 Oil-cracking means and method. M. J. Trumble. 1,724,982; Aug. 20.  
 Oil-cracking process. A. Schwarz. 1,714,453; May 21.  
 Oil cup. F. E. Banfield, jr., and F. O. Hoagland. 1,733,641; Oct. 29.  
 Oil cup. A. R. Havener. 1,711,230; Apr. 30.  
 Oil cup. D. P. Ordway and F. Hanlan. 1,722,308; July 30.  
 Oil cup, Self-closing. A. E. A. Strömberg. 1,736,229; Nov. 19.  
 Oil-cup structure. J. S. Reid. 1,720,348; July 9.  
 Oil, Dehydrating. E. W. Gard, B. G. Aldridge, and H. J. Multer. 1,739,834; Dec. 17.  
 Oil, Dewaxing of. E. B. Phillips and J. G. Stafford. 1,714,133; May 21.  
 Oil dispenser. L. W. Phelps and H. T. Haskins. 1,732,109; Oct. 15.  
 Oil-dispensing apparatus. B. Johnsen. 1,739,313; Dec. 10.  
 Oil, Distillation of. A. E. Miller. 1,714,097; May 21.  
 Oil-distributing system. O. Morgan and J. W. Stark. 1,736,933; Nov. 26.  
 Oil drain. V. Ciomel. 1,717,188; June 11.  
 Oil emulsions, Process of and apparatus for dewatering. I. Mościcki. 1,710,374; Apr. 23.  
 Oil feeding and discharge means for oil burners. G. W. Stark. 1,738,082; Dec. 3.  
 Oil-field jack. F. W. Stork. 1,721,718; July 23.  
 Oil-field-rejuvenating means. D. U. Powell. 1,726,041; Aug. 27.  
 Oil, Flooding method for recovering. L. C. Uren. 1,735,481; Nov. 12.  
 Oil, Flotation. R. Luckenbach. 1,722,528; July 30.  
 Oil, Flowing. E. P. Reynolds. 1,737,894; Dec. 3.  
 Oil from coal tar, Separating. A. Weindel. 1,722,872; July 30.  
 Oil from mineral-oil sulphonic bodies, Removing. C. Fischer, jr., and W. T. Reddish. 1,731,716; Oct. 15.  
 Oil from petroleum oil, Producing lubricating. J. B. Terry and R. A. Halloran. 1,721,719; July 23.  
 Oil from water and refuse materials, Separating. C. K. Morse. 1,702,613; Feb. 19.  
 Oil from wells, Raising. H. F. Scruby. 1,703,963; Mar. 5.  
 Oil-gas apparatus. A. J. Bassett. 1,698,526; Jan. 8.  
 Oil gas, Apparatus for making. A. E. Dickerman. 1,728,400; Sept. 17.  
 Oil gas, Apparatus for producing. F. T. Newitt, S. H. La Plant, and L. I. Turner. 1,715,775; June 4.  
 Oil gas, Manufacturing. A. J. Bassett. 1,698,526; Jan. 8.  
 Oil-gas process. J. E. Hackford. 1,723,418; Aug. 6.  
 Oil-gas process, Continuous. W. S. Yard and E. N. Percy. 1,703,506; Feb. 26.  
 Oil gas, System for the production of. F. T. Newitt, S. H. La Plant, and L. I. Turner. 1,701,892; Feb. 12.  
 Oil gauge. A. Bloch. 1,725,050; Aug. 20.  
 Oil gauge. F. M. Brittacher. 1,700,118; Jan. 29.  
 Oil gauge. F. M. Brittacher. 1,729,703; Oct. 1.  
 Oil gauge. W. E. Dillard. 1,706,108; Mar. 19.  
 Oil gauge. N. S. Lincoln. Des. 77,782; Feb. 19.  
 Oil guard for impression cylinders. C. W. Gaskell. 1,709,394; Apr. 16.  
 Oil guard, Valve-stem. A. E. Hutt. 1,711,267; Apr. 30.  
 Oil heater, Crank-case. V. N. Albertson. 1,726,206; Aug. 27.  
 Oil, Heating. J. Primrose. 1,738,263; Dec. 3.  
 Oil indicator, Automobile. C. R. Ruth. 1,699,924; Jan. 22.  
 Oil-injection-control device. W. G. Cox and G. M. Lagergren. 1,704,079; Mar. 5.  
 Oil, Lubricant. O. Rolfsen. 1,717,939; June 18.  
 Oil, Lubricating. K. G. Mackenzie and R. Haskell. 1,705,298; Mar. 12.  
 Oil, Lubricating. D. Stryker. 1,732,780; Oct. 22.  
 Oil, Manufacturing of lubricating. G. H. Taber, jr. 1,698,076; Jan. 8.  
 Oil, Method and apparatus for clarifying. C. G. Van Brunt. 1,703,647; Feb. 26.  
 Oil, Method and apparatus for rectifying lubricating. M. Czarny, R. and F. C. Frolander. 1,717,096; June 11.  
 Oil, Method and means for recovering. B. M. Cloud. 1,697,260; Jan. 1.  
 Oil motor. F. Lang. 1,732,901; Oct. 22.  
 Oil, oil emulsion, and making the same, Emulsifiable. H. Knight. 1,707,469; Apr. 2.  
 Oil or hydrocarbon burner, Rotary. J. Scheminger, jr. 1,707,774; Apr. 2.  
 Oil outlet, Adjustable. W. S. Montgomery. 1,723,197; Aug. 6.  
 Oil, Parasiticide. H. Knight. 1,707,470; Apr. 2.  
 Oil, Parasiticide. W. H. Volck. 1,707,468; Apr. 2.



- Oil, Process and apparatus for reclaiming waste. R. R. Rosenbaum. 1,708,488; Apr. 9.
- Oil products, Refining mineral. H. Blumenberg, jr. 1,716,103; June 4.
- Oil purifier. W. H. and M. F. McMachen. 1,698,600; Jan. 8.
- Oil purifier. W. H. and M. F. McMachen. 1,730,581; Oct. 8.
- Oil purifier and gas separator for internal-combustion engines. J. G. Rea. 1,718,800; June 25.
- Oil purifier for internal-combustion engines. S. I. Fekete, S. G. Baits, and H. M. Northrup. 1,732,645; Oct. 22.
- Oil Purifying. M. Luther and K. Pieroh. 1,732,371; Oct. 22.
- Oil-purifying apparatus. L. H. Clark. 1,741,756; Dec. 31.
- Oil-purifying apparatus for motor-propelled vehicles. T. H. Miller. 1,731,313; Oct. 15.
- Oil Purifying lubricating. C. L. Stokes. 1,741,348; Dec. 31.
- Oil-receiving box. S. Schwartz. 1,721,056; July 16.
- Oil reclaimers. C. Van Brunt and P. S. Miller. 1,703,644; Feb. 26.
- Oil reclaimers. C. Van Brunt and P. S. Miller. 1,703,648; Feb. 26.
- Oil, Reclaiming. C. Fischer, jr., and W. T. Reddish. 1,727,165; Sept. 3.
- Oil, Reclaiming lubricating. W. C. Rath. 1,735,546; Nov. 12.
- Oil-reclaiming process. C. Van Brunt. 1,713,200; May 14.
- Oil record, Automobile. R. E. Maxwell. 1,717,848; June 18.
- Oil-recovery and gasoline-extraction apparatus. I. L. Dunn and L. C. Mings. 1,721,010; July 16.
- Oil rectifier. F. E. Carter. 1,701,490; Feb. 12.
- Oil rectifier. R. L. Skinner. 1,741,482; Dec. 31.
- Oil rectifier. C. E. Summers. 1,712,944; May 14.
- Oil-rectifying system, Internal-combustion-engine. R. L. Skinner. 1,708,283; Apr. 9.
- Oil, Refining. T. C. Heisig. 1,728,059; Sept. 10.
- Oil-refining device. F. E. Aseltine. 1,705,041; Mar. 12.
- Oil refining, Mixing apparatus for. C. Leaver. 1,733,545; Oct. 29.
- Oil-regulating device. R. C. Hopkins. 1,739,360; Dec. 10.
- Oil, Renovating journal-box. T. W. Potter, L. C. McNamara, C. N. Lammers, and J. R. McLavy. 1,709,230; Apr. 16.
- Oil retainer for valve tappets. C. C. Fifield. 1,706,571; Mar. 26.
- Oil sands, Repressuring. J. O. Lewis. 1,735,646; Nov. 12.
- Oil saver. F. M. Stephens and A. P. Danaher. 1,704,152; Mar. 5.
- Oil saver, Tubing. P. Arbon. 1,713,364; May 14.
- Oil-separating apparatus. C. K. Morse. 1,702,612; Feb. 19.
- Oil separator. O. J. Kenyon. 1,710,990; Apr. 30.
- Oil separator. C. S. Lenz and G. E. Jupp. 1,708,021; Apr. 9.
- Oil separator. H. Yamamoto. 1,726,688; Sept. 3.
- Oil-soluble sulphates, Manufacture of. H. E. Buc. 1,707,506; Apr. 2.
- Oil stand, Portable revolving motor-. J. J. Moffa. 1,712,577; May 14.
- Oil stock, Treating lubricating-. A. H. Ackerman. 1,742,021; Dec. 31.
- Oil supply. E. P. Woodman. 1,705,845; Mar. 19.
- Oil-supply system for oil burners. E. W. Lueders. 1,711,272; Apr. 30.
- Oil switch. A. F. C. Lotz. 1,720,844; July 16.
- Oil switch. E. O. Schweitzer. 1,712,174; May 7.
- Oil-temperature control for internal-combustion engines. A. Tulowitz. 1,710,278; Apr. 23.
- Oil trap. O. G. Anderson. 1,706,990; Mar. 26.
- Oil, Treating. E. W. Gard, B. G. Aldridge, and H. J. Multer. 1,739,898; Dec. 17.
- Oil-water and air separator. E. H. Stephan. 1,714,825; May 28.
- Oil-well apparatus. J. A. Yerkes. 1,726,052; Aug. 27.
- Oil-well device. A. C. Bramer. 1,710,653; Apr. 23.
- Oil-well flowing and pumping apparatus. J. W. Taylor. 1,738,974; Dec. 10.
- Oil-well flowing apparatus. E. A. Watts. 1,741,489; Dec. 31.
- Oil-well heater. J. E. Hogle. 1,701,884; Feb. 12.
- Oil-well heater. J. A. Miller. 1,736,211; Nov. 19.
- Oil-well regulator. M. M. Robertson. 1,721,884; July 23.
- Oil-well slip and actuating same. K. P. Neilsen. 1,704,057; Mar. 5.
- Oil wells, Making production tests in. G. A. Macready. 1,697,249; Jan. 1.
- Oiler, Air-line. C. C. Hansen. 1,707,661; Apr. 2.
- Oiler, Air-line. A. E. Peters. 1,712,229; May 7.
- Oiler, Air-line. A. E. Peters. 1,715,674; June 4.
- Oiler and feeder, Combination hog. C. W. Hargraves. 1,734,035; Nov. 5.
- Oiler and motor cleaner, Combination spring. C. R. Buchet. 1,702,534; Feb. 19.
- Oiler, Animal. J. T. Chudomelka. 1,704,724; Mar. 12.
- Oiler, Band-saw. F. J. Willett. 1,700,275; Jan. 29.
- Oiler, Cable. P. Fish. 1,700,929; Feb. 5.
- Oiler, Force-feed. W. W. Clarke. 1,708,830; Apr. 9.
- Oiler, Journal. C. Servais and F. Kazmer. 1,736,374; Nov. 19.
- Oiler, Rail-joint. J. G. Reid. 1,701,506; Feb. 12.
- Oiler, Rotary. G. M. Eaton. 1,737,005; Nov. 26.
- Oiler, Spring. H. W. Otis. 1,730,379; Oct. 8.
- Oiler, Spring-leaf cover. B. G. Gilbough. 1,699,352; Jan. 15.
- Oiler, Track. E. R. Agner. 1,707,183; Mar. 26.
- Oiling device, Automatic. G. R. Sherman and A. R. Litsinger. 1,718,667; June 25.
- Oiling device for crank shafts. C. Retschy. 1,698,241; Jan. 8.
- Oiling mandrel centers, Device for. C. M. Seipt. 1,711,752; May 7.
- Oiling rack. C. P. Klein. 1,726,989; Sept. 3.
- Oiling system. T. Addison, R. Gillham, and G. Langen. 1,718,726; June 25.
- Oiling system. A. Nutt. 1,739,690; Dec. 17.
- Oiling system. T. P. Smith. 1,710,121; Apr. 23.
- Oiling system for internal-combustion engines. J. W. Pezold. 1,705,645; Mar. 19.
- Oiling system for the gear drive of gas electric auto busses or trucks. T. S. Kemble. 1,714,509; May 28.
- Oiling valve stems in internal-combustion engines by force feed, Device for. J. E. Hanson and A. J. Clark. 1,714,954; May 28.
- Oils and phenols from coal tar, Obtaining lubricating. A. Weindel. 1,726,638; Sept. 3.
- Oils, Apparatus and process of treating hydrocarbon. C. J. Greenstreet. 1,740,691; Dec. 24.
- Oils, Apparatus for pressure-distilling. G. Egloff and H. P. Benner. 1,729,035; Sept. 24.
- Oils, Apparatus for the reclamation of lubricating. C. F. Barb. 1,721,328; July 16.
- Oils, Apparatus for treating. G. W. Wallace. 1,714,198; May 21.
- Oils, Blending. T. Cox, M. L. Requa, and A. S. Knowles. 1,735,421; Nov. 12.
- Oils, Coking. D. R. Weller and L. Link. 1,741,895; Dec. 31.
- Oils, Containing and dispensing organization for motor. H. M. Berry. 1,721,941; July 23.
- Oils, Conversion of hydrocarbon. E. E. Bartels. 1,741,045; Dec. 24.
- Oils, Conversion of hydrocarbon. J. F. Donnelly. 1,712,789; May 14.
- Oils, Converting hydrocarbon. C. P. Dubbs. 1,703,100; Feb. 26.
- Oils, Converting petroleum. W. M. Cross. 1,717,007; June 11.
- Oils, Cracking. J. R. Mardick. 1,706,629; Mar. 26.
- Oils, Cracking hydrocarbon. E. C. Herthel. 1,721,779-80; July 23.
- Oils, Cracking hydrocarbon. E. C. Herthel and H. L. Pelzer. 1,714,091; May 21.
- Oils, Cracking hydrocarbon. E. W. Isom. 1,708,180; Apr. 9.
- Oils, Cracking hydrocarbon. E. W. Isom. 1,722,147; July 23.
- Oils, Cracking hydrocarbon. E. W. Isom. 1,722,223; July 23.
- Oils, Desulphurization of mineral. G. Egloff. 1,703,616; Feb. 26.
- Oils, Dewaxing. L. W. Naylor. 1,722,307; July 30.
- Oils, Distillation of. A. G. Peterkin, jr., W. F. Stroud, jr., and R. B. Chillas, jr. 1,709,874; Apr. 23.
- Oils, Distillation of hydrocarbon. W. W. Holland. 1,723,698; Aug. 6.
- Oils, Distilling. E. M. Clark and F. A. Howard. 1,710,404; Apr. 23.
- Oils, Distilling hydrocarbon. R. E. Wilson. 1,731,479; Oct. 15.
- Oils, fats, fatty acids, and waxes, Manufacture of sulphated. W. Seck. 1,734,050; Nov. 5.
- Oils from clay, Recovery of entrained. G. F. Olsen. 1,720,144; July 9.
- Oils from emulsions, Recovering. S. W. Cole. 1,700,627; Jan. 29.
- Oils from gases containing the same, Apparatus for recovering volatile. S. Yamamoto. 1,710,285; Apr. 23.
- Oils from mixed gas, Apparatus for recovering volatile. S. Yamamoto. 1,710,284; Apr. 23.
- Oils from oleaginous materials, Extracting. R. O. Boykin. 1,721,686; July 23.
- Oils into lighter oils, Converting heavier. R. H. J. Black. 1,737,634; Dec. 3.
- Oils, Modification of drying. J. E. Booge and C. Coolidge. 1,725,561; Aug. 20.
- Oils or gases, Making by-products from inactive and inert. C. S. Palmer. 1,699,627; Jan. 22.
- Oils, Process and apparatus for the cracking of hydrocarbon. G. W. Gray. 1,724,760; Aug. 13.
- Oils, Processing. L. J. Reizenstein. 1,715,785; June 4.
- Oils, Production of. F. W. Nitardy. 1,725,964; Aug. 27.
- Oils, Purifying hydrocarbon. L. Link and M. B. Amis. 1,718,714; June 25.
- Oils, Reclaiming lubricating. O. J. Nelson. 1,735,440; Nov. 12.
- Oils, Refining hydrocarbon. H. K. Ibrig. 1,712,619; May 14.
- Oils, Refining of hydrocarbon. R. H. Gardner and H. G. Hodge. 1,740,584; Dec. 24.
- Oils, Refining of hydrocarbon. H. L. Pelzer. 1,740,625; Dec. 24.
- Oils, Stabilizing clay-treated. G. F. Olsen. 1,724,510; Aug. 13.
- Oils to produce light oils, Cracking hydrocarbon. G. Egloff and H. P. Benner. 1,710,153; Apr. 23.
- Oils, Treating and purifying hydrocarbon lubricating. W. M. Stratford. 1,738,330; Dec. 3.



- Oils, Treating mineral. A. H. Ackerman. 1,742,020; Dec. 31.
- Oils without avoidable decomposition or discoloration, Distilling refined, cracked. F. C. Axtell. 1,738,518; Dec. 10.
- Ointments, and particularly water ointments, Manufacture of. F. Merz. 1,732,105; Oct. 15.
- Olefines from petroleum products, Separation of. R. M. Isham. 1,729,782; Oct. 1.
- Olla structure for dispensing beverages. A. L. Washburne. 1,728,646; Sept. 17.
- 1-diazo-anthraquinone-2-carboxylic acids, Production of. L. Eiffaender. 1,700,790; Feb. 5.
- 1-methyl-5-chlorobenzene-2-carboxamino-3-thyoglycolic acid, Making. E. Hoffa and J. and F. Müller. 1,703,145; Feb. 26.
- 1-methyl-2,4-dihalogen anthraquinone and making the same. R. Adams. 1,711,165; Apr. 30.
- 1-phenyl-benzanthrone compounds. W. Trautner, R. Berliner, and B. Stein. 1,713,571; May 21.
- 1-phenyl-benzanthrone compounds, Making. W. Trautner, B. Stein, and R. Berliner. 1,736,061; Nov. 19.
- 1-phenyl-methyl-5-pyrazolone, Preparing. H. Finkelstein and H. Häuber. 1,723,545; Aug. 6.
- 1-propenyl-3-ethoxy-4-hydroxy-benzene. F. Boedecker. 1,704,494; Mar. 5.
- 1,4-diaryl amino-5,8-dihydroxyanthraquinone, Making. K. Weinand. 1,713,576; May 21.
- 1,4-diamino-2-alkoxy-anthraquinone. P. Nawiasky. 1,736,083; Nov. 19.
- 1,8-naphthoxyphenanthrophen compounds, Manufacturing. J. Müller and M. Schubert. 1,709,277; Apr. 16.
- One-way device. J. and F. A. Reece. 1,718,074; June 18.
- Onion juice, Preparation of concentrated. C. Marx. Re17,324; June 11.
- Onion topper. C. F. Brower. 1,729,982; Oct. 1.
- Open-end wrench. B. B. Gillett. Re17,417; Aug. 27.
- Open-hearth furnace. T. J. Jamison. 1,717,107; June 11.
- Open-hearth furnace. R. B. Kernohan and J. S. Lochhead. 1,741,024; Dec. 24.
- Open-hearth furnace. S. Treverton. 1,741,666; Dec. 31.
- Open heater, Multistage. R. C. Jones. 1,715,456-7; June 4.
- Opener. P. E. Le Blan. 1,721,077; July 16.
- Opener and closure, Cigarette-package. S. A. Kornsweet. 1,725,869; Aug. 27.
- Opener and drinking attachment, Combined bottle-cap. E. B. Clark. 1,737,823; Dec. 3.
- Opener, Bottle-seal. M. D. Avillar. Des. 78,554; May 21.
- Opener, Can. E. L. and F. F. Girard. 1,742,140; Dec. 31.
- Opener, Can. E. D. Newkirk. 1,698,605; Jan. 8.
- Opener, Can. H. W. Otto. 1,739,413; Dec. 10.
- Opener, Can and bottle. J. Vattes. 1,741,259; Dec. 31.
- Opener, Egg. L. S. Hamilton. 1,727,465; Sept. 10.
- Opener, Envelope. A. M. Jensen. 1,740,018; Dec. 17.
- Opener for tins or the like containers. B. Pólak. 1,699,445; Jan. 15.
- Opener, Letter. E. Halmet. 1,703,341; Feb. 26.
- Opener, Oyster. E. Delonde. 1,741,015; Dec. 24.
- Opener, Oyster and clam. W. P. Vanace. 1,737,626; Dec. 3.
- Opening and closing garage doors, Mechanism for automatically. E. R. Frank. 1,734,899; Nov. 5.
- Opening and closing gate, Portable automatically-operated. S. A. Lowance. 1,713,235; May 14.
- Opening device, Bottle. T. B. Bradley. 1,741,607; Dec. 31.
- Opening milk bottles and the like. H. Cole. 1,699,607; Jan. 22.
- Opening switch, Quick-. W. A. Wulle. 1,730,599; Oct. 8.
- Operating and locking device, Automatic door. C. R. Trimble. 1,738,741; Dec. 10.
- Operating bar, Panic-door. C. J. Prinzler. Des. 78,714; June 11.
- Operating device for car couplers. C. L. Howard. 1,701,111; Feb. 5.
- Operating garage doors, Apparatus for. A. Martin. 1,700,848; Feb. 5.
- Operating means. A. H. Stebbins. 1,720,299; July 9.
- Operating means for circuit-controlling mechanism. W. M. Scott. 1,713,629; May 21.
- Operating means for curtains. C. L. Goldsmith and B. F. Wood. 1,721,622; July 23.
- Operating means for impellers. H. A. Palmer. 1,724,772; Aug. 13.
- Operating means for pilot lights, Safety automatic. E. A. Finn. 1,731,196; Oct. 8.
- Operating mechanism and control means therefor. E. H. Remde. 1,725,968; Aug. 27.
- Operating mechanism for clutches or the like. J. L. Rush-ton. 1,709,742; Apr. 16.
- Operating mechanism for veneer-cutting lathes. F. W. Milbourn. 1,729,957; Oct. 1.
- Operating railway-crossing gates. C. E. Miller. 1,714,393; May 21.
- Operating structure for clamshell buckets. D. G. Le Tourneau. 1,737,252; Nov. 26.
- Operating table. G. A. Gallowitz. 1,710,475; Apr. 23.
- Operating table. A. T. Whelan. 1,736,957; Nov. 26.
- Operating upon composite substances, Apparatus for. A. Fay. 1,741,763; Dec. 31.
- Ophthalmic lens. E. D. Tillyer. Re17,435; Sept. 17.
- Ophthalmic lens. E. D. Tillyer. 1,721,194; July 16.
- Ophthalmic mounting. N. M. Baker. 1,720,814; July 16.
- Ophthalmic mounting. E. J. R. Beatty. 1,706,343; Mar. 19.
- Ophthalmic mounting. E. J. R. Beatty. 1,741,806; Dec. 31.
- Ophthalmic mounting. E. J. R. Beatty and J. N. Nelson. 1,741,807; Dec. 31.
- Ophthalmic mounting. E. C. Bernheim. 1,708,207; Apr. 9.
- Ophthalmic mounting. W. H. Boutelle. 1,698,047; Jan. 8.
- Ophthalmic mounting. G. C. Favre. 1,721,181; July 16.
- Ophthalmic mounting. A. M. Levy. 1,742,163; Dec. 31.
- Ophthalmic mounting. J. N. Nelson. 1,701,332; Feb. 5.
- Ophthalmic mounting. J. N. Nelson. 1,713,546; May 21.
- Ophthalmic mounting. J. N. Nelson. 1,741,199; Dec. 31.
- Ophthalmic mounting. L. Poeton. 1,722,591; July 30.
- Ophthalmic mounting. W. S. Seales. 1,718,986; July 2.
- Ophthalmic mounting. F. A. Stevens. 1,708,206; Apr. 9.
- Ophthalmic mounting. F. A. Stevens and J. W. Welsh. 1,699,080-3; Jan. 15.
- Ophthalmic mounting. G. L. Tully. 1,727,455; Sept. 10.
- Ophthalmic mounting. W. L. Wall. 1,710,680; Apr. 30.
- Ophthalmic mounting. J. W. Welsh. 1,704,232; Mar. 5.
- Ophthalmic mounting. J. W. Welsh. 1,708,198-201; Apr. 9.
- Ophthalmic mounting. J. W. Welsh. 1,708,203; Apr. 9.
- Ophthalmic mounting. J. W. Welsh. 1,736,951; Nov. 26.
- Ophthalmic mounting. W. J. Wrighton. 1,721,170; July 16.
- Ophthalmic mounting and method. G. H. Day. 1,708,208; Apr. 9.
- Ophthalmic mounting, Bridge for. N. M. Baker. Des. 78,558; May 21.
- Ophthalmic mounting, Bridge for an. N. M. Baker. Des. 79,008; July 23.
- Ophthalmic mounting, Bridge for an. N. M. Baker. Des. 79,220; Aug. 20.
- Ophthalmic mounting, Bridge for an. H. A. Sangren. Des. 78,716; June 11.
- Ophthalmic mounting, Bridge for an. R. H. Simonds. Des. 79,270; Aug. 20.
- Ophthalmic mounting, End piece for an. C. O. Cozzens. Des. 77,936; Mar. 12.
- Ophthalmologic instrument. H. L. De Zeng. 1,720,035; July 9.
- Ophthalmological apparatus. H. Clement and G. S. Dey. 1,701,258; Feb. 5.
- Optical adjusting device. H. N. Cox. 1,735,108; Nov. 12.
- Optical advertising device. A. Trippe-Fürst. 1,721,014; July 16.
- Optical attachment for liquid pumps. E. Mosconi. 1,698,768; Jan. 15.
- Optical comparator. J. Hartness and R. W. Porter. 1,703,933; Mar. 5.
- Optical device. J. H. McNabb. 1,723,701; Aug. 6.
- Optical device for photographic, cinematographic, and other purposes. J. F. Romer. 1,722,356-7; July 30.
- Optical diagnostic instrument. H. L. De Zeng. 1,698,124; Jan. 8.
- Optical frame. E. Pappert. Des. 79,758; Oct. 29.
- Optical-inspection system. R. L. Jones. 1,722,751; July 30.
- Optical instrument. J. W. Gordon. 1,722,209; July 23.
- Optical instrument. G. L. Ljunglof. 1,698,057; Jan. 8.
- Optical instrument for the examination of spaces which are accessible only through narrow entrances. R. Jahr. 1,726,268; Aug. 27.
- Optical lever. L. B. Tuckerman. 1,736,682; Nov. 19.
- Optical mounting. F. A. Ubel. Des. 78,546; May 14.
- Optical projection apparatus, Automatic. F. Outrey. 1,696,968; Jan. 1.
- Optical projection device. W. L. Patterson. 1,727,900; Sept. 10.
- Optical pyrometer. A. Hayes. 1,716,775; June 11.
- Optical signaling device. N. P. Rashevsky. 1,709,809; Apr. 16.
- Optical system. H. N. Cox. 1,700,252; Jan. 29.
- Optical system. G. Loock. 1,706,930; Mar. 26.
- Optical system. W. L. Wright. 1,730,712; Oct. 8.
- Optical unit, Reflecting. C. Le R. Treleven. 1,735,815; Nov. 12.
- Orchard heater. R. Peter. 1,708,396; Apr. 9.
- Orchard heater. H. S. Phillips. 1,701,727; Feb. 12.
- Orchard heater, Lump-coal or coal-briquette. A. T. Karr. 1,713,659; May 21.
- Ordinance, Carriage for light. H. Schuler and F. Linder. 1,740,907; Dec. 24.
- Ordinance device. R. C. Browne. 1,707,112; Mar. 26.
- Ordinance material. E. W. Brandt. 1,730,800; Oct. 8.
- Ordinance material. G. A. Rupp. 1,729,550; Sept. 24.
- Ordinance particularly adapted for firing upon aircraft. Piece of. N. E. Methlin. 1,702,167; Feb. 12.
- Ore classifier. R. M. Bird. 1,715,693; June 4.
- Ore classifier. W. E. Endrezze. 1,714,007; May 21.
- Ore classifier. F. B. McConville. 1,726,404; Aug. 27.
- Ore deposits, Defecting. W. W. Davis. 1,724,794; Aug. 13.
- Ore dredging. J. F. Newsom. 1,719,442; July 2.
- Ore-dust treatment. C. V. McIntire. 1,711,153; Apr. 30.
- Ore-dotation apparatus and method. H. D. Hunt. 1,732,893; Oct. 22.
- Ore jig. R. L. Dennison. 1,726,388; Aug. 27.
- Ore, mineral, or other matter, and the product produced thereby, Agglomerating. P. Jung. 1,739,839; Dec. 17.
- Ore, Roasting fines. C. L. Levermore. 1,730,738; Oct. 8.
- Ore separator, Electro-magnetic. D. M. Crist. 1,729,095; Sept. 24.
- Ores and the like, Reducing. W. Buddéus. 1,732,788; Oct. 22.



- Ores, Beneficiating manganese. L. B. Miller and W. G. Rinehart. 1,736,615; Nov. 19.
- Ores by flotation, Concentration of. E. K. Bolton. 1,716,104; June 4.
- Ores by froth flotation, Concentration of. R. E. Sayre. 1,697,614; Jan. 1.
- Ores, Concentration of. R. S. Handy. 1,737,716; Dec. 3.
- Ores, Concentration of. J. L. Stevens. 1,722,598; July 30.
- Ores, Concentration of oxidized. J. T. Terry. 1,709,329; Apr. 16.
- Ores, Flotation of. A. H. Ney. 1,723,295; Aug. 6.
- Ores for the recovery of titanium, Treatment of. A. W. Gregory. 1,734,034; Nov. 5.
- Ores, Froth-flotation concentration of. C. H. Keller. 1,728,764; Sept. 17.
- Ores, Froth-flotation concentration of. C. P. Lewis. 1,723,243; Aug. 6.
- Ores, Process and apparatus for concentrating. J. F. Newsum. 1,709,365; Apr. 16.
- Ores, Reducing. B. Christiansen. 1,728,784; Sept. 17.
- Ores, Reduction of complex. F. O. Kichline. 1,717,160; June 11.
- Ores, Roasting and reducing. B. Christiansen. 1,732,672; Oct. 22.
- Ores, Separating metallic. R. W. Loyd and B. W. Moye. 1,727,472; Sept. 10.
- Ores, Treatment of. D. H. Mcintosh. 1,737,888; Dec. 3.
- Organ. E. Bawtree. 1,742,121; Dec. 31.
- Organ. J. H. Hammond, jr. 1,702,773; Feb. 19.
- Organ. E. S. Votey. 1,727,144; Sept. 3.
- Organ action, Pipe. F. J. Flaherty. 1,707,262; Apr. 2.
- Organ, Harmonic. J. H. Hammond, jr. 1,722,977; July 30.
- Organ mechanism. G. E. Losh. 1,723,287; Aug. 6.
- Organ, Mouth. O. B. Friedel. 1,702,538; Feb. 19.
- Organ pipe. J. H. Hammond, jr. 1,722,982; July 30.
- Organ, Pipe. A. Moorhouse and S. G. Bowman. 1,716,651; June 11.
- Organ, Pipe. H. F. Waters. Des. 78,909; July 2.
- Organ-pipe foot. F. McCollum. 1,712,152; May 7.
- Organ-pipe voice adjuster. H. R. Gottfried. 1,716,630; June 11.
- Organ-stop control. F. B. Converse. 1,740,155; Dec. 17.
- Organic compounds, Arsenating. E. Scheller. 1,704,106; Mar. 5.
- Organic compounds by means of aluminum chloride, Condensing. A. Zinke. 1,733,768; Oct. 29.
- Organic compounds, Catalytic oxidation of. A. O. Jaeger. 1,709,853; Apr. 23.
- Organic compounds, Catalytic oxidation of. A. O. Jaeger. 1,735,763; Nov. 12.
- Organic compounds, Reducing. D. G. Rogers. 1,721,319; July 16.
- Organic esters of cellulose and making the same, Mixed. H. T. Clarke and C. J. Malm. 1,704,282; Mar. 5.
- Organic products, Manufacture of valuable. A. Eisenhut and A. Auerhahn. 1,704,732; Mar. 12.
- Organs and the like, Combination stop mechanism for. F. J. Flaherty. 1,725,576; Aug. 20.
- Orifice element and system and apparatus utilizing the same. G. Campbell. 1,697,341; Jan. 1.
- Orifice mixer. C. L. Erickson. 1,698,432; Jan. 8.
- Ornament. L. S. Chilson. 1,718,947; July 2.
- Ornament. I. L. Rice. 1,738,613; Dec. 10.
- Ornament, Artificial-flower clothes. L. H. Hashimoto. Des. 79,884; Nov. 12.
- Ornament, Automobile radiator. C. L. Hawes. Des. 79,862; Sept. 10.
- Ornament, Automobile radiator-cap. A. A. Cameron. Des. 71,889; Jan. 8.
- Ornament, Automobile radiator-cap. P. Krone. Des. 78,825; June 25.
- Ornament, Button. J. Cohen. Des. 79,419; Sept. 17.
- Ornament, Cake. A. W. Krieg. 1,696,959; Jan. 1.
- Ornament, Christmas-tree. E. B. Wilson and A. K. Spencer. 1,703,438; Feb. 26.
- Ornament, Ear. C. Wehse. 1,732,250; Oct. 22.
- Ornament for a drapery-suspension fixture, End. F. L. O'Donnell. Des. 78,892-5; July 2.
- Ornament for a drapery-suspension fixture, End. F. J. Whincap. Des. 78,801; June 18.
- Ornament for a drapery-suspension fixture, Middle. F. J. Whincap. Des. 78,800; June 18.
- Ornament for automobiles. B. D. West. Des. 78,175; Apr. 2.
- Ornament for bobbed hair. E. Richter. 1,715,331; May 28.
- Ornament for curtain poles, End. F. J. Whincap. Des. 78,425; Apr. 30.
- Ornament for drapery rods or the like, Center. W. E. Smith. Des. 79,996-7; Nov. 26.
- Ornament for drapery rods or the like, End. W. E. Smith. Des. 79,995; Nov. 26.
- Ornament for drapery rods or the like, End. W. E. Smith. Des. 80,095; Dec. 10.
- Ornament for drapery-suspension fixtures, Middle. F. J. Whincap. Des. 78,073-4; Mar. 19.
- Ornament hanger for Christmas trees. C. H. Schutz. 1,703,901; Mar. 5.
- Ornament, Mirror. W. F. Kaynor. Des. 79,029-30; July 23.
- Ornament mounting. L. W. Gordon. 1,733,257; Oct. 29.
- Ornament mounting, Radiator. J. J. Wharam. 1,698,039; Jan. 8.
- Ornament or similar article, Automobile radiator cap. H. Kurilla. Des. 79,728; Oct. 29.
- Ornament, Radiator. G. H. Bougon. Des. 79,549; Oct. 8.
- Ornament, Radiator. B. Intingaro. Des. 80,122-4; Dec. 17.
- Ornament, Radiator. H. Jack. Des. 78,626; May 28.
- Ornament, Radiator. W. M. Petty. Des. 77,432; Jan. 8.
- Ornament, Radiator. W. E. Peyton. 1,708,631; Apr. 9.
- Ornament, Radiator. F. C. Ruppel. Des. 78,126; Mar. 26.
- Ornament, Radiator. A. Sancioni. 1,738,846; Dec. 10.
- Ornament, Radiator-cap. G. A. Briggs. Des. 79,550; Oct. 8.
- Ornament, Radiator-cap. B. Intingaro. Des. 79,333; Sept. 3.
- Ornament, Radiator-cap. E. McCartan. Des. 79,561; Oct. 8.
- Ornament, Radiator-cap. G. F. C. Paul. Des. 77,704; Feb. 12.
- Ornament, Radiator-cap. N. Tanquary. Des. 78,906; July 2.
- Ornament, Radiator-cap. I. L. Turner. Des. 78,950; July 9.
- Ornament, Radiator-cap. C. V. Wilson. Des. 80,101; Dec. 10.
- Ornament, Radio cabinet. C. E. Silver. Des. 77,714; Feb. 12.
- Ornament, Shoe. W. E. Smith. Des. 80,094; Dec. 10.
- Ornamental and educational device. A. Eisenberg. 1,728,960; Sept. 24.
- Ornamental box. W. Weisenberg. 1,735,191; Nov. 12.
- Ornamental device for decorative purposes, Illuminated. J. E. Beck. 1,722,886; July 30.
- Ornamental eyelet and article ornamented therewith. W. Hughes. 1,721,819; July 23.
- Ornamental papers and manufacturing same. J. MacLaurin. 1,724,672; Aug. 13.
- Ornamental structure. O. W. Arvidson. 1,734,954; Nov. 12.
- Ornamentation and producing same, Stone. E. A. Chase. 1,711,043; Apr. 30.
- Ornamentation for shoe insteps or the like, Face-mask. I. Goldberg. Des. 78,569; May 21.
- Ornamentation of metal surfaces. H. Lange. 1,697,190; Jan. 1.
- Ornamentation process and apparatus therefor. J. B. Campbell. 1,726,055-6; Aug. 27.
- Ornamenting foodstuffs. A. Martin. 1,710,369; Apr. 23.
- Ornamenting plates or blocks. J. Tully. 1,699,413; Jan. 15.
- Ornaments, Attachment for shoe. W. L. Myers and G. D. Harrison. 1,738,605; Dec. 10.
- Ornaments, Making cut-steel. M. M. Rivelis. 1,737,333; Nov. 26.
- Ornithopter. F. Nanke. 1,726,915; Sept. 3.
- Ortho-aminodiarylethers, Manufacturing. A. Zitcher. 1,703,915; Mar. 5.
- Ortho halogen-substituted aromatic quaternary ammonium compounds and making the same. G. Kalischer and K. Keller. 1,703,150; Feb. 26.
- Ortho-hydroxyazodyestuffs and making same. L. Laska and F. Weber. 1,706,927; Mar. 26.
- Orthopedic appliance. J. J. Ireland. 1,719,550; July 2.
- Orthopedic device. S. M. Freileweh. 1,708,757; Apr. 9.
- Oscillating aerating pipe. K. Imhoff. 1,727,601; Sept. 10.
- Oscillating apparatus. E. Mayer. 1,697,126; Jan. 1.
- Oscillating device. L. Greenberg. 1,739,587; Dec. 17.
- Oscillating joints and supports, Process and machine for manufacturing. L. Thiry. 1,739,270; Dec. 10.
- Oscillating system. G. H. Schieferstein. 1,737,772; Dec. 3.
- Oscillating system and loosely operative pneumatic couplings, Pneumatic. G. H. Schieferstein. 1,722,767; July 30.
- Oscillation absorber for leaf springs. P. Schuttler. 1,736,670; Nov. 19.
- Oscillation generator. E. F. W. Alexandersson. 1,698,290; Jan. 8.
- Oscillation generator. L. E. Barton. 1,738,346; Dec. 3.
- Oscillation generator. J. A. Miller. 1,714,689; May 28.
- Oscillation generator. F. M. Wiese. 1,719,495; July 2.
- Oscillation generator, High-frequency. A. H. Taylor. 1,735,808; Nov. 12.
- Oscillation production. R. A. Heising. 1,712,994; May 14.
- Oscillation system, High-frequency. A. H. Taylor and A. Crossley. 1,741,485; Dec. 31.
- Oscillations by means of alternating current at low frequency, Apparatus for the production of high-frequency. O. Scheller. 1,712,121; May 7.
- Oscillations from piezo-electric plates, Producing. A. Hund. 1,717,451; June 18.
- Oscillations in high-frequency systems, Elimination of disturbing. K. Schmidt and W. Hahnemann. 1,730,903; Oct. 8.
- Oscillations, Method of and apparatus for producing. T. Appleby. 1,719,956; July 9.
- Oscillator. A. C. Friedel. 1,703,664; Feb. 26.
- Oscillator, Crystal-controlled. I. F. Byrnes. 1,722,196; July 23.
- Oscillator generator. W. Schaffer. 1,719,521; July 2.
- Oscillator, High-frequency. F. Gerth and H. Schumacher. 1,739,299; Dec. 10.
- Oscillator, Piezo-electric. A. J. R. Fiego. 1,714,012; May 21.
- Oscillator, Piezo-electric crystal. A. Crossley. 1,738,041; Dec. 3.
- Oscillograph. J. W. Legg. 1,734,217; Nov. 5.



- Oscillograph galvanometer. J. W. Legg. 1,712,570; May 14.
- Osmotic absorption, Method and apparatus for promoting. H. Oppenheimer. 1,697,080; Jan. 1.
- Ottoman, settee, underbed wardrobe, and the like. J. Joseph. 1,733,411; Oct. 29.
- Outboard motor. G. Bizet. 1,707,897; Apr. 2.
- Outlet box. C. A. Johnson. 1,734,971; Nov. 12.
- Outlet box. J. J. Merrill. 1,735,331; Nov. 12.
- Outlet box. J. G. Raquette. 1,718,878; June 25.
- Outlet box. A. Wiebmer. 1,702,936; Feb. 19.
- Outlet box, Canopy conduit. J. T. Pearson and R. H. Olley. 1,701,117; Feb. 5.
- Outlet box, Conduit. W. G. Franke and L. A. Reiner. 1,724,999; Aug. 20.
- Outlet-box construction. G. C. Thomas, jr. 1,734,543; Nov. 5.
- Outlet boxes, Attaching device for. E. J. S. Swanson. 1,738,973; Dec. 10.
- Outlet, Convenience. R. T. Hughes. 1,740,652; Dec. 24.
- Outlet, Discharge. J. J. McBride. 1,727,659; Sept. 10.
- Outlet for tanks, Discharge. J. Beyer. 1,727,692; Sept. 10.
- Outlet locator. A. J. Peterson. 1,724,307; Aug. 13.
- Oven. J. Y. Brown. 1,727,960; Sept. 10.
- Oven. C. Burton. 1,704,280; Mar. 5.
- Oven. J. Faulds. 1,719,972; July 9.
- Oven. O. P. R. Lehmann. 1,734,138; Nov. 5.
- Oven. J. E. Pointon. 1,714,815; May 28.
- Oven. A. C. Sargent. 1,706,186; Mar. 19.
- Oven. A. Weaver. 1,715,730; June 4.
- Oven. D. C. Wooderson. 1,714,536; May 28.
- Oven. J. C. Woodson. 1,699,773; Jan. 22.
- Oven and the like. S. S. Thomas. 1,722,319; July 30.
- Oven apparatus, Coke. G. T. Bruun. 1,730,602; Oct. 8.
- Oven apparatus, Coke. F. Puening. 1,741,164; Dec. 31.
- Oven, Baker's. C. B. Comstock. 1,728,664; Sept. 17.
- Oven, Baking. G. A. Diemer. 1,712,031; May 7.
- Oven, Baking. C. Dumbleton. 1,709,526; Apr. 16.
- Oven, Baking. C. Dumbleton. 1,732,262; Oct. 22.
- Oven, Baking. L. D. Houllis. 1,697,357; Jan. 1.
- Oven, Broiler. W. F. and J. C. Rogers. 1,740,785; Dec. 24.
- Oven, Coke. M. Kelting. 1,726,494; Aug. 27.
- Oven, Coke. C. Otto. 1,698,272; Jan. 8.
- Oven, Coke. W. M. Person. 1,698,651; Jan. 8.
- Oven, Coke. A. Putsch. 1,705,029; Mar. 12.
- Oven, Coke. J. Van Ackeren. 1,714,933-4; May 28.
- Oven, Coking-retort. J. Becker. Re17,224; Feb. 26.
- Oven, Coking retort. J. Becker. 1,706,476; Mar. 26.
- Oven, Coking-retort. J. Becker. 1,721,763; July 23.
- Oven, Coking retort. J. van Ackeren. 1,705,841; Mar. 19.
- Oven, Coking retort. J. Van Ackeren. 1,707,419; Apr. 2.
- Oven construction. F. W. Cuffe. 1,728,108; Sept. 10.
- Oven construction. F. J. Ricker and C. E. Bleicher. 1,712,845; May 14.
- Oven construction. T. E. Taylor. Re17,438; Sept. 17.
- Oven construction, Range. F. F. Forshee. 1,710,770; Apr. 30.
- Oven-door rest. G. S. Morley. 1,702,517; Feb. 19.
- Oven, Drying. K. J. R. Robertson and A. Fowler. 1,742,099; Dec. 31.
- Oven, Electric. R. S. Heise. 1,717,605; June 18.
- Oven, Electric. R. H. MacInnes. 1,736,451; Nov. 19.
- Oven, Electrical. R. Reinhold. 1,707,318; Apr. 2.
- Oven, Electrically-heated. J. C. Woodson. 1,705,698; Mar. 19.
- Oven front. C. A. Pierson. 1,700,177; Jan. 29.
- Oven, Gas. J. F. Firestone. 1,726,735; Sept. 3.
- Oven, Gas. F. S. Scott. 1,716,534; June 11.
- Oven-heat regulator. R. W. Johnson. 1,713,832; May 21.
- Oven, Heat-treating. A. W. Morse. 1,734,871; Nov. 5.
- Oven, Niter. E. B. Rupard. 1,709,880; Apr. 23.
- Oven, Portable bake. R. M. Connor. 1,697,827; Jan. 1.
- Oven-pusher control, Coke. A. H. Chalmers. 1,729,327; Sept. 24.
- Oven, Radiant-heat. A. W. Morse. 1,734,870; Nov. 5.
- Oven, Regenerative coke. C. Otto. 1,707,537; Apr. 2.
- Oven, Retort. H. Koppers. 1,707,734; Apr. 2.
- Oven, Revolving ring-hearth. L. Honigmann and F. Bartling. 1,697,006; Jan. 1.
- Oven, Stove. B. B. Kahn. 1,717,222; June 11.
- Oven, Vertical coking. J. Lütz. 1,702,699; Feb. 19.
- Oven, Vertical retort. J. van Ackeren. 1,733,743; Dec. 10.
- Ovens, Fuel-gas distributing system for coke. J. Becker. 1,704,239; Mar. 5.
- Ovens, Pusher ram for coke. C. B. Collins and J. A. B. Lovett. 1,730,604; Oct. 8.
- Overall garment. R. E. Lee. 1,718,051; June 18.
- Overdrape. H. Plotkin. 1,708,107; Apr. 9.
- Overdrive transmission. B. Irwin. 1,722,091; July 23.
- Overload-actuated device. C. G. Koppitz. 1,714,675; May 28.
- Overload-control device, Automatic. T. S. Ramsdell. 1,714,105; May 21.
- Overseaming machine. M. Köbler. 1,715,372-3; June 4.
- Overshoe. W. J. Binder. 1,729,816; Oct. 1.
- Overshoe. C. Ferrettie. Des. 79,289; Aug. 27.
- Overshoe. R. T. Griffiths. Des. 78,811; June 25.
- Overshoe. G. L. Lawrence. 1,701,573; Feb. 12.
- Overshoe. R. L. Rice. 1,716,346; June 4.
- Overshoe. K. L. Valentine and G. Ramsey. 1,704,688; Mar. 5.
- Overshoe and method of manufacture. J. J. Gaughan. 1,702,864; Feb. 19.
- Overshoe, Athletic. C. A. Bianco and B. E. Kinley. 1,728,469; Sept. 17.
- Overshoe or similar article. H. P. Manville. Des. 79,155; Aug. 6.
- Overshoe, Slide-fastener. L. H. L'Hollier and F. Wray. 1,717,790; June 18.
- Overshoes, Attachment for. M. B. Frykman. 1,712,035; May 7.
- Overshoes, Making. R. E. Riley. 1,739,612; Dec. 17.
- Overshoes, Manufacturing. G. L. Lawrence. 1,701,891; Feb. 12.
- Overshoes, Waterproof upper for. A. A. Glidden and W. R. Hickler. 1,701,612; Feb. 12.
- Overshot. W. S. Jones. 1,734,468; Nov. 5.
- Overshot. J. C. Stokes and F. C. Gignoux. 1,719,144; July 2.
- Overwinding preventer. K. H. Meier. 1,699,617; Jan. 22.
- Oxidation. C. Ellis. 1,697,267; Jan. 1.
- Oxidation of aldoses. A. Stoll and W. Kussmaul. 1,703,755; Feb. 26.
- Oxidation of gaseous hydrocarbons, Partial. H. R. Curme. 1,729,711; Oct. 1.
- Oxidation of organic compounds, Catalytic. A. O. Jaeger. 1,722,297; July 30.
- Oxidation product and making same, Intermediate partial. J. H. James. 1,697,653; Jan. 1.
- Oxidation products of hydrocarbon oils, Process and apparatus for forming. G. Egloff and J. C. Morrell. 1,710,155; Apr. 23.
- Oxide cathode. K. M. Van Gessel. 1,699,939; Jan. 22.
- Oxide cathodes, Manufacture of. G. L. Hertz. 1,720,675; July 16.
- Oxide cathodes, Manufacture of. K. M. Van Gessel. 1,721,169; July 16.
- Oxides, Making inorganic. E. H. McLeod. 1,726,851-2; Sept. 3.
- Oxides of nitrogen, Liquefying. C. Beck and H. Diekmann. 1,741,906; Dec. 31.
- Oxides or oxide ores, Reducing. S. Westberg. 1,715,155; May 28.
- Oxides, Producing alkali-earth metal. W. L. Lawson. 1,729,428; Sept. 24.
- Oxides, Reduction of metallic. A. J. F. J. Cousin. 1,714,767; May 28.
- Oxidized surface and process therefor, Imitation. G. H. Reimer. 1,729,128; Sept. 24.
- Oxidizing ammonia. C. W. Davis. 1,706,055; Mar. 19.
- Oxidizing ammonia. F. G. Liljenroth. 1,725,462; Aug. 20.
- Oxidizing hydrocarbon oil, Apparatus for. J. C. Black and W. D. Rial. 1,718,679; June 25.
- Oxidizing kerosene. C. Ellis. 1,697,263; Jan. 1.
- Oxidizing petroleum. C. Ellis. 1,697,265; Jan. 1.
- Oxidizing petroleum oils. C. Ellis. 1,697,262; Jan. 1.
- Oxygen in freely-portable respiratory apparatus, Device for feeding additional. A. B. Dräger. 1,699,101; Jan. 15.
- Oxygen to combustion chambers, Apparatus for supplying. A. O. Higinbotham. 1,711,944; May 7.
- Oxygen to combustion chambers, Supplying. A. O. Higinbotham. 1,711,943; May 7.
- Oxysalt composition, Manufacture and use of. C. Catlett. 1,726,472; Aug. 27.
- Ozonator. H. V. McPartland. 1,725,661; Aug. 20.
- Ozone, Arrangement for the manufacture of. W. Esmarch. 1,702,254; Feb. 19.
- Ozonizer. A. W. Conley. Des. 77,891; Mar. 5.
- Pack-carrying device. S. F. Rhodes. 1,714,819; May 28.
- Pack-opening machine. G. M. Mowl. 1,724,849; Aug. 13.
- Package. B. Gittleman. 1,716,628; June 11.
- Package. W. A. Heffer. 1,710,164; Apr. 23.
- Package. J. C. Nelson. 1,709,034; Apr. 16.
- Package. E. C. Pagel and S. W. Treat. 1,714,692; May 28.
- Package. C. L. Stokes. 1,701,316; Feb. 5.
- Package. E. L. Smith and F. B. Fuller. 1,718,441; June 25.
- Package. J. H. Van Sickels. 1,702,325; Feb. 19.
- Package. W. C. Weischel. 1,697,891; Jan. 8.
- Package and dispenser for gummed tape. I. McHenry. 1,708,701; Apr. 9.
- Package and making same, Poultry. J. C. Hormel, H. H. Corey, and E. J. Cashman. 1,740,176; Dec. 17.
- Package and making the package. C. Field. 1,730,923-5; Oct. 8.
- Package and method of sealing, Hermetically-sealed. A. Podel. 1,739,692; Dec. 17.
- Package and producing the same. H. E. Townsend. 1,719,405; July 2.
- Package, Commercial. R. W. Griswold. 1,727,878; Sept. 10.
- Package, Condiment. D. O. Ford. 1,705,970; Mar. 19.
- Package end folding device. J. A. Neumair and H. H. Wheeler. 1,721,527; July 23.
- Package, Food. G. G. Barber. 1,705,849; Mar. 19.
- Package for drinking cups and dispensing device, Sanitary. P. A. Fischer, H. Schoen, and A. M. and J. M. Goldstein. 1,723,232; Aug. 6.
- Package for fragile articles. J. T. Fagan. 1,723,021; Aug. 6.
- Package for toilet and like articles and fastening means therefor. J. J. Sullivan. 1,702,622; Feb. 19.
- Package, Hermetically-sealed. A. Podel. 1,725,101; Aug. 20.
- Package, Novelty. E. H. Hacker. 1,725,073; Aug. 20.
- Package of boxes of matches. W. E. Williams. 1,710,393; Apr. 23.



- Package of interfolded sheets. G. A. Shaffer. 1,707,581; Apr. 2.
- Package of sensitized material for X-ray. F. C. Martin. 1,698,058; Jan. 8.
- Package or container for liquids. S. J. Haigney. 1,741,154; Dec. 31.
- Package, Paper. W. Fairchild. 1,706,220; Mar. 19.
- Package, Plant-ball. J. T. Lovett, jr. 1,709,860; Apr. 23.
- Package, Refrigerating shipping. W. L. Wright. 1,707,836; Apr. 2.
- Package, Tin-plate. H. D. Scott. 1,735,548; Nov. 12.
- Packaging. H. F. Taylor. 1,710,386; Apr. 23.
- Packaging apparatus. G. J. Huntley. 1,709,577; Apr. 16.
- Packaging fruit and the like. G. K. S. Ferguson. 1,732,264; Oct. 22.
- Packaging machine. W. S. Cleaves. 1,739,061; Dec. 10.
- Packaging machine. R. N. Doble. 1,700,672; Jan. 29.
- Packaging machine. R. N. Doble. 1,726,060; Aug. 27.
- Packaging machine. L. H. Morin. 1,712,513; May 14.
- Packaging machine. E. E. Slocumb. 1,726,929; Sept. 3.
- Packaging machine. O. T. Thompson. 1,708,686; Apr. 9.
- Packaging machines, Cover-placing mechanism for. C. N. Bergmann. 1,705,279; Mar. 12.
- Packaging materials. W. L. Blows. 1,726,523; Sept. 3.
- Packaging means. O. A. Ross. 1,697,613; Jan. 1.
- Packaging merchandise and knockdown box therefor. D. Nelson. 1,713,087; May 14.
- Packaging of confections. L. G. Roskam. 1,713,301; May 14.
- Packer. W. H. Burstall. 1,710,203; Apr. 23.
- Packer for combined tubing catchers and anchors. E. V. Crowell. 1,699,050; Jan. 15.
- Packer for wells. J. H. McEvoy. 1,734,040; Nov. 5.
- Packer, Fruit. A. H. Phillips. 1,727,250; Sept. 3.
- Packer, Fruit-basket. G. O. Reshaw. 1,737,518; Nov. 26.
- Packer head. W. W. Fry. 1,726,292; Aug. 27.
- Packer, Oil-well. P. H. Mack. 1,722,102; July 23.
- Packers, Gas-control attachment for. P. H. Mack. 1,700,325; Jan. 29.
- Packet, Manicure. F. C. Battistella. 1,716,336; June 4.
- Packing. C. Clanin. 1,698,876; Jan. 15.
- Packing. A. J. Haug. 1,715,597; June 4.
- Packing. C. R. Hubbard. 1,712,003; May 7.
- Packing. J. Le May. 1,735,466; Nov. 12.
- Packing. R. Marsland. 1,732,761; Oct. 22.
- Packing. N. B. Miller. 1,709,086; Apr. 16.
- Packing. C. A. Neal. 1,720,563; July 9.
- Packing. F. E. Payne. 1,714,725; May 28.
- Packing. W. Rautenstrauch. 1,698,654; Jan. 8.
- Packing. J. M. Ryan. 1,727,732; Sept. 10.
- Packing. H. T. Stewart. 1,698,660; Jan. 8.
- Packing. W. A. Warburton and A. J. Cormier. 1,720,066; July 9.
- Packing, Acid-resisting. W. Rautenstrauch. 1,698,655; Jan. 8.
- Packing and making. N. E. Johnson. 1,721,155; July 16.
- Packing and making the same. R. B. Kellogg. 1,734,470; Nov. 5.
- Packing and mulching implement. L. T. Rasmussen. 1,698,451; Jan. 8.
- Packing and testing machine, Can. G. A. Smith. 1,698,030; Jan. 8.
- Packing apparatus and method. D. W. Wadsworth. 1,712,859; May 14.
- Packing articles with material, Apparatus for. M. L. Jeffrey and F. L. Snyder. 1,719,806; July 2.
- Packing box. L. Eshleman. 1,720,889; July 16.
- Packing box. M. Spitzer. Re17,351; July 2.
- Packing caramels or confections. J. W. Trauger and C. J. Smethers. 1,719,635; July 2.
- Packing case. C. White. 1,712,782; May 14.
- Packing case, Convertible. M. F. Roser. 1,725,211; Aug. 20.
- Packing cashew nuts, Apparatus for. T. M. Rector. 1,726,766; Sept. 3.
- Packing device. W. B. Doran. 1,726,732; Sept. 3.
- Packing device. C. W. Gerlach. 1,728,753; Sept. 17.
- Packing device for automatic sack-weighting machines. J. W. Reuther. 1,730,295; Oct. 1.
- Packing, Device for cooling. O. Behimer. 1,716,162; June 4.
- Packing device for filled-can-closing machines. G. Flook. 1,702,111; Feb. 12.
- Packing device for pipe joints. S. J. Stiennon. 1,703,018; Feb. 19.
- Packing, Double cross-expansion. C. Lamb and D. R. Radford. 1,706,031; Mar. 19.
- Packing electric and like bulbs. J. Brownlie and G. M. Woodhouse. 1,732,575; Oct. 22.
- Packing for a fluid under pressure, Metallic. B. P. Joyce and C. V. Lorrain. 1,700,894; Feb. 5.
- Packing for air-brake cylinders and the like. G. Christenson. 1,715,406; June 4.
- Packing for fragile articles. A. Moore. 1,725,291; Aug. 20.
- Packing for fragile objects, Cellular. L. Schwartzberg. 1,706,082; Mar. 19.
- Packing for hoods of automobiles. L. H. Gilmer. 1,727,201; Sept. 3.
- Packing for high-pressure joints. J. C. Solberg. 1,725,836; Aug. 27.
- Packing for inserted pumps, Compensating. J. A. Yerkes and R. H. Lemmon. 1,713,808; May 21.
- Packing for metallurgical refractories, Reactive. C. S. Hollander and E. L. Helwig. 1,741,128; Dec. 24.
- Packing for oil-well stuffing boxes. B. P. Hoffman. 1,705,566; Mar. 19.
- Packing for reciprocating pistons. T. J. McNulty. 1,717,114; June 11.
- Packing for shafts. V. E. Nelson. 1,706,181; Mar. 19.
- Packing for valves, liquid-level gauges, piston rods, plungers, and the like. H. S. Hele-Shaw and E. Tribe. 1,697,516; Jan. 1.
- Packing fruit, Apparatus for. J. F. Weatherly. 1,735,624; Nov. 12.
- Packing gland. F. R. Simpson. 1,720,696; July 16.
- Packing, Labyrinth-gland. K. Baumann. 1,708,044; Apr. 9.
- Packing loose particles of food. M. Rosen. 1,733,998; Oct. 29.
- Packing material for fruits. H. Blumenberg, jr. 1,702,103; Feb. 12.
- Packing means for combs to prevent distortion of the teeth. R. Sager. 1,727,116; Sept. 3.
- Packing, Metal. G. Verdict. 1,720,065; July 9.
- Packing, Metallic. F. J. Owen. 1,740,780; Dec. 24.
- Packing, Metallic. F. G. Peck. 1,734,019; Oct. 29.
- Packing of rubber heels. G. O'Gorman. 1,729,797; Oct. 1.
- Packing of weirs. T. Becher. 1,707,039; Mar. 26.
- Packing, Piston. N. H. Blomgren. 1,726,380; Aug. 27.
- Packing, Piston. S. A. Bowman. 1,735,596; Nov. 12.
- Packing, Piston. H. S. Burnham. 1,708,256; Apr. 9.
- Packing, Piston. N. A. Christensen. 1,727,366; Sept. 10.
- Packing, Pressure-fluid. B. P. Joyce. 1,721,737; July 23.
- Packing, Recessed. G. Christenson. 1,712,603; May 14.
- Packing ring. N. G. Bruce. 1,700,091; Jan. 22.
- Packing ring. V. E. Nelson. 1,722,478; July 30.
- Packing ring. W. K. Queen. 1,716,977; June 11.
- Packing ring. J. A. Zublin. 1,700,012; Jan. 22.
- Packing ring for pumps. R. H. Forney. 1,706,445; Mar. 26.
- Packing ring for the valves or other reciprocating parts of fluid-pressure engines. H. R. Ricardo. 1,740,037; Dec. 17.
- Packing ring, Segmental metallic. R. A. Light and J. W. Price, jr. 1,718,242; June 25.
- Packing rings for use with pistons and piston rods. T. Madsen. 1,725,660; Aug. 20.
- Packing, Rod or stem. F. H. Pike. 1,700,746; Feb. 5.
- Packing shingles. C. A. Latimer. 1,716,783; June 11.
- Packing sleeve for overshots. E. H. Williams. 1,740,849; Dec. 24.
- Packing steam surface condensers. J. N. Walton. 1,714,703; May 28.
- Packing-supporting device. C. O. McCall. 1,708,481; Apr. 9.
- Packing tobacco. H. P. Taylor. 1,720,014; July 9.
- Packing tray or device. H. B. Tighe. 1,715,685; June 4.
- Packing unit. H. A. Knox. 1,740,428; Dec. 17.
- Pad: See—
- |                         |                   |
|-------------------------|-------------------|
| Absorbent pad.          | Heating pad.      |
| Air pad.                | Hospital pad.     |
| Bathtub pad.            | Lining pad.       |
| Bed pad.                | Manifolding pad.  |
| Blotter pad.            | Maternity pad.    |
| Cleaning pad.           | Neck pad.         |
| Corn pad.               | Perspiration pad. |
| Curling pad.            | Recoil pad.       |
| Desk pad.               | Seat pad.         |
| Face-heating pad.       | Shoulder pad.     |
| Garment pad.            | Sink pad.         |
| Hair-waving pad.        | Stamp pad.        |
| Hand pad.               | Steel-wood pad.   |
| Harness and collar pad. | Table pad.        |
- Pad. J. C. Brown. 1,734,961; Nov. 12.
- Pad for athletes, Protective. D. Levinson. 1,733,160; Oct. 29.
- Pad for boot heels, Interchangeable. R. Schwabbauer. 1,732,621; Oct. 22.
- Pad for hair-waving processes. W. S. Lewis and J. C. Murray. 1,719,555; July 2.
- Pad for mattresses, Compensating. R. W. Taylor. 1,742,108; Dec. 31.
- Pad for pressing machines, Self-drying. E. Davis. 1,700,488; Jan. 29.
- Pad for shoes, Resilient sole. W. Fischer. 1,701,260; Feb. 5.
- Pad for telephone-pole climbers, Sponge-rubber. B. E. Katz. 1,727,237; Sept. 3.
- Pad for wind musical instruments, Key. F. A. Buescher. 1,702,962; Feb. 19.
- Pad rack. O. P. Holbrook. 1,710,826; Apr. 30.
- Padding for rolls. J. H. Uhlig. 1,726,781; Sept. 3.
- Padding, Resilient. J. J. Hoerger. 1,707,663; Apr. 2.
- Pads in slippers, Apparatus for placing heel. W. T. Horne. 1,733,264; Oct. 29.
- Paddle as an aid to swimming, Hand. G. G. Robertson. 1,715,571; June 4.
- Paddle device. P. Ryan. 1,708,331; Apr. 9.
- Paddle for impact type of pulverizers. W. W. Pettibone. 1,711,964; May 7.
- Paddle, Swimming. H. Hammett. 1,717,026; June 11.
- Padlock. S. R. Fraim. 1,704,184; Mar. 5.
- Padlock. S. R. Fraim. 1,710,355; Apr. 23.
- Padlock. E. Gornicec. 1,714,019; May 21.
- Padlock. E. N. Jacobi. 1,703,193; Feb. 26.
- Padlock. N. G. Johnson. 1,728,612; Sept. 17.
- Padlock. J. Junkune. 1,722,525; July 30.
- Padlock. W. R. Maxwell. 1,734,819; Nov. 5.
- Padlock. J. Pietrie. 1,698,201; Jan. 8.



- Padlock. F. Schori. 1,726,861; Sept. 3.  
 Padlock. W. W. Werner. 1,719,637; July 2.  
 Padlock. H. Williams. 1,718,723; June 25.  
 Padlock, Combination. S. Cohen. 1,728,902; Sept. 17.  
 Padlock, Combination. J. Poturnaj. 1,716,184-5; June 4.  
 Padlock, Combination. F. Soley. 1,703,790; Feb. 26.  
 Padlock, Laminated. H. E. Soref. 1,718,606; June 25.  
 Padlock, Permutation. J. Coiro. 1,712,476; May 7.  
 Page-end lock. J. Hoellrigl. 1,726,487; Aug. 27.  
 Page indicator and retainer, Book-. C. Curti. 1,712,137; May 7.  
 Page-turning device. F. Hossell and W. H. Peterman. 1,735,166; Nov. 12.  
 Paging system. J. Duross. 1,719,396; July 2.  
 Pail and handle therefor. Paper. L. E. La Bombard and M. H. Sidebotham. 1,707,528; Apr. 2.  
 Pail, Dinner. V. E. Boland. 1,730,403; Oct. 8.  
 Pail, Minnow. W. A. Moore. 1,742,046; Dec. 31.  
 Pail, Minnow. L. A. Zobe. 1,709,424; Apr. 16.  
 Pail with wringing attachment. Mop. T. Finstad. 1,722,130; July 23.  
 Pails, Bail ear for. J. W. Seigh. 1,723,257; Sept. 17.  
 Paint. J. J. Horak. 1,717,924; June 18.  
 Paint. A. Mills. 1,720,135; July 9.  
 Paint and varnish liquid and making same. C. M. A. Stine, C. Coolidge, and E. B. Middleton. 1,700,778; Feb. 5.  
 Paint and varnish. Material and process for removing. J. H. Gravell. 1,700,491; Jan. 29.  
 Paint and varnish remover. A. and H. D. Tremain. 1,714,530; May 28.  
 Paint and varnish remover. J. M. Verderosa. 1,739,744; Dec. 17.  
 Paint box. K. Beindorff. 1,699,388; Jan. 15.  
 Paintbrush. A. J. May. 1,699,004; Jan. 15.  
 Paint brush, Fountain. L. G. Walker. 1,733,144; Oct. 29.  
 Paint, Fireproofing and weather-resisting. N. M. Hopkins. 1,706,733; Mar. 26.  
 Paint from cylinders and containers. Apparatus for removing. H. W. Cole and M. W. McLaren. 1,716,165; June 4.  
 Paint from cylinders and containers. Removing. H. W. Cole and M. W. McLaren. 1,736,846; Nov. 26.  
 Paint gun. T. Birkenmaier. 1,703,384; Feb. 26.  
 Paint gun. H. W. Rose. 1,726,412; Aug. 27.  
 Paint mixer. H. S. Rambo. 1,714,436; May 21.  
 Paint, Red-lead. C. D. Fahsel. 1,697,388; Jan. 1.  
 Paint roller. F. J. Lynch. 1,733,893; Oct. 29.  
 Paint shield. C. Morgana and H. T. Platz. 1,697,200; Jan. 1.  
 Paint stirrer. L. G. Copes. 1,732,714; Oct. 22.  
 Paint, Tree. W. G. Cornelius. 1,730,724; Oct. 8.  
 Paint, Water. A. P. Goodell and G. W. Tarr. 1,700,404; Jan. 29.  
 Painting and preserving art glass. J. MacQuarrie. 1,724,211; Aug. 13.  
 Painting instrument. J. M. Christman. 1,728,043; Sept. 10.  
 Painting machine. J. O. Olson. 1,725,719; Aug. 20.  
 Painting machine. S. J. Southey, Jr. 1,738,738; Dec. 10.  
 Paints. Producing pigmentary base products for lead. A. V. Blom. 1,736,066; Nov. 19.  
 Pajama pants. C. F. Trageser. 1,740,554; Dec. 24.  
 Pajamas. H. A. Maril and P. Marnell. 1,699,401; Jan. 15.  
 Pallet-feeding machine, Automatic. W. W. Wallace. 1,716,349; June 4.  
 Palette, Painter's. G. Sakier. 1,719,403; July 2.  
 Pan: See—  
   Ash pan. Ink pan.  
   Baking pan. Oil and chip pan.  
   Cake pan. Pie or cake pan.  
   Frying pan. Pie pan.  
   Ice-box pan. Scraper pan.  
 Pan. F. Mossberg. 1,699,372; Jan. 15.  
 Pan for cookers, Inset. R. N. Kircher. 1,698,914; Jan. 15.  
 Pan for outboard motors, Drip. D. W. King and F. T. Irgens. 1,734,910; Nov. 5.  
 Pan-greasing machine. S. Debus. 1,724,643; Aug. 13.  
 Pan-greasing machine. A. B. Peffer. 1,717,807; June 18.  
 Pan lifter. M. Halsted. 1,735,500; Nov. 12.  
 Pan lifter. J. Kennedy and H. Riead. 1,716,780; June 11.  
 Pan lifter. K. E. Porter. 1,721,354; July 16.  
 Pan-spit device, Roasting-. E. Bocchino. 1,741,400; Dec. 31.  
 Pan structure, Multiple-. A. Prabell. 1,740,999; Dec. 24.  
 Pans, Apparatus for applying grease to baking. P. Wilcox. 1,717,080; June 11.  
 Pane, Hinged. G. H. Dawson. 1,733,296; Oct. 29.  
 Pane retainer. C. H. Campbell. 1,700,727; Jan. 29.  
 Panel and molding retainer, Variable. A. G. Dawson. 1,741,979; Dec. 31.  
 Panel board. G. W. Berthold. 1,729,145; Sept. 24.  
 Panel-board and switch construction. R. B. Benjamin. 1,700,757; Feb. 5.  
 Panel board, Electric. W. Wurdack. 1,715,689; June 4.  
 Panel board, Residence. C. E. Hannay. 1,740,862; Dec. 24.  
 Panel construction. J. S. Williamson. 1,724,333; Aug. 13.  
 Panel construction, Instrument-. H. C. M. Stevens. 1,718,262; June 25.  
 Panel for lamp shades or similar articles. M. Kushner. Des. 79,194; Aug. 13.  
 Panel for lighting fixtures. S. Weichsel. Des. 79,679; Oct. 22.  
 Panel for mattress coverings, Textile. H. Haug. Des. 77,548-9; Jan. 22.  
 Panel, Illuminated. J. Zubaty. 1,697,802; Jan. 1.  
 Panel, Illuminated instrument. L. Blackmore. 1,697,806; Jan. 1.  
 Panel, Illuminated instrument. A. Champion. 1,727,632; Sept. 10.  
 Panel, instrument. A. Champion. 1,738,639; Dec. 10.  
 Panel main switch, Narrow-type. H. G. Baxter and H. K. Krantz. 1,730,311; Oct. 1.  
 Panel structure, Access-. C. Traut. 1,707,240; Apr. 2.  
 Panel-trim clamp. H. K. Krantz and H. G. Baxter. 1,729,879; Oct. 1.  
 Panels, Securing trim. B. C. Place. 1,722,944; July 30.  
 Panorama-exhibiting apparatus. C. von Hofe. 1,708,746; Apr. 9.  
 Pantograph current collector. G. W. Bower. 1,728,819; Sept. 17.  
 Pantograph, Parallelogram-type. T. P. Lampe. 1,707,914; Apr. 2.  
 Pantographic apparatus. E. J. Rowe. 1,698,278; Jan. 8.  
 Pantographic-reproducing apparatus. R. E. Gray. 1,734,573; Nov. 5.  
 Pants. W. A. Crego and C. W. Andrews. 1,698,674; Jan. 8.  
 Pants cuff. C. W. Mastin. 1,709,799; Apr. 16.  
 Pants for babies, Half. A. Tyler. 1,723,317; Aug. 6.  
 Pants or trousers construction. F. L. McMullen. 1,701,049; Feb. 5.  
 Paper aligner for billing machines. L. F. Hagemann. 1,734,374; Nov. 5.  
 Paper and mail box. J. H. Keeran. 1,712,827; May 14.  
 Paper and making same, Noglare writing. W. G. Reynolds. 1,721,576; July 23.  
 Paper and making the same. L. Kirschbraun and A. L. Clapp. 1,708,926; Apr. 9.  
 Paper and making the same, Patterned. E. D. Lake. 1,711,953; May 7.  
 Paper and manufacturing the same, Gummed. W. W. McLaurin. 1,719,712; July 2.  
 Paper and producing the same, Greaseproof and waterproof. A. L. Clapp. 1,706,841; Mar. 26.  
 Paper and producing the same, Waterproof. A. L. Clapp. 1,706,840; Mar. 26.  
 Paper and producing the same, Waterproof. A. L. Clapp. 1,727,003; Sept. 3.  
 Paper and product thereof, Making. A. L. Kennedy. 1,730,009; Oct. 1.  
 Paper and resulting product, Making fast-colored crepe. G. H. Saylor. 1,732,540; Oct. 22.  
 Paper, Apparatus for making. R. E. Argy. 1,712,374; May 7.  
 Paper, Apparatus for making. L. Kirschbraun. 1,722,432; July 30.  
 Paper, Apparatus for producing crepe. W. H. Cannard. 1,716,260; June 4.  
 Paper, Apparatus for surfacing. J. M. W. Kitchen. 1,734,297; Nov. 5.  
 Paper bag. T. H. Hammond. 1,716,818; June 11.  
 Paper bag. S. Reich. 1,714,277; May 21.  
 Paper bag. H. W. Vierengel. 1,712,779; May 14.  
 Paper-blank feeder. S. F. Tojek. 1,718,318; June 25.  
 Paperboard and making the same, Impervious. G. H. Ellis. 1,717,878; June 18.  
 Paperboard, Manufacturing. L. M. Booth. 1,729,992; Oct. 1.  
 Paper box. A. H. Dreux. 1,735,853; Nov. 19.  
 Paper box. E. W. Labombarde. 1,711,991; May 7.  
 Paper box. H. G. Norwood. 1,707,680; Apr. 2.  
 Paper box. L. J. Russell. 1,698,072; Jan. 8.  
 Paper box. F. J. Schleicher. Re17,183; Jan. 1.  
 Paper box. F. J. Schleicher. Re17,328; June 18.  
 Paper box. I. H. Vonnegut. 1,741,261; Dec. 31.  
 Paper box. H. R. Warren. 1,715,583; June 4.  
 Paper box, Folded. L. E. Arneson. 1,711,823; May 7.  
 Paper box, Knockdown. W. A. Fellowes. 1,724,648; Aug. 13.  
 Paper, boxboard, and the like, Method and apparatus for making. F. B. Wells. 1,718,096; June 18.  
 Paper clip. H. E. Butler. 1,700,977; Feb. 5.  
 Paper clip. J. G. Gordon. Des. 77,689; Feb. 12.  
 Paper clip. S. Talisman. 1,734,653; Nov. 5.  
 Paper, Coating. D. B. Bradner. 1,733,524; Oct. 29.  
 Paper-coating composition. A. Ruderman. 1,723,581; Aug. 6.  
 Paper-converting machinery. F. W. Egan and J. O. Ross. 1,714,261; May 21.  
 Paper-crinkling machine. W. A. Lorenz. 1,702,166; Feb. 12.  
 Paper cup. C. Barbieri. 1,715,025; May 28.  
 Paper cup. C. S. Batdorf. 1,714,293; May 21.  
 Paper cup, Collapsible. M. H. Lockwood. 1,738,779; Dec. 10.  
 Paper cup, Collapsible. W. J. Main. 1,738,782; Dec. 10.  
 Paper-cup machine. C. F. Smith. 1,710,246; Apr. 23.  
 Paper cups, Manufacture of. J. V. Weckbaugh. 1,717,427; June 18.  
 Paper cutter. H. C. Kirk. Des. 77,811; Feb. 26.  
 Paper cutting and vending machine. R. D. Parks. 1,710,001; Apr. 23.  
 Paper disk stopper for milk bottles and the like, Water-resistant. C. Ellis. 1,739,582; Dec. 17.  
 Paper-dispensing device. G. W. Hancock. 1,718,143; June 18.  
 Paper-dispensing device, Roll-. G. R. Brooks. 1,712,419; May 7.



- Paper-dispensing package. Z. W. Ranck. 1,739,560; Dec. 17.
- Paper, Document. T. J. Snyder. 1,727,912; Sept. 10.
- Paper drier. S. B. Stafford and J. W. Vedder. 1,731,876; Oct. 15.
- Paper-drier installation, Combination. J. E. Alexander. 1,726,134; Aug. 27.
- Paper driers, Vacuum-chamber seal for. J. E. Alexander. 1,713,485; May 14.
- Paper drinking cup, Impregnated individual. J. D. Reif-snyder. 1,703,638; Feb. 26.
- Paper-ejecting mechanism for printing machines. A. F. Williams. 1,720,984; July 16.
- Paper-elevator control for automatic sheet feeders, Auto-matic. L. K. Aldrich. 1,711,076; Apr. 30.
- Paper-excelsior machine. L. J. Antonsen. 1,731,967; Oct. 15.
- Paper feed for typewriters. O. Schlichter. 1,740,438; Dec. 17.
- Paper-feeding machine. F. L. Cross and H. Hallstream. 1,736,340; Nov. 19.
- Paper-feeding mechanism. H. A. Foothorap. 1,730,566; Oct. 8.
- Paper-folding device. W. W. Woodruff. 1,697,673; Jan. 1.
- Paper-folding machine. J. Q. Sherman and A. W. Metzner. 1,699,165; Jan. 15.
- Paper-folding machines, Glue pot for. H. S. Labombarde. 1,711,992; May 7.
- Paper for paper boxes, Wrapping. F. P. Smalley. Des. 78,903; July 2.
- Paper for paper napkins or similar articles, Embossed. J. B. Rieg. Des. 78,986; July 16.
- Paper-gumming machine, Rotary. J. G. Huye. 1,704,797; Mar. 12.
- Paper-handling machine. W. Glasgow. 1,707,979; Apr. 9.
- Paper machine. A. Aldrich. Re17,381; July 30.
- Paper machine. R. E. Argy. 1,712,375; May 7.
- Paper-machine drive, Sectional. C. L. Henderson. 1,708,270; Apr. 9.
- Paper-machine drive train, Variable-speed. H. F. Dunbar. 1,698,189; Jan. 8.
- Paper machine, Fourdrinier. A. Aldrich and E. E. Berry. 1,726,973; Sept. 3.
- Paper machine, Multiple-wire. P. Erkens. 1,727,162; Sept. 3.
- Paper machine, Multiply. H. F. Weiss. 1,737,283; Nov. 26.
- Paper machine, Removable Fourdrinier. A. Aldrich and E. E. Berry. 1,700,301; Jan. 29.
- Paper machine, Removable-type Fourdrinier. A. Aldrich and E. E. Berry. 1,715,531; June 4.
- Paper machinery. H. L. Kutter. 1,721,699; July 23.
- Paper machines, Attachment for. E. O'Brien. 1,702,129; Feb. 12.
- Paper machines, Driving device for. F. Wyss. 1,709,296; Apr. 16.
- Paper machines, Wire guide for. F. Ciborowski. 1,712,378; May 7.
- Paper making. L. M. Booth. 1,713,642; May 21.
- Paper, Making. R. B. Daniels. 1,729,571; Sept. 24.
- Paper making. C. A. Tiff. 1,708,434; Apr. 9.
- Paper-making machine. A. Aldrich. 1,723,834; Aug. 6.
- Paper-making machine. J. D. Beatty. 1,736,570; Nov. 19.
- Paper-making machine. A. E. Bridge. 1,709,112; Apr. 16.
- Paper-making machine. R. Collins. 1,701,226; Feb. 5.
- Paper-making machine. G. H. Harvey. 1,736,400; Nov. 19.
- Paper-making machine. H. L. Kutter. 1,729,350; Sept. 24.
- Paper-making machine. W. H. Millspaugh. 1,715,615; June 4.
- Paper-making machine. C. E. Pope. 1,714,238; May 21.
- Paper-making machine. P. Priem. 1,702,131; Feb. 12.
- Paper-making machine. R. E. Read. 1,734,879; Nov. 5.
- Paper-making machine. C. W. Valentine and A. F. Helin. 1,713,988; May 21.
- Paper-making machine. J. W. Vedder. 1,734,929; Nov. 5.
- Paper-making machine. M. R. Ware. 1,737,781; Dec. 3.
- Paper-making machine. S. C. Wentz. 1,709,760; Apr. 16.
- Paper-making machine, Removable-type Fourdrinier. A. Aldrich and E. E. Berry. 1,715,528-30; June 4.
- Paper-making machinery. H. L. Kutter. 1,709,026; Apr. 16.
- Paper-making machines, Flow control for flow boxes of. E. E. Berry. 1,727,928; Sept. 10.
- Paper-making machines, Paper-feeding means for. R. Carpenter. 1,732,835; Oct. 22.
- Paper-making machines, Slice for. P. J. Lamoureux. 1,726,440; Aug. 27.
- Paper-making machines, Stock-controlling means for. J. R. Spoor. 1,741,347; Dec. 31.
- Paper-making machines, Suction box for. G. S. Carroll. 1,732,925; Oct. 22.
- Paper-making method and apparatus. J. A. De Cew. 1,704,728; Mar. 12.
- Paper-making method and machine. W. H. Millspaugh. 1,718,573; June 25.
- Paper-making method and machine. W. H. Millspaugh. 1,718,574; June 25.
- Paper-making method and machine. W. H. Millspaugh. 1,722,503; July 30.
- Paper-making method and machine. W. H. Millspaugh. 1,739,038; Dec. 10.
- Paper making, Method of and apparatus for forming a web in. A. J. Haug. 1,708,724; Apr. 9.
- Paper, Making straw. E. B. Weston and W. G. Clark. 1,740,132; Dec. 17.
- Paper, Making waterproof. L. Kirchbraun. 1,723,355; Aug. 6.
- Paper manufacture. J. A. Heany. 1,716,776; June 11.
- Paper, Manufacture of. D. K. Pattillo and J. H. Mac-Mahon. 1,733,071; Oct. 22.
- Paper manufacturing. M. M. Serebrianoi. 1,724,522; Aug. 13.
- Paper-manufacturing system. L. S. Rosener and D. H. Patterson, jr. 1,704,216; Mar. 5.
- Paper material and hood cover embodying the same. W. L. Wright. 1,723,709; Sept. 17.
- Paper, Method and apparatus for making. G. A. Mour-laque. 1,710,375; Apr. 23.
- Paper, Method and apparatus for making. A. W. Smith. 1,725,108; Aug. 20.
- Paper, Method of and apparatus for finishing glassine. P. W. Bidwell. 1,739,572; Dec. 17.
- Paper, Method of and apparatus for manufacturing. J. Traquair. 1,707,333; Apr. 2.
- Paper mills, Operation of. D. K. Pattillo and J. H. Mac-Mahon. 1,733,070; Oct. 22.
- Paper mitt, Toilet-tissue-. C. B. Lambert. 1,731,340; Oct. 15.
- Paper napkin or the like. P. H. Horwitt. Des. 78,707; June 11.
- Paper or board and making the same, Oil and grease proof liner. A. L. Clapp. 1,741,556; Dec. 31.
- Paper or similar clamp. R. A. Breitenbach. 1,719,422; July 2.
- Paper or the like, Cover. W. S. Fowler. Des. 78,881; July 2.
- Paper or the like, Cover. R. C. Kahrman. Des. 77,964; Mar. 12.
- Paper or the like, Cover. A. Labram. Des. 78,106-7; Mar. 26.
- Paper or the like, Wall. F. E. Leitch. Des. 78,871; June 25.
- Paper out of peat, Making. C. C. Roth. 1,721,974; July 23.
- Paper package and display cover therefor. H. E. Kondolf. 1,741,369; Dec. 31.
- Paper package, Rolled. A. R. Rapp. 1,726,312; Aug. 27.
- Paper, Process and apparatus for making. M. R. Ware. 1,732,176; Oct. 15.
- Paper, Producing copying. E. Hodler. 1,705,405; Mar. 12.
- Paper product. C. Ellis. 1,739,580; Dec. 17.
- Paper, Production of. D. K. Pattillo and J. H. MacMahon. 1,737,330; Nov. 26.
- Paper-pulping engine. W. Werner. 1,712,598; May 14.
- Paper-punching device. R. Suda. 1,732,954; Oct. 22.
- Paper-registering device. W. Reinhold. 1,709,096; Apr. 16.
- Paper remover, Wall. E. J. Thoenes and G. Frankey. 1,741,257; Dec. 31.
- Paper-roll carrier, Toilet-. J. B. Kissam. 1,700,265; Jan. 29.
- Paper-roll mounting for autographic registers. T. W. Widenmann. 1,705,514; Mar. 19.
- Paper-roll package. G. A. Shaffer. 1,726,927; Sept. 3.
- Paper-roll stand. A. J. Cline. 1,732,740; Oct. 22.
- Paper rolls for the web change, Preparing. H. A. W. Wood. 1,739,381; Dec. 10.
- Paper rope carrier. T. Page. 1,740,261; Dec. 17.
- Paper, Safety. R. E. Kember. Des. 78,889; July 2.
- Paper, Safety. W. M. Prizer. Des. 77,707; Feb. 12.
- Paper, Safety. W. M. Prizer. Des. 78,786; June 18.
- Paper, Saturating. R. P. Rose. 1,705,537; Mar. 19.
- Paper-scoring device. G. De Pamphilis. 1,709,564; Apr. 16.
- Paper, Seasoning. G. E. Maxner. 1,710,706; Apr. 30.
- Paper, Securing together of sheets of. P. von Vágó and J. Páldy. 1,697,212; Jan. 1.
- Paper sheathing. G. F. Voight. 1,699,259; Jan. 15.
- Paper sheets, cards, or the like, Apparatus for forming a deckle edge upon. H. C. Thomas. 1,733,921; Oct. 29.
- Paper, Softening. K. H. Meyer, J. Müller, and U. Hoff-mann. 1,731,679; Oct. 15.
- Paper stock, Apparatus for seasoning and rectifying. G. E. Foggel. 1,725,764; Aug. 27.
- Paper strip. J. C. Sherman. 1,716,866; June 11.
- Paper, Wall. L. L. Blake. Des. 77,388; Jan. 8.
- Paper, Wall. S. M. Kirshner. Des. 77,965; Mar. 12.
- Paper, Wall. J. H. Whitwell. Des. 80,002-3; Nov. 26.
- Paper, Wall. J. H. Whitwell. Des. 80,100; Dec. 10.
- Papers having a glossy surface, Producing. A. Schmidt, G. Balle, and K. Franz. 1,703,961; Mar. 5.
- Parachute. C. Broadwick. 1,737,913; Dec. 3.
- Parachute. J. De Witt. 1,705,909; Mar. 19.
- Parachute. B. L. Elliott. 1,727,279; Sept. 3.
- Parachute. G. Furmanik. 1,703,001; Feb. 19.
- Parachute. G. M. Simmons. 1,740,044; Dec. 17.
- Parachute carrier and release. F. B. Fisher, jr. 1,718,551; June 25.
- Parachute-deflating means. J. M. Henvis. 1,733,732; Oct. 29.
- Parachute device for aircraft, Safety. C. S. Hall. 1,720,041; July 9.
- Parachute equipment for aeroplanes. S. F. Stevens. 1,702,422; Feb. 19.
- Parachute for airplanes. W. J. Hall and C. F. Willard. 1,704,891; Mar. 12.
- Parachute for flying machines. F. L. Grissom and J. W. Garrett. 1,731,491; Oct. 15.



- Parachute, Message-carrying. E. Dapp. 1,712,296; May 7.
- Parachute pack. H. R. McClintock. 1,712,307; May 7.
- Parachute pack. J. M. Russell. 1,712,309; May 7.
- Parachute, Safety. J. Barwick. 1,723,122; Aug. 6.
- Parachute, Ventilated. O. A. Baker. 1,714,753; May 28.
- Parachutes, Spring opener for pilot. J. J. Coughlin. 1,705,854; Mar. 19.
- Paraffin, Manufacturing. C. A. Ward. 1,718,672; June 25.
- Paraffin, Obtaining solid. J. F. P. Schönfeld. 1,724,731; Aug. 13.
- Parallel bar, Gymnasium. F. Albach. 1,734,664; Nov. 5.
- Paramagnetic ores from their diamagnetic contents, Separating. H. P. Osborne, C. C. Farmer, and R. B. Teeter. 1,729,008; Sept. 24.
- Parapet and fire walls on roofs of buildings and waterproofing same. F. P. Luther. 1,710,484; Apr. 23.
- Parasiticide and making the same. R. G. Mewborne. 1,731,678; Oct. 15.
- Parasol and umbrella. O. I. Kahn. 1,741,846; Dec. 31.
- Parcel-sorting device. J. R. Sousa. 1,740,378; Dec. 17.
- Parcel carrier for baby carriages and the like. H. and S. Sparks. 1,708,906; Apr. 9.
- Parcel or luggage carrier. H. G. Kimball. 1,718,962; July 2.
- Parcels or other objects, Device for holding. B. J. Brunzell. 1,719,753; July 2.
- Paring machine, Nut-. J. F. Kohler. 1,732,757; Oct. 22.
- Paring or grating of root vegetables, Device for the. A. H. J. Möllerström. 1,711,120; Apr. 30.
- Paris green insecticide. B. F. Wallace. 1,738,089-90; Dec. 3.
- Parking device, Automobile. E. B. Hess. 1,709,400; Apr. 16.
- Parking device for automobiles. H. H. Hall. 1,728,407; Sept. 17.
- Parking device for automobiles. P. Jensen. 1,736,498; Nov. 19.
- Parking dolly. P. R. Wiley. 1,709,421; Apr. 16.
- Parking indicator. L. J. Purcell. 1,719,560; July 2.
- Parking indicator for automobiles. W. A. Clark. 1,714,157; May 21.
- Parking mechanism. M. O. De Camp. 1,740,920; Dec. 24.
- Parking stations, Claim check for. P. J. Rossman. 1,702,318; Feb. 19.
- Particles suspended in liquids, Apparatus for the precipitation of. K. T. R. Lundgren. 1,730,776; Oct. 8.
- Parting strip. L. M. Pratt. 1,731,542; Oct. 15.
- Partition. A. G. Dawson. 1,716,624; June 11.
- Partition. G. E. Gaston. Des. 77,542-3; Jan. 22.
- Partition. C. Gordée. 1,729,439; Sept. 24.
- Partition, Adjustable. U. C. Thies. 1,707,693; Apr. 2.
- Partition and like building blocks, Manufacture of. I. Pick. 1,734,826; Nov. 5.
- Partition bracket. J. Taussig. 1,734,407; Nov. 5.
- Partition construction. A. G. Dawson. 1,716,625; June 11.
- Partition construction. C. J. Swanson. 1,706,469-70; Mar. 26.
- Partition construction. C. J. Swanson. 1,726,595-6; Sept. 3.
- Partition construction, Plastered building-. J. K. Mays and H. A. Snively. 1,734,685; Nov. 5.
- Partition for banks, offices, and other similar places. E. G. Gassen. 1,703,580; Feb. 26.
- Partition for banks, offices, and other similar places. E. G. Gassen. 1,714,305; May 21.
- Partition for railway cars. E. N. Grim. 1,719,367; July 2.
- Partition insert, Interchangeable. E. F. Hauserman, L. D. Mowery, and J. A. Bohnsack. 1,725,350; Aug. 20.
- Partition, Interior. P. Feldman and M. Yacker. 1,739,830; Dec. 17.
- Partition, Metal. E. F. Hauserman, L. D. Mowery, W. R. McClenaghan, and T. E. Murrell. Re17,440; Sept. 24.
- Partition or gate, Adjustable. F. Rommel. 1,700,646; Jan. 29.
- Partition post. J. H. Simon. 1,717,740; June 18.
- Partition, Refrigerator-car. H. B. Meinhardt. 1,704,758; Mar. 12.
- Partition, Soundproof folding. C. J. Thye. 1,698,744; Jan. 15.
- Partition strip for composition flooring. W. G. Kelleweay. 1,740,179; Dec. 17.
- Partition unit, Sectional. J. A. Bohnsack. 1,724,821; Aug. 13.
- Partition wall. S. F. Corby and J. Wasp. 1,739,665; Dec. 17.
- Partition wall. S. F. Corby and J. Wasp. 1,739,666; Dec. 17.
- Passageway-control mechanism. F. Hedley and J. S. Doyle. 1,724,932; Aug. 20.
- Passageway drive mechanism. A. K. Pehrson. 1,706,362; Mar. 19.
- Passageway drive mechanism for articulated car units. F. Koch. 1,706,358; Mar. 19.
- Passageway drive mechanism for articulated car units. A. K. Pehrson. 1,706,363-4; Mar. 19.
- Passageway member for an articulated car unit. F. Koch. 1,709,025; Apr. 16.
- Pass case. O. Halvorsen and W. T. Seibels. Re17,327; June 18.
- Paste and making same, Color-printing. J. G. Kern and C. J. Sala. 1,705,818; Mar. 19.
- Pasteboard box. E. Wolf. 1,715,021; May 28.
- Paste cut-out. C. W. Oman. 1,726,449; Aug. 27.
- Paste discharger. K. Warmuth. 1,715,878; June 4.
- Paste ejector. B. W. King. 1,741,991; Dec. 31.
- Paste, Hot joint. W. Hoskins. 1,699,294; Jan. 15.
- Paste in dry cells, Precooking. L. M. Currie. 1,737,188; Nov. 26.
- Paste jar. A. Paulson. 1,715,144; May 28.
- Paste jar. A. Paulson. 1,734,444; Nov. 5.
- Paste of bituminous materials, Making water. L. C. Jones, C. C. Loomis, and H. W. Banks. 3d. 1,699,536; Jan. 22.
- Paste, Strop-honing. J. L. Lander and G. N. White. 1,730,773; Oct. 8.
- Paste, Surface-protecting. E. Teupel. 1,697,936; Jan. 8.
- Pasted accumulator grid or plate. W. Haddon and J. M. Burnett. 1,710,617; Apr. 23.
- Pasters, Making high-speed. E. W. Hammer. 1,738,002; Dec. 3.
- Pasting device, Label-. W. L. Hampton and V. A. Tracy. 1,740,981; Dec. 24.
- Pasting machine, Automatic grid-. H. J. McKenzie. 1,706,799; Mar. 26.
- Pasteurizing apparatus. J. H. Godfrey. 1,734,570-1; Nov. 5.
- Pasteurizing apparatus. F. W. Kelly and A. H. Luedicke. 1,738,834; Dec. 10.
- Pasteurizing apparatus. D. A. Maanum and A. J. Davis. 1,728,424; Sept. 17.
- Pasteurizing liquids, Apparatus for. A. Jensen. 1,701,777; Feb. 12.
- Pastry board. I. Weston. 1,702,144; Feb. 12.
- Pastry-cone-making machine. A. Marchiony. 1,708,143; Apr. 9.
- Pastry container. O. Hauge. Des. 78,691; June 4.
- Pastry-filling machine. G. G. Barber. 1,737,069; Nov. 26.
- Pastry-making machine. E. Klahn. 1,729,112; Sept. 24.
- Pastry-making machine. J. D. Lapkin. 1,732,096; Oct. 15.
- Pastry mixer. J. M. Sudduth. 1,697,837; Jan. 1.
- Patch strip for tag-patching machines. L. A. Maclean. 1,701,240; Feb. 5.
- Pattern: See—  
Garment pattern.
- Pattern. J. D. Du Mont. 1,708,568; Apr. 9.
- Pattern and making the same. G. M. Laub. 1,717,983; June 18.
- Pattern-copying machine. G. F. Ryan and E. H. Burke. 1,733,207; Oct. 29.
- Pattern-copying machine. L. E. Topham. 1,713,792; May 21.
- Pattern-copying machine. L. E. Topham. 1,716,672; June 11.
- Pattern effects upon textile goods, Production of. G. Heberlein. 1,739,965-6; Dec. 17.
- Pattern mechanism for circular-knitting machines. H. E. Houseman. 1,707,807; Apr. 2.
- Pattern stab, Automatic. E. E. Brinser. 1,717,352; June 18.
- Pavement. J. F. Driscoll. 1,707,055; Mar. 26.
- Pavement. W. H. Flood. 1,717,445; June 18.
- Pavement. H. H. Smith. 1,711,547; May 7.
- Pavement. E. V. Spence. 1,704,771; Mar. 12.
- Pavement. J. B. Strauss. 1,739,102; Dec. 10.
- Pavement. C. Wright. 1,730,259; Oct. 1.
- Pavement and laying the same, Composite bituminous. M. L. Gordon. 1,717,769; June 18.
- Pavement and manufacturing the same. C. A. Mullen. 1,705,333; Mar. 12.
- Pavement and preparing same. G. M. Souter. 1,720,101; July 9.
- Pavement, Apparatus for compacting. R. H. Hebden. 1,700,797; Feb. 5.
- Pavement construction. H. A. Myers. 1,721,464; July 16.
- Pavement construction, Apparatus and method for. L. R. MacKenzie. 1,707,089; Mar. 26.
- Pavement-finishing machine, Concrete-. O. L. Kipp. Re-17,176; Jan. 1.
- Pavement, Impact method of making. L. R. MacKenzie. 1,718,863; June 25.
- Pavement insert. T. J. Barrett. 1,720,162; July 9.
- Pavement-joint-filling machine. T. Fitzgerald. 1,698,015; Jan. 8.
- Pavement, Railway-crossing. H. E. Muchnic. 1,703,686; Feb. 26.
- Pavement, Railway-crossing. H. E. Muchnic. 1,725,410; Aug. 20.
- Pavement resurfacers. P. J. Owens. 1,702,546; Feb. 19.
- Pavement wearing course, Making a. L. R. MacKenzie. 1,729,835; Oct. 1.
- Pavements, Apparatus for manufacturing. C. A. Mullen. 1,733,198; Oct. 29.
- Pavements, Making a wear course for. L. R. MacKenzie. 1,729,884; Oct. 1.
- Pavements, Repairing cuts in. L. Fox. 1,707,391; Apr. 2.
- Pavements, roads, treads, and the like, Wearing surface of. T. Gare. 1,738,571; Dec. 10.
- Pavements, Wear course for. L. R. MacKenzie. 1,707,939; Apr. 2.
- Paving. R. C. Heath. 1,701,497; Feb. 12.
- Paving block and manufacturing the same, Nonmetallic. A. H. Leipert. 1,733,610; Oct. 29.



- Paving blocks and slab made of rubber compound. E. Draullette. 1,728,991; Sept. 24.
- Paving machine. F. E. Greene. 1,717,704; June 18.
- Paving machines, Spreading attachment for concrete. J. F. Robb. 1,717,734; June 18.
- Pea sheller, Green-. J. W. Coggins. 1,704,427; Mar. 5.
- Peanut-branding machine. A. Obici. 1,735,471; Nov. 12.
- Peanut heater. G. Chamales. 1,712,330; May 7.
- Peanut-picking machine. P. L. Morris. 1,704,805; Mar. 12.
- Pear peeler. N. M. Sleeper. 1,726,722; Sept. 3.
- Pearls and cultivated pearls, Distinguishing between natural. C. Chilowsky and F. Perrin. 1,730,190; Oct. 1.
- Peat-fuel machine. R. E. Ober. 1,738,665; Dec. 10.
- Pedal, Accelerator. C. B. Wright. 1,708,820; Apr. 9.
- Pedal and accelerator, Combined foot brake. V. G. Brochon. 1,711,988; May 7.
- Pedal, Automobile. H. I. N. Yost. 1,711,712; May 7.
- Pedal control for motor vehicles. G. G. Thorpe. 1,718,884; June 25.
- Pedal cover. M. M. Swain. 1,706,003; Mar. 19.
- Pedal for bicycles and the like. J. H. Graham. 1,703,444; Feb. 26.
- Pedal-operated press. L. E. McDonough. 1,721,917; July 23.
- Pedal-operating mechanism. C. F. Stoddard. 1,734,607; Nov. 5.
- Pedal protector. A. Dölling. 1,736,309; Nov. 19.
- Pedestal base. M. Peinlich. Des. 78,169; Apr. 2.
- Pedestal brace. L. D. Gregg. 1,730,036; Oct. 1.
- Pedestal construction for loud-speakers and the like. C. L. Farrand and E. Ross. 1,707,802; Apr. 2.
- Pedestal for an exercising machine. N. E. Goodrich. Des. 77,951; Mar. 12.
- Pedestal for lamps, Supporting. A. R. Kanné. Des. 78,161; Apr. 2.
- Pedestal, Smoking. C. P. Toops. 1,710,123; Apr. 23.
- Pedestal support for a motion-picture-projection machine. A. Dina. Des. 77,941; Mar. 12.
- Pedestal, Truck. F. W. Hankins and C. D. Young. 1,724,798; Aug. 13.
- Pecier, Vegetable. C. E. A. O'Loughlin. 1,739,517; Dec. 17.
- Peeling and coring pears, Device for. C. B. Spencer and L. M. Canaday. 1,699,034; Jan. 15.
- Peeling and washing fruits and vegetables, Apparatus for automatically. B. Meisler. 1,714,313; May 21.
- Peeling fruit, Apparatus for. H. M. Shields. 1,699,995; Jan. 22.
- Peeling fruits. O. J. Steinwand. 1,721,929; July 23.
- Peeling machine. G. P. Anstiss. 1,701,435; Feb. 5.
- Peeling machine, Potato-. J. M. Westgaard. 1,728,846; Sept. 17.
- Peeling machine, Vegetable-. C. B. McCathron. 1,730,517; Oct. 8.
- Peeling peaches. M. Barody. 1,717,647; June 18.
- Pen. H. Chrisman. 1,715,117; May 28.
- Pen and ink stand. N. R. Waters. 1,735,446; Nov. 12.
- Pen and pencil clamp. J. O. Brown. 1,704,075; Mar. 5.
- Pen and pencil, Combination. H. E. Haught. 1,738,367; Dec. 3.
- Pen and pencil, Combination fountain. C. R. Sheaffer. Des. 78,794; June 18.
- Pen and pencil mount. E. E. Johnson. 1,741,368; Dec. 31.
- Pen and tray. A. H. Coale. 1,704,175; Mar. 5.
- Pen assembling, Fountain-. J. C. Wahl. 1,735,224; Nov. 12.
- Pen, Cartridge. R. T. Pollock. 1,724,106; Aug. 13.
- Pen clips, Forming fountain-. W. P. McAlpine. 1,702,656; Feb. 19.
- Pen filler, Fountain-. F. B. Chamberlin. 1,700,401; Jan. 29.
- Pen for india ink, Fountain mathematical drawing. F. G. L. Allen and E. C. Bender. 1,718,887; June 25.
- Pen, Fountain. J. C. Alford. 1,711,006; Apr. 30.
- Pen, Fountain. F. M. Ashley. 1,698,384-5; Jan. 8.
- Pen, Fountain. F. M. Ashley. 1,726,420; Aug. 27.
- Pen, Fountain. D. Bense. 1,725,973; Aug. 27.
- Pen, Fountain. R. I. Brong. 1,717,955; June 18.
- Pen, Fountain. G. Coby. Des. 79,456; Sept. 24.
- Pen, Fountain. F. C. Deli and W. D. Groseclose. 1,733,781; Oct. 29.
- Pen, Fountain. G. W. Elmwall. 1,735,566; Nov. 12.
- Pen, Fountain. R. H. Folk. 1,712,141; May 7.
- Pen, Fountain. R. A. Fritsch. 1,733,342; Oct. 29.
- Pen, Fountain. G. W. Gilman. 1,704,470; Mar. 5.
- Pen, Fountain. G. W. Gilman. 1,726,432; Aug. 27.
- Pen, Fountain. W. A. Hartline. 1,711,845; May 7.
- Pen, Fountain. W. A. and D. C. Houston. 1,723,171; Aug. 6.
- Pen, Fountain. C. Ihara. 1,719,374; July 2.
- Pen, Fountain. J. A. Kaye. 1,707,190; Mar. 26.
- Pen, Fountain. T. Kovács. 1,706,616; Mar. 26.
- Pen, Fountain. F. J. Kristofek. 1,712,304; May 7.
- Pen, Fountain. H. Lessing. 1,738,835; Dec. 10.
- Pen, Fountain. I. Levi. 1,737,463; Nov. 26.
- Pen, Fountain. W. I. Light. 1,720,559; July 9.
- Pen, Fountain. C. E. Marshall. 1,740,189; Dec. 17.
- Pen, Fountain. C. C. McCue. 1,720,369; July 9.
- Pen, Fountain. J. Muck. 1,728,944; Sept. 24.
- Pen, Fountain. J. P. Nikonow. 1,717,731; June 18.
- Pen, Fountain. T. Pearson. 1,739,325; Dec. 10.
- Pen, Fountain. R. T. Pollock. 1,724,107; Aug. 13.
- Pen, Fountain. G. A. Risk. 1,706,751; Mar. 26.
- Pen, Fountain. V. Savio. 1,718,709-10; June 25.
- Pen, Fountain. C. R. Sheaffer. Des. 78,795; June 18.
- Pen, Fountain. W. V. Ullner. 1,714,965; May 28.
- Pen, Fountain. C. Vredenburgh. Des. 77,800; Feb. 19.
- Pen, Fountain. J. L. H. Wilson. 1,737,954; Dec. 3.
- Penholder. C. T. Luthy. 1,713,764; May 21.
- Penholder. A. J. Shaub. 1,706,326; Mar. 19.
- Penholder. L. B. Shirk. 1,719,244; July 2.
- Penholder. T. Tsuge. 1,729,915; Oct. 1.
- Penholder and calendar, Combined. H. L. Fischer. Des. 80,077; Dec. 10.
- Penholder and desk pad, Combined. M. Kahn. Des. 80,033; Dec. 3.
- Penholder and ink holder, Combined. W. C. Ford. 1,733,955; Oct. 29.
- Penholder and inkstand, Combination. J. A. Erickson. Des. 78,925; July 9.
- Penholder and paper knife or similar article, Combination. J. F. Barnhart. Des. 79,010; July 23.
- Pen instrument centrifugally governed, Rotative drop bowl. E. A. Larsen. 1,716,782; June 11.
- Pen, medicine dropper, and the like, Fountain. E. C. Loetscher. 1,713,187; May 14.
- Pen-nib-ejecting means. N. R. Tait. 1,709,416; Apr. 16.
- Pen or pencil name clip. E. R. Johnson. 1,712,501; May 14.
- Pen or similar article, Cap for a. F. Biffar. Des. 79,546; Oct. 8.
- Pen pencil. H. Wiese. 1,710,130; Apr. 23.
- Penrack and inkstand, Combined. L. E. Eggertsen. Des. 78,455; May 7.
- Pen, Shading fountain. T. T. Lecroy. 1,727,110; Sept. 3.
- Pen stand, Fountain-. I. S. Heilbrun. 1,704,248; Mar. 5.
- Pen support. C. Horix. Des. 77,835; Feb. 26.
- Pen, Tantalum-alloy. E. W. Engle and M. M. Austin. 1,701,299; Feb. 5.
- Pen, Typographic. G. Anston. 1,724,064; Aug. 13.
- Pens, Assembling nibs and feed members for fountain. C. J. Funk. 1,735,199; Nov. 12.
- Pens, Attachment for fountain. A. W. Easton. 1,725,064; Aug. 20.
- Pens, Filling device for fountain. F. C. Deli and W. D. Groseclose. 1,733,780; Oct. 29.
- Pens, Pressure-relief attachment for. S. Schrago. 1,702,953; Feb. 19.
- Pencil. H. Augenstein. 1,729,240; Sept. 24.
- Pencil. R. Debenedetti. 1,714,418; May 21.
- Pencil. F. C. Deli. 1,708,915; Apr. 9.
- Pencil. F. C. Deli. 1,736,430; Nov. 19.
- Pencil. F. C. Deli. 1,738,173; Dec. 3.
- Pencil. T. H. Dunne. 1,716,953; June 11.
- Pencil. J. H. Fischer. 1,723,146; Aug. 6.
- Pencil. H. L. Fischer. 1,729,165; Sept. 24.
- Pencil. H. L. Fischer. 1,736,194; Nov. 19.
- Pencil. F. Freyman. 1,730,132; Oct. 1.
- Pencil. H. S. Hasselquist. 1,720,417; July 9.
- Pencil. J. F. Lindberg. 1,729,786; Oct. 1.
- Pencil. J. P. Lynn. 1,715,770; June 4.
- Pencil. J. E. Mackay. 1,705,935; Mar. 19.
- Pencil. H. C. Mundstock, H. P. Falvey, and W. W. Garrison. Des. 78,777; June 18.
- Pencil. C. R. Sheaffer. 1,712,850; May 14.
- Pencil. F. J. Vierling. 1,698,353; Jan. 8.
- Pencil. F. J. Vierling and F. R. Bartholomew. 1,734,784; Nov. 5.
- Pencil. J. C. Wahl. 1,716,253; June 4.
- Pencil. T. Yoshimatsu. 1,728,711; Sept. 17.
- Pencil. C. D. Zeigler. 1,726,011; Aug. 27.
- Pencil and letter opener, Combination. E. K. Madan. Des. 79,889; Nov. 12.
- Pencil attachment. B. J. Title. 1,702,954; Feb. 19.
- Pencil, Autocontrolled continuously-fed magazine. A. R. Nelson. 1,716,354; June 4.
- Pencil, Automatic. C. H. Stout and J. Caballero. 1,697,437; Jan. 1.
- Pencil case, Multicolor. L. di Rebaylio. 1,731,683; Oct. 15.
- Pencil case, Step-by-step. L. di Rebaylio. 1,703,596; Feb. 26.
- Pencil clip. G. Harmouth. 1,709,979; Apr. 23.
- Pencil clip. C. H. Keeran. 1,700,410; Jan. 29.
- Pencil clip. J. C. Wahl. 1,714,744; May 28.
- Pencil clip and sharpener, Combined. C. Johnson. 1,699,791; Jan. 22.
- Pencil, Lead. B. C. Becker. 1,724,173; Aug. 13.
- Pencil, Lead. B. C. Becker. 1,729,814-15; Oct. 1.
- Pencil lead and making same. B. B. Goldsmith and H. Grossman. 1,738,888; Dec. 10.
- Pencil, Magazine. A. F. Bumpus. 1,720,717; July 16.
- Pencil, Magazine. J. F. Desemo. 1,706,399; Mar. 26.
- Pencil, Magazine. J. Henzel. 1,701,263; Feb. 5.
- Pencil, Magazine. W. K. Holmes. 1,703,038; Feb. 19.
- Pencil, Magazine lead. E. D. Feldman. 1,700,256-7; Jan. 29.
- Pencil, Magazine lead. A. Woelm. 1,700,247; Jan. 29.
- Pencil-making machine. C. E. Daniels. 1,706,728; Mar. 26.
- Pencil, Mechanical. E. G. E. Hogner. 1,702,299; Feb. 19.
- Pencil, Mechanical. R. H. Ingersoll. 1,702,780; Feb. 19.
- Pencil, Mechanical. R. H. Ingersoll. 1,725,585; Aug. 20.
- Pencil, Mechanical. H. W. Johnson. 1,705,865; Mar. 19.
- Pencil, Mechanical. C. R. Keeran. 1,723,787; Aug. 6.
- Pencil, Mechanical. Y. Morita. 1,698,445; Jan. 8.
- Pencil, Mechanical. A. Pollak. 1,724,412; Aug. 13.
- Pencil, Mechanical. J. C. Wahl. 1,729,142; Sept. 24.



- Pencil, Multicolored automatic. J. Caballero and J. Lopez. 1,732,591; Oct. 22.
- Pencil, Rechargeable. C. F. Doebler. 1,723,504; Aug. 6.
- Pencil sheath. N. H. Kodama. 1,728,128; Sept. 10.
- Pencil, Step-by-step lead. E. D. Feldman. 1,700,255; Jan. 29.
- Pencil, Step-by-step lead. A. Woelm. 1,700,246; Jan. 29.
- Pencils, Device for pointing wooden. G. Faltenghi. 1,708,952; Apr. 16.
- Pencils, Tip for mechanical. A. Woelm. 1,724,245; Aug. 13.
- Pendant. L. J. Johnson. 1,710,734; Apr. 30.
- Pendant for wearing apparel. M. A. Klein. Des. 78,162; Apr. 2.
- Pendant switch. P. McShane. 1,736,746; Nov. 19.
- Pendant, Watch. H. E. Hyatt. 1,712,041; May 7.
- Pentaerythrite, Producing. C. E. Burke. 1,716,110; June 4.
- Pentaerythritetranitrate, Preparing. H. A. Aaronson. 1,705,699; Mar. 19.
- Pepper or salt shaker. E. Baniek. 1,700,350; Jan. 29.
- Perambulator and the like. E. T. Morriss. 1,712,712; May 14.
- Perch, Anti owl, hawk, and crow. C. G. Terry. 1,717,279; June 11.
- Percolator. F. J. Cross. 1,708,663; Apr. 9.
- Percolator. A. G. Hron. 1,719,473; July 2.
- Percolator. F. E. Schenker. Des. 77,500; Jan. 15.
- Percolator and toaster, Combined. C. J. Grayson. Des. 78,688; June 4.
- Percolator cap. A. B. Gardella. 1,721,812; July 23.
- Percolator, Coffee. F. J. Bernard. 1,719,498; July 2.
- Percolator, Coffee. W. C. Buske. 1,712,548; May 14.
- Percolator, Coffee. C. A. Büttner. 1,706,771; Mar. 26.
- Percolator, Coffee. H. Lamplota. 1,723,186; Aug. 6.
- Percolator, Coffee. H. H. Schott. Des. 80,147; Dec. 17.
- Percolator, Coffee. W. E. Warner. 1,716,398; June 11.
- Percolator, Electric. C. B. Backer. 1,731,882; Oct. 15.
- Percolator sediment collector, Coffee. B. C. Bridgham. 1,704,879; Mar. 12.
- Percolator top. E. E. Drumm. Des. 77,475; Jan. 15.
- Percolator top, Coffee. H. N. Denny. 1,717,963; June 18.
- Percussive motor. L. A. Maxson. 1,703,840; Feb. 26.
- Perfecting press. J. J. Halliwell. 1,737,190; Nov. 26.
- Perforating device. R. B. Magune. 1,718,164; June 18.
- Perforating device for rubber sheets. J. R. Gammeter. 1,726,219; Aug. 27.
- Perforating device, Tube. F. E. Owen. 1,705,093; Mar. 12.
- Perforating machine. P. A. Juul. 1,737,851; Dec. 3.
- Perforating machine. W. F. Lautenschlager. 1,739,681; Dec. 17.
- Perforating machines, Automatic paper feed for. W. F. Lautenschlager. 1,721,486; July 16.
- Perforating mechanism. M. O. Anthony. 1,714,583; May 28.
- Perforating pipe or the like. I. J. McCullough and M. S. Black. 1,731,930; Oct. 15.
- Perforating pipe or the like, Apparatus for. I. J. McCullough and M. S. Black. 1,697,960; Jan. 8.
- Perforating wood preparatory to receiving preservative material, Apparatus for. C. N. Gram. 1,701,324; Feb. 5.
- Perforator, Can. S. H. Skinner. 1,703,367-8; Feb. 26.
- Perfume set. P. Heymann. 1,711,531; May 7.
- Periscope. A. E. Ostrander. 1,727,727; Sept. 10.
- Periscope for vehicles. H. A. Edwards. 1,733,869; Oct. 29.
- Permanent-wave comb. H. A. Lippincott. 1,700,064; Jan. 22.
- Permanent waves, Apparatus for forming. W. S. Lewis. 1,733,612; Oct. 29.
- Permanent waves in hair, Device for producing. L. M. Casey. 1,713,688; May 21.
- Permutating device for use in coding machines. W. Kern. 1,705,641; Mar. 19.
- Permutation lock. F. W. Baumgarth. 1,717,956; June 18.
- Permutation lock. E. L. Higgins. 1,734,579; Nov. 5.
- Permutation lock. L. E. Simmons. 1,729,019; Sept. 24.
- Permutation lock. R. K. Winning and J. R. Thorp. 1,736,183; Nov. 19.
- Personnel indicator. F. H. Bronner. 1,711,222; Apr. 30.
- Perspiration pad. D. Knepper. 1,697,919; Jan. 8.
- Perylene and its derivatives, Quantitatively halogenating. A. Pongratz and A. Zinke. 1,697,137; Jan. 1.
- Pessary, Medical. E. Motteram. 1,732,413; Oct. 22.
- Pest control. R. M. Jackson. 1,715,925; June 4.
- Petrolatum, Making white. E. B. Cobb and A. Holmes. 1,707,187; Mar. 26.
- Petrolatum, Process and apparatus for making white. A. Holmes. 1,733,597; Oct. 29.
- Petroleum, Apparatus for refining crude. F. G. Ring and P. G. Paris. 1,734,880; Nov. 5.
- Petroleum distillates, Purifying. M. L. Chappell and G. J. Ziser. 1,741,555; Dec. 31.
- Petroleum hydrocarbons, Cracking. C. R. Downs. 1,708,303; Apr. 9.
- Petroleum hydrocarbons, Utilizing. A. P. Bjerregaard. 1,723,008; Aug. 6.
- Petroleum oil, Apparatus for clarifying and decolorizing. J. C. Black. 1,734,959; Nov. 12.
- Petroleum oils, Conversion of. G. Egloff. 1,707,348; Apr. 2.
- Petroleum, Process of and apparatus for distilling. E. H. Leslie and E. M. Baker. 1,730,891; Oct. 8.
- Petroleum, Converting. G. Egloff. 1,741,509; Dec. 31.
- Pharmaceutical. M. L. Crossley. 1,716,686; June 11.
- Pharmaceutical product. H. Hahl and L. Schütz. 1,723,696; Aug. 6.
- Phase indicator. H. S. Petch. 1,728,835; Sept. 17.
- Phase modifier. H. Benioff. 1,719,356; July 2.
- Phase relations between stations, Controlling. H. Nyquist. 1,740,620; Dec. 24.
- Phase variations, Compensation for. H. A. Affel. 1,740,491; Dec. 24.
- Phase variations, Compensation for. E. I. Green. 1,703,142; Feb. 26.
- Phenol-aldehyde products, Producing light-colored, hard, infusible, and insoluble. L. Deutsch and I. Thorn. 1,710,045; Apr. 23.
- Phenolalkylether, Basic. H. Hahl. 1,725,136; Aug. 20.
- Phenol condensation product, Producing viscous. R. Güntzel. 1,711,411; Apr. 30.
- Phenol-formaldehyde condensation product and making same. G. W. Stryker. 1,737,031; Nov. 26.
- Phenol-furfural resin and making same. E. E. Novotny. 1,737,121; Nov. 26.
- Phenol, Manufacture of. W. J. Hale and E. C. Britton. 1,737,841; Dec. 3.
- Phenolphthalein and making same, Yellow. J. Ebert. 1,711,048; Apr. 30.
- Phenol-resin composition. H. L. Bender. 1,717,600; June 18.
- Phenol-resin molding mixture. L. V. Redman and V. H. Turkington. 1,716,665; June 11.
- Phenols and aldehydes, Producing transparent, hard, insoluble, and infusible products of condensation from. L. Deutsch and I. Thorn. 1,710,019; Apr. 23.
- Phenols and polyhydric alcohols, Condensation product of. E. E. Novotny and C. J. Romieux. 1,705,494; Mar. 19.
- Phenols, Making. W. J. Hale and E. C. Britton. 1,737,842; Dec. 3.
- Phenolic condensation products and making the same. A. J. Weith. 1,699,727; Jan. 22.
- Phenolic condensation products and manufacture thereof. J. A. Nieuwland. 1,707,941; Apr. 2.
- Phenolic condensation products, Producing. O. A. Cherry and F. Kurath. 1,710,722; Apr. 30.
- Phenolic condensation products, Producing. O. A. Cherry and F. Kurath. 1,726,650; Sept. 3.
- Phenolic condensation products, Producing. F. Kurath. 1,726,671; Sept. 3.
- Phenolic condensation products and preparing same. O. A. Cherry. 1,737,917; Dec. 3.
- Phenolic condensation products and producing same. O. A. Cherry and F. Kurath. 1,737,916; Dec. 3.
- Phenolic resin and making the same. G. W. Miller. 1,717,614; June 18.
- Phenyl methylene bis diethyl dithiocarbamate and making the same. S. M. Cadwell. 1,736,429; Nov. 19.
- Phones, Ear. G. W. Wacker. 1,699,127; Jan. 15.
- Phonograph. W. J. Bauer, F. O. Wierth, and A. S. Meadoff. 1,700,969; Feb. 5.
- Phonograph. A. V. Bodine. 1,738,061; Dec. 3.
- Phonograph. T. A. Edison. 1,708,692; Apr. 9.
- Phonograph. R. S. Khaira. 1,741,465; Dec. 31.
- Phonograph. C. P. Madsen. 1,734,172; Nov. 5.
- Phonograph. J. N. Pepin. 1,729,122; Sept. 24.
- Phonograph. E. Rodriguez. 1,704,260; Mar. 5.
- Phonograph and controlling the same. J. M. Lucarelle and J. E. Renholdt. 1,726,574; Sept. 3.
- Phonograph and radio, Combination. J. Wolff. 1,697,215; Jan. 1.
- Phonograph and radio receiving set, Combined. Z. Eckelbarger. 1,720,949; July 16.
- Phonograph and radio receiving-set cabinet or similar article, Combined. M. Nystrom. Des. 80,086-7; Dec. 10.
- Phonograph apparatus, Electrical. M. E. Vansickle. 1,733,323; Oct. 29.
- Phonograph apparatus, Electrical. M. E. Vansickle. 1,734,312; Nov. 5.
- Phonograph arm. R. S. Weir. 1,721,362; July 16.
- Phonograph attachment. U. J. Burke. 1,732,459; Oct. 22.
- Phonograph attachment. F. O. Wierth. 1,725,237; Aug. 20.
- Phonograph, Automatic. V. H. Seymer. 1,709,748; Apr. 16.
- Phonograph, Automatic. J. L. Vaughn. 1,707,290; Apr. 2.
- Phonograph cabinet. F. H. Horning. 1,698,499; Jan. 8.
- Phonograph cabinet. C. Otto. Des. 77,978; Mar. 12.
- Phonograph, Multiple-record-playing. P. Rowan. 1,710,072; Apr. 23.
- Phonograph needle. C. A. Ahlstrom. 1,739,201; Dec. 10.
- Phonograph needle. A. J. Sherburne. 1,731,179; Oct. 8.
- Phonograph pick-up, Electrostatic. H. Andrewes. 1,732,393; Oct. 22.
- Phonograph-printing machine. J. R. Thonet. 1,737,440; Nov. 26.
- Phonograph-record-recording machine. H. Pfannenstiehl. 1,711,650; May 7.
- Phonograph-record-recording machine. C. D. Richard. 1,711,690; May 7.
- Phonograph recorder and reproducer, Combined electric. A. N. Goldsmith. 1,735,113; Nov. 12.
- Phonograph recording and reproducing. L. Espenschied. 1,713,039; May 14.
- Phonograph records, Apparatus for making. F. L. Dyer. 1,726,546; Sept. 3.
- Phonograph records, Electrical reproducer for. L. D. Harris. 1,739,228; Dec. 10.



- Phonograph reproducer. T. A. Edison. 1,711,265; Apr. 30.
- Phonograph reproducer, Electric. A. A. Thomas. 1,734,454; Nov. 5.
- Phonograph reproducing systems, Supporting. C. P. Madsen. 1,729,224; Sept. 24.
- Phonographic shutter. W. A. Riddell. 1,701,121; Feb. 5.
- Phonographs and the like, Reproducing apparatus for. E. C. Hanson. 1,725,579; Aug. 20.
- Phonographs, Automatic control for. J. P. Stockton. 1,715,873; June 4.
- Phonographs, Automatic starting and stopping device for. J. R. Nock and K. Prodis. 1,713,141; May 14.
- Phonographs, Automatic stop for. R. H. Manson. 1,710,800; Apr. 30.
- Phonographs, Automatic stop mechanism for. T. L. Schowengerdt. 1,704,063; Mar. 5.
- Phonographs, Control means for. N. C. Durand. 1,733,951; Oct. 29.
- Phonographs, Record-changing device for. J. C. Reade and G. K. Fiske. 1,727,731; Sept. 10.
- Phonographs, Reproducer of. C. H. Davis. 1,728,668; Sept. 17.
- Phonographs, Speed regulator for. V. Jakob. 1,737,244; Nov. 26.
- Phonographs, Stop and repeat mechanism for. J. T. Sibley. 1,726,128; Aug. 27.
- Phonographs with linear phonogram carriers, Device for. H. Vogt, J. Massolle, and J. Engl. 1,713,726; May 21.
- Phonographic recording. M. R. Hutchison. 1,698,366; Jan. 8.
- Phonographic reproducer, Electromagnetic. C. F. Goudy. 1,701,000; Feb. 5.
- Phosphate and making same, Organic. T. B. Wagner. 1,716,286; June 4.
- Phosphate den, Semimechanical. D. L. Baker. 1,725,694; Aug. 20.
- Phosphate, Making diammonium. G. H. Buchanan. 1,716,415; June 11.
- Phosphate rock, Treating. G. Singleton and R. P. Thornton. 1,736,553; Nov. 19.
- Phosphates and the resulting product, Production of non-hygroscopic. H. Blumenberg, jr. 1,706,101; Mar. 19.
- Phosphorescent or luminous mass or compound. H. M. Mines. 1,716,972; June 11.
- Phosphoric-acid recovery. E. Du B. Mathey and A. O. Williams. 1,714,685; May 28.
- Phosphorus and fusion cement from natural phosphates, Production of. W. Kyber. 1,723,791; Aug. 6.
- Phosphorus chloride from phosphate rock, Producing. C. G. Miner. 1,730,521; Oct. 8.
- Phosphorus nitride, Making. C. G. Miner. 1,715,041; May 28.
- Phosphorus pentoxide and phosphoric acid, Production of. G. Pistor, H. Lang, and R. Suchy. 1,700,708; Jan. 29.
- Phosphorus production. W. H. Waggaman and H. W. Easterwood. 1,728,948; Sept. 24.
- Photo-active thermoelectric device. T. W. Case. 1,724,872; Aug. 13.
- Photo-amplifying system. R. H. Ranger. 1,738,315; Dec. 3.
- Photo-electric cell. L. de Forest. 1,722,280; July 30.
- Photo-electric cell. R. Hart. 1,730,505; Oct. 8.
- Photo-electric cell. A. B. Page. 1,708,773; Apr. 9.
- Photo-electric cell. S. Wein. 1,720,654; July 9.
- Photo-electric control for pipe organs. J. H. Hammond, jr. 1,706,731; Mar. 26.
- Photo-electric device. I. Langmuir. 1,740,252; Dec. 17.
- Photoelectric photometer. C. H. Sharp, C. Kinsley, and E. D. Doyle. 1,726,318; Aug. 27.
- Photograph-album page. R. B. Buzzerd. 1,735,524; Nov. 12.
- Photograph and making same, Color. W. V. D. Kelley. 1,712,439; May 7.
- Photograph case. B. Miller. 1,737,725; Dec. 3.
- Photograph-developing process and temperature regulation. G. N. Pifer. 1,728,361; Sept. 17.
- Photograph-enlarging machine. J. R. Thonet. 1,712,854; May 14.
- Photograph exhibitor. H. F. Bandt. 1,734,790; Nov. 5.
- Photograph or corner mount. E. J. Swift. 1,741,350; Dec. 31.
- Photograph-print washer. W. J. Keyes. 1,716,446; June 11.
- Photograph reproductions on metal, Producing permanent. R. W. Carter. 1,718,945; July 2.
- Photographic apparatus. V. D. Hill. 1,738,053; Dec. 3.
- Photographic apparatus. B. A. Proctor. 1,736,750; Nov. 19.
- Photographic apparatus adapted for view-taking enlargements and screen projection. E. Oehmichen. 1,738,445; Dec. 3.
- Photographing machine. W. N. Misuraca. 1,729,176; Sept. 24.
- Photographing objects. C. G. Johnson. 1,727,288; Sept. 3.
- Photographing the interior of the eye, Appliance for. T. Kühl. 1,741,526; Dec. 31.
- Photographs and the like, Wrapper for. A. A. Mikkelsen. 1,714,688; May 28.
- Photographs, Apparatus for producing margined. L. G. Simjian. 1,734,780; Nov. 5.
- Photographs in natural colors, Producing. W. Langguth and C. Hummel. 1,710,455; Apr. 23.
- Photographs, Process of and apparatus for making aerial. L. T. Eliel. 1,735,109; Nov. 12.
- Photographic apparatus, Pose-reflecting system for. L. G. Simjian. 1,709,598; Apr. 16.
- Photographic color prints and transparencies, Producing. J. C. Carter. 1,706,107; Mar. 19.
- Photographic color process, Apparatus for. M. W. Seymour. 1,708,371; Apr. 9.
- Photographic copying machine. A. W. Caps. 1,728,102; Sept. 10.
- Photographic emulsions, Preparation of photosensitive. W. Frankenburg and G. Roessler. 1,738,530; Dec. 10.
- Photographic enlarging and reducing apparatus. S. Williamson. 1,715,526; June 4.
- Photographic etching and light-sensitive resist. A. B. Davis. 1,703,513; Feb. 26.
- Photographic etching and light-sensitive resist therefor. A. B. Davis. 1,703,512; Feb. 26.
- Photographic-film roll. S. Schibsky. 1,710,075; Apr. 23.
- Photographic films, Apparatus for liquid treatment of. D. F. Comstock. 1,707,709; Apr. 2.
- Photographic gelatine and preparing the same. W. Dietterle, O. Matthies, E. Mauerhoff and J. Reitsstötter. 1,727,866; Sept. 10.
- Photographic lens. E. Wandersleb and W. Merté. 1,697,670; Jan. 1.
- Photographic lens, corrected spherically, chromatically, astigmatically, and for coma. W. Merté. 1,741,947; Dec. 31.
- Photographic material, Splice for. E. P. Flynn. 1,730,929; Oct. 8.
- Photographic objective. L. Bertele. 1,708,863; Apr. 9.
- Photographic objective. H. W. Lee. 1,739,512; Dec. 17.
- Photographic objective. W. Merté. 1,713,708; May 21.
- Photographic paper, film, or the like, Making. W. B. Dailey. 1,699,349; Jan. 15.
- Photographic printer. C. A. Eriksen. 1,717,879; June 18.
- Photographic printer and method of printing. J. G. Capstaff. 1,704,785; Mar. 12.
- Photographic-printing apparatus. A. L. Adatte and G. L. Chanier. 1,714,203; May 21.
- Photographic-printing apparatus. H. V. Lawley. 1,730,939; Oct. 8.
- Photographic-printing device. W. T. Foster. 1,714,665; May 28.
- Photographic-printing machine. G. Everding. 1,705,048; Mar. 12.
- Photographic-printing machine. B. G. Harris. 1,732,471; Oct. 22.
- Photographic printing machine. G. E. Holm. 1,724,933; Aug. 20.
- Photographic-printing machine. J. J. Maresh. 1,722,228; July 23.
- Photographic-Printing Machine. T. G. Pate. 1,734,825; Nov. 5.
- Photographic-printing process and apparatus therefor. E. K. Hunter. 1,732,049; Oct. 15.
- Photographic-process screens, Producing. H. Ewald. 1,710,303; Apr. 23.
- Photographic recording by electric discharge. A. G. Cooley. 1,702,595; Feb. 19.
- Photographic reproducing the original objects. I. Morioka. 1,719,483; July 2.
- Photographic selecting and enlarging apparatus. F. A. Dorn. 1,729,867; Oct. 1.
- Photographic shutter. W. Bauersfeld and F. Pfeiffer. 1,716,512; June 11.
- Photographic shutter. A. Wollensak. 1,700,526; Jan. 29.
- Photographic silver-halid emulsion. O. Matthies, W. Dietterle, and J. Reitsstötter. 1,719,711; July 2.
- Photographic sound recording. V. K. Zworykin. 1,732,874; Oct. 22.
- Photography and sensitized material therefor, Color. J. E. Thornton. 1,736,554; Nov. 19.
- Photography, Color. J. F. Leventhal. 1,697,194; Jan. 1.
- Photography, Color. J. H. Powrie. 1,717,404; June 18.
- Photography, Color. W. R. Whitehorne. 1,724,445; Aug. 13.
- Photography, Method and apparatus for producing novel effects in. L. F. Douglass. 1,718,037; June 18.
- Photography, System for color. M. W. Seymour. 1,708,370; Apr. 9.
- Photometer. E. Mayer. 1,733,354; Oct. 29.
- Photometer, principally for photographic and pyrometric purposes. F. Hirschson. 1,731,134; Oct. 8.
- Photooscillator. M. V. Centeno. 1,702,195; Feb. 12.
- Photophonographic apparatus and method. B. E. Eldred. 1,734,248; Nov. 5.
- Photoprint washer. W. A. Lenz. 1,720,557; July 9.
- Photoprinting machine. C. Kanarian. 1,716,820; June 11.
- Phototelegraphy. H. G. Bartholomew and M. L. D. McFarlane. 1,731,518; Oct. 15.
- Phototelegraphy. A. G. Cooley. 1,719,392; July 2.
- Phototelegraphic synchronization. A. G. Cooley. 1,739,949; Dec. 17.
- Phthalic anhydride, Purifying. P. C. Bowers. 1,728,225; Sept. 17.
- Phthaloyl-2,3-thionaphthenes, Preparing. F. Mayer. 1,713,670; May 21.
- Physical-culture apparatus. A. Curtice. 1,729,209; Sept. 24.
- Physical-development apparatus. R. W. Mackie. 1,720,283; July 9.
- Physical instrument. W. O. Hotchkiss, H. R. Aldrich, N. H. Stearn, and J. P. Foerst. 1,702,868; Feb. 19.
- Piano. E. W. Powers. 1,703,169; Feb. 26.



- Piano. P. H. Taylor. 1,709,045; Apr. 16.  
 Piano action. J. C. Davis. 1,709,390; Apr. 16.  
 Piano action. H. B. Todd. 1,729,528; Sept. 24.  
 Piano actions, Adjustment for. R. Edward. 1,699,465; Jan. 15.  
 Piano actions, Bridle strap for. H. E. Chute. 1,703,298; Feb. 26.  
 Piano and the like. F. J. Heppe. 1,732,748; Oct. 22.  
 Piano and writing desk, Combined player. W. E. Janssen. Des. 77,554; Jan. 22.  
 Piano attachment. A. Cherniavsky. 1,722,410; July 30.  
 Piano, Automatic. J. H. Dickinson. 1,732,879; Oct. 22.  
 Piano, Automatic. J. H. Dickinson. 1,734,717; Nov. 5.  
 Piano, Automatic player. L. Heitzmann. 1,723,854; Aug. 6.  
 Piano bench. S. E. Overton. 1,734,340; Nov. 5.  
 Piano bench. C. H. Pond. 1,709,406; Apr. 16.  
 Piano construction. C. Mehlh. 1,705,195-6; Mar. 12.  
 Piano construction, Grand-. B. C. Edmands. 1,725,904; Aug. 27.  
 Piano desk. G. W. MacDow. 1,719,016; July 2.  
 Piano, Grand. W. Zaiser. Des. 78,246; Apr. 9.  
 Piano having tone modulators, Automatic player. J. H. Hammond, jr. 1,713,124; May 14.  
 Piano-instruction device. A. Y. Hall. 1,741,768-9; Dec. 31.  
 Piano, Motion-picture player. C. Breitmeyer. 1,715,158; May 28.  
 Piano or organ bench, Adjustable. J. E. Temple. 1,730,252; Oct. 1.  
 Piano-pedal extension. C. E. Hunt. 1,740,017; Dec. 17.  
 Piano, Player. A. G. Gulbransen. 1,708,502; Apr. 9.  
 Piano, radio, and phonograph, Combination player. H. J. La Jole. 1,739,680; Dec. 17.  
 Piano shutter. J. H. Hammond, jr. 1,722,978; July 30.  
 Piano, Sustained-tone. F. Munger. 1,741,948; Dec. 31.  
 Pianos. Pneumatic action for grand. H. E. Tower. 1,706,757; Mar. 26.  
 Pianos, String plate for. E. W. Powers. 1,703,168; Feb. 26.  
 Pianoforte. R. H. Collen. 1,699,561; Jan. 22.  
 Pianoforte. R. H. Collen. 1,731,153; Oct. 8.  
 Pick for musical instruments. R. J. Carpenter. 1,741,285; Dec. 31.  
 Pick, Hand ice. I. Jacques. 1,699,970; Jan. 22.  
 Pick handle. F. M. Billings. 1,697,749; Jan. 1.  
 Pick, Ice. J. DiStefano. 1,701,771; Feb. 12.  
 Pick, Pneumatic multiple. J. S. Harrison. 1,718,924; June 25.  
 Picker: *See*—  
     Carding picker. Fruit picker.  
     Corn picker. Loom picker.  
     Cotton picker.  
 Picker. L. E. Younie. 1,715,111; May 28.  
 Picker and husker, Corn. A. Rosenthal. 1,706,823; Mar. 26.  
 Picker and wagon hitch. G. A. Trauger. 1,731,642; Oct. 15.  
 Picker-stick check. A. Bergeron and O. Boutin. 1,741,047; Dec. 24.  
 Picker stick for looms. E. B. Rawson. 1,701,245; Feb. 5.  
 Picking cotton, Apparatus for. K. L. Herrmann. 1,702,508; Feb. 19.  
 Picking fruit, Device for. A. H. Hamre. 1,727,286; Sept. 3.  
 Picking fruit, Device for. A. E. Jakku. 703,450; Feb. 26.  
 Picking machine. L. A. Medcalf. 1,704,203; Mar. 5.  
 Picking machine. E. O. Patz. 1,734,046; Nov. 5.  
 Picking up cargo by aircraft. R. S. Ormand. 1,737,326; Nov. 26.  
 Pickler. S. R. Rectanus and K. Kronborg. 1,729,684; Oct. 1.  
 Picking apparatus. C. W. Kinter. 1,722,001; July 23.  
 Picking apparatus. S. L. Williams. 1,734,986; Nov. 12.  
 Picking apparatus. S. L. Williams. 1,738,412; Dec. 3.  
 Picking apparatus, Continuous. H. M. Naugle and A. J. Townsend. 1,718,063; June 18.  
 Picking baths, Preparation of. P. I. Murrill. 1,736,934; Nov. 26.  
 Pickling iron and steel. I. H. Derby. 1,729,097; Sept. 24.  
 Pickling machine. L. Lee. 1,716,068; June 4.  
 Pickling machine. H. F. Wahr. 1,706,718; Mar. 26.  
 Pickling machine, Rotary. S. T. Powell. 1,741,249; Dec. 31.  
 Pickling of metals, etc. G. D. Chamberlain. 1,719,168; July 2.  
 Pickling process. J. C. Vignos. 1,736,332; Nov. 19.  
 Pick-up arm. F. L. Capps and J. O. Prescott. 1,724,992; Aug. 20.  
 Pick-up reel. H. Bauer. 1,725,745; Aug. 27.  
 Picture and making it, Sand. F. R. Speck. 1,711,701; May 7.  
 Picture and producing the same, Colored. J. H. Christensen. 1,709,563; Apr. 16.  
 Picture and sound-record film, Motion-. A. F. Sulzer. 1,717,815; June 18.  
 Picture and talking machines, Synchronizing means for moving-. L. Kovacs. 1,729,427; Sept. 24.  
 Picture apparatus, Motion-. G. Bettini. 1,708,410; Apr. 9.  
 Picture apparatus, Motion-. G. Bettini. 1,708,533; Apr. 9.  
 Picture apparatus, Motion-. J. Griem. 1,718,782; June 25.  
 Picture apparatus, Motion-. W. A. Kosken. 1,713,663; May 21.  
 Picture apparatus, Motion-. A. M. Mayle. 1,735,468; Nov. 12.  
 Picture apparatus, Motion-. F. H. Owens. 1,698,105-6; Jan. 8.  
 Picture apparatus, Motion-. G. F. Phillips. 1,727,356; Sept. 10.  
 Picture apparatus, Moving-. R. S. Blair. 1,740,677; Dec. 24.  
 Picture apparatus, Safety attachment for moving-. A. Szeliga. 1,733,433; Oct. 29.  
 Picture apparatus, Talking-. F. H. Owens. 1,735,335; Nov. 12.  
 Picture, Composite. G. Whitson. 1,702,099; Feb. 12.  
 Picture composition, Motion-. F. D. Williams. Re17,330; June 18.  
 Picture effects, Apparatus for producing motion-. A. B. Leech. 1,714,717; May 28.  
 Picture effects, Apparatus for producing motion-. A. B. Leech. 1,719,939; July 9.  
 Picture-exhibiting machine. J. V. Meiser. 1,733,815; Oct. 29.  
 Picture film and making the same, Lubricated motion-. A. Fiedler. 1,697,858; Jan. 8.  
 Picture-film guideway, Motion-. O. Wittel. 1,708,372; Apr. 9.  
 Picture films and apparatus used therefor, Producing talking-motion-. L. de Forest. 1,716,033; June 4.  
 Picture frame. C. L'Enfant. 1,702,263; Feb. 19.  
 Picture frame. F. Harmon and T. C. Tussey. Des. 78,814; June 25.  
 Picture frame. J. B. Sanborn. 1,740,203; Dec. 17.  
 Picture frame. H. E. Sharling. 1,714,138; May 21.  
 Picture-frame clamp. J. H. Harrison. 1,704,893; Mar. 12.  
 Picture hanger. F. R. Hogan. 1,729,721; Oct. 1.  
 Picture hanger. H. A. Simsrott. 1,710,518; Apr. 23.  
 Picture illuminator, Disappearing. H. D. Lloyd. 1,739,320; Dec. 10.  
 Picture machine, Base for a motion-. A. Dina. Des. 77,534; Jan. 22.  
 Picture machine, Motion-. W. P. Jeanes and C. Drimmer. 1,738,999; Dec. 10.  
 Picture machine, Motion-. G. A. Kerestes. 1,732,755; Oct. 22.  
 Picture machine, Motion-. W. C. Readeker. 1,717,063; June 11.  
 Picture machine, Motion-. I. N. Steigman. 1,707,498; Apr. 2.  
 Picture machine, Motion. L. S. Uhler. 1,719,205; July 2.  
 Picture machines and for operating a fire-control shutter, Automatically controlling the operation of moving-. J. Tavani. 1,737,034; Nov. 26.  
 Picture machines, Shutter for motion-. E. S. Porter. 1,700,513; Jan. 29.  
 Picture negative. A. J. Cawley. 1,710,677; Apr. 23.  
 Picture photographic and projecting apparatus, Combined motion-. M. C. Fullenlove. 1,714,862; May 28.  
 Picture print and making same, Identifiable motion-. A. Fiedler. 1,704,124; Mar. 5.  
 Picture-projecting apparatus. P. E. Chapman. 1,699,833; Jan. 22.  
 Picture-projecting apparatus. J. Proksa. 1,708,521; Apr. 9.  
 Picture-projecting machine, Motion-. O. J. Antonelli. 1,731,733; Oct. 15.  
 Picture-projecting machine, Moving-. L. Kiral. 1,702,213; Feb. 12.  
 Picture-projecting machines, Dowser control mechanism for motion-. T. T. Allen, J. F. Adams, and J. S. Dunn. 1,725,556; Aug. 20.  
 Picture-projecting machines, Dowser unit for motion-. T. L. Feeney and H. Godoy. 1,725,574; Aug. 20.  
 Picture-projecting machines or the like, Standard for motion-. A. S. Howell. Des. 78,023; Mar. 19.  
 Picture-projection machines, Driving mechanism for motion-. F. R. Moulton. 1,742,001; Dec. 31.  
 Picture projector, Motion-. J. G. Capstaff. 1,735,155; Nov. 12.  
 Picture projector, Motion-. C. A. B. Halvorson, jr. 1,699,108; Jan. 15.  
 Picture projector, Motion-. D. Le R. Mantle and G. L. Gordon. 1,740,932; Dec. 24.  
 Picture projector, Motion-. E. E. Underwood. 1,711,977; May 7.  
 Picture projector, Motion-. F. Von Madaler. 1,713,504; May 14.  
 Picture projector, Moving-. F. Spaulding. 1,728,739; Sept. 17.  
 Picture projectors, Shutter for moving-. H. C. Markham. 1,734,221; Nov. 5.  
 Picture projectors, Synchronizing arrangement for moving-. D. B. Perry. 1,733,165; Oct. 29.  
 Picture receiving system, Cross screen. R. H. Ranger. 1,736,219; Nov. 19.  
 Picture recording. P. Schnitzler and A. Karolus. 1,697,932; Jan. 8.  
 Picture screen, Motion-. L. de Forest. 1,710,922; Apr. 30.  
 Picture screen, Motion-. J. H. Dreher. 1,714,550; May 28.  
 Picture screen, Motion-. P. Favour. 1,735,162; Nov. 12.  
 Picture screen, Motion-. A. S. Howard. 1,734,467; Nov. 5.  
 Picture screen, Motion-. W. M. Madison. 1,711,897; May 7.



- Picture, Stereoscopic. W. V. D. Kelley and D. Tronolone. 1,729,617; Oct. 1.
- Picture telegraphy. F. G. Creed. 1,713,266; May 14.
- Picture telegraphy. A. Karolus. 1,730,772; Oct. 8.
- Picture transmission. A. Bissiri. 1,713,213; May 14.
- Picture transmission. C. A. Clarke. 1,699,222; Jan. 15.
- Picture transmission and sending pictures and the like. Sender for. E. Wildhaber. 1,714,705; May 28.
- Picture transmission, Electric. W. Scheppmann. 1,726,126; Aug. 27.
- Picture transmission, Synchronizing arrangement for. F. Schroter. 1,738,673; Dec. 10.
- Picture-transmission system. H. E. Ives. 1,717,781; June 18.
- Picture-transmission system. H. G. Stokes. 1,728,986; Sept. 24.
- Picture-transmitting apparatus, Electric. W. L. Overton. 1,713,618; May 21.
- Picture-transmitting system. E. F. Watson. 1,719,916; July 9.
- Picture-transmitting system. A. Weaver and F. R. McMurry. 1,699,553; Jan. 22.
- Picture-transmitting system, Cross-screen. R. H. Ranger. 1,740,834; Dec. 24.
- Pictures and designs, Making. A. Donaldson. 1,725,571; Aug. 20.
- Pictures and music, Synchronization of motion. A. D. Trenor. 1,722,644; July 30.
- Pictures and the like, Electrical transmission of motion. W. Malm. 1,740,930; Dec. 24.
- Pictures and the like, Method of and tape for producing. M. D. McFarlane and H. G. Bartholomew. 1,731,345; Oct. 15.
- Pictures from light-sensitive layers containing organic colloids, Preparing. G. Kögel. 1,724,666; Aug. 13.
- Pictures having relief effects, Method and apparatus for producing. La B. E. Randall. 1,729,520; Sept. 24.
- Pictures, Making composite. G. B. Pollock. 1,737,021; Nov. 26.
- Pictures, Making composite. R. J. Pomeroy. 1,715,510; June 4.
- Pictures, Making talking motion. G. F. Myers. 1,729,048; Sept. 24.
- Pictures, Method of and apparatus for producing photoluminescent. A. Geisen. 1,724,572; Aug. 13.
- Pictures, Producing animated. F. L. Goldman. 1,715,127; May 28.
- Pictures, Producing changing. H. M. Russell. 1,724,372; Aug. 13.
- Pictures, Producing motion. W. A. Gilmartin. 1,715,230; May 28.
- Pictures, Producing motion. H. R. Van Deventer. 1,698,178; Jan. 8.
- Pictures, Synchronizing the telegraphing of. T. Thorne-Baker. 1,701,966; Feb. 12.
- Pie-crimping machine. G. L. Sachs. 1,707,816; Apr. 2.
- Pie-crust flaker. C. B. Lambert. 1,724,356; Aug. 13.
- Pie cutter. M. T. and T. B. Miles. 1,706,934; Mar. 26.
- Pie machine. D. W. Smith. 1,725,835; Aug. 27.
- Pie or cake pan. H. Muller and A. Natziger. 1,708,797; Apr. 9.
- Pie pan. J. Kones. 1,716,556; June 11.
- Pie rack. M. A. Stahl. 1,731,598; Oct. 15.
- Pie ring. K. Conry. 1,734,328; Nov. 5.
- Pie trimmer. D. W. Smith. 1,728,702; Sept. 17.
- Pie vent. E. D. Brewer. 1,738,226; Dec. 3.
- Pier and pier foundation, Concrete-bridge. C. A. P. Turner. 1,727,085; Sept. 3.
- Piercing device for dough dividers. A. H. Tessin. 1,730,394; Oct. 8.
- Piezo-electric device. A. B. Tripp. 1,734,926; Nov. 5.
- Piezo-electric interference eliminator. H. A. Affel. 1,739,494; Dec. 17.
- Pig-releasing mechanism. J. B. Fitz-Gibbon. 1,728,483; Sept. 17.
- Pigment. W. O. Snelling. 1,730,389; Oct. 8.
- Pigment and its manufacture, Chrome-green. F. S. Low. 1,738,780; Dec. 10.
- Pigment and making same, Colored opacifying. C. J. Kinzie. 1,719,432; July 2.
- Pigment base, Making a white. A. E. Marshall. 1,728,296; Sept. 17.
- Pigment, Manufacture of white-lead. S. W. Kendall. 1,706,301; Mar. 19.
- Pigments, Making. J. B. Pierce, jr. 1,715,384; June 4.
- Pigments, Mixing. A. R. Golrick. 1,740,979; Dec. 24.
- Pile and wall construction. B. C. Collier, W. Leriche, and E. A. Evans. 1,714,949; May 28.
- Pile, Concrete. C. E. Fowler. 1,703,817; Feb. 26.
- Pile construction and apparatus. N. R. Osborne. 1,700,949; Feb. 5.
- Pile driver. R. W. Crist. 1,728,665; Sept. 17.
- Pile extractor and the like. J. N. Warrington. 1,736,104; Nov. 19.
- Pile fabric. J. A. Coyle and E. T. Phoenix. 1,709,521; Apr. 16.
- Pile fabric. W. Pearsall. 1,714,104; May 21.
- Pile-pulling device. R. P. Petersen. 1,719,021; July 2.
- Piled faced material and making the same. F. W. Moore. 1,739,322; Dec. 10.
- Piles, Apparatus for handling concrete. H. R. Smith. 1,723,086; Aug. 6.
- Piles for foundations, Clearing and filling tubular. W. J. Gleasner. 1,729,422; Sept. 24.
- Pilferproof box. M. R. Kondolf. 1,725,527; Aug. 20.
- Piling. E. S. Pomykala. 1,704,577; Mar. 5.
- Piling and handling of metal bars. J. R. George and E. J. Quinn. 1,726,220; Aug. 27.
- Piling cloth. J. J. Lyth. 1,716,451; June 11.
- Piling, Corrugated sheet. J. Meiser. 1,733,816; Oct. 29.
- Piling fibrous material, Method and apparatus for. J. Fliedner. 1,710,817; Apr. 30.
- Piling mechanism, Cloth-. W. F. Twaddle. 1,738,084; Dec. 3.
- Piling, Metal sheet. M. Shulman. 1,721,643; July 23.
- Pillow. S. Buchman. 1,705,326; Mar. 12.
- Pillow. H. T. Safford. 1,700,124; Feb. 5.
- Pillow and cushion and casing for same. H. O. Lange. 1,703,629; Feb. 26.
- Pillow and vanity case, Combination. G. Page. 1,707,766; Apr. 2.
- Pillow, Bath. E. Millson. 1,713,049; May 14.
- Pilot. T. Birkenmaier and A. C. Wilson. 1,709,164; Apr. 16.
- Pilot, Automatic. E. A. Sperry, jr. 1,725,599-600; Aug. 20.
- Pilot check. F. Kraemer. 1,716,359; June 4.
- Pilot coupler structure. E. G. Hallquist. 1,724,194; Aug. 13.
- Pilot cut-off for gas burners. R. H. Maurer. 1,711,420-1; Apr. 30.
- Pilot for airplanes, Automatic. L. B. Sperry. 1,707,690; Apr. 2.
- Pilot-light construction. E. L. Claus. 1,720,656; July 9.
- Pilot switch, All-master multicontact. F. B. Adam. 1,736,991; Nov. 26.
- Pimiento roaster. A. I. Addison. 1,736,107; Nov. 19.
- Pintle for conveyor links, Composite. C. C. Brayton. 1,712,248; May 7.
- Pintle for scissors. W. A. Zeidler. 1,741,803; Dec. 31.
- Pintle hook. F. M. Reid. 1,739,986; Dec. 17.
- Pintle retainer. G. W. Sutton. 1,734,057; Nov. 5.
- Pin: See—
- Bonding pin. Insulator pin.
  - Bowling pin. Last pin.
  - Brooch bar pin. Lock check pin.
  - Clevis pin. Safety pin.
  - Collar pin. Self-lubricating pin.
  - Cotter pin. Self-oiling pin.
  - Cowling pin. Tailor's pin.
  - Crank pin. Tent pin.
  - Double-pointed pin. Tie-adjusting catch pin.
  - Floral-wreath pin. Transposition pin.
  - Flower pin. Wrist pin.
  - Guide pin.
- Pin. A. Beutelspacher. 1,732,216; Oct. 22.
- Pin. C. G. King. 1,698,335; Jan. 8.
- Pin-adjusting mechanism for folding cylinders. H. Davis. 1,713,644; May 21.
- Pin and tumbler lock, Combined. P. Radosevic. 1,719,309; July 2.
- Pin card mounting, Safety-. J. H. Sanderson. 1,702,797; Feb. 19.
- Pin construction for railway cars, Locking center-. J. F. O'Connor. 1,742,006; Dec. 31.
- Pin for disk rolling mills, Centering. L. H. Zepp. 1,703,564; Feb. 26.
- Pin for soft collars. J. J. Doran. 1,737,453; Nov. 26.
- Pin lock. A. T. Linn. 1,739,847; Dec. 17.
- Pin lock, Flat-. P. Radosevic. 1,721,747; July 23.
- Pin-locking arrangement for railway cars, Center-. J. F. O'Connor. 1,742,007; Dec. 31.
- Pin-operating mechanism for folding cylinders. F. Lamatsch. 1,713,837; May 21.
- Pin or similar article. F. J. Cantrell. Des. 80,164; Dec. 24.
- Pin setter and pin spotter, Combination. J. Olsen. 1,700,176; Jan. 29.
- Pin spotter. J. Olsen. 1,700,175; Jan. 29.
- Pin spotter and pin. J. P. Buscher. 1,707,457; Apr. 2.
- Pin tube. W. S. Hunkins. 1,699,969; Jan. 22.
- Pin-tumbler lock. W. D. Hainline. 1,739,964; Dec. 17.
- Pinacol, Manufacture of. H. Berlin. 1,703,220; Feb. 26.
- Pincushion. E. Ryder. 1,725,999; Aug. 27.
- Pinion shaft and making. R. B. Weeks. 1,718,721; June 25.
- Pinion-thrust equalizer for reduction gears. E. A. Ryder. 1,701,246; Feb. 5.
- Pinion thrust equalizer for reduction gears. E. A. Ryder. 1,707,685; Apr. 2.
- Pipe: See—
- Cutting pipe. Oscillating aerating pipe.
  - Drain pipe. Screen pipe.
  - Float drill pipe. Smoker's pipe.
  - Insulated pipe. Smoking pipe.
  - Metal-lined pipe. Stovepipe.
  - Metal pipe. Tobacco pipe.
  - Organ pipe. Turkish pipe.
- Pipe. O. Aspgren. 1,704,584; Mar. 5.
- Pipe. H. E. Batchelder. 1,736,819; Nov. 26.
- Pipe. F. Glassman. 1,726,063; Aug. 27.
- Pipe. J. Száraz. 1,706,262; Mar. 19.
- Pipe and making pipe, Cast-iron. W. H. Millsbaugh. 1,717,615; June 18.
- Pipe attachment, Blower-. J. E. Winegarner. 1,732,491; Oct. 22.
- Pipe bend. A. Schmidt. 1,740,524; Dec. 24.



- Pipe bender. A. J. Harmon and J. W. Harmon. 1,741,840; Dec. 31.
- Pipe bender. H. E. Harvey. 1,741,935; Dec. 31.
- Pipe-bowl cleaner. H. and P. D. Jorjorian. 1,718,237; June 25.
- Pipe-carrier foundation top. F. C. Lavarack. 1,699,148; Jan. 15.
- Pipe carrier, Roller-bearing. J. E. Jones. 1,713,284; May 14.
- Pipe clamp. T. W. Elder, jr. 1,727,701; Sept. 10.
- Pipe cleaner. M. C. Lo Boves. 1,738,836; Dec. 10.
- Pipe cleaner. J. H. Owens. 1,732,277; Oct. 22.
- Pipe cleaner. A. G. Snowdon. 1,702,322; Feb. 19.
- Pipe cleaner, Compressed-air. A. A. Thompson. 1,705,051; Mar. 12.
- Pipe cleaner, Conveyor. J. L. Gray. 1,701,882; Feb. 12.
- Pipe cleaner, Drain and waste. A. J. Churchill. 1,723,765; Aug. 6.
- Pipe cleaner, Waste. F. E. Wilt. 1,722,512; July 30.
- Pipe clip. E. Scharpenberg. 1,736,630; Nov. 19.
- Pipe-closure-forming device. P. Jackson. 1,705,864; Mar. 19.
- Pipe connector. W. Goetzelman. 1,736,154; Nov. 19.
- Pipe connector, Automatic train-. J. Robinson. 1,706,752; Mar. 26.
- Pipe connector, Automatic train-. J. Robinson. 1,710,458; Apr. 23.
- Pipe connector, Automatic train-. J. Robinson. 1,714,627; May 28.
- Pipe connector, Automatic train-. J. Robinson. 1,720,257; July 9.
- Pipe connector, Automatic train-. J. V. Robinson. 1,733,206; Oct. 29.
- Pipe connection. E. A. Averill and J. F. Griffin. 1,706,131; Mar. 19.
- Pipe connection, Detachable. T. Shipley. 1,709,751; Apr. 16.
- Pipe connection for vessels. M. W. Elmendorf. 1,734,966; Nov. 12.
- Pipe coupling. W. S. Bache. 1,728,588; Sept. 17.
- Pipe coupling. J. I. Jobe. 1,725,713; Aug. 20.
- Pipe coupling. K. B. Kennedy. 1,712,273; May 7.
- Pipe coupling. P. Mueller. 1,738,915; Dec. 10.
- Pipe coupling. A. J. Weatherhead, jr. 1,733,925; Oct. 29.
- Pipe coupling, Automatic. M. B. Ratcliffe. 1,731,320; Oct. 15.
- Pipe coupling, Automatic train-. J. Robinson. 1,709,156; Apr. 16.
- Pipe coupling, Automatic train-. J. Robinson. 1,714,628; May 28.
- Pipe coupling, Automatic train-. J. Robinson. 1,732,539; Oct. 22.
- Pipe coupling, Automatic train-. J. Robinson. 1,735,130; Nov. 12.
- Pipe coupling, Eschutcheon. S. Kersten. 1,725,987; Aug. 27.
- Pipe coupling, Flexible exhaust-. M. C. Horine. 1,732,721; Oct. 22.
- Pipe coupling for steam and air pipes. M. Grohek. 1,719,223; July 2.
- Pipe coupling head, Automatic train-. G. E. Baldwin. 1,720,256; July 9.
- Pipe covering, Air-cell. A. P. Jurgensen. 1,732,018; Oct. 15.
- Pipe cutter. R. T. Frye. 1,732,160; Oct. 15.
- Pipe cutter. E. E. Himes. 1,715,921; June 4.
- Pipe cutter. I. J. McCullough. 1,731,888; Oct. 15.
- Pipe cutter. I. W. Nonneman. 1,728,504; Sept. 17.
- Pipe cutter. J. Schultheiss. 1,703,548; Feb. 26.
- Pipe cutter. C. M. Scott. 1,699,027; Jan. 15.
- Pipe cutter, Outside drill-. I. J. McCullough. 1,709,141; Apr. 16.
- Pipe cutting and threading attachment for rotaries. H. R. Decker. 1,722,627; July 30.
- Pipe-cutting apparatus and method. C. C. McKnight and F. H. Koch. 1,737,889; Dec. 3.
- Pipe driving and pulling machine. J. H. Keck. 1,707,123; Mar. 26.
- Pipe extractor. A. J. Schultz. 1,723,893; Aug. 6.
- Pipe fitting. T. H. Backus. 1,718,450; June 25.
- Pipe fitting. A. N. Pasman. 1,728,769; Sept. 17.
- Pipe fitting, Combined eighth bend and clean-out. G. C. Zuckweiler. 1,741,899; Dec. 31.
- Pipe for boilers, tanks, and the like, Inlet. G. H. Gundlach. 1,716,692; June 11.
- Pipe for lavatories and sinks and manufacturing the same, Waste. R. H. Mueller. 1,719,019; July 2.
- Pipe for paper or pulp machines, Shower. C. L. Spafford. 1,721,477; July 16.
- Pipe for use with smoking tobacco. F. M. Ashley. 1,708,531; Apr. 9.
- Pipe-forming machine. A. W. Schultz. 1,711,180; Apr. 30.
- Pipe from corrosion. Protecting. H. S. Burns and L. S. Bushnell. 1,700,995; Feb. 5.
- Pipe-gripping mechanism. J. E. Ladd. 1,726,672; Sept. 3.
- Pipe hanger. H. P. Van Cleve. 1,698,571; Jan. 8.
- Pipe hanger. L. R. Zifferer. 1,740,802-3; Dec. 24.
- Pipe housing, Flush-. W. O. Thompson. 1,731,031; Oct. 8.
- Pipe-jacket packing, Locomotive steam-. E. Hollowell. 1,729,944; Oct. 1.
- Pipe joint. H. E. Bulmahn. 1,709,837; Apr. 23.
- Pipe joint. R. Dawson. 1,707,904; Apr. 2.
- Pipe joint. P. G. Johnson. 1,701,326; Feb. 5.
- Pipe joint. P. G. Johnson. 1,704,003; Mar. 5.
- Pipe joint. H. A. McDaniel. 1,707,312; Apr. 2.
- Pipe joint. W. Reynolds. 1,699,755; Jan. 22.
- Pipe joint and making the same. H. A. Stringfellow. 1,698,034; Jan. 8.
- Pipe-joint structure. F. H. Sherrerd. 1,698,738; Jan. 15.
- Pipe joints, Apparatus for forming. H. Davies. 1,716,428; June 11.
- Pipe joints, Forming. H. Davies. 1,716,429; June 11.
- Pipe joints, Making. M. P. Deming. 1,722,324; July 30.
- Pipe-laying machine. M. W. Knorr. 1,726,438; Aug. 27.
- Pipe-lifting device. J. W. Edwards. 1,731,128; Oct. 8.
- Pipe line. J. H. Taylor. 1,715,436; June 4.
- Pipe loops, Forming. O. M. Summers. 1,732,343; Oct. 22.
- Pipe machine. T. M. Lilleberg. 1,697,532; Jan. 1.
- Pipe machine, Spiral-. K. J. Thorsby. 1,739,774; Dec. 17.
- Pipe-making machine. G. C. Martin. 1,736,793; Nov. 26.
- Pipe mold, Centrifugal. W. H. Morgan, sr. 1,726,160; Aug. 27.
- Pipe mounting, Steam-. A. L. Jensen. 1,701,756; Feb. 12.
- Pipe organs, Chest action for. P. S. Carlsted. 1,711,989; May 7.
- Pipe or rod clamp. O. A. Quarnstrom. 1,718,072; June 18.
- Pipe patch. T. C. Pike. 1,728,250; Sept. 17.
- Pipe-placing machine. O. J. Schlesinger. 1,727,566; Sept. 10.
- Pipe protector, Antifriction. G. E. Fentress. 1,737,578; Dec. 3.
- Pipe puller for wells. W. H. Hauck. 1,728,544; Sept. 17.
- Pipe pusher. C. R. Harding. 1,698,498; Jan. 8.
- Pipe reamer. G. S. Shaak. 1,704,631; Mar. 5.
- Pipe ripper, Upshot. S. F. Powers. 1,733,360; Oct. 29.
- Pipe-scribing instrument. A. F. Day. 1,698,154; Jan. 8.
- Pipe seam, Lock-joint. L. W. Rose. 1,715,008; May 28.
- Pipe skelp. C. Fell. 1,698,584; Jan. 8.
- Pipe sleeve, Extension. A. F. Knowles. 1,699,147; Jan. 15.
- Pipe slip. J. A. Cady. 1,719,533; July 2.
- Pipe slip, Flexible. F. J. O'Brien. 1,730,622; Oct. 8.
- Pipe-slotting machine. E. Jones. 1,701,208; Feb. 5.
- Pipe structures, Making. B. Broido. 1,718,328; June 25.
- Pipe-supporting means. K. Muhleisen. 1,704,097; Mar. 5.
- Pipe system for hot-air heating. E. F. Ruhley. 1,736,222; Nov. 19.
- Pipe tap. E. V. McMurray. 1,701,786; Feb. 12.
- Pipe-threading machine. F. Devine. 1,705,240; Mar. 12.
- Pipe-threading means. E. R. Bourne. 1,707,456; Apr. 2.
- Pipe union. R. G. Stallard. 1,740,910; Dec. 24.
- Pipe-working machine. H. D. Pennington. 1,718,068; June 18.
- Pipe-wrapping machine. P. D. Shoenberger. 1,735,136; Nov. 12.
- Pipe wrench. B. R. Claybrook. 1,726,978; Sept. 3.
- Pipe wrench. O. Johnson. 1,727,456; Oct. 15.
- Pipe wrench. M. F. Moran. 1,722,384; July 30.
- Pipe wrench. B. H. Purdy. 1,701,120; Feb. 5.
- Pipe wrench. V. Rossi. 1,700,953; Feb. 5.
- Pipe wrench. J. Skaug. 1,734,234; Nov. 5.
- Pipe wrench, Adjustable. W. H. Goldstraw. 1,726,064; Aug. 27.
- Pipe wrench, Interior. G. R. Livergood. 1,734,439; Nov. 5.
- Piping, Making. G. A. Ferrand. 1,733,455; Oct. 29.
- Piping, Making lined. G. F. Murphy. 1,712,090; May 7.
- Pipes and the like, Laying and covering. C. Weller. 1,721,195; July 16.
- Pipes and tubes and like hollow bodies with a bituminous substance in powdered form. Coating of. R. Illemann and R. A. Whitson. 1,736,915; Nov. 26.
- Pipes, Apparatus for making. W. H. Millsbaugh. 1,730,469; Oct. 8.
- Pipes, Device for securing flexible. K. Tute. 1,726,871; Sept. 3.
- Pipes immune from attack by water and apparatus for performance of this method, Method of rendering iron. C. Blicher. 1,716,205; June 4.
- Pipes in wellholes, Cutting. R. Meijer. 1,728,069; Sept. 10.
- Pipes, Manufacture of butt-weld. H. E. Gross and O. M. Tishlarich. 1,726,347; Aug. 27.
- Pipes or tubes from fiber and cementitious material. Manufacture of. W. H. MacMenigall. 1,717,236; June 11.
- Piperidene derivative and producing the same. S. M. McElvain. 1,714,180; May 21.
- Pipette. D. Coss and G. Chamber. 1,736,392; Nov. 19.
- Pistol, Aero. L. Stawinski. 1,726,593; Sept. 3.
- Pistol, Automatic. W. R. Bluehdorn. 1,738,751; Dec. 10.
- Pistol, Automatic. F. Walther. 1,712,411; May 7.
- Pistol-grip wrench. C. M. Tume. 1,733,288; Oct. 29.
- Pistol, Liquid. A. E. Westwood and R. G. Plews. 1,700,782; Feb. 5.
- Piston. F. W. Andrews. 1,726,793; Sept. 3.
- Piston. N. A. Best and J. E. Hoy. 1,727,390; Sept. 10.
- Piston. J. A. Borland. 1,701,355; Feb. 5.
- Piston. E. P. Brown. 1,701,489; Feb. 12.
- Piston. C. S. Burnett. 1,710,011; Apr. 23.
- Piston. B. Butcher. 1,738,352; Dec. 3.
- Piston. A. C. Carrillo. 1,737,915; Dec. 3.
- Piston. N. A. Christensen. 1,721,986; July 23.
- Piston. W. R. Day. 1,717,193; Jan. 15.
- Piston. J. Flammang and P. L. Bowser. 1,736,001; Nov. 19.



- Piston. L. Freedman. 1,733,957; Oct. 29.  
Piston. P. M. Freer. 1,708,500; Apr. 9.  
Piston. P. M. Freer. 1,739,221; Dec. 10.  
Piston. G. A. Ilaight. 1,739,792; Dec. 17.  
Piston. S. D. Hartog. 1,730,885; Oct. 8.  
Piston. S. D. Hartog. 1,732,361; Oct. 22.  
Piston. F. M. Howe. 1,737,658; Dec. 3.  
Piston. R. K. Jack. 1,713,231; May 14.  
Piston. F. Jardine. 1,727,647; Sept. 10.  
Piston. F. Jardine. 1,730,120; Oct. 1.  
Piston. F. Jardine. 1,741,843; Dec. 31.  
Piston. F. J. Lemieux. 1,723,187; Aug. 6.  
Piston. E. C. Long. 1,741,243; Dec. 31.  
Piston. J. W. McQuaid. 1,718,474; June 25.  
Piston. A. Mertz. 1,733,422; Oct. 29.  
Piston. F. M. Moore. 1,733,618; Oct. 29.  
Piston. A. L. Nelson. 1,731,904; Oct. 15.  
Piston. A. L. Nelson. 1,732,414; Oct. 22.  
Piston. A. L. Nelson. 1,739,605; Dec. 17.  
Piston. J. A. Scarborough, J. B. Caldwell, and F. Coursey. 1,741,659; Dec. 31.  
Piston. G. A. Taylor. 1,719,092; July 2.  
Piston. R. and H. Taylor. 1,710,387; Apr. 23.  
Piston. M. O. Teetor. 1,723,823; Aug. 6.  
Piston, Aluminum-inlaid. D. J. Campbell. 1,717,915; June 18.  
Piston and making same. H. W. Troeger. 1,727,119; Sept. 3.  
Piston and making same. G. D. Welty. 1,732,573; Oct. 22.  
Piston and making the same. Z. Jeffries and R. S. Archer. 1,732,557; Oct. 22.  
Piston and making the same, Internal-combustion engine. H. Wagener. 1,700,604; Jan. 29.  
Piston and piston pin. Ralph J. Winterbottom. 1,724,985; Aug. 20.  
Piston and piston ring. W. R. Day. 1,704,700; Mar. 12.  
Piston and piston ring. A. V. Kinsel. 1,739,841; Dec. 17.  
Piston and piston ring. R. B. Lytle. 1,719,800; July 2.  
Piston and piston ring. M. O. Teetor. 1,710,388; Apr. 23.  
Piston and piston-ring construction. H. R. Young. 1,708,848; Apr. 9.  
Piston and upper ring therefor. N. De Vito. 1,719,834; July 9.  
Piston and valve arrangement for air brakes. E. E. Von Bergen. 1,702,712; Feb. 19.  
Piston apparatus. G. T. Voorhees. 1,723,100; Aug. 6.  
Piston, Automatic take-up. G. R. Feigel. 1,738,047; Dec. 3.  
Piston-casting machine. F. L. Feltes. 1,722,371; July 30.  
Piston, Composite. F. H. Lord. 1,709,316; Apr. 16.  
Piston, Composite. C. R. Short. 1,701,392-3; Feb. 5.  
Piston, Composite. C. R. Short. 1,712,937; May 14.  
Piston, Composite. C. R. Short. 1,718,588; June 25.  
Piston, Composite. C. R. Short. 1,734,021; Oct. 29.  
Piston, Composite. W. A. Wood. 1,707,748; Apr. 2.  
Piston construction. R. C. Clark. 1,736,252; Nov. 19.  
Piston construction. H. A. Flogaus. 1,722,132; July 23.  
Piston cover for containers. F. Brodsky. 1,699,873; Jan. 22.  
Piston diaphragm having tangential corrugations. H. C. Harrison. 1,734,624; Nov. 5.  
Piston, Engine. A. Aumeteyer and F. Piazzoli. 1,727,190; Sept. 3.  
Piston, Engine. H. J. Ness. 1,699,621-2; Jan. 22.  
Piston, Expansive. G. C. Deakins. 1,713,031; May 14.  
Piston for double-acting engines. T. D. Bowes. 1,702,247; Feb. 19.  
Piston for fluid-pressure engines. P. K. Saunders. 1,719,727; July 2.  
Piston for gas engines. R. W. Eland and L. C. Miller. 1,713,524; May 21.  
Piston for hydraulic brake mechanism. W. F. Oliver. 1,711,206; Apr. 30.  
Piston for internal-combustion engines. K. Himmelsbach. 1,707,267; Apr. 2.  
Piston for internal-combustion engines. E. T. Larkin. 1,739,007; Dec. 10.  
Piston for internal-combustion engines. H. Pratt. 1,711,425; Apr. 30.  
Piston for internal-combustion engines. G. A. Taylor. 1,712,591; May 14.  
Piston for internal-combustion engines. C. H. Wills. 1,717,750; June 18.  
Piston for internal-combustion engines, Compound. F. A. Wittenborn. 1,718,097; June 18.  
Piston for reservoirs for the storage of gas, steam, or easily evaporating liquids, Sealing. F. Schurmann. 1,722,868; July 30.  
Piston for rotary steam motors. R. J. Bogue. 1,737,355; Nov. 26.  
Piston for use in fluid-pressure engines. E. Talbot. 1,699,819; Jan. 22.  
Piston for use in internal-combustion engines. P. K. Saunders. 1,725,676; Aug. 20.  
Piston guide, Removable. T. A. Creighton. 1,729,989; Oct. 1.  
Piston-holding device. A. Graf. 1,721,111; July 16.  
Piston machine, Reciprocating. O. B. Johnson and H. M. Kortright. 1,730,659; Oct. 8.  
Piston mechanism for engines and pumps. C. A. Dreisbach. 1,736,822; Nov. 26.  
Piston motor, Counter-. H. G. Kussner. 1,698,598; Jan. 8.  
Piston, Mud-pump. A. Z. Rash. 1,716,900; June 11.  
Piston, Multiple. C. Y. Knight. 1,722,635; July 30.  
Piston, Oil-conserving. C. E. Johnson. 1,738,534; Dec. 10.  
Piston or plunger construction. E. Davis. 1,711,450; Apr. 30.  
Piston or reciprocating compressor or the like, High-pressure. C. Schaer. 1,718,307; June 25.  
Piston packing. W. G. Wilson. 1,721,325; July 16.  
Piston packing for pumps. J. J. Ferlin and T. A. Creighton. 1,700,567; Jan. 29.  
Piston packing ring, Cylinder. A. Kerns. 1,720,128; July 9.  
Piston pin and forming same. R. R. Teetor. 1,742,015; Dec. 31.  
Piston pins, Reclaiming worn. E. J. Opie and J. S. Goldsworthy. 1,722,389; July 30.  
Piston, Pump. F. C. Boeck and O. C. Kuehne. 1,732,188-9; Oct. 15.  
Piston, Pump. W. Brauer. 1,728,591; Sept. 17.  
Piston, Pump. W. F. McMahon. 1,740,931; Dec. 24.  
Piston, Rebound-device. E. W. Ackerman. 1,733,851; Oct. 29.  
Piston, Removable. P. F. Godstrey. 1,734,085; Nov. 5.  
Piston ring. I. C. Bell. 1,739,537; Dec. 17.  
Piston ring. S. A. Bowman. 1,698,988; Jan. 15.  
Piston ring. J. A. Cronin. 1,699,135; Jan. 15.  
Piston ring. G. C. Du Bois. 1,702,294; Feb. 19.  
Piston ring. A. M. Farmer. 1,740,812; Dec. 24.  
Piston ring. H. S. Graves. 1,736,530; Nov. 19.  
Piston ring. L. L. Hoffman. 1,698,546; Jan. 8.  
Piston ring. H. Jaedike. 1,739,361; Dec. 10.  
Piston ring. R. E. Kirn. 1,741,849; Dec. 31.  
Piston ring. L. J. McKone. 1,710,485; Apr. 23.  
Piston ring. T. O. McLendon and J. H. Irving. 1,732,978; Oct. 22.  
Piston ring. L. A. Mead. 1,711,610; May 7.  
Piston ring. V. W. Moray. 1,737,168; Nov. 26.  
Piston ring. A. W. Morton. 1,723,432; Aug. 6.  
Piston ring. E. C. Newton. 1,711,244; Apr. 30.  
Piston ring. T. Pepler. 1,726,714; Sept. 3.  
Piston ring. H. Schmitt. 1,705,648; Mar. 19.  
Piston ring. D. M. Solenberger. 1,703,904; Mar. 5.  
Piston ring. D. M. Solenberger. 1,734,055; Nov. 5.  
Piston ring. A. Starr. 1,699,454; Jan. 15.  
Piston ring. O. Wallden. 1,735,366; Nov. 12.  
Piston ring. B. T. Walsh. 1,720,583; July 9.  
Piston ring. J. B. Wenzel. 1,710,250; Apr. 23.  
Piston ring. J. Williams. 1,708,816; Apr. 9.  
Piston ring. J. and J. Williams. 1,720,504; July 9.  
Piston ring. H. L. Woodward. 1,700,190; Jan. 29.  
Piston ring. W. Wuerfel. 1,707,035; Mar. 26.  
Piston ring. R. G. Zeledon. 1,704,907; Mar. 12.  
Piston ring and piston. F. Mueller. 1,737,056; Nov. 26.  
Piston-ring assembly. F. Kirk. 1,721,125; July 16.  
Piston-ring-compressing sleeve. W. E. Greene. 1,706,780; Mar. 26.  
Piston-ring construction. M. M. Moratta. 1,735,291; Nov. 12.  
Piston-ring expander. J. Matechik. 1,711,573; May 7.  
Piston-ring expander. M. E. Sipe. 1,735,587; Nov. 12.  
Piston ring, Notched-face. L. B. Ellis. 1,737,302; Nov. 26.  
Piston-ring remover. T. K. Stevenson. 1,727,139; Sept. 3.  
Piston-ring setter. P. W. Heinrich. 1,741,110; Dec. 24.  
Piston rings, Apparatus for slitting. L. C. Marshall. 1,699,980; Jan. 22.  
Piston rings, Manufacture of. J. A. R. Bennet. 1,732,630; Oct. 22.  
Piston rings, Manufacturing. A. J. Mummert. 1,710,064; Apr. 23.  
Piston-rod packing ring. M. M. Farmer. 1,716,519; June 11.  
Piston rods, Making. E. H. Shaff. 1,719,243; July 2.  
Piston-sealing means. N. A. Christensen. 1,711,919; May 7.  
Piston slap in internal-combustion engines, Device for reducing. D. M. Solenberger. 1,703,905; Mar. 5.  
Piston slap in internal-combustion engines, Device for reducing. D. M. Solenberger. 1,718,785; May 21.  
Piston-travel indicator. C. C. Farmer. 1,714,009; May 21.  
Piston, Valved compressor. C. C. Spreen. 1,711,253; Apr. 30.  
Piston, Wear-compensating. E. H. Cowan. 1,742,136; Dec. 31.  
Pistons, Hollow packing ring for. C. T. Raule. 1,741,436; Dec. 31.  
Pistons, Sealing means for. J. M. Price. 1,730,478; Oct. 8.  
Pit, Ash. K. F. Middour. 1,706,803; Mar. 26.  
Pit, Cinder. W. Robertson. 1,711,809; May 7.  
Pit cover, Soaking-. L. Ellman. 1,736,524; Nov. 19.  
Pit furnace. G. Kehren. 1,698,367; Jan. 8.  
Pit furnace, Soaking-. F. W. Manker. 1,711,273-4; Apr. 30.  
Pit furnace, Soaking-. S. G. Worton. 1,724,058; Aug. 13.  
Pit mechanism, Drop-. O. L. Coffey. 1,706,211; Mar. 19.  
Pit, Refuse. R. A. Foresman. 1,739,135; Dec. 10.  
Pitting and peduncle-removing machine, Fruit-. G. Frova. 1,698,476; Jan. 8.  
Pitting fruit. J. Ramslie. 1,706,322; Mar. 19.  
Pitting machine, Fruit-. G. Frova. 1,698,477; Jan. 8.  
Pits from prunes, Method of and apparatus for removing. T. W. W. Forrest and T. O. L. Smith. 1,715,700; June 4.  
Pitch indicator. L. B. Sperry. 1,713,930; May 21.



- Pitcher, J. H. Sager. 1,741,339; Dec. 31.  
 Pitcher, Cream, H. H. Schott. Des. 80,144; Dec. 17.  
 Pitchers and the like, Drip catcher for. T. A. Wilson. 1,724,689; Aug. 13.  
 Pitchometer. R. I. Bordenlos. 1,736,247; Nov. 19.  
 Pitman, W. L. Borough. 1,711,986; May 7.  
 Pitman, Quick-release. B. S. Harris and H. M. Johnston. 1,732,888; Oct. 22.  
 Pitman, Relief. W. L. Clouse. 1,728,203; Sept. 17.  
 Pitman ring. T. H. Eubanks. 1,710,302; Apr. 23.  
 Pitman structure. R. R. Bloss. 1,736,740; Nov. 19.  
 Pivot and bearing. H. S. Ring. 1,741,737; Dec. 31.  
 Pivot for articulated cars. W. S. Adams. 1,732,998; Oct. 22.  
 Pivot joint, Rubber. R. H. Chilton. 1,729,328; Sept. 24.  
 Pivot-point assembly. A. M. Bates. 1,699,578; Jan. 22.  
 Placard. S. Krotoschin. 1,708,019; Apr. 9.  
 Placard and holder therefor. J. J. McBride. 1,727,660; Sept. 10.  
 Placard, Reversible. W. E. Cooper. 1,727,336; Sept. 10.  
 Placer machine, Dry-. W. F. Combs and I. C. Lightfoot. 1,698,779; Jan. 15.  
 Plait folder, One-piece shirt-. W. E. Le Roy. 1,712,962; May 14.  
 Plating, braiding, and twisting machine. H. A. Corbett. 1,702,814; Feb. 19.  
 Plating machine. E. L. Ezbelent. 1,723,688-9; Aug. 6.  
 Plating machine. G. and R. Ezbelent. 1,710,868; Apr. 30.  
 Plating machine. G. and R. Ezbelent. 1,713,040; May 14.  
 Plating machine. G. and R. Ezbelent. 1,737,304; Nov. 26.  
 Plating mechanism and method, Reverse. R. H. Lawson. 1,716,450; June 11.  
 Plane. W. Potter. 1,699,988; Jan. 22.  
 Plane. W. Potter. 1,723,951; Aug. 6.  
 Plane, Bench. J. Lund. 1,740,469; Dec. 24.  
 Plane, Carpenter's. E. C. Gloshen. 1,722,742; July 30.  
 Plane, Determining the normal occlusal. C. O. McBean. 1,706,179; Mar. 19.  
 Plane, Power-driven. W. H. Hannah. 1,706,157; Mar. 19.  
 Plane, Water. L. V. Fogas. 1,711,726; May 17.  
 Plane with interchangeable blades. B. Rodionoff. 1,726,124; Aug. 27.  
 Planer, Block-table. P. Schneider and J. Kinsler. 1,702,059; Feb. 12.  
 Planer, Electrotyping or engraver's. A. P. Johnston. 1,708,097; Apr. 9.  
 Planer, Floor. A. Fletcher and E. B. Eversham. 1,713,894; May 21.  
 Planer head. F. E. Cardullo and H. W. Hunt. 1,739,501; Dec. 17.  
 Planing machine. W. Symes and R. Gayter. 1,697,150; Jan. 1.  
 Planing machine, Crank-. A. Trosch. 1,735,188; Nov. 12.  
 Planing machine, Metal-. C. G. Johannesmeyer. 1,704,324; Mar. 5.  
 Planing machine, Metal-. C. G. Johannesmeyer. 1,706,452; Mar. 26.  
 Plank, Extension. D. J. MacDonald. 1,737,315; Nov. 26.  
 Planking or sheathing substitute. E. B. Carns. 1,698,255; Jan. 8.  
 Planographic press. J. S. Fleming. 1,739,585; Dec. 17.  
 Plant-dusting machine, Portable. J. H. Wright. 1,724,986; Aug. 20.  
 Plant for manufacturing water gas. M. W. Erdmann. 1,715,064; May 28.  
 Plant or fruit protecting means. G. Y. Marden. 1,721,228; July 16.  
 Plant propagator. G. G. Babich. 1,740,057; Dec. 17.  
 Plant protector. J. T. Boyd. 1,712,324; May 7.  
 Plant protector. O. Miller. 1,704,801; Mar. 12.  
 Plant protector. J. A. Stripling. 1,739,426; Dec. 10.  
 Plant soil. R. H. Morris. 3d. 1,717,059; June 11.  
 Plant stand. R. Kiff. 1,731,139; Oct. 8.  
 Planter. H. E. Altgelt. 1,735,714; Nov. 12.  
 Planter. R. J. Altgelt. 1,729,642; Oct. 1.  
 Planter. R. H. Gould. 1,725,631; Aug. 20.  
 Planter attachment. D. T. Garrett. 1,722,463; July 30.  
 Planter attachment, Cotton-. C. A. Steele. 1,736,380; Nov. 19.  
 Planter, Check-row. S. K. Dennis and B. R. Benjamin. 1,709,566; Apr. 16.  
 Planter draft device. B. R. Benjamin and C. R. Raney. 1,701,745; Feb. 12.  
 Planter feed mechanism. S. K. Dennis. 1,709,565; Apr. 16.  
 Planter, Motor-driven. C. B. Brown. 1,729,535; Sept. 24.  
 Planter, Tobacco. W. B. Owen. 1,711,612; May 7.  
 Planter, Wireless seed. C. L. De Nune. 1,728,399; Sept. 17.  
 Planting device, Bulb-. J. Colyn. 1,741,614; Dec. 31.  
 Planting machine. L. E. Blasco and A. M. Achan y Portillo. 1,726,139; Aug. 27.  
 Planting machine. L. Poll. 1,723,073; Aug. 6.  
 Planting mechanism. C. E. White. 1,741,216; Dec. 31.  
 Planting mechanism, Reverse. R. H. Lawson. 1,735,970; Nov. 19.  
 Plants in tropical climates, Growing. S. L. Richmond. 1,726,767; Sept. 3.  
 Plaque. J. S. Anderson. Des. 77,347; Jan. 1.  
 Plaque. V. J. Hajny. Des. 78,019-20; Mar. 19.  
 Plaque. V. J. Hajny. Des. 78,096; Mar. 26.  
 Plaque or similar article. E. T. Hurley. Des. 78,028; Mar. 19.  
 Plaster. J. E. Underwood and C. A. Cabell. 1,703,125; Feb. 26.  
 Plaster and controlling the setting and expansion of setting, an accelerator and expansion controller therefor, and making such controllers. J. D. Wiggin and M. M. Remmes. 1,732,737; Oct. 22.  
 Plaster and mortar mixer. J. Alexander. 1,730,713; Oct. 8.  
 Plaster base. W. H. Fairchild. 1,697,637; Jan. 1.  
 Plaster board. M. K. Armstrong. 1,701,291; Feb. 5.  
 Plaster board. J. Schumacher. 1,719,200; July 2.  
 Plaster board. C. W. Utzman. 1,703,183; Feb. 26.  
 Plaster board and making same. C. W. Utzman. 1,731,116; Oct. 8.  
 Plaster-board construction. O. V. Kean. 1,738,832; Dec. 10.  
 Plaster-board-edge protection. M. Rule. 1,730,629; Oct. 8.  
 Plaster board, Forming. J. Schumacher. 1,718,712; June 25.  
 Plaster-board-joint reinforcement. C. R. Birdsey and F. A. Manske. 1,740,493; Dec. 24.  
 Plaster board, Method of and machine for making. W. E. Lovett. 1,733,741; Oct. 29.  
 Plaster board or analogous materials, Method of and apparatus for cutting. J. J. Turner. 1,716,991; June 11.  
 Plaster-board stud and key lock. T. Collins. 1,697,521; Jan. 1.  
 Plaster-cast-cutting machine. G. Boggio. 1,713,368; May 14.  
 Plaster, Cellular. H. E. Brookby. 1,720,032; July 9.  
 Plaster-channel installation for screen guides. H. Dixon. 1,735,496; Nov. 12.  
 Plaster composition. F. M. Venzie. 1,736,294; Nov. 19.  
 Plaster-dispensing device, Adhesive-. M. Raymond. 1,731,266; Oct. 15.  
 Plaster, Manufacture of marble. L. E. Chassevent. 1,703,097; Feb. 26.  
 Plaster mixer. G. Jaeger. 1,708,947; Apr. 16.  
 Plaster-supplying device, Automatic. L. Lowy. 1,716,317; June 4.  
 Plaster wall board, Apparatus for constructing. C. R. Birdsey. 1,718,890; June 25.  
 Plaster-wall-board shipping package or holder. C. W. Utzman. 1,724,740; Aug. 13.  
 Plasterer's float. H. Goldblatt. 1,699,840; Jan. 22.  
 Plastering machine. H. A. Conley. 1,737,044; Nov. 26.  
 Plastering machine. J. Pages. 1,726,515; Aug. 27.  
 Plastic and paint, Emulsified. C. L. Young. 1,734,413; Nov. 5.  
 Plastic compactor. R. C. Stubbs. 1,711,758; May 7.  
 Plastic composition. R. A. Norton. 1,720,051; July 9.  
 Plastic composition. M. M. Serebrianoi. 1,724,523; Aug. 13.  
 Plastic composition and making the same. J. F. Haggerty. 1,702,965; Feb. 19.  
 Plastic-composition article and making the same, Cold-molded. F. Kurath. 1,732,478; Oct. 22.  
 Plastic composition by pressure die molding, Apparatus for making articles of. E. De Journo. 1,706,874; Mar. 26.  
 Plastic compositions, Making. E. P. Carpenter. 1,740,573; Dec. 24.  
 Plastic compounds, Making. T. Robinson. 1,732,281; Oct. 22.  
 Plastic conductive composition. A. W. Schorger. 1,717,171; June 11.  
 Plastic derivative of rubber, Heat. W. C. Geer and H. A. Winkelmann. 1,705,757; Mar. 19.  
 Plastic material, Method of and apparatus for spreading. A. C. Chenoweth. 1,731,231; Oct. 8.  
 Plastic material to molds, Feeding. W. J. Miller. 1,739,981; Dec. 17.  
 Plastic-molding device. J. W. Henry. 1,708,421; Apr. 9.  
 Plastics, Process and apparatus for separating. A. F. and P. S. Ward. 1,726,938; Sept. 3.  
 Plastic sheet, Method and apparatus for producing a variegated. T. J. Mell. 1,730,673; Oct. 8.  
 Plastic-straining machine. J. A. Himrod. 1,716,696; June 11.  
 Plastic strips, Spreader feed for. P. M. O'Neill and A. J. Simeone. 1,735,472; Nov. 12.  
 Plastic, Waterproof. O. A. Collings. Re17,207; Feb. 5.  
 Plate. H. Barkby. Des. 79,618; Oct. 22.  
 Plate. E. M. Bottom. Des. 79,227; Aug. 20.  
 Plate. M. Finkle. Des. 79,355; Sept. 10.  
 Plate. U. Hagmann. Des. 78,466; May 7.  
 Plate. E. L. Schnepf. Des. 79,269; Aug. 20.  
 Plate. P. R. Simmons. Des. 78,661; May 28.  
 Plate attachment, Ple-. W. Houston. 1,699,239; Jan. 15.  
 Plate, Cake. R. M. Smythe. 1,718,668; June 25.  
 Plate changer. F. B. Stephenson. 1,698,895; Jan. 15.  
 Plate clamp. J. R. Blaine. 1,725,779; Aug. 27.  
 Plate clamp. F. Lamatsch. 1,717,391; June 18.  
 Plate cleaner, Space-. J. Schwabe, jr. 1,731,987; Oct. 15.  
 Plate, Cooking. E. H. Baldwin. 1,698,870; Jan. 15.  
 Plate cover structure, Enameled-. W. A. Hall. 1,731,131; Oct. 8.  
 Plate, Electric cooking. R. H. MacInnes. 1,714,175; May 21.  
 Plate, Escutcheon. H. V. Henderson. Des. 79,518; Oct. 1.  
 Plate for corn planters, Dropping. R. J. McNeill. 1,730,672; Oct. 8.



- Plate for indicating means, Escutcheon. J. Geloso. Des. 79,512; Oct. 1.
- Plate for lamp bases or articles of analogous nature. H. Brettler. Des. 79,176; Aug. 13.
- Plate for outlet box closures, Adjustment. J. A. Kelly. 1,722,430; July 30.
- Plate for smoker's sets. H. Brettler. Des. 79,280; Aug. 27.
- Plate for smokers' sets. P. Cricchio. Des. 79,507; Oct. 1.
- Plate for a sock suspender. E. E. Rigold. Des. 77,435; Jan. 8.
- Plate for use in heel building, Equalizing. D. Parks. 1,740,871; Dec. 24.
- Plate for wheel lathes, Surface. E. Blau. 1,725,331; Aug. 20.
- Plate glass, Apparatus for making. W. Owen. 1,720,745; July 16.
- Plate glass, Handling. I. G. Fowler. 1,723,148; Aug. 6.
- Plate-holding device. C. S. Andrews. 1,729,412; Sept. 24.
- Plate lifter. F. H. Griffith. 1,726,619; Sept. 3.
- Plate mold and making plates. E. E. Slick. 1,712,233; May 7.
- Plate or analogous article. H. E. Nock. Des. 78,119; Mar. 26.
- Plate or analogous article. G. F. Parker. Des. 78,782; June 18.
- Plate or article of similar nature. T. C. Heisey. Des. 79,885; Nov. 12.
- Plate or similar article. L. Bilton. Des. 79,222; Aug. 20.
- Plate or similar article. L. Bilton. Des. 79,547-8; Oct. 8.
- Plate or similar article. R. R. J. Copeland. Des. 77,396; Jan. 8.
- Plate or similar article. J. V. Goddard. Des. 78,017; Mar. 19.
- Plate or similar article. J. E. Goodwin. Des. 78,515; May 14.
- Plate or similar article. M. A. Hanse. Des. 77,484; Jan. 15.
- Plate or similar article. F. G. Holmes. Des. 79,816; Nov. 5.
- Plate or similar article. P. N. Leyland. Des. 77,844; Feb. 26.
- Plate or similar article. A. W. MacKenzie. Des. 79,593; Oct. 15.
- Plate or similar article. M. J. Palm, jr. Des. 77,980; Mar. 12.
- Plate or similar article. L. Pfuhl. Des. 79,202; Aug. 13.
- Plate or similar article. J. E. Phillips. Des. 79,604; Oct. 15.
- Plate or similar article. M. Plumer. Des. 79,163; Aug. 6.
- Plate or similar article. F. H. Rhead. Des. 77,912; Mar. 5.
- Plate or similar article. F. H. Rhead. Des. 79,101; July 30.
- Plate or similar article. H. T. Robinson. Des. 78,697; June 4.
- Plate or similar article. H. T. Robinson. 79,663-9; Oct. 22.
- Plate or similar article. F. Schmidt. Des. 79,482; Sept. 24.
- Plate or similar article. W. H. Steventon. Des. 78,230; Apr. 9.
- Plate or similar article. B. Thorngate. Des. 78,415; Apr. 30.
- Plate or similar article. U. Tomita. Des. 77,630-1; Jan. 29.
- Plate or similar article. U. Tomita. Des. 78,045-57; Mar. 19.
- Plate or similar article. U. Tomita. Des. 79,111; July 30.
- Plate or similar article. D. G. Turnbull. Des. 78,907; July 2.
- Plate or similar article. C. Weiss. Des. 77,381-2; Jan. 1.
- Plate or similar article. C. Weiss. Des. 77,445; Jan. 8.
- Plate or similar article. C. Weiss. Des. 77,718; Feb. 12.
- Plate or similar article. C. Weiss. Des. 77,867; Feb. 26.
- Plate or similar article. C. Weiss. Des. 78,241; Apr. 9.
- Plate or similar article. W. S. Woodman. Des. 79,777; Oct. 29.
- Plate or similar article, Cake. E. E. Slick. Des. 79,994; Nov. 26.
- Plate or similar article, Push. C. E. Horton. Des. 78,098-100; Mar. 26.
- Plate, Orifice. F. V. Wetherill. 1,731,404; Oct. 15.
- Plate press, Rail-joint. J. A. Kinney. 1,711,795; May 7.
- Plate-rolling mill. D. Mattel. 1,708,185; Apr. 9.
- Plate, Wafer. A. Heyboer. 1,740,649; Dec. 24.
- Platelike screen, Rotary. O. Wiencke. 1,717,902; June 18.
- Platen for addressing machines, Adjustable. P. A. Gollnick, C. E. Ives, F. W. Broderick, and F. C. Arey. 1,737,878; Dec. 3.
- Platen for typewriters, Card. C. Gabrielson. 1,702,824; Feb. 19.
- Platen moving and controlling means, Flat-. H. A. Foot-horap. 1,730,567; Oct. 8.
- Platen press. L. H. Burnham. 1,737,143; Nov. 26.
- Platform. F. J. Shepard, jr., N. Warshaw, and D. E. Hennessy. 1,698,029; Jan. 8.
- Platform, Adjustable window-washing. H. T. Duket. 1,721,179; July 16.
- Platform-adjusting means for combined harvesters and shockers. C. Christiansen. 1,728,150; Sept. 10.
- Platform attachment for ladders. A. A. Silva. 1,725,723; Aug. 20.
- Platform for aeroplanes, Yieldable landing. W. C. Ward. 1,739,193; Dec. 10.
- Platform for airplanes, Landing. J. W. Reno. 1,718,006; June 18.
- Platform for lift trucks, Portable. E. H. Polk. 1,736,170; Nov. 19.
- Platform, Loading. H. W. Jencks. 1,741,189; Dec. 31.
- Platform, Movable. J. M. Rohlfing. 1,699,544; Jan. 22.
- Platform, Movable. R. Séné. 1,718,085; June 18.
- Platform, Portable table. G. G. Raymond. 1,736,172; Nov. 19.
- Platform, Theatrical trick-performing. S. S. Swoyer. 1,708,159; Apr. 9.
- Platform, Transfer. L. D. Holmes and J. S. Townsend. 1,741,772; Dec. 31.
- Platform, Trussed. N. Warshaw and D. E. Hennessy. 1,698,038; Jan. 8.
- Platform, Valve-actuating. J. H. Cook. 1,728,856; Sept. 17.
- Platform, Vehicle dumping. M. A. Erickson. 1,727,538; Sept. 10.
- Platter and platter-retaining device. H. S. Bergen. 1,725,503; Aug. 20.
- Play and exercising device. V. H. Gneuchtel. 1,731,658; Oct. 15.
- Play device, Juvenile. M. G. Keller. 1,726,028; Aug. 27.
- Play outfit for children. T. C. Graham. 1,725,911; Aug. 27.
- Playball. R. H. Coovert. 1,708,260; Apr. 9.
- Player action. T. F. Cheek. 1,704,077; Mar. 5.
- Playground apparatus. G. J. Hanlon. 1,707,854; Apr. 2.
- Playground apparatus. F. B. Hedges. 1,708,883; Apr. 9.
- Playground apparatus. C. E. Hoppes. 1,740,304; Dec. 17.
- Playground apparatus. R. W. Thornton. 1,736,678; Nov. 19.
- Playground apparatus. R. W. Thornton. 1,737,066; Nov. 26.
- Playground apparatus. D. W. Whitman. 1,729,529; Sept. 24.
- Playing ball. H. C. Ebert. 1,697,308; Jan. 1.
- Playing ball. G. L. Pierce. 1,705,096; Mar. 12.
- Playing chords on stringed instruments, Apparatus for. E. Taubert. 1,735,145; Nov. 12.
- Pleating machines, Selector mechanism for. L. Angelus. 1,699,340; Jan. 15.
- Pliers. D. S. Kelleway. 1,710,929; Apr. 30.
- Pliers. W. P. Martinet. 1,714,387; May 21.
- Pliers and wire-twisting tool, Combination. G. Donaldson. 1,740,392; Dec. 17.
- Pliers, Chain. H. J. Friedl. 1,698,474; Jan. 8.
- Pliers, Miner's fuse. J. F. Erbele. 1,732,676; Oct. 22.
- Pliers, Valve. M. H. Harter. 1,740,591; Dec. 24.
- Pliers, Valve-pin. C. T. Zettervall. 1,707,947; Apr. 2.
- Plotting board. F. E. Wright. 1,705,951; Mar. 19.
- Plow. R. J. Altgelt and C. H. Gemmerling. 1,727,852; Sept. 10.
- Plow. A. Beange. 1,732,455; Oct. 22.
- Plow. P. Hansmann and H. Strack. 1,708,297; Apr. 9.
- Plow. J. L. Hipple. 1,725,396; Aug. 20.
- Plow. B. McKissen. 1,727,243; Sept. 3.
- Plow. M. B. Monson. 1,717,804; June 18.
- Plow. A. S. Nelson. 1,732,482; Oct. 22.
- Plow. W. L. Paul. 1,710,489; Apr. 23.
- Plow. O. A. K. Printz. 1,720,691; July 16.
- Plow. O. A. K. Printz. 1,734,878; Nov. 5.
- Plow. C. T. Ray. 1,704,340; Mar. 5.
- Plow. D. E. Ross and W. Aitkenhead. 1,732,862; Oct. 22.
- Plow. A. A. Scarlett. 1,718,762; June 25.
- Plow. J. D. Weber. 1,702,142; Feb. 12.
- Plow. J. M. Williams. 1,709,699; Apr. 16.
- Plow and frame for same, Disk. A. P. McKay. 1,722,850; July 30.
- Plow and pulverizer, Combined. J. B. Davidson. 1,697,678; Jan. 1.
- Plow and soil pulverizer, Combined. J. B. Davidson. 1,697,679; Jan. 1.
- Plow and soil-pulverizing implement, Combined. F. S. Shields. 1,697,665; Jan. 1.
- Plow attachment. B. J. Anderson. 1,727,154; Sept. 3.
- Plow attachment. A. E. Work. 1,730,107; Oct. 1.
- Plow attachment for disk cultivators. J. A. Bridges. 1,732,923; Oct. 22.
- Plow attachment, Sled-axle. C. O. Troxel. 1,712,912; May 14.
- Plow beams, Attachment for. B. F. Shiller. 1,733,914; Oct. 29.
- Plow, Disk. T. Brown and C. G. Strandlund. 1,733,181; Oct. 29.
- Plow, Disk. E. A. Davis. 1,704,178; Mar. 5.
- Plow, Disk. S. B. Hendricks. 1,737,420; Nov. 26.
- Plow draft connection. H. L. Ely. 1,714,354; May 21.
- Plow for railroad spreaders, Front-wing. V. G. Tellis. 1,734,279; Nov. 5.
- Plow, Gang. W. S. Graham. 1,737,880; Dec. 3.
- Plow, Gang. J. V. Holstein. 1,713,829; May 21.
- Plow hitch, Anti-side-draft. P. Hansmann and H. Strack. 1,740,589; Dec. 24.
- Plow, Lister. J. V. Brooks. 1,700,348; Jan. 29.
- Plow, Mole drain. H. R. Jensen. 1,701,235; Feb. 5.
- Plow or other agricultural implement, Power-operated. J. Malonyay. 1,728,209; Sept. 17.
- Plow, Power-driven. F. M. Clement. 1,726,177; Aug. 27.
- Plow, Power-lift. A. Essex. 1,704,468; Mar. 5.
- Plow-releasing hitch, Automatic. L. M. Slocum. 1,702,708; Feb. 19.



- Plow, Reversible. G. O. Lee. 1,721,456; July 16.  
 Plow, Reversible stump-jump disk. G. F. Shave. Re17,293; May 14.  
 Plow, Reversible walking. Z. Porter. 1,730,476; Oct. 8.  
 Plow, Road. W. A. Bonnel. 1,736,575; Nov. 19.  
 Plow, Rotary pick. E. R. Seitz. 1,737,179; Nov. 26.  
 Plow scraper, Disk-. C. G. Strandlund. 1,726,278; Aug. 27.  
 Plow shield. J. J. Capel. 1,738,230; Dec. 3.  
 Plow, Sod. E. J. Kleppe. 1,733,737; Oct. 29.  
 Plow structure, Tractor. R. J. and H. E. Altgelt. 1,719,743; July 2.  
 Plow, Subsoil. E. A. and F. A. Krebs. 1,711,355; Apr. 30.  
 Plow, Subsoil. J. S. Reynolds. 1,699,121; Jan. 15.  
 Plow, Traction. F. W. Reimold. 1,720,608; July 9.  
 Plow, Tractor. R. J. Altgelt. 1,729,639; Oct. 1.  
 Plow, Tractor. T. Brown. 1,722,786; July 30.  
 Plow, Tractor driven. V. P. Marran. 1,722,704; July 30.  
 Plow, Two-share. H. Metz. 1,721,462; July 16.  
 Plow, Two-way power lift. H. S. Smith. 1,713,928; May 21.  
 Plow, Woodwork. R. L. Carter. 1,736,965; Nov. 26.  
 Plowline clamp. W. J. Peterson. 1,735,787; Nov. 12.  
 Plows, Attachment for. L. W. Bartlow. 1,733,046; Oct. 22.  
 Plows, Attachment for. P. D. Ellis. 1,738,364; Dec. 3.  
 Plows, Pulverizing attachment for. C. W. Booth. 1,707,782; Apr. 2.  
 Plows, Rotary tiller for gang. J. B. Davidson. 1,697,677; Jan. 1.  
 Plowshare, Supplemental. E. S. Baker. 1,707,426; Apr. 2.  
 Plowshares, Repair nose for. W. I. Wheeler. 1,717,535; June 18.  
 Plowshield. J. J. Shoemaker. 1,697,544; Jan. 1.  
 Plucking device. H. and W. V. Najarian. 1,724,102; Aug. 13.  
 Plug. L. H. Emery. 1,699,426; Jan. 15.  
 Plug and making, Cylindrical. H. M. Northrup. 1,730,377; Oct. 8.  
 Plug and socket body, Soft-rubber. F. W. Hudson. 1,724,592; Aug. 13.  
 Plug-and-socket connection, Electrical. H. B. Jones. 1,738,709; Dec. 10.  
 Plug and socket, Electric. W. J. Pritchett. 1,736,887; Nov. 26.  
 Plug and wrench, Combined. A. L. Mays and T. P. Cromer. 1,733,690; Oct. 29.  
 Plug, Appliance. J. B. Downing. 1,700,831; Feb. 5.  
 Plug, Attachment. J. A. Fretz. 1,727,233; Sept. 3.  
 Plug, Automatically-controlled electric connection. M. C. Bersted. 1,726,641; Sept. 3.  
 Plug, Automatically-controlled electric connection. M. C. Bersted. 1,741,911; Dec. 31.  
 Plug cap, Attachment. A. J. Blake. 1,730,554; Oct. 8.  
 Plug cap, Attachment. A. C. Gaynor. 1,729,740; Oct. 1.  
 Plug cap, Attachment. A. S. Spidel. 1,712,738; May 14.  
 Plug, Clean out. F. J. Mersfelder and P. Balze. Re17,528; Dec. 17.  
 Plug, Clean-out. F. J. Mersfelder and P. Balze. 1,702,878; Feb. 19.  
 Plug, Connecting. W. T. Boyson. 1,714,763; May 28.  
 Plug, Connecting. W. K. Fleming. 1,741,185; Dec. 31.  
 Plug control for electric irons, etc., Thermostatic. C. G. Anderson. 1,703,711; Feb. 26.  
 Plug dresser. W. E. Knott. 1,734,256; Nov. 5.  
 Plug, Electric-appliance. L. J. Streun. Des. 78,318; Apr. 16.  
 Plug, Electric-socket. J. L. L. Hall. 1,733,797; Oct. 29.  
 Plug, Electrical. N. C. Greene. 1,735,856; Nov. 19.  
 Plug, Electrical attachment. W. Huppert. Des. 80,231; Dec. 31.  
 Plug, Electrical attachment. M. Propp. 1,703,953; Mar. 5.  
 Plug for bottles, Composite. E. Giampietro. 1,722,285; July 30.  
 Plug for core drills. A. F. McQuiston. 1,737,256; Nov. 26.  
 Plug for cylinder locks, Keyhole. S. Sundel. 1,728,310; Sept. 17.  
 Plug for drainage fixtures, Protective. W. S. Fleming. 1,739,067; Dec. 10.  
 Plug for electric heating devices, Attachment. R. H. Cunningham. 1,735,731; Nov. 12.  
 Plug for electric sockets, Extension. C. J. Meder. 1,714,610; May 28.  
 Plug for flatirons, Safety. W. T. Hoofnagle. 1,705,524; Mar. 19.  
 Plug for flatirons, Safety. W. T. Hoofnagle. 1,705,730; Mar. 19.  
 Plug for ingot molds, Refractory. E. L. Messler. 1,702,790; Feb. 19.  
 Plug for strainer pipes. J. H. McEvoy, jr. 1,715,508; June 4.  
 Plug, Fuse. H. F. Delmanhorst. 1,738,174; Dec. 3.  
 Plug fuses, Registering renewable. J. P. Gilliam. 1,741,018; Dec. 24.  
 Plug, Grease. H. B. Spencer. 1,698,773; Jan. 15.  
 Plug handle cap, Electrical attachment. E. A. Muller. Des. 79,741; Oct. 29.  
 Plug, Heaving. R. R. Hall and F. J. Knightlinger. 1,707,659; Apr. 2.  
 Plug, Heaving. C. J. Reeves. 1,724,415; Aug. 13.  
 Plug, Insert. C. Sparks. 1,726,166; Aug. 27.  
 Plug, Jack. P. R. Fortin. 1,706,284; Mar. 19.  
 Plug, Multiple attachment. A. A. Canton and H. Becher. 1,734,073; Nov. 5.  
 Plug packer. E. E. Simpson. 1,734,884; Nov. 5.  
 Plug receptacle, Attachment. A. C. Gaynor. 1,719,363; July 2.  
 Plug receptacles and improved plug receptacles, Making. E. R. Kulka. 1,726,745; Sept. 3.  
 Plug, Renewable-ring washout. C. D. Allen. 1,712,416; May 7.  
 Plug, Safety. S. Page. 1,717,620; June 18.  
 Plug, Separable attachment. G. J. Meuer. 1,703,631; Feb. 26.  
 Plug, Sizing. J. E. Baines and J. P. Bosle. 1,706,513; Mar. 26.  
 Plug, Switch-controlled electrical connector. L. Propp. 1,706,900; Mar. 26.  
 Plug, Thermostatic. G. W. Ufford. 1,710,955; Apr. 30.  
 Plug, Washout. C. D. Allen. 1,712,415; May 7.  
 Plugs, Manufacturing connection. B. K. Ford. 1,722,739; July 30.  
 Plumb bob. E. W. Arms. 1,704,237; Mar. 5.  
 Plumb bob. V. T. Powell. 1,708,778; Apr. 9.  
 Plumbing fixture. J. S. Judell. 1,704,198; Mar. 5.  
 Plumbing fixture. H. Roth. 1,707,541; Apr. 2.  
 Plumbing fixture. V. E. Schmiedeknecht. 1,740,553; Dec. 24.  
 Plumbing fixture. R. W. Wallace. 1,739,621; Dec. 17.  
 Plumbing system. W. J. Luff. 1,700,230; Jan. 29.  
 Plunger. E. W. F. Herrmann. 1,735,757; Nov. 12.  
 Plunger pump. J. H. Jeffries and E. M. Doherty. 1,717,508; June 18.  
 Plunger-wiping device. H. G. Mobley. 1,725,593; Aug. 20.  
 Plywood, Apparatus for making. G. H. Osgood. 1,706,675; Mar. 26.  
 Pneumatic actuating device. M. Fischer. 1,728,267; Sept. 17.  
 Pneumatic and hydraulic apparatus. S. E. Hales. 1,700,044; Jan. 22.  
 Pneumatic cleaner. J. Fertally, sr. 1,728,113; Sept. 10.  
 Pneumatic cushion. A. E. Anderson. 1,726,939; Sept. 3.  
 Pneumatic jack. C. E. Williams. 1,719,740; July 2.  
 Pneumatic spring. R. Sefton. 1,706,187; Mar. 19.  
 Pneumatic wheel. S. Carles and L. Mayolino. 1,718,854; June 25.  
 Pneumatic wheel, Dual. A. M. Lofland. 1,715,610; June 4.  
 Pocket. A. Baum. 1,698,425; Jan. 8.  
 Pocket. H. Feit. 1,734,422; Nov. 5.  
 Pocket. C. K. Larned. 1,724,605; Aug. 13.  
 Pocket attachment for holding pens or pencils. G. W. Faust. 1,706,282; Mar. 19.  
 Pocketbook. S. Maksik. 1,725,093; Aug. 20.  
 Pocketbook. I. L. Peirce. 1,741,071; Dec. 24.  
 Pocketbook and animal brush, Combination. S. J. Silverstein. Des. 78,660; May 28.  
 Pocketbook and bag, Hand. S. R. Goldsmith. 1,735,043; Nov. 12.  
 Pocketbook and vanity case. I. Fingerma. 1,704,040; Mar. 5.  
 Pocketbook top. C. J. McCabe and I. Schoenholz. Re17,514; Dec. 3.  
 Pocketbook top. C. J. McCabe and I. Schoenholz. 1,729,599; Sept. 24.  
 Pocket case. G. P. Samson. 1,712,777; May 14.  
 Pocket construction and making same. W. C. Yund. 1,711,437; Apr. 30.  
 Pocket for knitted garments. W. C. Yund. 1,711,438; Apr. 30.  
 Pocket, Garment. P. Reiss. 1,711,541; May 7.  
 Pocket-lighter-filling station. J. Maas and S. W. Shuttleworth. Des. 78,298; Apr. 16.  
 Pocket, Overall. E. I. Krumpelbeck. 1,717,982; June 18.  
 Pocket, Reinforced. S. E. Davis. 1,706,024; Mar. 19.  
 Pocket, Safety. A. J. Oldewurtel. 1,701,418; Feb. 5.  
 Pocket, Shirt. R. Cohen. 1,708,786; Apr. 9.  
 Pocket, Stage-floor. F. L. Decker. 1,732,553; Oct. 22.  
 Pocket tickler. F. von Marbod. 1,717,077; June 11.  
 Pocket, Waterproof. R. R. Hammer. 1,712,109; May 7.  
 Pocketed table. A. F. Wasmuth. 1,699,496; Jan. 15.  
 Pockets for men's clothing, Making pants. J. F. Falk and H. M. Sachartow. 1,721,180; July 16.  
 Point setter, Glazier's. L. W. Mayer and P. R. Wetzel. 1,734,820; Nov. 5.  
 Polarizing ultra-violet radiations, Apparatus for. W. T. Anderson, jr. and F. W. Robinson. 1,717,360; June 18.  
 Pole. See—  
 Fabricated pole.  
 Pole and support therefor, Center. C. E. Morris. 1,729,958; Oct. 1.  
 Pole, Barber's. W. Juede. Des. 79,335; Sept. 3.  
 Pole, Barber's. A. R. Schwarzkopf and R. R. Wagner. Des. 77,987; Mar. 12.  
 Pole base. W. R. Rutherford. 1,723,376; Aug. 6.  
 Pole bracket. B. A. Plimpton. 1,714,814; May 28.  
 Pole cap, Safety. Corentin Nedelec. 1,727,615; Sept. 10.  
 Pole, Clothesline and telegraph. J. Zureck. 1,728,164; Sept. 10.  
 Pole, Curtain. F. J. Whincap. Des. 79,769-70; Oct. 29.  
 Pole, Fabricated. J. Kahn. 1,718,693; June 25.  
 Pole footing. M. J. Stam. 1,725,023; Aug. 20.  
 Pole, Gin. E. L. Young. 1,719,352; July 2.  
 Pole, Hollow. M. J. Stam. 1,723,216; Aug. 6.  
 Pole mount. R. G. Williams. 1,731,645; Oct. 15.  
 Pole mounting. A. W. Bensley. 1,730,754; Oct. 8.  
 Pole or post protection. C. Hurst. 1,707,397; Apr. 2.  
 Pole-protecting device. R. Beard. 1,735,722; Nov. 12.  
 Pole reinforcement. D. B. Hanna. 1,699,736; Jan. 22.



- Pole reinforcement. G. B. Spring. 1,712,364; May 7.  
 Pole reinforcement. G. B. Spring. 1,726,371; Aug. 27.  
 Pole ring, Drapery-. A. Dlouhy. Des. 77,473; Jan. 15.  
 Pole, Sectional. F. Lane. 1,702,165; Feb. 12.  
 Pole splice, Scaffolding. T. H. Kingston. 1,705,979; Mar. 19.  
 Pole, Tent. C. B. Leffert. 1,734,170; Nov. 5.  
 Pole top, Barber-. G. Albanese. Des. 78,253; Apr. 16.  
 Pole top pin for multiple construction. A. O. Austin. 1,740,641; Dec. 24.  
 Pole, Trolley. A. Prelesnik. 1,733,073; Oct. 22.  
 Poles, Cross-arm attachment for. J. B. Leeper. 1,716,702; June 11.  
 Polish-rod grip. H. A. Melat. 1,703,201; Feb. 26.  
 Polish-rod grip. E. E. Stevenson. 1,716,840; June 11.  
 Polish, Furniture. E. E. Sturm. 1,739,332; Dec. 10.  
 Polisher, Floor. W. A. Lacy. 1,718,695; June 25.  
 Polisher, Floor. H. T. Lang. 1,731,140; Oct. 8.  
 Polisher, Floor. R. V. and C. H. McCurdy. 1,716,453; June 11.  
 Polisher, Roll. T. S. Groves. 1,742,070; Dec. 31.  
 Polishers, Wax distributor for floor. L. N. Gillis. 1,697,274; Jan. 1.  
 Polishing and finishing attachment, Cylinder-bore. R. L. Meaux. 1,738,443; Dec. 3.  
 Polishing and grinding material. B. Szilard. 1,704,308; Mar. 5.  
 Polishing and sorting machine, Combined. R. W. Judson. 1,699,331; Jan. 15.  
 Polishing apparatus. J. P. Saporiti. 1,738,394; Dec. 3.  
 Polishing apparatus, Glass. A. W. Platt. 1,732,695; Oct. 22.  
 Polishing attachment for vacuum cleaners, Floor-. W. L. Keefer. 1,697,918; Jan. 8.  
 Polishing attachment for vacuum cleaners, Floor-. H. T. Lang. 1,713,184; May 14.  
 Polishing cloth. J. C. Kough, jr. 1,707,485; Apr. 2.  
 Polishing, Composition. W. Breitke. 1,709,819; Apr. 16.  
 Polishing composition. R. F. Raynor. 1,708,801; Apr. 9.  
 Polishing composition. K. C. Rawles. 1,733,389; Oct. 29.  
 Polishing device. G. A. Suits. 1,719,280; July 2.  
 Polishing device for furnace conveyers. J. W. Banfield. 1,741,494; Dec. 31.  
 Polishing device, Plug-. F. W. Fraser. 1,717,554; June 18.  
 Polishing device, Shoe-. H. L. Roberts. 1,718,761; June 25.  
 Polishing disk. G. P. Despret. 1,739,294; Dec. 10.  
 Polishing glass, Apparatus for. C. Heuze. 1,716,819; June 11.  
 Polishing machine. D. F. Fristoe. 1,709,613; Apr. 23.  
 Polishing machine. R. F. Gibney. 1,737,416; Nov. 26.  
 Polishing machine. E. K. Holmes. 1,709,171; Apr. 16.  
 Polishing machine. C. T. McGehee. 1,707,198; Mar. 26.  
 Polishing machine. C. H. Thompson. 1,700,115; Jan. 22.  
 Polishing machine, Electric. L. Crane. 1,703,815; Feb. 26.  
 Polishing machine, Floor-. H. E. Schooling. 1,707,575; Apr. 2.  
 Polishing machine, Metal-. S. Berman. 1,704,933; Mar. 12.  
 Polishing machine, Surface-. C. H. Thompson. 1,700,114; Jan. 22.  
 Polishing of glass surfaces. J. Pivin. 1,697,609; Jan. 1.  
 Polishing pad for floor waxers. H. D. Field. 1,724,267; Aug. 13.  
 Polishing plate glass, Apparatus for. H. K. Hitchcock. 1,698,365; Jan. 8.  
 Polishing wire-drawing dies and apparatus therefor. A. Simons. 1,698,458; Jan. 8.  
 Polybasic-acid-polyhydric-alcohol resin and making same. J. H. Schmidt. 1,739,771; Dec. 17.  
 Polychromatic screens for color photography, Device allowing the rapid and continuous drawing of parallel lines or bands, especially in view of making. R. C. M. de Bercegol. 1,706,774; Mar. 26.  
 Polymer of vinyl chloride and making the same. I. Ostromislensky. 1,721,034; July 16.  
 Polymers from crude-alcohol mixtures, Separation of. S. R. Merley. 1,713,346; May 14.  
 Polyphase machines, Single-phase operation of. L. Roebel. 1,712,520; May 14.  
 Polyphase motor-control system. W. R. Yorkey. 1,723,755; Aug. 6.  
 Polyphase motors from a single-phase source, Operating. M. C. Spencer. 1,708,910; Apr. 9.  
 Pontoon-attaching means. A. R. Stalb, jr. 1,704,713; Mar. 12.  
 Pontoon for automobiles. A. L. Dmitrieff. 1,715,905; June 4.  
 Pontoon for boats and the like, Collapsible. N. S. Harter. 1,726,157; Nov. 19.  
 Pontoon nose buffer. L. Haase. 1,731,492; Oct. 15.  
 Pool, Artificial surf-bathing. W. Fisch. 1,701,842; Feb. 12.  
 Pool-ball rack. C. F. Varum. 1,725,494; Aug. 20.  
 Pool-cue tip. G. L. Brochon. 1,710,341; Apr. 23.  
 Pool, Knockdown. J. P. Hooper. 1,740,303; Dec. 17.  
 Pool, Knockdown portable. J. P. Hooper and E. C. Clayton. 1,740,305; Dec. 17.  
 Pool, Swimming. C. M. Mapes and E. Brittan. 1,739,078; Dec. 10.  
 Pool, Swimming. M. I. Wheeler. 1,731,554; Oct. 15.  
 Pop-corn machine. J. R. Burch. 1,711,918; May 7.  
 Pop-corn machine. E. J. Le Claire. 1,704,183; Mar. 5.  
 Pop-corn machine. G. H. Rossebo. 1,727,521; Sept. 10.  
 Pop-corn machine. G. H. Rossebo and H. Waltman. 1,715,390; June 4.  
 Porcelain product and manufacturing the same. A. S. Watts. 1,728,382; Sept. 17.  
 Porcelain ware, Arrangement for handling. J. R. Mitchell. 1,709,733; Apr. 16.  
 Pork-skinning machine. W. H. O'Connor. 1,714,886; May 28.  
 Porous mass and making same. E. Steil. 1,726,323; Aug. 27.  
 Port for open-hearth furnaces, Water-cooled. S. B. Sheldon. 1,729,750; Oct. 1.  
 Port light. E. W. Gustafson. 1,727,595; Sept. 10.  
 Port shield. J. Platt. 1,736,621; Nov. 19.  
 Portable and adjustable light. H. F. Lessmann. 1,739,641; Dec. 17.  
 Portable apparatus. F. Ackerman. 1,741,598; Dec. 31.  
 Portable elevator. A. E. Gilman. 1,718,227; June 25.  
 Portable elevator. M. S. Hayman. 1,721,020; July 16.  
 Portable elevator. N. Sandberg. 1,697,478; Jan. 1.  
 Portable jack. J. R. Henkle. 1,740,299; Dec. 17.  
 Portable shelter. F. R. Gable. 1,734,803; Nov. 5.  
 Portfolio. S. Kraft. 1,734,863; Nov. 5.  
 Portfolio lock. A. Goertz. Des. 77,544; Jan. 22.  
 Portfolio, Paper. A. E. Osborn. Re17,468; Oct. 22.  
 Portrait enlargement visualizer, Photographic. R. F. Barton. 1,739,816; Dec. 17.  
 Position indicating and communicating device for submerged craft. W. R. Blanchard. 1,726,607; Sept. 3.  
 Position indicator. S. Herr. 1,728,904; Sept. 17.  
 Positioning device for card couplers. A. E. Small. 1,696,981; Jan. 1.  
 Positioning hook, Pile-wire-. E. W. Stone. 1,726,506; Aug. 27.  
 Positioning parts on bodies, Apparatus for. S. J. Loneragan. 1,712,925; May 14.  
 Positioning rings in the metallic wall of a container. T. W. Rieke. 1,732,536; Oct. 22.  
 Positioning the reinforcement of concrete structures, Device for. J. B. Martin. 1,708,277; Apr. 9.  
 Post: See—  
 Anchoring post. Furring post.  
 Battery post. Louver post.  
 Binding post. Partition post.  
 Braced fence post. Signal post.  
 Bumper post. Signal post.  
 Fence post. Wall post.  
 Post base, Railing-. H. Clement. 1,725,507; Aug. 20.  
 Post clamp. D. Salustri. 1,710,842; Apr. 30.  
 Post for supporting fishing rods. W. T. Ferguson. 1,716,220; June 4.  
 Post or stake puller. S. Pollock, jr. 1,709,683; Apr. 16.  
 Postal scale. S. P. Buck. 1,732,300; Oct. 22.  
 Postal sheet. L. P. Hazen. 1,708,574; Apr. 9.  
 Poster. W. J. Sweeney. 1,706,596; Mar. 26.  
 Poster board. P. E. Hinkson. 1,713,903; May 21.  
 Poster-display device. C. M. Dabrohu and W. E. Roberts. 1,699,735; Jan. 22.  
 Poster frame, Adjustable. E. E. Paine. 1,738,793; Dec. 10.  
 Poster panel. W. G. Browne and R. W. Olmsted. 1,712,809; May 14.  
 Poster panel, Car. J. C. Bandini. 1,728,850; Sept. 17.  
 Poster sign. U. F. Fultz. Des. 80,028; Dec. 3.  
 Posthole digger. C. Theriot. 1,706,332; Mar. 19.  
 Posting machine, Public-service. H. A. Foothorap. 1,729,166; Sept. 24.  
 Postmarking apparatus. P. H. L. Tiranty. 1,697,031; Jan. 1.  
 Posts, Base for fence. C. G. Welsz. 1,706,684; Mar. 26.  
 Pot: See—  
 Cyanide pot. Rapid-stewing pot.  
 Melting pot.  
 Pot. G. R. Greenslade, F. K. Landgraf, and J. R. Flannery. 1,721,994; July 23.  
 Pot. F. K. Landgraf and E. S. Fitz Simmons. 1,709,729; Apr. 16.  
 Pot and kiln construction. W. Westbury and P. W. Collins. 1,736,026; Nov. 19.  
 Pot attachment. R. B. Nichols and G. E. Grant. 1,730,285; Oct. 1.  
 Pot cleaner. A. Kessler. 1,730,217; Oct. 1.  
 Pot-filling apparatus. Glass-. W. Owen. 1,716,280; June 4.  
 Pot furnace. L. C. Koenig. 1,734,629; Nov. 5.  
 Pot head, Automatic disconnecting. A. C. Rumble. 1,711,397; Apr. 30.  
 Pot lifter, Adjustable. A. Palmquist. 1,737,769; Dec. 3.  
 Pot or similar article. G. N. Allen. Des. 78,137; Apr. 2.  
 Potash alum from solutions containing ferric sulphate. Producing iron-free. A. J. Moxham. 1,732,611; Oct. 22.  
 Potassium carbonate, Production of. R. D. Pike, L. V. Steck, and R. Cummings. 1,716,663; June 11.  
 Potassium ferrocyanide to potassium ferricyanide, Oxidizing. R. Brandt. 1,732,117; Oct. 15.  
 Potato cleaner. R. C. Zuckerman. 1,736,813; Nov. 26.  
 Potato-crisping process, Sweet-. C. C. Baker. 1,718,211; June 25.  
 Potato cutter. P. A. Jorgenson. 1,710,421; Apr. 23.  
 Potato digger. G. W. Bruce. 1,735,993; Nov. 19.  
 Potato digger. J. Hist. 1,715,198; May 28.  
 Potato digger. R. McClaskey. 1,738,074; Dec. 3.  
 Potato digger. J. Reuther. 1,738,795; Dec. 10.  
 Potato digger. R. C. Zuckerman. 1,736,960; Nov. 26.  
 Potato hillier or ridger. W. H. and E. E. Overholt. 1,715,616; June 4.



- Potato masher. L. Doll. 1,712,424; May 7.  
 Potato-slicing machine. A. B. Kerr. 1,715,929; June 4.  
 Potential-limiting device. A. A. Clokey. 1,717,095; June 11.  
 Potential supply means. B. D. Feild and T. C. Standbrook. 1,741,017; Dec. 24.  
 Pottery construction. H. S. Helton. 1,728,967; Sept. 24.  
 Pouch, Letter-carrier's. F. P. Evans. 1,738,426; Dec. 3.  
 Pouch, Tobacco. W. R. Buxton. 1,729,152; Sept. 24.  
 Pouch, Tobacco. T. W. Monroe. 1,733,197; Oct. 29.  
 Poultry carrier. G. M. Mood. 1,731,824; Oct. 15.  
 Poultry, Dressing. C. V. Rosenberger. 1,727,674; Sept. 10.  
 Poultry drinking fountain. E. B. Chisholm. 1,719,100; July 2.  
 Poultry fountain, Sanitary. A. J. Tool. 1,711,366; Apr. 30.  
 Pounder, Clothes. C. H. Canfield. 1,720,465; July 9.  
 Pouring molten metal Apparatus for. J. R. Daesen and L. E. Wemple. 1,736,183; Nov. 19.  
 Powder and making the same, Propellant. A. S. O'Neil. 1,710,869-70; Apr. 23.  
 Powder and treating the same, Smokeless. W. T. Ingraham. 1,710,024; Apr. 23.  
 Powder box. D. L. Compton. 1,709,840; Apr. 23.  
 Powder box. L. M. Rebel. Des. 79,048; July 23.  
 Powder box. J. D. Striss. 1,732,866; Oct. 22.  
 Powder box, Face. G. A. Pfeiffer. 1,733,132; Oct. 29.  
 Powder box, Talcum. H. R. Corey. 1,705,466; Mar. 19.  
 Powder can. E. Hoffman. Des. 79,717; Oct. 29.  
 Powder charge, Propellant. J. B. Fidler. 1,716,434; June 11.  
 Powder container. Loose. J. L. Younghusband. 1,713,588; May 21.  
 Powder dispenser. J. Spring. 1,714,281; May 21.  
 Powder distributor. P. H. White. 1,710,560; Apr. 23.  
 Powder, Face. S. Picker. 1,707,684; Apr. 2.  
 Powder insufflators. F. Arrigo, jr., and F. Sunseri. 1,736,147; Nov. 19.  
 Powder jar. A. E. and M. Sierad. Des. 78,843; June 25.  
 Powder jar, Combination. M. Sierad. Des. 78,591; May 21.  
 Powder particles of spherical shape, Producing metal. E. Podszus and E. Kramer. 1,699,205; Jan. 15.  
 Powder puff. C. Franck. 1,715,827; June 4.  
 Powder puff. G. S. Hershey. Des. 79,192; Aug. 13.  
 Powder-puff package. S. L. Pomerantz. Des. 79,435; Sept. 17.  
 Powder, Quick-burning delay. W. T. Ingraham. 1,716,313; June 4.  
 Powder, Washing. M. J. Rentschler. 1,707,024; Mar. 26.  
 Powdering machine. J. C. Coon. 1,732,641; Oct. 22.  
 Powdering machine. C. T. Hatch. 1,718,418; June 25.  
 Powders, Apparatus for packing. H. J. Glaxner. 1,739,790; Dec. 17.  
 Powdery material, Device for distribution of. R. R. Root. 1,724,805; Aug. 13.  
 Power-absorbing apparatus. E. Kreissig. 1,700,133; Jan. 29.  
 Power-actuated means, Thermostatically-controlled. F. J. Irving. 1,704,943; Mar. 12.  
 Power-actuating mechanism. E. Davis. 1,698,942; Jan. 15.  
 Power actuator. C. S. Bragg and V. W. Kliesrath. 1,731,041; Oct. 8.  
 Power and heat from steam, Process and apparatus for obtaining. W. Schmidt and O. Hartmann. 1,741,378; Dec. 31.  
 Power apparatus. J. J. Veling. 1,734,546; Nov. 5.  
 Power-applying device. A. R. Surpluss. 1,706,864; Mar. 26.  
 Power attachment for motor vehicles. B. D. Barton. Re17,537-8; Dec. 24.  
 Power bed-lasting machine. M. T. Denne. 1,719,653; July 2.  
 Power braking device. E. L. Wilkinson. 1,712,240; May 7.  
 Power chuck. E. P. Bullard, jr. 1,698,254; Jan. 8.  
 Power connection. J. A. Davey, P. H. Davey, and C. L. Gaugler. 1,722,278; July 30.  
 Power control. E. A. Clark. 1,704,426; Mar. 5.  
 Power-control system. A. H. Neuland. 1,741,428; Dec. 31.  
 Power-controlling apparatus. J. T. Cowley. 1,740,500; Dec. 24.  
 Power-controlling mechanism. C. O. Noack. 1,699,116; Jan. 15.  
 Power-demand regulator. W. H. Sommer. 1,704,520; Mar. 5.  
 Power device. Electrically-operated. L. E. Beck. 1,736,643; Nov. 19.  
 Power device, Multihydraulic. J. J. O'Brien. 1,730,862; Oct. 8.  
 Power device, Water and air. F. Tatay. 1,708,807; Apr. 9.  
 Power drive for slides. B. W. Freeman. 1,716,954; June 11.  
 Power-driven bin-gate-actuating device. A. J. Boynton. 1,735,106; Nov. 12.  
 Power-driven shaft unit, Individually-. R. D. Delamere and V. G. Williams. 1,723,680; Aug. 6.  
 Power drum mechanism. M. P. Holmes. 1,708,177; Apr. 9.  
 Power dumping mechanism. E. R. Greer and E. L. Carson. 1,704,480; Mar. 5.  
 Power factor in induction motors, Correction of. C. W. Hough. 1,741,518; Dec. 31.  
 Power-factor regulator. W. Weiler. 1,722,166; July 23.  
 Power-generating system. G. F. Smith. 1,730,340; Oct. 1.  
 Power-generating system, Electric. H. Geisen. 1,737,791; Dec. 3.  
 Power generation, Load division in electric-. F. W. Gay. 1,709,846; Apr. 23.  
 Power hammer and shovel mechanism, Combined. J. Reaney. 1,731,985; Oct. 15.  
 Power installation. W. W. Griffiths. 1,703,064; Feb. 19.  
 Power installation, Marine. A. T. Kasley. Re17,218; Feb. 19.  
 Power installation, Steam-. J. McCallum and H. P. H. Anderson. 1,704,441; Mar. 5.  
 Power instrument and meter. M. G. Benjamin. 1,736,304; Nov. 19.  
 Power lift. A. W. Hudson. 1,710,222; Apr. 23.  
 Power lift for tractor plows. L. C. Hester. 1,717,209; June 11.  
 Power lift for tractors. E. H. Daniel. 1,735,422; Nov. 12.  
 Power-lift implement. H. F. Towner. 1,704,929; Mar. 12.  
 Power lift mechanism for plows. O. A. K. Printz. 1,718,002; June 18.  
 Power-line-carrier current system. C. N. Nebel. 1,733,553; Oct. 29.  
 Power-line signaling. P. H. Evans. 1,736,852; Nov. 26.  
 Power mechanism. F. W. Ott. 1,713,549; May 21.  
 Power mechanism. F. W. Ott. 1,737,768; Dec. 3.  
 Power mechanism, Oil-well. E. Opferkuck. 1,696,967; Jan. 1.  
 Power-multiplying mechanism. D. F. Maitby. 1,712,444; May 7.  
 Power, Method and apparatus for development of. E. M. Gilbert. 1,732,009; Oct. 15.  
 Power-operated brake. L. Krupp. 1,728,797; Sept. 17.  
 Power-operated control apparatus for traffic-controlling systems. W. K. Howe and N. C. L. Brown. 1,703,822; Feb. 26.  
 Power operator for typewriters and the like. A. A. Egli. 1,732,155; Oct. 15.  
 Power plane. J. A. Bosmans. 1,710,721; Apr. 30.  
 Power plant. B. N. Broido. 1,701,171; Feb. 5.  
 Power plant. F. Hodgkinson and R. C. Allen. 1,726,561; Sept. 3.  
 Power plant. E. R. Newton. 1,741,729-30; Dec. 31.  
 Power plant. T. Stein. 1,723,089; Aug. 6.  
 Power plant, Hydraulic. L. F. Moody. 1,722,438; July 30.  
 Power-plant installation. A. Baumann. 1,741,605; Dec. 31.  
 Power-plant installation. H. T. Herr. 1,701,365; Feb. 5.  
 Power plant, Oil-engine. O. A. Banner. 1,710,962; Apr. 30.  
 Power plant, Steam. C. A. French. 1,731,458; Oct. 15.  
 Power plant, Steam. W. G. Noack. 1,709,997; Apr. 23.  
 Power plants, Controlling. H. F. Freeman. 1,708,265; Apr. 9.  
 Power plate presses, Bed-driving mechanism for. A. J. Horton and C. F. Gravenhorst. 1,738,055; Dec. 3.  
 Power press. B. W. Brockett. 1,729,148; Sept. 24.  
 Power press. C. Kerr. 1,702,085; Feb. 12.  
 Power regulator, Motive-. J. D. Spillane. 1,741,381; Dec. 31.  
 Power reverse mechanism. H. D. Gregory. 1,724,926; Aug. 20.  
 Power reverse mechanism for locomotives. W. S. Brown. 1,735,727; Nov. 12.  
 Power shears. P. G. Pater. 1,704,808; Mar. 12.  
 Power shovel. H. L. Mitchell and R. Ljungkull. 1,739,175; Dec. 10.  
 Power shovel. J. D. Rauch. 1,733,753; Oct. 29.  
 Power shovels and the like, Mechanism for. M. I. Bradley. 1,726,210; Aug. 27.  
 Power stations, Control of distant. H. E. Warren. 1,699,128; Jan. 15.  
 Power-steering apparatus. W. Gehrig. Re17,508; Nov. 26.  
 Power supply for thermionic devices. A. N. Fenton. 1,741,691; Dec. 31.  
 Power system. R. A. Beekman. 1,714,897; May 28.  
 Power system. C. L. Heiser. 1,714,908; May 28.  
 Power system. D. E. Jewitt. 1,738,433; Dec. 3.  
 Power system. B. W. Jones. 1,706,119; Mar. 19.  
 Power system, Electrical. J. J. Kane. 1,740,356; Dec. 17.  
 Power system for airplanes, etc. W. E. Higby. 1,704,895; Mar. 12.  
 Power take-off. S. A. Dalager. 1,726,386; Aug. 27.  
 Power take-off. S. Przybyszewski. 1,738,924; Dec. 10.  
 Power take-off. W. G. Schroeder. 1,707,496; Apr. 2.  
 Power take-off, Yielding. R. A. Anderson. 1,727,801; Sept. 10.  
 Power transmission. W. H. Baker, jr. 1,711,220; Apr. 30.  
 Power transmission. G. A. Buvinger and C. Warner. 1,722,273; July 30.  
 Power transmission. G. W. Cole and L. V. Davis. 1,708,924; Apr. 9.  
 Power transmission. J. M. L. Ferrari. 1,717,019; June 11.  
 Power transmission. J. and F. A. Reece. 1,717,466; June 18.  
 Power transmission. J. and F. A. Reece. 1,718,073; June 18.  
 Power transmission. J. and F. A. Reece. 1,718,578-80; June 25.  
 Power transmission. J. and F. A. Reece. 1,720,236; July 9.



- Power transmission. J. and F. A. Recce. 1,720,238; July 9.
- Power transmission. H. Rosenthal. 1,730,786; Oct. 8.
- Power transmission. L. Trento. 1,721,359; July 16.
- Power transmission. L. E. Whiton. 1,713,797; May 21.
- Power transmission. S. G. Wingquist. 1,706,272; Mar. 19.
- Power-transmission apparatus. N. G. Morici. 1,734,143; Nov. 5.
- Power-transmission apparatus. E. M. and A. G. Rayburn. 1,726,454; Aug. 27.
- Power-transmission device. F. Graf. 1,715,596; June 4.
- Power-transmission device. N. G. Morici. 1,712,512; May 14.
- Power-transmission device. C. C. Rhodes. 1,701,823; Feb. 12.
- Power-transmission device. K. Shank. 1,736,291; Nov. 19.
- Power-transmission device. C. W. Weiss. 1,728,883; Sept. 17.
- Power-transmission device, Differential. J. W. Lyons. 1,701,723; Feb. 12.
- Power transmission, Flexible mechanical. S. A. Farrell. 1,727,232; Sept. 3.
- Power transmission for motor vehicles. F. P. Ellsworth. 1,723,251; Aug. 6.
- Power transmission for nonreversible motors. W. S. Gattrell. 1,721,592; July 23.
- Power-transmission lines. T. Varney and M. E. Noyes. 1,703,797; Feb. 26.
- Power-transmission means. C. B. Funk. 1,698,399; Jan. 8.
- Power-transmission means. V. C. Shank. 1,703,407; Feb. 26.
- Power-transmission means. I. I. Tubbs. 1,720,018; July 9.
- Power-transmission mechanism. P. Asmussen. 1,697,628; Jan. 1.
- Power-transmission mechanism. J. Bryant. 1,718,894; June 25.
- Power-transmission mechanism. F. J. Fahle. 1,728,962; Sept. 24.
- Power-transmission mechanism. M. Kreher. 1,741,524; Dec. 31.
- Power-transmission mechanism. R. O. Müller. 1,716,971; June 11.
- Power-transmission mechanism. C. Richards. 1,697,836; Jan. 1.
- Power-transmission mechanism. L. G. Simpson. 1,725,833; Aug. 27.
- Power-transmission mechanism. W. I. Wheeler. 1,722,546; July 30.
- Power-transmission mechanism comprising variable-speed gearing. H. Moran. 1,706,738-9; Mar. 26.
- Power-transmission mechanism for the driving wheels of motor vehicles. A. Abramson. 1,718,099; June 18.
- Power-transmission mechanism, Variable-speed. F. A. Hayes. 1,700,981; Feb. 5.
- Power transmission, Multangular. B. J. Patrick. 1,708,680; Apr. 9.
- Power-transmission unit. L. G. Merritt. 1,730,859; Oct. 8.
- Power transmitter. C. R. Colt. 1,723,468; Aug. 6.
- Power transmitter. J. S. Hunter. 1,698,194; Jan. 8.
- Power transmitter. J. S. Hunter. 1,708,577; Apr. 9.
- Power-transmitting apparatus. D. Lake. Re17,444; Sept. 24.
- Power-transmitting apparatus, Hydraulic. E. J. Ney and M. Hartyanyi. 1,700,417; Jan. 29.
- Power-transmitting attachment for motor vehicles. A. Kohl. 1,729,045; Sept. 24.
- Power-transmitting device. W. J. Mielke. 1,708,230; Apr. 9.
- Power-transmitting device for motor vehicles. J. A. Stumpfenhorst. 1,727,118; Sept. 3.
- Power-transmitting means by oscillatory movements. G. H. Schieferstein. 1,720,574; July 9.
- Power-transmitting mechanism. C. Bittner. 1,725,328; Aug. 20.
- Power-transmitting mechanism. R. H. Goodrich. 1,705,111; Mar. 12.
- Power-transmitting mechanism. W. W. Kelly. 1,739,075; Dec. 10.
- Power-transmitting mechanism. G. A. Klimek. 1,711,095; Apr. 30.
- Power-transmitting mechanism. R. J. Reaney. 1,699,674; Jan. 22.
- Power-transmitting mechanism. W. Schroder. 1,708,903; Apr. 9.
- Power-transmitting mechanism. C. W. Steen. 1,740,046; Dec. 17.
- Power-transmitting mechanism, Belt. P. Klieber. 1,733,963; Oct. 29.
- Power-transmitting mechanism for automobiles and other purposes. N. Gherassimoff. 1,707,393; Apr. 2.
- Power-transmitting mechanism, Variable-speed. L. J. Turner. 1,718,092; June 18.
- Power unit. F. F. Critser. 1,739,353; Dec. 10.
- Power unit. E. H. Dieckmann. 1,699,834; Jan. 22.
- Power unit. S. W. Vollink. 1,715,727; June 4.
- Precipitation apparatus. R. W. Shafor, A. R. Nees, and R. J. Brown. 1,708,332; Apr. 9.
- Precision basing machine for incandescent lamps and similar articles. J. T. Fagan and J. J. Malloy. 1,724,831; Aug. 13.
- Precision instrument. J. E. Richmond. 1,732,195; Oct. 15.
- Precooler for refrigerator cars. J. D. Huston. 1,736,788; Nov. 26.
- Preheater. A. R. McArthur. 1,730,739; Oct. 8.
- Preheater, Feed-water. F. C. Haber. 1,701,262; Feb. 5.
- Preheating feed water, Process and apparatus for. E. F. Holinger. 1,712,559; May 14.
- Preheater for boiler feed water. J. Reszkowski. 1,730,783; Oct. 8.
- Preheater for locomotives. Air. F. Ljungström, I. Broberg, and E. O. Eriksson. 1,740,696; Dec. 24.
- Preparation for cleaning metal preparatory to painting. J. D. Klinger and C. L. Boyle. 1,700,739; Feb. 5.
- Preparation for dyeing the vegetable fiber. J. Rath. 1,724,109; Aug. 13.
- Preparation for treating the skin. N. B. Janssen. 1,730,428; Oct. 8.
- Preparation of fur for shrinking and felting. J. H. Martin. 1,736,829; Nov. 26.
- Preparation of solutions of hydrofluosilicic acid. W. Möller and W. Kretz. 1,720,965; July 16.
- Preparing and dry-cleaning articles. B. M. Savitt. 1,740,271; Dec. 17.
- Preparing animal carcasses for market. P. C. Smith. 1,719,030; July 2.
- Preparing carbon dopes. H. W. A. Dixon. 1,718,049; July 2.
- Preparing highly-polymerized products of unsaturated hydrocarbons. H. Staudinger and H. A. Bruson. 1,720,929; July 16.
- Preparing link sausages, Method and apparatus for. H. E. Dietrich. 1,718,896; June 25.
- Preparing the soil for stimulated crop growth, Apparatus for. T. W. Hicks. 1,725,190; Aug. 20.
- Preselector. J. Blackburn. 1,709,558; Apr. 16.
- Preservation of flour, grain, grain by-products, or the like. R. A. Legendre. 1,702,735; Feb. 19.
- Preservation of metallic surfaces. J. C. Vignos. 1,734,949; Nov. 5.
- Preservation of peanut butter. J. H. Beattie and A. M. Jackson. 1,731,647; Oct. 15.
- Preserved fruits, Manufacture of. A. A. F. Rambaud. 1,717,258; June 11.
- Preserver, Life. J. Murphy. 1,704,368; Mar. 5.
- Preserving, Apparatus for. G. W. Mullen. 1,709,481; Apr. 16.
- Preserving apparatus, Grape. L. A. Cribari. 1,698,430; Jan. 8.
- Preserving citrus-fruit juices. V. R. Kokatnur. 1,715,932; June 4.
- Preserving difficulty-soluble dyestuffs in a state of fine division and the resulting composition. F. Risse and E. Fischer. 1,719,944; July 9.
- Preserving eggs, and the yolks and whites thereof. J. Fousek. 1,724,078; Aug. 13.
- Preserving fish bait. P. Sellen. 1,703,324; Feb. 26.
- Preserving fruit. T. C. Moore. 1,704,367; Mar. 5.
- Preserving jar. E. P. Kirkevold. 1,739,905; Dec. 17.
- Preserving means, Wood. K. H. Wolman. 1,700,010; Jan. 22.
- Preserving metallic surfaces. J. C. Vignos. 1,734,950; Nov. 5.
- Preserving perishable goods in storage and transit. E. von der Lippe-Lipski. 1,742,038; Dec. 31.
- Preserving the luster of organic derivatives of cellulose. C. Dreyfus and H. Platt. 1,740,889; Dec. 24.
- Preserving wood. A. Oberle. 1,717,888; June 18.
- Press: See—
- |                           |                                       |
|---------------------------|---------------------------------------|
| Axle press.               | Plate press.                          |
| Baling or bundling press. | Platen press.                         |
| Baling press.             | Planographic press.                   |
| Bushing press.            | Power press.                          |
| Cable press.              | Pressure press.                       |
| Clinching press.          | Printing press.                       |
| Cutting press.            | Proof press.                          |
| Dental press.             | Punching and riveting press.          |
| Die press.                | Punching press.                       |
| Eccentric press.          | Rimming press.                        |
| Embossing press.          | Screw press.                          |
| Extrusion press.          | Seal press.                           |
| Filter press.             | Shoe press.                           |
| Flask press.              | Shoe-sole press.                      |
| Furniture press.          | Sole-attaching press.                 |
| Garment press.            | Sole press.                           |
| Hand press.               | Sounding-board press.                 |
| Heel press.               | Stamping press.                       |
| High-pressure press.      | Straightening press.                  |
| Hydraulic pot press.      | Tie press.                            |
| Hydraulic press.          | Tobacco press.                        |
| Hydrostatic press.        | Toggle-drawing press.                 |
| Macaroni press.           | Trimming press.                       |
| Meat press.               | Universal press.                      |
| Metal-tube press.         | Wheel mounting and de-mounting press. |
| Pedal-operated press.     |                                       |
| Perfecting press.         |                                       |
- Press. R. T. Anderson. 1,722,881-2; July 30.
- Press. W. D. Bartlett and S. Marquis. 1,702,731; Sept. 3.
- Press. J. Carroll. 1,729,996; Oct. 1.
- Press. G. G. Griest. 1,702,344; Feb. 19.
- Press. C. B. Knudsen. 1,726,155; Aug. 27.
- Press. C. Macheth. 1,715,851; June 4.
- Press. R. F. Morrison. 1,734,741; Nov. 5.
- Press. L. D. Nilson. 1,705,461; Mar. 12.
- Press. W. D. Pierson and F. S. Van Valkenburg. 1,725,300; Aug. 20.



- Press. B. Rollman. 1,696,974; Jan. 1.  
 Press. H. F. Vickers. 1,706,088; Mar. 19.  
 Press and folder, Tubular-plate. E. W. Dean. 1,738,761; Dec. 10.  
 Press and stretcher, Trouser. J. M. Craig and P. J. Georgiu. 1,698,621; Jan. 8.  
 Press attachment for feeding roll leaves. R. Lange. 1,737,593; Dec. 3.  
 Press blanket, Newspaper. W. A. Schwartz. 1,702,620; Feb. 19.  
 Press brake. R. T. Hazelton. 1,739,902; Dec. 17.  
 Press button. W. Tuxhorn. 1,720,981; July 16.  
 Press buttons, Securing means for male parts of. E. Merzinger. 1,707,169; Mar. 26.  
 Press control, Power-. A. A. Byerlein. 1,706,141; Mar. 19.  
 Press device. C. R. Hultgren. 1,733,734; Oct. 29.  
 Press feeder, Punch-. L. Robertson. 1,719,195; July 2.  
 Press for cutting or punching sheet material. A. F. Carlson. 1,738,637; Dec. 10.  
 Press for cutting or punching sheet material. J. R. Oliver. 1,699,247; Jan. 15.  
 Press for forming alimentary pastes. C. Ambrette. 1,724,545; Aug. 13.  
 Press for forming plastic articles. L. W. Hottel. 1,708,178; Apr. 9.  
 Press for forming plastic articles. L. W. Hottel. 1,708,791; Apr. 9.  
 Press for molded-leather articles. W. A. Bohne. 1,740,388; Dec. 17.  
 Press for paper tablets. S. S. Gerrie. 1,734,901; Nov. 5.  
 Press for the extraction of liquids. E. T. Meakin. 1,733,381; Oct. 29.  
 Press for the production of artistic prints and embossings. J. Grunberg. 1,704,567; Mar. 5.  
 Press for the production of artistic prints and impressions. J. Grunberg. 1,740,399; Dec. 17.  
 Press for securing foundations in honey boxes. J. Root. 1,699,253; Jan. 15.  
 Press for ties and similar articles. A. C. Rogers. 1,701,192; Feb. 5.  
 Press for use in paper making. G. D. Kilberry. 1,723,181; Aug. 6.  
 Press for use in the repair and manufacture of boots and shoes, Sole-laying. F. Johnson. 1,741,844; Dec. 31.  
 Press masses from phenolformaldehyde resins, Manufacturing. F. Seebach. 1,720,062; July 9.  
 Press mechanism, Die-. W. Cameron. 1,706,599; Mar. 26.  
 Press stud. E. Merzinger. 1,733,691; Oct. 29.  
 Pressed-in bung ring. F. J. Runser. 1,709,324; Apr. 16.  
 Presser control, Fruit-juice-. P. Guslusk. 1,733,875; Oct. 29.  
 Presser foot. W. S. Shaft. 1,733,828; Oct. 29.  
 Presser-foot-lifting mechanism for sewing machines. F. M. Card. 1,706,872; Mar. 26.  
 Presser foot, Universal. C. W. Dooley. 1,717,099; June 11.  
 Presser for roving-frame flyers. J. W. Redfern. 1,724,777; Aug. 13.  
 Presses and the like, Feed mechanism for embossing. J. R. Wheeler. 1,731,834; Oct. 15.  
 Presses, Cylinder-lifting mechanism for. F. S. English. 1,726,814; Sept. 3.  
 Presses, Feed and discharge mechanism for. C. R. Moon. 1,726,577; Sept. 3.  
 Presses, Finger guard for. W. C. Fellows. 1,735,855; Nov. 19.  
 Presses for boots and shoes, Apparatus for use with sole-laying. F. Johnson. 1,719,376; July 2.  
 Presses, Guard apparatus for power. W. H. Jones. 1,733,227; Oct. 29.  
 Presses, Hand protector for. W. C. Fellows. 1,718,549; June 25.  
 Presses, Nonrepeat mechanism for power. J. E. Loshbough. 1,710,705; Apr. 30.  
 Presses, Removable filtering and washer plate for. M. Michel. 1,713,478; May 14.  
 Presses, Safety device for. R. E. J. Nordquist. 1,701,822; Feb. 12.  
 Presses, Safety mechanism for hydraulic. J. De Francisci. 1,730,356; Oct. 8.  
 Presses, Slip-sheet mechanism for printing. E. R. Linebaugh. 1,722,806-7; July 30.  
 Pressing and ironing machine. R. C. Pauly. 1,717,890; June 18.  
 Pressing and folding mechanism. R. Trejo M. 1,734,654; Nov. 5.  
 Pressing and packing manufactured tobacco. H. P. Taylor. 1,720,015; July 9.  
 Pressing and smoothing device, Seam. J. Dautch. 1,705,902; Mar. 19.  
 Pressing apparatus. L. B. Green. 1,710,698; Apr. 30.  
 Pressing element for pressing machines. A. Kagi. 1,706,786; Mar. 26.  
 Pressing form and making it. J. J. Heys and A. R. Braden. 1,734,294; Nov. 5.  
 Pressing implement. L. Hoffman. 1,737,047; Nov. 26.  
 Pressing iron. B. Kraupner. 1,740,658; Dec. 24.  
 Pressing machine. B. W. Brockett. 1,732,924; Oct. 22.  
 Pressing machine. G. De Cicco. 1,716,118; June 4.  
 Pressing machine. L. C. Kienzie. 1,710,263; Apr. 23.  
 Pressing machine. J. C. Ledbetter. 1,697,124; Jan. 1.  
 Pressing machine. L. C. Orcutt. 1,702,481; Feb. 19.  
 Pressing machine. A. Zeman. 1,710,038; Apr. 23.  
 Pressing-machine attachment. R. E. Green. Re17,216; Feb. 12.  
 Pressing machine, Electrically-operated laundry-. G. W. Johnson and W. P. Beattie. 1,727,013; Sept. 3.  
 Pressing machine for clothes. O. Harootnain. 1,725,514; Aug. 20.  
 Pressing machine, Garment-. F. E. Baker. 1,734,936; Nov. 5.  
 Pressing machine, Garment-. R. J. Beede. 1,715,115; May 28.  
 Pressing machine, Garment-. W. A. Zeidler. 1,704,816; Mar. 12.  
 Pressing machine, Hat-. J. Lake, sr. 1,710,226; Apr. 23.  
 Pressing machine, Pneumatic. J. E. Perrault and L. J. Schroeder. 1,733,692; Oct. 29.  
 Pressing machine, Power-operated. J. P. Singiser. 1,740,045; Dec. 17.  
 Pressing machine (rotating buck). A. D. Lindy. 1,698,954; Jan. 15.  
 Pressing machine, Seam-. W. C. Meyer. 1,736,272; Nov. 19.  
 Pressing machine, Seam-. G. E. Miller. 1,700,097; Jan. 22.  
 Pressing machine, Shoe-. R. E. Duplessis. 1,706,279; Mar. 19.  
 Pressing machine, Tam-. V. P. Writer. 1,725,500; Aug. 20.  
 Pressing machines, Pad-drying means for. E. Davis. 1,698,943; Jan. 15.  
 Pressing machines, Spring pad for. H. A. Steele. 1,706,755; Mar. 26.  
 Pressing means for shirt-pressing machines, Shoulder-. A. B. Clisson and A. R. Braun. 1,720,207; July 9.  
 Pressing trousers, Device for. C. S. Briggs. 1,732,803; Oct. 22.  
 Pressing wax containing oil. F. W. Sullivan, jr., W. J. McGill, and H. L. Walker. 1,720,300; July 9.  
 Pressure-applying device. J. R. Nowack. 1,716,655; June 11.  
 Pressure bags from pneumatic-tire casings, Apparatus for use in removing. W. C. Stevens. 1,738,504; Dec. 3.  
 Pressure balancer for buildings, Automatic atmospheric-. J. L. Mosher. 1,717,399; June 18.  
 Pressure bar. C. H. Greenwood. 1,699,107; Jan. 15.  
 Pressure-control apparatus. E. L. Hough. 1,717,213; June 11.  
 Pressure-control system. T. A. Peebles. 1,703,455; Feb. 26.  
 Pressure-controlled switch, Automatic. V. L. Tannehill. 1,723,635; Aug. 6.  
 Pressure controller and sanitary cleansing apparatus, Combined liquid-. A. T. Watson. 1,719,152; July 2.  
 Pressure-controlling device. E. J. Fritton. 1,714,861; May 28.  
 Pressure cracking treatment of liquid hydrocarbons. E. S. L. Beale, G. B. Coxon, and A. E. Dunstan. 1,708,782; Apr. 9.  
 Pressure device. W. S. Allen. 1,702,990; Feb. 19.  
 Pressure device. M. G. Hodges and A. Schillinger. 1,700,763; Feb. 5.  
 Pressure device, Oil hand-. J. L. Carrillo. 1,719,286; July 2.  
 Pressure-distributing device. T. R. Goldsborough. 1,699,786; Jan. 22.  
 Pressure equalizer. A. Otto. 1,705,265; Mar. 12.  
 Pressure feet for vertical-needle embroidery machines. G. Sieber. 1,699,314; Jan. 15.  
 Pressure-fluid generator. C. E. Johnson. 1,726,491; Aug. 27.  
 Pressure-fluid motor. T. Officer. 1,703,203; Feb. 26.  
 Pressure fountain for paint. I. Sacks. 1,716,981; June 11.  
 Pressure gauge. B. F. Corwin. 1,697,717; Jan. 1.  
 Pressure gauge. R. E. Greenburg. 1,715,128; May 28.  
 Pressure gauge. H. H. Motheral. 1,729,178; Sept. 24.  
 Pressure gauge. J. W. Motherwell. 1,734,977; Nov. 12.  
 Pressure gauge. F. C. Reilly. 1,700,449; Jan. 29.  
 Pressure gauge, Absolute-. R. W. Brown. 1,715,988; June 4.  
 Pressure gauge, Compensated absolute-. C. W. Bristol. 1,709,561; Apr. 16.  
 Pressure gauge, Differential. L. B. Winton. 1,725,554; Aug. 20.  
 Pressure head for piston-ring grinders. C. E. Johnson. 1,736,199; Nov. 19.  
 Pressure hose and making same. G. A. Ansell. 1,741,491; Dec. 31.  
 Pressure indicator. F. L. Main. 1,731,632; Oct. 15.  
 Pressure lift for oil wells. W. McCarty. 1,710,937; Apr. 30.  
 Pressure lubricator, High-. C. G. Butler. 1,737,783; Dec. 3.  
 Pressure method of working oil sands. L. Ranney. 1,722,679; July 30.  
 Pressure motor, Counter-thrust-. C. G. Edwards. 1,701,322; Feb. 5.  
 Pressure motor, Rotary fluid-. G. H. Gilman. 1,738,645; Dec. 10.  
 Pressure-operated switch. F. J. Heideman. 1,704,191; Mar. 5.  
 Pressure periodically, Apparatus for applying and maintaining. C. Turner. 1,697,740; Jan. 1.  
 Pressure press, High-. S. Hiller. 1,739,459; Dec. 10.  
 Pressure processing apparatus. G. P. White. 1,732,321; Oct. 22.  
 Pressure-reducing means. J. C. Purdie. 1,733,315; Oct. 29.



- Pressure-regulating, demand-limiting, and volumetric meter. R. G. Griswold. 1,702,114; Feb. 12.
- Pressure regulation. G. Campbell. 1,729,819-20; Oct. 1.
- Pressure regulator. W. L. Burns. 1,726,645; Sept. 3.
- Pressure regulator. J. Frankenberg. 1,716,657; May 14.
- Pressure regulator. J. C. Groble, J. Pollock, and W. C. Groble. 1,731,773; Oct. 15.
- Pressure regulator. S. E. B. Soderberg. 1,701,865; Feb. 12.
- Pressure regulator, Automatic. J. C. Groble. 1,718,290; June 25.
- Pressure regulator, Automatic. H. F. MacMillan. 1,731,145; Oct. 8.
- Pressure regulator for homogenizing device. J. M. McClatchie. 1,734,389; Nov. 5.
- Pressure-relief plug. W. C. Smith. 1,717,856; June 18.
- Pressure-relief system. H. G. Hill. 1,725,455; Aug. 20.
- Pressure-relieving device. J. Chmura. 1,713,420; May 14.
- Pressure-seated cap for receptacles, Quick-acting. W. Heusser. 1,720,789; July 16.
- Pretzel-cooking apparatus. W. Ehrhart. 1,707,786; Apr. 2.
- Pretzel-stick dough blanks, Apparatus for making. G. W. Holtzman. 1,701,850; Feb. 12.
- Preventing explosions in liquid-air apparatus. R. G. Aubert. 1,717,540; June 18.
- Preventing fires in the vicinity of electric switches, Method and apparatus for. G. A. Burnham. 1,737,637; Dec. 3.
- Preventing formation of ice on aeroplanes, Device for. C. Koch. 1,716,276; June 4.
- Preventing the formation of scale in a boiler, Means in the feed line for. J. W. Fowler. 1,710,535; Apr. 23.
- Preventing the formation of scale, Method and composition for. J. Alsberg. 1,717,905; June 18.
- Preventive, Gapeworm. O. M. Fisher. 1,702,823; Feb. 19.
- Price card and support. W. S. Wilson. 1,741,669; Dec. 31.
- Price indicator. W. H. Elsey. 1,723,472; Aug. 6.
- Price indicator. A. Poirier. 1,727,079; Sept. 3.
- Price indicator for liquid-dispensing pumps. J. B. Raper. 1,708,779; Apr. 9.
- Price-marking machine, Tag-. F. Kohnle. 1,709,354; Apr. 16.
- Price scale. J. W. Bryce. 1,706,870; Mar. 26.
- Price tag, Interchangeable hanging. M. E. Marsh. 1,712,966; May 14.
- Primary battery. W. A. F. Bleek. 1,699,580; Jan. 22.
- Primary battery. M. L. Martus, E. H. Becker, and J. G. Ross. 1,706,895; Mar. 26.
- Primary battery. M. L. Martus, E. H. Becker, and J. G. Ross. 1,725,716; Aug. 20.
- Primary cell. D. O. Walden. 1,720,808; July 16.
- Prime-mover-control system. H. V. Nye and R. H. Earle. 1,706,808; Mar. 26.
- Prime-mover-control system. A. Pfau. 1,706,812; Mar. 26.
- Prime mover, Hydraulic. A. Beurrier. 1,713,366; May 14.
- Prime-mover plant. H. Bany and H. T. Seeley. 1,717,302; June 11.
- Primer and lubricator for gasoline engines, Combined. G. A. Monument. 1,739,728; Dec. 17.
- Primer composition. H. Rathsburg. Re17,540; Dec. 31.
- Primer gasifier. T. R. Brownridge. 1,724,789; Aug. 13.
- Primer lock. E. Bartels. 1,734,152; Nov. 5.
- Priming cup. A. Shields. 1,697,330; Jan. 1.
- Priming device for internal-combustion engines. R. J. Folse. 1,722,044; July 23.
- Priming means for internal-combustion engines. C. G. Mahana. 1,731,430; Oct. 15.
- Priming mechanism for hydroturbine air pumps. I. C. Jennings. 1,702,118-19; Feb. 12.
- Priming mixture, Noncorrosive. J. D. McNutt. 1,718,370; June 25.
- Priming system for centrifugal pumps. C. H. Goyne. Re17,371; July 9.
- Print washer. C. B. Trussell. 1,739,742; Dec. 17.
- Printed paper web. J. A. B. Smith. 1,714,574; May 28.
- Printer. H. E. Wheeler. 1,739,110; Dec. 10.
- Printer and process of printing photographic films. L. Brown. 1,721,202; July 16.
- Printer, Film. F. B. Thompson. 1,725,944; Aug. 27.
- Printer, Photographic-film. H. O. Carleton. 1,738,095; Dec. 3.
- Printer, Photographic projection. E. C. Fritts and K. C. D. Hickman. 1,704,794; Mar. 12.
- Printer, Telegraph. A. H. Shangle. 1,719,489; July 2.
- Printer's angle-furniture unit. C. S. Fitzgerald. 1,714,976; May 28.
- Printer's chase. F. Greene. 1,728,561; Sept. 17.
- Printer's chase. H. F. Schroeder. 1,712,741; May 14.
- Printer's composing stick. H. B. Rouse. 1,711,543; May 7.
- Printer's frame. J. J. Sullivan. 1,700,990; Feb. 5.
- Printer's frame. J. J. Sullivan. 1,701,513; Feb. 12.
- Printer's galley. R. B. Smart. 1,705,380; Mar. 12.
- Printers' leads or slugs, Apparatus for the manufacture of. W. A. Walters. 1,702,528; Feb. 19.
- Printer's quoin. O. C. Wiedemann. 1,739,111; Dec. 10.
- Printer's registering device. H. T. Simpson. 1,711,212; Apr. 30.
- Printing. F. M. Allen. 1,737,348; Nov. 26.
- Printing. A. L. Grammer. 1,711,596; May 7.
- Printing. J. E. Hydeman. 1,721,397; July 16.
- Printing and making the same, Make-ready for plural. R. Miehle. 1,730,229; Oct. 1.
- Printing and registering mechanism. A. H. Pitney and J. W. Ogden. 1,721,790; July 23.
- Printing and stenciling device. O. Halvorsen and S. F. Kiesling. 1,733,876; Oct. 29.
- Printing apparatus. J. M. Cooper. 1,736,034; Nov. 19.
- Printing apparatus. G. A. Mayer. 1,717,053; June 11.
- Printing apparatus. C. B. Trussell. 1,722,719; July 30.
- Printing apparatus for cigarette-making machines. W. E. Molins. 1,723,878; Aug. 6.
- Printing, Apparatus for offset. W. Gegenheimer and E. E. Barney. 1,700,219; Jan. 29.
- Printing apparatus, Work-ejecting mechanism for. J. A. Hult. 1,721,022; July 16.
- Printing appliance. F. Hartman. 1,736,912; Nov. 26.
- Printing attachment for envelope-folding machines. E. B. Berkowitz. 1,706,433; Mar. 26.
- Printing attachment for paper-box machines. J. Gerritson and C. H. George. 1,702,602; Feb. 19.
- Printing by means of a mechanically operated and controlled spatter or spraying nozzle, Spatter. F. Hübl. 1,701,568; Feb. 12.
- Printing continuous-strip machine, Automatic. C. A. Swenson. 1,711,333; Apr. 30.
- Printing cylinders, Process of and apparatus for preparing. N. Littell. 1,737,378; Nov. 26.
- Printing device. W. H. Conant. 1,724,749; Aug. 13.
- Printing device, Dial scale. M. A. Sweet and G. W. Britton. 1,719,281; July 2.
- Printing device, Insert-. A. Gydesen, K. A. Froberg, and W. J. Keenan. 1,737,925; Dec. 3.
- Printing element and producing the same. A. R. Golrick. 1,723,612; Aug. 6.
- Printing, folding, or other machine, Apparatus for feeding folded or unfolded sheets to a. G. Spiess. 1,705,505; Mar. 19.
- Printing for the blind. E. E. Bramlette. 1,726,803; Sept. 3.
- Printing form and producing same. E. S. Ballard. Re-17,179; Jan. 1.
- Printing frame, Vacuum-pressure. A. T. Koppe. 1,702,232; Feb. 12.
- Printing machine. M. L. Abrams and A. J. Gies. 1,716,942; June 11.
- Printing machine. R. J. Anderson. 1,708,750; Apr. 9.
- Printing machine. A. S. Busk. 1,730,122; Oct. 1.
- Printing machine. J. S. Duncan. 1,708,966; Apr. 16.
- Printing machine. T. W. Hicks. 1,698,544; Jan. 8.
- Printing machine. H. E. Hubbard, C. C. McCain, and H. L. Thompson. 1,721,996; July 23.
- Printing machine. W. C. Huebner. 1,727,600; Sept. 10.
- Printing machine. J. E. Johnson. 1,738,721; Dec. 3.
- Printing machine. J. Krell. 1,706,531; Mar. 26.
- Printing machine. J. Krell. 1,708,018; Apr. 9.
- Printing machine. J. Krell. 1,717,230; June 11.
- Printing machine. J. Krell. 1,717,231; June 11.
- Printing machine. H. W. Lam and F. S. Ougheltree. 1,704,749; Mar. 12.
- Printing machine. F. E. MacCordy. 1,706,033; Mar. 19.
- Printing machine. W. E. Molins. 1,716,237; June 4.
- Printing machine. S. O'Hara. 1,697,926; Jan. 8.
- Printing machine. F. L. Rawson. 1,710,551; Apr. 23.
- Printing machine. F. Waite. 1,714,061; May 21.
- Printing machine, Block-. W. A. K. Harris. 1,731,896; Oct. 15.
- Printing machine, Book-back-. H. Tolman. 1,697,799; Jan. 1.
- Printing machine, Border-. A. E. Kaiser. 1,729,783; Oct. 1.
- Printing machine, Box-. A. E. Roe. 1,721,922; July 23.
- Printing machine, Check-. J. J. Duffie. 1,715,218; May 14.
- Printing machine, Color-. A. Szabo. 1,699,929; Jan. 22.
- Printing machine, Combined color and flock. G. Simpson. 1,739,264; Dec. 10.
- Printing machine, Curved-surface. J. H. Damon. 1,728,151; Sept. 10.
- Printing machine for printing sheets on both sides, Intaglio-. O. Wilhelm. 1,703,699; Feb. 26.
- Printing machine for spheres and the like. F. A. Lovegrove. 1,728,351; Sept. 17.
- Printing machine, Mail-. W. F. Schweiger. 1,737,339; Nov. 26.
- Printing machine, Metal-. J. F. Gail. 1,702,769; Feb. 19.
- Printing machine, Multicolor intaglio-. O. Wilhelm. 1,705,081; Mar. 12.
- Printing machine, Multiunit. H. V. Ball. 1,741,122; Dec. 24.
- Printing machine, Multiunit. J. J. Halliwell. 1,717,381; June 18.
- Printing machine, Number-plate-. J. F. Kiely. 1,735,252; Nov. 12.
- Printing machine, Offset-. F. Fischer. 1,718,900; June 25.
- Printing machine particularly for tickets, tickets of admission, receipts, and the like. G. Corse. 1,738,422; Dec. 3.
- Printing machine, Photographic-. W. A. Flower. 1,737,965; Dec. 3.
- Printing machine, Photogravure-. W. Greaves. 1,722,961; July 30.
- Printing machine, Plate-. A. J. Horton. 1,714,507; May 28.
- Printing machine, Rotary. J. P. Eriksen. 1,733,252; Oct. 29.
- Printing machine, Ticket-. G. W. Henry, Jr. 1,715,290; May 28.



- Printing machine, Weighing and ticket-. G. F. Hochrien. 1,736,284; Nov. 19.
- Printing machinery. F. Hübl. 1,732,683; Oct. 22.
- Printing machinery, Operating ductor rollers on. H. Gearing. 1,698,301; Jan. 8.
- Printing machines, and more particularly in rotary printing machines, Raising, changing, and driving the paper web rolls in. A. Fallot. 1,742,029; Dec. 31.
- Printing machines, Application of sheets to. W. Mailaender. 1,704,618; Mar. 5.
- Printing machines, Cylinder adjustment for offset-. A. J. Graf and W. K. Eckhard. 1,739,963; Dec. 17.
- Printing machines, Ejector for. H. L. Thompson. 1,724,380; Aug. 13.
- Printing machines, Preventing damage to the doctor and printing cylinder of copper-plate. C. Dexheimer. 1,736,431; Nov. 19.
- Printing machines, Sheet-delivery apparatus for use on. A. W. Ranger. 1,728,444; Sept. 17.
- Printing machines, Type bed of. J. N. Banks. 1,728,386; Sept. 17.
- Printing mechanism. J. A. Hult. 1,711,148; Apr. 30.
- Printing mechanism. E. Raczy. 1,701,307; Feb. 5.
- Printing mechanism for cash registers, Total-. J. A. Werner. 1,723,393; Aug. 6.
- Printing mechanism for toothbrushes and like articles. M. P. Wetmore. 1,705,277; Mar. 12.
- Printing mechanism, Margin-. A. R. Vickers. 1,719,148; July 2.
- Printing mechanism of cash registers. A. Radermacher. 1,702,171; Feb. 12.
- Printing, Method and apparatus for imbibition. D. F. Comstock. 1,707,710; Apr. 2.
- Printing, Method and apparatus for preventing offset in. T. E. Knowlton. 1,731,467; Oct. 15.
- Printing of characters, figures, or numerals of continuous form by the use of stencils. T. Read. 1,703,246; Feb. 26.
- Printing of colored designs, on walls or other large surfaces, Apparatus for the. O. Mellinger. 1,705,415; Mar. 12.
- Printing, Photographic line. W. N. and A. R. Baker. 1,704,356; Mar. 5.
- Printing plate and block. G. B. Swann. 1,715,214; May 28.
- Printing plate and producing the same, Halftone photo-mechanical. A. H. Spalding and J. M. Chankalian. 1,709,327; Apr. 16.
- Printing-plate-locking mechanism. H. A. W. Wood. 1,716,609; June 11.
- Printing plates, Finishing. H. E. Woodward. 1,724,741; Aug. 13.
- Printing plates from electrotypes, Production of. L. C. Turnock. 1,727,259; Sept. 3.
- Printing plates, Making. W. M. Kelly. 1,707,729; Apr. 2.
- Printing plates, Making photomechanical. F. T. Powers. 1,709,320; Apr. 16.
- Printing plates, Producing. R. V. Graves. 1,733,343; Oct. 29.
- Printing plates, Production of. M. Ullmann. 1,704,523; Mar. 5.
- Printing plates, Straightening. W. E. Hermance. 1,728,207; Sept. 17.
- Printing positive pictures in natural colors, Apparatus for. J. H. Powrie. 1,717,405; June 18.
- Printing press. M. W. Brushhaber. 1,716,108; June 4.
- Printing press. M. W. Brushhaber. 1,727,426; Sept. 10.
- Printing press. C. H. Cochrane. 1,711,489; May 7.
- Printing press. R. Horn. 1,709,575; Apr. 16.
- Printing press. W. M. Kelly. 1,737,502; Nov. 26.
- Printing press. W. M. Kelly. 1,741,040; Dec. 31.
- Printing press. J. P. Nissen, jr. 1,699,505; Jan. 15.
- Printing press. C. G. Pritchard. 1,700,139; Jan. 29.
- Printing press. W. H. Schuyler. 1,706,988; Mar. 26.
- Printing press. T. C. Spelling. 1,703,326; Feb. 26.
- Printing press. R. Weide. 1,709,812; Apr. 16.
- Printing-press attachment. B. Margwarth. 1,732,653; Oct. 22.
- Printing-press bed. W. S. Warnock. 1,711,509; May 7.
- Printing-press delivery. C. W. Harrold. 1,700,128; Jan. 29.
- Printing-press detail. P. J. Weirich. 1,700,917; Feb. 5.
- Printing press, Double-deck. H. A. W. Wood. Re17,376; July 16.
- Printing press, Double-deck. H. A. W. Wood. 1,699,729; Jan. 22.
- Printing-press feeder. J. W. Hoag. 1,724,199; Aug. 13.
- Printing press, Multicolor-. D. J. Scott. 1,738,323-4; Dec. 3.
- Printing press, Multicolor flat-bed web-. P. F. Cox. 1,735,730; Nov. 12.
- Printing press, Multiple-width. H. A. W. Wood. 1,733,707; Oct. 29.
- Printing press, Platen. V. Jerecek. 1,728,830; Sept. 17.
- Printing-press roller. W. C. Huebner. 1,727,978; Sept. 10.
- Printing press, Rotary. R. Grosskopf. 1,714,089; May 21.
- Printing press, Rotary web. H. M. Barber. 1,732,215; Oct. 22.
- Printing presses and paper-folding machines, Automatic stopping device for. R. O. Holt. 1,713,757; May 21.
- Printing presses and the like, Web-assembling apparatus for. L. A. Schmidt. 1,709,632; Apr. 16.
- Printing presses, Attachment for. P. P. Hemberger. 1,712,075; May 7.
- Printing presses, Automatic feeder for. V. C. Epping. 1,703,268; Feb. 26.
- Printing presses, Driving mechanism for. A. J. Cline. 1,734,077; Nov. 5.
- Printing presses, Ink divider for. H. F. Betzinger. 1,699,389; Jan. 15.
- Printing presses, Ink-regulating mechanism for extended delivery devices of. F. S. English. 1,724,075; Aug. 13.
- Printing presses, Letter attachment for. E. Kirkbride. 1,718,363; June 25.
- Printing presses, Paper-feeding mechanism for. I. I. Stone. 1,722,508; July 30.
- Printing presses, Plate locker for. H. A. Heinz. 1,731,662; Oct. 15.
- Printing presses, Plate-locking mechanism for. W. Durrant. 1,733,653; Oct. 29.
- Printing presses, Signature-delivery mechanism for. H. M. Barber. 1,701,943; Feb. 12.
- Printing presses, Spray control for. H. C. Cole. 1,724,748; Aug. 13.
- Printing process. I. Gurwick. 1,714,265; May 21.
- Printing process, Dry-offset-. V. Dietz. 1,741,758; Dec. 31.
- Printing roller, Soft-rag. C. G. Hampson. 1,741,698; Dec. 31.
- Printing rollers, Device for obtaining adjustably interspaced and inclined hatchings in the electromagnetic process for engraving. A. and J. Teissere. 1,730,955; Oct. 8.
- Printing rollers, Making and repairing. C. Hamer. 1,738,995; Dec. 10.
- Printing, sharpening, and vending machine, Coin-controlled pencil. R. C. Butler. 1,702,811; Feb. 19.
- Printing sheets or films, Preparing and registering. W. C. Huebner. 1,736,914; Nov. 26.
- Printing surface and process of printing the same. J. K. Snyder. 1,717,947; June 18.
- Printing surfaces and products thereof, Producing. J. K. Snyder. 1,717,946; June 18.
- Printing system for accounting machines, Cipher-. F. M. Carroll. 1,702,863; Feb. 18.
- Printing telegraph. G. S. Hiltz. 1,732,601; Oct. 22.
- Printing telegraph. G. S. Hiltz and W. F. Purcell. 1,732,602; Oct. 22.
- Printing-telegraph system. G. S. Hiltz and W. F. Purcell. 1,711,498; May 7.
- Printing textile fabrics, Apparatus for. M. Ratignier. 1,703,015; Feb. 19.
- Printing tickets and the like, Apparatus for. F. Eller. 1,715,451; June 4.
- Printing wall board, Apparatus for. J. Schumacher. 1,719,199; July 2.
- Printing with vat dyestuffs mixed with cellulose esters or ethers. E. Pfeiffer. 1,710,007; Apr. 23.
- Printings on leather, Production of washable. C. S. Friedman. 1,716,120; June 4.
- Printings, Producing fast. A. Zitscher and F. Muris. 1,737,905; Dec. 3.
- Prints, Finishing. C. M. Boyce. 1,725,699; Aug. 20.
- Prints, Method of and apparatus for making and finishing. C. M. Boyce. 1,719,796; July 2.
- Prism affording parallel vision, Reversing. P. Nichterlein. 1,719,443; July 2.
- Prism, Coincidence. G. W. Moffitt. 1,722,964; July 30.
- Prism for glare shields and using same. H. E. Wetherbee and R. F. Grant. 1,719,154; July 2.
- Probe device, Illuminated. R. H. Wappler. 1,727,495; Sept. 10.
- Process, plant, and apparatus for the industrial treatment of coconuts and their constituents, particularly coconut fibers. B. G. H. van der Jagt. 1,713,681; May 21.
- Proctotherapy apparatus. O. B. Schellberg. 1,713,717; May 21.
- Producing materials in finely-divided form. J. E. Harris. 1,739,068; Dec. 10.
- Product from sulphite waste liquor, Nondeliquescent. P. Onnertz, H. Wesche, and K. Brodersen. 1,731,433; Oct. 15.
- Production of inspissated sugar fruits, Rapid process for the automatic. B. Gernhardt. 1,726,482; Aug. 27.
- Production of stereoacoustic photo-films, Method and arrangement for the. F. Schroeter. 1,708,523; Apr. 9.
- Products arising when coal is liquefied by hydrogenation, Working down the. K. Schoenemann. 1,709,957; Apr. 23.
- Products from organized substances, Valuable. R. Griessbach and O. Ambros. 1,724,706; Aug. 13.
- Products from spent sulphite, Recovery of valuable. G. A. Richter. 1,710,272; Apr. 23.
- Products having a basis of cellulose derivative, Manufacture of. C. Dreyfus. 1,732,330; Oct. 22.
- Program transmission over wires. J. F. Toomey and H. E. Phelps. 1,729,649; Oct. 1.
- Projectile. P. R. Aronson. 1,730,871; Oct. 8.
- Projectile. F. Stendebach. 1,709,414; Apr. 16.
- Projectile for breaking wire entanglements. W. A. Brodie. 1,702,718; Feb. 19.
- Projecting apparatus. E. A. Bernstein. 1,698,872; Jan. 15.
- Projecting apparatus. W. H. Hirschfeld. 1,698,096; Jan. 8.
- Projecting apparatus. D. E. Stalcup. 1,711,909; May 7.
- Projecting apparatus, Shadow-. A. R. Meissner. 1,703,945; Mar. 5.
- Projecting colored beams of light, Apparatus for. P. W. Berry. 1,711,303; Apr. 30.
- Projecting device. H. L. De Zeng. 1,698,013; Jan. 8.
- Projecting images and apparatus therefor. G. H. S. McNair. 1,704,756; Mar. 12.



- Projecting light, Apparatus for. J. T. Beechlyn. 1,698,905; Jan. 15.
- Projecting machine. H. Lubé. 1,703,891; Mar. 5.
- Projecting machine. B. A. Proctor. 1,714,816; May 28.
- Projecting machine. G. E. Taylor. 1,730,251; Oct. 1.
- Projecting machine. E. E. Wagner. 1,729,304; Sept. 24.
- Projecting machines, Air-cooling mechanism. B. A. Proctor. 1,716,322; June 4.
- Projecting motion pictures in color, Apparatus for. M. B. Du Pont. 1,709,341; Apr. 16.
- Projection apparatus. L. W. Bowen. 1,737,993; Dec. 3.
- Projection apparatus. K. and J. W. Brenkert. 1,722,976; July 30.
- Projection apparatus. K. and J. W. Brenkert. 1,738,942; Dec. 10.
- Projection apparatus. K. and J. W. Brenkert. 1,738,944; Dec. 10.
- Projection apparatus. H. N. Ott. 1,706,897; Mar. 26.
- Projective apparatus. C. J. Rodman and C. A. Styer. 1,740,477; Dec. 24.
- Projection apparatus. S. Stark. 1,720,011; July 9.
- Projection apparatus for stereoscopic views and cinematographic films. C. M. Fox. Re17,350; July 2.
- Projection machine. C. Thurstone. 1,699,169; Jan. 15.
- Projection screens, Making. A. C. Payne. 1,715,381; June 4.
- Projection system, Opaque. J. T. Remay and T. K. Meloy. 1,719,450; July 2.
- Projections on a sheet of metal, Forming integral tubular. J. Karmazin. 1,699,361; Jan. 15.
- Projector. R. P. De Vault. 1,738,762; Dec. 10.
- Projector. S. L. Leiby. 1,740,608; Dec. 24.
- Projector. A. Stuber. 1,704,811; Mar. 12.
- Projector. H. C. Wellman. 1,704,814; Mar. 12.
- Projector for colored motion pictures. W. M. Thomas. 1,741,385; Dec. 31.
- Projector, Stereoscopic. J. W. Brenkert and K. Brenkert. 1,738,943; Dec. 10.
- Projector table. W. Henk. 1,735,276; Nov. 12.
- Projector units, Method of and apparatus for making. C. H. Kelsea. 1,712,147; May 7.
- Proof press. A. T. Koppe. 1,715,712; June 4.
- Proof press. C. L. Waterston. 1,730,181; Oct. 1.
- Proofing metal, especially iron and steel, against rust. W. H. Cole. 1,719,463; July 2.
- Proofing of iron and steel against rust. W. H. Cole. 1,719,464; July 2.
- Prop. Clothes. A. M. McKinney. 1,726,446; Aug. 27.
- Prop. Clothesline. J. P. Guihen. 1,735,200; Nov. 12.
- Prop. Clothesline. W. Kanter. 1,716,779; June 11.
- Prop. Clothesline. C. H. Watt. 1,700,343; Jan. 29.
- Propagating device, Portable and extensible. G. E. Edwards. 1,738,363; Dec. 3.
- Propellant Powders. A. S. O'Neil. 1,709,868; Apr. 23.
- Propeller. G. Checkley. 1,717,663; June 18.
- Propeller. A. M. Deering. 1,733,251; Oct. 29.
- Propeller. F. Hoffman. 1,723,619; Aug. 6.
- Propeller. F. J. Martens and C. O. Thompson. 1,715,071; May 28.
- Propeller. A. Schertz. 1,725,482; Aug. 20.
- Propeller. E. A. Schroeder. 1,720,969; July 16.
- Propeller. J. R. Taylor. 1,722,182; July 23.
- Propeller. E. J. Watson. 1,729,974; Oct. 1.
- Propeller, Aeroplane. W. K. Dwell. 1,711,047; Apr. 30.
- Propeller, Aeroplane. F. W. Jatunn. 1,699,699; Jan. 22.
- Propeller, Aeroplane. W. Kuleck. 1,730,432; Oct. 8.
- Propeller and making same. T. A. Dicks. 1,713,500; May 14.
- Propeller arrangement for flying machines, airships, and the like. J. A. Hallander. 1,719,225; July 2.
- Propeller attachment. W. H. Wendt. 1,719,860; July 9.
- Propeller, Automatic feathering. M. J. Casey. 1,718,525; June 25.
- Propeller, Device for driving a fin-shaped. W. Meindersma. 1,729,676; Oct. 1.
- Propeller for aeroplanes. J. M. Martin. 1,714,917; May 28.
- Propeller for motor boats. E. M. Tolston. 1,708,489; Apr. 9.
- Propeller for surface watercraft. W. J. Roe. 1,713,448; May 14.
- Propeller guard. W. J. Danckwart. 1,735,675; Nov. 12.
- Propeller guard. G. C. Thrift. 1,735,912; Nov. 19.
- Propeller means for vessels. F. Alessi. 1,710,562; Apr. 23.
- Propeller means, Sled-. C. E. McCormack and T. E. Ulrich. 1,706,932; Mar. 26.
- Propeller mechanism. F. J. Krödel. 1,708,475; Apr. 9.
- Propeller mounting. R. T. Svendsen and D. G. Chandler. 1,735,660; Nov. 12.
- Propeller or the like. M. D. Thompson. 1,703,834; Feb. 26.
- Propeller, Reversible-blade. A. P. Wiegand. 1,719,953; July 9.
- Propeller, Screw. G. Thompson. 1,703,412; Feb. 26.
- Propeller shaft and method of making. A. Moorhouse. 1,734,268; Nov. 5.
- Propellers, Spring-cushioned drive for. O. Evinrude. 1,734,119; Nov. 5.
- Propelling and maneuvering system for vessels. C. M. Paxton. 1,702,222; Feb. 12.
- Propelling apparatus for ships. H. Tawara. 1,700,913; Feb. 5.
- Propelling coaster wagons and other vehicles. C. J. Ashby. 1,735,665; Nov. 12.
- Propelling device. B. Paschen. 1,704,443; Mar. 5.
- Propelling device for boats. A. Brun. 1,697,043; Jan. 1.
- Propelling means, Boat-. M. Marangoni. 1,701,381; Feb. 5.
- Propelling means, Boat-. M. W. Weir. 1,738,410; Dec. 3.
- Propelling means for air or water craft. W. D. Schaefer. 1,708,803; Apr. 9.
- Propelling means, Vessel-. S. E. Chapman. 1,705,807; Mar. 19.
- Propelling mechanism. J. A. Conterio. 1,699,687; Jan. 22.
- Propelling mechanism, Aircraft-. C. S. Hall. 1,740,088; Dec. 17.
- Propelling mechanism, Ship-. O. H. Wagner. 1,705,430; Mar. 12.
- Proportioning apparatus. G. B. Eggert. 1,726,812; Sept. 3.
- Proportioning apparatus. M. Madsen. 1,715,853; June 4.
- Propulsion device, Vessel. W. C. Smith. 1,720,452; July 9.
- Propulsion means for power shovels and the like. W. W. Sloane. 1,715,149; May 28.
- Propulsion means, Marine. C. M. Paxton. 1,698,822; Jan. 15.
- Propulsion of vehicles. L. P. Doyon. 1,731,845; Oct. 15.
- Propulsion of watercraft and aircraft. D. V. Hotchkiss. 1,741,238; Dec. 31.
- Propulsion, System of marine. T. C. Coykendall. 1,701,403; Feb. 5.
- Protecting apparatus for presses and the like. E. Guinot. 1,728,994; Sept. 24.
- Protecting device. D. Tobin. 1,740,210; Dec. 17.
- Protecting device for automobile fenders. F. L. Jordan. 1,704,048; Mar. 5.
- Protecting device for electrical cable connections. O. B. Guys. 1,708,292; Apr. 9.
- Protective device for motor bearings, Fusible. J. L. M. Zimmerman. 1,737,629; Dec. 3.
- Protecting fabric. R. A. Phair. 1,708,519; Apr. 9.
- Protecting iron and steel, Material for use in. W. H. Cole. 1,729,065; Sept. 24.
- Protecting meat during shipment. F. F. Hanlon. 1,732,680; Oct. 22.
- Protecting metal culverts. A. S. Cushman. 1,735,732; Nov. 12.
- Protecting petroleum tanks and tank farms against lightning and electrical sparks, System for. W. Dodd. 1,735,530; Nov. 12.
- Protecting rolls of paper, Device for. J. A. Taylor, H. A. Sheesley, and F. W. Mears. 1,716,249; June 4.
- Protecting the head, Method and device for. J. D. Small. 1,723,633; Aug. 6.
- Protecting vessels against aerial attacks, Apparatus for. H. Holden. 1,713,339; May 14.
- Protection against cold, Method and apparatus for. S. R. Mitchell. 1,727,481; Sept. 10.
- Protection for soot-blowing elements. H. J. Kerr. 1,732,306; Oct. 22.
- Protection means for soot-blowing elements. D. S. Jacobus. 1,719,934; July 9.
- Protection of films against fire. J. Lentini. 1,717,234; June 11.
- Protection of the surface of baths of easily-oxidizable metals such as magnesium. G. Michel. 1,720,236; July 9.
- Protection of the thrust bearing of steam turbines. A. Meyer. 1,697,399; Jan. 1.
- Protective apparatus. J. Biermanns. 1,701,353; Feb. 5.
- Protective apparatus. J. Biermanns. 1,714,940; May 28.
- Protective apparatus for distribution systems. H. P. Sleeper. 1,729,406; Sept. 24.
- Protective arrangement. F. T. Coldwell. 1,699,096; Jan. 15.
- Protective arrangement. R. E. Cordray. 1,718,531; June 25.
- Protective arrangement. E. Courtin and J. Bayer. 1,731,971; Oct. 15.
- Protective arrangement. L. F. Kennedy. 1,713,182; May 14.
- Protective arrangement. S. M. Lejeune and H. S. Petch. 1,723,870; Aug. 6.
- Protective arrangement. J. S. Lennox. 1,701,379; Feb. 5.
- Protective arrangement. S. Miki. 1,717,240; June 11.
- Protective arrangement. R. Pohl. 1,721,409; July 16.
- Protective arrangement. A. von Schaubert. 1,728,024; Sept. 10.
- Protective arrangement. A. von Schaubert. 1,731,955; Oct. 15.
- Protective coating. J. B. Thomas. 1,733,564; Oct. 29.
- Protective device. G. A. Burnham. 1,720,509; July 9.
- Protective device. R. W. Johnson. 1,725,866; Aug. 27.
- Protective device. C. W. Kuhn. 1,732,477; Oct. 22.
- Protective device. E. C. McKenzie-Martyn. 1,697,199; Jan. 1.
- Protective device. W. A. Sonen. 1,716,248; June 4.
- Protective device, Electrical. J. S. Parsons. 1,705,676; Mar. 19.
- Protective device for electric systems. E. C. Parham. 1,706,937; Mar. 26.
- Protective device for trolley-wire hangers. C. A. Cawood. 1,729,656; Oct. 1.
- Protective device for use in hair waving. H. Matters. 1,703,679; Feb. 26.
- Protective means for electric furnaces. A. N. Otis. 1,708,772; Apr. 9.



- Protective sheet for closet seats. J. H. A. Van Ling. 1,713,062; May 14.
- Protective system. P. Thomas. 1,715,684; June 4.
- Protective system, Electric. B. H. Leeson. 1,698,337; Jan. 8.
- Protective system for electrical apparatus. C. Le G. Fortescue. 1,736,435; Nov. 19.
- Protective system for grade crossings. D. C. Davis. 1,730,194; Oct. 1.
- Protector. P. J. Shrum. 1,715,792; June 4.
- Protector and cover for chair seats, Hose. L. McGinnis and E. I. Pearce. 1,729,352; Sept. 24.
- Protector and driver for bobbins and the like, Base. J. Lock. 1,740,309; Dec. 17.
- Protector, Breast. D. J. Kennedy. 1,721,739; July 23.
- Protector, Chafing. L. H. Darrer. 1,731,886; Oct. 15.
- Protector, Check. G. W. Cooke. 1,708,566; Apr. 9.
- Protector, Clip and scalp. J. P. Fischer. 1,740,292; Dec. 17.
- Protector, Cotton-sack. T. W. Mitchell. 1,707,869; Apr. 2.
- Protector, Dress. A. L. Deming. 1,734,157; Nov. 5.
- Protector, Dress. J. Nutt. 1,733,555; Oct. 29.
- Protector, Electrically-operated-apparatus. R. C. Keddy. 1,697,979; Jan. 8.
- Protector for automobiles. E. A. Bansbach. 1,734,758; Nov. 5.
- Protector for bobbins and assembling, Base. J. Lock. 1,740,253; Dec. 17.
- Protector for book covers. W. G. Ware. 1,708,813; Apr. 9.
- Protector for confections, etc. C. H. Flint. 1,712,451; May 7.
- Protector for hairdressing use and the like. N. Merlino. 1,741,327; Dec. 31.
- Protector for radio sets. L. Ludwig. 1,736,204; Nov. 19.
- Protector for windows and doors, Glass. M. E. Sparrow. 1,731,114; Oct. 8.
- Protector, Garment. N. I. Fleischer. 1,723,647; Aug. 6.
- Protector, Groin. W. Richardson. 1,720,439; July 9.
- Protector, Hand. C. H. Ortmann. 1,731,982; Oct. 15.
- Protector, Heel. E. E. Smart. 1,701,018; Feb. 5.
- Protector, Hood-hinge. C. R. Cammer. 1,732,964; Oct. 22.
- Protector, Knot. N. Dessauer. 1,727,754; Sept. 10.
- Protector, Shipping dress. E. P. Walker. 1,725,116; Aug. 20.
- Protector, Shoe. G. Otallah. 1,727,728; Sept. 10.
- Protector, Stocking. K. Condon. 1,727,586; Sept. 10.
- Protector switch. R. B. Cummins. 1,740,225; Dec. 17.
- Protector, Waterproof stocking. R. Vrabek. 1,708,810; Apr. 9.
- Protractor. W. Muench. 1,699,619; Jan. 22.
- Protractor. E. Tiedemann. 1,732,546; Oct. 22.
- Prune-pitting process. J. E. Sturges. 1,725,224; Aug. 20.
- Pruning shears. F. H. Blodgett. 1,716,257; June 4.
- Pruning shears. J. B. Daniel. 1,704,313; Mar. 5.
- Pruning shears. R. M. Marler. 1,716,180; June 4.
- Psychomotor-testing apparatus. G. H. Reid. 1,729,227; Sept. 24.
- Public-address system. L. E. Melhuish. 1,717,055; June 11.
- Puddling iron. J. B. Schlossberg. 1,730,044; Oct. 1.
- Puffing. A. P. Anderson. 1,725,171; Aug. 20.
- Pug mills, Clay-treating attachment for. J. Gretencort. 1,740,504; Dec. 24.
- Pull box, Gas-shut-off. H. Sieben. 1,716,536; June 11.
- Pull for a slide fastener. R. H. Nicholson. Des. 79,900-6; Nov. 12.
- Pull rod. R. A. Peglar. 1,725,672; Aug. 20.
- Puller: See—
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| Battery-terminal puller. | Gear puller.       |
| Bearing puller.          | Nail puller.       |
| Boiler-tube puller.      | Spool puller.      |
| Bushing puller.          | Staple puller.     |
| Car puller.              | Stump puller.      |
| Clamp puller.            | Terminal puller.   |
| Cotter-key puller.       | Valve-seat puller. |
| Fuse puller.             | Wheel puller.      |
| Gear and wheel puller.   |                    |
- Pulley. R. H. Bowen. 1,721,066; July 16.
- Pulley. R. G. Nelson. 1,700,416; Jan. 29.
- Pulley. E. S. Stadelman. 1,728,704; Sept. 17.
- Pulley. M. J. Tamblin. 1,724,809; Aug. 13.
- Pulley. E. W. Test and W. H. Mussey. 1,722,599; July 30.
- Pulley. H. A. Toulmin, jr. 1,736,024; Nov. 19.
- Pulley. B. Wilson. 1,722,875; July 30.
- Pulley and cord for sashes, Concealed. A. O. Bishop. 1,707,044; Mar. 26.
- Pulley and making the same. E. W. North. 1,710,710; Apr. 30.
- Pulley, Automatic cut-out. H. L. Johnston. 1,712,768; May 14.
- Pulley block. G. A. Dalton. 1,732,084; Oct. 15.
- Pulley block. W. Fisher. 1,740,168; Dec. 17.
- Pulley block. H. H. Hambleton. 1,730,272; Oct. 1.
- Pulley block. R. C. Macdonald. 1,730,433; Oct. 8.
- Pulley bracket. H. W. Pratt. Des. 78,785; June 18.
- Pulley construction. W. D. Hamerstadt. 1,708,269; Apr. 9.
- Pulley coverings, Making. E. F. Gingras. 1,697,236; Jan. 1.
- Pulley drive particularly for ring spinning and doubling frames, Idler. J. Hildebrandt. 1,739,550; Dec. 17.
- Pulley drive, particularly for ring-spinning machines, Stepped. J. Hildebrandt. 1,731,246; Oct. 15.
- Pulley, Speed-control. J. Chudner. 1,736,578; Nov. 19.
- Pulleys, Attaching loose. D. B. Ashman. 1,712,064; May 7.
- Pulling-over machine. C. M. Bagshaw. 1,711,439; Apr. 30.
- Pulling-over machine. B. Jorgensen. 1,720,219; July 9.
- Pulling-over machine. J. T. Lancaster. 1,697,982; Jan. 8.
- Pulling-over mechanism. J. T. Lancaster. 1,697,983; Jan. 8.
- Pulling-over mechanism. C. F. Pym. 1,699,673; Jan. 22.
- Pull-over and making the same. W. J. De Witt. 1,730,614; Feb. 26.
- Pulp and fiber product and making same. R. A. Marr. 1,717,794; June 18.
- Pulp, Apparatus for separating the constituents of. T. G. Martyn. 1,709,676; Apr. 16.
- Pulp board and making the same, Laminated. R. L. Loomis. 1,737,284; Nov. 26.
- Pulp digesters, Operation of. E. Morterud. 1,703,745; Feb. 26.
- Pulp-feed regulator. G. E. Mayo. 1,726,750; Sept. 3.
- Pulp-forming machine. C. J. Keenan, E. P. Kennedy, and G. H. Kirsch. Re17,303; May 28.
- Pulp-forming machine. E. P. Kennedy. 1,697,244; Jan. 1.
- Pulp in paper making, Preparing. F. Kerr and M. Zimmerman. 1,709,133; Apr. 16.
- Pulp, Making. R. A. Marr. 1,717,796; June 18.
- Pulp, Making. R. A. Marr. 1,717,793; June 18.
- Pulp-molding machine. M. P. Chaplin. 1,709,338; Apr. 16.
- Pulp-molding machine and forming molded pulp articles. M. P. Chaplin. 1,707,430; Apr. 2.
- Pulp or the like, Process and apparatus for reducing. L. T. Murphy. 1,726,756; Sept. 3.
- Pulp-preparing apparatus. J. T. Murphy. 1,716,898; June 11.
- Pulp, Process and apparatus for reducing. L. T. Murphy. 1,702,230; Feb. 12.
- Pulp, Process and machine for thickening. A. J. and R. J. Haug. 1,717,604; June 18.
- Pulp, Producing. R. A. Marr. 1,717,797; June 18.
- Pulp product. R. A. Marr. 1,717,799; June 18.
- Pulp, Production of. L. Bradley and E. P. McKeefe. 1,722,993; Aug. 6.
- Pulp, Refining. M. O. Schur. 1,730,386; Oct. 8.
- Pulp screen. H. D. Wells. 1,722,874; July 30.
- Pulp, Sorting. T. G. Martyn. 1,724,100; Aug. 13.
- Pulp-suction die. J. F. Low. 1,714,916; May 28.
- Pulping machine. H. N. Weir. 1,724,441; Aug. 13.
- Pulping process, Chemical. B. Johnson. 1,737,590; Dec. 3.
- Pulping wood. F. G. Rawling. 1,705,827; Mar. 19.
- Pulposus material, Mechanism for working. H. W. Jespersen. 1,717,783; June 18.
- Pulsating apparatus for milking machines. R. Wallace, jr. 1,709,758; Apr. 16.
- Pulsator for suction milking machines. C. E. Ellison. 1,710,089; Apr. 23.
- Pulverizer. G. E. Bear. 1,729,471; Sept. 24.
- Pulverizer. J. J. Denitson, jr. 1,714,852; May 28.
- Pulverizer. P. S. Knittel. 1,698,758; Jan. 15.
- Pulverizer. J. Molz. 1,714,132; May 21.
- Pulverizer. A. F. Thompson. 1,715,724; June 4.
- Pulverizer. H. Waring. 1,735,985; Nov. 19.
- Pulverizer and mixer. O. E. Anderson. 1,725,743; Aug. 27.
- Pulverizer, Centrifugal. O. A. Kreutzberg. 1,737,854; Dec. 3.
- Pulverizer, Centrifugal air-float. O. Olston. 1,713,297; May 14.
- Pulverizer, Impact. W. R. Wood. 1,734,661; Nov. 5.
- Pulverizer, Power take-off. A. A. Kietzke. 1,718,564; June 25.
- Pulverizer, Unit. A. A. Holbeck. 1,724,876; Aug. 13.
- Pulverizing and drying solids, Process and apparatus for. S. Hiller. 1,735,396; Nov. 12.
- Pulverizing apparatus. O. Craig. 1,714,080; May 21.
- Pulverizing apparatus. O. Craig. 1,739,213; Dec. 10.
- Pulverizing apparatus. F. H. Daniels. 1,711,044; Apr. 30.
- Pulverizing apparatus. F. H. Daniels. 1,724,072; Aug. 13.
- Pulverizing apparatus, Dual-feed. F. H. Daniels. 1,731,649; Oct. 15.
- Pulverizing, Apparatus for. W. R. Wood. 1,697,704; Jan. 1.
- Pulverizing apparatus, Single-zone. D. K. Beach. 1,724,895; Aug. 20.
- Pulverizing apparatus, Two-zone. F. H. Daniels. 1,719,831; July 9.
- Pulverizing attachment for power plows. T. E. Hagglund. 1,733,153; Oct. 29.
- Pulverizing coal, Apparatus for. H. M. Nobis. 1,728,976; Sept. 24.
- Pulverizing device and method. H. G. Lykken. 1,699,849; Jan. 22.
- Pulverizing machine. P. S. Knittel. 1,698,268; Jan. 8.
- Pulverizing machine. P. S. Knittel. 1,721,821; July 23.
- Pulverizing machine. W. K. Liggett. Re17,334; June 25.
- Pulverizing machine. M. Wagner. 1,731,956; Oct. 15.
- Pulverizing machine, Coal. R. Jackson. 1,729,672; Oct. 1.
- Pulverizing machine, Soil. M. P. Ohlsen. 1,703,539; Feb. 26.
- Pulverizing machines, Shear surface ring for. R. J. Williams and C. A. Wettengel. 1,733,637; Oct. 29.



- Pulverizing material, Apparatus for. W. J. A. London. 1,737,800; Dec. 3.
- Pulverizing materials, Apparatus for. W. T. Doyle. 1,715,123; May 28.
- Pulverizing materials, Apparatus for. W. T. Doyle. 1,723,726; Aug. 6.
- Pulverizing mill. J. Crites. 1,702,248; Feb. 19.
- Pulverizing mill. S. Duvall, Chicago, Ill. 1,713,957; May 21.
- Pulverizing mill. E. C. Loesche. 1,733,417; Oct. 29.
- Pulverizing mill. J. Mead jr. 1,704,757; Mar. 12.
- Pulverizing mill. R. S. Riley. 1,711,063; Apr. 30.
- Pulverizing process. E. Podszus. 1,703,634; Feb. 26.
- Pump. L. D. Baird and S. B. Durbin. 1,714,486; May 28.
- Pump. T. Bellocq. 1,730,337; Oct. 1.
- Pump. C. H. Braselton and F. B. MacLaren. 1,739,944; Dec. 17.
- Pump. W. H. D. Brouse. 1,725,390; Aug. 20.
- Pump. S. Burrows. 1,713,417; May 14.
- Pump. G. D. Collins. 1,735,893; Nov. 19.
- Pump. J. Cornet y Oliveras. 1,741,070; Dec. 24.
- Pump. P. W. Cowie. 1,725,568; Aug. 20.
- Pump. S. L. Davis. 1,737,534; Nov. 28.
- Pump. A. T. Dudley. 1,741,102; Dec. 24.
- Pump. C. H. Edwards. 1,713,501; May 14.
- Pump. C. H. Edwards and R. L. Transtrom. 1,715,540; June 4.
- Pump. C. P. Eisenhower. 1,713,219; May 14.
- Pump. C. P. Eisenhower. 1,731,770; Oct. 15.
- Pump. J. J. Fitzpatrick. 1,729,870; Oct. 1.
- Pump. A. F. Froussard. 1,711,312; Apr. 30.
- Pump. J. A. Goodner. 1,717,969; June 18.
- Pump. E. Gray. 1,720,672; July 16.
- Pump. J. W. Gurley. 1,722,289; July 30.
- Pump. H. H. Haight. 1,739,139; Dec. 10.
- Pump. J. H. Herman. 1,703,423; Feb. 26.
- Pump. H. John. 1,732,866; Oct. 22.
- Pump. M. Kraut. 1,717,694; June 18.
- Pump. E. P. Larsh. 1,723,360; Aug. 6.
- Pump. G. Lateur. 1,728,620; Sept. 17.
- Pump. M. C. Lilly. 1,721,127; July 16.
- Pump. C. W. Lipe. 1,721,825; July 23.
- Pump. C. B. Martin. 1,697,430; Jan. 1.
- Pump. R. C. Mason. 1,741,244; Dec. 31.
- Pump. F. P. McCauley. 1,724,766; Aug. 13.
- Pump. C. A. Murdoch. 1,740,475; Dec. 24.
- Pump. J. O. Nash. 1,732,855; Oct. 22.
- Pump. G. F. Nelson. 1,701,792; Feb. 12.
- Pump. W. Nelson. 1,738,309; Dec. 3.
- Pump. B. J. Pepper. 1,716,147; June 4.
- Pump. E. Pohl. 1,703,361; Feb. 26.
- Pump. F. Rahm. 1,728,628; Sept. 17.
- Pump. A. Randolph. 1,734,779; Nov. 5.
- Pump. J. C. Riggs. 1,715,212; May 28.
- Pump. C. A. Roberts. 1,740,523; Dec. 24.
- Pump. L. E. Rush. 1,701,309; Feb. 5.
- Pump. H. F. Schmidt. 1,730,748; Oct. 8.
- Pump. E. M. Scoville. 1,738,734; Dec. 10.
- Pump. W. V. Seifert. 1,739,995; Dec. 10.
- Pump. J. M. Shimer. 1,712,969; May 14.
- Pump. J. M. Shimer. 1,714,456; May 21.
- Pump. K. D. Smith. 1,726,633; Sept. 3.
- Pump. F. Tanner. 1,708,340; Apr. 9.
- Pump. J. W. Tatter. 1,741,591; Dec. 31.
- Pump. A. S. Telfer. 1,737,870; Dec. 3.
- Pump. A. M. Thomson. 1,706,829; Mar. 26.
- Pump. C. A. Waitz. 1,704,776; Mar. 12.
- Pump. I. A. Weaver. 1,717,425; June 18.
- Pump. A. S. Weldy. 1,714,148; May 21.
- Pump. H. J. Wepplo. 1,711,914; May 7.
- Pump. A. P. M. Wilking. 1,714,706; May 28.
- Pump. Air. F. Quandt, jr. 1,697,734; Jan. 1.
- Pump. Air. P. Willmann. 1,720,159; July 9.
- Pump. Air-lift. H. B. Halvorsen. 1,717,448; June 18.
- Pump. Air-lift. R. H. Tucker. 1,714,330; May 21.
- Pump. Airline. S. L. Brown. 1,710,402; Apr. 23.
- Pump and compressor. P. Hamlin. 1,716,127; June 4.
- Pump and distributor drive, Oil. C. L. McCuen. 1,731,823; Oct. 15.
- Pump and distributor, Fuel. B. M. Aslakson. 1,739,747; Dec. 17.
- Pump and engine therefor, Air. H. C. Harteau. 1,703,003; Feb. 19.
- Pump and gland, Overhung centrifugal. A. Hollander. 1,707,613; Apr. 2.
- Pump and governor, Fuel. F. H. Stroud. 1,726,248; Aug. 27.
- Pump and like device for controlling the rate of delivery of fluids. E. Lunge. 1,701,239; Feb. 5.
- Pump and like device for controlling the rate of delivery of fluids. E. Lunge. 1,723,874-5; Aug. 6.
- Pump and motor. M. A. Seaholm. 1,712,935-6; May 14.
- Pump and motor, Hydraulic. H. S. Hele-shaw and T. E. Beacham. 1,709,194; Apr. 16.
- Pump and receiver, Condensation. B. Skidmore, jr. 1,714,734; May 28.
- Pump and the like, Rotary. A. L. Fullerton. 1,702,046; Feb. 12.
- Pump attachment for automobiles, High-speed fire-. D. E. Yates. 1,712,190; May 7.
- Pump, Automatic fluid-pressure. P. Subkow. 1,740,793; Dec. 24.
- Pump, Automatic tire. A. G. E. Nordquist. 1,728,977; Sept. 24.
- Pump available for viscose, Rotatable piston. L. Jacot-Descombes. 1,736,497; Nov. 19.
- Pump, Balanced. A. M. Cox. 1,703,336; Feb. 26.
- Pump barrel. R. H. Lemmon. 1,707,667; Apr. 2.
- Pump, Breast. R. Keith. 1,719,982; July 9.
- Pump casing, Gasoline. R. L. Schwartz and W. P. Martin. Des. 79,992; Nov. 26.
- Pump, Centrifugal. F. E. Hause and J. Zollinger. 1,727,703; Sept. 10.
- Pump, Centrifugal. O. Jacobsen. 1,707,664; Apr. 2.
- Pump, Centrifugal. M. E. Layne. 1,709,478; Apr. 16.
- Pump, Centrifugal. J. R. Sensibar. 1,737,340; Nov. 26.
- Pump, Centrifugal. W. Spillmann. 1,734,000; Oct. 29.
- Pump, Centrifugal. H. Wheeler. 1,718,396; June 25.
- Pump, Centrifugal. H. E. Wright. 1,697,487; Jan. 1.
- Pump, Coin-controlled gasoline. F. P. Stallcup. 1,736,806; Nov. 26.
- Pump, Combined irrigation and drainage. P. M. Hoenshel. 1,737,372; Nov. 26.
- Pump, Compressed-air well. R. C. Bennett. 1,730,051; Oct. 1.
- Pump, Compressor or vacuum air. F. Lawaczeck. 1,712,625; May 14.
- Pump connection. J. R. Sensibar. 1,712,312; May 7.
- Pump-connecting device, Tire. F. I. Jaden. 1,702,970; Feb. 19.
- Pump construction. R. K. Jack. 1,705,016; Mar. 12.
- Pump construction, Oil-. C. L. Rayfield. 1,727,081; Sept. 3.
- Pump construction, Vapor vacuum. E. Kobel. 1,734,135; Nov. 5.
- Pump-control device. C. A. Schellens. 1,725,722; Aug. 20.
- Pump-counterbalancing means. O. M. Sholberg. 1,697,786; Jan. 1.
- Pump, Deep-well. R. B. Bostic. 1,711,582; May 7.
- Pump, Deep-well. R. L. Dennison. 1,711,086; Apr. 30.
- Pump, Deep-well. T. S. Harris. 1,723,162; Aug. 6.
- Pump, Deep-well. O. W. Johnson. 1,723,041; Aug. 6.
- Pump, Deep-well. R. B. Welsh. 1,699,036; Jan. 15.
- Pump, Deep-well. S. White. 1,711,764; May 7.
- Pump, Deep-well jet. J. McAfee. 1,713,848; May 21.
- Pump, Diaphragm. A. Lambin. 1,719,060; July 2.
- Pump, Diaphragm. R. L. Munday. 1,711,803; May 7.
- Pump, Dispensing. W. C. Armistead. 1,705,105; Mar. 12.
- Pump, Dispensing. W. C. Armistead. 1,709,966; Apr. 23.
- Pump, Dispensing. P. B. Renfrew. 1,731,684; Oct. 15.
- Pump, Dispensing. P. B. Renfrew and R. W. Bond. Des. 79,050; July 23.
- Pump, Double-acting hydraulically-controlled. P. E. J. Mengin. 1,731,862; Oct. 15.
- Pump, Double-action. D. H. Mosteller. 1,730,041; Oct. 1.
- Pump, Drainage. J. Markman. 1,734,440; Nov. 5.
- Pump drive, Fuel. H. S. Golden. 1,734,009; Oct. 29.
- Pump, Duplex rotary. J. F. Jaworowski. 1,698,815; Jan. 15.
- Pump dynamometer. J. H. Howard and H. N. Marsh. 1,739,675; Dec. 17.
- Pump, Ejector. H. J. Kroscoff. 1,737,887; Dec. 3.
- Pump, Electrically-driven oil-well. C. J. Coberly. 1,740,003; Dec. 17.
- Pump, Electrically-operated. A. N. Irby. 1,730,075; Oct. 1.
- Pump, Electrically-operated fuel. W. C. Carter. 1,713,073; May 14.
- Pump, Electromagnetically-operated. A. C. Heiny. 1,702,867; Feb. 19.
- Pump, Engine fuel. E. von Salis. 1,726,937; Sept. 3.
- Pump, Fluid. B. Greenfield. 1,727,168; Sept. 3.
- Pump, Fluid. H. W. Landenberger and E. Cannon. 1,738,375; Dec. 3.
- Pump, Fluid-pressure. F. E. Gilmore. 1,701,449; Feb. 5.
- Pump, Fluid-pressure. J. W. Gurley. 1,697,181; Jan. 1.
- Pump, Fluid-pressure. J. W. Gurley. 1,731,774; Oct. 15.
- Pump for corrosive liquids. G. P. Fuller. 1,698,495; Jan. 8.
- Pump for corrosive liquids, Piston. A. Ferraris. 1,697,682; Jan. 1.
- Pump for deep wells, Submerged lifting. H. Sauveur. 1,714,440; May 21.
- Pump for gas engines, Fuel. J. E. Canoose. 1,710,044; Apr. 23.
- Pump for handling solids in suspension, Rotary. P. I. Nagle. 1,697,202; Jan. 1.
- Pump for internal-combustion engines, Fuel. P. L'Orange. 1,740,360; Dec. 17.
- Pump for massage apparatus. A. Zünd-Burguet. 1,714,898; May 28.
- Pump for motor-vehicle air brakes. R. V. White and P. D. Wynn. 1,707,746; Apr. 2.
- Pump for refrigerants. T. E. Murray. 1,702,056; Feb. 12.
- Pump for refrigerants and the like. T. E. Murray. 1,719,825; July 9.
- Pump for refrigerating apparatus. T. J. Little, jr. 1,717,847; June 18.
- Pump for refrigeration systems. J. G. King. 1,736,973-4; Nov. 26.
- Pump for solid injection otto-cycle engines, Fuel. E. R. Hewitt. 1,726,150; Aug. 27.
- Pump for the delivery of liquids in predetermined amounts. T. Di Tella. 1,734,421; Nov. 5.
- Pump for water-cooled engines. E. D. Wittmann. 1,718,675; June 25.
- Pump, Force. A. G. Norton. 1,706,315; Mar. 19.
- Pump, Fuel. A. C. Attendu. 1,736,242; Nov. 19.
- Pump, Fuel. H. Caminez. 1,734,155; Nov. 5.



- Pump, Fuel. B. Greenfield. 1,740,587; Dec. 24.  
 Pump, Fuel. H. Junkers. 1,706,785; Mar. 26.  
 Pump, Fuel. C. H. Knudsen. 1,726,303; Aug. 27.  
 Pump, Fuel. J. Mahler. 1,737,602; Dec. 3.  
 Pump, Fuel. C. W. McKinley. 1,738,786; Dec. 10.  
 Pump, Gasoline. F. C. Meserye. 1,730,330; Oct. 1.  
 Pump, Gasoline-dispensing. J. W. Thurston. 1,715,257; May 28.  
 Pump, Gear. A. E. Grant. 1,704,704; Mar. 12.  
 Pump, Grease. C. F. Goddard. 1,698,159; Jan. 8.  
 Pump, Grease. W. B. Mathewson. 1,698,023; Jan. 8.  
 Pump, Grease. W. S. Townsend and C. Spaeth. 1,715,522; June 4.  
 Pump, Grease bucket. H. M. Boe. 1,713,517; May 21.  
 Pump head for vertical deep-well pump. H. H. Van Winkle. 1,718,990; July 2.  
 Pump head, Vertical-turbine. C. E. Johnson. 1,704,362; Mar. 5.  
 Pump, High-pressure. J. C. Hull. 1,719,373; July 2.  
 Pump, High-pressure. P. M. Rudesyle. 1,735,299; Nov. 12.  
 Pump, Hot-oil. T. D. Tift. 1,701,166; Feb. 5.  
 Pump, Hot-oil. T. D. Tift. 1,701,198; Feb. 5.  
 Pump, Hydraulic-jack-operating. J. R. Marcus. 1,706,456; Mar. 26.  
 Pump, Hydroturbine. I. C. Jennings. 1,718,294; June 25.  
 Pump, Inertia-operated. C. H. Braselton and F. B. MacLaren. 1,703,983; Mar. 5.  
 Pump, Inertia-operating. C. H. Braselton and F. B. MacLaren. 1,724,177; Aug. 13.  
 Pump, Injector. F. Newnham and H. C. Turnham. 1,729,794; Oct. 1.  
 Pump, Internal-combustion. H. Föttinger. 1,727,280; Sept. 3.  
 Pump, Irrigation. H. Earl. 1,713,427; May 14.  
 Pump jack. C. H. Baldwin. 1,713,461; May 14.  
 Pump jack. A. Bohnenblust. 1,708,213; Apr. 9.  
 Pump jack. E. Decker. 1,721,005; July 16.  
 Pump jack. A. W. Ferguson. 1,729,664; Oct. 1.  
 Pump jack. C. L. Kenyon. 1,732,475; Oct. 22.  
 Pump jack. J. T. Phipps. 1,711,806; May 7.  
 Pump jack. L. S. Stripling. 1,707,583; Apr. 2.  
 Pump jack, Double-header. G. B. Burch. 1,742,055; Dec. 31.  
 Pump-jack head, Quick-change. A. W. R. Schultz. 1,705,839; Mar. 19.  
 Pump jack, Oil-well. R. A. Pickett. 1,707,137; Mar. 26.  
 Pump, Liner. S. B. Sargent, jr. 1,702,619; Feb. 19.  
 Pump liner. I. Thomas and M. L. Kinney. 1,730,905; Oct. 8.  
 Pump, Liquid. E. J. Leach. 1,739,318; Dec. 10.  
 Pump, Liquid-fuel. H. Junkers. 1,699,194; Jan. 15.  
 Pump, Lubricant and fuel. A. Frisch. 1,734,721; Nov. 5.  
 Pump, Lubricating. H. Etzelt. 1,723,544; Aug. 6.  
 Pump machine, Rotary. W. J. Stern. 1,720,577; July 9.  
 Pump mechanism. S. Wiltse. 1,711,297-8; Apr. 30.  
 Pump mechanism, Hydraulic long-stroke. H. M. Staggs. 1,714,523; May 28.  
 Pump mechanism, Rotary. M. E. Layne. 1,728,685; Sept. 17.  
 Pump, Metal vapor-jet. J. M. van der Poel. 1,712,595; May 14.  
 Pump, motor, brake, transmission gear, and the like, Hydraulic. R. F. Carey. 1,710,567; Apr. 23.  
 Pump, Motor-driven oil-well. B. F. Schmidt. 1,736,094; Nov. 19.  
 Pump, Mud. W. V. Seifert. 1,739,096; Dec. 10.  
 Pump, Multicylinder. W. L. Coursen. 1,697,852-4; Jan. 8.  
 Pump, Multifeed. E. M. Scoville. 1,722,542; July 30.  
 Pump, Multifeed. E. M. Scoville. 1,738,735; Dec. 10.  
 Pump, Multiple-tube inserted. K. P. Neilsen and D. E. Byers. 1,717,619; June 18.  
 Pump, Multistage. J. A. Zublin. 1,697,299; Jan. 1.  
 Pump, Nonreversible. H. T. Wheeler. 1,739,195; Dec. 10.  
 Pump of internal-combustion engines, Fuel. H. R. Ricardo. 1,701,389; Feb. 5.  
 Pump of wafer biscuit and similar machines. W. E. Prescott. 1,736,863; Nov. 26.  
 Pump, Oil. A. E. Davenport. 1,713,424; May 14.  
 Pump, Oil. W. H. Opitz. 1,718,759; June 25.  
 Pump, Oil-display. A. E. Davenport. 1,730,127; Oct. 1.  
 Pump, Oil-engine-driven centrifugal and similar. P. P. Bourne. 1,704,495; Mar. 5.  
 Pump, Oil-well. L. J. Black. 1,723,992-3; Aug. 13.  
 Pump, Oil-well. W. J. Blankenship. 1,741,913; Dec. 31.  
 Pump, Oil-well. F. McKissick. 1,733,896; Oct. 29.  
 Pump, Oil-well. J. C. Vroman. 1,725,496; Aug. 20.  
 Pump-operating device, Air-. A. Tzika. 1,721,360; July 16.  
 Pump operating means, Compound. L. Gentzen. 1,702,649; Feb. 19.  
 Pump-operating mechanism, Long-stroke. R. E. Leonard. 1,705,930; Mar. 19.  
 Pump or blower, Rotary. E. J. Wendell. 1,704,642; Mar. 5.  
 Pump or compressor, Rotary. J. W. Cuthbert. 1,718,535; June 25.  
 Pump or engine, Gear. E. Mocigemba. 1,738,602; Dec. 10.  
 Pump or hydraulic power-transmission machine. R. Lusso. 1,697,924; Jan. 8.  
 Pump or motor. H. Thoma and H. Kosel. 1,736,754; Nov. 19.  
 Pump or motor, Rotary fluid. T. J. Pagel. 1,737,942; Dec. 3.  
 Pump or motor, Rotary. J. D. E. Washington. 1,736,105; Nov. 19.  
 Pump or sprayer for horticultural purposes. W. Grimley. 1,705,401; Mar. 12.  
 Pump or the like, Rotary. A. W. Gardes. 1,704,938; Mar. 12.  
 Pump or the like, Rotary piston. P. A. Guinard. 1,724,084; Aug. 13.  
 Pump plunger. E. Gray. 1,700,568; Jan. 29.  
 Pump, plunger. O. D. McClure. 1,741,643; Dec. 31.  
 Pump plunger. F. W. Moyer and F. J. Reninger. 1,731,147; Oct. 8.  
 Pump plunger, Flexible multistage deep-well. L. C. Black. 1,721,245; July 16.  
 Pump plunger valve and stem. H. S. Berkey. 1,738,167; Dec. 3.  
 Pump, Pneumatic lift. P. K. Wood. 1,728,193; Sept. 17.  
 Pump, Pneumatic-tire. G. L. Sharp. 1,737,062; Nov. 26.  
 Pump, Portable power-driven. W. F. Traudt. 1,712,012; May 7.  
 Pump, Positive-measure visible. W. M. Harks. 1,715,833; June 4.  
 Pump, Power-driven slush. J. A. Young. 1,732,424; Oct. 22.  
 Pump, Pulsating. E. J. Rose. 1,722,595; July 30.  
 Pump, Reciprocating. A. F. Ruthven. 1,730,297; Oct. 1.  
 Pump-rod attachment. W. C. Smith. 1,716,247; June 4.  
 Pump-rod guide and swab for well tubes. T. F. Davis. 1,728,669; Sept. 17.  
 Pump-rod suspension device. E. E. Stevenson. 1,703,214; Feb. 26.  
 Pump, Rotary. L. Antonelli. 1,728,321; Sept. 17.  
 Pump, Rotary. L. P. Barlow. 1,738,345; Dec. 3.  
 Pump, Rotary. A. Bernard. 1,739,661; Dec. 17.  
 Pump, Rotary. W. B. Campbell. 1,703,294; Feb. 26.  
 Pump, Rotary. L. Dinesen. 1,724,008; Aug. 13.  
 Pump, Rotary. L. Dinesen. 1,729,764; Oct. 1.  
 Pump, Rotary. L. L. Edwards. 1,702,338; Feb. 19.  
 Pump, Rotary. G. C. Ege. 1,701,103; Feb. 5.  
 Pump, Rotary. A. V. Jensen. 1,709,580; Apr. 16.  
 Pump, Rotary. A. Mathis. 1,698,235; Jan. 8.  
 Pump, Rotary. A. E. Paige. 1,703,204; Feb. 26.  
 Pump, Rotary. B. E. Parks. 1,736,666; Nov. 19.  
 Pump, Rotary. T. P. Rochford. 1,716,901; June 11.  
 Pump, Rotary. E. J. Wendell. 1,720,458; July 9.  
 Pump, Rotary gear. J. Scheminger, jr. 1,719,025; July 2.  
 Pump, Sand-tester. G. F. Le Bus. 1,710,581; Apr. 23.  
 Pump, Screw. H. Güttinger, jr. 1,723,157; Aug. 6.  
 Pump, Self-adjusting liner. S. B. Sargent. 1,737,270; Nov. 26.  
 Pump structure. F. W. Johnson. 1,739,838; Dec. 17.  
 Pump structure. A. Winton. 1,724,156; Aug. 13.  
 Pump structures, Jarring device for. R. W. Banks. 1,739,204; Dec. 10.  
 Pump, Sump. R. H. Carson. 1,721,692; July 23.  
 Pump, Surface-water. H. Wilson. 1,724,157; Aug. 13.  
 Pump, Syrup-dispensing. B. H. Alvey. 1,723,909; Aug. 6.  
 Pump, Turbine. C. E. Johnson. 1,714,484; May 21.  
 Pump unit. C. A. Schellens. 1,723,661; Aug. 6.  
 Pump, Vacuum. F. L. Antisell. 1,726,136; Aug. 27.  
 Pump, Vacuum. E. Bandoly. 1,719,747; July 2.  
 Pump, Vacuum and boiler-feed. B. Skidmore, jr. 1,714,735; May 28.  
 Pump, Vacuum condensation. A. C. Durdin, jr. 1,721,590; July 23.  
 Pump, Valveless rotary. E. J. Scott. 1,734,600; Nov. 5.  
 Pump, Variable capacity. H. E. Balsiger. 1,697,041; Jan. 1.  
 Pump, Variable-delivery oil. E. C. Zisterer. 1,701,485; Feb. 5.  
 Pump, Variable displacement. H. Ernst. 1,719,693; July 2.  
 Pump, Vibration-operated. C. H. Braselton and F. B. MacLaren. 1,716,759; June 11.  
 Pump, Vibration-operated. C. H. Braselton and F. B. MacLaren. 1,735,449; Nov. 12.  
 Pump, Water-ring. F. Neumann. 1,711,902; May 7.  
 Pump, Wearless geared. S. Morita. 1,712,157; May 7.  
 Pump, Well. T. C. Bannon. 1,738,136; Dec. 3.  
 Pump, Well. R. Deming. 1,723,682; Aug. 6.  
 Pump, Well. W. T. Smith. 1,716,709; June 11.  
 Pump, Well. K. Warmuth. 1,699,726; Jan. 22.  
 Pump, Well-casing. F. Davis. 1,711,045; Apr. 30.  
 Pumping and compressor mechanism, Portable. J. Oliphant. 1,718,178; June 18.  
 Pumping and metering apparatus. T. A. Banning, jr. 1,715,735; June 4.  
 Pumping and metering apparatus. T. A. Banning, jr. 1,722,653; July 30.  
 Pumping apparatus. F. E. Carlberg. 1,707,707; Apr. 2.  
 Pumping apparatus. A. C. Durdin, jr. 1,698,692-3; Jan. 8.  
 Pumping apparatus. D. J. Eastham. 1,728,959; Sept. 24.  
 Pumping apparatus. G. C. Engstrand. 1,712,694-5; May 14.  
 Pumping apparatus. E. A. Watts. 1,735,025; Nov. 12.  
 Pumping apparatus, Centrifugal. I. C. Jennings. 1,700,678; Jan. 29.  
 Pumping apparatus, Oil-. G. C. Engstrand. 1,737,080; Nov. 26.  
 Pumping apparatus, Oil-. B. Olsson. 1,736,620; Nov. 19.  
 Pumping apparatus, Pneumatic. G. B. Small. 1,724,854-8; Aug. 13.  
 Pumping apparatus, Oil-fraction. A. Hollander. 1,714,784; May 28.



- Pumping apparatus, Self-priming. W. F. Brandt. 1,716,105; June 4.
- Pumping apparatus, Valveless lubricating-oil. L. Friedmann. 1,722,136; July 23.
- Pumping apparatus, Well. J. R. Robb. 1,712,049; May 7.
- Pumping device. W. S. Black. 1,707,751; Apr. 2.
- Pumping-gear unit, Multiple. L. F. Burnham and P. W. Jones. 1,731,885; Oct. 15.
- Pumping jack. E. E. Stevenson. 1,727,571; Sept. 10.
- Pumping liquid fuels. J. F. Denison and H. F. Hobson. 1,719,501; July 2.
- Pumping material, Apparatus for. J. E. Boynton. 1,741,816; Dec. 31.
- Pumping mechanism. E. A. Gallison. 1,735,110; Nov. 12.
- Pumping mechanism. C. W. Hughes. 1,717,688; June 18.
- Pumping mechanism. T. J. Little, Jr. 1,713,234; May 14.
- Pumping mechanism. J. G. Schotthoefer. 1,723,493; Aug. 6.
- Pumping mechanism for oil wells. W. F. Reschke. 1,699,675; Jan. 22.
- Pumping mechanism, Inertia-operated. F. B. MacLaren. 1,737,380; Nov. 26.
- Pumping mechanism, Long-stroke. H. W. Graves. 1,698,130; Jan. 8.
- Pumping mechanism, Long-stroke. D. L. Shull. 1,734,649; Nov. 5.
- Pumping mechanism, Rotary well. M. E. Layne. 1,701,079; Feb. 5.
- Pumping oil from wells, Apparatus for. B. H. Lybyer. 1,698,444; Jan. 8.
- Pumping or circulating system. L. A. Parrish, R. H. Ericson, and A. McCracken. 1,714,921; May 28.
- Pumping-power unit for oil wells. R. A. Dresser. 1,720,514; July 9.
- Pumping rig. R. C. Mason. 1,708,584; Apr. 9.
- Pumping system. E. L. Carlin. 1,702,719; Feb. 19.
- Pumping system. R. E. Frickey and W. R. Layne. 1,736,002; Nov. 19.
- Pumping system. J. Oliphant. 1,741,069; Dec. 24.
- Pumping system. W. C. Parrish. 1,741,115; Dec. 24.
- Pumping system. H. A. and F. B. Smith. 1,717,812; June 18.
- Pumping system, Air-lift. R. E. C. Martin. 1,740,742; Dec. 24.
- Pumping system, Automatically-controlled fluid. L. A. Vignere. 1,705,792; Mar. 19.
- Pumping system, Combined mechanical and air lift. J. Oliphant. 1,702,838; Feb. 19.
- Pumping system for metal-tank rectifiers. V. K. Zworykin and E. B. Shand. 1,716,160; June 4.
- Pumping system, Inertia. C. H. Braselton and F. B. MacLaren. 1,711,169; Apr. 30.
- Pumping system, Oil. C. B. Lucke. 1,697,605; Jan. 1.
- Pumping unit. A. Jordao, Jr. 1,739,000; Dec. 10.
- Pumping wells, Pneumatic apparatus for. G. B. Small. 1,724,853; Aug. 13.
- Pumps and blowers, Guide-vane construction for. H. F. Schmidt. 1,716,008; June 4.
- Pumps, Apparatus for automatically priming centrifugal. B. Skidmore, Jr. 1,732,542; Oct. 22.
- Pumps, Borehole and other. H. Knab. 1,714,425; May 21.
- Pumps, Bowl for fluid-measuring. H. W. Knight. 1,711,796; May 7.
- Pumps, Combined air chamber and fluid strainer for. E. E. Greve. 1,703,143; Feb. 26.
- Pumps, Cutter head for. H. E. Ellis. 1,713,037; May 14.
- Pumps, Division plate for. E. J. De Ville. 1,728,788; Sept. 17.
- Pumps, Fluid-circulation unit for. L. J. Black. 1,705,216; Mar. 12.
- Pumps, Primer for vacuum. C. A. Dunham. 1,734,567; Nov. 5.
- Pumps, Sight prime and drainage indicator for gasoline. A. E. Davenport. 1,715,281; May 28.
- Punch. M. F. Bollert. 1,704,962; Mar. 12.
- Punch. D. Laterza. 1,730,279; Oct. 1.
- Punch and die. O. Kahn. 1,727,065; Sept. 3.
- Punch assembly. E. Henrierson. 1,723,935; Aug. 6.
- Punch, Check. H. B. Ruggles. 1,721,055; July 16.
- Punch for forming tubes, Telescopic. L. J. Parker. 1,720,375; July 9.
- Punch-gauging apparatus. W. Sheehan. 1,740,374; Dec. 17.
- Punch-holder mechanism. R. L. Wilcox. 1,737,443; Nov. 26.
- Punch, Inking. E. F. Graf. 1,738,891; Dec. 10.
- Punch machine. P. A. Juul. 1,736,855; Nov. 26.
- Punch mechanism, Printing. W. W. Lasker. 1,727,471; Sept. 10.
- Punch, Paper. A. Glaeser. 1,738,572; Dec. 10.
- Punch, Paper-filing. G. A. Shadnuck. 1,714,192; May 21.
- Punch-press die. H. Philip. 1,729,123; Sept. 24.
- Punch presses, Stock-ejecting device for. J. W. Jones, Jr. 1,712,799; May 14.
- Punch, Shank and bit. J. Ditson. 1,698,783; Jan. 15.
- Punch, Shank and bit. A. E. Peters and J. Ditson. 1,720,435; July 9.
- Punch, Trimming and stripping. W. E. Burns. 1,733,445; Oct. 29.
- Punching and cutting machine, Combination belt. E. Vollrath. 1,736,559; Nov. 19.
- Punching and riveting press. M. O. Kuhn. 1,697,817; Jan. 1.
- Punching attachment for presses. W. H. Nickerson. 1,735,780; Nov. 12.
- Punching bag. D. McNamara. 1,703,012; Feb. 19.
- Punching machine. C. H. Cavill. 1,728,475; Sept. 17.
- Punching machine. P. A. Juul. 1,704,973; Mar. 12.
- Punching machine. F. Whitecar. 1,736,958; Nov. 26.
- Punching machine, Jacquard card. G. W. Neville. 1,732,982; Oct. 22.
- Punching machines, Air-control mechanism for. L. H. Vold and K. R. Hammerstrom. 1,702,097; Feb. 12.
- Punching machines, Material-moving mechanism for. L. H. Vold and K. R. Hammerstrom. 1,698,326; Jan. 8.
- Punching mechanism for use with adding machines. H. E. Baker. 1,701,436; Feb. 5.
- Punching press, Power. O. S. Beyer. 1,716,414; June 11.
- Punching presses, Stripper mechanism for. J. M. Rohlfing. 1,706,075; Mar. 19.
- Punctureproof tubes, Manufacturing. O. J. Kuhlke. 1,709,797; Apr. 16.
- Purification of coke-oven gases and the like. G. Claude. 1,702,683; Feb. 19.
- Purification of crude carbon disulphide, Continuous. E. Legeler and P. Esselmann. 1,728,686; Sept. 17.
- Purification of crude carbon tetrachloride. W. B. Van Arsdel and H. P. Vannah. 1,697,483; Jan. 1.
- Purification of detergent solutions. G. B. Boon. 1,711,829; May 7.
- Purification of impure solutions of caustic soda and the like, on osmotic principles, Apparatus for the. L. Cerini. 1,719,754; July 2.
- Purification of industrial zinc-sulphate solutions preparatory to electrolysis. R. H. Stevens, G. C. Norris, and W. N. Watson. 1,733,676; Oct. 29.
- Purification of leaching solutions and the recovery of acids or dissolving agents. A. E. Wheeler. 1,703,435; Feb. 26.
- Purification of liquids containing sugar. G. E. Van Nes. 1,727,738; Sept. 10.
- Purification of magnesium and its alloys. G. Michel. 1,698,647; Jan. 8.
- Purification of oils. H. Odeen. 1,705,824-5; Mar. 19.
- Purification of phenyl-ethyl alcohol. E. C. Britton. 1,698,932; Jan. 15.
- Purification of solution of metal salts. A. Vohl and W. Wachtendorf. 1,706,196; Mar. 19.
- Purification of tar-acid-bearing oils. S. Caplan. 1,710,764; Apr. 30.
- Purification of waste water, Apparatus for the mechanical. E. Geiger. 1,716,376; June 11.
- Purification system for boilers. J. Ostertag. 1,700,715; Jan. 29.
- Purifier for contaminated liquids. G. H. Greenhalgh and R. P. F. Liddell. 1,741,696; Dec. 31.
- Purifier, Water. K. Pecz and K. Rejtö. 1,705,095; Mar. 12.
- Purifying alpha naphthol. A. B. Davis. 1,717,009; June 11.
- Purifying and adding a green fluorescence to lubricating oil. W. D. Rial and W. R. Barratt. 1,708,592; Apr. 9.
- Purifying and charging a gas into vacuum tubes or other containers, Method and apparatus for. R. W. Lohman. 1,732,336; Oct. 22.
- Purifying anthraquinone. H. F. Lewis. 1,701,186; Feb. 5.
- Purifying caustic soda. A. H. Hooker and W. J. Marsh. 1,733,879; Oct. 29.
- Purifying clay and like materials. F. Parentani. 1,727,441; Sept. 10.
- Purifying gases. J. G. Dely. 1,698,718; Jan. 15.
- Purifying gases. W. H. Fulweiler. 1,700,698; Jan. 29.
- Purifying gases. E. Piron. 1,701,054; Feb. 5.
- Purifying hydrocarbon oil, Method of and apparatus for. L. M. Johnston and J. L. Farrell. 1,706,614; Mar. 26.
- Purifying hydrocarbons. J. C. Black and M. L. Chappell. 1,710,201; Apr. 23.
- Purifying liquids, Process and composition for. A. B. Ray. 1,699,449; Jan. 15.
- Purifying lubricating oil, Apparatus for. C. L. McCuen. 1,720,084; July 9.
- Purifying of metals and the like, Apparatus for centrifugal. B. P. Huewitt. 1,709,939; Apr. 23.
- Purifying petroleum oils. J. C. Black, W. D. Rial, and R. T. Howes. 1,709,203; Apr. 16.
- Purifying phenolformaldehyde resins. F. Seebach. 1,697,885; Jan. 8.
- Purifying phthalic anhydride. A. O. Jaeger and F. A. Canon. 1,702,871; Feb. 19.
- Purifying polluted liquids and industrial waste. J. T. Travers. 1,715,877; June 4.
- Purifying polluted water, sewage, and the like by a chemobiological mechanical process. E. F. Harrison. 1,734,011; Oct. 29.
- Purifying raw sugar juices. H. Schreiber. 1,724,376; Aug. 13.
- Purifying salt for recovering by-products. V. Yngve. 1,697,336; Jan. 1.
- Purifying the exhaust gases from internal-combustion engines. J. Dilsky. 1,716,481; June 11.
- Purifying used lubricating oil, Apparatus for. C. E. Felch-Blake. 1,723,023; Aug. 6.
- Purifying water-soluble metal sulphides. E. A. Taylor. 1,713,409; May 14.
- Purse. E. F. Dunn and E. Muhlestein. 1,704,285; Mar. 5.
- Purse, Coin. D. Fairbairn. 1,699,614; Jan. 22.
- Purse, Illuminated. M. Koban and U. Ercolani. 1,739,316; Dec. 10.
- Purse, Key. H. C. Schroeder. 1,735,300; Nov. 12.
- Push and pull jack. J. C. Dawley. 1,703,992; Mar. 5.
- Push-button and card-holder box. H. Wilhelm. 1,700,577; Jan. 29.
- Push-button switch. J. Horn. 1,726,897; Sept. 3.



- Push furnace, Continuous. W. B. Chapman. 1,713,995; May 21.
- Pusher for screw machines. F. H. Milligan. 1,737,667; Dec. 3.
- Pushing and up-edging apparatus. R. C. Penfield and C. E. Fuller. 1,733,237; Oct. 29.
- Pushing apparatus. F. Fink. 1,728,726; Sept. 17.
- Putlog. C. C. Pimm. 1,698,508; Jan. 8.
- Putter, Golf. W. G. Foard. Des. 79,553; Oct. 8.
- Putting green. H. E. Baack. 1,722,028; July 23.
- Putting receptacle for golf games. W. B. Jaspert. 1,712,561; May 14.
- Putty spreader. W. A. Young. 1,731,186; Oct. 8.
- Puzzle. F. Gonzales. 1,726,952; Sept. 3.
- Puzzle. J. V. Nichols. 1,707,813; Apr. 2.
- Puzzle board. W. E. Darrow. 1,698,780; Jan. 15.
- Puzzle or game, Cut-out. T. C. Graham. 1,714,127; May 21.
- Pyridine derivatives, Producing. M. Dohrn and R. Dirksen. 1,706,775; Mar. 26.
- Pyridium, Obtaining. I. Ostromislensky. 1,724,305; Aug. 13.
- Pyrogenetic cracking process. R. W. Hanna. 1,724,476; Aug. 13.
- Pyrometer. R. C. Pairman. 1,728,626; Sept. 17.
- Pyrometer. C. B. Thwing. 1,734,837; Nov. 5.
- Pyrometer, Magnetic. T. Spooner. 1,697,148; Jan. 1.
- Pyrometer, Radiation. C. E. Foster. 1,714,664; May 28.
- Pyrometer-reading switch, Selective. E. Williams. 1,735,485; Nov. 12.
- Pyrotechnic device. C. D. Miller. 1,709,033; Apr. 16.
- Pyrotechnic device. H. Tomizawa. 1,700,243; Jan. 29.
- Pyrotechnic device. W. F. Gehrig. 1,734,722; Nov. 5.
- Pyroxylin composition. R. Calvert. 1,702,151; Feb. 12.
- Pyroxylin composition. R. H. Van Schaack, jr. 1,702,181; Feb. 12.
- Pyroxylin composition. R. H. Van Schaack, jr. 1,734,657; Nov. 5.
- Quantity-indicating device for liquids. E. R. Powell. 1,707,768; Apr. 2.
- Quartz beams or the like, Manufacture of fused. R. W. Clark and L. Sample. 1,724,793; Aug. 13.
- Quenching apparatus. R. H. Smith. 1,698,858; Jan. 15.
- Quick-acting coupling. A. L. Wallace. 1,738,216; Dec. 3.
- Quick-acting regulator. H. Güttinger. 1,738,102; Dec. 3.
- Quick-acting switch. E. P. Larsh. 1,699,792; Jan. 22.
- Quick-detachable appliance. G. W. Oakes. 1,706,317; Mar. 19.
- Quick-service device. C. C. Farmer. 1,739,583; Dec. 17.
- Quick-set wrench. O. Becklin. 1,736,303; Nov. 19.
- Quick-throw mechanism. P. S. Ivanhoff. 1,715,327; May 28.
- Quick-traverse shapers, Manufacturing. W. F. Zimmermann. Re17,420; Aug. 27.
- Quilt or similar article. B. Bing. Des. 79,279; Aug. 27.
- Quilting, crochet, and handwork frame, Combination. E. Moran. 1,724,215; Aug. 13.
- Quilting frame. E. S. Root. 1,732,660; Oct. 22.
- Quilting frame. J. R. Russell. 1,698,108; Jan. 8.
- Quinine compound and making the same. W. H. Engels. 1,741,761; Dec. 31.
- Quinone derivatives, Manufacture of. F. Günther. 1,735,432; Nov. 12.
- Quoin chase, Printer's. C. F. Weldon. 1,740,382; Dec. 17.
- Quotations, Handling. W. T. Birdsall. 1,715,894; June 4.
- Race track. F. L. Fincham. 1,721,512; July 23.
- Racing apparatus. W. A. Thum. 1,706,265; Mar. 19.
- Racing apparatus, Dog-. P. J. Cullerton. 1,712,379; May 7.
- Racing apparatus, Dog-. T. H. Porter. 1,703,209; Feb. 26.
- Racing-track apparatus. R. L. Greist. 1,714,088; May 21.
- Racing-track apparatus. H. B. Staver. 1,714,328; May 21.
- Rack: See—
- Advertising rack. Magazine and newspaper rack.
- Automobile rack. Magazine rack.
- Bar rack. Necktie rack.
- Barrel rack. Newspaper rack.
- Bottle rack. Oiling rack.
- Burning rack. Pad rack.
- Casing rack. Pie rack.
- Clothes rack. Running-board rack.
- Clothes-drying rack. Secondary rack.
- Coat and hat rack. Sheet-metal rack.
- Cooking rack. Shelf and clothes rack.
- Cooling rack. Shipping rack.
- Dish rack. Shoe rack.
- Display rack. Storage rack.
- Display sales rack. Sucker-rod rack.
- Draining rack. Supporting rack.
- Drying rack. Tie rack.
- Electroplating rack. Tobacco rack.
- Fish baking and lifting rack. Tool rack.
- Floral rack. Towel rack.
- Flour-bag rack. Trunk rack.
- Folding rack. Tubular rack.
- Football rack. Umbrella and hat rack.
- Golf-club rack. Utensil rack.
- Hose rack. Utility rack.
- Ice rack. Vending and display rack.
- Insulator rack. Walker rack.
- Knife rack. Windshield rack.
- Laundry rack. Yarn rack.
- Magazine and book rack.
- Rack. A. W. Cleveland and O. C. Morse. 1,714,258; May 21.
- Rack. N. M. Elbon. 1,735,740; Nov. 12.
- Rack. C. Martin. 1,698,762; Jan. 15.
- Rack. J. Reichert. 1,710,514; Apr. 23.
- Rack. A. Schubert. 1,707,576; Apr. 2.
- Rack. H. S. Taylor. 1,735,220; Nov. 12.
- Rack. W. N. Vance. 1,723,753; Aug. 6.
- Rack and clothes drier, Combined. C. C. Moore. 1,736,717; Nov. 19.
- Rack and umbrella case for automobiles, Lap-robe. O. N. Hall. 1,967,763; Jan. 1.
- Rack and vapor spray, Fruit and vegetable. W. M. White. 1,724,153; Aug. 13.
- Rack attachment. J. W. Chow. 1,705,557; Mar. 19.
- Rack attachment, Burning-. H. T. Bebb. 1,738,031; Dec. 3.
- Rack-bar-driving mechanism of printing tabulators. W. W. Lasker. 1,730,512; Oct. 8.
- Rack for actuating the shuttles of narrow-ware looms. C. Daniels. 1,707,512; Apr. 2.
- Rack for adhesive plaster. R. W. Johnson. 1,711,353; Apr. 30.
- Rack for automobiles, Hat. R. H. Emery. 1,704,886; Mar. 12.
- Rack for dishes and like culinary effects, Draining or drying. W. G. Fitzgerald. 1,712,342; May 7.
- Rack for electric conduits. T. R. Eilenberg. 1,714,006; May 21.
- Rack for flat tableware. C. W. Burnham. 1,701,062; Feb. 5.
- Rack for grain thrashers, Straw. W. H. Fiant. 1,704,598; Mar. 5.
- Rack for group mail boxes, Package. J. Gafney. 1,741,928; Dec. 31.
- Rack for presses, Sheet. F. S. English and R. H. Dodds. 1,699,284; Jan. 15.
- Racks, Making. A. L. Johnson. 1,731,859; Oct. 15.
- Racquet, Tennis. C. L. Godfrey. 1,733,960; Oct. 29.
- Radial aero engine. J. Felt. 1,708,611; Apr. 9.
- Radial drill, Constant-drive. D. C. Klausmeyer and H. M. Norris. 1,727,606; Sept. 10.
- Radial resonator, Push-pull-actuated. M. R. Hutchison. 1,735,862; Nov. 19.
- Radial resonator with bass-note propagator. M. R. Hutchison. 1,735,863; Nov. 19.
- Radiant electric heater. J. F. Adams. 1,706,202; Mar. 19.
- Radiant energy, Method of and apparatus for converging and diverging rays emitted from a source of. M. Jacobson. 1,704,477; Mar. 5.
- Radiant-energy sensitive device, System utilizing. H. J. Van der Bijl. 1,711,663; May 7.
- Radiant energy, System for the transmission of. J. H. Hammond, jr. Re17,262; Apr. 9.
- Radiation prevention. C. W. Hansell. 1,725,915; Aug. 27.
- Radiator. T. A. Baldwin. 1,734,956; Nov. 12.
- Radiator. G. S. Barrows. 1,726,285; Aug. 27.
- Radiator. R. H. Beach. 1,737,557; Dec. 3.
- Radiator. C. S. Carlberg. 1,703,572; Feb. 26.
- Radiator. J. Chalmers. 1,732,258; Oct. 22.
- Radiator. J. J. Currello. 1,725,570; Aug. 20.
- Radiator. A. and V. Gedeon. 1,721,149; July 16.
- Radiator. L. C. Gnagi. 1,741,930; Dec. 31.
- Radiator. R. R. Goshorn. 1,738,100; Dec. 3.
- Radiator. H. A. Higgins. 1,739,671; Dec. 17.
- Radiator. J. R. Hughes. Des. 79,372; Sept. 10.
- Radiator. W. F. and L. B. Kinnee. 1,712,218; May 7.
- Radiator. W. E. Kuenster. 1,737,251; Nov. 26.
- Radiator. C. T. Morse. 1,704,014; Mar. 5.
- Radiator. T. E. Murray. 1,699,542; Jan. 22.
- Radiator. T. E. Murray. 1,715,378; June 4.
- Radiator. T. E. Murray. 1,723,573; Aug. 6.
- Radiator. T. E. Murray. 1,726,235; Aug. 27.
- Radiator. T. E. Murray. 1,726,711; Sept. 3.
- Radiator. T. E. Murray. 1,731,472; Oct. 15.
- Radiator. T. E. Murray, jr. 1,705,491; Mar. 19.
- Radiator. T. E. Murray, jr. and I. T. Bennett. 1,706,982; Mar. 26.
- Radiator. F. M. Opitz. 1,706,584; Mar. 26.
- Radiator. G. H. Phelps and T. E. Murray, jr. 1,716,459; June 11.
- Radiator. C. F. Sperry. 1,721,285; July 16.
- Radiator. B. G. Sprung. 1,967,792; Jan. 1.
- Radiator. A. L. Swank. 1,734,923; Nov. 5.
- Radiator. N. Walker. 1,735,942; Nov. 19.
- Radiator and forming the same. J. Karmazin. 1,718,361; June 25.
- Radiator and headlight, Combined automobile. L. W. Kilgour. Des. 77,415; Jan. 8.
- Radiator and the like. J. V. H. Besson. 1,728,097; Sept. 10.
- Radiator and the like. W. J. Gamble. 1,721,621; July 23.
- Radiator arrangement for cars with high speeds. F. Kruckenberg and C. Stedefeld. 1,712,622; May 14.
- Radiator-assembling machine. J. Karmazin. 1,717,039; June 11.
- Radiator attachment. F. R. Ford, jr. 1,712,656; May 14.
- Radiator attachment. A. B. Langer. 1,709,623; Apr. 16.
- Radiator attachment. G. M. Sacerdote. 1,734,532; Nov. 5.
- Radiator attachment, Automobile. J. S. Sherman. 1,714,279; May 21.
- Radiator, Automobile. P. H. Lonergan. 1,728,973; Sept. 24.



- Radiator, Automobile. W. W. Muir. 1,705,026; Mar. 12.  
 Radiator, Automobile. F. M. Young. 1,717,082; June 11.  
 Radiator box base. C. C. Shipp. 1,711,814; May 7.  
 Radiator cap. O. H. Clark. Des. 78,153; Apr. 2.  
 Radiator cap. F. A. Holloman. Des. 79,718; Oct. 29.  
 Radiator cap. W. B. Jarvis. 1,712,795; May 14.  
 Radiator cap. A. C. Lippert. Des. 77,846; Feb. 26.  
 Radiator cap. H. J. Mescher. 1,697,991; Jan. 8.  
 Radiator cap. G. H. Miner and W. J. McClelland. 1,707,361; Apr. 2.  
 Radiator cap. E. B. Nowosielski. 1,708,516; Apr. 9.  
 Radiator cap. H. S. Pardee and J. A. Dewire. 1,707,365; Apr. 2.  
 Radiator cap. H. Schlaich. 1,699,313; Jan. 15.  
 Radiator cap. H. Schlaich. 1,730,691; Oct. 8.  
 Radiator cap. W. Schnell. Des. 77,709; Feb. 12.  
 Radiator cap. W. W. Scott. 79,310; Aug. 27.  
 Radiator cap. K. E. Stant. 1,703,253; Feb. 26.  
 Radiator cap. L. A. Sweet. 1,724,978; Aug. 20.  
 Radiator cap. I. L. Wolkow. 1,707,338; Apr. 2.  
 Radiator cap, Automobile. A. Sebek. Des. 80,056; Dec. 3.  
 Radiator-cap construction. P. E. Gabriel. 1,714,772; May 28.  
 Radiator-cap lock. H. H. Boyce. 1,732,257; Oct. 22.  
 Radiator-cap lock. O. C. Ritz Woller. 1,730,710; Oct. 8.  
 Radiator cap, Motor-vehicle. A. L. Knapp. Des. 77,603; Jan. 29.  
 Radiator-cap ornament. R. Dietsch. Des. 77,894; Mar. 5.  
 Radiator-cap ornament. H. B. Joseph. Des. 78,467; May 7.  
 Radiator-cap ornament, Automobile. H. C. Kenly. Des. 78,104; Mar. 26.  
 Radiator cap or similar article, Automobile. C. W. West. Des. 78,910; July 2.  
 Radiator cap or the like for an automobile. W. Schnell. Des. 79,936; Nov. 19.  
 Radiator-cap-securing device. H. H. Boyce. 1,740,152; Dec. 17.  
 Radiator cap, Vehicle. M. Kirin. 1,732,020; Oct. 15.  
 Radiator caps, Retaining device for. T. Hill. 1,717,881; June 18.  
 Radiator caps, Retaining device for. H. Schlaich. 1,711,287; Apr. 30.  
 Radiator casing. W. H. Brooker. 1,730,262; Oct. 1.  
 Radiator closure. H. J. Earl. Des. 77,895; Mar. 5.  
 Radiator closure, Automobile. F. A. Whitten. 1,698,147; Jan. 8.  
 Radiator connection. L. E. Stanhope. 1,718,010; June 18.  
 Radiator connection for transformer tanks. L. G. McClintock. 1,735,289; Nov. 12.  
 Radiator construction. J. H. Briskin. 1,730,719; Oct. 8.  
 Radiator construction. A. B. Modine. 1,703,682; Feb. 26.  
 Radiator construction. A. B. Modine. 1,726,360; Aug. 27.  
 Radiator construction. G. C. Moreux. 1,727,780; Sept. 10.  
 Radiator construction. C. F. Sperry. 1,721,284; July 16.  
 Radiator construction, Automobile. W. McArthur, jr. 1,698,236-7; Jan. 8.  
 Radiator core. R. Despres. 1,720,669; July 16.  
 Radiator core. C. A. Erickson. 1,705,969; Mar. 19.  
 Radiator core. J. M. Fedders. 1,717,348; June 11.  
 Radiator-core structures, Making. T. N. Coffelder. 1,733,646; Oct. 29.  
 Radiator cover or similar article. P. E. Schleicher and W. C. Calcott. Des. 78,127; Mar. 26.  
 Radiator, Crescent. J. H. Cross, E. W. Franklin, and E. L. Schneider. 1,726,695; Sept. 3.  
 Radiator, Electric. B. F. P. Vedder. 1,709,505; Apr. 16.  
 Radiator, Electric air-heating. R. T. Bowling and H. L. Cobb. 1,701,096; Feb. 5.  
 Radiator, Electric heating. A. Anderson. 1,709,052; Apr. 16.  
 Radiator, Electrical energy. H. W. Nichols. 1,709,090; Apr. 16.  
 Radiator, Electrically-heated steam. A. J. Henry. 1,731,624; Oct. 15.  
 Radiator filler and ornament, Combination automobile. T. Harlow and W. Zimmermann. 1,699,889; Jan. 22.  
 Radiator for aeroplanes. H. C. Mummert. 1,714,804; May 28.  
 Radiator for an automobile. R. G. F. Loewy. Des. 79,974; Nov. 26.  
 Radiator for heating purposes. G. E. Otis and W. Shurtleff. 1,707,564; Apr. 2.  
 Radiator for hot-air furnaces. C. A. Bangert. 1,731,807; Oct. 15.  
 Radiator for hot-air furnaces. J. F. Firestone. 1,721,620; July 23.  
 Radiator for hot-air furnaces. L. Williams. 1,720,985; July 16.  
 Radiator for railway-car-heating systems. E. H. Gold and E. A. Russell. 1,729,478; Sept. 24.  
 Radiator for use in heavy vehicles, Water-cooling. E. Schweter. 1,705,143; Mar. 12.  
 Radiator for warm-air furnaces. J. P. Kolla. 1,733,158; Oct. 29.  
 Radiator for warm-air furnaces, Fin. H. W. Neal. 1,716,083; June 4.  
 Radiator furniture. J. W. Rogers. 1,697,965; Jan. 8.  
 Radiator, Gas. C. W. Irish. 1,729,831; Oct. 1.  
 Radiator, Gas and electric heat. W. Guy-Pell. 1,712,385; May 7.  
 Radiator hanger. E. L. Hessel. 1,736,596; Nov. 19.  
 Radiator hood. W. S. Elters. 1,734,568; Nov. 5.  
 Radiator-hood construction. P. E. Schleicher. 1,724,046; Aug. 13.  
 Radiator, hood, lamps, and fenders, Combination of automobile. J. R. Hughes. Des. 79,373; Sept. 10.  
 Radiator inclosure. I. Jackson. 1,702,870; Feb. 19.  
 Radiator inclosure. S. Kauffman. 1,735,436; Nov. 12.  
 Radiator mounting. J. H. Cooper. 1,701,664; Feb. 12.  
 Radiator protector. F. A. Goodykooztz. 1,706,447; Mar. 26.  
 Radiator protector. L. E. Kerbs. 1,715,762; June 4.  
 Radiator reinforcement. A. L. Swank. 1,735,807; Nov. 12.  
 Radiator repair and test apparatus, Automobile. G. W. Cross. 1,712,874; May 14.  
 Radiator screen. M. R. Warren. 1,731,085; Oct. 8.  
 Radiator-sealing composition. R. C. Meneray. 1,722,437; July 30.  
 Radiator section, Sheet metal. G. R. Tellander. 1,726,458; Aug. 27.  
 Radiator, Sectional. F. M. Young. 1,707,454; Apr. 2.  
 Radiator sections by soldering, Method and apparatus for assembling. J. Karmazin. 1,705,572; Mar. 19.  
 Radiator, Sheet-metal. A. Fuchs. 1,714,771; May 28.  
 Radiator shell. J. Etrych. Des. 78,387; Apr. 30.  
 Radiator shell. E. B. Ford. Des. 77,682; Feb. 12.  
 Radiator shell. F. W. Slack. Des. 77,655; Feb. 5.  
 Radiator shell. J. Tjaarda. Des. 80,057; Dec. 3.  
 Radiator shell and lamp housing, Combined. F. J. Uilrich. Des. 78,668; May 28.  
 Radiator shell, Automobile. J. C. Coulombe. Des. 79,622-36; Oct. 22.  
 Radiator shell, Automobile. J. C. Coulombe. Des. 79,700-1; Oct. 29.  
 Radiator shell, Automobile. J. C. Coulombe. Des. 80,109-15; Dec. 17.  
 Radiator shield. E. G. Hess. 1,702,693; Feb. 19.  
 Radiator shield. C. A. Johnson. 1,706,028; Mar. 19.  
 Radiator shield. O. K. Schneider. 1,707,282; Apr. 2.  
 Radiator shutter. R. B. Beisel. 1,714,842; May 28.  
 Radiator shutter. H. T. Stokes. 1,697,149; Jan. 1.  
 Radiator-shutter control. C. A. Pipenhagen. 1,712,519; May 14.  
 Radiator, Sound. C. E. Lane. 1,722,805; July 30.  
 Radiator stand. G. S. Clement. 1,732,081; Oct. 15.  
 Radiator structure. C. J. Bock. 1,737,353; Nov. 26.  
 Radiator support. M. Witte. 1,699,826; Jan. 22.  
 Radiator trap, Thermostatic. W. S. Valmore. 1,704,848; Mar. 12.  
 Radiator tube. R. W. Bowne. 1,713,020; May 14.  
 Radiator tube and making the same. N. Kramer. 1,734,136; Nov. 5.  
 Radiator unit. F. Gargiulo. 1,701,752; Feb. 12.  
 Radiator, Unit steam or hot-water. D. H. Foster. 1,699,184; Jan. 15.  
 Radiator ventilator, Automobile. I. Huebner. 1,712,111; May 7.  
 Radiator wall shield. H. G. Sweitzer. 1,734,924; Nov. 5.  
 Radiator, Warm-air-furnace. A. Wagstaff. 1,699,319; Jan. 15.  
 Radiators, Apparatus for reclaiming automobile. A. O. Mason. 1,725,990; Aug. 27.  
 Radiators, Forming. J. Karmazin. 1,740,098; Dec. 17.  
 Radiators, Forming. C. T. Morse. 1,719,847; July 9.  
 Radiators in aeroplane wings, Arrangement for mounting. E. M. G. Lepere. 1,730,978; Oct. 8.  
 Radiators, Manufacturing. P. P. Henshall. 1,703,527; Feb. 26.  
 Radiators, Method and apparatus for forming. J. Karmazin. 1,724,486; Aug. 13.  
 Radiators, Method and machine for constructing. J. Karmazin. 1,717,038; June 11.  
 Radiators or the like, Connection for. W. Nathanson. 1,707,172; Mar. 26.  
 Radiators, Reinforcement for tubular. F. M. Young. 1,696,995; Jan. 1.  
 Radiators, Shutter apparatus for. J. F. Raleigh. 1,699,020; Jan. 15.  
 Radiators, Shutter mechanism for automobile. C. J. Rood. 1,737,946; Dec. 3.  
 Radiators, Water-control means for. J. Turek. 1,710,848; Apr. 30.  
 Radioactive energy into inaccessible tissue and positions, Apparatus for facilitating the application of. F. R. Hart. 1,721,019; July 16.  
 Radioactive material ray disseminator. W. J. A. Bailey. Des. 79,690; Oct. 29.  
 Radioactive material with a metallic carrier, Uniting. A. Fischer. 1,718,899; June 25.  
 Radioaerial. W. B. Lucas. 1,721,702; July 23.  
 Radio and phonograph cabinet, Combination. F. C. Burton. Des. 79,952; Nov. 26.  
 Radio and phonograph cabinet, Combination. C. Otto. Des. 77,976; Mar. 12.  
 Radioantenna. C. S. Demarest and R. S. Ohl. 1,703,870; Mar. 5.  
 Radioantenna, Fading and static. Eliminating. G. W. Cooper. 1,710,085; Apr. 23.  
 Radio apparatus. D. F. Asbury. 1,700,361; Jan. 29.  
 Radio apparatus. D. F. Asbury. 1,705,056; Mar. 12.  
 Radio apparatus. D. F. Asbury. 1,726,876; Sept. 3.  
 Radio apparatus. C. C. Blackmore. 1,716,538; June 11.  
 Radio apparatus. W. M. Brower. 1,737,824; Dec. 3.  
 Radio apparatus. J. H. Flynn, jr. 1,699,185; Jan. 15.  
 Radio apparatus. E. G. Gage. 1,708,538; Apr. 9.  
 Radio apparatus. J. A. Hanson. 1,725,074; Aug. 20.  
 Radio apparatus. A. A. Kent. 1,719,014; July 2.



- Radio apparatus. F. A. Kolster. 1,726,705; Sept. 3.  
Radio apparatus. F. A. Kolster. 1,730,577; Oct. 8.  
Radio apparatus. F. Oberst. 1,718,374; June 25.  
Radio apparatus. L. R. Paust. 1,697,512; Jan. 1.  
Radio apparatus. G. W. Pickard. 1,708,453; Apr. 9.  
Radio apparatus. G. W. Pickard. 1,718,431; June 25.  
Radio apparatus. R. H. Reynolds. 1,734,146; Nov. 5.  
Radio apparatus. A. F. Sanford. 1,705,999; Mar. 19.  
Radio apparatus. A. F. Sanford. 1,710,553; Apr. 23.  
Radio apparatus. D. F. Whiting. 1,722,068; July 23.  
Radio apparatus. G. O. Wilms. 1,737,903; Dec. 3.  
Radio apparatus and operating the same. H. N. Marvin. 1,704,754; Mar. 12.  
Radio apparatus and the like, Adjusting mechanism for. A. Dorsey. 1,702,934; Feb. 19.  
Radio apparatus, Distant control for. F. W. Renwick. 1,742,147; Dec. 31.  
Radio apparatus, Energizing. C. Bol and C. H. Morel. 1,735,152; Nov. 12.  
Radio apparatus, gramophones, and the like, Membrane loud-speaker for. M. Ritter. 1,706,323; Mar. 19.  
Radio apparatus, Lead-in for. J. A. Rostrom. 1,715,952; June 4.  
Radio appliance. W. Dubilier. 1,705,559; Mar. 19.  
Radio attachment for phonographs. E. E. Linehan. Re17,408; Aug. 20.  
Radio broadcast distributing system. E. E. Clement. 1,706,377; Mar. 19.  
Radio broadcast distributing system. E. E. Clement. 1,706,379; Mar. 19.  
Radio broadcast distributing system. E. E. Clement. 1,706,382-3; Mar. 19.  
Radio broadcasting system. L. Espenschied, R. Bown, and D. K. Martin. 1,711,560; May 7.  
Radiocabinet. L. P. Alonzi. Des. 74,219; Aug. 20.  
Radiocabinet. L. P. Alonzi. Des. 79,275; Aug. 27.  
Radiocabinet. A. G. Anderson. Des. 78,556; May 21.  
Radiocabinet. H. Berg. Des. 79,221; Aug. 20.  
Radiocabinet. F. C. Burton. Des. 77,529; Jan. 22.  
Radiocabinet. F. C. Burton. Des. 77,882; Mar. 5.  
Radiocabinet. F. C. Burton. Des. 79,787; Nov. 5.  
Radiocabinet. F. C. Burton. Des. 79,951; Nov. 26.  
Radiocabinet. L. M. Clement. Des. 79,498; Oct. 1.  
Radiocabinet. E. L. Combs. Des. 79,878; Nov. 12.  
Radiocabinet. H. J. Frenz. Des. 77,595; Jan. 29.  
Radiocabinet. J. N. House. Des. 79,657; Oct. 22.  
Radiocabinet. E. V. Hughes. Des. 78,625; May 28.  
Radiocabinet. A. D. Martin. Des. 77,491; Jan. 15.  
Radiocabinet. J. E. Mockley. Des. 77,909; Mar. 5.  
Radiocabinet. C. Otto. Des. 77,977; Mar. 12.  
Radiocabinet. E. F. Pooley. Des. 78,372; Apr. 23.  
Radiocabinet. E. F. Pooley. Des. 78,654; May 28.  
Radiocabinet. A. O. Price. 1,727,558; Sept. 10.  
Radiocabinet. S. Richards. 1,725,371; Aug. 20.  
Radiocabinet. A. Russell. Des. 78,407; Apr. 30.  
Radiocabinet. F. Schwartz. Des. 77,506; Jan. 15.  
Radiocabinet. F. Schwartz. Des. 78,233; Apr. 9.  
Radiocabinet. W. B. Stevenson. Des. 80,247; Dec. 31.  
Radiocabinet. P. J. Townsend. Des. 77,515; Jan. 15.  
Radiocabinet. R. E. Tresise. Des. 79,492; Sept. 24.  
Radiocabinet. M. C. Whitmore. Des. 78,136; Mar. 26.  
Radiocabinet. H. M. Zeltner. Des. 79,450; Sept. 17.  
Radiocabinet and clock, Combined. E. Granberg. Des. 79,802; Nov. 5.  
Radiocabinet or similar article. E. Worthington. Des. 78,323; Apr. 16.  
Radiocabinet or similar article. E. Worthington. Des. 78,427; Apr. 30.  
Radiocabinet or similar article. E. Worthington. Des. 80,157; Dec. 17.  
Radiocabinet or the like. A. Véricel. Des. 77,444; Jan. 8.  
Radiocabinet or the like. A. Véricel. Des. 77,927; Mar. 5.  
Radiocabinet or the like. A. Véricel. Des. 80,202; Dec. 24.  
Radiocabinet, Wired. T. R. Barnes. 1,719,284; July 2.  
Radiocircuit. B. C. Comfort. 1,738,232; Dec. 3.  
Radiocircuits. W. Medved. 1,697,391; Jan. 1.  
Radiocircuits. W. Wurst. 1,697,943; Jan. 8.  
Radiocircuits, Selector and automatic tuner for. E. E. Burns and T. Cohen. 1,700,281-2; Jan. 29.  
Radio clock. F. E. Bersche. 1,703,258; Feb. 26.  
Radio coil. N. Medved. 1,727,932; Sept. 10.  
Radiocoils, Adjustable. N. Medved. 1,701,330; Feb. 5.  
Radio communication, Method of and arrangement for stray elimination in. J. Weinberger. 1,723,391; Aug. 6.  
Radio communication, Method of and arrangement for stray elimination in. J. Weinberger. 1,738,337; Dec. 3.  
Radio communication system. R. B. Bryant. 1,703,719; Feb. 26.  
Radio communication system, Duplex. E. L. White. 1,735,344; Nov. 12.  
Radio communication, System of. L. A. Hazeltine. 1,697,650; Jan. 1.  
Radio compass compensator. F. A. Kolster. 1,725,147; Aug. 20.  
Radio condenser. J. J. Aurynger. 1,735,416; Nov. 12.  
Radio condenser. L. A. Brand. 1,737,074; Nov. 26.  
Radio condenser. P. Zarate, jr. 1,740,850; Dec. 24.  
Radio condenser, Selective. D. R. Wells. 1,726,785; Sept. 3.  
Radio condenser system and adjusting the same. A. S. Blatterman. 1,713,464; May 14.  
Radio crystal detector. E. A. McMurtry. 1,711,174; Apr. 30.  
Radiodetector. H. P. Donle. 1,720,824; July 16.  
Radio detector system. R. W. Camfield. 1,704,497; Mar. 5.  
Radio dial control. H. A. Ziola. 1,734,068; Nov. 5.  
Radio dial or scale. H. F. Elliott. 1,699,959; Jan. 22.  
Radiodial, Vernier. B. J. Jacobson and L. C. Martin. 1,739,310; Dec. 10.  
Radio direction and position finder. P. R. Bassett. 1,715,270; May 28.  
Radio direction finder, Hertzian compass, and the like. H. Busignies. 1,741,282; Dec. 31.  
Radio distributing systems, Frequency control for. E. E. Clement. 1,730,407; Oct. 8.  
Radio distribution, Trunking system for. E. E. Clement. 1,706,378; Mar. 19.  
Radio distribution, Trunking system for. E. E. Clement. 1,706,381; Mar. 19.  
Radio electric antennæ, Ground connection. H. Chireix. 1,697,948; Jan. 8.  
Radio equipment. R. E. Appel. 1,716,409; June 11.  
Radio frequency amplification circuits. A. Winther. 1,700,393; Jan. 29.  
Radio frequency amplification system. F. J. Bullivant. 1,730,994; Oct. 8.  
Radio frequency amplification system. V. H. Laughter. 1,731,012-13; Oct. 8.  
Radio frequency amplifier, Coupling. A. S. Blatterman. 1,713,462; May 14.  
Radio frequency amplifying system. L. L. Jones. 1,713,132; May 14.  
Radio frequency amplifying system, Tuned. L. L. Jones. 1,712,214; May 7.  
Radio frequency communication system. L. Bégin. 1,700,580; Jan. 29.  
Radio frequency set. J. C. Snell. 1,714,326; May 21.  
Radio frequency transformer. R. W. Osborne. 1,719,995; July 9.  
Radiogoniometer, Balancing. E. Bellini. 1,698,837; Jan. 15.  
Radio goniometer. E. Bellini. 1,723,461; Aug. 6.  
Radio ground. K. L. Stahl. 1,713,721; May 21.  
Radiohorn. D. Kirk. 1,714,510; May 28.  
Radioindicator. C. F. Nehrk. 1,713,001; May 14.  
Radio instrument controlling device. A. Bonnefont. 1,715,736; June 4.  
Radio installation for moving vehicles. H. Walters and R. A. Hoerman. 1,732,451; Oct. 22.  
Radio instrument dial. H. H. Heller. 1,708,092; Apr. 9.  
Radio logging and indicating device. D. Schwartz. 1,734,694; Nov. 5.  
Radio loud-speaker. G. M. Barcy. Des. 78,430-1; May 7.  
Radio loud speaker. F. Glos. 1,967,642; Jan. 1.  
Radio loud speaker. J. Kersten. 1,704,976; Mar. 12.  
Radio loud-speaker. J. Kersten. 1,706,453; Mar. 26.  
Radio loud-speaker. P. P. Schroeder. 1,721,794; July 23.  
Radio loud-speaker. P. P. Schroeder. 1,739,615; Dec. 17.  
Radio loud-speaker construction. J. Kersten. 1,704,977; Mar. 12.  
Radio loud speaker or the like. A. Véricel. Des. 77,797; Feb. 19.  
Radio loud speaker or the like. A. Véricel. Des. 77,991; Mar. 12.  
Radio loud-speaker or the like. A. Véricel. Des. 80,200-1; Dec. 24.  
Radio movie receiver. C. F. Jenkins. 1,697,527; Jan. 1.  
Radio phonograph loud speaker, Combination. A. Wiehl. 1,703,975; Mar. 5.  
Radioplug. A. J. Carter. 1,726,692; Sept. 3.  
Radio power pack. I. Kitsee. 1,720,221; July 9.  
Radio power-supply apparatus. P. E. Edelman. 1,699,523; Jan. 22.  
Radio printing-telegraph system. R. S. Ohl. 1,737,672; Dec. 3.  
Radio printing-telegraph system, Multichannel. R. S. Ohl. 1,737,671; Dec. 3.  
Radioprograms, System of reception and reproduction of. K. Parker. 1,741,430; Dec. 31.  
Radioreceiver. N. Ashbridge. 1,725,949; Aug. 27.  
Radioreceiver. W. H. T. Holden. 1,726,622; Sept. 3.  
Radioreceiver. M. Du Perow. 1,697,659; Jan. 1.  
Radioreceiver. M. J. Jelen. 1,722,631; July 30.  
Radioreceiver. F. D. Pearne. 1,711,745; May 7.  
Radioreceiver. R. H. Ranger. 1,723,440; Aug. 6.  
Radio receiver. W. Schaffer. 1,735,185; Nov. 12.  
Radioreceiver and phonograph reproducer and recorder, Combined. A. N. Goldsmith. 1,724,191; Aug. 13.  
Radioreceiver, Balanced. J. D. R. Freed. 1,727,103; Sept. 3.  
Radio receiver cabinet. W. D. Teague. 77,513-14; Jan. 15.  
Radio receiver control. W. H. Grinditch. 1,718,138; June 18.  
Radio receiver control mechanism. R. Martini. 1,735,972; Nov. 19.  
Radioreceiver, Escutcheon plate for. F. C. Burton. Des. 79,953; Nov. 26.  
Radio receiver, Multiple-channel. L. Espenschied and D. K. Martin. 1,709,009; Apr. 16.  
Radioreceiver, Operating a tuned. A. S. Blatterman. 1,713,463; May 14.  
Radioreceivers, Static eliminator for. W. E. Grimm. 1,728,057; Sept. 10.  
Radio receiving apparatus. H. D. Bartlett. 1,734,553; Nov. 5.  
Radio receiving apparatus. L. de Forest. 1,720,544; July 9.



- Radio receiving apparatus. A. N. Goldsmith. 1,708,539; Apr. 9.
- Radio receiving apparatus. H. M. Hill. 1,705,522; Mar. 19.
- Radio receiving apparatus. R. V. Judson, C. C. Davis, and E. O. Klemm. 1,738,172; Dec. 3.
- Radio receiving apparatus. M. J. Love. 1,708,768; Apr. 9.
- Radio receiving apparatus. L. Q. Slocumb. 1,707,645; Apr. 2.
- Radio receiving apparatus. P. W. Williams. 1,702,067; Feb. 12.
- Radio receiving apparatus. Interference-reducing means for. R. H. Ranger. 1,738,392; Dec. 3.
- Radio receiving apparatus, Portable. J. H. Neal. 1,712,158; May 7.
- Radio receiving circuit. L. M. Clement. 1,709,061; Apr. 16.
- Radio receiving circuit. A. J. Forbes. 1,714,014; May 21.
- Radio receiving circuit. H. T. Friis and A. G. Jensen. 1,727,010; Sept. 3.
- Radio receiving circuit. D. R. Lovejoy. 1,725,360; Aug. 20.
- Radio receiving circuit. R. K. Potter. 1,739,520; Dec. 17.
- Radio receiving circuit. C. K. Schenck. 1,700,652; Jan. 29.
- Radio receiving circuit. N. H. Slaughter. 1,717,174; June 11.
- Radio receiving circuits, Tuned. D. R. Lovejoy. 1,723,566; Aug. 6.
- Radio receiving device. G. L. Beers. 1,730,874; Oct. 8.
- Radio receiving set. P. G. Andres. 1,704,380; Mar. 5.
- Radio receiving set. A. Weaver and F. H. Chase. 1,724,057; Aug. 13.
- Radio receiving sets, Output control for. R. Seliger. 1,699,028; Jan. 15.
- Radio receiving sets, Panel for. C. L. Marti. Des. 78,959; July 9.
- Radio receiving system. E. F. W. Alexanderson. 1,723,907; Aug. 6.
- Radio receiving system. G. von Arco. 1,723,451; Aug. 6.
- Radio receiving system. M. C. Batsel. 1,709,651; Apr. 16.
- Radio receiving system. G. L. Beers. 1,700,607; Jan. 29.
- Radio receiving system. R. Bown. 1,697,042; Jan. 1.
- Radio receiving system. S. Cabot. 1,725,615; Aug. 20.
- Radio receiving system. J. R. Carson. 1,734,112; Nov. 5.
- Radio receiving system. R. E. De Land. 1,721,146; July 16.
- Radio receiving system. A. J. Eaves. 1,711,636; May 7.
- Radio receiving system. H. F. Elliott. 1,737,078; Nov. 26.
- Radio receiving system. A. N. Goldsmith. 1,717,201; June 11.
- Radio receiving system. F. E. Halloran. 1,719,178; July 2.
- Radio receiving system. A. E. Harper. 1,724,019; Aug. 13.
- Radio receiving system. L. D. Kellogg. 1,727,123; Sept. 3.
- Radio receiving system. F. A. Kolster. 1,716,352; June 4.
- Radio receiving system. R. E. Lacault. 1,740,946; Dec. 24.
- Radio receiving system. V. D. Landon. 1,702,445; Feb. 19.
- Radio receiving system. L. Levy. 1,705,512; Mar. 12.
- Radio receiving system. R. H. Ranger. 1,712,280; May 7.
- Radio receiving system. R. Ross. 1,720,150; July 9.
- Radio receiving system and unit. H. E. Burket. 1,700,625; Jan. 29.
- Radio receiving systems, Connecting device for. W. Dubilier. 1,717,701; June 18.
- Radio receiving systems, Method and apparatus for remotely controlling. W. T. Powell. 1,738,262; Dec. 3.
- Radio reception apparatus, Coin-controlled. W. N. Olsem. 1,702,411; Feb. 19.
- Radio reception device. C. Horton. 1,702,260; Feb. 19.
- Radioreception, Method and apparatus for. L. M. Dieterich. 1,707,713; Apr. 2.
- Radioreception, Method of and apparatus for. W. M. Bruce, Jr. 1,737,407; Nov. 26.
- Radiorepeater. R. Bown. 1,698,777; Jan. 15.
- Radioreproducer. L. C. Baumann. 1,741,274; Dec. 31.
- Radioreproducer. W. L. Eckhardt. 1,706,999; Mar. 26.
- Radio reproducing attachment for pianos. J. M. Coote and C. E. Pryor. 1,720,542; July 9.
- Radio schedule indicator. C. B. Lax. 1,707,865; Apr. 2.
- Radio set connector. M. Aldam. 1,703,651; Feb. 26.
- Radio signal apparatus. J. A. Willoughby and P. D. Lowe. 1,708,071; Apr. 9.
- Radio signal volume control. H. F. Elliott. 1,737,079; Nov. 26.
- Radiosignaling. M. Delavallée. 1,726,474; Aug. 27.
- Radiosignaling. M. Latour. 1,710,170; Apr. 23.
- Radio signaling apparatus. G. H. Clark. 1,712,026; May 7.
- Radio signaling apparatus. E. L. Powell. 1,701,336; Feb. 5.
- Radio signaling circuit. W. D. Loughlin. 1,736,268; Nov. 19.
- Radio signaling means. D. G. Little and N. C. Defibaugh. 1,707,271; Apr. 2.
- Radio signaling system. M. C. Batsel. 1,699,733; Jan. 22.
- Radio signaling system. E. Bellini. 1,739,941; Dec. 17.
- Radio signaling system. V. M. Graham. 1,721,992; July 23.
- Radio signaling system. B. S. Ohl. 1,699,567; Jan. 22.
- Radio signaling system. R. S. Ohl. 1,735,053; Nov. 12.
- Radio signaling system. W. T. Powell. 1,701,591; Feb. 12.
- Radio signaling system. H. J. Round. 1,712,051; May 7.
- Radio signaling system, Antiinterference. H. J. J. M. de R. de Bellescize. 1,722,789; July 30.
- Radio signaling system, Superheterodyne. G. L. Beers. 1,703,078; Feb. 19.
- Radiosignals, Comparing and selecting. R. H. Ranger. 1,740,833; Dec. 24.
- Radiosignals, Method and system for constant-frequency beat reception of. F. Schröter. 1,735,134; Nov. 12.
- Radiosignals, Process and apparatus for increasing the strength of. C. C. Chapin. 1,726,806; Sept. 3.
- Radiosignals, Receiving. G. M. Wright. 1,712,061; May 7.
- Radiosignals, Reduction of fading of. D. K. Martin. 1,719,845; July 9.
- Radiosignals, Reduction of fading of. D. K. Martin. 1,719,896; July 9.
- Radiosocket. R. S. Simeral. 1,721,474; July 16.
- Radio socket and tube. A. J. Knill. 1,701,571; Feb. 12.
- Radiospeaker. A. A. Kent. 1,705,925; Mar. 19.
- Radio speaker baffle unit or similar article. G. J. Koran. Des. 79,722; Oct. 29.
- Radio speaker diaphragm. F. E. Greswold. 1,738,575; Dec. 10.
- Radiospeaking and electro-light fixture, Combination. R. H. Seer. 1,707,686; Apr. 2.
- Radio static-eliminating apparatus. C. H. Seymour. 1,719,087; July 2.
- Radio static-eliminating apparatus. J. E. Turner. 1,698,380; Jan. 8.
- Radio support panel. E. G. Danielson. 1,713,951; May 21.
- Radio system. F. B. Falknor. 1,698,014; Jan. 8.
- Radio system and method of radio reception, Multichannel. E. L. Chaffee. 1,717,662; June 18.
- Radio system, Multiplex. R. A. Heising. 1,724,922; Aug. 20.
- Radio system, Superheterodyne. G. L. Beers. 1,703,079; Feb. 19.
- Radio system, Wired. A. H. Taylor. 1,739,773; Dec. 17.
- Radio systems, Carrier-amplitude control in. W. H. T. Holden. 1,706,490; Mar. 26.
- Radio table. A. Gommessen. Des. 79,651; Oct. 22.
- Radiotable. A. Gommessen. Des. 79,959-62; Nov. 26.
- Radiotable. J. L. Sterling. Des. 78,989; July 16.
- Radio telegraph system. L. R. Schmitt. 1,705,211; Mar. 12.
- Radio telephone system. E. E. Clement. 1,706,380; Mar. 19.
- Radio transmission and reception, Exclusive. F. K. Vreeland. 1,740,964; Dec. 24.
- Radio transmission system. L. C. F. Horle. 1,721,627; July 23.
- Radio transmission system, Duplex. F. Conrad. 1,732,741; Oct. 22.
- Radio transmitting circuit. E. L. Nelson and A. A. Oswald. 1,710,235; Apr. 23.
- Radio transmitting system. F. B. Falknor. 1,702,470; Feb. 19.
- Radio transmitting system, Directive. C. W. Rice. 1,740,370-1; Dec. 17.
- Radio transmitting system, Multiplex. D. K. Martin. 1,721,567; July 23.
- Radiotube. E. A. Kuen. 1,716,645; June 11.
- Radiotube. E. A. Kuen and C. L. Patterson. 1,722,002; July 23.
- Radio tube case. E. Weber. 1,704,414; Mar. 5.
- Radiotubes and the like, Stem-making machine for. C. Eisler. 1,741,016; Dec. 24.
- Radio tube socket. E. Danielson. 1,719,288; July 2.
- Radiotubes, Plate for. A. Loppacker. 1,700,945; Feb. 5.
- Radio tuning device. R. Alden. 1,703,331; Feb. 26.
- Radio tuning device. R. M. Wise. 1,703,563; Feb. 26.
- Radio tuning device, Variable. C. Smith. 1,737,063; Nov. 26.
- Radio tuning devices, Single-control mechanism for. E. A. Kuen. 1,700,940; Feb. 5.
- Radio tuning system. F. B. Falknor. 1,710,768; Apr. 30.
- Radio tuning system. A. Roth. 1,724,371; Aug. 13.
- Radio vacuum-tube construction. C. E. Fitch. 1,709,393; Apr. 16.
- Radiotelevision and telecinematography. E. Belin. 1,714,154; May 21.
- Radio wave trap. J. J. McDonald. 1,736,614; Nov. 19.
- Radium-activating device. H. R. Zimmer. Des. 77,452; Jan. 8.
- Raft, Logging. B. E. Roberson. 1,724,422; Aug. 13.
- Raft of floating pontoons. A. Smith. 1,723,213; Aug. 6.
- Raft, Trolling. H. Chitty. 1,740,002; Dec. 17.
- Rags with sulphur dioxide, Stripping. F. W. Binns. 1,741,496; Dec. 31.
- Rail. A. Zrazik. 1,735,227; Nov. 12.
- Rail anchorage, Resilient. I. O. Mall. 1,739,158; Dec. 10.
- Rail and outer panel construction, Guard. J. H. Clark. 1,710,205-6; Apr. 23.
- Rail and wheel-flange lubricator. R. E. Weedon and J. C. Weedon. 1,701,549; Feb. 12.
- Rail-bearer structure for high-speed suspended railways. F. Kruckenberg and C. Stedefeld. 1,734,865; Nov. 5.
- Rail bender. P. Valpiani. 1,701,711; Feb. 12.
- Rail bond. D. L. Crawford. 1,715,190; May 28.
- Rail bond. E. M. Deems. 1,739,292; Dec. 10.
- Rail bond. E. M. Deems and W. H. B. Lavarack. 1,739,293; Dec. 10.
- Rail bond. H. H. Febrey. 1,701,104; Feb. 5.



- Rail bond. H. H. Febrey. 1,712,426; May 7.  
 Rail bond. W. F. Hart. 1,710,873; Apr. 30.  
 Rail bond. F. H. Neff. 1,713,912; May 21.  
 Rail bond. P. P. Pipes. 1,702,130; Feb. 12.  
 Rail brace. J. G. Mueller. 1,702,390; Feb. 19.  
 Rail brace. J. G. Mueller. 1,732,099-100; Oct. 22.  
 Rail brace. J. G. Mueller. 1,732,766; Oct. 22.  
 Rail brace. T. G. Stiles. 1,713,060; May 14.  
 Rail brace. J. Sutinen. 1,715,434; June 4.  
 Rail brake for railway cars. T. Elliott. 1,724,266; Aug. 13.  
 Rail Chair. J. R. Snyder. 1,698,109; Jan. 8.  
 Rail chair and splice plate. W. W. Bateman. 1,701,554; Feb. 12.  
 Rail chair or tie. G. C. Voit. 1,715,107; May 28.  
 Rail clamp. E. Lynch. 1,729,077; Sept. 24.  
 Rail clamp and brace. W. Leak. 1,740,359; Dec. 17.  
 Rail clamp for shaping machines. W. F. Zimmermann. 1,735,370; Nov. 12.  
 Rail-clamping mechanism for railway cars. E. E. Peterson. 1,721,035; July 16.  
 Rail-connecting system for railroads and the like. C. A. Henry. 1,719,011; July 2.  
 Rail connection. B. Percich. 1,702,668; Feb. 19.  
 Rail crossing. E. L. Fairbanks. 1,729,098; Sept. 24.  
 Rail fastening. J. Mortka. 1,731,258; Oct. 15.  
 Rail-fastening device. E. C. Agan. 1,715,345; June 4.  
 Rail filler. A. C. Fischer. 1,730,068; Oct. 1.  
 Rail filler, Preformed. A. C. Fischer. 1,731,336; Oct. 15.  
 Rail for freight cars, Top. W. E. Wine. 1,703,757; Feb. 26.  
 Rail guard. Third. J. Holzel. 1,739,591; Dec. 17.  
 Rail, Guide. G. M. Benjamin. 1,720,202; July 9.  
 Rail joint. E. W. Caruthers. 1,707,048; Mar. 26.  
 Rail joint. E. W. Caruthers. 1,735,347; Nov. 12.  
 Rail joint. W. E. Everett. 1,711,880; May 7.  
 Rail joint. A. F. Fifield. 1,702,077; Feb. 12.  
 Rail joint. R. L. Frye. 1,702,045; Feb. 12.  
 Rail joint. O. A. Hansen. 1,724,581; Aug. 13.  
 Rail joint. H. B. Hodgson. 1,723,421; Aug. 6.  
 Rail joint. R. E. Keough. 1,707,434; Apr. 2.  
 Rail joint. R. E. Keough. 1,707,438; Apr. 2.  
 Rail joint. F. C. Kronauer. 1,718,366; June 25.  
 Rail joint. J. A. McGrew. 1,721,784; July 23.  
 Rail joint. J. A. McGrew. 1,738,075; Dec. 3.  
 Rail joint. D. B. Moisselle. 1,720,426; July 9.  
 Rail joint. H. E. Muchnic. 1,709,143; Apr. 16.  
 Rail joint. J. P. Northey. 1,737,669; Dec. 3.  
 Rail joint. J. K. Northrup. 1,714,616; May 28.  
 Rail joint. J. B. Ruettimann. 1,735,586; Nov. 12.  
 Rail joint. R. W. Schultz. 1,725,105; Aug. 20.  
 Rail joint. W. H. Smith. 1,731,596; Oct. 15.  
 Rail joint. M. Thompson. 1,713,410; May 14.  
 Rail joint and lock nut. Combined. W. H. Rex and F. P. Woodward. 1,738,116; Dec. 3.  
 Rail joint and protector. F. Crismor and M. Miller. 1,722,901; July 30.  
 Rail joint bar, Railway. G. W. Muller. 1,723,248; Aug. 6.  
 Rail joint, Expansion. V. D. Walker and P. Kaplan. 1,710,557; Apr. 23.  
 Rail joint for permanent-way rails. E. A. Byrde. 1,722,894; July 30.  
 Rail joint, Insulated. N. E. Salsich. 1,736,328; Nov. 19.  
 Rail joint, Interlocking. J. M. Heasley. 1,736,652; Nov. 19.  
 Rail joint, Load-tightening low-tension bolt. G. W. Hunt. 1,712,349; May 7.  
 Rail-joint lock. S. Halapin. 1,735,967; Nov. 19.  
 Rail joint, Railway. J. A. Graham. 1,707,355; Apr. 2.  
 Rail-joint shim. R. E. Keough. 1,707,435; Apr. 2.  
 Rail-joint shim. R. E. Keough. 1,707,437; Apr. 2.  
 Rail joints, Construction for insulated. E. F. Schermerhorn. 1,713,401; May 14.  
 Rail joints, Lightened construction for. C. A. Disbrow. 1,713,425; May 14.  
 Rail joints, Wear-compensating means for. R. E. Keough. 1,707,436; Apr. 2.  
 Rail lock for bedsteads, Side and end. F. Kusterle. 1,715,070; May 28.  
 Rail lock, Switch. W. H. B. Reynolds and E. Deane. 1,699,716; Jan. 22.  
 Rail, Railway-track. M. Laurello and J. Sorbs. 1,728,798; Sept. 17.  
 Rail-splice bar and rail joint. E. W. Caruthers. 1,735,348; Nov. 12.  
 Rail-splicing device. C. H. Williams. 1,699,216; Jan. 15.  
 Rail stop. T. Smart. 1,726,457; Aug. 27.  
 Rail support, Safety guard. J. H. Ramsey. 1,718,875; June 25.  
 Rail-supporting means. J. E. Langford, jr. 1,705,929; Mar. 19.  
 Rail-supporting structure, Railroad. N. L. Tilley. 1,711,186; Apr. 30.  
 Rail tie and fastening means. L. H. Harrison. 1,705,861; Mar. 19.  
 Rail-tie connection. W. A. Hunt. 1,707,615; Apr. 2.  
 Rail-tying device. S. W. Finch. 1,741,151; Dec. 31.  
 Railroad. H. R. Rosenbaum. 1,740,201; Dec. 17.  
 Railroad coach, Combination day and sleeping. A. E. Hunt. 1,711,317; Apr. 30.  
 Railroad crossing. L. T. Botto. 1,703,716; Feb. 26.  
 Railroad crossing. A. F. Emmons. 1,731,301; Oct. 15.  
 Railroad crossing. O. R. Pearson and C. V. Anderson. 1,710,080; Apr. 23.  
 Railroad crossing. E. J. Sexton. 1,737,482; Nov. 26.  
 Railroad-crossing gate. E. L. Irsik. 1,740,815; Dec. 24.  
 Railroad-crossing gate and signal, Automatic. J. Kwiatkowski and S. Skapski. 1,697,728; Jan. 1.  
 Railroad-crossing system. S. A. Orr. 1,706,318; Mar. 19.  
 Railroad frog and switch thawing device. H. Adams. 1,718,271; June 25.  
 Railroad frogs, Producing fillers for. D. E. Anderson. 1,740,720; Dec. 24.  
 Railroad gate, Automatic. G. Guarnieri. 1,710,537; Apr. 23.  
 Railroad gate, Automatic electromagnetic. A. Tatioussian. 1,708,640; Apr. 9.  
 Railroad grade crossing. M. A. Wooldridge. 1,707,245; Apr. 2.  
 Railroad-grade-crossing unit. G. H. Wolfgram. 1,730,709; Oct. 8.  
 Railroad joint. C. A. Hunt. 1,715,837; June 4.  
 Railroad joint. C. E. Skaggs and B. E. Logan. 1,713,783; May 21.  
 Railroad-platform bridge. A. E. Zoller and C. L. Fulghum. 1,740,937; Dec. 24.  
 Railroad rail. S. Lo Monaco. 1,719,986; July 9.  
 Railroad rail. F. L. Voegtly. 1,722,720; July 30.  
 Railroad signal. F. A. Miller. 1,721,229; July 16.  
 Railroad spreader. J. F. Curtis. 1,732,792; Oct. 22.  
 Railroad switch, Automatic. L. Stanko. 1,701,282; Feb. 5.  
 Railroad switch, Automatic. T. Yamakishi. 1,700,249; Jan. 29.  
 Railroad tie. L. T. Botto. 1,712,545; May 14.  
 Railroad tie. G. S. Davy and R. S. Vincent. 1,719,172; July 2.  
 Railroad tie. G. C. Habicht. 1,720,473; July 9.  
 Railroad tie. B. Haskell. 1,725,348; Aug. 20.  
 Railroad tie. W. R. Hewitt. 1,700,263; Jan. 29.  
 Railroad tie. J. Sutinen. 1,697,935; Jan. 8.  
 Railroad-tie-adzing machine. J. J. Pierce. 1,727,557; Sept. 10.  
 Railroad-tie clamp for street railways. L. J. Fenton. 1,709,343; Apr. 16.  
 Railroad-track-securing device. L. V. H. Nouaille Degorce. 1,719,536; July 2.  
 Railroads, Permanent way for. A. Wirth. 1,721,538; July 23.  
 Railroads, Relining curves in. F. S. Kimball. 1,713,438; May 14.  
 Railroads, Train-control system for. B. C. Leake. 1,706,856; Mar. 26.  
 Rails and the like, Welding railway. J. H. Deppeler. 1,721,548; July 23.  
 Rails, Anticreeping device for. C. D. Young. 1,696,993; Jan. 1.  
 Rails, Arrangement for securing railway. F. W. Weber. 1,729,465; Sept. 24.  
 Rails for Fourdrinier paper-making machines. A. H. Standley and G. D. Kilberry. 1,709,754; Apr. 16.  
 Rails to metal sleepers, Securing. H. P. J. Germay. 1,712,384; May 7.  
 Railway, Amusement. L. S. Cassidy and M. Rempfer. 1,740,496; Dec. 24.  
 Railway axle lighting equipment, Direct drive for. J. Morgan, W. E. Dickinson, and W. J. Bitterlick. 1,724,502; Aug. 13.  
 Railway booster. F. R. Peters. 1,731,437; Oct. 15.  
 Railway brake. C. J. Nash. 1,723,059; Aug. 6.  
 Railway brakes, Holding means for. H. C. Smith. 1,699,212; Jan. 15.  
 Railway cab signaling and train-control system. P. R. Deschere. 1,710,500; Apr. 23.  
 Railway coaches, Upper buffing mechanism for the diaphragm face plates of vestibule. O. L. Link. 1,704,394; Mar. 5.  
 Railway connector head, Guided. E. A. Robinson. 1,715,787; June 4.  
 Railway control system. N. E. North. 1,699,748; Jan. 22.  
 Railway crossing. H. E. Muchnic. Re17,190; Jan. 8.  
 Railway crossing. J. F. Rasor. 1,735,337; Nov. 12.  
 Railway crossing. J. F. Zimmerman. 1,735,626; Nov. 12.  
 Railway-crossing construction. H. E. Muchnic. 1,725,411; Aug. 20.  
 Railway-crossing signal. W. A. Blankenship. 1,733,717; Oct. 29.  
 Railway-crossing signal. W. R. Davis. 1,710,408; Apr. 23.  
 Railway-crossing signal. O. A. Reitz. 1,701,011; Feb. 5.  
 Railway draft appliance. W. McConway, jr. 1,712,672; May 14.  
 Railway frog. A. L. Vissat. 1,697,152; Jan. 1.  
 Railway gate. W. A. Cook. 1,716,340; June 4.  
 Railway gate. C. H. Gage and A. E. Searles. 1,709,344; Apr. 16.  
 Railway gate, Safety. J. F. Burch and A. H. Morton. 1,714,074; May 21.  
 Railway guide. G. R. Luginbuhl. Re17,486; Nov. 12.  
 Railway, High-speed suspended. F. Kruckenberg and W. Black. 1,727,070; Sept. 3.  
 Railway highway crossing. O. F. Jensen. Re17,201; Jan. 29.  
 Railway-journal-box protector. C. J. Fenske. 1,724,919; Aug. 20.  
 Railway or like passenger vehicle. R. T. Glascoedine. 1,731,852; Oct. 15.  
 Railway, Overhead. J. T. Hobberger. 1,723,352; Aug. 6.  
 Railway-roadbed construction. F. H. Alfred and P. Chipman. 1,716,911; June 11.  
 Railway rolling stock to prevent rail corrugation, Operating. E. O. Ackerman. 1,718,100; June 18.



- Railway signal. J. Klimala. 1,739,842; Dec. 17.  
 Railway signal. C. Z. Miller. 1,714,612; May 28.  
 Railway signaling. C. W. Bell. 1,736,388; Nov. 19.  
 Railway signaling. L. V. Lewis. 1,710,497; Apr. 23.  
 Railway signaling. L. E. Spray. 1,701,702; Feb. 12.  
 Railway system, Electric. A. Wichert. 1,704,958; Mar. 12.  
 Railway structure. C. J. Griffith. 1,739,636; Dec. 17.  
 Railway switch. O. W. Andersen. 1,710,335; Apr. 23.  
 Railway switch. O. W. Andersen. 1,710,336; Apr. 23.  
 Railway switch. C. E. Doty and M. Bimonte. 1,729,034; Sept. 24.  
 Railway switch. S. C. Fiddymant. 1,724,571; Aug. 13.  
 Railway switch. O. L. Wertman and P. W. Ratcliff. 1,716,748; June 11.  
 Railway-switch-actuating mechanism. E. G. Wesson. 1,724,442; Aug. 13.  
 Railway-switch-point protector. W. J. Trego. 1,737,984; Dec. 3.  
 Railway-switch stand. E. F. Salisbury. 1,714,450; May 21.  
 Railway switching device. P. H. Crago and G. D. Rabun. 1,735,954; Nov. 19.  
 Railway switches, Apparatus for controlling. H. S. Loomis. 1,711,570; May 7.  
 Railway tie. N. F. Crabill. 1,701,442; Feb. 5.  
 Railway tie. F. K. Schultz. 1,717,267; June 11.  
 Railway tie. R. J. Updike. 1,712,532; May 14.  
 Railway tie. W. C. Yeomans. 1,700,963; Feb. 5.  
 Railway tie. W. C. Yeomans. 1,718,098; June 18.  
 Railway tie and fastening, Metal. D. O. Snyder. 1,701,247; Feb. 5.  
 Railway tie, Metallic. H. D. Robinson. 1,718,806; June 25.  
 Railway track. W. Whaley. 1,735,944; Nov. 19.  
 Railway-track member, Composite. L. C. Ryan. 1,700,810; Feb. 5.  
 Railway vehicles, Increasing the rail grip of. J. Bertschmann. 1,730,717; Oct. 8.  
 Railway water column. J. T. McGarry. 1,718,245-6; June 25.  
 Railways or tramways, Fishplate for. S. S. Wrightson and C. R. Matthews. 1,735,194; Nov. 12.  
 Railways, tramways, and road transport vehicles, Rolling stock of. P. Algrain. 1,715,264; May 28.  
 Railways, tramways, or road transport, Rolling stock of. P. Algrain. 1,736,690; Nov. 19.  
 Raincoat. H. P. Luhn. 1,710,778; Apr. 30.  
 Raincoat. A. Marquist. 1,740,614; Dec. 24.  
 Raincoats. J. A. Asselin. 1,720,114; July 9.  
 Raising device for portable conveyers. H. Roster. 1,698,024; Jan. 8.  
 Raising submerged objects, Device for. J. M. Boscardin. 1,728,470; Sept. 17.  
 Raising sunken vessels, Apparatus for. W. N. Davis. 1,741,681; Dec. 31.  
 Rake: See—  
   Broom rake. Garden rake.  
   Brush rake. Lawn rake.  
   Collapsible rake. Side-delivery rake.  
   Cultivator rake. Tractor sweep rake.  
   Dredge rake.  
 Rake. W. H. Best. 1,732,350; Oct. 22.  
 Rake. J. N. Cramer. 1,705,441; Mar. 12.  
 Rake. C. J. Roquain. 1,706,547; Mar. 26.  
 Rake and hoe, Combined. A. F. Knott. 1,734,861; Nov. 5.  
 Rake attachment. E. P. McFadden. 1,715,613; June 4.  
 Ram-box cap, Two-piece. C. E. Harrison. 1,734,854; Nov. 5.  
 Rammer, Cope. F. K. Vial and T. Fitzsimmons. 1,710,523; Apr. 23.  
 Rammer for guns. Semiautomatic. T. A. Conlon. 1,705,659; Mar. 19.  
 Ramming machine. A. A. Landon. 1,711,954; May 7.  
 Range. E. Karr. 1,703,343; Feb. 26.  
 Range. P. Madsen. 1,703,315; Feb. 26.  
 Range. A. H. Moecker. Des. 79,932; Nov. 19.  
 Range. H. Moecker, jr., T. Thompson, and O. Hammermeister. 1,699,403; Jan. 15.  
 Range. G. E. Pickup. 1,742,008; Dec. 31.  
 Range. A. Stockstrom and A. H. Brodbeck. Des. 79,676; Oct. 22.  
 Range and deflection setting mechanism. R. J. H. Powell, jr. 1,707,368; Apr. 2.  
 Range-body construction, Electric. H. A. Ziola. 1,699,038; Jan. 15.  
 Range cock, Gas. P. S. Harper. 1,707,007; Mar. 26.  
 Range construction. C. Herwig, jr., and W. J. Spielman. 1,734,674; Nov. 5.  
 Range construction. M. G. Klemme. 1,706,454; Mar. 26.  
 Range construction. F. W. Rogers. 1,700,597; Jan. 29.  
 Range construction, Electric. F. F. Forshee. 1,709,664; Apr. 16.  
 Range, Cooking. R. H. Cooper. Des. 79,954; Nov. 26.  
 Range, Electric. R. L. MacInnes. 1,706,122; Mar. 19.  
 Range, Electric. A. T. Smith. 1,721,191; July 16.  
 Range, Electric accumulating. M. Hedlund. 1,715,288; May 28.  
 Range finder. K. Petschenig. 1,718,071; June 18.  
 Range finder, height finder, and the like. A. Barr, W. Stroud, and C. D. Macgill. 1,710,641; Apr. 23.  
 Range-finding instrument. J. T. Zak. 1,717,595-6; June 18.  
 Range, Gas. O. A. Hanson. 1,708,298; Apr. 9.  
 Range, Gas. H. Moecker, jr., and T. Thompson. 1,735,779; Nov. 12.  
 Range, Gas. W. A. Smith. 1,741,885; Dec. 31.  
 Range, Gas. W. F. Traub. 1,723,667; Aug. 6.  
 Range, Gas. S. A. Wilde. 1,736,473; Nov. 19.  
 Range heating unit, Electric. H. A. Ziola. 1,715,690; June 4.  
 Range meter, Wide. W. Townsend. 1,700,692; Jan. 29.  
 Range or similar article. A. Stockstrom. Des. 79,110; July 30.  
 Range or stove. W. E. Claus. 1,708,469; Apr. 9.  
 Range with gridiron for children, Kitchen. C. Albert. 1,735,957; Nov. 12.  
 Ranges, Attachment for gas. F. E. Seeley. 1,710,433; Apr. 23.  
 Ranges, Combination top for gas. W. H. Myers. 1,733,899; Oct. 29.  
 Ranges, Concealed manifold and valve mechanism for gas. T. G. Brown and J. Gardner. 1,733,937; Oct. 29.  
 Ranges, Cook top structure for gas. B. C. Zuhars. 1,719,413; July 2.  
 Ranges, Cooking top for. J. A. Underwood. 1,730,986; Oct. 8.  
 Rapid-stewing pot. A. Schmidt. 1,740,205; Dec. 17.  
 Rat and mouse trap. J. H. Nicks and R. S. Crain. 1,727,666; Sept. 10.  
 Rat guard. W. A. Mead. 1,709,225; Apr. 16.  
 Rat trap. J. Barwicki. 1,723,121; Aug. 6.  
 Rat trap. C. C. Childress. 1,708,119; Apr. 9.  
 Rat trap. S. A. Hoge. 1,726,351; Aug. 27.  
 Rat trap. M. Raj. 1,723,208; Aug. 6.  
 Ratchet-drive reduction. R. O. Helgeby. 1,735,923; Nov. 19.  
 Ratchet mechanism. A. A. Mursu. 1,737,323; Nov. 26.  
 Ratchet wrench, Adjustable. W. F. Henderson. 1,733,012; Oct. 22.  
 Rate-changing mechanism. E. J. Kearney. 1,732,561; Oct. 22.  
 Rattle. B. J. Feldstein. 1,720,038; July 9.  
 Ravel stop. G. W. Goetsch. 1,707,961; Apr. 2.  
 Ray generator, Infra-red. T. L. Croom. 1,730,808; Oct. 8.  
 Rayon, Manufacture of. I. B. Merriman. 1,702,837; Feb. 19.  
 Rays of different wave lengths from a source thereof, System for selecting. C. Müller. 1,727,173; Sept. 5.  
 Razor. R. O. Barnes. 1,736,386; Nov. 19.  
 Razor. T. J. Barrett and T. L. Croom. 2,718,188; June 18.  
 Razor. H. De Haven. 1,718,219; June 25.  
 Razor. W. F. Little. 1,712,086; May 7.  
 Razor. J. Schick. 1,715,868; June 4.  
 Razor and blade magazine therefor, Safety. I. R. Allen. 1,737,696; Dec. 3.  
 Razor and blade therefor. M. B. Behrman. 1,739,280; Dec. 10.  
 Razor and stropping device, Safety. S. Segal. 1,718,008; June 18.  
 Razor blades, Making narrow-gauge. M. B. Behrman. 1,734,554; Nov. 5.  
 Razor blades, Method and blank for making safety. M. B. Behrman and R. T. Pollock. 1,738,032; Dec. 3.  
 Razor, Corn. M. B. Behrman. 1,698,045; Jan. 8.  
 Razor, Electric safety. S. W. Moon. 1,707,445; Apr. 2.  
 Razor, Electric safety. S. W. Moon. 1,738,537; Dec. 10.  
 Razor, Folding safety. M. L. Riviere. 1,720,440; July 9.  
 Razor, Safety. R. R. Boyles and E. S. Stanley. 1,732,458; Oct. 22.  
 Razor, Safety. L. H. Briggs. 1,727,392; Sept. 10.  
 Razor, Safety. E. L. Connor. 1,704,591; Mar. 5.  
 Razor, Safety. J. B. De Mesquita. 1,729,657; Oct. 1.  
 Razor, Safety. L. R. Folliard. 1,700,436; Jan. 29.  
 Razor, Safety. H. J. Gaisman. 1,709,070; Apr. 16.  
 Razor, Safety. H. J. Gaisman. 1,727,167; Sept. 3.  
 Razor, Safety. H. J. Gaisman. 1,728,728-9; Sept. 17.  
 Razor, Safety. H. J. Gaisman and C. Schumacher. 1,712,452; May 7.  
 Razor, Safety. T. C. Green. 1,735,751; Nov. 12.  
 Razor, Safety. G. F. Greene. 1,701,036; Feb. 5.  
 Razor, Safety. R. W. Gregson. 1,730,004; Oct. 1.  
 Razor, Safety. J. Habib. 1,735,388; Nov. 12.  
 Razor, Safety. W. F. Hall, jr. 1,713,079; May 14.  
 Razor, Safety. R. E. Hamilton. 1,721,113; July 16.  
 Razor, Safety. C. M. Hickey. 1,701,462; Feb. 5.  
 Razor, Safety. T. E. Hiskey. 1,725,517; Aug. 20.  
 Razor, Safety. S. C. Hope. 1,712,668; May 14.  
 Razor, Safety. S. C. Hope. 1,734,521; Nov. 5.  
 Razor, Safety. B. G. Jansson. 1,711,413; Apr. 30.  
 Razor, Safety. W. P. Keene. 1,726,570; Sept. 3.  
 Razor, Safety. T. R. McCreery. 1,724,496; Aug. 13.  
 Razor, Safety. J. T. Minahan. 1,710,548; Apr. 23.  
 Razor, Safety. J. Muros. 1,716,897; June 11.  
 Razor, Safety. J. Muros. 1,734,394; Nov. 5.  
 Razor, Safety. J. F. O'Malley. 1,719,670; July 2.  
 Razor, Safety. C. H. and E. M. Power. 1,700,951; Feb. 5.  
 Razor, Safety. J. Reid. 1,707,493; Apr. 2.  
 Razor, Safety. J. Schick. 1,724,969-70; Aug. 20.  
 Razor, Safety. J. Schick. 1,730,167; Oct. 1.  
 Razor, Safety. A. Schmidt. 1,728,008; Sept. 10.  
 Razor, Safety. C. T. Sirch. 1,719,675; July 2.  
 Razor, Safety. S. Speirs. 1,735,140; Nov. 12.  
 Razor, Safety. R. L. Tipton. 1,698,206; Jan. 8.  
 Razor, Safety. C. N. Vallon. 1,741,891; Dec. 31.  
 Razor, Safety. R. C. Warner. 1,705,163; Mar. 12.  
 Razor, Self-stropping. J. Holtzman. 1,729,722; Oct. 1.  
 Razor, Straight-handled vibratory. S. Shaler. 1,716,387; June 11.  
 Razor stop. L. H. Brooks. 1,723,762; Aug. 6.



- Razor strop and casing. C. L. Skelley. 1,736,510; Nov. 19.
- Razor-stropping means. P. Müller. 1,739,167; Dec. 10.
- Reactance device. G. C. Coutouly. 1,717,011; June 11.
- Reaction between liquids tending to form tight emulsions, Effecting. F. H. McBerty. 1,698,270; Jan. 8.
- Reaction product of a natural resin-phenolic resinous material and making same. A. Amann. 1,736,757; Nov. 19.
- Reaction-resisting device for use with power excavators. G. B. Scott. 1,719,313; July 2.
- Reactor. R. R. J. S. Hebrew. 1,740,458; Dec. 24.
- Reading and writing mechanical aid. V. R. Menon. 1,711,360; Apr. 30.
- Reading appliance. A. Ahlberg. 1,733,107; Oct. 29.
- Reading machine. B. A. Fiske. 1,707,351; Apr. 2.
- Reading rest. C. N. Morgan. 1,719,190; July 2.
- Reading stand. O. G. Durig. 1,713,376; May 14.
- Reagent feeder. M. Kraut. 1,709,987; Apr. 23.
- Reagents, Producing clarifying. J. C. Merrill and H. S. Montgomery. 1,716,828; June 11.
- Reamer. M. C. Daw. 1,740,647; Dec. 24.
- Reamer. L. E. Miller. 1,737,510; Nov. 26.
- Reamer. M. I. Seiler. 1,733,827; Oct. 29.
- Reamer. M. I. Seiler. 1,733,912; Oct. 29.
- Reamer. C. P. Wetmore. 1,730,399; Oct. 8.
- Reamer, Adjustable pilot. W. J. Kattrein. 1,712,079; May 7.
- Reamer and blade-adjusting means therefor. F. M. Enos. 1,730,495; Oct. 8.
- Reamer attachment for diestocks. R. P. Tolen and J. J. Carpenter. 1,704,353; Mar. 5.
- Reamer, Expandible. J. M. Marty, jr. 1,697,509; Jan. 1.
- Reamer, Expandible. J. P. Nestor. 1,730,231; Oct. 1.
- Reamer, Expansion. J. E. Kilzer. 1,740,986; Dec. 24.
- Reamer, Expansion. L. J. Loeffelman. 1,737,193; Nov. 26.
- Reamer, Expandive. S. L. Campbell and J. J. Santiago. 1,720,998; July 16.
- Reamer, Reversible. A. J. Berg. 1,728,590; Sept. 17.
- Reamer, Rotary changeable cutter. S. L. Campbell. 1,739,823; Dec. 17.
- Reaming machine. H. T. Snell. 1,739,424; Dec. 10.
- Reaping and binding machines, Laying-over device for. K. Leege. 1,725,873; Aug. 27.
- Rear seat, Roadster. I. J. Reuter. 1,735,908; Nov. 19.
- Receipt and hat check, Combination cash-fare. H. R. Biery. 1,724,554; Aug. 13.
- Receiver. W. N. Hunter. 1,708,064; Apr. 9.
- Receiver arrangement. S. Loewe. 1,740,864; Dec. 24.
- Receiver for vacuum-cleaner bags, Waste. G. B. Owen. 1,709,537; Apr. 16.
- Receiver sight. J. H. Redfield. 1,711,578; May 7.
- Receiving and distributing machine, Laundry. T. L. Lowe. 1,708,948; Apr. 16.
- Receiving apparatus for radio and telephone circuits. T. A. Edison. 1,702,935; Feb. 19.
- Receiving apparatus for wireless telegraphy and telephony. D. S. B. Shannon. 1,711,399; Apr. 30.
- Receiving station. C. E. Fuller. 1,733,569; Dec. 10.
- Receiving system, Broadcast. J. Weinberger. 1,725,946; Aug. 27.
- Receiving system for high-frequency electrical oscillations. M. L. Hartmann and M. C. Miller. 1,708,573; Apr. 9.
- Receiving system for radio telegraphy and telephony. F. K. Vreeland. 1,720,023; July 9.
- Receiving system, Selective and antiparasitic. Y. Marrec. 1,718,794; Jun. 25.
- Receptacle. P. Brenner. 1,713,328; May 14.
- Receptacle. B. M. Cook. 1,697,494; Jan. 1.
- Receptacle. H. B. Cranshaw. 1,719,876; July 9.
- Receptacle. L. M. Flaherty. 1,696,947; Jan. 1.
- Receptacle. J. Keppler. 1,711,949; May 7.
- Receptacle. S. Miniere. 1,714,394; May 21.
- Receptacle. M. Passman. 1,730,743-4; Oct. 8.
- Receptacle. E. Rothrock. 1,709,685; Apr. 16.
- Receptacle. R. Smye. 1,700,274; Jan. 29.
- Receptacle. H. Toppin and A. G. Stevenson. 1,710,389; Apr. 23.
- Receptacle. J. H. Willson. 1,712,864; May 14.
- Receptacle and card holder, Combination coin. G. F. Wells and R. R. Morgan. Des. 78,598; May 21.
- Receptacle and holder therefor. A. W. Derby. 1,703,516; Feb. 26.
- Receptacle and lighter mounting, Combined ash. R. De Boer. 1,702,723; Feb. 19.
- Receptacle and making same and means to seal the collapsed and closed end. I. Stanley. 1,699,549; Jan. 22.
- Receptacle and making the same. M. R. Kondolf. 1,725,525; Aug. 20.
- Receptacle and making the same. M. R. Kondolph. 1,700,937; Feb. 5.
- Receptacle and making the same, Metal. G. M. Duvall. 1,725,903; Aug. 27.
- Receptacle and pilot light, Combined. T. A. Both. 1,720,463; July 9.
- Receptacle and table, Combined. J. Nalesnik. 1,723,519; Aug. 6.
- Receptacle, Ash. S. J. Kimball. 1,740,514; Dec. 24.
- Receptacle, Attachment-plug. M. N. Russell. Des. 78,943; July 9.
- Receptacle cap. L. D. Kimmel. 1,711,232; Apr. 30.
- Receptacle carrier. H. P. Watson. 1,702,555; Feb. 19.
- Receptacle, change-giving machine, and the like, Coin. N. Straussler. 1,736,677; Nov. 19.
- Receptacle closure. W. D. Collier. 1,705,175; Mar. 12.
- Receptacle closure. W. D. Collier. 1,712,551; May 14.
- Receptacle closure. A. I. Cone. 1,725,393; Aug. 20.
- Receptacle closure, Replaceable. L. Burbank. 1,741,918-9; Dec. 31.
- Receptacle, Collapsible. S. Krimstein. 1,724,667; Aug. 13.
- Receptacle, Combined cigarette, match, and ash. C. W. Eble. Des. 77,476; Jan. 15.
- Receptacle, Condiment. J. P. Scroggs. Des. 79,106; July 30.
- Receptacle, Convenience outlet. H. E. Slade and J. B. Downing. 1,728,013; Sept. 10.
- Receptacle, Display. E. C. Pifer. 1,711,030; Apr. 30.
- Receptacle, Duplex. W. J. Ferris. 1,726,429; Aug. 27.
- Receptacle, Duplex outlet. J. Gehring. 1,733,222; Oct. 29.
- Receptacle, Edible. E. Hanwi. Des. 79,590; Oct. 15.
- Receptacle, Electric plug. W. S. Mayer. 1,728,623; Sept. 17.
- Receptacle, Electrical. W. H. Nichols. 1,716,834; June 11.
- Receptacle, Electrically-heated. E. E. Drumm. 1,711,406; Apr. 30.
- Receptacle, File. C. Miller. 1,724,408; Aug. 13.
- Receptacle-filling machine. V. Muller. 1,697,201; Jan. 1.
- Receptacle, Flashing. J. W. Phelps. 1,728,627; Sept. 17.
- Receptacle for adhesives, Dispensing. J. E. R. Hayes. 1,730,655; Oct. 8.
- Receptacle for distributing novelties, Ornamental. T. G. Hitt. 1,727,706; Sept. 10.
- Receptacle for door locks, Electric switch. B. M. Phelps. 1,702,483; Feb. 19.
- Receptacle for face powders. P. C. P. Booty. 1,737,294; Nov. 26.
- Receptacle for films and other combustible materials, Fire-proof. A. Van Rossum. 1,715,480; June 4.
- Receptacle for holding small toilet articles. A. Zadek. 1,699,263; Jan. 15.
- Receptacle for paints, etc. M. Toch. 1,706,334-5; Mar. 19.
- Receptacle for refuse. R. Houghten. 1,742,075; Dec. 31.
- Receptacle for sheet toilet paper. R. E. Jordan. 1,723,734; Aug. 6.
- Receptacle for vehicles, Ash. E. Phillips. 1,708,895; Apr. 9.
- Receptacle, Garbage. G. C. Ullrich. 1,714,332; May 21.
- Receptacle, Garbage. C. Wurzlów. 1,728,710; Sept. 17.
- Receptacle, Heat-insulated. C. W. Davis and F. F. Becker. Des. 79,915; Nov. 12.
- Receptacle, Insulated bottle. E. G. Hines. 1,731,625; Oct. 15.
- Receptacle, Jar. J. S. MacLean. 1,706,241; Mar. 19.
- Receptacle, Laundry transport. R. M. Hamilton. 1,703,620; Feb. 26.
- Receptacle, Liquid-dispensing. E. L. Cannon. 1,733,106; Oct. 22.
- Receptacle, Locking lamp. F. H. Weston. 1,733,039; Oct. 22.
- Receptacle, Mail. F. Nielsen. 1,699,156; Jan. 15.
- Receptacle, Match. F. Käppler. 1,726,899; Sept. 3.
- Receptacle, Match. M. C. Miller and F. L. Jenckes. 1,734,224; Nov. 5.
- Receptacle, Match. J. V. Vandagriff. 1,732,145; Oct. 15.
- Receptacle, Metallic. F. Kusterle. 1,716,495; June 11.
- Receptacle, Motorist's. H. B. W. Snelling. 1,733,245; Oct. 29.
- Receptacle or carton and locking means therefor. C. A. Scotcher. 1,715,047; May 28.
- Receptacle or hat bag. J. B. Percival. 1,730,898; Oct. 8.
- Receptacle or similar article, Toilet. R. P. Piperoux. Des. 78,784; June 18.
- Receptacle, Paper. H. B. Rudd. 1,724,517; Aug. 13.
- Receptacle, Plug. C. M. Petersen. 1,698,449; Jan. 8.
- Receptacle, Plug. W. A. Stacey. 1,702,177; Feb. 12.
- Receptacle, Pocket. J. W. Schulze. 1,711,971; May 7.
- Receptacle, Portable. H. Johnson and C. E. Gustafson. 1,707,483; Apr. 2.
- Receptacle protector. J. Schwer. 1,711,751; May 7.
- Receptacle, Safety deposit. E. S. Peer. 1,714,236; May 21.
- Receptacle, Sanitary. G. M. Chandlee. 1,703,509; Feb. 26.
- Receptacle, Sanitary garbage. M. T. Perry. 1,707,091; Mar. 26.
- Receptacle, Series. P. S. Bailey. 1,733,000; Oct. 22.
- Receptacle, Shipping. W. T. Beverly. 1,719,868; July 9.
- Receptacle, Shipping. R. G. Hubbard. 1,735,284; Nov. 12.
- Receptacle, Sign. D. M. Le Fever. 1,741,723; Dec. 31.
- Receptacle, Sign. W. F. Hendry. 1,722,915; July 30.
- Receptacle, Single. W. J. Ferris. 1,726,430; Aug. 27.
- Receptacle, Single-flush. H. J. Morey. 1,736,831; Nov. 26.
- Receptacle, Smoker's. H. A. Bernhardt. Des. 80,012; Dec. 3.
- Receptacle, Smoker's. G. H. Cruess. 1,719,925; July 9.
- Receptacle, Smoker's ash. W. P. Beiling. 1,738,557; Dec. 10.
- Receptacle, Storage. M. Luery. 1,729,953; Oct. 1.
- Receptacle, Temperature-retaining. A. E. Payson. Des. 78,224; Apr. 9.
- Receptacle tipper. C. L. Hooper and R. F. Sutherland. 1,733,459; Oct. 29.
- Receptacle, Vegetable. W. B. Flanagan. 1,701,806; Feb. 12.
- Receptacle, Wall. J. M. Gillilan. 1,726,221; Aug. 27.
- Receptacle, Waste. C. W. Trick. 1,704,906; Mar. 12.
- Receptacle, Waterproof. A. von Frankenberg. 1,736,295; Nov. 19.
- Receptacles, Apparatus for closing. J. D. Reifsnnyder. 1,711,540; May 7.



- Receptacles, Attachment for serving. P. W. Curtis. 1,735,603; Nov. 12.
- Receptacles, Closure for. L. G. Miller. 1,705,131; Mar. 12.
- Receptacles, Device for making. A. P. Barro. 1,735,721; Nov. 12.
- Receptacles, Died-out blank for. R. R. Reilly. Re17,503; Nov. 26.
- Receptacles for liquid, semiliquid, powdery, granular, or solid substances, Manufacture and filling of. H. E. Spencer. 1,712,454; May 7.
- Receptacles, Guard for coin-collection. E. H. Sandkuhl. 1,701,163; Feb. 5.
- Receptacles, Manufacture of double-walled vacuum. C. G. Fink and J. R. Beers. 1,738,991; Dec. 10.
- Receptacles, Producing. A. J. Pratt. 1,699,712; Jan. 22.
- Reciprocating motor. C. S. Weyandt. 1,705,079; Mar. 12.
- Reciprocating tool holder for metal-working machines. J. W. Smith. 1,718,987; July 2.
- Reciprocatory mechanism. K. Strödter. 1,727,451; Sept. 10.
- Reclaiming mats for newspaper or other printing. G. W. Nelson. 1,713,913; May 21.
- Reclaiming used lubricating oil. G. L. Cherry. 1,698,257; Jan. 8.
- Reclining back, Adjustable. R. Stinson. 1,719,571; July 2.
- Reclining chair. J. R. Emmert. 1,698,752; Jan. 15.
- Reclining chair. C. B. Rector. 1,738,115; Dec. 3.
- Reclining chair, Adjustable. A. L. Harris. 1,699,842; Jan. 22.
- Recoil and run-out apparatus for ordnance. R. T. Dawson, J. F. White, and G. T. Buckham. 1,719,597; July 2.
- Recoil mechanisms or buffers, Regulator for. H. C. Zimmerman. 1,707,621; Apr. 2.
- Recoil pad. G. W. Lorimer. 1,729,514; Sept. 24.
- Reconditioning machine. W. H. Stinnett. 1,719,910; July 9.
- Record and making the same, Duplicate sound. L. Rutstein. 1,727,033-40; Sept. 3.
- Record-card-controlled machine for sporting and the like. J. W. Bryce. 1,707,755; Apr. 2.
- Record card or like member for indexes or files. C. S. Campbell and A. E. Hunt. 1,741,283; Dec. 31.
- Record-changing mechanism for disk-record sound-reproducing machines. F. H. Seal and H. Hawkins. 1,741,040; Dec. 24.
- Record device. L. G. Thebaud. 1,698,461; Jan. 8.
- Record disk for talking machines and the like. W. Forse. 1,702,564; Feb. 19.
- Record for reproducing sound. E. Wildhaber. 1,707,243; Apr. 2.
- Record machine, Multiple. M. W. Gordon-Cumming. 1,701,450; Feb. 5.
- Record, Phonograph. J. E. Guernsey. 1,728,932; Sept. 24.
- Record, Phonograph. K. M. Hall. 1,704,432; Mar. 5.
- Record-playing mechanism. N. B. Cregier. 1,710,692; Apr. 30.
- Record-resurfacing machine. V. L. Frykman. 1,740,425; Dec. 17.
- Record-resurfacing machine. T. F. Herlihy. 1,726,894; Sept. 3.
- Record-resurfacing machine. J. M. Lucarelle and V. L. Frykman. 1,723,569; Aug. 6.
- Record-resurfacing machine. J. E. Renholdt. 1,726,859; Sept. 3.
- Record-resurfacing machine. H. P. Roberts. 1,726,588; Sept. 3.
- Record-selecting system. P. M. Rainey. Re17,250; Apr. 2.
- Record, Talking-machine. L. Reddie and B. E. G. Mittell. 1,719,339; July 2.
- Record-translating device, Phonograph. W. P. Kent. 1,739,794; Dec. 17.
- Record, Visible card. A. N. Doe, L. S. Briggs, J. W. Donaldson, and B. L. Polkosnik. 1,728,672; Sept. 17.
- Recorder. See—
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|------------------------|----------------------------|
| Combination recorder.  | Surge recorder.            |
| Direction recorder.    | Time recorder.             |
| Golf driving recorder. | Train recorder.            |
| Speed recorder.        | Volume and price recorder. |
- Recorder. F. A. Burningham and H. K. Moore. 1,697,455; Jan. 1.
- Recorder. L. Roy, C. A. Jennings, and M. H. Lizyness. 1,707,356; Apr. 2.
- Recorder. C. H. Taylor. 1,706,044; Mar. 19.
- Recorder. J. E. M. Tisdale. 1,706,047; Mar. 19.
- Recorder and reproducer, Combined. N. H. Holland. 1,711,680; May 7.
- Recorder and reproducer, Combined. A. C. Keller. 1,733,607; Oct. 29.
- Recording and controlling mechanism. A. E. Clawson. 1,702,892; Feb. 19.
- Recording and indicating sound waves, Method, apparatus, and symbols for. S. Khalil. 1,712,113; May 7.
- Recording and indicating the playing of card games. T. C. Brownell. 1,730,640; Oct. 8.
- Recording and reproducing sound. A. A. Linsell. 1,737,253; Nov. 26.
- Recording and reproducing sound, Apparatus for. R. S. Arthur. 1,732,036; Oct. 15.
- Recording and reproducing sounds, Apparatus for and method of. B. Kwartin. 1,708,476; Apr. 9.
- Recording apparatus. A. N. E. Boos. 1,717,601; June 18.
- Recording apparatus. F. W. G. Bruhn. 1,700,399; Jan. 29.
- Recording apparatus, Telephonic. J. E. Armstrong. 1,727,155; Sept. 3.
- Recording deviation from the vertical in wells, Device for. G. E. Nevill. 1,704,543; Mar. 5.
- Recording device. F. C. Canode. 1,725,976; Aug. 27.
- Recording device. J. F. Ohmer. 1,736,416; Nov. 19.
- Recording device for automobile and the like. J. R. Tisdale. 1,706,046; Mar. 19.
- Recording device for hens, Automatic. T. P. Garankin. 1,722,628; July 30.
- Recording device for meters. S. T. Lewis. 1,707,061; Mar. 26.
- Recording dynamometer and measuring load variations. F. W. Lake. 1,739,724; Dec. 17.
- Recording instruments, Paper-supply means for. C. J. Korndorfer. 1,718,743; June 25.
- Recording mechanism. J. B. Baskerville. 1,698,576; Jan. 8.
- Recording mechanism for fluid-dispensing apparatus, Quantity-. L. R. Hartley. 1,731,744; Oct. 15.
- Recording meter. C. H. H. Rodanet. 1,720,148; July 9.
- Recording pulsating pressures, Apparatus for. G. B. Ireland. 1,729,289; Sept. 24.
- Recording sound waves. J. L. Walker. 1,718,618; June 25.
- Records and reports of transportation of railroad cars, Method and apparatus for conducting and making. L. M. Gibbs. 1,741,229; Dec. 31.
- Records, Forming disk phonograph. A. D. Smith. 1,737,619; Dec. 3.
- Records, Making master. W. W. McLaren. 1,734,139; Nov. 5.
- Recovering heat and chemicals. G. A. Richter and W. B. Van Arsdel. 1,719,130; July 2.
- Recovering products from fractionating condensers. L. W. Snell. 1,725,219; Aug. 20.
- Recovery disubstituted guanidines. A. E. Parmelee. 1,716,081; June 4.
- Rectifier. T. F. Cheney. 1,738,169; Dec. 3.
- Rectifier. G. B. Coleman. 1,707,936; Apr. 2.
- Rectifier. C. G. Smith. 1,731,944; Oct. 15.
- Rectifier and filter, Combined oil. R. L. Skinner. 1,717,741; June 18.
- Rectifier compound. F. H. Mackenzie. 1,727,656; Sept. 10.
- Rectifier, Electric-current. R. J. de Man. 1,698,782; Jan. 15.
- Rectifier, Electricity. T. J. Murphy. 1,708,678; Apr. 9.
- Rectifier, Electrolytic. N. M. Hopkins. 1,728,182; Sept. 17.
- Rectifier for alternating current. C. E. Ogden. 1,738,113; Dec. 3.
- Rectifier for alternating currents. E. C. Ballman. 1,699,602; Jan. 22.
- Rectifier for alternating currents. J. H. Bruninga. 1,730,447; Oct. 8.
- Rectifier for alternating currents. C. E. Ogden. 1,731,981; Oct. 15.
- Rectifier, Mechanical. C. P. Steinmetz. 1,698,283; Jan. 8.
- Rectifier, Point-to-plate gas-filled. H. E. Metcalf. 1,722,588; July 30.
- Rectifier system. J. Kübler. 1,712,569; May 14.
- Rectifier system. J. Kübler. 1,728,290; Sept. 17.
- Rectifier system. J. C. Schelleng. 1,738,266; Dec. 3.
- Rectifier tank. F. B. von Kleist. 1,729,463; Sept. 24.
- Rectifying apparatus. E. F. W. Alexanderson. 1,718,515; June 25.
- Rectifying device. H. Shoemaker. 1,723,584; Aug. 6.
- Rectifying element. M. L. Hartmann and M. C. Miller. 1,708,571; Apr. 9.
- Rectifying lubricating oil. C. L. Stokes. 1,705,317; Mar. 12.
- Rectifying process. M. P. Youker. 1,735,553; Nov. 12.
- Rectifying system. S. Aoki. 1,708,751; Apr. 9.
- Rectifying system. H. D. Brown and C. A. Sabbah. 1,717,312; June 11.
- Rectifying system. G. Darrieus. 1,712,491; May 14.
- Rectifying system. J. Kübler. 1,727,834; Sept. 10.
- Rectifying system. G. Meiners. 1,722,152; July 23.
- Rectifying system. H. O. Siegmund. 1,717,070; June 11.
- Rectifying system and feeding apparatus therefor. J. Kübler. 1,712,505; May 14.
- Rectifying unit and producing the same. C. E. Ogden. 1,707,234; Apr. 2.
- Recuperator and tile structure therefor. W. O. Amsler. 1,721,938; July 23.
- Reducing cross talk on loaded lines. A. Ebeling. 1,719,107; July 2.
- Reducing piston slap in internal-combustion engines, Device for. D. M. Solenberger. 1,698-4; Jan. 8.
- Reducing tank, Water-impurities. J. Carpita. 1,724,693; Aug. 13.
- Reducing the froth formation at centrifugal liquid separators and the like. G. W. Ruda. 1,718,081; June 18.
- Reduction device, Split. E. S. Cook. 1,703,869; Mar. 5.
- Reduction device, Split. T. H. Thomas. 1,714,055; May 21.
- Reduction of attenuation due to the conductance losses in cross arms and insulator pins. L. T. Wilson. 1,710,756; Apr. 30.
- Reduction of the swelling capacity of hydrated cellulose and the resulting product. C. Heuck and P. Esselmann. 1,737,760; Dec. 3.
- Reduction process and apparatus. T. F. Baily. 1,704,029; Mar. 5.



- Reduction unit, Worm-gear. G. H. Acker. 1,741,671; Dec. 31.
- Reed. E. F. Baldwin. 1,721,849; July 23.
- Reed. A. Petrov. 1,721,166; July 16.
- Reed article and making it, Shaped. N. E. Frissell and W. A. Maloy. 1,710,536; Apr. 23.
- Reed-moving mechanism. G. Alexander, sr. 1,704,455; Mar. 5.
- Reed, Spliced paper. G. B. Ambler. 1,741,392; Dec. 31.
- Reed structure and the like. S. Bolin. 1,735,847; Nov. 19.
- Reel: See—
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|-------------------|----------------------|
| Binder reel.      | Measuring-tape reel. |
| Clothesline reel. | Pick-up reel.        |
| Cord reel.        | Sand reel.           |
| Fishing reel.     | Skeining reel.       |
| Hose reel.        | Wire reel.           |
| Machine reel.     |                      |
- Reel. T. Birkenmaier. 1,733,715; Oct. 29.
- Reel. J. Brenzinger. 1,724,002; Aug. 13.
- Reel. A. A. Bureau. 1,702,242; Feb. 19.
- Reel. F. E. Koncana. 1,736,604; Nov. 19.
- Reel. J. E. Rust. 1,716,089; June 4.
- Reel. W. H. Sommer. 1,710,384; Apr. 23.
- Reel adjustment for headers, Automatic. J. C. Eichelberger. 1,729,868; Oct. 1.
- Reel attachment for fish rods. J. A. Ricketts. 1,709,952; Apr. 23.
- Reel for cables and wire. T. Suarez y Bernal. 1,726,137; Aug. 27.
- Reel for coiled strips of fabric. E. M. Goldsmith. 1,717,104; June 11.
- Reel for fabrics. W. R. Lane. 1,710,704; Apr. 30.
- Reel for harvester binders. B. S. Harris and H. M. Johnston. 1,705,186; Mar. 12.
- Reel-seat lock. A. D. Maury. 1,698,341; Jan. 8.
- Reeling machine. I. Cohen. 1,733,170; Dec. 3.
- Reinforced handle. C. D. Upton. 1,725,605; Aug. 20.
- Reinforcement for strong rooms, safes, and the like. H. S. Bruckshaw. 1,741,611; Dec. 31.
- Reinforcing means for containers. C. M. MacChesney. 1,702,909; Feb. 19.
- Reinforcing means for metallic plates. A. E. Small. 1,700,144-6; Jan. 29.
- Refiller, Carpule. E. J. Mohn and C. M. Maland. 1,737,512; Nov. 26.
- Refined petroleum oils. O. Dieckmann. 1,703,615; Feb. 26.
- Refiner, Rotary. E. P. Arpin, jr. 1,714,752; May 28.
- Refinery vessel, Whale-oil. J. Andvig. 1,699,938; Jan. 22.
- Refining apparatus, Fiber-stock. J. A. Wiener. 1,730,908; Oct. 8.
- Refining borates. W. A. Gale and C. F. Ritchie. 1,732,806; Oct. 22.
- Refining borax. C. F. Ritchie and W. A. Gale. 1,724,420; Aug. 13.
- Refining crude borax. C. F. Ritchie and W. A. Gale. 1,739,091; Dec. 10.
- Refining crude fuel oil. E. A. Sperry. 1,699,379; Jan. 15.
- Refining device, Lard-. J. S. Hunter. 1,698,756; Jan. 15.
- Refining fatty oils. E. E. Ayers, jr., and L. H. Clark. 1,737,402; Nov. 26.
- Refining hydrocarbon oil. E. H. Payne. 1,716,974; June 11.
- Refining hydrocarbon oils. H. J. Broderson. 1,698,428; Jan. 8.
- Refining lubricating oil in a hydrocarbon motor, Method and apparatus for. W. B. Clifford. 1,725,392; Aug. 20.
- Refining magnesium and its alloys. G. Pistor. 1,720,436; July 9.
- Refining mineral lubricating oils. E. D. Gray, E. L. Scofield, and E. C. Defoe. 1,716,632; June 11.
- Refining mineral oil. H. Blumenberg, jr. 1,700,347; Jan. 29.
- Refining mineral oils. A. Lachman. 1,712,960; May 14.
- Refining mineral oils. A. B. Lachman. 1,709,315; Apr. 16.
- Refining mineral oils. A. S. Ramage. 1,702,313; Feb. 19.
- Refining of lubricating oils of internal-combustion engines, Process of and apparatus for the continuous. F. W. Manning. 1,729,746; Oct. 1.
- Refining of oils, Continuous process for the. E. T. Hesse. 1,696,913; Jan. 1.
- Refining of petroleum. E. B. Phillips and J. G. Stafford. 1,709,149; Apr. 16.
- Refining of petroleum oils. J. C. Morrell. 1,733,619; Oct. 29.
- Refining oil. C. B. Forward. 1,698,811; Jan. 15.
- Refining oil. E. T. Hesse. 1,702,540; Feb. 19.
- Refining oil. W. Johnson. 1,720,418; July 9.
- Refining petroleum oil. R. Cross. 1,718,218; June 25.
- Refining raw carbon disulphide, Apparatus for. P. Siedler and E. Schulte. 1,699,255; Jan. 15.
- Refining reclaimed rubber, Method and apparatus for. J. F. Fisher and W. R. Gillam. 1,700,287; Jan. 29.
- Refining rosin. I. W. Humphrey. 1,715,083; May 28.
- Refining rosin. I. W. Humphrey. 1,715,086; May 28.
- Refining rosin. H. E. Kaiser and R. S. Hancock. 1,715,088; May 28.
- Refining rosin. G. M. Norman. 1,715,087; May 28.
- Refining used oil, Apparatus for. F. O. Krieger. 1,707,673; Apr. 2.
- Refining used oils. R. V. Aycock and W. D. Harris. 1,707,671; Apr. 2.
- Refining wood rosin. I. W. Humphrey and L. N. Bent. 1,737,763; Dec. 3.
- Refining wood rosin. H. E. Kaiser and A. Langmeier. 1,719,431; July 2.
- Reflecting device. H. F. Delmanhorst. 1,741,100; Dec. 24.
- Reflecting device. L. R. Zehnder. 1,741,087-8; Dec. 24.
- Reflecting signal. C. A. Persons. 1,739,733; Dec. 17.
- Reflecting surface. M. W. Caughlan. 1,735,377; Nov. 12.
- Reflector. F. R. Durfee. 1,718,856; June 25.
- Reflector. J. C. Stearns. 1,711,705; May 7.
- Reflector. W. Wilson. 1,740,488; Dec. 24.
- Reflector adjustable as to normal position, Modulating. J. H. Hammond, jr. 1,702,080; Feb. 12.
- Reflector and application to optical signaling and night advertising, Autocollimating. H. Chretien. 1,706,218; Mar. 19.
- Reflector and frame for wall cabinets and the like, Combined light. P. C. Calissi. 1,708,468; Apr. 9.
- Reflector arc. L. del Riccio. 1,714,242; May 21.
- Reflector-attaching device. L. L. Raymond. 1,735,181; Nov. 12.
- Reflector bowl for electric lamps. E. B. Gillinder. 1,741,693; Dec. 31.
- Reflector device for motion-picture projectors. W. Mayer. 1,731,104; Oct. 8.
- Reflector, Electric-light. H. Mayer. Des. 79,337; Sept. 3.
- Reflector for automobile headlights. C. B. Hamilton. 1,730,571; Oct. 8.
- Reflector for automobile headlights. L. C. Laurent. 1,738,304; Dec. 3.
- Reflector for headlights. H. C. Foster. 1,732,884; Oct. 22.
- Reflector for headlights. S. Suits. 1,709,960; Apr. 23.
- Reflector for instrument illumination, Lamp. C. B. Dinsmore. 1,697,813; Jan. 1.
- Reflector for lighting devices, Adjustable. G. H. Rolfe. 1,701,193; Feb. 5.
- Reflector for motor-vehicle lamps. J. S. Saunders. 1,698,025; Jan. 8.
- Reflector for motor vehicles, Safety. E. F. Kahler and S. F. Steuart. 1,703,489; Feb. 26.
- Reflector, Illuminating. C. W. Frederick. 1,727,341; Sept. 10.
- Reflector, Lamp. F. H. Stair. 1,728,838; Sept. 17.
- Reflector, Light. E. L. Finkelstein. 1,738,426; Dec. 3.
- Reflector, Light. C. A. B. Halvorson. 1,711,478; Apr. 30.
- Reflector, Light. J. Macnab and E. Osbaldiston. 1,718,655; June 25.
- Reflector mechanism for automobiles. G. S. Frambes, jr. 1,722,244; July 23.
- Reflector, Tinsel. H. Jacobson. 1,732,364; Oct. 22.
- Reflector, Making. W. E. Wuelker. 1,697,216; Jan. 1.
- Re-forming worn angle bars. G. Langford. 1,712,506; May 14.
- Refractories, Making. R. L. Frink. 1,736,909; Nov. 26.
- Refractory. J. M. Lambie and D. W. Ross. 1,712,005; May 7.
- Refractory article. C. F. Lorenz. 1,704,256; Mar. 5.
- Refractory articles, Making solid cast. G. S. Fulcher. 1,700,288; Jan. 29.
- Refractory composition and articles therefrom, Making. L. J. Trostel. 1,716,395; June 11.
- Refractory composition and making. T. S. Curtis. 1,741,920; Dec. 31.
- Refractory composition and making same. T. S. Curtis. 1,715,449; June 4.
- Refractory composition for hot tops. E. L. Messler. 1,717,575; June 18.
- Refractory compositions, Manufacture of. K. E. Peiler. 1,724,886; Aug. 13.
- Refractory gun. G. P. McManamna. 1,704,623; Mar. 5.
- Refractory material. J. G. Donaldson and H. L. Coles. 1,703,662; Feb. 26.
- Refractory product and making the same. I. Harter and A. M. Kohler. 1,734,726; Nov. 5.
- Refractory products and making the same. J. T. Littleton, jr. 1,728,350; Sept. 17.
- Refractory substances, Manufacture of. J. D'Ans. 1,728,748; Sept. 17.
- Refreshment stand. C. E. Ager, C. and P. Kail, A. Ager, and W. Kail. Des. 80,212; Dec. 31.
- Refreshment stand. C. W. Peterson. Des. 78,897; July 2.
- Refrigerant. J. G. Tandberg. 1,734,278; Nov. 5.
- Refrigerant tank. L. A. Banta. 1,707,071; Mar. 26.
- Refrigerated case. A. H. Bromann. 1,721,145; July 16.
- Refrigerated package and method. J. W. Martin, jr. 1,735,082; Nov. 12.
- Refrigerated package with permeable insulation and method. J. W. Martin, jr. 1,735,832; Nov. 12.
- Refrigerating and air-circulating means for storage rooms. C. A. Moore. 1,713,776; May 21.
- Refrigerating and ice-making process and apparatus. R. W. Davenport. 1,731,711; Oct. 15.
- Refrigerating apparatus. F. W. Andrews. 1,710,009; Apr. 23.
- Refrigerating apparatus. F. W. Andrews. 1,726,791; Sept. 3.
- Refrigerating apparatus. E. L. Barnes. 1,704,030; Mar. 5.
- Refrigerating apparatus. E. L. Barnes. 1,713,639; May 21.
- Refrigerating apparatus. E. L. Barnes. 1,719,417; July 2.
- Refrigerating apparatus. F. Berdolt. 1,724,122; Aug. 13.
- Refrigerating apparatus. J. H. Biesen. 1,703,468; Feb. 26.
- Refrigerating apparatus. O. E. Bornhauser. Re17,406; Aug. 20.



- Refrigerating apparatus. B. W. Brockett. 1,719,208; July 2.
- Refrigerating apparatus. S. Claiborne. 1,698,810; Jan. 15.
- Refrigerating apparatus. A. H. Collins. 1,698,122; Jan. 8.
- Refrigerating apparatus. F. L. Cook. 1,718,530; June 25.
- Refrigerating apparatus. L. G. Copeman. 1,710,406; Apr. 23.
- Refrigerating apparatus. R. Cramer. Re17,288; May 7.
- Refrigerating apparatus. R. W. Davenport. 1,726,344; Jan. 15.
- Refrigerating apparatus. R. W. Davenport. 1,726,344; Aug. 27.
- Refrigerating apparatus. H. W. Dyer. 1,730,494; Oct. 8.
- Refrigerating apparatus. H. W. Dyer. 1,735,454; Nov. 12.
- Refrigerating apparatus. L. W. Eggleston. 1,699,513; Jan. 15.
- Refrigerating apparatus. J. M. Etienne. 1,735,498; Nov. 12.
- Refrigerating apparatus. J. R. Fehr. 1,718,281; June 25.
- Refrigerating apparatus. J. C. Goosmann. 1,701,753; Feb. 12.
- Refrigerating apparatus. H. A. Greenwald. 1,718,953; July 2.
- Refrigerating apparatus. C. G. Hayes. 1,716,551; June 11.
- Refrigerating apparatus. F. J. Heideman. 1,715,361; June 4.
- Refrigerating apparatus. C. L. Heisler. 1,728,827; Sept. 17.
- Refrigerating apparatus. W. O. Hildreth. 1,730,145; Oct. 1.
- Refrigerating apparatus. H. B. Hull. 1,719,841; July 9.
- Refrigerating apparatus. H. B. Hull and C. Warner. 1,728,970; Sept. 24.
- Refrigerating apparatus. J. W. Jones. 1,698,440; Jan. 8.
- Refrigerating apparatus. A. T. Kasley. 1,715,709; June 4.
- Refrigerating apparatus. J. G. King. Re17,434; Sept. 17.
- Refrigerating apparatus. J. G. King. 1,719,117; July 2.
- Refrigerating apparatus. J. G. King. 1,728,183; Sept. 17.
- Refrigerating apparatus. J. G. King. 1,731,009; Oct. 8.
- Refrigerating apparatus. J. G. King. 1,732,090; Oct. 15.
- Refrigerating apparatus. J. G. King. 1,732,092-4; Oct. 15.
- Refrigerating apparatus. J. G. King. 1,739,639; Dec. 17.
- Refrigerating apparatus. J. G. King. 1,739,723; Dec. 17.
- Refrigerating apparatus. C. B. Krause. 1,730,663; Oct. 8.
- Refrigerating apparatus. B. D. Kunkle and O. M. Summers. 1,724,095; Aug. 13.
- Refrigerating apparatus. W. E. Leibing. 1,708,390; Apr. 9.
- Refrigerating apparatus. T. J. Little, jr. 1,703,311; Feb. 26.
- Refrigerating apparatus. T. J. Little, jr. 1,712,085; May 7.
- Refrigerating apparatus. C. L. McCuen. 1,720,797; July 16.
- Refrigerating apparatus. E. B. Miller and W. L. Edel. 1,729,082; Sept. 24.
- Refrigerating apparatus. C. E. Molesworth, J. Dudmam, and C. G. Zokelt. 1,703,351; Feb. 26.
- Refrigerating apparatus. O. C. Olsen. 1,741,652; Dec. 31.
- Refrigerating apparatus. E. W. Raiche. 1,700,335; Jan. 29.
- Refrigerating apparatus. T. F. Rainsford and T. C. Whitehead. 1,715,386; June 4.
- Refrigerating apparatus. H. Scharnagel. 1,717,895; June 18.
- Refrigerating apparatus. S. M. Schweller. 1,739,655; Dec. 17.
- Refrigerating apparatus. W. A. Slager. 1,717,173; June 11.
- Refrigerating apparatus. C. C. Spreen. 1,728,578; Sept. 17.
- Refrigerating apparatus. R. R. Stitt. 1,698,350; Jan. 8.
- Refrigerating apparatus. E. O. Stout. 1,738,126; Dec. 3.
- Refrigerating apparatus. O. M. Summers. 1,724,051; Aug. 13.
- Refrigerating apparatus. W. F. Swezey. 1,718,317; June 25.
- Refrigerating apparatus. B. Thoens. 1,713,934; May 21.
- Refrigerating apparatus. A. M. Thomson. 1,704,352; Mar. 5.
- Refrigerating apparatus. L. L. Torrey. 1,736,470; Nov. 19.
- Refrigerating apparatus. C. Warner and H. B. Hull. 1,702,529; Feb. 19.
- Refrigerating apparatus. H. W. Wolverton. 1,699,576; Jan. 22.
- Refrigerating apparatus, Absorption. C. Hochherz. 1,697,187; Jan. 1.
- Refrigerating apparatus and process for refrigeration. B. M. Des Jardins. 1,719,692; July 2.
- Refrigerating apparatus, Electric. C. M. Davison. 1,699,564; Jan. 22.
- Refrigerating apparatus, Electric. C. M. Davison. 1,720,171; July 9.
- Refrigerating apparatus of the absorption type. E. Altenkirch. 1,728,742; Sept. 17.
- Refrigerating apparatus of the absorption type. C. G. Munters. 1,729,355; Sept. 24.
- Refrigerating appliance for precooling, cold-storage, and like rooms. C. A. Moore. 1,722,817; July 30.
- Refrigerating box. W. Rohrbeck. 1,726,629; Sept. 3.
- Refrigerating by absorption, Apparatus for. A. J. Sweeney. 1,710,438; Apr. 23.
- Refrigerating coil. J. T. Hamilton. 1,734,127; Nov. 5.
- Refrigerating-coil system. N. H. Gay. 1,716,828; June 4.
- Refrigerating coils, Electric defroster for. W. B. Day. 1,742,062; Dec. 31.
- Refrigerating device. L. G. Copeman. 1,703,299; Feb. 26.
- Refrigerating device. D. F. Keith. 1,740,737; Dec. 24.
- Refrigerating device. F. H. Rayfield. 1,728,804; Sept. 17.
- Refrigerating device. J. V. M. Risberg. 1,707,319; Apr. 2.
- Refrigerating device. M. F. Weinrich. 1,727,187; Sept. 3.
- Refrigerating dish, Combination. J. J. Tressel. 1,720,935; July 16.
- Refrigerating liquid feeder and regulator, Automatic. O. Luhr. 1,725,875; Aug. 27.
- Refrigerating machine. J. A. Grier. 1,724,874; Aug. 13.
- Refrigerating machine. E. H. Hull. 1,698,306; Jan. 8.
- Refrigerating machine. A. A. Kucher. 1,719,810; July 2.
- Refrigerating machine. I. Lundgaard. 1,730,580; Oct. 8.
- Refrigerating machine. G. Maiuri and F. N. Moraschi. 1,720,603; July 9.
- Refrigerating machine. C. Orr. 1,725,472; Aug. 20.
- Refrigerating machine. F. W. Schwiun. 1,697,542; Jan. 1.
- Refrigerating machine. C. S. Steenstrup. 1,701,343; Feb. 5.
- Refrigerating machine. C. Steenstrup. 1,736,635; Nov. 19.
- Refrigerating machine and refrigeration. J. W. Cuthbert. 1,732,039; Oct. 15.
- Refrigerating machine, Absorption. E. Wirth-Frey. 1,718,283; June 25.
- Refrigerating machine, Absorption. E. Wirth-Frey. 1,720,160; July 9.
- Refrigerating machine, Intermittently-operating absorption. J. Bayer. 1,717,909; June 18.
- Refrigerating machine, Intermittently-operating absorption. G. Ferguson. 1,726,699; Sept. 3.
- Refrigerating machine of the absorption type. G. Maiuri and R. F. Bossini. 1,725,658; Aug. 20.
- Refrigerating machine of the absorption type. G. Maiuri and R. F. Bossini. 1,737,426; Nov. 26.
- Refrigerating machine, Rotary. E. W. Waldener. 1,725,383; Aug. 20.
- Refrigerating machines, Evaporator for. R. E. Sabin. 1,727,018; Sept. 3.
- Refrigerating method and apparatus. S. L. Bright. 1,700,429; Jan. 29.
- Refrigerating method and apparatus. H. D. Edwards. 1,732,596; Oct. 22.
- Refrigerating method and apparatus. T. Shipley. 1,703,965; Mar. 5.
- Refrigerating or cooling apparatus. H. Haager. 1,737,083; Nov. 26.
- Refrigerating plant. B. Clavette. 1,736,648; Nov. 19.
- Refrigerating process. S. C. Carney. 1,726,341; Aug. 27.
- Refrigerating process. S. C. Carney. 1,732,460; Oct. 22.
- Refrigerating process and apparatus. L. A. Benoist and G. T. Voorhees. 1,719,818; July 2.
- Refrigerating system. M. Alex. 1,736,773-4; Nov. 26.
- Refrigerating system. R. W. Davenport. 1,735,995; Nov. 19.
- Refrigerating system. S. C. Carney. 1,740,281; Dec. 17.
- Refrigerating system. W. Dunkerley. 1,710,300; Apr. 23.
- Refrigerating system. A. Jones. 1,736,706; Nov. 19.
- Refrigerating system. R. W. Kritzer. 1,712,567-8; May 14.
- Refrigerating system. T. J. Little, jr. 1,711,270; Apr. 30.
- Refrigerating system. T. J. Little, jr. 1,724,944; Aug. 20.
- Refrigerating system. G. W. Mason. 1,700,770; Feb. 5.
- Refrigerating system. F. J. Muenchen. 1,721,312; July 16.
- Refrigerating system. S. E. Wilson. 1,702,145; Feb. 12.
- Refrigerating system. G. F. Zellhoefer. 1,738,270; Dec. 3.
- Refrigerating system. G. F. Zellhoefer. 1,738,342; Dec. 3.
- Refrigerating system and controlling apparatus therefor. C. O. Pettersson. 1,724,219; Aug. 13.
- Refrigerating systems, Control mechanism for. A. C. Schickler. 1,734,349; Nov. 5.
- Refrigerating unit. R. N. Cooper. 1,705,460; Mar. 12.
- Refrigerating unit for attachment to ice-boxes. M. P. Wetmore. 1,740,848; Dec. 24.
- Refrigerating unit. W. Tauber. 1,724,533; Aug. 13.
- Refrigerating vessel. P. J. Muenchen. 1,721,311; July 16.
- Refrigeration. S. M. Bäckström. 1,736,871; Nov. 26.
- Refrigeration. S. T. Beare. 1,723,460; Aug. 6.
- Refrigeration. J. G. Bergdoll. 1,735,724; Nov. 12.
- Refrigeration. S. C. Carney. 1,713,388; May 21.
- Refrigeration. F. O. Conill. 1,738,233; Dec. 3.
- Refrigeration. R. J. Cracknell. 1,739,544; Dec. 17.
- Refrigeration. T. M. Elfving. 1,727,758; Sept. 10.
- Refrigeration. J. F. Hanrahan. 1,717,683; June 18.
- Refrigeration. D. B. Knight. 1,735,869; Nov. 19.
- Refrigeration. A. Lenning. 1,709,588; Apr. 16.
- Refrigeration. A. V. Livingston. 1,708,625-6; Apr. 9.
- Refrigeration. E. B. Miller. 1,729,081; Sept. 24.
- Refrigeration. C. G. Munters. 1,711,804; May 7.
- Refrigeration. C. G. Munters. 1,736,288; Nov. 19.
- Refrigeration. C. G. Munters and J. G. Tandberg. 1,738,720; Dec. 10.



- Refrigeration. I. B. Ross. 1,739,017; Dec. 10.  
 Refrigeration. J. C. Smith. 1,731,546; Oct. 15.  
 Refrigeration. C. C. Spreen. 1,711,254; Apr. 30.  
 Refrigeration. C. C. Spreen. 1,727,946; Sept. 10.  
 Refrigeration. A. M. Thomson. 1,730,486; Oct. 8.  
 Refrigeration. B. C. von Platen and C. G. Munters. 1,728,643-4; Sept. 17.  
 Refrigeration. B. C. von Platen, C. G. Munters, and S. M. Bäckström. 1,711,553; May 7.  
 Refrigeration. B. C. von Platen, C. G. Munters, and S. M. Bäckström. 1,723,453; Aug. 6.  
 Refrigeration. B. C. von Platen, C. G. Munters, and S. M. Bäckström. 1,738,678; Dec. 10.  
 Refrigeration. K. A. Wessblad. 1,702,754; Feb. 19.  
 Refrigeration. E. T. Williams. 1,726,093; Aug. 27.  
 Refrigeration and chemical compounds useful therein, Method of and apparatus for producing. F. G. Keyes. 1,698,847; Jan. 15.  
 Refrigeration and other apparatus including fluid compressors and the like. W. H. Carrier. 1,709,896; Apr. 23.  
 Refrigeration apparatus. G. M. Troup. 1,704,522; Mar. 5.  
 Refrigeration apparatus. C. Warner and E. L. Horlacher. 1,734,550; Nov. 5.  
 Refrigeration, Apparatus for and method of. C. A. Kohl. 1,715,607; June 4.  
 Refrigeration apparatus, Mechanical. D. P. Heath. 1,726,519; Aug. 27.  
 Refrigeration apparatus, Passing lubricants directly through liquid receivers in. L. V. Myers. 1,736,721; Nov. 19.  
 Refrigeration condensing mechanism. T. J. Little, jr. 1,731,630; Oct. 15.  
 Refrigeration, Mechanical. A. H. Goss. 1,733,793-4; Oct. 29.  
 Refrigeration, Mechanical. C. C. Spreen. Re17,518; Dec. 10.  
 Refrigeration, Mechanical. C. C. Spreen. 1,711,252; Apr. 30.  
 Refrigeration, Mechanical. C. C. Spreen. 1,717,857; June 18.  
 Refrigeration, Mechanical. C. C. Spreen. 1,720,767; July 16.  
 Refrigeration, Mechanical. C. C. Spreen. 1,737,776; Dec. 3.  
 Refrigeration, Method and apparatus for. C. Field. 1,730,922; Oct. 8.  
 Refrigeration, Method and apparatus for. S. Ruben. 1,717,584; June 18.  
 Refrigeration, Method of and apparatus for. W. H. Carrier. 1,718,683; June 25.  
 Refrigeration, Method of and apparatus for. A. S. Limpert. 1,706,621; Mar. 26.  
 Refrigeration plant of the intermittent absorption type. I. Amundsen and E. Stephansen. 1,707,892; Apr. 2.  
 Refrigeration process and apparatus. E. B. Miller and W. L. Edel. 1,729,083; Sept. 24.  
 Refrigeration, Process of and apparatus for producing. R. W. Davenport. 1,726,178; Aug. 27.  
 Refrigeration system. G. Hilger. 1,705,764; Mar. 19.  
 Refrigeration system, Multiple-installation. W. F. Thatcher. 1,724,233; Aug. 13.  
 Refrigerator. K. G. Anderson. 1,724,546; Aug. 13.  
 Refrigerator. E. L. Barnes. 1,699,681; Jan. 22.  
 Refrigerator. S. T. Beare. 1,724,391; Aug. 13.  
 Refrigerator. W. L. Bodman. 1,708,461; Apr. 9.  
 Refrigerator. G. C. Bohn. 1,701,525; Feb. 12.  
 Refrigerator. L. S. Chadwick and M. Resek. Des. 77,812; Feb. 26.  
 Refrigerator. H. S. Cleveland. 1,708,605; Apr. 9.  
 Refrigerator. F. J. Corneil. 1,734,366; Nov. 5.  
 Refrigerator. J. N. Economos. 1,713,333; May 14.  
 Refrigerator. V. L. Formentos. 1,725,827; Aug. 20.  
 Refrigerator. M. Fredenhagen. 1,701,323; Feb. 5.  
 Refrigerator. C. A. Frick. 1,705,756; Mar. 19.  
 Refrigerator. J. E. Glockler. 1,705,914; Mar. 19.  
 Refrigerator. J. E. Glockler. 1,711,113; Apr. 30.  
 Refrigerator. J. E. Glockler. 1,711,351; Apr. 30.  
 Refrigerator. H. T. Herr. 1,697,185; Jan. 1.  
 Refrigerator. W. A. Inman. 1,696,956; Jan. 1.  
 Refrigerator. J. M. Jackson. 1,724,937; Aug. 20.  
 Refrigerator. C. G. Juneau. 1,727,713; Sept. 10.  
 Refrigerator. C. G. Juneau and W. C. Marshall. 1,727,777; Sept. 10.  
 Refrigerator. S. Kaye and C. A. Frick. 1,738,476; Dec. 3.  
 Refrigerator. H. E. Keener. 1,707,484; Apr. 2.  
 Refrigerator. J. B. Knauss. 1,701,463; Feb. 5.  
 Refrigerator. A. A. Kucher. 1,719,807-9; July 2.  
 Refrigerator. A. A. Kucher. 1,719,820; July 2.  
 Refrigerator. T. J. Little, jr. 1,741,638; Dec. 31.  
 Refrigerator. I. Lundgaard. 1,717,459; June 18.  
 Refrigerator. J. MacKaye. 1,714,176; May 21.  
 Refrigerator. G. W. Mason. 1,736,884; Nov. 26.  
 Refrigerator. C. G. Munters. 1,729,926; Oct. 1.  
 Refrigerator. G. M. Osborn. 1,729,182; Sept. 24.  
 Refrigerator. A. V. Pankey. 1,712,713; May 14.  
 Refrigerator. J. R. Replogle. 1,719,024; July 2.  
 Refrigerator. F. T. Rodgers. 1,711,810; May 7.  
 Refrigerator. J. E. Sapp. 1,734,404; Nov. 5.  
 Refrigerator. J. Stewart. 1,728,636; Sept. 17.  
 Refrigerator. M. C. Terry. 1,719,634; July 2.  
 Refrigerator. E. E. Turner. 1,703,124; Feb. 26.  
 Refrigerator. N. T. Wilcox. 1,720,310; July 9.  
 Refrigerator, Absorption. M. Alex. 1,710,334; Apr. 23.  
 Refrigerator, Aircraft. G. F. Bosch. 1,702,194; Feb. 12.  
 Refrigerator and compartment device therefor. O. Strufe. 1,704,113; Mar. 5.  
 Refrigerator and dispensing device. J. E. Henderson. 1,710,621; Apr. 23.  
 Refrigerator and display case. R. Trojahn. 1,719,526; July 2.  
 Refrigerator and display stand, Combined. N. H. Connell and M. McMahan. 1,711,921; May 7.  
 Refrigerator and forming the same, Artificial-stone. L. G. Copeman. 1,703,511; Feb. 26.  
 Refrigerator and refrigerating apparatus therefor. D. P. Heath. 1,726,486; Aug. 27.  
 Refrigerator and the like. H. H. Hillman. 1,718,958; July 2.  
 Refrigerator apparatus. E. Platten. 1,721,502; July 23.  
 Refrigerator, Bottle. S. Kaye. 1,705,573; Mar. 19.  
 Refrigerator, Bottle. L. G. Roach. 1,721,232; July 16.  
 Refrigerator box. S. M. Martin. Des. 78,961; July 9.  
 Refrigerator box, Window. W. J. Ramsey. 1,730,685; Oct. 8.  
 Refrigerator, Butter. J. D. Poletis. 1,714,727; May 28.  
 Refrigerator-cabinet structure. R. W. Hull. 1,716,778; June 11.  
 Refrigerator cabinets, Method of and apparatus for preventing the condensation of moisture on the exterior surface of. A. L. Lambert. 1,705,928; Mar. 19.  
 Refrigerator construction. C. L. Mitchell. 1,734,771; Nov. 5.  
 Refrigerator construction. R. A. Riek. 1,701,422; Feb. 5.  
 Refrigerator, Counter. A. J. Heyer. 1,741,568; Dec. 31.  
 Refrigerator elements, Forming. G. Muffy. 1,709,865; Apr. 23.  
 Refrigerator evaporator. C. L. Heisler. 1,717,208; June 11.  
 Refrigerator for bottled beverages, Dispensing. J. W. Lowder. 1,710,830; Apr. 30.  
 Refrigerator, Household. H. W. Dyer. 1,735,453; Nov. 12.  
 Refrigerator, Household electric. C. Phillips. 1,725,933; Aug. 27.  
 Refrigerator, Iceless. E. V. Heaford. 1,728,887; Sept. 17.  
 Refrigerator, Iceless. A. Rivard. 1,728,364; Sept. 17.  
 Refrigerator lining and manufacturing same. O. P. Greenwood and H. B. Bettinger. 1,740,237; Dec. 17.  
 Refrigerator, Portable sectional. J. E. Twitty. 1,698,517; Jan. 8.  
 Refrigerators, Cooling unit for. F. G. Slagel. 1,729,403; Sept. 24.  
 Refrigerators, Ice casing for. C. Nielsen. 1,730,680; Oct. 8.  
 Refrigerators, Making. S. G. Brinkman. 1,712,978; May 14.  
 Refrigerators, Water-cooling unit for electric. F. R. Vollmer. 1,741,594; Dec. 31.  
 Refuse cutter. J. H. Mansfield. 1,715,375; June 4.  
 Refuse disposal apparatus. M. J. Tierney. 1,724,236; Aug. 13.  
 Regeneration or revivification of purifying, filtering, and decolorizing agents. J. N. A. Sauer. 1,709,284; Apr. 16.  
 Regenerative furnace. G. E. Rose. 1,721,885; July 23.  
 Regenerative furnace. F. E. Kling. 1,735,687; Nov. 12.  
 Regenerator, Gas. G. Kingston. 1,698,099; Jan. 8.  
 Regenerator with large surface, Heat. C. M. Stein. 1,703,793; Feb. 26.  
 Register: See—  
   Autographic punching register. Manifold register.  
   Cash register. Resettable register.  
   Autographic register. Sliding register.  
   Fare register. Time register.  
   Golf register. Vehicle register.  
 Register. F. P. and F. V. Altman. 1,726,792; Sept. 3.  
 Register. A. B. Cooke. 1,723,766; Aug. 6.  
 Register. W. M. Copeland. 1,702,198; Feb. 12.  
 Register. I. F. McMin. 1,699,006; Jan. 15.  
 Register. G. F. Rooke. 1,718,583; June 25.  
 Register. H. M. Vowinkel. 1,713,108; May 14.  
 Register and ventilator. H. S. Hart. 1,711,458; Apr. 30.  
 Register construction. T. H. Roberts. 1,718,380; June 25.  
 Register for fuel burners, Air. E. H. Peabody. 1,698,169; Jan. 8.  
 Register inclosure. P. A. Gstalder. Des. 77,598; Jan. 29.  
 Registering apparatus. G. F. Rooke. 1,718,584; June 25.  
 Registering collection box. S. D. Vergonis. 1,712,596; May 14.  
 Registering device. I. S. Dement. 1,725,978; Aug. 27.  
 Registering device. I. S. Dement. 1,727,966; Sept. 10.  
 Registering device, Speed-. C. Arnesen. 1,737,400; Nov. 26.  
 Registering mechanism. A. F. Shore. 1,734,183; Nov. 5.  
 Registering mechanism for golf driving machines. T. H. Decker. 1,737,000; Nov. 26.  
 Registering mechanism for postage-meter machines. A. H. Pitney. 1,699,200; Jan. 15.  
 Registers, Operating mechanism for fare. E. H. Thompson. 1,706,989; Mar. 26.  
 Registration system. C. E. Lomax. 1,698,726; Jan. 15.  
 Regulating apparatus. G. E. Hulse. 1,701,676; Feb. 12.  
 Regulating apparatus. E. A. Heman. 1,720,901; July 16.  
 Regulating apparatus. L. H. Von Ohlsen. 1,709,757; Apr. 16.  
 Regulating apparatus for car-heating systems. P. B. Parks and D. W. Miller. 1,729,743; Oct. 1.  
 Regulating apparatus for steam condensers. E. Roučka. 1,719,138; July 2.



- Regulating combustion, Apparatus for. G. Wünsch. 1,721,800; July 23.
- Regulating device for arc lamps. F. Meyer. 1,721,081; July 16.
- Regulating device for electrical systems. R. A. Philip. 1,733,726; Dec. 10.
- Regulating device for electrode boilers. S. Davidsen. 1,706,146; Mar. 19.
- Regulating device for fluids, Flow. E. T. Turner. 1,715,801; June 4.
- Regulating feed water for boilers. H. A. Otto. 1,707,699; Apr. 2.
- Regulating gas flow, Apparatus for. W. B. Van Arsdell. 1,727,418; Sept. 10.
- Regulating means for elastic-fluid turbine. D. F. Warner and F. R. Ericson. 1,708,814; Apr. 9.
- Regulating mechanism. G. Muffy. 1,719,073; July 2.
- Regulating mechanism. G. Muffy and H. S. Pierce. 1,719,075; July 2.
- Regulating mechanism, Movement. R. F. Ringle. 1,739,042; Dec. 10.
- Regulating prime movers and generators, System for simultaneously. H. Korn. 1,697,568; Jan. 1.
- Regulating system. H. Bany and H. T. Seeley. 1,725,697; Aug. 20.
- Regulating system. T. F. Barton. 1,731,883; Oct. 15.
- Regulating system. A. M. Goodwin. 1,709,616; Apr. 16.
- Regulating system. E. L. Hough. 1,723,039; Aug. 6.
- Regulating system. J. I. Hull. 1,706,164; Mar. 19.
- Regulating system. F. H. Winter. 1,713,156; May 14.
- Regulating system, Automatic. F. J. Champlin. 1,740,332; Dec. 17.
- Regulating system for dynamo-electric machines. T. F. Barton. 1,713,161; May 14.
- Regulating the closing of doors, Device for. W. C. Sharp. 1,699,758; Jan. 22.
- Regulating the gas mixture in gas-fired-furnace installations, Apparatus for. E. P. G. Wünsch. 1,712,128; May 7.
- Regulating the voltage of electrical transformers. A. C. Whish. 1,715,215; May 28.
- Regulating the working of steam-generating plants, Apparatus for. O. H. Hartmann and F. Wempe. 1,712,497; May 14.
- Regulation. T. Schullström. 1,726,721; Sept. 3.
- Regulation. F. Wettstein and T. Schullström. 1,726,726; Sept. 3.
- Regulation, Frequency. H. Chireix. 1,737,147; Nov. 26.
- Regulation of induction-motor cascades. W. Seiz. 1,708,850; Apr. 9.
- Regulation of reflex in fractionating towers, Automatic. H. M. Noel. 1,735,470; Nov. 12.
- Regulator; See—
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|-------------------------------|------------------------------|
| Boiler-feed regulator.        | Load regulator.              |
| Contact regulator.            | Oven-heat regulator.         |
| Current regulator.            | Power-demand regulator.      |
| Damper regulator.             | Power-factor regulator.      |
| Density regulator.            | Power regulator.             |
| Draft regulator.              | Pressure regulator.          |
| Drill-shoe regulator.         | Pulp-feed regulator.         |
| Elastic-connection regulator. | Quick-acting regulator.      |
| Electric regulator.           | Shaft regulator.             |
| Electrical regulator.         | Sound regulator.             |
| Feed regulator.               | Speed regulator.             |
| Flow regulator.               | Temperature regulator.       |
| Fluid-pressure regulator.     | Thermostat regulator.        |
| Furnace regulator.            | Thermostatic flow regulator. |
| Gas regulator.                | Thermostatic regulator.      |
| Generator-voltage regulator.  | Vibratory regulator.         |
| Headlight regulator.          | Voltage regulator.           |
| Heat regulator.               | Water-feed regulator.        |
| Humidity regulator.           | Water regulator.             |
| Induction regulator.          | Window regulator.            |
|                               | Windshield regulator.        |
- Regulator. R. T. Kintzing. 1,709,673; Apr. 16.
- Regulator. L. M. Perkins. 1,703,207; Feb. 26.
- Regulator. E. M. Petersime. 1,727,249; Sept. 3.
- Regulator. C. H. Smoot. 1,711,066; Apr. 30.
- Regulator. E. R. Wolfert. 1,705,695; Mar. 19.
- Regulator and aligner, Strip-feed. E. K. Bottle. 1,735,849; Nov. 19.
- Regulator and governor, High-speed. R. Mayer. 1,717,722; June 18.
- Regulator and return motion therefor, Fluid-pressure. F. A. Wettstein. 1,718,673; June 25.
- Regulator and safety device. E. Homesley and R. Roper. 1,712,346; May 7.
- Regulator and self-closing valve, Combined. D. H. Ebinger. 1,710,815; Apr. 30.
- Regulator for bus bars, Inductive alternating-current. O. H. Dicke. 1,729,713; Oct. 1.
- Regulator for electric irons, Automatic economizer and temperature. W. L. Keefer. 1,739,002; Dec. 10.
- Regulator for flues or chimneys, Draft. G. Korngiebel. 1,708,310; Apr. 9.
- Regulator for furnaces and the like, Automatic. F. Stein. 1,725,678; Aug. 20.
- Regulator for hydraulic couplings and change gears, Automatic speed-ratio. S. G. Wingquist. 1,701,903; Feb. 12.
- Regulator for lubricating systems, Feed. W. E. Matthews. 1,725,812; Aug. 27.
- Regulator for player pianos, Expression. T. F. Cheek. 1,704,078; Mar. 5.
- Regulator for rectifiers. J. C. Schelleng. 1,724,968; Aug. 20.
- Regulator for seed rolls on linters, Density. C. P. Lamons. 1,741,636; Dec. 31.
- Regulator handle, Automobile window. W. Schnell. Des. 79,762; Oct. 29.
- Regulator or the like, Liquid-level. W. B. Fulton. 1,733,659; Oct. 29.
- Regulator system. W. W. Edson. 1,732,744; Oct. 22.
- Regulator system. F. E. Hardy. 1,697,183; Jan. 1.
- Regulator system. J. P. Maxwell, R. C. Bergvall, and J. H. Ashbaugh. 1,739,159; Dec. 10.
- Regulator system. W. E. Menzies. 1,705,672; Mar. 19.
- Regulator system. P. Paech. 1,705,675; Mar. 19.
- Regulator system. N. Schachtmeyer and W. de Vries. 1,709,687; Apr. 16.
- Regulator system. S. A. Staeger. 1,700,601; Jan. 29.
- Regulator system. S. A. Staeger. 1,705,688; Mar. 19.
- Regulator system. S. A. Staeger. 1,709,689; Apr. 16.
- Regulator system. H. M. Stoller. 1,711,661; May 7.
- Regulator system. H. M. Stoller. 1,719,492; July 2.
- Regulator system. C. F. Wagner, R. D. Evans, and S. B. Griscom. 1,736,471; Nov. 19.
- Regulator system. E. R. Wolfert. 1,736,477; Nov. 19.
- Relay. S. M. Day. 1,703,837; Feb. 26.
- Relay. A. J. Gurney. 1,705,518; Mar. 19.
- Relay. W. G. Hartwig. 1,700,314; Jan. 29.
- Relay. O. S. Jennings. 1,728,550-1; Sept. 17.
- Relay. A. B. Kendall. 1,730,216; Oct. 1.
- Relay. F. H. Prescott. 1,727,035; Sept. 3.
- Relay. H. O. Putt. 1,701,634; Feb. 12.
- Relay. F. E. Queeney. 1,726,164; Aug. 27.
- Relay. H. Stavöstrand. 1,728,840; Sept. 17.
- Relay. H. M. Stephenson. 1,699,125; Jan. 15.
- Relay. H. M. Stevens. 1,738,461; Dec. 3.
- Relay, Alternating-current. M. L. Almquist. 1,736,816; Nov. 26.
- Relay, Alternating-current. A. F. Lake. 1,729,222; Sept. 24.
- Relay, Alternating-current. W. W. Sturdy. 1,711,550; May 7.
- Relay, Alternating-current. E. O. Thompson. 1,717,475; June 18.
- Relay and indicator, Combined. C. I. Hall. 1,708,789; Apr. 9.
- Relay and making the same, Thermal. A. J. Mottlau. 1,710,782; Apr. 30.
- Relay apparatus employing thermionic valves, Electric. W. J. Brown, E. J. E. Hubbard, E. Y. Robinson, and C. R. Burch. 1,728,745; Sept. 17.
- Relay, Automatic grounding. W. L. Hintz. 1,728,408; Sept. 17.
- Relay, Automatic selective pneumatic-tube-carrier. W. V. McGuinness and J. M. Chulstrom. 1,733,026; Oct. 22.
- Relay commutator. H. M. Pruden. 1,708,955; Apr. 16.
- Relay, Compensating thermal. G. H. Whittingham. 1,718,017; June 18.
- Relay control apparatus, Electrical. F. Andorff and K. Landsmann. 1,723,322; Aug. 6.
- Relay control system, Electron. E. G. Danielson. 1,733,117; Oct. 29.
- Relay, Cross protection. C. D. Cronk. 1,713,489; May 14.
- Relay, Dashpot. H. Sengbusch. 1,706,183; Mar. 19.
- Relay device. W. Koch. 1,740,465; Dec. 24.
- Relay, Differential frequency. G. R. McDonald. 1,698,316; Jan. 8.
- Relay distributor. H. J. Sinnott. 1,721,058; July 16.
- Relay, Electric. H. E. Bucklen and H. O. Putt. 1,728,037; Sept. 10.
- Relay, Electric. B. E. Getchell. 1,708,222; Apr. 9.
- Relay, Electric. O. C. Traver. 1,718,500; June 25.
- Relay, Electrical. L. S. Brach. 1,702,490; Feb. 19.
- Relay, Electrical. W. B. Wells. 1,712,780; May 14.
- Relay, Electromagnetic. W. B. Churcher. 1,721,177; July 16.
- Relay, Electromagnetic. J. Erickson. 1,727,968; Sept. 10.
- Relay, Electromagnetic. G. A. E. Lundell. 1,711,058; May 7.
- Relay, Elevator. C. F. Quick and G. W. Tamsitt. 1,697,883; Jan. 8.
- Relay for circuit breakers, Control. E. K. Read. 1,731,351; Oct. 15.
- Relay for machine-tool feeds, Power-limiting. J. C. and R. D. Shaw. 1,717,326; June 11.
- Relay for regulating apparatus, Hydraulic. W. Abendroth. 1,716,408; June 11.
- Relay, Ground. L. N. Crichton. 1,731,372; Oct. 15.
- Relay, High-speed. H. Chireix and L. Philippart. 1,702,075; Feb. 12.
- Relay, High-speed. H. J. J. M. de R. de Bellescize. 1,711,926; May 7.
- Relay, Inverse time-limit. W. H. Petersén. 1,699,404; Jan. 15.
- Relay, Light-responsive. V. K. Zworykin. 1,709,763; Apr. 16.
- Relay mechanism. A. F. Meyer. 1,713,853; May 21.
- Relay motor, Electromechanical. M. Chirrol. 1,724,825; Aug. 13.
- Relay, Phase-sequence. C. Le G. Fortescue. 1,736,434; Nov. 19.
- Relay, Phase-sequence. H. P. Sleeper and C. L. Fortescue. 1,726,928; Sept. 3.
- Relay, Polarized. F. C. Holtz. 1,722,749; July 30.



- Relay, Protective. V. H. Todd. 1,702,454; Feb. 19.  
 Relay, Quick-responding leakage. W. Gaarz and J. Sorge. 1,735,002; Nov. 12.  
 Relay, Reversed acting intermediate. C. A. Otto. 1,726,409; Aug. 27.  
 Relay, Selective F. D. Pearne. 1,708,737; Apr. 9.  
 Relay, Selective ground-detecting. S. Norberg. 1,734,874; Nov. 5.  
 Relay system. W. G. Hickling. 1,713,698; May 21.  
 Relay system. H. P. Sleeper. 1,706,687; Mar. 19.  
 Relay system. H. P. Sleeper. 1,729,405; Sept. 24.  
 Relay system. C. W. Stone. 1,708,806; Apr. 9.  
 Relay system for supervisory control. J. Slepian. 1,725,164; Aug. 20.  
 Relay system, Light-. J. V. Breisky. 1,736,993; Nov. 26.  
 Relay system, Synchronizing. P. Thomas. 1,730,341; Oct. 1.  
 Relay system, Synchronizing. P. Thomas. 1,731,952; Oct. 15.  
 Relay system, Synchronizing. P. Thomas. 1,734,239; Nov. 5.  
 Relay system, Synchronous vibratory. W. A. Knoop. 1,730,614; Oct. 8.  
 Relay switch. J. S. Dunn. 1,741,409; Dec. 31.  
 Relay switch, Power-unit. P. E. Edelman. 1,712,916; May 14.  
 Relay, Thermal. E. M. Claytor. 1,728,785; Sept. 17.  
 Relay, Thermal. H. S. Gano. 1,728,793; Sept. 17.  
 Relay, Thermal. F. W. Gay. 1,724,758; Aug. 13.  
 Relay, Thermal. C. H. Hodgkins. 1,725,518; Aug. 20.  
 Relay, Thermal. A. J. Mottlau. 1,709,681; Apr. 16.  
 Relay, Thermal. A. J. Mottlau. 1,736,979; Nov. 26.  
 Relay, Thermal. E. Schnetzler. 1,722,768; July 30.  
 Relay, Thermal. H. E. White. 1,735,225; Nov. 12.  
 Relay, Thermal. G. H. Whittingham. 1,728,092; Sept. 10.  
 Relay, Time-element selective. H. P. Sleeper. 1,729,404; Sept. 24.  
 Relay, Universal. W. K. Howe. 1,710,664; Apr. 23.  
 Relay, Vacuum-tube. S. Ruben. 1,739,043; Dec. 10.  
 Relay, Voltage. J. H. Graybill. 1,729,871; Oct. 1.  
 Releaseable implement. J. Bickley. 1,713,212; May 14.  
 Release spring. W. Scott. 1,699,548; Jan. 22.  
 Releasing mechanism, Automatic. A. Olson. 1,704,207; Mar. 5.  
 Releasing ships' lifeboats, Apparatus for. E. Hinrichsen. 1,720,730; July 16.  
 Religious article. L. J. Spillane. 1,732,733; Oct. 22.  
 Refiner for balloon tires. S. Armata. 1,700,014; Jan. 22.  
 Remote control device. C. B. Mirick. 1,703,350; Feb. 26.  
 Remote-controlled lock. H. E. Goss. 1,721,730; July 23.  
 Removing carbon deposits from engine cylinders. C. A. Hochwalt. 1,726,437; Aug. 27.  
 Removing cloud-forming materials from hydrocarbon oils. C. L. Suhr and W. S. Zehring. 1,737,737; Dec. 3.  
 Removing excess material from dipped articles, Process and apparatus for. L. P. Gould. 1,721,951; July 23.  
 Removing gas pockets from dough. A. H. Tessin. 1,703,182; Feb. 26.  
 Removing grass from railroad tracks. W. J. Valeyly. 1,709,639; Apr. 16.  
 Removing liquid from wells. R. Deming. 1,697,856; Jan. 8.  
 Removing material from centrifugal machines, Apparatus for. E. Gminder. 1,718,688; June 25.  
 Removing plaster of Paris casts from the human body, Device for. C. and R. D. Altman and H. V. Parker. 1,737,552; Dec. 3.  
 Removing roots, Device for. A. J. Kropp. 1,723,943; Aug. 6.  
 Removing sediment from the tanks of oil-burning ships and tankers. S. Guardino. 1,722,211; July 23.  
 Removing surplus spelter from galvanized articles, Apparatus for. W. Rawley and O. A. Pluskey. 1,707,770; Apr. 2.  
 Rendering appliance. A. C. Spooner. 1,737,738; Dec. 3.  
 Rendering glue waterproof. H. L. Prestholdt. 1,701,763; Feb. 12.  
 Renovating locomotives. S. Otis. 1,733,624; Oct. 29.  
 Repair bag, Sectional. C. H. Desautels. 1,737,110; Nov. 26.  
 Repair element for fibrous conduits. H. Parker. 1,704,760; Mar. 12.  
 Repair form. P. H. Puffer. 1,724,724; Aug. 13.  
 Repair stand. J. Korgman. 1,697,921; Jan. 8.  
 Repairing fabrics, Method of and apparatus for. W. H. and S. B. Leavin. 1,708,675; Apr. 9.  
 Repairing fabrics, Method of and apparatus for. R. L. Plumley. 1,708,681; Apr. 9.  
 Repairing leaks in pipe lines. F. N. Woodward. 1,737,181; Nov. 26.  
 Repeater motor, Multistep. E. A. Sperry, jr. 1,715,311; May 28.  
 Repeater selection for toll lines. E. Vroom and J. A. Krecek. 1,708,982; Apr. 16.  
 Reproducer and receiver, Combination. J. N. Pepin. 1,739,768; Dec. 17.  
 Reproducer Electric phonograph. A. A. Thomas. 1,734,542; Nov. 5.  
 Reproducer for phonographs and the like. C. H. Davis. 1,709,391; Apr. 16.  
 Reproducer, Sound-. O. Johnson. 1,698,407-8; Jan. 8.  
 Reproducing apparatus. S. Lempereur and G. Regelsperger. 1,706,238; Mar. 19.  
 Reproducing apparatus. E. I. Sponable. 1,736,139; Nov. 19.  
 Reproducing apparatus, Sound and scene. H. P. Clausen. 1,719,462; July 2.  
 Reproducing device. J. S. High. 1,702,438; Feb. 19.  
 Reproducing device, Sound-. L. De Forest. 1,736,035; Nov. 19.  
 Reproducing plates, Making. M. Herzberg. 1,724,875; Aug. 13.  
 Reproducing position. E. M. Hewlett and W. W. Willard. 1,708,884; Apr. 9.  
 Reproduction from models, Reverse. L. E. Topham. 1,732,345; Oct. 22.  
 Reproduction of sounds telephonically, Apparatus for the. C. S. Babcock. 1,709,201; Apr. 16.  
 Repulper for sedimentation apparatus, Feed. J. Gregorich. 1,739,302; Dec. 10.  
 Reservoir and dash pump, Lubricant. O. U. Zerk. 1,710,959; Apr. 30.  
 Reservoir bleeding system, Auxiliary. R. G. Warren. 1,712,535; May 14.  
 Reservoir, rocker arm, and main-support overhead stamped bearing shaft, Combination oil. J. T. Fagan. 1,699,658; Jan. 22.  
 Resettable register. W. S. Brubaker. 1,730,914; Oct. 8.  
 Resetting derailed railway vehicles on the rails, Arrangement for. E. Abel. 1,720,111; July 9.  
 Reshaping hams, Apparatus for. J. H. Appleton. 1,700,250; Jan. 29.  
 Residues from tanks, pipe systems, and the like, Apparatus for removing liquid. J. Mulder and D. C. Endert, jr. 1,713,910; May 21.  
 Residues from tanks and pipe systems, Removing liquid. J. Mulder and D. C. Endert, jr. 1,713,911; May 21.  
 Resilient attaching strip. H. E. Sipe. 1,723,306; Aug. 6.  
 Resilient clamp. H. S. Jandus. 1,739,236; Dec. 10.  
 Resilient-clip bracket. A. Ashkenas. 1,698,467; Jan. 8.  
 Resilient coupling. A. H. Leipert. 1,707,309; Apr. 2.  
 Resilient cushion. H. A. Rhinevault. 1,732,859; Oct. 22.  
 Resilient cushion. E. A. Weinman and R. C. Beach. 1,711,255; Apr. 30.  
 Resilient member. E. V. Johnson. 1,697,872; Jan. 8.  
 Resilient wheel. F. Berg. 1,717,548; June 18.  
 Resilient wheel. R. J. D'Aquin. 1,721,509; July 23.  
 Resilient wheel. J. B. Dávila. 1,697,681; Jan. 1.  
 Resilient wheel. J. D. Grojean. 1,720,040; July 9.  
 Resilient wheel. E. B. Howell. 1,717,214; June 11.  
 Resilient wheel. J. O. Lewis. 1,698,309; Jan. 8.  
 Resilient wheel. R. H. Prosser. 1,731,059; Oct. 8.  
 Resilient wheel. S. Schoor. 1,741,344; Dec. 31.  
 Resilient wheel. E. J. White. 1,711,819; May 7.  
 Resin and making same, Phenolic. F. Groff and G. W. Miller. 1,720,895; July 16.  
 Resin and making same, Phthalic-glyceride. H. C. P. Weber. 1,715,688; June 4.  
 Resin and making same, Synthetic. E. E. Novotny and C. J. Romieux. 1,738,310; Dec. 3.  
 Resin complex and producing the same, Mixed ester. I. Rosenblum. 1,709,490; Apr. 16.  
 Resin composition and making same, Synthetic. T. F. Bradley. 1,722,554; July 30.  
 Resin composition of the phenol-furfural type, Synthetic. E. E. Novotny and D. S. Kendall. 1,705,493; Mar. 19.  
 Resin composition of the phenol-furfural type, Synthetic. E. E. Novotny and D. S. Kendall. 1,705,496; Mar. 19.  
 Resin composition, Synthetic. E. E. Novotny and D. S. Kendall. 1,705,495; Mar. 19.  
 Resin ester and making same, Composite. C. Ellis. 1,722,566; July 30.  
 Resin from cashew-nut-shell oil. M. T. Harvey. 1,725,791; Aug. 27.  
 Resin-impregnated sheets, Making. G. E. Wightman. 1,703,414; Feb. 26.  
 Resin, Phenol-acetyline. H. W. Matheson and J. A. Nieuwland. 1,707,940; Apr. 2.  
 Resinous condensation product. A. H. V. Durr. 1,739,447-8; Dec. 10.  
 Resinous condensation product and preparing same. A. H. V. Durr. 1,739,446; Dec. 10.  
 Resinous condensation product of phenol and cellulose. E. E. Novotny and C. J. Romieux. 1,721,315; July 16.  
 Resinous condensation products, Molding. G. Mombach. 1,724,501; Aug. 13.  
 Resins and making same, Vinyl ester. H. W. Matheson and F. W. Skirrow. 1,725,362; Aug. 20.  
 Resins and making the same, Urea. L. Smidth. 1,704,348; Mar. 5.  
 Resins, Preparation of. M. Melamid. 1,710,266; Apr. 23.  
 Resins, Preparing coumaron-indene. R. L. Emery. 1,705,857; Mar. 19.  
 Resistance. G. J. Mucher. 1,701,386; Feb. 5.  
 Resistance and reflector unit, Combination. O. C. Britsch. 1,721,292; July 16.  
 Resistance and system controlled thereby, Variable. J. H. Juers. 1,715,761; June 4.  
 Resistance, Changeable. H. R. Van Devanter. 1,718,320; June 25.  
 Resistance device. H. T. Hayden, jr. 1,719,179; July 2.  
 Resistance device, Variable. N. C. Greene. 1,697,238; Jan. 1.  
 Resistance element. R. R. Dunlop. 1,726,476; Aug. 27.  
 Resistance element. H. Martin. 1,732,275; Oct. 22.  
 Resistance element. W. B. Smits. 1,738,456; Dec. 3.  
 Resistance element and making the same. C. Dantsizen. 1,717,193; June 11.  
 Resistance network, Selective-constant-. O. J. Zobel. 1,724,987; Aug. 20.



- Resistance unit. R. R. Dunlop. 1,738,529; Dec. 10.  
Resistance unit. D. Sonkin. 1,702,062; Feb. 12.  
Resistance unit. G. H. Whittingham. 1,706,014; Mar. 19.  
Resistance, Variable. H. P. Donle. 1,697,829; Jan. 1.  
Resistance, variable. S. Loewe. 1,702,086; Feb. 12.  
Resistor. R. Simpson. 1,720,381; July 9.  
Resistor. M. E. Vansickle. 1,722,511; July 30.  
Resistor. G. H. Whittingham. 1,728,091; Sept. 10.  
Resistor and making same. S. Loewe. 1,717,712; June 18.  
Resistor-supporting plate, Refractory. F. E. Owen. 1,705,094; Mar. 12.  
Resistor unit and forming the same. L. E. Power. 1,741,582; Dec. 31.  
Resonance bodies especially for musical instruments, Manufacturing. K. Fuhr. 1,705,153; Mar. 12.  
Resonating dancing plate. J. Esmonde. 1,738,177; Dec. 3.  
Resonator, Piezo-electric. W. G. Cady. Re17,355-9; July 2.  
Respirator. J. R. Gibbs. 1,710,160; Apr. 23.  
Respirator. E. I. McKesson. Re17,512; Dec. 3.  
Rest and exercising appliance for infants. O. P. Welch. 1,738,411; Dec. 3.  
Rest and portable container for electric irons. M. W. McArdle. 1,727,350; Sept. 10.  
Rest, Folding foot and leg. J. A. White. 1,738,810; Dec. 10.  
Rest, Iron. A. K. Poland. 1,717,102; June 11.  
Rest, Steady. E. R. Smith and R. A. Ashton. 1,736,378; Nov. 19.  
Resting device. F. M. Davenport. 1,727,751; Sept. 10.  
Restaurant. R. W. McCready. Des. 80,136; Dec. 17.  
Restaurant-check-protecting device. T. Anthony. 1,698,465; Jan. 8.  
Restaurant order check. E. E. Childs. Des. 79,506; Oct. 1.  
Restaurant system. C. B. St. John. 1,722,342; July 30.  
Restaurant, Waiterless. C. G. Hall. 1,705,112; Mar. 12.  
Restraining device. O. K. Kjolseth. 1,728,831-2; Sept. 17.  
Restraining device. O. K. Kjolseth. 1,740,357; Dec. 17.  
Restraining device. C. H. Mickelsen. 1,724,768; Aug. 13.  
Restraining device and holder. J. A. Hollestelle. 1,705,115; Mar. 12.  
Resurfacing machine. R. T. Gardner. 1,728,487; Sept. 17.  
Retainer for percussive drills, Steel. L. L. Richardson. 1,727,037; Sept. 3.  
Retainer for removable rotary bodies. L. T. Weiss, jr. 1,714,535; May 28.  
Retainer, Pull-rod. G. Krell. 1,702,350; Feb. 19.  
Retaining device. A. F. Bailly. 1,728,849; Sept. 17.  
Retaining device. J. P. Fleming. 1,706,111; Mar. 19.  
Retaining device. H. Schleich. 1,735,132; Nov. 12.  
Retaining device for caps. C. H. Behnke. 1,724,550; Aug. 13.  
Retaining means for removable closures. J. S. Reid. 1,720,350; July 9.  
Retaining means for watch crystals and the like. P. M. Gleason. 1,718,228; June 25.  
Retaining-valve bracket. V. H. Harbert. 1,738,897; Dec. 10.  
Retaining washer, Lubricant-. R. J. Loock. 1,740,929; Dec. 24.  
Retarder for rolling stock. C. E. Fehringer and V. M. Lane. 1,727,163; Sept. 3.  
Retarder, Grain. C. C. Gray. 1,728,238; Sept. 17.  
Retarding chamber. L. A. Grimes. 1,717,773; June 18.  
Retarding mechanism. E. P. Renaux. 1,716,666; June 11.  
Retiring cam. W. Bruns. 1,715,159; May 28.  
Retort. S. B. Mathewson and W. K. Jamison. 1,700,684; Jan. 29.  
Retort. I. B. Newbery. 1,734,774; Nov. 5.  
Retort for treating carbonaceous matter. P. Dvorkovitz. 1,706,825; Mar. 26.  
Retort for use in the distillation of shale and like materials, Vertical. R. H. Crozier. 1,729,418; Sept. 24.  
Retort furnace, Ore-roasting. R. A. Bennett. 1,723,006; Aug. 6.  
Retort, Gas. H. Koppers. 1,725,148-9; Aug. 20.  
Retort-operating apparatus. J. Bradley. 1,742,023; Dec. 31.  
Retort, Rotary. T. A. W. Dwyer. 1,703,418; Feb. 26.  
Retorts, Apparatus for discharging vertical. F. B. Richards and J. W. Reber. 1,732,064; Oct. 15.  
Retorts, Feeding device for. R. B. Parker. 1,737,170; Nov. 26.  
Refractor. C. E. Hodlick and O. Keller. 1,727,879; Sept. 10.  
Refractor. E. P. Sloan. 1,707,689; Apr. 2.  
Retreading mold. K. K. A. Thorsen. 1,703,970; Mar. 5.  
Retreading mold, Tire-. F. L. Smith, J. S. Caulfield, and C. J. Peterson. 1,710,804; Apr. 30.  
Return trap. C. H. Dutcher. 1,699,464; Jan. 15.  
Return trap. F. M. Webster. 1,714,199; May 21.  
Reverberatory furnace, Ring-flow. H. G. Lykken. 1,734,387; Nov. 5.  
Reverse brake. C. A. Matson. 1,713,392; May 14.  
Reverse brake. M. A. Mikes. Re17,458; Oct. 15.  
Reverse brake, Automatic. C. A. Matson. 1,713,391; May 14.  
Reversible end gate. J. P. Olsen. 1,710,944; Apr. 30.  
Reversible motor. A. H. Skaer, T. E. Barker, and O. E. Clark. 1,700,379; Jan. 29.  
Reversing and controlling apparatus for heating furnaces. G. H. Isley. 1,721,735; July 23.  
Reversing mechanism, Motion-. J. T. Dillon. 1,707,053; Mar. 26.  
Reversing mechanism, Remotely-controlled. W. K. Liggett. 1,718,160; June 18.  
Reversing switch. O. F. Shepard. 1,713,304; May 14.  
Reversing switch for train-control systems. C. S. Bushnell. 1,717,333; June 11.  
Revivification of used kieselguhr. R. Calvert. 1,717,661; June 18.  
Revivifying fuller's earth. F. W. Hall. 1,709,261; Apr. 16.  
Revivifying spent clarifying and decolorizing agents. M. L. Chappell. 1,715,535; June 4.  
Revolving light. R. B. Ferrey. 1,711,932; May 7.  
Rheostat. E. A. Bohlman. 1,739,942; Dec. 17.  
Rheostat. G. W. Elmwall. 1,706,570; Mar. 26.  
Rheostat. H. H. Frost. 1,730,499; Oct. 8.  
Rheostat. R. M. Heintz. 1,733,984; Oct. 29.  
Rheostat. F. F. Hillix. 1,718,957; July 2.  
Rheostat. R. H. Maxson. 1,705,299; Mar. 12.  
Rheostat. E. H. Moore. 1,728,186; Sept. 17.  
Rheostat. M. L. Norris. 1,728,004; Sept. 10.  
Rheostat. E. R. Stoeckle. 1,704,153; Mar. 5.  
Rheostat. W. E. Thorn. 1,704,775; Mar. 12.  
Rheostat and switch, Combined. L. Caruso. 1,697,412; Jan. 1.  
Rheostat, Filament. S. F. Briggs. 1,716,513; June 11.  
Rheostat fixture for electric lights. C. L. Weichelt and H. F. Gill. 1,715,396; June 4.  
Rheostat, Liquid. E. S. Acheson. 1,707,070; Mar. 26.  
Rheostat, Resistance. H. G. Smith. 1,707,147; Mar. 26.  
Ribbon and the like roll pack. A. J. Harris. 1,739,549; Dec. 17.  
Ribbon clasp. C. W. Bieser. 1,698,530; Jan. 8.  
Ribbon-feed mechanism. J. H. Barr. 1,717,362; June 18.  
Ribbon shift for typewriters. M. Garbell. 1,702,938; Feb. 19.  
Rice husker and flour mill, Combination. A. L. Romero. 1,710,459; Apr. 23.  
Riddle. V. J. Davis. 1,728,335; Sept. 17.  
Ridge-cap-forming machine. J. and H. Fulenwider, E. W. Robinson, and H. Norris. 1,730,361; Oct. 8.  
Ridge cutter. D. W. Walker. 1,711,071; Apr. 30.  
Ridge-roll ventilator. W. A. Moore. 1,717,728; June 18.  
Ridger. C. B. and E. R. Polhemus. 1,740,874; Dec. 24.  
Ridging and blocking machine. O. Domries. 1,724,646; Aug. 13.  
Riding machine. W. S. Booth. 1,700,117; Jan. 29.  
Rifle. G. A. Harris. 1,731,660; Oct. 15.  
Rifle, Horizontal and vertical. R. Rea. 1,725,765; Aug. 27.  
Rifle-cleaning rod. R. F. Waren. 1,739,933; Dec. 17.  
Rifle, Double-acting. A. Bochnak. 1,712,131; May 7.  
Rifle, Magazine. J. D. Pedersen. 1,737,974; Dec. 3.  
Rifles, Auxiliary magazine for automatic. W. R. Framp-ton and W. R. Reed. 1,734,852; Nov. 5.  
Rig for trucks, Object-holding. W. C. Brinton. 1,720,204; July 9.  
Rig, Rotary. H. Pennington. 1,741,140; Dec. 24.  
Rim and fastening means for the same, Demountable. J. H. Wagenhorst. 1,739,877; Dec. 17.  
Rim and tire lock, Demountable. R. W. H. Thomas. 1,702,139; Feb. 12.  
Rim and wheel for automobiles and other vehicles, Combined demountable. C. S. Watkins. 1,721,679; July 23.  
Rim attachment, Demountable. J. Leonard. 1,708,676; Apr. 9.  
Rim, Automobile wheel. J. H. Wagenhorst. 1,697,439; Jan. 1.  
Rim breaker. W. J. Farmer. 1,728,159; Sept. 10.  
Rim breaker. J. A. Leask. 1,720,281; July 9.  
Rim, Demountable. G. E. Anderson. 1,716,845; June 11.  
Rim, Demountable. J. A. Callant. 1,730,803; Oct. 8.  
Rim, Demountable. C. B. Gunn and A. J. Dohogne. 1,702,601; Feb. 19.  
Rim, Demountable. F. P. Hatch. 1,737,236; Nov. 26.  
Rim, Demountable. T. A. Keck, jr. 1,702,163; Feb. 12.  
Rim, Demountable. A. D. Macgillivray. 1,698,022; Jan. 8.  
Rim, Demountable. J. G. Swain. 1,697,797; Jan. 1.  
Rim expanding and contracting device. C. M. Gardner. 1,715,195; May 28.  
Rim for dome lights or the like. G. Graff. Des. 77,762-3; Feb. 19.  
Rim for dome lights or the like. G. Graff. Des. 79,652; Oct. 22.  
Rim for motor truck wheels. R. R. Keith. 1,740,738; Dec. 24.  
Rim for pneumatic tires. W. H. Paull. 1,718,874; June 25.  
Rim for use with pneumatic tires, Metal. P. M. Bourdon. 1,730,261; Oct. 1.  
Rim joint, Demountable. P. M. Miller. 1,733,972; Oct. 29.  
Rim lock. W. A. Clench. 1,728,262; Sept. 17.  
Rim lock. B. S. Moore. 1,698,960; Jan. 15.  
Rim lock. B. S. Moore. 1,701,306; Feb. 5.  
Rim lock, Demountable. H. Foreman. 1,712,880; May 14.  
Rim on cyanide pots, Cooled. C. H. Carpenter and A. D. Keene. 1,705,714; Mar. 19.  
Rim-stretching device for eyeglass and spectacle frames. J. W. Welsh. 1,734,411; Nov. 5.  
Rim, Tire. A. Furrer. 1,710,614; Apr. 23.  
Rim, Wheel. W. C. Tunno. 1,737,742; Dec. 3.  
Rim wheel, Demountable. W. E. Williams. 1,704,524; Mar. 5.



- Rims for wire wheels, Forming. C. S. Ash. 1,715,266; May 28.
- Rims, Forming. J. Strama. 1,718,610; June 25.
- Rims from tires, Device for removing. J. Anderson. 1,729,861; Oct. 1.
- Rimming press. A. R. Krause. 1,740,987; Dec. 24.
- Ring: *See*—
- Clutch ring. Piston ring.
  - Curtain ring. Piston-rod packing ring.
  - Drive ring. Sealing ring.
  - Finger ring. Self-cleaning cup ring.
  - Hog ring. Spring ring.
  - Packing ring. Traveling ring.
  - Pie ring. Two-finger ring.
- Ring. V. Arkebauer. Des. 799,414; Sept. 17.
- Ring. G. Beaujard, Jr. 1,712,417; May 7.
- Ring. A. W. Cohen. Des. 77,394; Jan. 8.
- Ring. P. Cohen and M. Rossein. 1,718,113; June 18.
- Ring. F. H. Hill. Des. 78,754; June 18.
- Ring. G. A. Meell. Des. 77,384; Jan. 1.
- Ring. G. A. Meell. Des. 77,908; Mar. 5.
- Ring. H. E. Muchnic. 1,718,758; June 25.
- Ring. A. Sager. Des. 79,671; Oct. 22.
- Ring. J. H. Schaeffer. Des. 79,259; Aug. 20.
- Ring. J. G. Schwab. Des. 78,538; May 14.
- Ring and constructing and assembling the same, Finger. T. Mountford. 1,705,992; Mar. 19.
- Ring book. H. R. McCleary. 1,699,901; Jan. 22.
- Ring construction. T. Mountford. 1,731,786; Oct. 15.
- Ring for chandeliers. C. W. Logan. Des. 78,165; Apr. 2.
- Ring for furnaces, Combustion. A. C. Mott, Jr., and C. H. Wheavill. 1,702,977; Feb. 19.
- Ring for hogs, Muzzle. L. P. Lewis. 1,736,927; Nov. 26.
- Ring guard, Finger. E. D. Becker and A. E. Elliott. 1,741,908; Dec. 31.
- Ring guards, Producing finger-. H. Levin. 1,712,276; May 7.
- Ring-joint cutter. J. Shaw. 1,731,639; Oct. 15.
- Ring or article of similar nature. B. Gross. Des. 78,885; July 2.
- Ring or article of similar nature, Finger. B. Gross. Des. 79,000; July 16.
- Ring or article of similar nature, Finger. B. Gross. Des. 79,463-5; Sept. 24.
- Ring or similar article, Finger. E. J. Gross. Des. 78,352; Apr. 23.
- Ring or similar article, Finger. E. J. Gross. Des. 80,009; Nov. 26.
- Ring or similar article, Finger. J. L. Herzog and L. Hirsch. Des. 77,358-9; Jan. 1.
- Ring-roll mill. T. J. Sturtevant. 1,739,487; Dec. 10.
- Ring-rolling machine. J. H. Taylor. 1,726,777; Sept. 3.
- Ring setting. C. Birnbaum. 1,731,190; Oct. 7.
- Ring-spinning frames for woolsens. P. Jowett and M. C. Marsh. 1,728,414; Sept. 17.
- Ring structure, Finger-. J. Chernick. 1,721,071; July 16.
- Ring traveler. G. H. Gilligan. 1,728,540; Sept. 17.
- Ring-traveler functions, Analyzing. P. C. Wentworth. 1,717,642; June 18.
- Ring, Wedding. J. Goldstein and B. Rosenthal. Des. 77,688; Feb. 12.
- Ringer. W. H. Edwards. 1,697,057; Jan. 1.
- Rings for radial-flow turbines, Making blade. O. A. Wiberg. 1,740,800; Dec. 24.
- Rings from tubing, Making. G. E. Neuberth. 1,728,897; Sept. 17.
- Rings, Making finger. H. W. Peters. 1,708,324; Apr. 9.
- Rings, Making finger. H. W. Peters. 1,740,369; Dec. 17.
- Rings, Manufacturing split. A. J. Mummert. 1,698,481; Jan. 8.
- Rinsing machine. G. J. McGann. 1,722,813; July 30.
- Ripsaw. W. Skowron. 1,726,772; Sept. 3.
- Ripsawing machine. H. Drusch. 1,697,497; Jan. 1.
- Rivet bucket, Pneumatic. W. R. Hodges. 1,708,300; Apr. 9.
- Rivet-calking device. B. T. Kehoe. 1,729,346; Sept. 24.
- Rivet, Emergency. T. M. Foss. 1,700,354; Jan. 29.
- Rivet-feeding mechanism. E. B. Stimpson. 1,730,750; Oct. 8.
- Rivet header, Single-blow tubular. F. J. St. Pierre. 1,730,954; Oct. 8.
- Rivet passer, Pneumatic. W. L. Gray. 1,728,605; Sept. 17.
- Rivet-setting machine. A. R. Havener. 1,707,911; Apr. 2.
- Rivet-setting machine. A. R. Havener. 1,716,852; June 11.
- Rivet-setting machine. A. D. Rhodes. 1,698,922; Jan. 15.
- Rivet-setting machine, Twin-. W. E. Bartel. 1,733,713; Oct. 29.
- Riveter. J. C. Hanna. 1,707,006; Mar. 26.
- Riveter, Squeeze. C. H. Peck. 1,721,279; July 16.
- Riveter suspension. J. C. Hanna. 1,722,793; July 30.
- Riveting machine. F. Davis and A. Grothus. 1,729,247; Sept. 24.
- Riveting machine. A. Seabloom. 1,731,063; Oct. 8.
- Riveting machine. E. B. Stimpson. 1,731,358-62; Oct. 15.
- Riveting machine. E. B. Stimpson. 1,731,399; Oct. 15.
- Riveting machine, Double-toggle. R. E. Manley. 1,722,530; July 30.
- Riveting machine, Electric. J. A. Spencer. 1,718,715; June 25.
- Riveting machines, Head for movable. E. W. Larsen. 1,739,152; Dec. 10.
- Riveting, Method and apparatus for. S. F. Tapman. 1,721,263; July 16.
- Riving machine. E. Miller. 1,730,376; Oct. 8.
- Roadbed. W. M. Osborn. 1,735,296; Nov. 12.
- Roadbed construction for street railways and constructing the same. W. P. Day. 1,738,043; Dec. 3.
- Roadbed for railways. M. Rüping. 1,702,841; Feb. 19.
- Road-charting apparatus. O. C. Nichols. 1,712,736; May 14.
- Road construction. C. Stenbol. 1,707,372; Apr. 2.
- Road construction. R. C. Taylor. 1,709,923; Apr. 23.
- Road construction, Penetration method of. E. C. Wallace. 1,740,718; Dec. 24.
- Road-ditch-cleaning attachment for tractors. A. Ericson. 1,721,011; July 16.
- Road drag. P. M. Skinner. 1,727,181; Sept. 3.
- Road finder. C. B. Hokanson. 1,726,563; Sept. 3.
- Road finder. W. H. Kirby. 1,725,644; Aug. 20.
- Road form, Concrete. F. G. Ginnetti. 1,710,574; Apr. 23.
- Road-grader attachment. A. J. Fallert. 1,738,880; Dec. 10.
- Road grader, Supplemental. F. D. Wilson. 1,710,329; Apr. 23.
- Road graders, Slide shoe for. C. C. Shaw. 1,713,882; May 21.
- Road guide and map-drawing apparatus. J. S. Grafström. 1,718,689; June 25.
- Road illumination. N. M. Michailovsky. 1,713,294; May 14.
- Road machine. R. S. Pellette. 1,704,922; Mar. 12.
- Road machine. A. G. and A. Ronning. 1,706,257; Mar. 19.
- Road machine. D. Wheeler. 1,722,725; July 30.
- Road machines, Attachment for. W. A. Williams. 1,710,132; Apr. 23.
- Road maintainer. W. B. Hargleroad. 1,721,075; July 16.
- Road-making machine. P. Castellano and J. Augello. 1,712,549; May 14.
- Road-marking machine. W. S. Nissly. 1,709,091; Apr. 16.
- Road-material spreader and surfacer. R. S. Troyer. 1,724,054; Aug. 13.
- Road materials, Apparatus for spreading and leveling. A. E. Schutte. 1,739,804; Dec. 17.
- Road-preparing machine. C. E. Whittenberg. 1,722,547; July 30.
- Road scarifier. V. S. Reed. 1,724,363; Aug. 13.
- Road-stamping machine. E. H. Carlsson. 1,709,562; Apr. 16.
- Road-strip and dowel-bar support. W. E. White. 1,727,951; Sept. 10.
- Road strip, Construction. R. R. Robertson. 1,741,585; Dec. 31.
- Road structure. S. B. Moore. 1,704,900; Mar. 12.
- Road-surfacing compositions in situ, Apparatus for preparing. S. E. Finley. 1,729,574; Sept. 24.
- Road surfacing compositions in situ, Preparing. S. E. Finley. 1,729,573; Sept. 24.
- Road-tamping machine. E. H. Carlsson. 1,725,057; Aug. 20.
- Roads and the like, Construction of. L. H. A. Dunker. 1,737,412; Nov. 26.
- Roads, Construction of. S. S. Sadtler. 1,705,066; Mar. 12.
- Roads for heavy traffic and having a foundation course of sand, Construction of. S. S. Sadtler. 1,705,067; Mar. 12.
- Roads having a foundation course of sand, Construction of. S. S. Sadtler. 1,705,068; Mar. 12.
- Roads with reinforced concrete, Covering. C. J. M. Lancette. 1,715,766; June 4.
- Roadway and making the same. S. S. Sadtler. 1,706,077; Mar. 19.
- Roadway or pavement. E. A. Tucker. 1,727,253; Sept. 3.
- Roadway with improved curbstone and gutter. C. Rothmann. 1,707,574; Apr. 2.
- Roadways and other structures and making the same, Foundation for. S. S. Sadtler. 1,706,078; Mar. 19.
- Roaster: *See*—
- Cocoa roaster. Self-basting and turning roaster.
  - Meat roaster. roaster.
  - Pimento roaster.
- Roaster. J. C. F. Moore. 1,700,614; Jan. 29.
- Roaster for chestnuts and the like. S. Yamada. 1,730,550; Oct. 8.
- Roasting and broiling Frankfurters. D. and S. Gold and A. M. Young. 1,706,225; Mar. 19.
- Roasting, baking, and steaming, Device for. H. Drehmann. 1,723,413; Aug. 6.
- Roasting furnace. N. T. Wellman. 1,721,265; July 16.
- Roasting furnace, Mechanical. G. Balz. 1,734,552; Nov. 5.
- Roasting machine, Frankfurt-. F. L. Morrow. 1,716,653; June 11.
- Roasting machine, Portable. C. L. Wilkowski. 1,733,766; Oct. 29.
- Roasting spit, Electrically-operated. M. H. Spielman. 1,738,328; Dec. 3.
- Robe, Lap. B. M. Foote. 1,706,224; Mar. 19.
- Robe rail. G. Graff. Des. 77,827; Feb. 26.
- Robe rail. G. Graff. Des. 77,897; Mar. 5.
- Robe rail and handle, Combination. G. L. Hinman. 1,717,032; June 11.
- Robe rail or the like, Flexible. R. F. Smith. 1,701,056; Feb. 5.
- Rock boundaries, Method and apparatus for determining the slope of subsurface. B. McCollum. 1,724,495; Aug. 13.



- Rock crusher. A. W. Barton, E. Du Lac, and E. M. Ferguson. 1,708,562; Apr. 9.
- Rock crusher. J. Bossart. 1,721,246; July 16.
- Rock drill. O. E. Clark. 1,733,402; Oct. 29.
- Rock drill. H. R. Drullard. 1,718,734; June 25.
- Rock drill. E. G. Gartin. 1,730,322; Oct. 1.
- Rock drill. E. G. Gartin. 1,740,684; Dec. 24.
- Rock drill. M. Hardsock. 1,718,462-3; June 25.
- Rock drill. A. H. Katterjohn. 1,709,024; Apr. 16.
- Rock drill. J. M. Siebert and G. L. Warren. 1,707,882; Apr. 2.
- Rock drill. A. H. Skaer. 1,700,380; Jan. 29.
- Rock drill. A. H. Skaer, T. E. Barker, A. H. Katterjohn, and O. E. Clark. 1,700,378; Jan. 29.
- Rock drill. F. M. Slater. 1,740,122; Dec. 17.
- Rock drill. R. H. Wilhelm. 1,713,859; May 21.
- Rock drill, Separable. O. Garino. 1,738,883; Dec. 10.
- Rock-picking machine. J. A. Mandel. 1,722,932; July 30.
- Rockshaft, Brake-operating. H. Ford. 1,726,815; Sept. 3.
- Rocker. E. T. Bleecker. Des. 80,103; Dec. 17.
- Rocker and bed for children, Combined. J. Brabec. 1,722,408; July 30.
- Rocker and high chair, Combination. E. G. Hocking and R. H. Taylor. 1,729,941; Oct. 1.
- Rocker arm. J. T. Fagan. 1,699,656; Jan. 22.
- Rocker arm and rocker-arm assembly. J. T. Fagan. 1,699,657; Jan. 22.
- Rocker arm and rocker-arm shaft. J. T. Fagan. 1,699,659; Jan. 22.
- Rocker, Mechanical. H. J. Fairweather. 1,704,914; Mar. 12.
- Rocket, Rotary. T. G. Hitt. 1,714,671; May 28.
- Rocking-chair. E. A. Nicholson. 1,696,966; Jan. 1.
- Rocking-chair, Folding. J. D. Zentmyer. 1,711,371; Apr. 30.
- Rocking-chair, Tête-à-tête. F. S. Smith. 1,730,304; Oct. 1.
- Rocking or hobby horse. F. W. Brackett. 1,730,557; Oct. 8.
- Rod: See—
- Brake rod. Hair-curling rod.
- Connecting rod. Insulating rod.
- Curtain rod. Pull rod.
- Distance rod. Sucker rod.
- Extensible rod. Tie rod.
- Fishing rod. Welding rod.
- Rod and gun, Combined. E. C. Taylor and D. B. Mackie. 1,728,455; Sept. 17.
- Rod and piston construction, Connecting. C. E. Barnes and J. A. Johnson. 1,739,705; Dec. 17.
- Rod and shade stick, Curtain. J. G. Bowman. 1,703,862; Mar. 5.
- Rod bracket, Multiple. J. Rasp. 1,713,299; May 14.
- Rod clamp, Drill-. W. J. Mitchell. 1,730,619; Oct. 8.
- Rod clamp, Leveling. A. Laugsner. 1,725,531; Aug. 20.
- Rod coupling. S. S. Bradshaw and C. A. Martindale. 1,728,099; Sept. 10.
- Rod coupling. A. M. Seger. 1,736,373; Nov. 19.
- Rod coupling, Sucker-. B. F. Cargile. 1,717,186; June 11.
- Rod elevator. R. F. Tuck. 1,709,880; Apr. 16.
- Rod elevator, Sucker-. E. E. Stevenson. 1,721,533; July 23.
- Rod end, Drapery-. S. Matosian. Des. 78,359-62; Apr. 23.
- Rod-feeding device. E. O. Malcolm. 1,714,684; May 28.
- Rod for use in arc welding or cutting. J. B. Green. 1,733,795; Oct. 29.
- Rod grip. W. D. Shaffer. 1,735,937; Nov. 19.
- Rod guide. J. C. Smith. 1,706,499; Mar. 26.
- Rod guide, Sucker-. S. B. Merrick. 1,730,158; Oct. 1.
- Rod hanger. J. D. Nixon. 1,705,583; Mar. 19.
- Rod hanger, Ceiling-. E. C. Marqua and S. J. Callahan. 1,739,079; Dec. 10.
- Rod-line carrier, Self-lubricating. W. W. Moore. 1,712,006; May 7.
- Rod-mill inlet and outlet control. R. A. North. 1,726,917; Sept. 3.
- Rod-packing element. A. C. Judd. 1,716,524; June 11.
- Rod-pin lubricator, Locomotive-. D. Jones. 1,701,618; Feb. 12.
- Rod-pin lubricator, Locomotive-. H. J. Swanson. 1,701,645; Feb. 12.
- Rod rotor, Universal polished-. A. Boynton. 1,712,868; May 14.
- Rod spacer, Sucker-. P. R. G. Biedermann. 1,724,176; Aug. 13.
- Rod-straightening machine. W. W. Leck. 1,713,138; May 14.
- Rod-supporting means. F. W. Siegel. 1,731,113; Oct. 8.
- Rods, Attachment for sucker. N. T. Goolsby. 1,727,284; Sept. 3.
- Rods, Making sucker. W. W. Leck. 1,724,032; Aug. 13.
- Rodent trap. G. Hanson. 1,713,900; May 21.
- Rodent trap. W. G. Ramsey, E. S. Eichenlaub, and J. M. Barnville. 1,722,857; July 30.
- Roll-adjusting mechanism. C. H. Manion. 1,703,349; Feb. 26.
- Roll balancing. H. L. Kutter. 1,733,378; Oct. 29.
- Roll, Beater. F. G. Feeley. 1,702,633; Feb. 19.
- Roll-change device. D. J. Scott. 1,724,225; Aug. 13.
- Roll changer. H. V. Ball. 1,716,812; June 11.
- Roll construction and frame member therefor. O. Mitchell. 1,727,128; Sept. 3.
- Roll-controlling mechanism, Web-. H. V. Ball. 1,716,613; June 11.
- Roll-crusher teeth. G. E. Krider. 1,718,050; June 18.
- Roll for cane mills, crushers, and the like. D. Milne. 1,700,571; Jan. 29.
- Roll for milk-drying machines and making. G. Overton. 1,718,977; July 2.
- Roll for textile machinery. W. A. Tebo. 1,741,351; Dec. 31.
- Roll-forming machine, Slip-. P. R. Hahnnemann. 1,735,243; Nov. 12.
- Roll-forming machines, Throw-off device for Vienna-. C. Gottfried. 1,708,758; Apr. 9.
- Roll heater. H. E. McCrery. 1,699,902; Jan. 22.
- Roll-making machine. C. Gottfried. 1,741,694; Dec. 31.
- Roll mechanism, Ductor-. W. M. Kelly. 1,700,680; Jan. 29.
- Roll-paper retainer. W. D. White. 1,734,317; Nov. 5.
- Roll-spreading jack. F. M. Morton. 1,707,870; Apr. 2.
- Roller: See—
- Adhesive-tape roller. Mill roller.
- Curtain roller. Paint roller.
- Dough roller. Printing roller.
- Feed roller. Sash roller.
- Film-retaining roller. Sectional transfer roller.
- Furnace roller. Shade roller.
- Ground roller. Spader roller.
- Inking roller. Suction-feed roller.
- Land roller. Vibrating roller.
- Lawn roller.
- Roller. R. R. Ware. 1,697,485; Jan. 1.
- Roller bit. C. H. M. Bull. 1,734,760; Nov. 5.
- Roller-coaster tracks, Laminated construction for. F. A. Church. 1,741,286; Dec. 31.
- Roller construction, Awnings. D. Froehlich. 1,703,000; Feb. 19.
- Roller conveyer. K. Schulte. 1,725,740; Aug. 20.
- Roller drill. R. O. Pickin. 1,720,401; July 9.
- Roller for gravity carriers. C. A. Adams. 1,720,255; July 9.
- Roller for cotton gins. A. Karrer. 1,731,534; Oct. 15.
- Roller-locking device. C. Andrade, jr. 1,706,867; Mar. 26.
- Roller mechanism, Feed-. C. E. Moore. 1,740,366; Dec. 17.
- Roller mill. A. Voegel. 1,730,906; Oct. 8.
- Roller of spinning, twisting, roving, and analogous machines. W. Prince-Smith and D. Waterhouse. 1,710,275; Apr. 23.
- Roller screen. J. F. Kaletay. 1,740,816; Dec. 24.
- Roller screen. G. Perior. 1,738,608; Dec. 10.
- Roller screen. H. W. Valentine. 1,712,594; May 14.
- Roller sheave. V. Monroe. 1,712,478; May 7.
- Roller suspension, Progressive. J. R. Jones. 1,705,571; Mar. 19.
- Roller weir. F. Duwe. 1,736,850; Nov. 26.
- Roller weir with extension gate. F. Duwe. 1,736,851; Nov. 26.
- Rollers and printing cylinders of printing machines, Cleaning of the inking. E. J. Smith. 1,730,302; Oct. 1.
- Rollers for roller bearings, Manufacture of. H. H. Timken. 1,701,736; Feb. 12.
- Rollers of spinning, doubling, twisting, and like machines, Drawing. A. and C. Rhodes. 1,711,808; May 7.
- Rollers with rubber, Method of and apparatus for covering cylindrical. C. H. Gray. 1,736,911; Nov. 26.
- Rolling disks and rolling mill therefor. O. M. Otte. 1,708,321; Apr. 9.
- Rolling-down machine. A. Schroeder. 1,703,431; Feb. 26.
- Rolling mill. T. R. Akin, L. Young, and F. C. Biggert, jr. 1,729,696; Oct. 1.
- Rolling mill. W. C. Coryell. 1,737,785; Dec. 3.
- Rolling mill. J. E. Fries. 1,716,039; June 4.
- Rolling mill. J. Gassen. 1,714,084; May 21.
- Rolling mill. H. R. Gear. 1,735,746; Nov. 12.
- Rolling mill. C. Gielow. 1,725,630; Aug. 20.
- Rolling mill. L. Iversen, assignor to Mesta Machine Company. 1,700,054; Jan. 22.
- Rolling mill. E. Kronenberg. 1,697,012; Jan. 1.
- Rolling mill. L. Löwy. 1,730,012; Oct. 1.
- Rolling mill. T. A. Schraishahn. 1,717,586; June 18.
- Rolling mill. R. C. Walter. 1,709,448; Apr. 16.
- Rolling mills, Blank-serving apparatus for. E. A. Nelson. 1,739,854; Dec. 17.
- Rolling screen. N. H. Nelson. 1,715,858; June 4.
- Rolling screen. R. E. Pitcher. 1,736,668; Nov. 19.
- Rolling screen. J. Szako. 1,716,285; June 4.
- Rolling stock of railways, tramways, and road transport vehicles. P. Algrain. 1,728,096; Sept. 10.
- Rolling wide strips. N. C. Rendleman. 1,715,330; May 28.
- Rolls and bedplates, Apparatus for grinding corrugated. E. B. Jones. 1,707,555; Apr. 2.
- Rolls and nonfraying material, Apparatus for producing. M. Hamburger and C. H. Fogle. 1,707,611; Apr. 2.
- Rolls and the like, Apparatus for casting chill. W. H. Nichols. 1,721,969; July 23.
- Röntgen tube. F. Eckert. 1,703,391; Feb. 26.
- Roof. J. H. Griffin. 1,728,795; Sept. 17.
- Roof. C. A. McManamay. 1,715,243; May 28.
- Roof. F. C. Overbury. 1,705,497; Mar. 19.
- Roof, Air-cooled floating. C. F. H. Bohnhardt. 1,714,207; May 21.
- Roof and floor. E. C. Hoge. 1,721,393; July 16.
- Roof and floor, Structural. J. C. Lathrop. 1,709,028; Apr. 16.
- Roof arch or wall for combustion chambers. A. V. De Grand. 1,693,395; Jan. 8.
- Roof bracket. J. Krumholz. 1,732,973; Oct. 22.
- Roof, Built-up. J. P. Stagg. 1,705,160; Mar. 12.



- Roof, Car. C. D. Bonsall. 1,709,603; Apr. 16.  
 Roof, Car. C. D. Bonsall. 1,724,745; Aug. 13.  
 Roof, Car. C. D. Bonsall. 1,732,254; Oct. 22.  
 Roof, Car. C. D. Bonsall and P. E. Finger. 1,724,746; Aug. 13.  
 Roof, Car. E. G. Franck. 1,736,038; Nov. 19.  
 Roof, Car. A. E. Small. 1,696,980; Jan. 1.  
 Roof, Car. A. R. Wilson. 1,703,974; Mar. 5.  
 Roof, Constructing an arched. J. H. W. Bower. 1,733,004; Oct. 22.  
 Roof construction. E. Heidtmann. 1,707,553; Apr. 2.  
 Roof construction. C. J. Richards. 1,702,414-15; Feb. 19.  
 Roof covering. G. Ritter. 1,737,977; Dec. 3.  
 Roof-deck construction. Metal. T. H. Kane. 1,706,924; Mar. 26.  
 Roof drain. T. J. and J. H. Flynn. 1,710,304; Apr. 23.  
 Roof flashing. E. C. Ewer and W. G. Waldron. 1,721,550; July 23.  
 Roof flashing. W. C. Hopson. 1,704,942; Mar. 12.  
 Roof flashing. S. J. Schindler. 1,721,715; July 23.  
 Roof flashing. F. Young. 1,700,619; Jan. 29.  
 Roof for oil tank. Floating. C. A. Glass. 1,698,158; Jan. 8.  
 Roof for toy cars. M. Caruso. 1,704,553; Mar. 5.  
 Roof frame. Tent. A. L. Frank. 1,709,568; Apr. 16.  
 Roof, Freight-car. G. R. Joughins and E. M. Joughin. 1,703,149; Feb. 26.  
 Roof jack. W. H. Othick. 1,722,762; July 30.  
 Roof joint. Metallic. E. J. Hayman. Des. 17,442; Sept. 24.  
 Roof-lining construction. Automobile. R. T. Markee. 1,741,946; Dec. 31.  
 Roof, Liquid-seal expansion. C. F. H. Bohnhardt. 1,714,209; May 21.  
 Roof, Metallic. P. M. Kuehn. 1,729,946; Oct. 1.  
 Roof of motor cars and like vehicles of the inclosed or saloon type. H. N. Barnes. 1,738,060; Dec. 3.  
 Roof or eave edging. L. T. Petersen. 1,723,204; Aug. 6.  
 Roof or the like. Bus. A. G. Hawkes. 1,706,527; Mar. 26.  
 Roof or the like structure. S. Lake. 1,723,185; Aug. 6.  
 Roof saddle for stovepipes. Adjustable. A. R. Hoelt. 1,703,670; Feb. 26.  
 Roof slab, Precast. J. C. Lathrop. 1,726,031; Aug. 27.  
 Roof structure. F. E. Sherriff. 1,702,640; Feb. 12.  
 Roof structure. Saw-tooth-. H. A. Hamm and R. P. Miller. 1,737,371; Nov. 26.  
 Roof, Tile. C. A. Statler. 1,699,213; Jan. 15.  
 Roof. Vehicle. H. House. 1,703,395; Feb. 26.  
 Roofing. O. A. Heppes. 1,722,962; July 30.  
 Roofing. W. H. Houghton. 1,738,006; Dec. 3.  
 Roofing. P. S. MacMichael. 1,725,466; Aug. 20.  
 Roofing. R. C. Neptune. 1,722,760; July 30.  
 Roofing. C. E. Rahr. 1,700,774; Feb. 5.  
 Roofing. R. S. Reynolds. 1,723,076; Aug. 6.  
 Roofing and building sheet, Corrugated. L. Lane. 1,732,368; Oct. 22.  
 Roofing and making same, Metallic surfaced. L. Kirschbraun. 1,698,267; Jan. 8.  
 Roofing and other sheet and making same. F. J. Commin and A. H. J. Wright. 1,700,561; Jan. 29.  
 Roofing, Apparatus for making prepared. W. T. Hofmann. 1,697,464; Jan. 1.  
 Roofing, Apparatus for making prepared. T. Robinson. 1,716,505; June 11.  
 Roofing, Asphalt-surfaced. A. R. Lukens and J. S. Maynard. 1,719,118; July 2.  
 Roofing attachment. A. C. Fischer. 1,723,927; Aug. 6.  
 Roofing element. G. R. Stark. 1,698,032; Jan. 8.  
 Roofing joint. E. J. Hayman. 1,723,166; Aug. 6.  
 Roofing joint. N. A. Ochiltree. 1,710,890; Apr. 30.  
 Roofing material. A. H. Irving. 1,705,015; Mar. 12.  
 Roofing material. R. S. Reynolds. 1,727,132; Sept. 3.  
 Roofing material, Process and apparatus for making. J. H. Gillis. 1,701,918; Feb. 12.  
 Roofing, Sheet. R. C. Neptune. 1,710,104; Apr. 23.  
 Roofing slab. J. M. Richardson. 1,741,536; Dec. 31.  
 Roofing strip. M. L. Caton. 1,741,403; Dec. 31.  
 Roofing unit and process of manufacture, Strip. F. C. Overbury. 1,698,891; Jan. 15.  
 Roofs for liquid-storage tanks and gas holders, Building. J. H. Wiggins. 1,731,283; Oct. 15.  
 Room and information rack, Hotel clerk's. J. C. McKinney. 1,739,850; Dec. 17.  
 Room construction, Conditioning-. D. Thompson. 1,723,097; Aug. 6.  
 Room, Finishing. R. F. Onsrud. 1,697,079; Jan. 1.  
 Room indicator, Hospital-. W. S. Bing. 1,727,629; Sept. 10.  
 Room in railroad cars. F. F. Thompson and R. J. Ellsworth. 1,721,755; July 23.  
 Roost, litter carrier, and window, Combination. R. O. Leach. 1,741,159; Dec. 31.  
 Roost, Sanitary expansible. J. C. Wobermin. 1,717,537; June 18.  
 Root-cutting machine. W. G. Hagmaier and E. C. Shaw. 1,740,086; Dec. 17.  
 Rope and making same, Wire. E. A. Conner. 1,732,640; Oct. 22.  
 Rope, Automobile towing. H. H. Krechmer. 1,738,374; Dec. 3.  
 Rope clamp. C. H. Gray. 1,709,910; Apr. 23.  
 Rope controller. A. D. Gilbert. 1,710,697; Apr. 30.  
 Rope cinch. C. Otte. 1,713,238; May 14.  
 Rope-end device. R. Parrish. 1,698,001; Jan. 8.  
 Rope hitch. L. H. C. Cain. 1,724,791; Aug. 13.  
 Rope, Hitch for wire. G. C. Burd. 1,722,994; Aug. 6.  
 Rope-holding clip. N. T. Finn. 1,714,770; May 28.  
 Rope lock. G. Agobian. 1,727,687; Sept. 10.  
 Rope lock. I. Ulfers. 1,713,106; May 14.  
 Rope-slicing device. J. Strzyezkowski. 1,738,331; Dec. 3.  
 Rope-stranding machine. E. H. Shove. 1,712,406; May 7.  
 Rope-thrusting shovel. J. J. Arnaud. 1,721,761; July 23.  
 Rope tie, Automatic adjustable. W. G. Phillips. 1,737,678; Dec. 3.  
 Rope, Wire. W. F. Munford. 1,730,741; Oct. 8.  
 Rope, Wire. H. L. Whittemore. 1,699,174; Jan. 15.  
 Rosary in pictures. C. L. Kelly. 1,733,376; Oct. 29.  
 Rosette blanks, Apparatus and method for making. H. W. Cotton. 1,728,724; Sept. 17.  
 Rosette-making method. J. E. Disch. 1,713,467; May 14.  
 Rosin-applying device. H. S. Mills. 1,741,373; Dec. 31.  
 Rosin, High-grade wood. H. E. Kaiser and R. S. Hancock. 1,715,085; May 28.  
 Rosin, Recovering high-grade wood. H. E. Kaiser and R. S. Hancock. 1,715,084; May 28.  
 Rotary bit. A. E. Carlson. 1,737,215; Nov. 26.  
 Rotary bit, Expansible. A. Allison. 1,705,055; Mar. 12.  
 Rotary burner. P. F. Holmgren. 1,699,067; Jan. 15.  
 Rotary combustion engine. L. P. Erb. 1,705,359; Mar. 12.  
 Rotary cutter. C. F. Ball. 1,699,944; Jan. 22.  
 Rotary cutter. G. A. DeVlieg. 1,723,017; Aug. 6.  
 Rotary cutter. J. A. Markstrum. 1,713,847; May 21.  
 Rotary cutter. F. P. Miller. 1,714,036; May 21.  
 Rotary cutter. F. P. Miller. 1,714,098; May 21.  
 Rotary cutter. F. P. Miller. 1,716,455; June 11.  
 Rotary cutter. F. P. Miller. 1,719,337; July 2.  
 Rotary cutter. F. P. Miller. 1,729,047; Sept. 24.  
 Rotary cutter. R. O. Stephenson. 1,720,769; July 16.  
 Rotary cutter. H. D. Stevens. 1,715,872; June 4.  
 Rotary cutter. T. Townsend. 1,698,832; Jan. 15.  
 Rotary cutter. E. A. Williams. 1,725,238; Aug. 20.  
 Rotary drier. W. A. Harty and F. W. Moore. 1,738,826; Dec. 10.  
 Rotary drill. S. Sorensen. 1,710,436; Apr. 23.  
 Rotary drill bit. W. V. Seifert. 1,723,381; Aug. 6.  
 Rotary drill, Hydraulic. W. L. Diehl. 1,727,276; Sept. 3.  
 Rotary engine. F. Engman. 1,713,378; May 14.  
 Rotary engine. J. W. Howard. 1,733,965; Oct. 29.  
 Rotary engine. J. D. Hoyt. 1,734,433; Nov. 5.  
 Rotary engine. R. Knopp. 1,701,534; Feb. 12.  
 Rotary engine. N. M. Lower. 1,729,951; Oct. 1.  
 Rotary engine. J. H. McCarthy. 1,717,610; June 18.  
 Rotary engine. M. H. Miller. 1,699,009; Jan. 15.  
 Rotary engine. L. J. Moritz. 1,719,378; July 2.  
 Rotary engine. G. Pitt. 1,741,072; Dec. 24.  
 Rotary engine. D. M. Rothenberger. 1,738,320; Dec. 3.  
 Rotary engine. W. V. Seifert. 1,717,739; June 18.  
 Rotary engine. T. Taschudi. 1,732,995; Oct. 22.  
 Rotary engine. J. E. Tuscher. 1,741,084; Dec. 24.  
 Rotary engine, Internal-combustion. H. L. Weed. 1,726,461; Aug. 27.  
 Rotary furnace. W. M. Duncan. 1,728,958; Sept. 24.  
 Rotary hammer mill. W. J. Clement. 1,728,392; Sept. 17.  
 Rotary-hearth furnace. E. S. Fatkin. 1,728,750; Sept. 17.  
 Rotary line switch. B. D. Willis. 1,719,862; July 9.  
 Rotary machine. C. L. Henderson. 1,699,499; Jan. 15.  
 Rotary machine. I. H. Wilsey. 1,700,818; Feb. 5.  
 Rotary machine. I. H. Wilsey. 1,719,639-40; July 2.  
 Rotary mixer. J. C. Lyle. 1,740,613; Dec. 24.  
 Rotary pump. A. C. Roessler. 1,719,134-5; July 2.  
 Rotary sprinkler. F. C. Orr. 1,710,107; Apr. 22.  
 Rotary switch. L. Lindberg. 1,720,134; July 9.  
 Rotary with power-measuring means. E. E. Greve. 1,734,482; Nov. 5.  
 Rotational device such as vehicle wheels. J. V. Pugh and G. T. Bayliss. 1,737,332; Nov. 26.  
 Rotor. F. E. Dumbleton. 1,740,077; Dec. 17.  
 Rotor adapted to be driven by wind or flowing water. S. J. Savonius. 1,697,574; Jan. 1.  
 Rotor construction, Split. H. V. Putman. 1,731,350; Oct. 15.  
 Rotor craft. W. J. H. Strong. 1,725,316; Aug. 20.  
 Rotor, Electrical machine. L. Coigneau. 1,723,409; Aug. 6.  
 Rotor end guard for pulp beaters and the like. J. B. Buehler. 1,709,246; Apr. 16.  
 Rotor, Fluid. C. G. Butler. 1,728,529; Sept. 17.  
 Rotor, Fluid-pressure. C. G. Butler. 1,728,528; Sept. 17.  
 Rotor for blowers. A. Feinberg. 1,704,123; Mar. 5.  
 Rotor for induction motors. M. C. Spencer. 1,708,909; Apr. 9.  
 Rotor, induction-motor. H. Maxwell. 1,699,150; Jan. 15.  
 Rotors, Producing squirrel-cage. A. C. Bunker. 1,719,829; July 9.  
 Roundabout. W. Hainke. 1,720,397; July 9.  
 Roundabout, Aquatic. G. Robmer. 1,733,102; Oct. 22.  
 Route-indicating means. J. E. Thompson. 1,728,884; Sept. 17.  
 Route indicator. W. F. Menk. 1,701,957; Feb. 12.  
 Route indicator. W. L. Windsor, 3d. 1,738,413; Dec. 3.  
 Router and work support, Combined. R. L. Carter. 1,718,275; June 25.  
 Router bit. A. W. Cochran. 1,702,812; Feb. 19.  
 Roving-feeding mechanism. G. E. Gibbs. 1,727,764; Sept. 10.  
 Roving or yarn, Process and mechanism for the manufacture of. W. G. Reynolds. 1,738,796; Dec. 10.  
 Rowing machine. J. R. Anderson. 1,707,791; Apr. 2.  
 Rowing machine. G. C. Martin. 1,727,657; Sept. 10.



- Rowing machine. W. A. Spain. 1,715,870; June 4.
- Rowlock. S. E. Landberg. 1,721,665; July 23.
- Rubber and leather or other material, Method and apparatus for uniting crude. E. F. H. Enna. 1,740,580; Dec. 24.
- Rubber and making it, Reenforced. H. H. Keller. 1,710,481; Apr. 23.
- Rubber and making it, Synthetic. R. P. Dinsmore. 1,732,795; Oct. 22.
- Rubber and making same, Article of. H. Gray. 1,732,886; Oct. 22.
- Rubber and making the same, Vulcanized. W. Scott. 1,721,057; July 16.
- Rubber and product, Retarding deterioration of. W. S. Calcott, W. A. Douglass, and O. M. Hayden. 1,725,564; Aug. 20.
- Rubber and products obtained therefrom, Compounding and vulcanizing. S. M. Cadwell. 1,701,946; Feb. 12.
- Rubber articles and manufacturing same, Thin-walled. I. and L. Dorogi. 1,713,751; May 21.
- Rubber articles, Making. W. B. Wescott. 1,702,225; Feb. 12.
- Rubber articles, Manufacture of. U. Pestalozza. 1,717,248; June 11.
- Rubber articles, Producing. M. C. Teague. 1,719,633; July 2.
- Rubber coating composition and making the same, Hard. S. E. Sheppard and J. J. Schmitt. 1,701,129; Feb. 5.
- Rubber composition. C. H. Campbell. 1,729,708-9; Oct. 1.
- Rubber composition and making and shaping the same. H. L. Fisher and W. C. Geer. 1,731,483; Oct. 15.
- Rubber composition and making the same. W. C. Geer. 1,731,484; Oct. 15.
- Rubber composition and making the same. H. A. Winkelmann. 1,716,474; June 11.
- Rubber composition and manufacture of same, Vulcanized. W. P. ter Horst. 1,698,569; Jan. 8.
- Rubber composition and method of preserving rubber. P. C. Jones. 1,741,778; Dec. 31.
- Rubber composition and producing the same. C. W. Bedford. 1,719,920; July 9.
- Rubber composition and producing the same. W. C. Geer and H. L. Fisher. 1,731,485; Oct. 15.
- Rubber composition or compound for the manufacture of paving blocks, slabs, and the like. E. Draullette. 1,728,990; Sept. 24.
- Rubber composition. Vulcanized fibrous. C. F. Willard. 1,702,678; Feb. 19.
- Rubber compositions and products obtained, Manufacture of. J. H. Reel and H. E. Cude. 1,735,547; Nov. 12.
- Rubber compositions having low-moisture absorption, Producing. W. C. Geer and H. L. Fisher. 1,731,849; Oct. 15.
- Rubber compositions, Making. M. C. Teague. 1,730,485; Oct. 8.
- Rubber compositions, Manufacture of. L. B. Sebrell. 1,732,774; Oct. 22.
- Rubber compound suitable for floor coverings. J. C. Wichmann. 1,720,533; July 9.
- Rubber dispersion, Aqueous. W. B. Pratt. 1,732,027; Oct. 15.
- Rubber emulsion containing sulphur, Making and electrolytically depositing an aqueous. S. E. Sheppard and L. W. Eberlin. 1,723,083; Aug. 6.
- Rubber-fiber article and making the same. W. B. Wescott. 1,737,133; Nov. 26.
- Rubber for oil wells. Swab. W. G. Bisbee and B. P. Hoffman. 1,739,385; Dec. 10.
- Rubber from plants, Extraction of. T. A. Edison. 1,740,079; Dec. 17.
- Rubber from scrap, Reclaiming. L. T. Smith. 1,737,775; Dec. 3.
- Rubber goods, Manufacture of. P. Klein and A. Szegvári. 1,708,181; Apr. 9.
- Rubber goods, Manufacture of. P. Klein and A. Szegvári. 1,719,984; July 9.
- Rubber in water, Dispersing. W. B. Pratt. 1,731,725; Oct. 15.
- Rubber latex and product thereof, Preserving. J. McGavack and R. A. Shive. 1,699,368; Jan. 15.
- Rubber latex compositions and articles formed thereby, Treating. E. Hopkinson and M. C. Teague. 1,736,404; Nov. 19.
- Rubber latex, Preserving. J. McGavack and R. A. Shive. 1,699,369; Jan. 15.
- Rubber latex-proteid compound. W. W. Christmas. 1,724,906; Aug. 20.
- Rubber manufacture. E. A. Hauser. 1,729,651; Oct. 1.
- Rubber-masticating machine. P. E. Welton. 1,701,832; Feb. 12.
- Rubber, Method and apparatus for producing channel. G. L. Matthias. 1,702,123; Feb. 12.
- Rubber or attachment for soles, Invisible. C. Furcolo. 1,701,406; Feb. 5.
- Rubber. Production of vulcanized. T. W. Miller. 1,732,944; Oct. 22.
- Rubber, Reclaimed. C. H. Campbell. 1,729,706-7; Oct. 1.
- Rubber, Reclaiming vulcanized. T. Yokoyama. 1,714,835; May 28.
- Rubber reclamation process. J. J. Moriarty. 1,710,100; Apr. 23.
- Rubber, Reenforced sheet. B. W. Rogers. 1,733,469; Oct. 29.
- Rubber reenforcing. C. Ferrettie. 1,701,773; Feb. 12.
- Rubber-spreading machine. E. J. Hooper. 1,709,266; Apr. 16.
- Rubber surfacing on a rigid base and product, Making. M. C. Teague. 1,705,273; Mar. 12.
- Rubber, Swab. W. L. Childs. 1,729,064; Sept. 24.
- Rubberlike materials, Making. J. C. Wichmann. 1,730,702; Oct. 8.
- Rubberlike substance and obtaining the same. E. W. Hultman. 1,704,194; Mar. 5.
- Rubbing machine. F. Hinnekens. 1,702,778; Feb. 19.
- Rubbing machine. H. B. Scott. 1,699,029; Jan. 15.
- Rudder control for towboats. C. E. Ward. 1,717,286; June 11.
- Rudder for crafts and the like, Hand-driven propulsion. E. J. D. Michiels. 1,704,400; Mar. 5.
- Rudder for ships. W. Roos. 1,697,779; Jan. 1.
- Rudder for ships, Two-part. M. Oertz. 1,705,133; Mar. 12.
- Rudder for ships, Two-part. M. Oertz. 1,714,042; May 21.
- Rudder, Reversing. A. McNab. 1,704,396; Mar. 5.
- Rudder, Ship's. J. Tutin. 1,699,931; Jan. 22.
- Rudder, Steamboat. L. W. Doak. 1,698,086; Jan. 8.
- Rug. S. Brandt. Des. 73,147-52; Apr. 2.
- Rug. S. Brandt. Des. 73,260-4; Apr. 16.
- Rug. W. Henderson and J. J. Henderson. Des. 80,081; Dec. 10.
- Rug. A. A. Reinke. Des. 78,985; July 16.
- Rug. S. J. Siegel. Des. 79,611; Oct. 15.
- Rug. A. J. Zapp. Des. 78,371; Apr. 23.
- Rug and making the same. G. C. Rasch. 1,703,636; Feb. 26.
- Rug-cleaning machine. P. L. Mabrey. 1,714,273; May 21.
- Rug or a similar article. G. M. Fauser. Des. 77,758; Feb. 19.
- Rug or robe, Steamer. H. B. Hedden. 1,704,504; Mar. 5.
- Rug or similar article. G. M. Fauser. Des. 77,536-7; Jan. 22.
- Rug or similar article. O. W. Fauser. Des. 77,538-9; Jan. 22.
- Rug or similar article. W. H. Watson. Des. 79,112-15; July 30.
- Rugs, Device for making. J. C. Duner. 1,724,463; Aug. 13.
- Rugs and the like, Apparatus for finishing and rolling cleaned. H. Klein. 1,740,925; Dec. 24.
- Rugs from cabbage-palmetto fiber, Making. A. E. McLean. 1,732,372; Oct. 22.
- Rugs, Making. J. I. Glendinning, F. D. Rohan, and C. E. Saglaw. 1,732,266; Oct. 22.
- Rule. A. L. Kuhlman. 1,699,847; Jan. 22.
- Rule and marking guide, Pocket lumber. A. Morton. 1,732,906; Oct. 22.
- Rule, Combination. A. Zamostny. 1,702,231; Feb. 12.
- Rule for measuring weir discharge. I. M. Clausen and R. A. Pierce. 1,735,892; Nov. 19.
- Rule, Paper-hanger's. W. A. Haas. 1,724,474; Aug. 13.
- Ruler. C. H. Little. 1,728,419-20; Sept. 17.
- Ruling device. A. M. Testa. 1,722,867; July 30.
- Rumble seat. V. F. Hitt. 1,729,580; Sept. 24.
- Rumble seat. V. G. Moss and A. C. Taylor. 1,707,065; Mar. 26.
- Rumble-seat top. E. Wilbanks. 1,730,258; Oct. 1.
- Runner blading and forming the same. L. F. Moody. 1,733,671; Oct. 29.
- Runner for automobiles. C. A. Johnson. 1,728,566; Sept. 17.
- Running-board bracket. C. S. McWhinnie. 1,701,581; Feb. 12.
- Running board, Pressed-steel. W. C. Casson. 1,713,258; May 14.
- Running-board rack, Folding. A. L. Chapman. 1,713,520; May 21.
- Runway, Spiral. F. Pardee. 1,712,714; May 14.
- Rust-loosening composition. F. M. Boynton. 1,715,589; June 4.
- Rusting shown by iron, steel, and iron alloys, Ascertaining the resistance to. C. Mauler. 1,714,035; May 21.
- Rustproofing process. W. H. Allen. Re17,484; Nov. 12.
- Sack, Harvesting. W. F. Crawford. 1,704,284; Mar. 5.
- Sack or bag. H. W. Sorensen. 1,707,098; Mar. 26.
- Sacking apparatus, Garment-. O. N. Eckburg. 1,710,867; Apr. 30.
- Sacking stand. S. Piombo. 1,700,717; Jan. 29.
- Saddle. O. F. and J. E. Ernst. 1,700,792; Feb. 5.
- Sadiron. L. S. Butman. 1,697,224; Jan. 1.
- Sadiron. B. A. Lake. 1,708,366; Apr. 9.
- Sadiron. B. A. Lake. 1,712,004; May 7.
- Sadiron. M. A. Rollman. Des. 77,859; Feb. 26.
- Sadiron and heater, Combined. J. Lavoie. 1,723,561; Aug. 6.
- Sadiron, Electric. M. H. Perez. 1,729,183; Sept. 24.
- Sadiron-retaining stand. C. W. Dorwin and C. Taggart. 1,710,812; Apr. 30.
- Sadiron, Self-heating. B. A. Lake. 1,708,312; Apr. 9.
- Sadiron stand. M. A. Rollman. 1,738,845; Dec. 10.
- Safe. R. A. and J. F. Cramer. 1,716,427; June 11.
- Safe. E. H. Lever. 1,726,845; Sept. 3.
- Safe. F. Werner and J. Hink. 1,714,579; May 28.
- Safe, Cake. S. E. Anderson. 1,723,521; Sept. 17.
- Safe-deposit box. E. F. Ames. 1,704,645; Mar. 5.
- Safe filling. C. J. Bates, Jr. and C. P. Bartels. 1,715,977; June 4.
- Safe interior. C. F. Meilink. 1,721,705; July 23.
- Safe light, Dark-room. W. Allen. 1,715,884; June 4.
- Safe, Match. J. E. Neahr. 1,733,552; Oct. 29.
- Safe, Milk-bottle. I. H. Rhindress. 1,720,438; July 9.



- Safety abutment, Quick-acting. A. E. Weingartner. 1,738,409; Dec. 3.
- Safety appliance. S. C. Baughn. 1,703,379; Feb. 26.
- Safety appliance. A. L. Burton. 1,739,543; Dec. 17.
- Safety appliance. L. C. Huff and A. G. Bogardus. 1,703,624; Feb. 26.
- Safety appliance, Elevator. F. Hymans. 1,702,384; Feb. 19.
- Safety appliance for garment pockets. A. M. Chaffee. 1,699,778; Jan. 22.
- Safety appliance for oil derricks. C. C. Wasson. 1,697,376; Jan. 1.
- Safety appliance for railways. J. E. Smith. 1,726,865; Sept. 3.
- Safety appliance for train lines. C. Stern. 1,700,385; Jan. 29.
- Safety appliance, Railroad. A. E. Withyman. 1,713,459; May 14.
- Safety arrangement for fuel burners. E. A. Ileman. 1,720,900; July 16.
- Safety attachment for aeroplanes. A. C. Harper. 1,710,618; Apr. 23.
- Safety attachment for aeroplanes. D. Pallaria. 1,706,677; Mar. 26.
- Safety attachment for gas cocks. C. Muller. 1,708,395; Apr. 9.
- Safety attachment for locks. L. C. Schmidt. 1,725,886; Aug. 27.
- Safety attachment for locomotives. P. B. Kamedish. 1,717,692; June 18.
- Safety attachment for motor vehicles, Emergency. C. N. Pogue. 1,697,085; Jan. 1.
- Safety attachment for planners. J. Jenne. 1,713,873; May 21.
- Safety attachment for presses. M. J. Roche. 1,714,049; May 21.
- Safety bag. F. and E. C. Root. 1,728,365; Sept. 17.
- Safety base for portable grandstands. E. Christopher. 1,720,944; July 16.
- Safety-brake stick. J. J. Uhlman and E. H. Johnson. 1,709,417; Apr. 16.
- Safety catch for badge pins. M. Folkman. 1,698,843; Jan. 15.
- Safety clasp. E. C. Grassmann. 1,732,267; Oct. 22.
- Safety clip, Painter's duster. R. Busch, sr. 1,706,953; Mar. 26.
- Safety control, Determined travel. E. B. Thurston. 1,738,214; Dec. 3.
- Safety-control device. G. D. Sundstrand. 1,736,141; Nov. 19.
- Safety control for power presses. E. W. Zeh. 1,715,180; May 28.
- Safety control for train-line air brakes, Automatic. C. Stern. 1,700,386; Jan. 29.
- Safety crossing. J. F. Goodenough. 1,715,231; May 28.
- Safety device. C. B. Auel. 1,709,765; Apr. 16.
- Safety device. W. W. Carson, jr. 1,703,813; Feb. 26.
- Safety device. F. P. Clark. 1,712,650; May 14.
- Safety device. R. B. Coney. 1,716,685; June 11.
- Safety device. G. Goddu and F. L. Mackenzie. 1,704,188; Mar. 5.
- Safety device. B. S. Horne and R. M. Laughinghouse. 1,741,626; Dec. 31.
- Safety device. R. M. Johnstone. 1,705,120; Mar. 12.
- Safety device. B. Jones. 1,711,735; May 7.
- Safety device. J. S. Laing. 1,730,278; Oct. 1.
- Safety device. T. H. Oppenheim and B. Selhorst. 1,724,612-14; Aug. 13.
- Safety device. H. Schlesinger. 1,720,694; July 16.
- Safety device, Aeroplane. J. H. Norton. 1,715,303; May 28.
- Safety device, Airplane. J. E. Lowe. 1,714,034; May 21.
- Safety device and glasses, Steel workers'. J. Krans. 1,719,706; July 2.
- Safety device, Automobile. L. Balogh. 1,699,271; Jan. 15.
- Safety device, Electric. E. A. Richmond and E. A. Dix. 1,709,283; Apr. 16.
- Safety device, Fire. K. Goslewski. 1,716,268; June 4.
- Safety device for aeroplanes. L. M. Doucet. 1,715,742; June 4.
- Safety device for aeroplanes. A. E. Fixel. 1,730,927; Oct. 8.
- Safety device for aeroplanes. J. D. and A. H. Lewallen. 1,713,473; May 14.
- Safety device for automatic firearms. K. Heinemann. 1,717,776; June 18.
- Safety device for automatic pistols, Magazine. G. H. Tansley. 1,719,384; July 2.
- Safety device for automobile starters. R. Littler, sr. 1,732,851; Oct. 22.
- Safety device for automobiles. A. Finn. 1,735,743; Nov. 12.
- Safety device for automobiles. J. P. Geraghty. 1,709,717; Apr. 16.
- Safety device for automobiles. L. Holmes. 1,720,076; July 9.
- Safety device for automobiles. W. Sniatowski. 1,713,403; May 14.
- Safety device for avoiding back-firing in carburetors. C. M. V. Allenou. 1,740,760; Dec. 24.
- Safety device for boilers. C. A. Twigg and A. G. Spinney. 1,697,621; Jan. 1.
- Safety device for brake beams and the like. L. J. Brown. 1,703,611; Feb. 26.
- Safety device for burners. N. T. Sellman. 1,711,398; Apr. 30.
- Safety device for centrifugal-machine baskets and spindles. A. F. Dunsmore. 1,697,110; Jan. 1.
- Safety device for centrifugal machines. H. J. M. C. Krantz. 1,736,975; Nov. 26.
- Safety device for cleaning plants or the like. H. Schlesinger. 1,729,493; Sept. 24.
- Safety device for driers. A. C. Kalk. 1,718,561; June 25.
- Safety device for electrical apparatus. T. A. E. Belt. 1,724,870; Aug. 13.
- Safety device for electron-discharge tubes. C. T. Ulrey. 1,704,267; Mar. 5.
- Safety device for elevators. D. L. Lindquist. 1,702,515; Feb. 19.
- Safety device for elevators. N. O. Lindstrom. 1,700,137; Jan. 29.
- Safety device for engine cylinders. P. Mitchell. 1,715,245; May 28.
- Safety device for fire escapes. E. Bocchino. Re17,469; Oct. 22.
- Safety device for extractors. C. W. Terwilliger. 1,697,798; Jan. 1.
- Safety device for foot-power punch presses and like machines. H. H. Raymond. 1,710,383; Apr. 23.
- Safety device for gas cocks. M. Krueger. 1,700,063; Jan. 22.
- Safety device for gas ranges. H. Helrich. 1,729,425; Sept. 24.
- Safety device for gas stoves. J. Andrews. 1,708,210; Apr. 9.
- Safety device for gas tanks. E. Thomson. 1,723,959; Aug. 6.
- Safety device for gas water heaters. R. W. Johnson. 1,700,316; Jan. 29.
- Safety device for gas water heaters. J. K. Luthe and R. W. Johnson. 1,725,876; Aug. 27.
- Safety device for heating chambers. J. Matcovich. 1,713,442; May 14.
- Safety device for high-tension wires. A. A. C. Ohlsen. 1,729,276; Sept. 24.
- Safety device for hot-water boilers. A. G. Spinney and C. A. Twigg. 1,735,415; Nov. 12.
- Safety device for lifting electromagnets. J. Bing. 1,733,714; Oct. 29.
- Safety device for manhole covers and the like. M. H. Borland. 1,717,364; June 18.
- Safety device for mechanically-operated rolls. R. W. Dempsey. 1,707,514; Apr. 2.
- Safety device for oil cans. B. Buccieri. 1,729,501; Sept. 24.
- Safety device for oil-injection engines. W. A. Morrison. 1,740,259; Dec. 17.
- Safety device for passenger vehicles. W. O'Neill. 1,709,319; Apr. 16.
- Safety device for phonographs. A. V. Bodine. 1,725,332; Aug. 20.
- Safety device for punch presses. E. Des. Enfants, sr. 1,738,872; Dec. 10.
- Safety device for rip-saws. A. J. Ennen. 1,735,240; Nov. 12.
- Safety device for safe locks, Time-controlled. E. R. Anderson. 1,698,930; Jan. 15.
- Safety device for screw jacks. F. L. Gormley. 1,737,153; Nov. 26.
- Safety device for speedy and racing boats, Automatic. H. A. Janacek. 1,710,217; Apr. 23.
- Safety device for street cars and similar vehicles. J. Dolan. 1,739,714; Dec. 17.
- Safety device for street cars and the like. S. Szöke. 1,720,977; July 16.
- Safety device for submarines. R. E. Andrew. 1,739,815; Dec. 17.
- Safety device for submarines. E. L. Moody. 1,738,385; Dec. 3.
- Safety device for submarines. A. and H. Priebe. 1,697,020; Jan. 1.
- Safety device for switches. W. G. Hartwig. 1,731,417; Oct. 15.
- Safety device for vehicles. M. Sigman. 1,704,768; Mar. 12.
- Safety device for window sashes. J. J. Gilroy. 1,697,724; Jan. 1.
- Safety device, Motor-vehicle. W. M. S. Kilgour. 1,740,895-6; Dec. 24.
- Safety device provided with cells which are sensitive to light. E. H. Bock. 1,727,930; Sept. 10.
- Safety device, Ship. M. Carloni. 1,708,784; Apr. 9.
- Safety device, Submarine. J. Blanchet. 1,738,093; Dec. 3.
- Safety device to protect carrier entrances. C. H. Langs. 1,720,047; July 9.
- Safety device, Traffic. A. Bigio. 1,729,325; Sept. 24.
- Safety device, Window-washer's. L. Wilson. 1,711,867; May 7.
- Safety gate. E. A. Banschbach. 1,698,424; Jan. 8.
- Safety gate. C. M. Neeld. 1,711,243; Apr. 30.
- Safety gate, Automatic. H. P. Walter and K. L. Hullsick. 1,700,424; Jan. 29.
- Safety gate, Automatic railroad. W. Koerber. 1,701,266; Feb. 5.
- Safety guard device. W. J. Stebler. 1,735,659; Nov. 12.
- Safety guard for band saws. E. W. Ross. 1,731,176; Oct. 8.
- Safety guard for presses. G. S. Neeley. 1,719,125; July 2.



- Safety guard for punch presses. E. P. Johnson. 1,740,419; Dec. 17.
- Safety guard for shutters. C. A. Bornmann. 1,697,492; Jan. 1.
- Safety hanger or display device. A. Timmons. 1,716,251; June 4.
- Safety hook. E. E. Greve. 1,711,346; Apr. 30.
- Safety hook. W. A. O'Bannon. Re17,390; July 30.
- Safety hook. J. P. Ratican. 1,740,782; Dec. 24.
- Safety hook. E. J. Shaffer. 1,709,234; Apr. 16.
- Safety-line terret. T. L. Kelley. 1,733,833; Dec. 10.
- Safety loading mechanism for ovens, Automatic. W. C. Huth. 1,718,861; June 25.
- Safety lock. G. Ancira. 1,736,843; Nov. 19.
- Safety means, Boom-hoist. E. H. Lichtenberg. 1,715,664; June 4.
- Safety mechanism for bolt-action firearms. L. H. Page. 1,707,538; Apr. 2.
- Safety mechanism for motor cars. H. Garbade. 1,713,492; May 14.
- Safety pin. W. O. Harris and F. C. Kohler. 1,724,477; Aug. 13.
- Safety pressure-actuated switch. I. E. McCabe. 1,737,859; Dec. 3.
- Safety signal, Vehicle. W. F. Dark and M. W. Tennant. 1,716,370; June 11.
- Safety stop. A. F. Case. 1,730,188; Oct. 1.
- Safety stop. A. F. Case. 1,740,726; Dec. 24.
- Safety stopper. J. G. Bouffartique. 1,704,648; Mar. 5.
- Safety stopping device. C. Seybold. 1,741,439; Dec. 31.
- Safety switch. E. M. Glasgow. 1,725,789; Aug. 27.
- Safety switch. E. G. Johansson. 1,733,126; Oct. 29.
- Safety switch. E. G. Johansson. 1,733,155; Oct. 29.
- Safety switch. G. E. Palmer. 1,700,330; Jan. 29.
- Safety switch, Automatic. R. F. Metcalfe. 1,713,773; May 21.
- Safety warning signal, Traffic. K. E. Erickson. 1,707,432; Apr. 2.
- Sagger. R. E. Anderson and D. P. Forst. 1,704,070; Mar. 5.
- Sail, Streamline. E. H. Williams. 1,700,660; Jan. 29.
- Sailboat. C. Hille. 1,709,219; Apr. 16.
- Salad dressing. W. D. Richardson and R. C. Newton. 1,701,085; Feb. 5.
- Sales board. A. D. Meiselbach. 1,713,293; May 14.
- Sales-book attachment. W. O. Critchfield. 1,712,873; May 14.
- Sales book, Manifolding. E. K. Bottle. 1,715,404; June 4.
- Sales book, Manifolding. G. R. Gompf. 1,742,067; Dec. 31.
- Saliva ejector. N. B. Riddle. 1,731,322; Oct. 15.
- Salt and pepper shaker. W. F. Day. Des. 78,385; Apr. 30.
- Salt and pepper shaker, Combination. G. F. Kraft. 1,724,028; Aug. 13.
- Salt and pepper shaker, Combined. A. J. Flauder. Des. 78,388; Apr. 30.
- Salt and pepper shaker, Combined. A. J. Flauder. Des. 80,026; Dec. 3.
- Salt and pepper shaker, Individual combination. G. F. Kraft. 1,739,363; Dec. 10.
- Salt bath. A. E. Bellis. 1,724,551-2; Aug. 13.
- Salt-bath furnace. A. G. E. Hultgren. 1,713,472; May 14.
- Salt baths, Composition of matter for and purifying fused. W. J. Merten and C. T. Gayley. 1,736,457; Nov. 19.
- Salt container, Individual. D. O. Ford. 1,729,213; Sept. 24.
- Salt glazing in colors. H. M. Kraner. 1,728,766; Sept. 17.
- Saltlike compound derived from dyestuff bases of the tri-arylmethane series and making same. O. Meyer. 1,729,003; Sept. 24.
- Salt or pepper shaker. A. J. Flauder. Des. 78,739-43; June 18.
- Salt or pepper shaker. H. Schaffer. Des. 79,340; Sept. 3.
- Salt or pepper shaker or similar article. J. W. Jennings. Des. 77,694; Feb. 12.
- Salt or pepper shaker or similar article. J. W. Jennings. Des. 80,177; Dec. 24.
- Salts and making same, Dibasic acid. J. H. James. 1,721,958; July 23.
- Salts from boiler feed water, Removing easily-soluble. J. Ostertag. 1,700,714; Jan. 29.
- Salts from brine, Crystalizing. G. B. Burnham. 1,724,558; Aug. 13.
- Salts of ammonium and of the alkalies or alkaline earths, Separating solid. P. Osswald and K. Schad. 1,733,272; Oct. 29.
- Salts of beta naphthol sulphonic acids and making the same and obtaining separate salts. M. L. Crossley and G. S. Simpson. 1,701,259; Feb. 5.
- Salts of carboxylic acids of aromatic sulphonic halogen-alkali-amides and manufacturing same, Double. F. Proschko. 1,697,139; Jan. 1.
- Salts of carboxylic acids, Producing. G. H. Buchanan, G. Barsky, and K. D. Ashley. 1,717,353; June 18.
- Salts of inosit hexaphosphoric acid, Manufacturing. F. Goedecke. 1,715,031; May 28.
- Salts, Preparation of lactic. S. K. Robinson. 1,726,768; Sept. 3.
- Salvaging equipment. N. Nelson. 1,710,103; Apr. 23.
- Salvarsan, Preparing. K. Matsumiya and H. Nakata. 1,713,475; May 14.
- Sample case. H. H. Labadie and B. B. Beers. 1,703,627; Feb. 26.
- Sampler, Geological. K. Nishio. 1,733,312; Oct. 29.
- Sampling apparatus. J. M. Lilligren. 1,721,126; July 16.
- Sampling pad and process of and apparatus for making the same. E. J. Abbott. 1,704,418; Mar. 5.
- Sand and other material, Apparatus for washing. J. E. Kennedy. 1,719,332; July 2.
- Sand and rock separator. J. Glowacki. 1,710,052; Apr. 23.
- Sand, Apparatus for preparing molder's. G. F. Royer. 1,729,361; Sept. 24.
- Sand back rest. F. H. Headley. 1,741,156; Dec. 31.
- Sand bag. N. S. Dodge. 1,700,979; Feb. 5.
- Sand-blast abrasive reclaiming and mixing. F. J. Hull. 1,710,168; Apr. 23.
- Sand-blast apparatus. G. C. Fatscher. 1,706,222; Mar. 19.
- Sand-blast apparatus. G. C. Kosian. 1,715,711; June 4.
- Sand-blast carving and making the same. G. R. Philip. 1,720,567-9; July 9.
- Sand-blast device. S. P. Davis. 1,930,195; Oct. 1.
- Sand-blast device. E. Wytchley. 1,712,804; May 14.
- Sand-blast device for controlling the direction of the abrasive stream. F. J. Hull. 1,710,166; Apr. 23.
- Sand-blast machine for applying pressure to abrasives. F. J. Hull. 1,710,169; Apr. 23.
- Sand-blast table. F. J. Hull. 1,713,965; May 21.
- Sand-blasting machine. H. A. Mulvany and H. E. Kennedy. 1,738,958; Dec. 10.
- Sand box. W. J. Etherington. 1,725,704; Aug. 20.
- Sand conditioner. R. L. Hamlin. 1,723,615; Aug. 6.
- Sand cutter. N. W. Stratford. 1,711,104; Apr. 30.
- Sand-cutting machine. F. Graf. 1,715,355; June 4.
- Sand-cutting mechanism. H. L. Wadsworth. 1,714,830; May 28.
- Sand-drying equipment, Automatic. F. D. Chadwick. 1,719,259; July 2.
- Sand elevator. E. O. Beardsley and W. F. Piper. 1,719,496; July 2.
- Sand jar, Portable. H. A. Bernhardt. Des. 77,804; Feb. 26.
- Sand reamer. G. A. Morris and O. C. Byrd. 1,727,246; Sept. 3.
- Sand-reconditioning machine for foundry art. L. A. Camerota. 1,737,144; Nov. 26.
- Sand reel. W. A. Cook. 1,707,219; Apr. 2.
- Sand-reel structure. R. R. Bloss, R. C. Pfeil, and E. B. Maurer. 1,714,587; May 28.
- Sand riddle. G. B. Pickop. 1,720,688; July 16.
- Sand separating and blending machine. F. S. Haefner and L. F. Zweibel. 1,717,555; June 18.
- Sand separating and blending means. G. F. Royer. 1,713,449; May 14.
- Sand strip. G. H. and C. O. Wood. 1,720,068; July 9.
- Sand tester. T. A. Owen. 1,711,125; Apr. 30.
- Sand-testing device for oil wells. D. B. and J. R. Fowler. 1,736,907; Nov. 26.
- Sand-treating machine. E. A. Rich and H. H. Haley. 1,726,504; Aug. 27.
- Sand washing. A. J. Mason. 1,723,190; Aug. 6.
- Sander and buffer. W. M. Drennon. 1,741,145; Dec. 31.
- Sander brake. B. D. Pinkney. 1,715,385; June 4.
- Sander, Drum-type. P. A. Solem. 1,718,839; June 25.
- Sander, Edge and spindle. W. J. Maddox. 1,701,814; Feb. 12.
- Sanding and polishing machine. C. J. Windfeldt. 1,737,135; Nov. 26.
- Sanding device. W. J. Cross. 1,735,039; Nov. 12.
- Sanding device. H. L. Rothrock. 1,702,272; Feb. 19.
- Sanding drum. C. Becker. 1,721,172; July 16.
- Sanding machine. J. E. Geretschlaeger and F. P. Clark. 1,713,599; May 21.
- Sanding machine. A. N. Nickerson. 1,723,805; Aug. 6.
- Sanding machine. J. Robbins. 1,705,878; Mar. 19.
- Sanding machine, Hand. E. I. and E. I. Dodds, jr. 1,738,062-3; Dec. 3.
- Sanding machine, Portable. H. A. Swan. 1,707,584; Apr. 2.
- Sanding machine, Spindle. W. J. Maddox. 1,701,815; Feb. 12.
- Sanding wheel. J. F. Webber. 1,697,442; Jan. 1.
- Sanitary closet. E. East. 1,736,478; Nov. 19.
- Sanitary device. W. H. Lloyd. 1,716,730; June 11.
- Sanitary device for water-closet bowls. B. Sarrett. 1,736,467; Nov. 19.
- Sanitary fountain. S. A. Conner. 1,726,059; Aug. 27.
- Sanitary glass ice-cream measurer. B. Kolber and M. Veloric. 1,700,062; Jan. 22.
- Sanitary napkin. R. W. Johnson. 1,705,366; Mar. 12.
- Sanitary napkin. D. Marinsky. 1,705,194; Mar. 12.
- Sanitary napkin. D. Marinsky. 1,734,499; Nov. 5.
- Sanitary protector for hand pieces and the like. W. E. Curry. 1,742,061; Dec. 31.
- Sanitary shield. W. A. Poole. 1,697,733; Jan. 1.
- Sap from felled trunks and for impregnating, coloring, or drying the same, Removing the. O. Reimann. 1,727,251; Sept. 3.
- Saponified composition. H. M. Weber. 1,719,251; July 2.
- Sash. D. J. Murnane. 1,697,400; Jan. 1.
- Sash adjuster, Swing. O. B. Dreusike. 1,715,494; June 4.
- Sash and door bolt. W. A. Mueller. 1,731,680; Oct. 15.
- Sash and hardware combination, Window-frame. G. R. Carl. 1,728,040; Sept. 10.
- Sash and hinge casement windows, Triple-motion. W. H. Gelbaugh. 1,727,877; Sept. 10.
- Sash and screen construction, Combined window. J. Monis. 1,730,781; Oct. 8.
- Sash attachment. D. W. McGee. 1,707,867; Apr. 2.
- Sash balance. J. P. Appleby. 1,699,267; Jan. 15.



- Sash balance. J. P. Appleby. 1,699,341; Jan. 15.  
 Sash balance, Spring. A. H. Kersting. 1,733,666; Oct. 29.  
 Sash construction. P. A. H. Anderson. 1,697,338; Jan. 1.  
 Sash construction. J. F. Levann. 1,700,502; Jan. 29.  
 Sash construction. J. C. Owens and E. Wofford. 1,740,622; Dec. 24.  
 Sash construction. P. Wichelhaus. 1,726,970; Sept. 3.  
 Sash construction, Window-. R. T. Axe. 1,741,354; Dec. 31.  
 Sash construction, Window-. E. C. Loetscher. 1,727,613; Sept. 10.  
 Sash construction, Window-. G. Thomas. 1,734,836; Nov. 5.  
 Sash, Detachable. C. L. Morgan. 1,734,301; Nov. 5.  
 Sash, Foldable window. W. Neubecker. 1,735,649; Nov. 12.  
 Sash lock. D. Hoyt. 1,728,276; Sept. 17.  
 Sash mounting. A. C. Soule. 1,725,165; Aug. 20.  
 Sash mounting for reversible windows. J. A. Stewart. 1,705,830; Mar. 19.  
 Sash mounting, Hinged-. W. Dreusike. 1,701,748; Feb. 12.  
 Sash-operating mechanism. S. H. Hart. 1,726,621; Sept. 3.  
 Sash-operating mechanism. E. W. Terhune. 1,738,742; Dec. 10.  
 Sash-pulley wheel. J. F. Seelbach. 1,709,492; Apr. 16.  
 Sash, Removable window. E. Klein. 1,727,993; Sept. 10.  
 Sash roller. J. W. Faughn. 1,712,696; May 14.  
 Sash support, Slidable window. C. A. Lewis. 1,713,841; May 21.  
 Sash, Window. E. Fraggi. 1,718,224; June 25.  
 Sash, Window. W. H. Klocke. 1,699,000; Jan. 15.  
 Sash, Window. C. F. Kuney. 1,715,608; June 4.  
 Sash, Window. A. W. Neilson. 1,699,013; Jan. 15.  
 Satchel, Burglarproof. V. A. Smith. 1,701,700; Feb. 12.  
 Saturating fibrous material, Method and apparatus for. R. T. Johnston. 1,698,886; Jan. 15.  
 Saturating fibrous materials in the manufacture of roofing, Method and apparatus for. A. E. Schutte. 1,715,392; June 4.  
 Saturating machine. F. A. Browne. 1,698,253; Jan. 8.  
 Saturating yarn rolls with dyes, Process and apparatus for. A. H. Junkers. 1,701,780; Feb. 12.  
 Saucer or the like. C. Weiss. Des. 78,597; May 21.  
 Sausage linking and twisting machine. O. C. L. Hirsch. 1,700,131; Jan. 29.  
 Sausage rolls, Making. H. Kornreich. 1,738,301; Dec. 3.  
 Sausage stuffer. A. J. Winter. 1,697,583; Jan. 1.  
 Sausage-twisting machine. C. H. Allen and J. L. Morris. 1,701,712-13; Feb. 12.  
 Sausage-twisting machine. W. J. O. Johnson. 1,729,724; Oct. 1.  
 Saving device, Life-. C. E. Journey. 1,704,197; Mar. 5.  
 Savings bank, Budget. P. C. Ko Eune. 1,716,823; June 11.  
 Saw. D. Beisinger. 1,736,551; Nov. 19.  
 Saw. F. Bouquet. 1,731,093; Oct. 8.  
 Saw. P. S. Legge. 1,736,607-8; Nov. 19.  
 Saw. E. C. Mitchell. 1,724,802; Aug. 13.  
 Saw. A. G. de Northall. 1,710,970; Apr. 30.  
 Saw. R. B. Prentice. 1,716,976; June 11.  
 Saw. H. E. Rice. 1,712,008; May 7.  
 Saw-adjusting device. G. W. Bridges. 1,716,107; June 4.  
 Saw aligner. O. Anderson. 1,703,980; Mar. 5.  
 Saw and crusher, Ice. A. L. Rowe. 1,697,290; Jan. 1.  
 Saw and making the same, Diamond-edged. G. F. Fromm. 1,712,034; May 7.  
 Saw and pulley therefor, Band. J. J. Chapman. 1,711,374; Apr. 30.  
 Saw and tooth construction, Circular-. W. D. Guindon. 1,708,131; Apr. 9.  
 Saw and vise, Miter hack. A. H. C. Trepte. 1,708,641; Apr. 9.  
 Saw assembly, Power-driven chain-. S. J. Bens. 1,723,125; Aug. 6.  
 Saw, Band. C. Dempewolf and H. M. Mager. 1,704,428; Mar. 5.  
 Saw blades, Production of. A. Peiseler. 1,732,692; Oct. 22.  
 Saw, Circular. R. C. Charlton. 1,707,903; Apr. 2.  
 Saw, Circular. I. R. Walker. 1,736,560; Nov. 19.  
 Saw clamp. W. L. Carpenter. 1,737,216; Nov. 26.  
 Saw clamp. B. B. Smithy. 1,723,983; Aug. 6.  
 Saw construction. C. H. McKay. 1,699,746; Jan. 22.  
 Saw, Crosscut. T. O. Berg. 1,710,142; Apr. 23.  
 Saw, Double end universal. S. Madsen. 1,700,683; Jan. 29.  
 Saw, Drag. N. H. Hawk. 1,712,270; May 7.  
 Sawdust feeder. J. J. McCoy. 1,731,675; Oct. 15.  
 Saw-filing machines, Grip feed for gin-. W. B. Smith. 1,725,887; Aug. 27.  
 Saw-filing machines, Saw carrier for. F. E. Collier. 1,728,393; Sept. 17.  
 Saw for bark-peeling machines, Self-cleaning. W. Harper. 1,738,067; Dec. 3.  
 Saw for button-making machines. C. O. Stohlgren. 1,732,953; Oct. 22.  
 Saw for cutting plaster casts, Electric. J. J. McGrath. 1,719,557; July 2.  
 Saw for delinting machines. J. L. Rosson. 1,706,129; Mar. 19.  
 Saw for iron. P. Mungo. 1,710,549; Apr. 23.  
 Saw frame. J. J. Johnston. 1,734,212; Nov. 5.  
 Saw frame. R. L. Walker. 1,700,423; Jan. 29.  
 Saw frame, Hack-. S. W. Habert. 1,699,291; Jan. 15.  
 Saw frame, Hack-. J. L. Lufkin. 1,713,972; May 21.  
 Saw guard. W. D. Drummond. 1,711,490; May 7.  
 Saw guard. H. J. Klehm. 1,712,828; May 14.  
 Saw guide. G. S. Agee. 1,710,286; Apr. 23.  
 Saw guide. W. F. Lemmer. 1,725,089; Aug. 20.  
 Saw guide. L. C. Smith. 1,704,581; Mar. 5.  
 Saw guide, Band-. E. R. Dougherty. 1,719,927; July 9.  
 Saw, Hack. J. W. Saffold. 1,722,316; July 30.  
 Saw, Hand circular. W. K. Schott. 1,713,096; May 14.  
 Saw handle. G. N. Clemson. 1,718,031; June 18.  
 Saw handle. F. Stidham. 1,706,681; Mar. 26.  
 Saw head. W. L. Adamson. 1,709,649; Apr. 16.  
 Saw, High-speed reciprocating. C. S. Bates. 1,729,324; Sept. 24.  
 Saw jointer, Crosscut-. P. Morin. 1,731,933; Oct. 15.  
 Saw jointer, Crosscut-. T. C. La Bare. 1,741,850; Dec. 31.  
 Saw, Kerfing. G. W. Warmoth. 1,740,555; Dec. 24.  
 Saw machine, Automatic. O. F. Kleeb and H. J. Fullerton. 1,730,938; Oct. 8.  
 Sawmill. T. A. Coleman. 1,705,698; Mar. 12.  
 Sawmill. R. H. Orr. 1,725,295; Aug. 20.  
 Saw mill, Band-. W. G. Hagmaier and E. C. Shaw. 1,740,085; Dec. 17.  
 Sawmill-carriage-knee snubber. H. W. Ambrose. 1,714,837; May 28.  
 Saw-mill carriages, Drive for. H. H. Detwiler. 1,732,506; Oct. 22.  
 Sawmill dog. E. A. Ferris. 1,724,010; Aug. 13.  
 Sawmill dog. W. Newsom. 1,706,310; Mar. 19.  
 Sawmill knees, Tapering mechanism for. W. B. Grueter. 1,725,861; Aug. 27.  
 Saw plane, Circular-. J. Sierra, jr. 1,711,102; Apr. 30.  
 Saw, Portable. J. M. Crowe. 1,701,948; Feb. 12.  
 Saw, Portable. J. H. Hittle. 1,718,860; June 25.  
 Saw, Power hand and bench. F. Ruschke. 1,707,097; Mar. 26.  
 Saw, Power meat and bone. M. W. Grigsby. 1,726,893; Sept. 3.  
 Saw, Power-operated. W. H. Hannah. 1,706,115; Mar. 19.  
 Saw set. W. Setterlund. 1,739,656; Dec. 17.  
 Saw-sharpening gauge. C. N. McClintock. 1,708,843; Apr. 9.  
 Saw, Sizing. V. A. Smith and C. Backman. 1,734,099; Nov. 5.  
 Saw standard, Portable. L. L. Belnap. 1,735,990; Nov. 19.  
 Saw, Stone-cutting circular. G. O. Hayward. 1,697,116; Jan. 1.  
 Saw structure, Circular-. J. A. Richards. 1,723,077; Aug. 6.  
 Saw table. W. P. McIlvanie. 1,735,773; Nov. 12.  
 Saw teeth, Tool for treating. J. A. St. Clair. 1,730,484; Oct. 8.  
 Saw, Tenon. P. A. Aubin. 1,729,092; Sept. 24.  
 Saw-tooth construction. C. H. McKay. 1,699,747; Jan. 22.  
 Saw tooth, Inserted. E. C. Orr. 1,738,149; Dec. 3.  
 Saw-tooth-setting device. J. Kautz. 1,722,924; July 30.  
 Saw, try-square, and miter square, Combination. A. A. Ottosen. 1,703,429; Feb. 26.  
 Saw, Trim. W. M. Eddins. 1,737,362; Nov. 26.  
 Saw vise. D. H. Prutton. 1,721,834; July 23.  
 Saw wheel, Band-. C. E. Tannewitz. 1,731,599; Oct. 15.  
 Sawing apparatus, Portable tree-. S. J. Bens. 1,717,547; June 18.  
 Sawing attachment for automobiles. W. H. Davis. 1,724,459; Aug. 13.  
 Sawing device. W. A. Meighan. 1,714,798; May 28.  
 Sawing machine. P. S. Legge. 1,706,406; Mar. 26.  
 Sawing machine. C. S. Price. 1,724,042; Aug. 13.  
 Sawing machine, Band. R. E. Langill. 1,699,365; Jan. 15.  
 Sawing machine, Log-. C. W. Vogler. 1,725,495; Aug. 20.  
 Sawing machine, Lumber-. G. M. Pelton. 1,740,998; Dec. 24.  
 Sawing machine, Power-controlled rip-. J. E. Hirst. 1,734,090; Nov. 5.  
 Sawing machine, Stone-. L. Dubois. 1,711,016; Apr. 30.  
 Sawing machine, Wood-. G. H. Carlson and A. G. Larson. 1,700,400; Jan. 29.  
 Sawing machines, Driving mechanism for stone-. E. Gilmand. 1,716,122; June 4.  
 Sawing machines or the like, Automatic feed for. H. Thiel. 1,741,082; Dec. 24.  
 Sawing mechanism. P. N. Walters. 1,710,327; Apr. 23.  
 Sawing or cutting-off machine for cutting rods into pieces. B. Buxbaum. 1,727,427; Sept. 10.  
 Sawing strand. R. E. Brown. 1,730,756; Oct. 8.  
 Sawing-unit attachment for tractors. H. J. Byrne. 1,712,291; May 7.  
 Sawing with abrasives. G. P. Wallstrom. 1,728,155; Sept. 10.  
 Saxophone. A. J. Johnson. 1,703,109; Feb. 26.  
 Saxophone. A. J. Johnson. 1,735,576; Nov. 12.  
 Saxophone. E. V. Powell. 1,735,411; Nov. 12.  
 Saxophone octave key. C. A. Gilbert. 1,705,563; Mar. 19.  
 Scaffold. J. Bergesen, sr. 1,707,894; Apr. 2.  
 Scaffold. H. Coplan. 1,733,333; Oct. 29.  
 Scaffold. A. C. Farley. 1,714,215; May 21.  
 Scaffold. F. Hoffman and C. Lamour. 1,703,424; Feb. 26.  
 Scaffold. J. L. Pedersen. 1,714,044; May 21.  
 Scaffold. J. E. Rickard. 1,721,670; July 23.  
 Scaffold. A. Vila. 1,714,466; May 21.  
 Scaffold, Adjustable. O. Pott. 1,727,671; Sept. 10.  
 Scaffold bracket. J. Romyak. 1,724,851; Aug. 13.  
 Scaffold bracket. W. G. Venard. 1,712,974; May 14.  
 Scaffold bracket, Combination. W. C. Goodwin. 1,701,301; Feb. 5.



- Scaffold horse. A. N. Gouldh. 1,739,718; Dec. 17.  
Scaffold, Ladder. R. G. and H. C. King. 1,733,967; Oct. 29.  
Scaffold, Outtrigger. J. Amrein. 1,736,817; Nov. 26.  
Scaffold, Portable elevating. W. A. Lambert. 1,715,200; May 28.  
Scaffold, Portable window. I. D. Braune. 1,711,081; Apr. 30.  
Scaffold, Poster hanger's. R. W. Olmsted. 1,709,368; Apr. 16.  
Scaffold structure. W. G. Venard. 1,702,527; Feb. 19.  
Scaffold-suspension device. A. C. Fischer. 1,725,183; Aug. 20.  
Scaffolding. F. B. Johnston. 1,702,509; Feb. 19.  
Scaffolding. F. B. Johnston. 1,724,713; Aug. 13.  
Scaffolding, Adjustable. H. Ball. 1,730,028; Oct. 1.  
Scaffolding clamp. W. Merrill. 1,706,801; Mar. 26.  
Scaffolding trestle. A. B. Willis. 1,725,168; Aug. 20.  
Scale. H. M. Cameron. 1,699,686; Jan. 22.  
Scale. R. Craig. 1,730,451; Oct. 8.  
Scale. T. H. Eickhoff. 1,706,603; Mar. 26.  
Scale. H. H. Folker. 1,717,502; June 18.  
Scale. N. A. Hallwood. 1,709,471; Apr. 16.  
Scale. N. A. Hallwood. 1,714,871; May 28.  
Scale. N. A. Hallwood. 1,736,079; Nov. 19.  
Scale. F. B. Hamblin. 1,701,921; Feb. 12.  
Scale. F. B. Hamblin. 1,735,571; Nov. 12.  
Scale. H. O. Hem. 1,741,416; Dec. 31.  
Scale. L. Jaenichen. 1,723,354; Aug. 6.  
Scale. L. T. Johnson. 1,698,501; Jan. 8.  
Scale. W. R. Mittendorf. 1,729,789; Oct. 1.  
Scale. W. S. Smith. 1,701,642; Feb. 12.  
Scale. W. S. Smith. 1,719,734; July 2.  
Scale. W. S. Smith. 1,723,896; Aug. 6.  
Scale. W. S. Smith. 1,734,098; Nov. 5.  
Scale. W. F. Stimpson. 1,731,326; Oct. 15.  
Scale. C. V. Weir. 1,713,728; May 21.  
Scale, Advertising. C. C. Neale. 1,706,589; Mar. 26.  
Scale attachment, Platform. H. L. Snyder. 1,707,148; Mar. 26.  
Scale base, Nursery-. M. H. Hansen. 1,719,510; July 2.  
Scale beam. H. A. Hadley. Des. 78,571; May 21.  
Scale breaker. H. M. Naugle and A. J. Townsend. 1,718,064; June 18.  
Scale casing. M. J. Weber. Des. 79,578; Oct. 8.  
Scale casing, Weighing-. J. Sinel. Des. 78,592; May 21.  
Scale, Coin-actuated. R. C. F. Vogel. 1,707,103; Mar. 26.  
Scale, Coin-controlled weighing. H. O. Hem. 1,715,834; June 4.  
Scale, Computing. W. R. Mittendorf. 1,729,788; Oct. 1.  
Scale, Computing. J. S. Ogsbury. 1,719,077; July 2.  
Scale, Computing. J. Pfeifer. 1,707,683; Apr. 2.  
Scale, Computing. E. L. Schuhmann. 1,736,136; Nov. 19.  
Scale, Computing weighing. H. Jacob. 1,721,393; July 16.  
Scale, construction. L. W., W. A., and G. H. Northfield. 1,735,973; Nov. 19.  
Scale, Counting. E. G. Thomas. 1,725,493; Aug. 20.  
Scale, Even-balance. H. C. Schaper. 1,703,406; Feb. 26.  
Scale, Food. D. B. Samuelson. 1,703,639; Feb. 26.  
Scale-frame part. O. C. Reeves. 1,706,963; Mar. 26.  
Scale fulcrum. W. Curtis. 1,718,534; June 25.  
Scale mechanism for automatic feeders. J. Reed and F. Booth. 1,724,414; Aug. 13.  
Scale, Overhead track. H. O. Hem. 1,701,039; Feb. 5.  
Scale poise, Weighing-. O. C. Reeves. 1,706,964; Mar. 26.  
Scale, Predetermined-weight. O. C. Reeves and C. J. Zinke. 1,706,966; Mar. 26.  
Scale-removing apparatus. P. T. Black. 1,709,111; Apr. 16.  
Scale, Revolving computing. C. F. Christopher. 1,736,821; Nov. 26.  
Scale solvent and sealing composition. J. M. Coughlin. 1,715,337; May 28.  
Scale translating mechanism, Weighing-. G. M. Ludlow. 1,708,275; Apr. 9.  
Scale, Trip. G. Ohaus. 1,732,612; Oct. 22.  
Scale, Weighing. H. L. Allen. 1,706,510; Mar. 26.  
Scale, Weighing. A. Bousfield. Des. 77,737; Feb. 19.  
Scale, Weighing. E. L. Chott. 1,725,058; Aug. 20.  
Scale, Weighing. H. T. Crossman. 1,701,031; Feb. 5.  
Scale, Weighing. H. Folker. 1,700,258; Jan. 29.  
Scale, Weighing. C. H. Hapgood. 1,706,976; Mar. 26.  
Scale, Weighing. S. N. Hurt. 1,706,977; Mar. 26.  
Scale, Weighing. S. N. Hurt. 1,732,163; Oct. 15.  
Scale, Weighing. M. B. Mills. 1,702,791; Feb. 19.  
Scale, Weighing. O. W. Mojonier. 1,702,741; Feb. 19.  
Scale, Weighing. O. C. Reeves. 1,714,623-4; May 28.  
Scale, Weighing. E. G. Thomas. 1,706,970; Mar. 26.  
Scale, Weighing. C. F. M. van Berkel. 1,710,125; Apr. 23.  
Scale, Weighing. A. van Duyn. 1,740,320; Dec. 17.  
Scale, Weighing. F. W. Waltz. 1,697,942; Jan. 8.  
Scale, Weighing. T. W. B. Watling and J. Macaurek. 1,702,582; Feb. 19.  
Scale, Weighing. L. C. Wetzel. 1,725,498-9; Aug. 20.  
Scale, Weighing and counting. C. H. Hapgood. 1,715,832; June 4.  
Scaler, Fish. E. F. Huot. 1,706,403; Mar. 26.  
Scaler, Fish. A. J. Wallace. 1,726,326; Aug. 27.  
Scales, Attachment for. R. E. and H. C. Younger. 1,728,988; Sept. 24.  
Scales, Weight-indicating mechanism for. N. A. Hallwood. 1,729,106; Sept. 24.  
Scallops in knitted fabrics, Producing. H. S. Regar. 1,719,032; July 2.  
Scalp protector. M. S. Joyner. 1,716,173; June 4.  
Scalper and aspirator. H. Mjolsness. 1,737,260; Nov. 26.  
Scanner for picture transmission. R. Schildenfeld. 1,715,517; June 4.  
Scarf. A. K. F. Harnapp. Des. 78,021; Mar. 19.  
Scarf or the like, Embroidered lace. S. N. Mallouk. Des. 79,198; Aug. 13.  
Scarfing machine. H. Lyon. 1,698,641; Jan. 8.  
Scarfing machine, Blank-. G. Horvath. 1,723,783; Aug. 6.  
Scavenge air apparatus. H. T. Herr and A. T. Kasley. 1,701,371; Feb. 5.  
Scavenging device for gas turbines. F. Hofmann. 1,730,210; Oct. 1.  
Scavenging port of two-stroke internal-combustion engine. E. Brown. 1,705,554; Mar. 19.  
Schoolhouse box. N. A. Otto. 1,698,731; Jan. 15.  
Scissors. C. Driest, jr. 1,705,810; Mar. 19.  
Scissors. H. Jordan. 1,718,907; June 25.  
Scissors, Duplex. H. Carri. 1,715,898; June 4.  
Scissors element, Adjusting. W. A. Zeidler. 1,723,756; Aug. 6.  
Scissors, Finger. J. E. Phelps. 1,721,789; July 23.  
Scissors or similar article. W. M. Buttrick and R. P. Piperoux. Des. 77,886; Mar. 5.  
Scissors or similar article. P. T. Frankl. Des. 78,282; Apr. 16.  
Scissors sharpening device. J. E. Strnad. 1,738,936; Dec. 10.  
Scoop. C. M. Dreher. 1,728,858; Sept. 17.  
Scoop. A. J. Jacobs. 1,711,566; May 7.  
Scoop. G. C. White. 1,703,023; Feb. 19.  
Scoop, Cranberry-picking and vine-training. A. C. Atwood. 1,725,843; Aug. 27.  
Scoop, Excavating. R. R. Downie. 1,716,432; June 11.  
Scoop for ice cream, Slab-. V. Bach. 1,710,897; Apr. 23.  
Scoop, Ice-cream. C. G. Palmer. 1,728,505; Sept. 17.  
Scoop, Ice-cream. M. Aitken. 1,708,928; Apr. 16.  
Scoops, Tripping mechanism for. G. B. Scott. 1,717,523; June 18.  
Scooter. F. A. Nauts. 1,711,121; Apr. 30.  
Scooter. B. F. Neal. 1,732,374; Oct. 22.  
Scooter. P. A. Wayerski. 1,707,831; Apr. 2.  
Scooter brake. N. H. Davis. 1,714,000; May 21.  
Scooter, Child's. P. A. Gianera. 1,697,526; Jan. 1.  
Score board. W. P. Bott. Des. 77,525; Jan. 22.  
Scoreboard, Football. W. J. Morris. 1,733,333; Oct. 29.  
Score board for a game. G. C. Klein. Des. 78,395; Apr. 30.  
Score indicator. T. J. McDowell. 1,706,308; Mar. 19.  
Score indicator, Card-game. C. W. Smith. 1,714,929; May 28.  
Scorekeeping devices, Intermittent drive for. O. Kurz. 1,738,909; Dec. 10.  
Score table. J. W. Bishop. 1,707,505; Apr. 2.  
Scoring and slitting device, Multiple. G. de Pamphilis. 1,730,196; Oct. 1.  
Scoring ice blocks by fluid pressure. R. H. Roarh. 1,729,186; Sept. 24.  
Scoring machine. J. F. Peters. 1,725,967; Aug. 27.  
Scouring device. J. J. Brill. 1,714,584; May 28.  
Scouring device. O. V. Kean. 1,737,247; Nov. 26.  
Scouring device. D. J. Mayer. 1,713,975; May 21.  
Scouring machine for washing fabrics of wool and its mixtures. F. C. Planell. 1,706,349; Mar. 19.  
Scrap block. A. E. Troiel. 1,720,386; July 9.  
Scrapbook. C. H. Payne. 1,724,040; Aug. 13.  
Scrapbook and leaf unit therefor. F. N. Lang. 1,737,052; Nov. 26.  
Scrap metals, Reclaiming. T. D. Stay. 1,729,631; Oct. 1.  
Scrap shears, Auxiliary. J. D. Williams. 1,711,915; May 7.  
Scrape removing and collecting implement. L. G. Ham. 1,730,453; Oct. 8.  
Scraper. H. K. Klaus. 1,704,329; Mar. 5.  
Scraper. P. J. McNamara. 1,697,988; Jan. 8.  
Scraper. W. A. Perry and G. D. Toy. 1,698,375; Jan. 8.  
Scraper. B. E. Rose and G. Woolwine. 1,724,370; Aug. 13.  
Scraper. C. P. Shinn. 1,708,905; Apr. 9.  
Scraper. H. O. Smith. 1,718,496; June 25.  
Scraper. J. L. and C. E. Stull. 1,702,324; Feb. 19.  
Scraper and deflector for belt pulleys. H. H. Barber. 1,729,322; Sept. 24.  
Scraper attachment. R. and K. M. Davis. 1,721,876; July 23.  
Scraper attachment for chain belts. J. H. D. Petersen. 1,699,334; Jan. 15.  
Scraper, Bar-screen. J. H. Knowles. 1,734,813; Nov. 5.  
Scraper, blade sharpener, and corn cutter, Combination. A. Zilbersher. 1,707,154; Mar. 26.  
Scraper device for conveyers. J. F. Noecker. 1,728,131; Sept. 10.  
Scraper, Drag. R. H. Beaumont. 1,721,479; July 16.  
Scraper, Drag-line. H. Bailey, jr. 1,714,120; May 21.  
Scraper equipment, Drag. W. P. Alexander. 1,708,912; Apr. 9.  
Scraper excavating buckets, Holding blocks for. O. T. Martinson and O. J. Martinson. 1,732,942; Oct. 22.  
Scraper, Floor. A. W. Abrahamsen and A. Skarsten. 1,735,710; Nov. 12.  
Scraper, Floor. O. Olsen. 1,724,103; Aug. 13.  
Scraper, Foot. G. L. Curtis. 1,703,262; Feb. 26.  
Scraper for elevating graders, Dust. F. H. Lundean. 1,723,048; Aug. 6.  
Scraper, Griddle. J. Bozowich. 1,728,036; Sept. 10.  
Scraper, Hydraulic. E. J. Jackboice. 1,733,123; Oct. 29.



- Scraper, Open-end. A. B. Esseltine. 1,702,562; Feb. 19.
- Scraper, Pan. H. Myers. 1,721,130; July 16.
- Scraper pan. R. H. Staley. 1,713,404; May 14.
- Scraper, Paraffin. N. O. Miller. 1,720,049; July 9.
- Scraper, Revolving. B. E. Rose. 1,729,229; Sept. 24.
- Scraper, Revolving. B. E. Rose. 1,734,347; Nov. 5.
- Scraper, Road. W. Holmes. 1,711,387; Apr. 30.
- Scraper, Road. E. J. Jackoboico. 1,711,789; May 7.
- Scraper, Road. R. G. Le Tourneau. 1,709,081; Apr. 16.
- Scraper, Road. J. M. Pneuman. 1,721,711; July 23.
- Scraper, Tongue. I. Gross. 1,701,616; Feb. 12.
- Scraper, Wheeled. A. P. Armington. 1,714,117; May 21.
- Scraper, Wheeled lifting. W. K. McMillan. 1,713,048; May 14.
- Scraping implement. O. P. Daring. 1,710,151; Apr. 23.
- Screed, Road. J. W. Heltzel. 1,741,459; Dec. 31.
- Screen: See—
- Adjustable screen. Platelike screen.
  - Antiaircraft screen. Pulp screen.
  - Automobile screen. Radiator screen.
  - Auto screen. Roller screen.
  - Coal screen. Rolling screen.
  - Conveyer screen. Shiftable screen.
  - Filter screen. Snow screen.
  - Fire screen. Vehicle screen.
  - Flotation screen. Ventilating screen.
  - Fly-exit screen. Vibrating screen.
  - Fly screen. Vibratory screen.
  - Light-color screen. Water screen.
  - Light screen. Well screen.
  - Metallic screen. Window screen.
  - Motion-picture screen. Windshield screen.
  - Picture screen. Woven screen.
- Screen. R. Arbuckle. 1,715,024; May 28.
- Screen. R. W. Arms. 1,710,795; Apr. 30.
- Screen. A. Ashkenas. 1,706,388; Mar. 26.
- Screen. A. T. Brennan. 1,711,670; May 7.
- Screen. T. J. Davis. 1,703,726; Feb. 26.
- Screen. E. Deister. 1,725,061; Aug. 20.
- Screen. W. L. D'Olier. 1,740,573; Dec. 24.
- Screen. W. H. Fridley. 1,712,659; May 14.
- Screen. O. C. Gruender. 1,722,792; July 30.
- Screen. C. L. Hoopes. 1,697,277; Jan. 1.
- Screen. L. Hufferd. 1,718,149; June 13.
- Screen. T. Johnson. 1,716,172; June 4.
- Screen. G. A. Overstrom. 1,713,144; May 14.
- Screen. H. J. Reed and C. L. Spafford. 1,714,047; May 21.
- Screen. C. F. Sherwood. 1,718,335; June 25.
- Screen. R. Tsuchii, Sendai, Japan. 1,712,853; May 14.
- Screen. W. S. Weston. 1,735,067; Nov. 12.
- Screen. W. C. Wilson. 1,739,701; Dec. 17.
- Screen and portable casing therefor. E. J. Ericson. 1,721,147; July 16.
- Screen apparatus for pivoted sashes. J. E. Sodergren. 1,701,701; Feb. 12.
- Screen attachment, Window-. G. C. Burrowes. 1,737,041; Nov. 26.
- Screen construction. C. S. Inglis. 1,726,703; Sept. 3.
- Screen construction. J. O. Wagner. 1,739,811; Dec. 17.
- Screen construction, Sliding-. V. Berryman and G. C. Hoxie. 1,736,336; Nov. 19.
- Screen device, Window-. R. Wolzenski. 1,738,131; Dec. 3.
- Screen for automobiles. I. T. Borland. 1,738,517; Dec. 10.
- Screen for automobiles. J. W. Jelks. 1,739,395; Dec. 10.
- Screen for automobiles, Window. J. M. Fisher. 1,712,341; May 7.
- Screen for automobiles, Window. E. Hickman. 1,701,848; Feb. 12.
- Screen for automobiles, Window. N. C. Ragsdale. 1,722,481; July 30.
- Screen for cinematographic apparatus, Protecting. A. N. Merle. 1,727,891; Sept. 10.
- Screen for internal-combustion engines. T. L. Hibbard. 1,713,337; May 14.
- Screen for projection apparatus, Automatically-operated. E. D. Tillyer. 1,700,656; Jan. 29.
- Screen for the projection of moving pictures, lantern slides, or the like. R. Oliver and F. W. Gooch. 1,701,590; Feb. 12.
- Screen for use with windows of the sliding-sash type. J. Grant. 1,712,664; May 14.
- Screen frame, Metallic. W. E. Rosel. 1,725,937; Aug. 27.
- Screen guides, Plaster channel installation for. H. Dixon. 1,736,432; Nov. 19.
- Screen hanger. A. E. Lyons. 1,739,157; Dec. 10.
- Screen housing. H. Dixon. 1,722,958; July 30.
- Screen-installation, Rolling. H. Dixon. 1,741,922; Dec. 31.
- Screen-making machine, Metal-. V. F. Espenschied. 1,714,468; May 21.
- Screen manufacture, Well-. W. W. Wilson. 1,706,430; Mar. 26.
- Screen pipe. M. J. Trumble. 1,725,321; Aug. 20.
- Screen plate, Forming. C. P. Eisenbauer. 1,699,693; Jan. 22.
- Screen plates, Making. S. B. Stine. 1,723,311; Aug. 6.
- Screen rollers, Bar ratchet for. W. J. Dufficy. 1,734,797; Nov. 5.
- Screen slide. R. H. Natzke. 1,735,207; Nov. 12.
- Screening apparatus. F. P. Nickerson. 1,737,383; Nov. 26.
- Screening apparatus. M. P. Reynolds. 1,729,965; Oct. 1.
- Screening apparatus, Rotary. J. Watt. 1,698,572; Jan. 8.
- Screening granular materials, Apparatus for. V. E. Flanagan. 1,725,511; Aug. 20.
- Screening machine. R. E. Levers. 1,709,180; Apr. 16.
- Screening materials, Process and apparatus for. L. S. Deitz, jr. 1,710,208; Apr. 23.
- Screening paper stock, Apparatus for. A. J. Brookover. 1,737,296; Nov. 26.
- Screening plant for coke and similar materials. H. Binte. 1,728,657; Sept. 17.
- Screens, Making. H. D. Allee. 1,713,809; May 21.
- Screw, Adjustable vice-locking. J. J. Southwick. 1,721,095; July 16.
- Screw cap, Self-adjusting. P. W. Burbidge. 1,718,453; June 25.
- Screw clamp. J. Dohnal. 1,741,923; Dec. 31.
- Screw, Contact. R. H. Williams. 1,707,589; Apr. 2.
- Screw device. L. Horn. 1,724,590; Aug. 13.
- Screw driver. H. J. Harrold. 1,713,434; May 14.
- Screw driver. F. L. Krummel. 1,731,979; Oct. 15.
- Screw driver. A. T. Lochner. 1,708,766; Apr. 9.
- Screw driver. W. H. Pratt. 1,714,045; May 21.
- Screw driver. S. E. Spofford. 1,722,116; July 23.
- Screw driver. W. C. Starkey. 1,704,062; Mar. 5.
- Screw driver. R. R. Sullivan. 1,741,349; Dec. 31.
- Screw driver. B. Thal. 1,738,405; Dec. 3.
- Screw driver. W. S. Thomson. 1,712,484; May 14.
- Screw driver. J. Tomelick. 1,728,141; Sept. 10.
- Screw driver and drill machine. H. C. Brandt. 1,738,687; Dec. 10.
- Screw driver and wrench. A. G. Decker. 1,711,520; May 7.
- Screw-driver attachment. W. A. Burger and R. B. Callahan. 1,712,196; May 7.
- Screw-driver chuck. S. A. Clemetson. 1,726,693; Sept. 3.
- Screw-driver, Gripping. E. L. Millen. 1,699,306; Jan. 15.
- Screw element, Self-locking coupled. W. E. Hoke. 1,697,118; Jan. 1.
- Screw-eye-affixing machine. S. W. Avis. 1,729,977; Oct. 1.
- Screw, Feed. G. S. Brantington. 1,705,232; Mar. 12.
- Screw jack. R. J. Jauch. 1,723,970; Aug. 6.
- Screw jacks, Safety device for. F. L. Gormley and J. Bulik. 1,698,054; Jan. 8.
- Screw-machine stop. E. C. Biewend and W. R. Konkle. 1,729,863; Oct. 1.
- Screw machines, Device for closing and opening the vise jaws of automatic. A. Briese and R. Callow. 1,740,495; Dec. 24.
- Screw machines, Stock-feeding mechanism for automatic. J. L. Schmidling. 1,727,567; Sept. 10.
- Screw mechanism for lathes, Feed-. J. Wilberz. 1,706,763; Mar. 26.
- Screw press, Frictional. O. Georg. 1,707,001; Mar. 26.
- Screw propeller. S. M. Viale and H. L. Towns. 1,728,315; Sept. 17.
- Screw propeller, Feathering. H. S. Hele-Shaw and T. E. Beacham. 1,723,617; Aug. 6.
- Screw, Propulsion. F. Tismer. 1,717,745; June 18.
- Screw, Self-adjusting bearing. G. W. Coutts. 1,722,561; July 30.
- Screw-shell contact for electrical sockets. E. K. Freeman. 1,728,485; Sept. 17.
- Screw-slotting mechanism. L. K. Braren. 1,735,231; Nov. 12.
- Screw, Tappet adjusting. S. I. Fekete and H. M. Northup. 1,713,597; May 21.
- Screw-threaded cap for covering glass jars and other containers and making same. S. N. Tevander. 1,735,445; Nov. 12.
- Screw threads, Apparatus for forming. J. V. Puccini and W. L. Guise. 1,713,553; May 21.
- Screw, Wood. C. K. Holland. 1,729,670; Oct. 1.
- Screws, Arrangement for manufacturing. D. L. Swendsen. 1,718,498; June 25.
- Screws, Making. G. E. Keeler. 1,717,388; June 13.
- Scroll wheel. E. A. Chase. 1,711,042; Apr. 30.
- Scrubber and washer, Rotary. T. J. Noden. 1,704,663; Mar. 5.
- Scrubber, Gas. J. P. Flippen. 1,732,086; Oct. 15.
- Scrubber, washer, and drier for floors. J. C. Nordlum. 1,710,550; Apr. 23.
- Scrubbing machine, Floor-. R. T. Plummer. 1,731,636; Oct. 15.
- Scuff plate and retaining means therefor for vehicles bodies. M. W. Moesta. 1,704,138; Mar. 5.
- Scum eliminator. J. C. Etheredge. 1,709,783; Apr. 16.
- Scum-removing device. H. E. Elrod. 1,700,791; Feb. 5.
- Scutcher, Head. P. A. Carney. 1,722,902; July 30.
- Scutching machine. J. A. Vansteenkiste. 1,711,508; May 7.
- Scuttle, Ship's side. F. C. Bunker. 1,714,844; May 28.
- Scythe. C. L. Smith. 1,715,575; June 4.
- Scythes, Repair sleeve for. D. Winterfeld. 1,731,759; Oct. 15.
- Seal. W. G. Bond. 1,734,847; Nov. 5.
- Seal. J. O. Carrey. 1,724,125; Aug. 13.
- Seal. F. Keidel. 1,733,252; Dec. 3.
- Seal. L. Q. Moore. 1,724,359; Aug. 13.
- Seal and making the same. W. Fehse and W. Hagen. 1,740,397; Dec. 17.
- Seal, Car. J. Koroschetz. 1,712,565; May 14.
- Seal, Car. S. K. Wood. 1,702,283; Feb. 19.
- Seal, Elastic. E. L. Oliver. 1,715,944; June 4.
- Seal for boxes, Corner. J. J. Gannon. 1,723,150; Aug. 6.
- Seal for caps, Tamperproof. G. A. Williams. 1,710,956; Apr. 30.



- Seal for cyanide pots. J. C. Woodson. 1,707,295; Apr. 2.  
 Seal for furnaces. F. S. Weiser. 1,698,835; Jan. 15.  
 Seal for pressure regulators. J. C. Groble; 1,720,673; July 16.  
 Seal for shaft bearings, Lubricant. J. W. Varden. 1,716,992; June 11.  
 Seal, Furnace-opening. O. A. Colby. 1,725,059; Aug. 20.  
 Seal, Identification. P. P. Linden. 1,701,267; Feb. 5.  
 Seal, License-tag. L. J. Kiger. 1,716,139; June 4.  
 Seal lock. O. M. Bangs. 1,711,339; Apr. 30.  
 Seal lock. H. Marshall. 1,700,505; Jan. 29.  
 Seal, Lock. H. R. Simpson. 1,705,072; Mar. 12.  
 Seal, Pipe-couplings. R. Salvador. 1,740,479; Dec. 24.  
 Seal, Potted-plant. J. T. Lovett, jr. 1,698,021; Jan. 8.  
 Seal press. W. A. Witt. 1,741,595; Dec. 31.  
 Seal press, Combination. H. H. Wenthe. 1,722,119; July 23.  
 Seal, Self-testing. C. W. Moore. 1,702,976; Feb. 19.  
 Seal, Vacuum-tight. W. Dallenbach. 1,697,165; Jan. 1.  
 Seal, Weather. E. E. Edeburn. 1,723,270; Aug. 6.  
 Sealed can. H. Sebell. 1,724,317; Aug. 13.  
 Sealed joint. L. R. Golladay. 1,714,360; May 21.  
 Sealing apparatus for cartons. A. D. Bullerjahn. 1,724,179; Aug. 13.  
 Sealing apparatus for steam-power plant. Air-. C. A. French and R. R. Waterman. 1,698,947; Jan. 15.  
 Sealing articles with wire. H. B. Foulder. 1,739,755; Dec. 17.  
 Sealing band for jars. T. L. Taliaferro. 1,715,723; June 4.  
 Sealing cans. H. Sebell. 1,723,304; Aug. 6.  
 Sealing compound. A. W. Schorger. 1,717,172; June 11.  
 Sealing containers. W. B. Fenn. 1,728,533; Sept. 17.  
 Sealing crevices in rock formations or the like, Apparatus for. G. W. Christians. 1,715,592; June 4.  
 Sealing device. C. M. MacChesney and J. E. Ott. 1,730,669; Oct. 8.  
 Sealing device. T. E. Murray, jr. 1,700,744; Feb. 5.  
 Sealing device. E. G. Thomssen. 1,723,260; Aug. 6.  
 Sealing device, Automatic vacuum-. A. B. Crowell and F. S. Bowser. 1,708,261; Apr. 9.  
 Sealing device, Dry-cell-. W. F. Hendry. 1,697,596; Jan. 1.  
 Sealing device for inflatable bodies. B. L. Henry. 1,723,482; Aug. 6.  
 Sealing device for milk bottles, Sanitary. O. F. Stengel. 1,732,952; Oct. 22.  
 Sealing device for postage meter machines, Envelope-. W. H. Wheeler, jr. 1,697,036; Jan. 1.  
 Sealing device for shafts. H. Lebesnerois. 1,733,416; Oct. 29.  
 Sealing fissures in mine galleries. L. Ranney. 1,700,952; Feb. 5.  
 Sealing floating roofs. C. H. Haupt. 1,735,461; Nov. 12.  
 Sealing machine. E. D. Anderson. 1,729,811; Oct. 1.  
 Sealing machine. W. S. Silver. 1,739,048; Dec. 10.  
 Sealing machine. H. E. Townsend. 1,719,404; July 2.  
 Sealing machine, Bottle-. N. Lee and A. P. Stiansen. 1,706,174; Mar. 19.  
 Sealing machine, Bottle-. A. P. Stiansen. 1,738,803; Dec. 10.  
 Sealing machine, Carton-. W. A. Joplin. 1,720,733; Jan. 16.  
 Sealing machine for boxes. E. L. Walker. 1,736,180; Nov. 19.  
 Sealing machine for incandescent lamps and similar materials. W. H. Stiles, P. F. Wagener, and J. F. Donovan. 1,742,153; Dec. 31.  
 Sealing means for burial caskets. B. E. Lambert. 1,732,095; Oct. 15.  
 Sealing means for containers. J. M. Hothersall. 1,714,874; May 28.  
 Sealing means for liquid containers. W. S. Meggitt. 1,729,839; Oct. 1.  
 Sealing means for refrigerating machines. A. S. Limpert. 1,734,497; Nov. 5.  
 Sealing mounts into bulbs, Method of and machine for. M. Wildeboer. 1,723,107; Aug. 6.  
 Sealing off a hollow glass body from an annular glass body, Process and apparatus for. P. Schoonenberg. 1,741,662; Dec. 31.  
 Sealing oil wells, Apparatus for. J. E. Green. 1,697,114; Jan. 1.  
 Sealing or locking ring. W. G. Wilson. 1,721,326; July 16.  
 Sealing ring. J. Sturgess and M. Haerberlein. 1,716,870; June 11.  
 Sealing ring for containers. J. M. Hothersall. 1,713,830; May 21.  
 Sealing ring for jars. A. M. Rini. 1,740,904; Dec. 24.  
 Sealing rings for containers, Process and apparatus for making. J. M. Hothersall. 1,728,410; Sept. 17.  
 Sealing strip. A. O. Huxthal. 1,733,880; Oct. 29.  
 Seals between glass and metal, Making gas-tight. C. Kirwer. 1,716,140; June 4.  
 Seals, Method of and apparatus for making bottle. W. Recht. 1,738,612; Dec. 10.  
 Seam and closing cap therefor, Combined. W. H. G. Geake. 1,716,547; June 11.  
 Seam and producing the same, Hemmed. K. Maier. 1,736,453; Nov. 19.  
 Seam for paper cans. W. R. Lenderking. 1,716,965; June 11.  
 Seam for sewed articles. C. Theroux. 1,740,209; Dec. 17.  
 Seam for woven-wire belts and making it. H. Lindsay. 1,716,860; June 11.  
 Seam-forming machine. V. P. Wendle. 1,708,343; Apr. 9.  
 Seam-pressing machine. H. Weisner. 1,725,033; Aug. 20.  
 Seaming head for can-closing machines. G. F. Jackson. 1,731,136; Oct. 8.  
 Seaming machine. M. Köhler. 1,715,369; June 4.  
 Seaplane. L. Staiger. 1,720,698; July 16.  
 Seaplane float. C. D. Holler. 1,728,609; Sept. 17.  
 Seaplane float. B. V. Korvin-Kroukovsky. 1,726,439; Aug. 27.  
 Seaplane, Type of. J. V. Martin. 1,728,621; Sept. 17.  
 Searchlight. C. A. B. Halvorson, jr. 1,718,927; June 25.  
 Searchlight. K. Kleinert. 1,721,454; July 16.  
 Searchlight. O. Krell. 1,708,236; Mar. 19.  
 Searchlight and fuse tester, Combined. N. Roe. 1,734,230; Nov. 5.  
 Searchlight, Drumless. P. R. Bassett. 1,735,667; Nov. 12.  
 Searchlight, High and medium intensity. P. R. Bassett. 1,735,947; Nov. 19.  
 Searchlight, Portable. J. S. McRea. 1,736,208; Nov. 19.  
 Seat: See—  
     Adjustable seat. Cushion seat.  
     Air-chamber seat. Foldable seat.  
     Auto seat. Folding seat.  
     Automobile seat. Lunch-counter seat.  
     Bath seat. Rear seat.  
     Bus seat. Rumble seat.  
     Cab or deck seat. Spring seat.  
     Car seat. Theater seat.  
     Chair seat. Toilet seat.  
     Closet seat. Vehicle seat.  
     Collapsible seat. Wall seat.  
 Seat. T. A. P. Baum. 1,727,691; Sept. 10.  
 Seat. G. Flintermann. 1,732,647; Oct. 22.  
 Seat. A. F. Masury. 1,731,387; Oct. 15.  
 Seat. J. J. Peterson. 1,722,678; July 30.  
 Seat. E. Pujals. 1,703,779; Feb. 26.  
 Seat. R. C. Wilson. 1,702,883; Feb. 19.  
 Seat adjuster. C. M. Templeton. 1,726,597; Sept. 3.  
 Seat adjuster for vehicles. H. R. De Veau. 1,714,462; May 21.  
 Seat and assembling the same, Air-cushion. M. Stubnitz. 1,729,559; Sept. 24.  
 Seat and back rest, Combination. J. Forst. Des. 79,587; Oct. 15.  
 Seat and bed structure, Automobile combined. F. Leutz. 1,725,807; Aug. 27.  
 Seat and desk combined. R. L. Key. 1,715,843; June 4.  
 Seat attachment for toilet seats, Child's. H. Hamilton. 1,733,080; Oct. 22.  
 Seat attachment for water-closet seats, Child's. A. C. Hawkins. 1,710,620; Apr. 23.  
 Seat attachment, Supplemental. F. H. Knight. 1,707,913; Apr. 2.  
 Seat back, Automobile. O. B. Linder. 1,711,320; Apr. 30.  
 Seat construction. F. A. Selje. 1,722,543; July 30.  
 Seat cover and support. W. L. Fry. 1,704,703; Mar. 12.  
 Seat cushion. H. K. Freeman. 1,729,377; Sept. 24.  
 Seat cushions, Spring structure for. A. Eggh. 1,716,518; June 11.  
 Seat for automobiles, Back. A. Boller. 1,732,116; Oct. 15.  
 Seat for automobiles, Sliding. F. G. Beutner. 1,728,655; Sept. 17.  
 Seat for equalizing bars. I. A. Randel. 1,727,560; Sept. 10.  
 Seat for grandstands and the like. E. C. Lange and S. J. Nicholson. 1,712,388; May 7.  
 Seat for motor cars. L. Saives. 1,713,980; May 21.  
 Seat for motor cars, Folding. J. George. 1,729,669; Oct. 1.  
 Seat for motor vehicles, Convertible. F. A. Clark. 1,732,151; Oct. 15.  
 Seat for vehicle bodies, Adjustable. W. Marshall. 1,736,503; Nov. 19.  
 Seat for vehicles, Adjustable. E. A. Hellstrand. 1,703,004; Feb. 19.  
 Seat for window cleaners, Safety. T. F. Morrissey. 1,723,654; Aug. 6.  
 Seat inclosure, Rumble-. H. A. Hartzell and H. F. Hooper. 1,707,121; Mar. 26.  
 Seat, Indicating system. W. J. King. 1,711,534; May 7.  
 Seat mechanism, Reversible-. W. E. B. Hasselkus. 1,720,474; July 9.  
 Seat mount, Resilient. C. Pallenberg. 1,697,082; Jan. 1.  
 Seat pad, Sanitary toilet-. T. Kobatake. 1,706,960; Mar. 26.  
 Seat-positioning device. L. O. Thompson. 1,719,815; July 2.  
 Seat provided with a reclining back. J. Boëry. 1,701,604; Feb. 12.  
 Seat mount, Resilient. C. Pallenberg. 1,734,776; Nov. 5.  
 Seat retainer. M. H. Toncray. 1,717,420; June 18.  
 Seat-reversing mechanism, Car-. J. H. Lucas. 1,741,784; Dec. 31.  
 Seat spring. D. R. Capes. 1,733,051; Oct. 22.  
 Seat structure. G. H. Hamilton and R. A. White. 1,734,576; Nov. 5.  
 Seat system. A. F. Taggart. 1,714,645; May 28.  
 Seater and packer. R. L. Davis. 1,736,254; Nov. 19.  
 Seating indicator for cinematograph theaters and the like. A. S. Cubitt and G. K. Jensen. 1,724,912; Aug. 20.  
 Seating table. W. C. James. 1,697,428; Jan. 1.  
 Seats, Portable back rest for. F. A. Backstrom. 1,721,366; July 16.



- Secondary rack. W. D. Kyle. 1,706,237; Mar. 19.  
Secret communicating system. C. L. Weis, jr. 1,725,032; Aug. 20.  
Secret communication system. B. W. Chesnut. 1,725,566; Aug. 20.  
Sectional boiler. C. F. Newport. 1,703,894; Mar. 5.  
Sectional furnace. H. Cowles and J. K. Norris. 1,740,393; Dec. 17.  
Sectional furnace. J. Doherty. 1,724,462; Aug. 13.  
Sectional furnace. J. Doherty. 1,737,003; Nov. 26.  
Sectional mold. F. Zlatnik. 1,708,646; Apr. 9.  
Sectional repair bag. O. Wersen. 1,721,580; July 23.  
Sectional stand. A. B. Gielt and R. W. Knowles. 1,696,641; Jan. 1.  
Sectional transfer roller. O. C. Roesen. 1,718,705; June 25.  
Sections for aluminothermic welding, Preparing. H. Schultz. 1,712,524; May 14.  
Securing bolt, Adjustable. W. J. Spiro. 1,732,992; Oct. 22.  
Securing can covers to can bodies, Method and apparatus for. C. G. Hornung. 1,719,547; July 2.  
Securing car doors, Device for. F. J. Gilroy. 1,708,223; Apr. 9.  
Securing device. R. C. Angell. 1,715,975; June 4.  
Securing device. C. F. Doerschuk. 1,709,251; Apr. 16.  
Securing device. E. Marliere. 1,735,770; Nov. 12.  
Securing device for axle bearings. J. S. McWhirter. 1,719,436; July 2.  
Securing means. I. D. Ford. 1,730,607; Oct. 8.  
Securing means for concrete forms or the like. C. I. Williams. 1,716,872; June 11.  
Securing plaster board in place. W. B. Thurman and M. W. Hild. 1,737,100; Nov. 26.  
Seed cutter, Potato. P. Fowler. 1,726,145; Aug. 27.  
Seed drill. C. J. Allen. 1,703,467; Feb. 26.  
Seed drill. G. L. Kier. 1,700,738; Feb. 5.  
Seed-gathering device. S. L. Mosher. 1,724,037; Aug. 13.  
Seed huller. A. V. Cleland. 1,708,604; Apr. 9.  
Seed huller. R. Stanley. 1,735,550; Nov. 12.  
Seed-planting machine. A. R. Soltesz. 1,713,984; May 21.  
Seed-separating method and apparatus. H. R. Warren. 1,721,423; July 16.  
Seed-separating process and solution therefor. H. R. Warren. 1,708,435; Apr. 9.  
Seed trap. S. G. Vidler. 1,709,291; Apr. 16.  
Seed treating and mixing device for grain drills. E. R. Watkins. 1,707,698; Apr. 2.  
Seed-treating apparatus. C. M. Phillips. 1,733,314; Oct. 29.  
Seed-treating machine, Force-feed. G. L. Swenson. 1,713,568; May 21.  
Seeder. J. W. Brich, jr. 1,738,349; Dec. 3.  
Seeder. A. Shireman. 1,733,562; Oct. 29.  
Seeder, Disk. J. A. Simpson. 1,698,175; Jan. 8.  
Seeding machine. T. Brennan. 1,705,234; Mar. 12.  
Seeding machine. T. Brennan. 1,735,232; Nov. 12.  
Seeding machine. D. J. Stewart. 1,697,793; Jan. 1.  
Seepage protector for building walls. E. Schou. 1,704,954; Mar. 12.  
Segment for crusher rolls, Removable. G. E. Krider. 1,713,609; May 21.  
Segment-trimming device. T. Ross. 1,718,382; June 25.  
Segmental brake, Multiplying. P. Bastien. 1,697,838; Jan. 1.  
Segregating apparatus. F. Heath. 1,708,670; Apr. 9.  
Segregator, Spurious-coin. J. H. Mann, jr. 1,699,300; Jan. 15.  
Seining apparatus. C. T. Smith. 1,719,202; July 2.  
Selective apparatus. M. H. Loughridge. 1,724,210; Aug. 13.  
Selective system and apparatus. E. E. Kleinschmidt. 1,703,152; Feb. 26.  
Selector. F. Merk. 1,712,393; May 7.  
Selector. R. E. Vaughan, M. H. Redman, and W. S. D. Leland. 1,710,126; Apr. 23.  
Selector and receiver for radio frequency energy. F. A. Kolster. 1,717,455; June 18.  
Selector mechanism. P. A. Gollnick, J. J. Toolan, and C. G. Kranz. 1,708,268; Apr. 9.  
Selector switch. J. I. Bellamy and R. F. Stehlik. 1,729,980; Oct. 1.  
Selector switch. D. L. Lienzen. 1,728,348; Sept. 17.  
Selenium cell. J. Neale. 1,728,073; Sept. 10.  
Selenium cell. H. Thirring. 1,703,798; Feb. 26.  
Selenium, Recovering. D. L. Ogden and R. E. Valentine. 1,730,681; Oct. 8.  
Self basting and turning roaster. O. Zimmermann. 1,712,242; May 7.  
Self-cleaning cup ring. G. A. Gage. 1,714,164; May 21.  
Self-cleaning tank. N. M. Lower. 1,702,908; Feb. 19.  
Self-feeding attachment for furnaces. F. C. Brown. 1,719,258; July 2.  
Self-igniting engine. F. B. Stearns. 1,722,772; July 30.  
Self-lowering jack. S. Selden. 1,706,710; Mar. 26.  
Self-lubricating pin. G. B. Ingersoll. 1,734,581; Nov. 5.  
Self-oiling pin. J. G. Zhwann. 1,712,683; May 14.  
Salvage protector. J. Collie. 1,707,388; Apr. 2.  
Salvage-trimming mechanism. H. A. Davis. 1,697,812; Jan. 1.  
Semaphore. I. E. Torrence. 1,721,536; July 23.  
Semaphore, Motor-vehicle. R. C. Harbord. 1,731,569; Oct. 15.  
Semiscalding fowls, Device for. S. S. Barker and A. W. Bruce. 1,730,964; Oct. 8.  
Sensitized element, silver halid emulsion therefor, and manufacturing the same. O. Matthies, W. Dieterle, and B. Wendt. 1,742,042; Dec. 31.  
Separating and concentrating mechanism. L. W. Baney and E. G. Messer. 1,719,958; July 9.  
Separating and purifying apparatus for liquids. J. Schäfer. 1,711,428; Apr. 30.  
Separating and supplying threads particularly to warp-bedding machines, Device for. W. Hammer. 1,716,549; June 11.  
Separating comminuted matter from the liquid in which it is immersed. C. H. Nordell. 1,718,871; June 25.  
Separating copper from nickel. I. W. Wilenchik. 1,703,329; Feb. 26.  
Separating fibers from bast plants and other adhering fibers, Apparatus for. R. L. Pritchard. 1,722,110; July 23.  
Separating gold from sand, Apparatus for. G. Kettle. 1,704,746; Mar. 12.  
Separating impurities from liquids. C. H. Hapgood. 1,711,315; Apr. 30.  
Separating liquids. E. H. Haabestad. 1,716,957; June 11.  
Separating liquids and means therefor. F. Pink. 1,698,002; Jan. 8.  
Separating liquids and solids, Apparatus for. H. C. Behr. 1,727,855; Sept. 10.  
Separating liquids, Apparatus for. B. D. Comyn. 1,707,077; Mar. 26.  
Separating liquids having different boiling points. B. Torrey, jr., and G. R. Sanford. 1,701,988; Feb. 12.  
Separating liquids of different specific gravity, Apparatus for. F. Pink. 1,698,067; Jan. 8.  
Separating machine. R. Reid. 1,721,281; July 16.  
Separating machine, Sheet. F. J. Baxter. 1,702,293; Feb. 19.  
Separating materials of different specific gravities, Apparatus for. H. M. Chance. 1,730,189; Oct. 1.  
Separating materials of varying degrees of conductivity, Apparatus for. R. Sherer. 1,738,399; Dec. 3.  
Separating mechanism, Coal and rock. T. Katayama. 1,705,456; Mar. 12.  
Separating metallic chromium for the production of chromium coatings on other metals, Electrolytically. R. Appel. 1,713,514; May 21.  
Separating minerals and other substances, Apparatus for. T. M. Davidson. 1,719,171; July 2.  
Separating oil and oil vapors, Method of and apparatus for. J. Primrose. 1,723,748; Aug. 6.  
Separating paraffinous constituents from fluid hydrocarbons. E. A. Forsberg. 1,699,286; Jan. 15.  
Separating precious metals and copper from cyanide solution. L. H. Duschak. 1,699,350; Jan. 15.  
Separating raisins from foreign matter, Device for. W. Stoner. 1,711,817; May 7.  
Separating sheets, Method and apparatus for. C. B. Moran. 1,702,126; Feb. 12.  
Separating solids from liquids. A. L. Blomfield, L. S. Harner, and H. S. Coe. 1,702,192; Feb. 12.  
Separating the fibers of twisted ropes of crin végétal and the like material. F. A. W. Meyneken. 1,719,438; July 2.  
Separating wax from mineral oils. R. E. Wilson. 1,719,350; July 2.  
Separation by liquefaction. R. C. Tolman, W. L. De Baufre, J. W. Davis, and M. H. Roberts. 1,728,947; Sept. 24.  
Separation of combustible material from its associated noncombustible material, Apparatus for. W. L. Remick. 1,711,326; Apr. 30.  
Separation of compounds from mixtures of oxygen containing organic compounds. M. Luther and H. Jochheim. 1,704,751; Mar. 12.  
Separation of dry materials, Apparatus for the. H. M. Sutton and W. L. and E. G. Steele. 1,705,342; Mar. 12.  
Separation of dry materials, Process and apparatus for the. H. M. Sutton and W. L. and E. G. Steele. 1,710,521; Apr. 23.  
Separation of gases. J. Reilly and E. W. Blair. 1,706,707; Mar. 26.  
Separation of low-temperature tar into phenols and hydrocarbons. A. Correll. 1,709,309; Apr. 16.  
Separation of masses of materials, Process and apparatus for the dry. H. M. Sutton, and W. L. and E. G. Steele. 1,699,382; Jan. 15.  
Separation of materials by flotation. F. E. Elmore. 1,706,281; Mar. 19.  
Separation of minerals and other substances. T. M. Davidson. 1,736,111; Nov. 19.  
Separation of mixed sulphide ores by flotation. W. D. Green. 1,721,993; July 23.  
Separation of ores and other mixtures of materials on drum separator, Process and apparatus for the wet-magnetic. G. Ullrich. 1,697,375; Jan. 1.  
Separation of phosphorus from phosphorous vapors. M. Mayer. 1,721,868; July 23.  
Separation of refractory materials. E. L. Hauman. 1,703,065; Feb. 19.  
Separation of solids, Apparatus for. W. A. Duerr. 1,728,046; Sept. 10.  
Separation of solids in liquids, Apparatus for the. A. L. Blomfield, L. S. Harner, and H. S. Coe. 1,702,193; Feb. 12.  
Separation table, Pneumatic. G. Raw. 1,730,947; Oct. 8.



- Separator: *See*—  
 Air and cotton separator. Grain separator.  
 Air separator. Hydraulic separator.  
 Centrifugal separator. Liquid separator.  
 Clarifying separator. Magnetic separator.  
 Cotton separator. Milk and cream separator.  
 Cranberry separator. Oats separator.  
 Cream separator. Oil and water separator.  
 Egg separator. Oil separator.  
 Dry separator. Oil-water and air separator.  
 Dust separator. Ore separator.  
 Electromagnetic separator. Sand and rock separator.  
 Fluid separator. Sheet separator.  
 Gas and liquid separator. Steam separator.  
 Gas, oil, and water separator. Tangential separator.  
 Gas separator. Tooth separator.  
 Separator. J. B. Brennen. 1,713,371; May 14.  
 Separator. F. A. Browne. 1,734,324; Nov. 5.  
 Separator. J. Degerth. 1,704,658; Mar. 5.  
 Separator. E. McKain. 1,719,119; July 2.  
 Separator. A. R. Mumford. 1,728,877; Sept. 17.  
 Separator. S. C. Parker. 1,725,474; Aug. 20.  
 Separator. P. Pascale. 1,724,105; Aug. 13.  
 Separator. J. C. Pettit. 1,722,943; July 30.  
 Separator. H. M. Plaisted. 1,724,041; Aug. 13.  
 Separator. M. Sprockhoff. 1,732,386; Oct. 22.  
 Separator. S. L. Stovall. 1,727,733; Sept. 10.  
 Separator. G. C. Webster. 1,697,743; Jan. 1.  
 Separator and collector. Dust. T. S. Monaghan. 1,723,703; Aug. 6.  
 Separator and method therefor. F. G. Hughes. 1,712,076; May 7.  
 Separator and recleaning device, Grain. H. Mjolsness. 1,705,302; Mar. 12.  
 Separator and valve therefor, Centrifugal. C. W. Stratford. 1,741,207; Dec. 31.  
 Separator and vaporizer, Fuel. G. A. Dynon. 1,706,845; Mar. 26.  
 Separator apparatus. C. Matlock. 1,738,717; Dec. 10.  
 Separator bowl, Self-draining cream-. C. Diercks. 1,699,055; Jan. 15.  
 Separator, Continuously-operating centrifugal sludge. A. Nyrop. 1,735,692; Nov. 12.  
 Separator foot. J. A. Atzert. 1,737,401; Nov. 26.  
 Separator for fur, wool, and cotton. H. B. Fanton. 1,706,221; Mar. 19.  
 Separator for granular material. G. F. Royer. 1,736,054; Nov. 19.  
 Separator or the like, Centrifugal. A. C. Bamford. 1,729,753; Oct. 1.  
 Separator tank. M. F. Waters. 1,724,537; Aug. 13.  
 Separators, Attachment for cream. R. Jacobs. 1,742,073; Dec. 31.  
 Separators, Drive unit for coal. J. T. Norman. 1,727,215; Sept. 3.  
 Septic tank. C. L. Carpenter and W. E. Jaquith. 1,708,113; Apr. 9.  
 Septic tank. W. F. Miller. 1,715,466; June 4.  
 Sequence indicator, Phase-. O. A. Knopp. 1,703,345; Feb. 26.  
 Series boiler. D. S. Jacobus. 1,741,701; Dec. 31.  
 Serum, Medical. L. Fejes and B. Böttcher. 1,718,282; June 25.  
 Server. N. Weidner. 1,718,015; June 18.  
 Server and fan, Combined cone and bottle. F. A. Cunningham. 1,702,199; Feb. 12.  
 Server, Ice and butter. E. J. Allen. 1,731,604; Oct. 15.  
 Service apparatus. F. E. Adams. 1,709,245; Apr. 16.  
 Service box. P. Mueller. 1,714,803; May 23.  
 Service box, Electric-wire. W. T. Ohman. 1,715,073; May 28.  
 Service indicator. D. E. Keeney. 1,707,728; Apr. 2.  
 Service station, Liquid-. J. J. Hawxburst. 1,707,938; Apr. 2.  
 Service table, Hotel-room. F. Rygl. 1,729,491; Sept. 24.  
 Serving apparatus. B. H. Allen. 1,705,744; Mar. 19.  
 Serving device for restaurants, Automatic. G. Giambra. 1,739,900; Dec. 17.  
 Serving table. G. M. Patterson. 1,740,831; Dec. 24.  
 Serving table, Self-. O. J. Jordan. 1,731,303; Oct. 15.  
 Servo brake. F. Athimon. 1,727,742; Sept. 10.  
 Servo brake. V. Bendix. 1,710,338; Apr. 23.  
 Set works. E. C. Turner and S. S. Grammer. 1,716,396; June 11.  
 Settee frame or similar article. O. A. Anderson. Des. 77,455-7; Jan. 15.  
 Settee frame or similar article. C. Bauer. Des. 78,078; Mar. 26.  
 Settee frame or similar article. C. Bauer. Des. 78,917-18; July 9.  
 Settee frame or similar article. C. Bauer. Des. 79,693; Oct. 29.  
 Settee frame or similar article. C. W. Jones. Des. 78,929; July 9.  
 Settee or similar article. C. Stoll. Des. 79,490-1; Sept. 24.  
 Settee or similar article. C. Stoll. Des. 80,192; Dec. 24.  
 Setting head for sawmill log carriages. C. W. Albrecht. 1,700,151; Jan. 29.  
 Setting machine for time fuses. O. Junghans. 1,724,484; Aug. 13.  
 Setting mechanism. E. K. Hunter and J. R. C. August. 1,723,784; Aug. 6.  
 Setting provided with removable stones. M. G. E. Rochas. 1,712,171; May 7.  
 Setting saw teeth and the like, Device for. T. H. Lancaster. 1,718,696; June 25.  
 Settling device, Continuous-. J. Q. Horne. 1,716,228; June 4.  
 Severing glass or the like. F. N. Campbell and J. Myatt. 1,719,588; July 2.  
 Severing glass or the like, Apparatus for. F. N. Campbell and J. Myatt. 1,720,833; July 16.  
 Severing sheets, Apparatus for. W. Owen. 1,710,238; Apr. 23.  
 Severing traveling webs of material into strips. W. E. Molins. 1,700,906; Feb. 5.  
 Sewage-disposal apparatus. M. B. Tark. 1,714,739; May 28.  
 Sewage-disposal means. E. D. Lewis. 1,705,869; Mar. 19.  
 Sewage-disposal plant, Septic. L. J. Bomhoff. 1,738,521; Dec. 10.  
 Sewage-disposal system. R. M. Birnbach. 1,708,864; Apr. 9.  
 Sewage, Mechanism for raising. L. R. Titcomb and H. S. Ashmun. 1,713,791; May 21.  
 Sewage, Method of and apparatus for purifying. J. R. Downes. 1,738,362; Dec. 3.  
 Sewage treatment, Accelerating the sludge digestion for. M. Prüss. 1,722,945; July 30.  
 Sewage treatment by activated sludge in combination with a preliminary tank treatment. K. Imhoff. 1,700,722; Jan. 29.  
 Sewage-treatment plant. J. T. Travers. 1,715,438; June 4.  
 Sewer check. H. Wagner. 1,732,319; Oct. 22.  
 Sewer construction. G. F. Egan. 1,711,674; May 7.  
 Sewer-flushing device. L. F. Katona. 1,704,437; Mar. 5.  
 Sewer-flushing device. L. F. Katona. 1,722,471; July 30.  
 Sewer form of the like. J. J. Reading. 1,698,967; Jan. 15.  
 Sewing and pressing mechanism. L. F. Rosenbaum and E. C. Bowers. 1,702,271; Feb. 19.  
 Sewing attachment, Button-. J. R. Wilson. 1,736,475; Nov. 19.  
 Sewing bags, Apparatus for. J. E. Cornell. 1,731,295; Oct. 15.  
 Sewing machine. E. Angst. 1,741,179; Dec. 31.  
 Sewing machine. J. Bingham. 1,713,943; May 21.  
 Sewing machine. A. F. Carlson. 1,738,868; Dec. 10.  
 Sewing machine. A. F. Carlson. 1,739,059; Dec. 10.  
 Sewing machine. A. Clarkson. 1,715,119; May 28.  
 Sewing machine. G. J. Dordmandy. 1,704,824; Mar. 12.  
 Sewing machine. J. Gouldbourn and A. E. Headley. 1,731,622; Oct. 15.  
 Sewing machine. C. H. Greenwood. 1,699,354; Jan. 15.  
 Sewing machine. J. Kiewicz. 1,726,154; Aug. 27.  
 Sewing machine. K. Klein. 1,728,734; Sept. 17.  
 Sewing machine. F. N. LaChapelle. 1,734,679-80; Nov. 5.  
 Sewing machine. B. T. Leveque. 1,705,193; Mar. 12.  
 Sewing machine. B. T. Leveque. 1,738,778; Dec. 10.  
 Sewing machine. B. T. Leveque. 1,739,241; Dec. 10.  
 Sewing machine. B. T. Leveque. 1,739,243; Dec. 10.  
 Sewing machine. J. R. Moffatt. 1,726,853; Sept. 8.  
 Sewing machine. J. R. Moffatt and R. S. Kelso. 1,736,458; Nov. 19.  
 Sewing machine. A. R. Morrill. 1,702,662; Feb. 19.  
 Sewing machine. J. A. Mulligan. 1,725,819; Aug. 27.  
 Sewing machine. J. R. Oliver. 1,712,517; May 14.  
 Sewing machine. J. R. Oliver. 1,716,561; June 11.  
 Sewing machine. W. P. Paxton. 1,725,825; Aug. 27.  
 Sewing machine. P. W. Pittman. 1,735,178; Nov. 12.  
 Sewing machine. J. H. Richardson. 1,712,679; May 14.  
 Sewing machine. F. Ricks and R. B. Woodcock. 1,707,571; Apr. 2.  
 Sewing machine. V. G. Saurman. 1,738,672; Dec. 10.  
 Sewing machine. M. M. Scharf. 1,719,785; July 2.  
 Sewing machine. M. M. Scharf. 1,727,908; Sept. 10.  
 Sewing machine. T. H. Seely. 1,707,577; Apr. 2.  
 Sewing machine. H. M. Stephenson. 1,723,897; Aug. 6.  
 Sewing machine. H. M. Stephenson. 1,740,380; Dec. 17.  
 Sewing machine and forming seams. F. W. Davidson. 1,733,867; Oct. 29.  
 Sewing-machine attachment. M. E. Johnson. 1,739,397; Dec. 10.  
 Sewing-machine attachment. F. P. Moore. 1,723,198; Aug. 6.  
 Sewing-machine attachment. J. B. Ransom. 1,720,292; July 9.  
 Sewing-machine attachment. T. Roberts. 1,706,633; Mar. 26.  
 Sewing-machine attachments, Trimming device for. A. Mistretta. 1,713,296; May 14.  
 Sewing machine, Blind-stitch. C. W. Mueller. 1,739,081; Dec. 10.  
 Sewing machine, Blindstitch-. F. M. Prestwich. 1,735,584; Nov. 12.  
 Sewing-machine braider or corder. A. J. Carmichael and A. M. Wunderlich. 1,697,555; Jan. 1.  
 Sewing-machine braider or corder. A. J. Carmichael and A. M. Wunderlich. 1,704,170; Mar. 5.  
 Sewing machine, Buttonhole-. E. B. Allen. 1,738,631; Dec. 10.  
 Sewing machine, Buttonhole-. A. F. Carlson. 1,729,995; Oct. 1.  
 Sewing machine, Buttonhole-. J. W. Connors. 1,710,765; Apr. 30.  
 Sewing machine, Buttonhole-. J. Kiewicz. 1,709,726; Apr. 16.  
 Sewing machine, Buttonhole-. J. Kiewicz. 1,726,153; Aug. 27.



- Sewing machine, Buttonhole-. F. A. Reece. 1,703,954; Mar. 5.
- Sewing machine, Buttonhole-. F. A. Reece. 1,726,922; Sept. 3.
- Sewing-machine case. D. H. Chason. 1,736,306; Nov. 19.
- Sewing machine, Electrically driven and lighted. F. H. Keeney. 1,711,792; May 7.
- Sewing machine, Feed-off-the-arm. N. V. Christensen. 1,718,411; June 25.
- Sewing machine, Feed-off-the-arm. N. V. Christensen and H. J. Le Vesconte. 1,741,095-6; Dec. 24.
- Sewing machine, Filled-bag-. S. G. Tate. 1,726,868; Sept. 3.
- Sewing machine, Filled-bag-. C. S. Thompson and W. B. Long. 1,725,943; Aug. 27.
- Sewing-machine folder. J. Mann. 1,712,964; May 14.
- Sewing-machine frame. C. W. Mueller. Des. 79,780; Oct. 29.
- Sewing-machine frame, Portable. R. L. Plumley. Des. 80,185; Dec. 24.
- Sewing machine, Fur-. J. R. Moffatt. 1,731,079; Oct. 8.
- Sewing machine, Glove-. H. J. Le Vesconte. 1,697,984; Jan. 8.
- Sewing-machine guard. R. L. Lyons. 1,711,606; May 7.
- Sewing machine, Hat-. R. Becker. 1,731,221; Oct. 8.
- Sewing-machine hemmer. A. J. Carmichael and O. Balzano. 1,704,168; Mar. 5.
- Sewing machine, Hemstitch-. G. M. Eames and J. C. Ringe. 1,715,079; May 28.
- Sewing machine, Inseam-. A. R. Morrill. 1,714,801; May 28.
- Sewing machine, Lock-stitch. M. T. Denne. 1,715,822; June 4.
- Sewing-machine loop takers, Guard for. W. N. Parkes. 1,728,506; Sept. 17.
- Sewing machine, Motor-gear. C. W. H'Doubler. 1,730,141; Oct. 1.
- Sewing machine, Multihead. C. Lehmann. 1,704,009; Mar. 5.
- Sewing machine or other machine employing wax or like heating devices, Wax-thread. F. Ricks. 1,731,109; Oct. 8.
- Sewing machine, Overseaming. C. R. Colt. 1,740,808; Dec. 24.
- Sewing-machine presser foot. A. J. Carmichael and O. Balzano. 1,704,169; Mar. 5.
- Sewing-machine presser foot. A. A. Merritt. 1,729,117; Sept. 24.
- Sewing-machine presser foot. A. A. Merritt and J. F. Getler. 1,697,571; Jan. 1.
- Sewing-machine presser foot. G. L. Summers. 1,732,665; Oct. 22.
- Sewing machine, Puller-feed. J. P. Weis. 1,736,297; Nov. 19.
- Sewing-machine ruffler. A. J. Carmichael and O. Balzano. 1,725,751; Aug. 27.
- Sewing machine, Shoe-. J. H. Reed. 1,706,743; Mar. 26.
- Sewing machine, Shoe-. J. H. Reed. 1,707,569; Apr. 2.
- Sewing machine, Shoe-. J. Sünder and E. Renno. 1,706,756; Mar. 26.
- Sewing-machine take-up. H. M. Stephenson. 1,723,898; Aug. 6.
- Sewing machine, Welt-. J. R. Oliver. 1,716,562; June 11.
- Sewing machines and thread controls for the looper, Loop-operating mechanism for. A. J. Wohlpart. 1,699,262; Jan. 15.
- Sewing machines, Arm and bedplate for. C. H. Greenwood. 1,708,296; Apr. 9.
- Sewing machines, Automatic stop for. C. A. Couch and S. P. Hatcher. 1,722,277; July 30.
- Sewing machines, Automatic work-starting mechanism for. L. Roseman. 1,724,681; Aug. 13.
- Sewing machines, Auxiliary presser-foot attachment for. J. A. Firsching. 1,733,870; Oct. 29.
- Sewing machines, Cast-off mechanism for. B. T. Leveque. 1,713,186; May 14.
- Sewing machines, Combination oil receiver and guard for. I. Feldman. 1,741,454; Dec. 31.
- Sewing machines, Combined top-feed and ruffler mechanism for cylinder. J. P. Weis. 1,736,298; Nov. 19.
- Sewing machines, Cutting attachment for. A. Krasa. 1,738,186; Dec. 3.
- Sewing machines, Cut-off for. H. J. Isabelle. 1,731,496; Oct. 15.
- Sewing machines, Darner foot for. J. H. Pettit. 1,726,450; Aug. 27.
- Sewing machines, Electric-motor drive for. R. Ehrenfeld. 1,715,698; June 4.
- Sewing machines, Embroidery attachment for. L. Matthews. 1,704,095; Mar. 5.
- Sewing machines, End cap for cylinder-bed. G. S. Gatchell. 1,724,274; Aug. 13.
- Sewing machines, Feed mechanism for. B. T. Leveque. 1,739,244; Dec. 10.
- Sewing machines, Feeding mechanism for. F. M. Card. 1,729,994; Oct. 1.
- Sewing machines, Feeding mechanism for. J. R. Moratt. 1,731,105; Oct. 8.
- Sewing machines, Feeding mechanism for overseaming. H. A. Klemm. 1,709,793; Apr. 16.
- Sewing machines, Folder attachment for. L. A. Beeson. 1,714,342; May 21.
- Sewing machines, Knee control mechanism for portable electric. D. H. Chason. 1,721,069; July 16.
- Sewing machines, Loop forming device for. G. S. Gatchell. 1,738,644; Dec. 10.
- Sewing machines, Loop-spreader mechanism for. M. Köhler. 1,715,370; June 4.
- Sewing machines, Looper-actuating mechanism for over-edge. F. Lutz. 1,719,709; July 2.
- Sewing machines, Looper mechanism for. J. Berger. 1,741,910; Dec. 31.
- Sewing machines, Looper mechanism for. L. G. Bowman. 1,738,559; Dec. 10.
- Sewing machines, Looper mounting for. K. Maier. 1,725,591; Aug. 20.
- Sewing machines, Looper-operating mechanism for. J. Berger. 1,735,628; Nov. 12.
- Sewing machines, Looper-thread controlling mechanism for. A. B. Clayton. 1,738,525; Dec. 10.
- Sewing machines, Needle-actuating mechanism for. F. Lutz. 1,718,427; June 25.
- Sewing machines, Needle-actuating mechanism for. C. S. Thompson and W. B. Long. 1,737,395; Nov. 26.
- Sewing machines, Needle-bar-controlling device for. F. M. Card. 1,697,383; Jan. 1.
- Sewing machines, Needle guard for. M. Shanessey. 1,712,357; May 7.
- Sewing machines, Needle head for. N. E. Hanson. 1,725,916; Aug. 27.
- Sewing machines, Needle-protecting attachment for. A. Bebel. 1,732,394; Oct. 22.
- Sewing machines, Needle-thread controller for. J. C. Ringe. 1,732,206; Oct. 15.
- Sewing machines, Needle-thread-controlling mechanism for. J. Berger. 1,726,880; Sept. 3.
- Sewing machines, Plunger mechanism for blindstitch. C. W. Mueller. 1,715,562; June 4.
- Sewing machines, Presser foot for. J. Berger. 1,718,889; June 25.
- Sewing machines, Presser foot for. N. V. Christensen. 1,731,094; Oct. 8.
- Sewing machines, Presser foot for. W. M. Hanneman and R. H. Rideout. 1,718,904; June 25.
- Sewing machines, Presser-foot-lifter attachment for. L. A. Russell. 1,705,783; Mar. 19.
- Sewing machines, Presser-foot mechanism for. J. H. Reed. 1,733,515; Oct. 29.
- Sewing machines, Pull-off for. J. Mann. 1,727,614; Sept. 10.
- Sewing machines, Reversible feed for. J. R. Moffatt. 1,731,080; Oct. 8.
- Sewing machines, Stitch-forming mechanism for. C. F. Rubel. 1,707,068; Mar. 26.
- Sewing machines, Stitch-forming mechanism for. V. J. Sigoda. 1,714,928; May 28.
- Sewing machines, Strip-feeding mechanism for. K. Maier. 1,731,074; Oct. 8.
- Sewing machines, Thread-controlled stopping device for. J. F. Gail. 1,738,142; Dec. 3.
- Sewing machines, Thread controller for. J. R. Moffatt. 1,723,195-6; Aug. 6.
- Sewing machines, Thread controller for. J. R. Moffatt. 1,732,979; Oct. 22.
- Sewing machines, Thread-controlling mechanism for. C. F. Rubel. 1,736,466; Nov. 19.
- Sewing machines, Thread-controlling mechanism for buttonhole. E. B. Allen. 1,711,483; May 7.
- Sewing machines, Throat plate for. K. Maier. 1,717,050; June 11.
- Sewing machines, Work-clamp-spreading mechanism for. A. F. Carlson and H. E. Althens. 1,726,383; Aug. 27.
- Sewing machines, Work-presenting mechanism for blindstitch. C. W. Mueller. 1,726,448; Aug. 27.
- Sewing outfit and material holder, Combined. A. G. Little. Des. 78,035; Mar. 19.
- Sewing powder puffs, Device for. L. L. Raynor. 1,736,461; Nov. 19.
- Sextant. L. B. Sperry. 1,697,293; Jan. 1.
- Shackle. H. E. Rottmer. 1,719,673; July 2.
- Shackle and making same, Rubber. B. H. Zeibig. 1,734,025; Oct. 29.
- Shackle, Link. G. J. Fayette and J. S. Rolph. 1,726,659; Sept. 3.
- Shackle, Pitch. R. H. Anderson. 1,735,716; Nov. 12.
- Shackle, Resilient. C. T. Dickey. 1,720,545; July 9.
- Shackle, Rubber spring. T. P. Chase. 1,703,296; Feb. 26.
- Shackle, Rubber spring. H. D. Geyer. 1,708,219; Apr. 9.
- Shackle, Spring. H. W. Bell. 1,697,452; Jan. 1.
- Shackle, Spring. R. H. Chilton. 1,709,828-9; Apr. 23.
- Shackle, Spring. H. D. Geyer. 1,708,220; Apr. 9.
- Shackle, Spring. W. S. James. 1,697,066; Jan. 1.
- Shade. W. Von Nessen. Des. 80,062; Dec. 3.
- Shade adapter, Lamp-. W. Jaeger. 1,724,091; Aug. 13.
- Shade-adjusting device, Window-. F. J. Bushek. 1,715,640; June 4.
- Shade and awning, Combined window. T. H. Chandler. 1,710,920; Apr. 30.
- Shade and combination thereof with lamps, Lamp. G. Sakier. 1,741,658; Dec. 31.
- Shade and curtain-rod support, Combined window-. E. R. Davis and C. C. Shiber. 1,715,227; May 23.
- Shade and flower holder, Combined. H. D. Weissberg. 1,718,266; June 25.
- Shade and making same, Lamp. L. R. and R. Foss. 1,720,787; July 16.
- Shade and making same, Ornamental lamp. B. H. Shapiro. 1,710,516; Apr. 23.



- Shade and making the same, Lamp. A. E. Dixon. 1,733,451; Oct. 29.
- Shade and reflector, Combined. W. Rosebraugh. 1,717,067; June 11.
- Shade and the like, Lamp. A. L. M. Caldwell. 1,727,859; Sept. 10.
- Shade, Automobile. D. F. Fitzgerald. 1,715,998; June 4.
- Shade, Automobile. J. C. W. Smith. 1,708,035; Apr. 9.
- Shade bracket, A. W. Jeschke. 1,708,727; Apr. 9.
- Shade bracket, Adjustable. D. M. Sarkisian. 1,701,960; Feb. 12.
- Shade casing, Roller-. L. M. Lasell. 1,713,666; May 21.
- Shade, Curtain. M. A. Henry. Des. 78,573; May 21.
- Shade fixture, Roller-. W. A. Baber. 1,706,511; Mar. 28.
- Shade for lighting fixture. R. Haley. Des. 77,898; Mar. 5.
- Shade hanger. A. Moore. 1,708,733; Apr. 9.
- Shade hanger, Roller-. W. L. Owen. 1,703,951; Mar. 5.
- Shade hanger. Vertically-adjustable. B. W. Whitworth. 1,708,991; Apr. 16.
- Shade housing, Window-. A. Y. Carper. 1,731,124; Oct. 8.
- Shade, Lamp. M. I. Adamaitis. 1,708,714; Apr. 9.
- Shade, Lamp. C. Apelt. Des. 77,385; Jan. 8.
- Shade, Lamp. W. Bird. Des. 79,619; Oct. 22.
- Shade, Lamp. W. Stanyo. Des. 77,657; Feb. 5.
- Shade, Lamp. C. Webke. Des. 79,344; Sept. 3.
- Shade, Lamp. J. C. Zuleger. 1,721,540; July 23.
- Shade, Lighting-fixture. A. J. D. Ohm. Des. 79,237; Aug. 20.
- Shade, Lighting-fixture. A. J. D. Ohm. Des. 79,979; Nov. 26.
- Shade, Nonglare automobile lamp. E. R. Houk. 1,725,642; Aug. 20.
- Shade, Ornamental. I. G. Pride. 1,726,452; Aug. 27.
- Shade-pull clasp. A. Ehling. 1,740,975; Dec. 24.
- Shade roll. W. E. Sarraan. 1,701,465; Feb. 5.
- Shade roll. W. E. Sarraan. 1,727,788; Sept. 10.
- Shade roller. C. Bender and M. Beck. 1,732,430; Oct. 22.
- Shade roller. J. Goodman. 1,726,393; Aug. 27.
- Shade roller. S. Hartshorn. 1,725,269-70; Aug. 20.
- Shade roller. N. Naman. 1,710,065; Apr. 23.
- Shade roller. R. C. Schemmel. 1,700,082; Jan. 22.
- Shade roller. E. W. Vanderhoff. 1,728,457; Sept. 17.
- Shade roller, Automatic. A. R. Mitchell. 1,741,871; Dec. 31.
- Shade roller, Curtain-. C. A. Daniel. Re1,750,7; Nov. 26.
- Shade-roller-retaining means. C. D. Turlington. 1,720,580; July 9.
- Shade stop. H. L. Strongson. 1,706,261; Mar. 19.
- Shade support, Lamp-. G. Hill and E. P. Turner. 1,699,664; Jan. 22.
- Shade, Window. K. R. Hammond. 1,700,676; Jan. 29.
- Shade, Window. N. M. Mastromonaco. 1,712,574; May 14.
- Shade, Window. V. Nyeznick and S. Jankowski. 1,726,408; Aug. 27.
- Shade, Window. O. S. and J. T. Ratliff. 1,726,411; Aug. 27.
- Shade, Window. N. Schiff. 1,713,452; May 14.
- Shade, Window. C. A. Sembower. 1,725,307; Aug. 20.
- Shadow-letter production for educational and commercial purposes. F. J. Wilkins. 1,712,371; May 7.
- Shaft and bearing, Antifriction. W. R. Matthews. 1,725,290; Aug. 20.
- Shaft and elevator construction for handling material. R. Begich and G. Jakopec. 1,713,365; May 14.
- Shaft and gudgeon, Combined. D. H. Wolfe. 1,700,867; Feb. 5.
- Shaft and like coupling. H. L. Kingsmill. 1,733,021; Oct. 22.
- Shaft coupling. E. J. Hall. 1,698,160; Jan. 8.
- Shaft coupling. C. E. Hubbard. 1,715,293; May 28.
- Shaft coupling. K. R. Manville. 1,720,422; July 9.
- Shaft coupling. E. Martin. 1,716,593; June 11.
- Shaft coupling. H. Rusby. 1,729,899; Oct. 1.
- Shaft coupling, Flexible. C. H. Knudsen. 1,712,219; May 7.
- Shaft coupling, Flexible. T. E. Murray. 1,702,057; Feb. 12.
- Shaft coupling, Flexible. W. E. Sykes. 1,717,816; June 18.
- Shaft coupling, Flexible. R. W. Wilson. 1,734,988; Nov. 12.
- Shaft coupling, Resilient. G. H. Fletcher and H. Rusby. 1,727,055; Sept. 3.
- Shaft, Expansion. J. F. Stachowski. 1,710,902; Apr. 30.
- Shaft, Flexible. B. Granville. 1,739,756; Dec. 17.
- Shaft, Flexible. O. Ohlson. 1,710,237; Apr. 23.
- Shaft hanger, Adjustable. J. P. Golden. 1,703,767; Feb. 26.
- Shaft hanger and bearing. T. Anthoni. 1,729,499; Sept. 24.
- Shaft lock, Rotary-. R. R., Jr., and W. F. Haupt. 1,700,049; Jan. 22.
- Shaft packing. R. C. Allen. 1,734,458; Nov. 5.
- Shaft regulator, Condenser-. A. J. Truelson. 1,700,150; Jan. 29.
- Shaft seal. J. O. Carrey. 1,740,632; Dec. 24.
- Shaft seal. H. H. Nesbitt. 1,720,920; July 16.
- Shaft-straightening machine. M. H. Damerell. 1,722,841; July 30.
- Shafts, caissons, and the like, Apparatus for lining walls of. J. M. Leighton. 1,727,996; Sept. 10.
- Shafts, Counterbalancing. W. G. Pontis. 1,733,821; Oct. 29.
- Shafts, piles, and the like, Producing and placing. G. B. Sipe. 1,706,002; Mar. 19.
- Shafts to hubs, Keying. W. G. Wilson. 1,734,188; Nov. 5.
- Shaker cap. R. W. Wilson. 1,730,870; Oct. 8.
- Shaker, Cocktail. A. J. Bennett. 1,703,334; Feb. 26.
- Shaker, Combined salt and pepper. E. E. Harris. 1,715,754; June 4.
- Shaker conveyers, Air-operated feeder for. G. Reese. 1,711,966; May 7.
- Shaker, Grate. O. A. Garber. 1,705,247; Mar. 12.
- Shaker or similar article, Salt or peper. J. W. Jennings. Des. 77,773-5; Feb. 19.
- Shaker top, Cocktail-. W. F. Bruning. 1,719,688; July 2.
- Shaking and screening apparatus. M. O. Cederquist. 1,707,251; Apr. 2.
- Shank for shoes. C. T. Harkreader. 1,715,548; June 4.
- Shank iron for shoes. A. F. Donovan. 1,730,970; Oct. 8.
- Shank irons for shoes, Constructing. E. E. Like. 1,706,792; Mar. 26.
- Shank-lasting machine. M. E. Fernald. 1,723,342; Aug. 6.
- Shank stiffener. P. J. Wentworth. 1,715,050; May 28.
- Shank stiffeners, Forming. W. H. Nickerson. 1,735,781; Nov. 12.
- Shaper hood. G. T. Hurlburt. 1,739,484; Dec. 10.
- Shapers, Attachment for. W. L. Hall. 1,706,156; Mar. 19.
- Shaping fabric bands. R. P. Dinsmore. 1,701,472; Feb. 5.
- Shaping machine. C. Balzi and P. Juravcoff. 1,705,602; Mar. 19.
- Shaping machine. R. Bielski. 1,728,030; Sept. 10.
- Shaping machine. R. H. Jensen. 1,725,985; Aug. 27.
- Shaping sheet metal. O. J. Groehn and L. S. Lamb. 1,708,615; Apr. 9.
- Shaping the bottoms of shoes. H. A. Davenport. 1,704,822; Mar. 12.
- Sharpener, Band-saw. W. Grosskopf. 1,717,206; June 11.
- Sharpener, Blade. A. K. Hanson. 1,732,360; Oct. 22.
- Sharpener, Disk-barrow. F. F. Hill. 1,733,003; Dec. 3.
- Sharpener, Electric pencil. A. C. Durst. 1,740,395; Dec. 17.
- Sharpener for disk barrows. C. C. Huff. 1,731,533; Oct. 15.
- Sharpener for feed cutters. C. A. and M. Holm. 1,738,005; Dec. 3.
- Sharpener for razor blades and the like, Magnetic. G. Yates. 1,710,760; Apr. 30.
- Sharpener for slicing machines. A. C. Sensow. 1,727,488; Sept. 10.
- Sharpener, Knife. J. W. Teitel. 1,719,345; July 2.
- Sharpener, Knife. W. R. Whittemore. 1,732,705; Oct. 22.
- Sharpener, Lawn-mower. E. Eberhart. 1,715,696; June 4.
- Sharpener, Lawn-mower. J. H. Huffman. 1,707,396; Apr. 2.
- Sharpener, Pencil. C. F. Bierbach. 1,728,523; Sept. 17.
- Sharpener, Pencil. L. G. Brackett. 1,723,009; Aug. 6.
- Sharpener, Pencil. H. Cohen. 1,735,638; Nov. 12.
- Sharpener, Pencil. H. T. Gould. 1,717,152; June 11.
- Sharpener, Pencil. J. B. Gurney. 1,703,731; Feb. 26.
- Sharpener, Pencil. J. J. Miller. 1,719,714; July 2.
- Sharpener, Pencil. A. D. Ray. Des. 78,313; Apr. 16.
- Sharpener, Pencil. G. M. Smith. Des. 78,226; Apr. 9.
- Sharpener, Pencil. W. H. Winters. 1,730,185; Oct. 1.
- Sharpener, Pencil. R. E. Wright. 1,707,890; Apr. 2.
- Sharpener, Razor. G. C. Allison. 1,709,051; Apr. 16.
- Sharpener, Razor. J. Benze. 1,723,124; Aug. 6.
- Sharpener, Razor. A. Mataresse and E. Centenaro. 1,734,173; Nov. 5.
- Sharpener, Razor-blade. G. G. Floyd. 1,710,050; Apr. 23.
- Sharpener, Safety-razor-blade. T. H. Poulter. 1,730,163; Oct. 1.
- Sharpener, Saw. G. H. Wood. 1,719,351; July 2.
- Sharpening apparatus, Lawn-mower-. C. Knauf. 1,740,464; Dec. 24.
- Sharpening attachment for disk barrows. F. M. Case. 1,727,198; Sept. 3.
- Sharpening device for hair clippers. H. M. Bennett and S. J. Boman. 1,742,054; Dec. 31.
- Sharpening hollow or mortiser chisels. A. H. Hawkinson and E. W. Peterson. 1,725,515; Aug. 20.
- Sharpening machine, Pencil-. R. Marguerat. 1,732,728; Oct. 22.
- Sharpening machine, Saw-. H. Marshall. 1,732,132; Oct. 15.
- Sharpening pencils, Device for. E. Friedezky. 1,708,128; Apr. 9.
- Shaving appliance. J. W. Lysons. 1,726,305; Aug. 27.
- Shaving compact. E. S. Tipton. 1,708,745; Apr. 9.
- Shaving cream and making same. C. H. Caseau. 1,709,460; Apr. 16.
- Shaving cup and support. G. R. Thompson. 1,722,510; July 30.
- Shaving cup, Electric. G. Harvis. 1,696,953; Jan. 1.
- Shaving implement. J. Schick. 1,721,530; July 23.
- Shaving machine. L. W. Claybourn. 1,714,212-13; May 21.
- Shavings and scrap of light metal and alloys thereof, Treating. J. A. Gann. 1,739,717; Dec. 17.
- Shawl, Spanish. C. Cartotto. Des. 77,670; Feb. 12.
- Shear. J. C. Scoggins. 1,714,455; May 21.
- Shear, Sheep. E. S. Bartlett. 1,723,323; Aug. 6.
- Shear, Sheep. E. S. Bartlett. 1,727,330; Sept. 10.
- Shear, Sheep. M. W. McArdle. 1,704,201; Mar. 5.
- Shear, Sheep. M. W. McArdle. 1,723,364; Aug. 6.



- Shearing attachment, Metal-. F. F. Wright. 1,733,929; Oct. 29.
- Shearing device. S. T. Moreland. 1,707,408; Apr. 2.
- Shearing machine, Fur-. J. Zabel. 1,732,323; Oct. 22.
- Shearing-machine hand pieces, Comb plate for sheep-. W. G. Maw. 1,724,951; Aug. 20.
- Shearing machine, Outside-flash-. H. Tormyn. 1,717,634; June 18.
- Shearing machines, Holddown mechanism for. F. E. Munschauer. 1,722,819; July 30.
- Shearing or clipping machine. J. Hansen. 1,714,778; May 28.
- Shears. *See*—
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| Automatic shears.   | Scrap shears. |
| Finger-nail shears. | Sheep shears. |
| Metal shears.       | Tube shears.  |
| Pruning shears.     |               |
- Shears. F. S. Forney and J. Brzezinski. 1,727,760; Sept. 10.
- Shears. H. W. Latimer. 1,710,456; Apr. 23.
- Shears. P. J. Moore. 1,713,393; May 14.
- Shears. W. V. Robertson. 1,710,950; Apr. 30.
- Shears. E. J. Tjernlund. 1,720,305; July 9.
- Shears. R. B. Zuber. 1,712,723; May 14.
- Sheath connection in electric-cable systems. W. B. Kirke and H. R. Searing. Re17,235; Mar. 12.
- Sheathing, Apparatus for making reinforced. W. J. Crowell, jr. 1,728,927; Sept. 24.
- Sheathing, Apparatus for manufacturing reinforced. B. E. Crowell. 1,728,928; Sept. 24.
- Sheathing structural members with concrete, Method and apparatus for. A. W. Forster. 1,715,497; June 4.
- Sheave. A. J. Morgan. 1,731,587; Oct. 15.
- Sheave block. S. H. H. Parsons. 1,737,268; Nov. 26.
- Sheave, Block and fall. E. J. Rathbun. 1,700,074; Jan. 22.
- Sheave block and head. V. Monroe. 1,739,368; Dec. 10.
- Sheave block, Safety. W. H. McKissick. Des. 17,211; Feb. 12.
- Sheave block, Safety. W. H. McKissick. 1,707,560; Apr. 2.
- Sheave construction for lever-arm buckets. W. M. Venable. 1,709,418; Apr. 16.
- Sheave structure. A. E. Hall. 1,740,087; Dec. 17.
- Shed and apparatus for use therewith, Milking. A. J. Hosier. 1,719,370; July 2.
- Sheep-dosing device. J. W. Ireland. 1,699,590; Jan. 22.
- Sheet and envelope, Combined. H. S. Pedersen. 1,729,400; Sept. 24.
- Sheet and envelope, Letter. J. Kakaley. 1,706,300; Mar. 19.
- Sheet and making same, Waterproof. L. Kirschbraun. 1,738,509; Dec. 3.
- Sheet and making the same, Resilient flexible. W. A. Boughton. 1,722,968; July 30.
- Sheet articles, Manufacturing. C. A. Flood. 1,698,433; Jan. 8.
- Sheet, Bed. C. Andrade, jr. 1,701,058; Feb. 5.
- Sheet-delivery mechanism. R. C. Seymour. 1,700,776; Feb. 5.
- Sheet detector. H. C. Niblack. 1,701,861; Feb. 12.
- Sheet-drawing apparatus. C. W. Swope. 1,701,165; Feb. 5.
- Sheet feeder. P. E. Kleinberg. 1,709,857; Apr. 23.
- Sheet feeder. G. R. Swart. 1,721,608; July 23.
- Sheet feeding and gumming mechanism. G. W. Jones and J. MacInnes. 1,715,760; June 4.
- Sheet-feeding apparatus. A. Broadmeyer. Re17,519; Dec. 10.
- Sheet-feeding device with sheet separation by a blast of air. W. Rockstroh. 1,718,581; June 25.
- Sheet-feeding machine. H. Jungk. 1,709,353; Apr. 16.
- Sheet-feeding mechanism. G. Borgeson. 1,712,546; May 14.
- Sheet-feeding mechanism. A. Broadmeyer. 1,709,005; Apr. 16.
- Sheet-feeding mechanism. A. Broadmeyer. 1,716,948; June 11.
- Sheet-feeding mechanism. A. Broadmeyer. 1,719,044; July 2.
- Sheet-feeding mechanism. A. Broadmeyer. 1,736,483; Nov. 19.
- Sheet-feeding mechanism. C. F. Frauenberger. 1,717,503; June 18.
- Sheet-feeding mechanism. W. M. Kelly. 1,717,454; June 18.
- Sheet-feeding mechanism. G. Spiess. 1,714,527; May 28.
- Sheet-feeding mechanism. L. R. Tutts. 1,720,019; July 9.
- Sheet-feeding mechanism and duplicating and other machines comprising the same. J. Clatworthy. 1,698,187; Jan. 8.
- Sheet-folding apparatus. A. A. McCormack. 1,709,361; Apr. 16.
- Sheet-glass cooler. J. W. Wildermuth. 1,707,242; Apr. 2.
- Sheet glass, Rolled. C. Jungers. 1,718,824; June 25.
- Sheet-glass-surfacing apparatus. J. L. Drake. 1,714,301; May 21.
- Sheet-glass-surfacing apparatus. J. C. Gipe. 1,714,307; May 21.
- Sheet-group suspension device. S. Smiley, jr. 1,707,326; Apr. 2.
- Sheet-handling apparatus. S. E. Diescher. 1,708,411; Apr. 9.
- Sheet-handling device. J. S. Greene. 1,700,300; Jan. 29.
- Sheet-handling device. J. S. Greene. 1,709,788; Apr. 16.
- Sheet-handling machine. W. M. Kelly. 1,700,681; Jan. 29.
- Sheet holder for photographic copying machines, Sensitized. A. R. Jones. 1,718,739; June 25.
- Sheet inserter. A. G. Lotter. 1,704,862; Mar. 12.
- Sheet insulation. W. C. Furnas and E. C. Busch. 1,730,568; Oct. 8.
- Sheet-lifting device working with suckers. G. Spiess. 1,705,506; Mar. 19.
- Sheet material, Apparatus for even piling. R. P. Cummings. 1,715,993; June 4.
- Sheet material, Composite. F. C. Whippey. 1,716,402; June 11.
- Sheet-material-feed control. C. H. Hartman. 1,718,146; June 18.
- Sheet-material feeding and severing apparatus. C. H. Hartman. 1,718,145; June 18.
- Sheet material for construction purposes. J. T. Auger. 1,714,204; May 21.
- Sheet material, Method and apparatus for manipulating. V. H. Bodie. 1,704,528; Mar. 5.
- Sheet material, Method of and apparatus for assembling units of. T. J. Meil. 1,734,336; Nov. 5.
- Sheet, Maternity. L. L. Gilbert. 1,741,837; Dec. 31.
- Sheet metal, Expanded. L. Tirifaby. 1,714,058; May 21.
- Sheet-metal follower. M. Kamenstein. 1,700,317; Jan. 29.
- Sheet metal, Joining or affixing perforated or expanded. F. Humphris. 1,721,396; July 16.
- Sheet-metal lock. A. F. W. Viehweger. 1,709,101; Apr. 16.
- Sheet-metal piling. F. Rauwald. 1,716,087; June 4.
- Sheet-metal presses, Blank-holding means for. J. Nelson. 1,714,815; May 21.
- Sheet-metal rack. W. N. Vance. 1,740,754; Dec. 24.
- Sheet-metal structure. H. A. Mugler. 1,708,394; Apr. 9.
- Sheet mill. J. B. Tytus. 1,729,693; Oct. 1.
- Sheet of folded material. J. O. Hunt. 1,706,166; Mar. 19.
- Sheet of folded material. G. V. Rasmussen. 1,698,823; Jan. 15.
- Sheet-opening method. C. A. Frabm. 1,711,997; May 7.
- Sheet-powdering machine. S. Lipsius. 1,710,059; Apr. 23.
- Sheet-registering device. C. F. Root. 1,738,799; Dec. 10.
- Sheet retarding and piling mechanism. A. Broadmeyer. 1,736,482; Nov. 19.
- Sheet separator. C. W. Harrold. 1,715,358; June 4.
- Sheet separator. C. W. Harrold. 1,715,360; June 4.
- Sheet separator. C. L. Post. 1,703,690; Feb. 26.
- Sheet shifter. M. Griffin and H. Auburn. 1,739,547; Dec. 17.
- Sheet stacker. G. W. Lentz. 1,739,319; Dec. 10.
- Sheet-stacking machine. G. W. Lentz. 1,727,209; Sept. 3.
- Sheet-surfacing materials, Apparatus for manufacture of. A. C. Fischer. 1,730,065; Oct. 1.
- Sheet-surfacing materials, Fabrication of ornamented. M. Elias. 1,738,696; Dec. 10.
- Sheets, boards, and other materials, Manufacture of. J. A. Stevens. 1,714,251; May 21.
- Sheets from piles, Removing. E. H. Jähne. 1,724,657; Aug. 13.
- Sheets of impression material, Method of and apparatus for making. G. von Webern. 1,700,962; Feb. 5.
- Sheets on platens, Device for registering. C. F. Root. 1,712,585; May 14.
- Sheets or labels, Apparatus for handling. P. W. Fleischer and C. Lambelet. 1,724,077; Aug. 13.
- Sheets, Rolling. J. B. Tytus. 1,704,640; Mar. 5.
- Sheets to mattresses, Attaching. N. B. Dinstuhl. 1,742,064; Dec. 31.
- Shelf. E. S. Guignon, jr. 1,727,032; Sept. 3.
- Shelf and clothes rack, Combination. M. M. Olander. 1,711,554; May 7.
- Shelf and guard therefor, Display. M. M. Friedemann. 1,718,738; June 25.
- Shelf and lighting fixture, Combined. C. W. Green. Des. 79,072; July 30.
- Shelf attachment for stoves. T. A. Soultis. 1,706,466; Mar. 26.
- Shelf bracket, Porcelain. C. H. Chamberlain and C. Tschudin. 1,723,408; Aug. 6.
- Shelf, Folding. M. H. Cady. 1,727,048; Sept. 3.
- Shelf for house radiators. G. Sayers. 1,739,263; Dec. 10.
- Shelf, Frame. R. E. Miller. 1,713,295; May 14.
- Shelf, Hanging. J. W. Brown. Des. 77,667; Feb. 12.
- Shelf, Price-tag-supporting. L. E. Larche. 1,733,376; Dec. 3.
- Shelf structure, Sliding. J. E. Gloekler. 1,711,143; Apr. 30.
- Shelf, Table. J. J. Balk. Des. 78,325; Apr. 23.
- Shelf, Table. A. E. Ellinger. Des. 78,618; May 28.
- Shell and the like. A. J. Grimwood. 1,709,721; Apr. 16.
- Shell, Small-arm explosive. M. C. Loomis. 1,705,870; Mar. 19.
- Shellac and the like, Substitute for. M. T. Harvey. 1,725,793; Aug. 27.
- Sheller. *See*—
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| Pea sheller. | Nut sheller. |
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- Shelter, Portable. S. Klyach. 1,713,439; May 14.
- Shelter, Thatched stock. O. H. Heine. 1,740,510; Dec. 24.
- Shelving apparatus, Adjustable inclined. E. G. Short. 1,711,329; Apr. 30.
- Shelving construction. J. J. Sprott. 1,700,549; Jan. 29.
- Shelving, Metal. S. Goldberg. 1,741,293; Dec. 31.
- Shelving, Metal. W. N. Vance. 1,717,635; June 18.
- Shield. M. Donovan. 1,730,999; Oct. 8.
- Shield. C. E. Randall. 1,710,667; Apr. 23.



- Shield and attachment for eyeglasses, Glare. W. C. Esleck. 1,723,475; Aug. 6.
- Shield and headframe therefor, Glare. W. C. Esleck. 1,723,474; Aug. 6.
- Shield, Combination. M. Furst. 1,730,762; Oct. 8.
- Shield, Dress. F. Gardner. 1,723,776; Aug. 6.
- Shield, Dress. M. Hoffmann. 1,727,287; Sept. 3.
- Shield, Dress. K. H. Wilson. 1,720,584; July 9.
- Shield, End. A. P. Wood. 1,728,817; Sept. 17.
- Shield, Expansion. R. E. Ogden. 1,730,588; Oct. 8.
- Shield, Expansion. C. C. Tomkinson. 1,698,570; Jan. 8.
- Shield, Expansion. C. C. Tomkinson. 1,702,920; Feb. 19.
- Shield, Face. E. Shepard. 1,701,015; Feb. 5.
- Shield for automobile hoods. E. L. Shelley. 1,713,560; May 21.
- Shield for automobiles. W. H. Seidel, jr. 1,722,864; July 30.
- Shield for automobiles, Weather. W. F. Shallenberger. 1,704,994; Mar. 12.
- Shield for automobile windshields, Safety. E. E. Hall. 1,733,371; Oct. 29.
- Shield for cookstoves. J. F. Struble. 1,735,806; Nov. 12.
- Shield for electric welding, Glare. R. B. Weeks. 1,716,096; June 4.
- Shield for eyeglasses, Glare. G. J. Riderich. 1,740,835; Dec. 24.
- Shield for headgear, Detachable antiglare. A. C. Castriotis. 1,725,340; Aug. 20.
- Shield for headlights. A. M. Greco. 1,725,632; Aug. 20.
- Shield for hot-air registers, Protective. R. F. Behringer. 1,703,567; Feb. 26.
- Shield for motor vehicles, Sun. H. R. Crane. 1,732,447; Oct. 22.
- Shield for mowing machines, Crank-wheel. L. A. Paradise. 1,727,017; Sept. 3.
- Shield for rear-view mirrors, Glare. W. E. Hummel. 1,728,123; Sept. 10.
- Shield for shoes. W. P. Duling. 1,725,447; Aug. 20.
- Shield for the protection of men's trousers, Athletic knee. E. A. Cooper. 1,730,493; Oct. 8.
- Shield for walls of studios and the like, Sound-absorbent. P. A. Robbins. 1,730,529; Oct. 8.
- Shield, Glare. W. R. Jackson. 1,710,645; Apr. 23.
- Shield, Magnetic. M. H. Bennett. 1,709,054; Apr. 16.
- Shield, Motorist's eye. F. W. Magee. 1,706,931; Mar. 26.
- Shield, Nonglare. N. L. Furjanick. 1,729,936; Oct. 1.
- Shield, Piston oil. H. A. Flagge. 1,734,460; Nov. 5.
- Shield plate for lighting-fixture brackets or article of analogous nature. G. E. Villaret. Des. 78,678; May 28.
- Shield, Vision-protecting. O. H. Rebenschied and C. G. Mee. 1,701,958; Feb. 12.
- Shielded tube. H. L. Strongson. 1,731,797; Oct. 15.
- Shiftable screen. N. S. Fox. 1,722,663; July 30.
- Shift-control mechanism for full-fashioned-knitting machines, Cam-shaft. M. Richter. 1,705,500; Mar. 19.
- Shifting device. J. Blackburn. 1,709,557; Apr. 16.
- Shifting means for matrix magazines. S. E. Sperry. 1,731,154; Oct. 8.
- Shifting the platen or the like in typewriters. E. H. Kaemmel. 1,708,066; Apr. 9.
- Shim. B. Darrach, jr. 1,736,998; Nov. 26.
- Shin for potato sacks, Closure. R. C. Zuckerman. 1,730,260; Oct. 1.
- Shingle. C. F. Ames, jr., and C. W. Mortimer. 1,730,347; Oct. 8.
- Shingle. C. Batcheller. 1,740,217; Dec. 17.
- Shingle. M. Halprin. 1,741,515; Dec. 31.
- Shingle. N. P. Harshberger. 1,718,933; June 25.
- Shingle. N. P. Harshberger. 1,729,830; Oct. 1.
- Shingle. R. A. Holdsworth. 1,719,111; July 2.
- Shingle. C. J. Melby. Des. 77,786; Feb. 19.
- Shingle. J. M. Minnee. 1,714,800; May 28.
- Shingle. F. W. Preston. 1,703,170; Feb. 26.
- Shingle. H. A. Teeple. 1,740,883; Dec. 24.
- Shingle. F. E. Theilacker. 1,725,551; Aug. 20.
- Shingle. F. E. Theilacker. 1,729,846; Oct. 1.
- Shingle. W. W. Weaver. 1,697,519; Jan. 1.
- Shingle. J. P. Wolf. 1,721,242; July 16.
- Shingle and making same, Prepared. L. Kirschbraun. 1,701,926; Feb. 12.
- Shingle and the like, Metal. T. E. Murray, jr. 1,700,138; Jan. 29.
- Shingle-bundling machine. C. Padilla. 1,716,080; June 4.
- Shingle, Composition. N. P. Harshberger. 1,717,603; June 18.
- Shingle, Composition. F. E. Theilacker. 1,710,954; Apr. 30.
- Shingle construction. A. Coburn. 1,709,776; Apr. 16.
- Shingle-finishing machine. R. A. Clark. 1,731,452; Oct. 15.
- Shingle gage. W. H. Ailor. 1,701,904; Feb. 12.
- Shingle lock. F. E. Lietz. 1,703,156; Feb. 26.
- Shingle material and manufacture. A. L. Clapp. 1,698,298; Jan. 8.
- Shingle-packing frame. V. H. Ross. 1,710,897; Apr. 30.
- Shingle roof and clip. G. G. Guertin. 1,730,653; Oct. 8.
- Shingle, Roofing. R. B. Adams. 1,731,187; Oct. 8.
- Shingle, Roofing. W. A. Harris. 1,732,229; Oct. 22.
- Shingle, Roofing. L. Kirschbraun and O. A. Heppes. 1,722,702; July 30.
- Shingle. Self-aligning strip. W. A. Harris. 1,741,566; Dec. 31.
- Shingle slab, Oblique. A. C. Fischer. 1,729,212; Sept. 24.
- Shingle spacer for roofs. W. L. Shirley. 1,709,376; Apr. 16.
- Shingle, Stormproof asphalt ridge. V. T. Stinson. 1,701,704; Feb. 12.
- Shingle, Strip. D. Finley. 1,724,269; Aug. 13.
- Shingle, Strip. W. A. Harris. 1,732,403; Oct. 22.
- Shingle strip. R. P. Perry. Rel17,187; Jan. 8.
- Ship building. H. K. Kloess. 1,736,315; Nov. 19.
- Ship-guiding method and apparatus. C. D. Ehret. 1,711,879; May 7.
- Ship hull. E. R. F. Maier. 1,729,446; Sept. 24.
- Ship, Nonsinkable. L. Nagy. 1,705,303; Mar. 12.
- Ship or similar vessel, Spiral rotary. J. C. Bechard. 1,708,648; Apr. 9.
- Ship propulsion. A. A. Pollock. 1,717,255-6; June 11.
- Ship propulsion, Electric. E. F. W. Alexanderson. 1,701,350; Feb. 5.
- Ship propulsion, Electric. H. M. Hobart. 1,701,368; Feb. 5.
- Ship propulsion, Electric. C. Macmillan. 1,701,382; Feb. 5.
- Ship-propulsion system. E. F. W. Alexanderson. 1,723,906; Aug. 6.
- Ship-propulsion system, Electric. D. E. Jewitt. 1,701,373; Feb. 5.
- Ship propulsion, System of. C. Macmillan. 1,713,188; May 14.
- Ship stabilizer. H. Kapigian. 1,710,625; Apr. 23.
- Ship stabilizer. C. L. Norden. 1,703,679; Apr. 9.
- Ship stabilizing and rolling apparatus. S. G. Myers. 1,730,941; Oct. 8.
- Ship steering and propulsion mechanism. J. T. Edmonds. 1,720,826; July 16.
- Shipper, Iceless. R. W. Scarlett. 1,714,633; May 28.
- Shipping and display case for brick samples, Combined. W. C. Koch. 1,720,959; July 16.
- Shipping and storing case. C. E. Weaver. 1,734,314; Nov. 5.
- Shipping apparatus, Vehicle. W. W. Blakely. 1,724,556; Aug. 13.
- Shipping automobiles, Device for. C. B. Moore and J. H. Sybert. 1,708,231; Apr. 9.
- Shipping block for automobile tires and rims. F. L. Seeley. 1,739,423; Dec. 10.
- Shipping box. A. R. Hoeft. 1,727,880; Sept. 10.
- Shipping box. A. R. Hoeft. 1,729,942; Oct. 1.
- Shipping box, Fruit. J. G. Anderson. 1,699,130; Jan. 15.
- Shipping box, Reinforced and ventilated. K. I. Miller. 1,706,804; Mar. 26.
- Shipping cage for bees. A. B. Pinard. 1,727,078; Sept. 8.
- Shipping case. H. R. Bliss. 1,708,291; Apr. 9.
- Shipping case. H. R. Bliss. 1,739,778; Dec. 17.
- Shipping case. P. F. Boeye. 1,697,969; Jan. 8.
- Shipping case. G. R. Grigg. 1,730,816; Oct. 8.
- Shipping case, Fiber-board. H. B. Walter. 1,713,682; May 21.
- Shipping case, Fiber-board. H. B. Walter. 1,741,214; Dec. 31.
- Shipping case, Ice-cream-can. G. F. Lessenhop. 1,732,098; Oct. 15.
- Shipping case, Ice-cream-can. G. F. J. H., C. W., and P. W. Lessenhop. 1,732,099; Oct. 15.
- Shipping case, Reinforced. H. R. Bliss. 1,697,709; Jan. 1.
- Shipping container and pump-securing means. J. E. Fitzgerald. 1,717,150; June 11.
- Shipping deck, Automobile. R. L. Sousa. 1,697,790; Jan. 1.
- Shipping device. C. L. Snyder. 1,705,381; Mar. 12.
- Shipping device, Automobile. L. H. Blackmore and M. W. McConkey. 1,697,807; Jan. 1.
- Shipping device, Vehicle. A. G. Girard. 1,708,613; Apr. 9.
- Shipping drum, Metal. H. E. McCrery. 1,713,612; May 21.
- Shipping packages and the like. L. F. Hintz. 1,705,058; Mar. 12.
- Shipping rack, Permanent. L. A. Sherman. 1,732,385; Oct. 22.
- Shipping slip, Combination. R. A. Breunier, G. Sberill, and A. D. Donnell. 1,718,214; June 25.
- Ship's boat chock or support. D. Roberts. 1,714,437; May 21.
- Ship's hull. H. K. Kloess. 1,729,544; Sept. 24.
- Ships, Preventing the sinking of. A. Drekolias. 1,701,998; Feb. 12.
- Ship's propeller. F. Wiswedel. 1,739,884; Dec. 17.
- Ships, Propelling. A. Carozzi. 1,703,722; Feb. 26.
- Ship's stern frame. W. Wingate. 1,706,093; Mar. 19.
- Shirt. H. L. Burr. 1,714,491; May 28.
- Shirt. J. W. Champion. 1,737,875; Dec. 3.
- Shirt. E. O. Hirsch. 1,729,110; Sept. 24.
- Shirt. H. Miller. 1,721,403; July 16.
- Shirt. M. M. Moore. 1,732,062; Oct. 15.
- Shirt. G. E. Schoman. 1,737,617; Dec. 3.
- Shirt and garment protector, Miner's. A. E. Miller. 1,725,718; Aug. 20.
- Shirt and vest, Combined full-dress. N. Foster and L. Troskin. 1,718,128; June 18.
- Shirt, Athletic. D. Levinson. 1,707,441; Apr. 2.
- Shirt band and soft-shirt-collar protector, Combination. E. G. Willard. 1,724,334; Aug. 13.
- Shirt front, Changeable. J. Feigleson. 1,733,954; Oct. 29.
- Shirts, Making. W. H. Caunitz. 1,719,099; July 2.
- Shock absorber. H. P. Arnt. 1,715,113; May 28.
- Shock absorber. W. Barber. 1,722,782; July 30.
- Shock absorber. A. L. Boegehold. 1,737,354; Nov. 26.
- Shock absorber. W. A. Chryst. 1,710,861; Apr. 30.



- Shock absorber. E. Doddridge. 1,734,158; Nov. 5.  
 Shock absorber. F. F. Dorsey. 1,729,285; Sept. 24.  
 Shock absorber. C. Dozier. 1,710,451; Apr. 23.  
 Shock absorber. E. Flentje. 1,739,182; Dec. 10.  
 Shock absorber. G. H. Haines. 1,727,121; Sept. 3.  
 Shock absorber. J. M. Hall. 1,733,223; Oct. 29.  
 Shock absorber. J. G. Hawley. 1,739,304; Dec. 10.  
 Shock absorber. E. S. Kant. 1,734,857; Nov. 5.  
 Shock absorber. F. Kirk and J. C. Matiesch. 1,703,397; Feb. 26.  
 Shock absorber. J. E. Lewis. 1,731,386; Oct. 15.  
 Shock absorber. R. M. Lovejoy. 1,698,640; Jan. 8.  
 Shock absorber. R. M. MacDonald. 1,726,272; Aug. 27.  
 Shock absorber. A. W. F. Manzel. 1,711,173; Apr. 30.  
 Shock absorber. A. W. F. Manzel. 1,740,429; Dec. 17.  
 Shock absorber. G. C. Martin. 1,709,359; Apr. 16.  
 Shock absorber. J. A. McCaskell. 1,716,497; June 11.  
 Shock absorber. C. N. Mitchell. 1,699,707; Jan. 22.  
 Shock absorber. P. S. Morgan. 1,704,258; Mar. 5.  
 Shock absorber. J. F. O'Connor. 1,698,729; Jan. 15.  
 Shock absorber. J. H. Redhead. 1,679,610; Jan. 1.  
 Shock absorber. G. P. G. Ribis. 1,706,745; Mar. 26.  
 Shock absorber. L. Rouanet. 1,720,094; July 9.  
 Shock absorber. L. Saiv. 1,724,423; Aug. 13.  
 Shock absorber. A. B. Shultz. 1,697,577; Jan. 1.  
 Shock absorber. J. R. Snyder. 1,717,526; June 18.  
 Shock absorber. J. R. Snyder. 1,734,695; Nov. 5.  
 Shock absorber. A. C. Thomann. 1,714,646; May 28.  
 Shock absorber. E. R. Wolf. Re17,184; Jan. 1.  
 Shock absorber, Airplane. F. R. Weymouth. 1,723,963; Aug. 6.  
 Shock absorber and air compressor, Combination. J. W. Luoma. 1,718,700; June 25.  
 Shock absorber and bumper for the tongues and doubletree equalizers of cultivators. H. A. Stephens. 1,737,064; Nov. 26.  
 Shock absorber and jack, Combined. W. Fisch. 1,701,232; Feb. 5.  
 Shock absorber and spring control for vehicles. R. P. Lansing. 1,697,393; Jan. 1.  
 Shock absorber and spring lubricator, Combined. W. H. Spayd. 1,728,085; Sept. 10.  
 Shock absorber, Automobile. C. F. Summy. 1,706,195; Mar. 19.  
 Shock absorber, especially for motor vehicles. K. Schleiff. 1,717,855; June 18.  
 Shock absorber, Fluid-operating. E. Caretta. 1,729,565; Sept. 24.  
 Shock absorber for automobiles. J. F. O'Connor. 1,707,490; Apr. 2.  
 Shock absorber for doorknobs. J. A. Haslinger. 1,710,619; Apr. 23.  
 Shock absorber for lighting units. A. J. Thompson. 1,709,444; Apr. 16.  
 Shock absorber for motor vehicles. G. R. Pennington. Re17,409; Aug. 20.  
 Shock absorber for suspending vehicles, Friction. R. Masquelier. 1,717,112; June 11.  
 Shock absorber for use in vehicle suspension. E. A. Hellstrand. 1,740,734; Dec. 24.  
 Shock absorber for vehicle couplings. R. Rafflenbeul. 1,731,149; Oct. 8.  
 Shock absorber for vehicles. J. Campbell. 1,725,055; Aug. 20.  
 Shock absorber for vehicles. H. D. Church. 1,697,413; Jan. 1.  
 Shock absorber for vehicles. R. P. Lansing. 1,697,247; Jan. 1.  
 Shock absorber for vehicles. R. P. Lansing. 1,697,392; Jan. 1.  
 Shock absorber for vehicles. R. P. Lansing. 1,699,742; Jan. 22.  
 Shock absorber for vehicles. J. F. O'Connor. 1,729,627; Oct. 1.  
 Shock absorber for vehicles. J. F. O'Connor. 1,737,613; Dec. 3.  
 Shock absorber, Friction. J. T. d'Albay. 1,703,264; Feb. 26.  
 Shock absorber, Hydraulic. H. P. Arnt. 1,708,560; Apr. 9.  
 Shock absorber, Hydraulic. H. P. Arnt. 1,711,166; Apr. 30.  
 Shock absorber, Hydraulic. F. P. Becker. 1,704,527; Mar. 5.  
 Shock absorber, Hydraulic. A. F. Blanchard. 1,733,395; Oct. 29.  
 Shock absorber, Hydraulic. D. F. Brady. 1,707,111; Mar. 26.  
 Shock absorber, Hydraulic. C. Steinem. 1,701,828; Feb. 12.  
 Shock absorber or stabilizer for motor-driven vehicles. W. S. Campbell. 1,727,746; Sept. 10.  
 Shock absorber, Pneumatic. E. Van der Pyl. 1,711,207; Apr. 30.  
 Shock-absorber socket. H. H. Frost. 1,725,184; Aug. 20.  
 Shock-absorber wheel. S. F. de Castro e Izuaga. 1,707,256; Apr. 2.  
 Shock-absorbing apparatus for drilling machines using wire cable. F. F. Davis. 1,724,913; Aug. 20.  
 Shock-absorbing device. C. M. Kearns. 1,699,435; Jan. 15.  
 Shock-absorbing device. W. R. McGowen. 1,741,162; Dec. 31.  
 Shock-absorbing device for motor road vehicles. F. Smith. 1,716,468; June 11.  
 Shock-absorbing device for valves. C. J. McLeod. 1,731,344; Oct. 15.  
 Shock-absorbing device for vehicles. J. F. O'Connor. 1,742,003; Dec. 31.  
 Shock-absorbing mechanism. J. F. O'Connor. 1,700,236; Jan. 29.  
 Shock-absorbing mechanism. J. F. O'Connor. 1,741,651; Dec. 31.  
 Shock-absorbing mechanism and process of fitting parts, Friction. W. A. Geiger. 1,730,500; Oct. 8.  
 Shock-absorbing mechanism for automobiles. J. F. O'Connor. 1,710,186; Apr. 23.  
 Shock-absorbing mechanism for automobiles. J. F. O'Connor. 1,713,914-15; May 21.  
 Shock-absorbing mechanism for truck bolsters. E. H. Schmidt. 1,702,366; Feb. 19.  
 Shock-absorbing mechanism for vehicles. J. F. O'Connor. 1,707,765; Apr. 2.  
 Shock absorbing mechanism, Friction. W. A. Geiger. 1,713,960; May 21.  
 Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,700,260; Jan. 29.  
 Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,703,271; Feb. 26.  
 Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,720,124; July 9.  
 Shock-absorbing mechanism, Friction. G. A. Johnson. 1,730,214; Oct. 1.  
 Shock-absorbing mechanism, Friction. H. J. Lounsbury. 1,700,229; Jan. 29.  
 Shock-absorbing mechanism, Friction. H. J. Lounsbury. 1,703,277; Feb. 26.  
 Shock-absorbing mechanism, Friction. W. H. Miner. 1,698,727; Jan. 15.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,706,463-4; Mar. 26.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,716,656; June 11.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,716,865; June 11.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,730,864; Oct. 8.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,738,723; Dec. 10.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,741,648-50; Dec. 31.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,742,004; Dec. 31.  
 Shock control, Automobile. H. W. Sanford. 1,703,323; Feb. 26.  
 Shock-cushioning drive. G. F. Eckart. 1,715,124; May 28.  
 Shock resistor and absorber, Combined. G. H. Hayes. 1,730,273; Oct. 1.  
 Shock sweep. G. Innes. 1,707,199; Mar. 26.  
 Shocker absorber. L. Bécherat. 1,713,515; May 21.  
 Shocker, Sheaf. F. W. Varley. 1,701,706; Feb. 12.  
 Shocking device, Grain-. A. A. Lapie. 1,704,090; Mar. 5.  
 Shocking machine. I. L., C. N., and R. W. Dawson. 1,699,584; Jan. 22.  
 Shocking machine. A. L. Gruggen. 1,713,381; May 14.  
 Shocking machine. G. T. and R. P. Jones. 1,701,042; Feb. 5.  
 Shocking machine, Grain-. C. F. Kilgore. 1,703,309; Feb. 26.  
 Shockless drive. G. F. Eckart. 1,712,138; May 7.  
 Shoe. R. Anderson. 1,737,748; Dec. 3.  
 Shoe. J. R. Ayers. 1,712,481; May 14.  
 Shoe. J. Bertram. 1,731,810; Oct. 15.  
 Shoe. A. E. Block. 1,739,538 9; Dec. 17.  
 Shoe. B. H. Cort. 1,697,589; Jan. 1.  
 Shoe. C. L. Daly. Re17,191; Jan. 15.  
 Shoe. R. L. Diveley and F. D. Dickson. 1,720,120; July 9.  
 Shoe. G. A. Jones. 1,741,419; Dec. 31.  
 Shoe. W. B. Kingman. 1,709,672; Apr. 16.  
 Shoe. H. B. Lapidus. 1,717,512; June 18.  
 Shoe. E. Lattemann. 1,729,393; Sept. 24.  
 Shoe. R. Linar. 1,721,912; July 23.  
 Shoe. E. F. Mathews. Des. 80,039; Dec. 3.  
 Shoe. C. Morali. Des. 78,402-3; Apr. 30.  
 Shoe. C. Morali. Des. 79,399-400; Sept. 10.  
 Shoe. F. Parlante. 1,709,735; Apr. 9.  
 Shoe. F. Parlante. 1,723,883; Aug. 6.  
 Shoe. H. M. Pickering. 1,697,019; Jan. 1.  
 Shoe. L. Pignatelli. 1,737,679; Dec. 3.  
 Shoe. A. Ruggiero. 1,728,366; Sept. 17.  
 Shoe. J. F. Ruhland. 1,725,767; Aug. 27.  
 Shoe. R. A. Selby. Des. 78,488-9; May 7.  
 Shoe. R. A. Selby. Des. 78,841; June 25.  
 Shoe. R. A. Selby. Des. 79,444; Sept. 17.  
 Shoe. B. J. Silver. 1,724,975; Aug. 20.  
 Shoe. I. Simon. 1,738,929; Dec. 10.  
 Shoe. K. A. Sritter. 1,713,307; May 14.  
 Shoe. J. F. Teehan. 1,731,731; Oct. 15.  
 Shoe and boot, Orthopedic. E. Larius. 1,707,166; Mar. 26.  
 Shoe and cushioning member or middle sole therefor. E. H. Hess. 1,733,733; Oct. 29.  
 Shoe and fixing shank stiffeners thereto, Turn. R. B. Bartels. 1,739,279; Dec. 10.  
 Shoe and insole therefor. J. T. McIsaac. 1,698,599; Jan. 8.  
 Shoe and making and ornamenting the same. E. Brenner. 1,717,183; June 11.  
 Shoe and making shoes. W. C. Bennett and A. B. Miller. 1,722,967; July 30.  
 Shoe and making the same. A. F. Bancroft. 1,722,029; July 23.



- Shoe and making the same. C. H. Daniels. 1,698,473; Jan. 8.
- Shoe and making the same. L. E. Topham. 1,732,318; Oct. 22.
- Shoe and making the same. F. Wray. 1,702,100; Feb. 12.
- Shoe and making the same, Rubber-soled. F. Wray. 1,735,986; Nov. 19.
- Shoe and Manufacturing same. H. B. Gorman. 1,702,382; Feb. 19.
- Shoe and metatarsal-arch support therefor. W. M. Hurley. 1,709,852; Apr. 23.
- Shoe and method of manufacture, Vulcanized. C. H. Morrill and S. F. Cushman. 1,699,669; Jan. 22.
- Shoe and stocking, Combination. J. D. Peachey. 1,736,013; Nov. 19.
- Shoe and two-unit welting, Welt. H. Lyon. 1,708,629; Apr. 9.
- Shoe and welting therefor, Welt. L. H. Gilson. 1,735,457; Nov. 12.
- Shoe, Apparel. J. W. Lake. 1,715,090; May 23.
- Shoe-arch-shaping device. C. Saladino and J. Ciranko. 1,697,662; Jan. 1.
- Shoe, Arch-supporting. A. S. Curtis. 1,704,657; Mar. 5.
- Shoe, Arch-supporting. J. Jones. 1,722,049; July 23.
- Shoe, Athletic. F. P. Lundy. 1,699,472; Jan. 15.
- Shoe, Athletic. J. T. Riddell. 1,724,365; Aug. 13.
- Shoe attachment. A. G. Bugler. 1,723,918; Aug. 6.
- Shoe attachment. R. Sato. 1,701,424; Feb. 5.
- Shoe, Attachment for. D. Calo. 1,733,860; Oct. 29.
- Shoe, Baby. L. J. Golden. 1,733,991; Oct. 29.
- Shoe-bottom filler. A. Thoma. 1,698,806; Jan. 15.
- Shoe-bottom filler. A. Thoma. 1,704,547; Mar. 5.
- Shoe-bottom filler piece. A. H. Avery. 1,716,364; June 11.
- Shoe-bottom-filling machine. A. Thoma. 1,730,175; Oct. 1.
- Shoe, Casing. D. D. Burch. Re17,217; Feb. 19.
- Shoe-cementing press. O. Peterson. 1,727,519; Sept. 10.
- Shoe, Comfort. D. Skagen. 1,719,454; July 2.
- Shoe construction. M. F. McNiff. 1,727,244; Sept. 3.
- Shoe counter. R. Davis and W. Heim. 1,714,001; May 21.
- Shoe counter. A. C. Engel. 1,700,885; Feb. 5.
- Shoe, cushion-arch-protector. G. J. Winter. 1,709,049; Apr. 16.
- Shoe, Cushion-heel. E. F. Hurley. 1,718,906; June 25.
- Shoe, Dancing. H. Rubin. 1,723,375; Aug. 6.
- Shoe displayer. M. Noble. 1,720,564; July 9.
- Shoe drier. W. C. Schrenkeisen. 1,731,272; Oct. 15.
- Shoe drier, Electric. G. N. Lessard. 1,733,611; Oct. 29.
- Shoe form. W. J. De Witt. 1,733,949; Oct. 29.
- Shoe form. W. J. De Witt. 1,736,780; Nov. 26.
- Shoe form. W. J. De Witt. 1,740,157; Dec. 17.
- Shoe form. B. L. Hirshon. 1,725,516; Aug. 20.
- Shoe form. A. G. Legge. 1,725,589; Aug. 20.
- Shoe form. W. L. C. Niles. 1,706,312; Mar. 19.
- Shoe form. L. F. Wright. 1,714,997; May 28.
- Shoe form, Adjustable. W. J. De Witt. 1,727,338; Sept. 10.
- Shoe form, Expansible. W. J. De Witt. 1,704,693; Mar. 12.
- Shoe form, Expansible. W. J. De Witt. 1,717,839; June 18.
- Shoe form, Expansible. W. J. De Witt. 1,741,831; Dec. 31.
- Shoe forms, Making. W. J. DeWitt. 1,741,830; Dec. 31.
- Shoe forms, Method of and apparatus for the manufacture of hollow. A. G. Legge and M. L. Alger. 1,706,303; Mar. 19.
- Shoe for oil wells, Cement. T. E. D. Crompton. 1,721,107; July 16.
- Shoe, Golf. L. Silvey. 1,702,800; Feb. 19.
- Shoe-handling apparatus. B. S. Leslie. 1,733,351; Oct. 29.
- Shoe hanger. W. J. Hawkins. 1,710,731; Apr. 30.
- Shoe heater. W. H. Baynard. 1,710,287; Apr. 23.
- Shoe heel and assembling and attaching the same. R. S. Megathlin. 1,738,598; Dec. 10.
- Shoehorn. B. E. Bartholomae. 1,710,138; Apr. 23.
- Shoe, Infant's. R. L. Dively and F. D. Dickinson. 1,701,839; Feb. 12.
- Shoe inner brace. M. Incutti. 1,711,788; May 7.
- Shoe jack. T. E. Aho. 1,711,713; May 7.
- Shoe jacket. J. E. Bloomberg. 1,714,760; May 28.
- Shoe lace. H. A. R. Reeves. 1,715,247; May 28.
- Shoe-lace clasp. C. Herman. 1,732,681; Oct. 22.
- Shoe last. J. K. Northrup. 1,738,664; Dec. 10.
- Shoe last. C. Miller. 1,736,545; Nov. 19.
- Shoe last. E. Mottet. 1,723,949; Aug. 6.
- Shoe last for the correction of certain ailments of the human foot. J. A. Creelman. 1,735,593; Nov. 12.
- Shoe leveling and shaping machine. G. Laganas. 1,709,728; Apr. 16.
- Shoe-leveling machine. E. E. Winkley. 1,713,583; May 21.
- Shoe-leveling machine. E. E. Winkley and H. A. Davenport. 1,719,158; July 2.
- Shoe lift. R. E. Freeman. 1,725,000; Aug. 20.
- Shoe lining. J. E. Scott. 1,712,635; May 14.
- Shoe lug. O. H. Jung. 1,701,952; Feb. 12.
- Shoe machine. R. H. Lawson. 1,722,502; July 30.
- Shoe machine. T. Lund. 1,711,605; May 7.
- Shoe machine and making shoes. G. E. Warren. 1,706,642; Mar. 26.
- Shoemaking. J. V. Poole. 1,708,552; Apr. 9.
- Shoemaking apparatus. H. M. Colditz. 1,707,510; Apr. 2.
- Shoe, Ornamental. M. A. Heyman. 1,730,768; Oct. 8.
- Shoe parts, Method of and apparatus for tempering. E. H. Westphal. 1,712,600; May 14.
- Shoe polisher and shoe-polish stick. N. C. Shatzer. 1,740,043; Dec. 17.
- Shoe-polishing stand. W. H. White. 1,717,594; June 18.
- Shoe-positioning means. B. Jorgensen. 1,704,835; Mar. 12.
- Shoe press. M. Guido. 1,710,162; Apr. 23.
- Shoe-pressing device. C. M. Richardson. 1,731,024; Oct. 8.
- Shoe-pressing machine. F. B. Keall. 1,717,387; June 18.
- Shoe-pressing machine. E. E. Winkley. 1,698,041; Jan. 8.
- Shoe rack. W. E. Coombes and E. H. Lerchen. 1,719,320; July 2.
- Shoe rack. H. L. Glidden. 1,703,190; Feb. 26.
- Shoe rack. H. L. Glidden. 1,720,893; July 16.
- Shoe rack. L. R. Hackley. 1,733,487; Oct. 29.
- Shoe rack. L. T. Hill. 1,720,892; July 16.
- Shoe rack. F. P. Murphy. 1,710,940; Apr. 30.
- Shoe rack. C. J. Welsh. 1,717,133; June 11.
- Shoe-rand-cementing machine. J. W. Cosgrove. 1,732,501; Oct. 22.
- Shoe, Self-closing. C. Ferrettie. 1,707,390; Apr. 2.
- Shoe shank. S. Azzara. 1,725,437; Aug. 20.
- Shoe-shank stiffener. R. E. Bartels. 1,737,556; Dec. 3.
- Shoe shank. J. and W. Brems. 1,713,738; May 21.
- Shoe shank. H. G. Josephson. 1,705,976; Mar. 19.
- Shoe shank. H. G. Josephson. 1,712,350; May 7.
- Shoe shank. J. E. Sorenson. 1,712,362; May 7.
- Shoe-shank stiffener. W. H. Nickerson. 1,700,297; Jan. 29.
- Shoe-shank stiffener. R. A. Selby. 1,732,951; Oct. 22.
- Shoe shaper. L. G. and B. W. Freeman. 1,720,891; July 16.
- Shoe shield. C. Watanabe. 1,718,619; June 25.
- Shoe, Sliding. H. W. Shonnard. 1,722,828; July 30.
- Shoe snug. J. Madden. 1,710,885; Apr. 30.
- Shoe sole. G. W. Blair. Des. 78,502; May 14.
- Shoe sole. P. L. Bush. Des. 78,191; Apr. 9.
- Shoe sole. J. E. Grosjean. Des. 79,927; Nov. 19.
- Shoe sole. L. M. Oakley. Des. 78,646; May 28.
- Shoe sole. M. L. Paterson. Des. 79,934; Nov. 19.
- Shoe-sole-attaching machine. G. Laganas. 1,714,380; May 21.
- Shoe-sole clamp. P. Dani. 1,717,148; June 11.
- Shoe sole, Elastic. G. W. Cable. 1,736,576; Nov. 19.
- Shoe-sole press. P. J. Wentworth. 1,716,287; June 4.
- Shoe-sole trimmer. E. Sehl. 1,711,289; Apr. 30.
- Shoe soles, Machine for manufacturing. F. H. Perry. 1,704,838; Mar. 12.
- Shoe soles, Making. F. W. Millay. 1,732,765; Oct. 22.
- Shoe soles, Manufacturing. F. H. Perry. 1,713,550; May 21.
- Shoe, Sport. A. E. Sheill. 1,728,010; Sept. 10.
- Shoe stapling machine. J. M. Alexander. 1,712,601; May 14.
- Shoe stick. C. E. Young. 1,739,813; Dec. 17.
- Shoe stiffener. W. H. Bancroft. 1,708,043; Apr. 9.
- Shoe stiffener. A. L. Clapp. 1,739,578; Dec. 17.
- Shoe stiffener. H. E. Luby. 1,733,811; Oct. 29.
- Shoe stiffener. R. H. Silvester and W. H. Bancroft. 1,720,764; July 16.
- Shoe stiffener and incorporating it in shoes. W. J. Lund and L. P. Mellerio. 1,720,795; July 16.
- Shoe stiffener and making the same. H. H. Beckwith. 1,704,276; Mar. 5.
- Shoe stiffener and making the same. F. Ricks. 1,704,991; Mar. 12.
- Shoe stiffener and manufacturing it. W. H. Bancroft, W. J. Lund, and M. G. Hill. 1,704,818; Mar. 12.
- Shoe stiffener, Impregnated. H. P. Shopneck. 1,725,598; Aug. 20.
- Shoe stiffeners, Method of and machine for softening. E. E. Sabin. 1,740,478; Dec. 24.
- Shoe-stitching or other machines, Stopping or starting mechanism for. J. R. Oliver. 1,697,999; Jan. 8.
- Shoe stretcher. A. Godsho. 1,711,091; Apr. 30.
- Shoe-stretching device. A. Kanell. 1,720,479; July 9.
- Shoe-stretching device. G. S. Love. 1,734,014; Oct. 29.
- Shoe-stretching stick. G. I. Gelder. 1,723,849; Aug. 6.
- Shoe structure. W. W. McCoy. 1,730,228; Oct. 1.
- Shoe structure. S. J. Pentler and O. R. Short. 1,699,913; Jan. 22.
- Shoe, Swimming. D. W. Douglas. 1,729,477; Sept. 24.
- Shoe tongue. A. A. Smith. 1,718,440; June 25.
- Shoe-tree. W. G. Moland. 1,705,198; Mar. 12.
- Shoe-tree, Adjustable. A. V. Argence. 1,721,428; July 16.
- Shoe, Turn. P. D. Nugent. 1,714,691; May 28.
- Shoe upper. J. E. Scott. 1,712,633-4; May 14.
- Shoe-upper-holding device for lasts. J. Shliekr. 1,719,279; July 2.
- Shoe-upper-shaping machine. E. A. Holmgren. 1,711,946; May 7.
- Shoe uppers and the article produced thereby, Assembling stiffeners in. W. H. Baynard. 1,722,654; July 30.
- Shoe, Ventilated. A. Mosquit. 1,718,756; June 25.
- Shoe, Waterproof. A. A. Glidden and W. R. Hickler. 1,731,740-1; Oct. 15.
- Shoe, Welt. W. L. Mills. 1,727,555; Sept. 10.
- Shoe, Wooden stave. W. L. Glenn. 1,726,147; Aug. 27.
- Shoes and soles for use in such methods, Method of making. W. R. Barclay and F. Ricks. 1,708,962; Apr. 16.
- Shoes and their lasts, Method of and machine for separating. M. F. Brogan. 1,721,767; July 23.
- Shoes and trimming the heels thereof, Randing. T. Lund. 1,708,973; Apr. 16.
- Shoes, Apparatus for use in the manufacture of. B. Jorgensen. 1,737,012; Nov. 26.



- Shoes, Bottom for. R. W. Schneider. 1,731,225; Oct. 8.  
 Shoes, Cleat for baseball. D. J. Golden. 1,724,190; Aug. 13.  
 Shoes, Creeper or antislip device for. V. C. Conover. 1,722,840; July 30.  
 Shoes, Cushion flap for. E. Hodaly. 1,732,014; Oct. 15.  
 Shoes, Finishing. M. L. Dodge. 1,722,790; July 30.  
 Shoes, Lasting of. G. Goddu. 1,731,853; Oct. 15.  
 Shoes, Machine for and making. R. H. Lawson. 1,706,619; Mar. 26.  
 Shoes, Making. W. B. Campbell. 1,710,043; Apr. 23.  
 Shoes, Making. J. A. Kelly. 1,714,271; May 21.  
 Shoes, Making. J. W. May. 1,741,999; Dec. 31.  
 Shoes, Making. N. C. Small. 1,708,034; Apr. 9.  
 Shoes, Making. L. E. Topham and A. R. Morrill. 1,732,572; Oct. 22.  
 Shoes, Making. G. E. Warren. 1,706,504; Mar. 26.  
 Shoes, Making. G. E. Warren. 1,732,293; Oct. 22.  
 Shoes, Making. F. J. Wentworth. 1,741,747; Dec. 31.  
 Shoes, Making one-piece. S. Strauss. 1,725,315; Aug. 20.  
 Shoes, Making turn. M. L. Dodge. 1,701,997; Feb. 12.  
 Shoes, Making turn. M. L. Dodge. 1,707,656; Apr. 2.  
 Shoes, Manufacture of. L. J. Bazzoni. 1,740,448; Dec. 24.  
 Shoes, Manufacture of. F. N. La Chapelle. 1,729,169; Sept. 24.  
 Shoes, Manufacture of. G. Goddu. 1,731,855; Oct. 15.  
 Shoes, Manufacture of stitch-down. W. Kaut. 1,733,375; Oct. 29.  
 Shoes, Method for use in the manufacture of turned. H. Newmann. 1,737,727; Dec. 3.  
 Shoes or slippers, Making. W. T. Tracy. 1,723,533; Aug. 6.  
 Shoes, Providing track. C. L. Best. 1,705,802; Mar. 19.  
 Shoes, Quarter adjuster and stretcher for low. P. J. Hogan. 1,716,133; June 4.  
 Shoes, Wedge attachment for. U. Miozza. 1,703,045; Feb. 19.  
 Shoes with adhesively attached soles, Manufacturing. F. Holland. 1,726,488; Aug. 27.  
 Shoewear and manufacturing the same. E. Braun. 1,729,204; Sept. 24.  
 Shooting gallery. G. E. Smith. 1,731,397; Oct. 15.  
 Shooting gallery, Ball-. L. G. Baker. 1,736,244; Nov. 19.  
 Shop, Dutch. J. R. Cambern. Des. 79,323; Sept. 3.  
 Shopping bag. E. C. Carlson. 1,730,603; Oct. 8.  
 Shopping bag. W. H. Deubener. 1,713,747; May 21.  
 Shopping bag. W. H. Deubener. 1,714,162; May 21.  
 Shopping bag. J. Duvall. 1,721,043; July 16.  
 Shopping bag. R. M. Lackey. 1,741,527; Dec. 31.  
 Shore, Adjustable. C. L. Meyer. 1,710,886; Apr. 30.  
 Shore attachment. H. W. Roos. 1,722,312; July 30.  
 Shopping bag. H. Wunderlich. 1,729,318; Sept. 24.  
 Shore, Adjustable. T. Mayo. 1,730,618; Oct. 8.  
 Short-circuit detector. C. A. Butcher. 1,741,976; Dec. 31.  
 Short-circuiting device. W. J. Branson and E. M. Wright. 1,733,216; Oct. 29.  
 Short-circuiting device. E. J. Haverstick. 1,735,114; Nov. 12.  
 Short-circuiting device. J. D. Karle. 1,737,538; Nov. 26.  
 Short-circuiting device for motors. G. H. Leland. 1,713,610; May 21.  
 Short-circuiting switch. L. B. Frie and E. G. Bergmann. 1,700,836; Feb. 5.  
 Short waves, Arrangement for producing. O. Böhm. 1,717,656; June 18.  
 Shotgun, Automatic. E. H. Shelman. 1,702,984; Feb. 19.  
 Shoulder pad. R. T. Mullins. 1,709,184; Apr. 16.  
 Shovel: See  
   Cultivator shovel.                   Rope-thrusting shovel.  
   Mechanical shovel.               Utility shovel.  
   Power shovel.  
 Shovel. J. M. Denning. 1,714,592; May 28.  
 Shovel. E. W. Lawson. Des. 77,900; Mar. 5.  
 Shovel. L. Linsley. 1,716,785; June 11.  
 Shovel. J. P. Verburg. 1,731,512; Oct. 15.  
 Shovel and sifter, Combined. C. Cipriano. 1,710,204; Apr. 23.  
 Shovel handle. F. C. Brandenburg. 1,727,333; Sept. 10.  
 Shovel handle. F. C. Brandenburg. 1,727,864; Sept. 10.  
 Shovel handle. V. S. Yarnall. 1,697,895; Jan. 8.  
 Shovel structure, Power-. E. J. Wilson. 1,698,748; Jan. 15.  
 Shovels, Dipper-dumping control for. E. H. Lichtenberg and H. E. Brey. 1,731,673; Oct. 15.  
 Shovels, hoists, cranes, and the like, Control mechanism for power. L. O. McLean. 1,711,896; May 7.  
 Shovels, Tripping device for the bucket door of power. H. L. Mitchell. 1,699,371; Jan. 15.  
 Show case. L. W. Kennedy. 1,725,867; Aug. 27.  
 Show case. F. Morris. 1,714,233; May 21.  
 Show case, Refrigerated. K. A. Weber. 1,730,488; Oct. 8.  
 Show case, Refrigerated. E. Zelenka and A. Theis. 1,729,638; Oct. 1.  
 Show case, Refrigerator. M. Groenburg. 1,735,642; Nov. 12.  
 Show case, Refrigerator. G. F. Moorehead. 1,712,896; May 14.  
 Show case, Vertical rotatable. B. M. Smith. 1,717,943; June 18.  
 Shower. T. C. Shields and W. J. Cameron. 1,736,803; Nov. 26.  
 Shower bath. B. J. Dickert. 1,723,410; Aug. 6.  
 Shower head. S. Smith. Des. 77,442; Jan. 8.  
 Shower or spray bath apparatus. R. L. Frost. 1,714,218; May 21.  
 Shredder. M. M. McCutcheon. 1,728,801; Sept. 17.  
 Shredder and mixer. E. Schmierer. 1,703,211; Feb. 26.  
 Shredder, Stubble. G. E. Chase. 1,740,069; Dec. 17.  
 Shredder, Stubble. E. A. Johnston, B. R. Benjamin, and G. M. Merwin. 1,698,724; Jan. 15.  
 Shredding and feeding mechanism, Cane. W. G. Hall. 1,735,889; Nov. 12.  
 Shredding machine. R. E. Bevis. 1,725,176; Aug. 20.  
 Shrine. E. Eckert. Des. 78,386; Apr. 30.  
 Shrine. E. Eckert. Des. 78,736; June 18.  
 Shrine. E. Eckert. Des. 79,354; Sept. 10.  
 Shrinkage of dresses after being cleaned, Device for preventing the. S. G. Sahagian. 1,737,434; Nov. 26.  
 Shrinking cloth, Device for. S. L. Cluett. 1,734,897; Nov. 5.  
 Shrinking hat bodies and the like. L. Wheeler. 1,716,401; June 11.  
 Shunt blowout device. G. B. Fuller. 1,722,046; July 23.  
 Shut-off device. J. C. Carner. 1,734,074; Nov. 5.  
 Shut-off device, Circulation. W. N. Rieger. 1,706,072; Mar. 19.  
 Shut-off for liquid-delivery systems, Automatic. J. J. Hawxhurst. 1,712,498; May 14.  
 Shut-off mechanism for coffee-mill hoppers. W. F. Stimpson and W. E. Finch. 1,725,942; Aug. 27.  
 Shutter. T. Ohno. 1,715,424; June 4.  
 Shutter. T. Ohno. 1,723,487; Aug. 6.  
 Shutter and screen, Fireplace. A. W. Mumford. 1,726,854; Sept. 3.  
 Shutter, Automatic. O. K. Dyer. 1,706,280; Mar. 19.  
 Shutter, Automatic fire. J. M. Cornell. 1,708,377; Apr. 9.  
 Shutter, Fireproof. T. Sudzki. 1,707,287; Apr. 2.  
 Shutter for automobile radiators. J. E. Messenger. 1,717,277; Apr. 23.  
 Shutter for automobile radiators, Automatic. C. W. Herr. 1,713,281; May 14.  
 Shutter for shop fronts, doors, windows, and the like, Roller. B. Negrini. 1,720,850; July 16.  
 Shutter, Framing. K. Brenkert and J. W. Brenkert. 1,738,945; Dec. 10.  
 Shutter, Hydrostatic weir. F. Jermáf. 1,716,698; June 11.  
 Shutter mechanism for motion-picture machines. W. A. Kemp. 1,697,429; Jan. 1.  
 Shutter, Movable fire. W. E. Duncanson. 1,705,085; Mar. 12.  
 Shutter-operating device. E. H. McCloud. 1,718,752; June 25.  
 Shutter-operating device or attachment for cameras. E. E. Harde. 1,709,473; Apr. 16.  
 Shutter trackway. W. T. Smith. 1,718,183; June 18.  
 Shutter, Ventilating. R. A. Workman. 1,706,338; Mar. 19.  
 Shutter, Ventilating. R. A. Workman. 1,711,215; Apr. 30.  
 Shutter, Weir. F. Jermáf. 1,737,311; Nov. 26.  
 Shutter, Window. W. Tate. 1,723,095; Aug. 6.  
 Shuttle. F. E. Ashton. 1,729,413; Sept. 24.  
 Shuttle. F. E. Ashton. 1,736,030; Nov. 19.  
 Shuttle. M. Camagni. 1,709,113; Apr. 16.  
 Shuttle. J. B. Daudelin. 1,697,458; Jan. 1.  
 Shuttle. E. E. Fuller. 1,726,553; Sept. 3.  
 Shuttle. F. Giebler. 1,730,931; Oct. 8.  
 Shuttle. W. L. Hall. 1,737,370; Nov. 28.  
 Shuttle. G. Hoffmann. 1,705,290; Mar. 12.  
 Shuttle. L. Pavia. 1,703,454; Feb. 26.  
 Shuttle. L. Pavia. 1,735,544; Nov. 12.  
 Shuttle. W. L. Potter. 1,703,542; Feb. 26.  
 Shuttle. F. Renzo and R. Sedlatschek. 1,701,216; Feb. 5.  
 Shuttle. C. H. Sergeson. 1,728,083; Sept. 10.  
 Shuttle. A. M. Sergeson. 1,729,524; Sept. 24.  
 Shuttle. I. Snow. 1,709,413; Apr. 16.  
 Shuttle. M. Verdegem and W. A. Graf. 1,704,309; Mar. 5.  
 Shuttle, Automatically-threading loom. H. A. Davis. 1,715,001; May 28.  
 Shuttle, Automatically-threading loom. H. A. Davis. 1,720,410-11; July 9.  
 Shuttle, Automatically-threading loom. W. A. Tebo. 1,714,991-2; May 28.  
 Shuttle-bar mechanism. J. B. Kintzing. 1,726,074; Aug. 27.  
 Shuttle, bobbin, and winding device, Combined. F. F. Schmiege. 1,698,610; Jan. 8.  
 Shuttle check. G. Galle. 1,707,851; Apr. 2.  
 Shuttle check, Adjustable. F. Ramm. 1,717,259; June 11.  
 Shuttle construction. W. L. Hall. 1,707,805; Apr. 2.  
 Shuttle, Diagonal friction pin. I. Snow. 1,708,595; Apr. 9.  
 Shuttle driver for looms. E. L. Kunze. 1,716,353; June 4.  
 Shuttle eye. M. Th. Kazanias. 1,740,023; Dec. 17.  
 Shuttle feeler and thread cutter for looms, Combined. R. W. Potter. 1,712,445; May 7.  
 Shuttle for looms, Automatically threading. W. A. Tebo. 1,722,254; July 23.  
 Shuttle for looms, Automatically threading. E. B. Tift. 1,739,994; Dec. 17.  
 Shuttle for weaving looms. F. Krumper. 1,725,804; Aug. 27.  
 Shuttle friction device, Two-pin. H. A. Davol. 1,711,227; Apr. 30.  
 Shuttle, Hood. J. A. Carnie and J. A. Sutton. 1,698,186; Jan. 8.  
 Shuttle, Loom. A. Gingras. 1,709,720; Apr. 16.  
 Shuttle, Loom. A. S. Hutchins. 1,734,092; Nov. 5.



- Shuttle mechanism for shoe-sewing machines. J. H. Reed. 1,724,964; Aug. 20.
- Shuttle motion, Positive. J. B. Kintzing. 1,711,204; Apr. 30.
- Shuttle, Self-threading. A. Cederlund and A. S. Hutchins. 1,723,921; Aug. 6.
- Shuttle, Self-threading. A. S. Hutchins. 1,723,937; Aug. 6.
- Shuttle, Self-threading. J. R. Shutt and A. A. Gordon. 1,723,424; Aug. 6.
- Shuttle, Self-threading loom. G. A. Litchfield. 1,728,160; Sept. 10.
- Shuttle, Sewing-machine. R. L. Ham. 1,714,981; May 28.
- Shuttle, Sewing-machine. R. L. Ham. 1,737,418; Nov. 26.
- Shuttle threader and thread tensioner. L. A. Cadoret. 1,724,790; Aug. 13.
- Shuttles, Adjustable filling guide for. J. E. Richard. 1,713,351; May 14.
- Shuttles, Friction device for. H. A. Davol. 1,710,017; Apr. 23.
- Shuttles, Friction device for hand threading. H. A. Davol. 1,710,018; Apr. 23.
- Shuttles, Tension-plate-adjusting screw for. W. L. Hall. 1,731,046; Oct. 8.
- Side-delivery rake. H. G. Murphy and W. V. Gustison. 1,728,301; Sept. 17.
- Side frame. D. S. Barrows. 1,740,563-5; Dec. 24.
- Side frame. D. S. Barrows and B. W. Kadel. 1,740,562; Dec. 24.
- Side frame. G. S. Chiles. 1,736,251; Nov. 19.
- Side frame. C. Hankins. 1,706,665; Mar. 26.
- Side frame. B. W. Kadel. 1,698,597; Jan. 8.
- Side frame. B. W. Kadel. 1,710,624; Apr. 23.
- Side frame. B. W. Kadel. 1,740,600; Dec. 24.
- Side frame, Cast-steel. M. H. Martin. 1,718,470; June 25.
- Sidewalk cleaner. D. Pappas. 1,716,661; June 11.
- Sidewalk, roadway, and the like. J. W. Robinson. 1,740,119; Dec. 17.
- Sieve, Cleaning. H. L. Johnson. 1,701,778; Feb. 12.
- Sifter. H. J. Bloom. 1,717,654; June 18.
- Sifter. L. A. Marcus. 1,712,306; May 7.
- Sifter. S. Schiff. 1,701,126; Feb. 5.
- Sifter. J. Sharp. 1,704,107; Mar. 5.
- Sifter, Ash. I. Leibowitz. 1,717,514; June 18.
- Sifter, Flour. A. W. Andrews. 1,704,525; Mar. 5.
- Sifter, Flour. C. A. Holgersson. 1,727,829; Sept. 10.
- Sifter, Flour. R. M. Welch. 1,704,583; Mar. 5.
- Sifter, Household. C. F. Pfalzgraf. 1,697,367; Jan. 1.
- Sifter, Multiflour. J. F. Brunner. 1,716,761; June 11.
- Sifter, Reversible. F. Clark. 1,737,298; Nov. 26.
- Sifter top. C. G. Arridson. 1,737,548; Dec. 3.
- Sifting and mixing device, Combined. A. O. Drake. 1,707,078; Mar. 26.
- Sifting means. J. Peter. 1,706,320; Mar. 19.
- Sight, Bomb. J. Boykow. 1,703,386; Feb. 26.
- Sight, Drift. B. Jones. 1,730,078; Oct. 1.
- Sight-flow indicator. W. W. Nugent. 1,719,619; July 2.
- Sight for rifles, Detachable. R. G. Prichard, jr. 1,704,060; Mar. 5.
- Sight mount for guns. J. L. Hatcher. 1,710,022; Apr. 23.
- Sighting rib. E. M. Hager and E. O'Brien. 1,718,458; June 25.
- Sighting system for antiaircraft guns. S. G. Green. 1,709,018; Apr. 16.
- Sign. H. M. Bichelani. 1,723,127; Aug. 6.
- Sign. H. C. Bloomingdale. Re17,463; Oct. 15.
- Sign. N. I. Brown. Des. 78,685; June 4.
- Sign. D. A. Brumbaugh. Des. 77,527-8; Jan. 22.
- Sign. W. A. Burns. 1,717,434; June 18.
- Sign. R. M. Craig. 1,702,497; Feb. 19.
- Sign. L. Hall. 1,738,895; Dec. 10.
- Sign. E. E. Hamilton. 1,703,857; Feb. 26.
- Sign. A. Holder. 1,719,267; July 2.
- Sign. L. H. Hyatt. 1,739,592; Dec. 17.
- Sign. D. J. Kelley. 1,713,386; May 14.
- Sign. W. J. Kerr. Des. 78,577; May 21.
- Sign. L. P. Kreuder. Des. 78,105; Mar. 26.
- Sign. C. A. G. Kuipers. 1,720,736; July 16.
- Sign. L. C. Lotz. 1,734,736; Nov. 5.
- Sign. G. E. Pancoast. 1,708,028; Apr. 9.
- Sign. W. E. Price. 1,712,355; May 7.
- Sign. W. E. Price. 1,725,997; Aug. 27.
- Sign. F. K. Richtmyer. 1,717,938; June 18.
- Sign. J. G. Ross. Des. 77,913; Mar. 5.
- Sign. M. Seelen. 1,699,030; Jan. 15.
- Sign. G. M. Smith. Des. 79,108; July 30.
- Sign. W. F. Smith. 1,736,889; Nov. 26.
- Sign. H. H. Stephenson. 1,708,336; Apr. 9.
- Sign. J. R. Wall. 1,713,632; May 21.
- Sign. A. J. Wehr and A. V. Elliot. 1,732,822; Oct. 22.
- Sign. E. J. Weikert. 1,730,701; Oct. 8.
- Sign. J. D. White. 1,740,674; Dec. 24.
- Sign. C. S. Willey. 1,724,243; Aug. 13.
- Sign, Adjustable and interchangeable advertising. A. Kugler. 1,725,008; Aug. 20.
- Sign, Advertising. E. M. Clark. Des. 78,008; Mar. 19.
- Sign, Advertising. E. C. Cowell. 1,737,076; Nov. 26.
- Sign, Advertising. J. E. Doyle, jr. 1,715,061; May 28.
- Sign, Advertising. C. H. Frederick. 1,735,040; Nov. 12.
- Sign, Advertising. G. Hyman. 1,739,837; Dec. 17.
- Sign, Advertising. M. Rivkin. 1,720,441; July 9.
- Sign, Advertising. J. Soderberg. 1,731,948; Oct. 15.
- Sign, Advertising. E. F. Thielor. 1,711,759; May 7.
- Sign, Advertising. F. Wolff. Des. 78,076; Mar. 19.
- Sign, Advertising and like. G. F. Whippy, D. J. Hooper, and W. H. T. Manley. 1,738,468; Dec. 3.
- Sign and display apparatus, Changing. L. E. de Mole. 1,737,573; Dec. 3.
- Sign and mail-box support, Combination advertising. H. W. Gantner. Des. 77,949; Mar. 12.
- Sign and making same, Illuminated. A. L. Block. 1,698,357; Jan. 8.
- Sign and manufacturing the same. M. C. Rosenfeld and F. E. McCabe. 1,741,118; Dec. 24.
- Sign and reflector, Street. W. Ducker and F. D. Luke. 1,716,214; June 4.
- Sign and the like, Advertising. V. Bridgman. 1,717,758; June 18.
- Sign, Animal display. H. E. Van Norman. Des. 78,669; May 28.
- Sign, Animated. R. M. Anderson. 1,737,290; Nov. 26.
- Sign apparatus. B. H. Wallace. 1,728,317; Sept. 17.
- Sign attachment for automobiles. R. E. L. Spotswood. 1,733,918; Oct. 29.
- Sign, Auto door. A. W. Lohn, jr. 1,706,578; Mar. 26.
- Sign, Balloon advertising. J. R. and A. H. Miller. Des. 79,200; Aug. 13.
- Sign, Barber. G. Albanese. Des. 78,252; Apr. 16.
- Sign, Barber's. A. Edlis. Des. 79,420; Sept. 17.
- Signboard, Advertising. W. Winter. 1,726,282; Aug. 27.
- Signboard, Animated. R. Cordill and H. C. Yunker. 1,740,499; Dec. 24.
- Sign border. N. Berggren. Des. 80,070; Dec. 10.
- Sign-casing construction. C. J. Cornell. 1,718,114; June 18.
- Sign, Changeable. D. Beasley. 1,732,178; Oct. 15.
- Sign, Changeable. R. R. Brown. 1,716,760; June 11.
- Sign, Changeable. H. Fortkamp. 1,735,386; Nov. 12.
- Sign, Changeable. C. A. Giroux. 1,731,164; Oct. 8.
- Sign, Changeable. P. Klimowicz. 1,712,829; May 14.
- Sign, Changeable. C. E. Noville. 1,736,664; Nov. 19.
- Sign, Changeable. J. D. Self. 1,710,745; Apr. 30.
- Sign character. G. P. Childers. Des. 79,738; Nov. 5.
- Sign character. A. E. Tarbox. 1,721,192; July 16.
- Sign-control mechanism, Electric. L. B. Garber. 1,740,295; Dec. 17.
- Sign, Daylight. W. W. Davis. 1,729,822; Oct. 1.
- Sign-display device, Rotating. J. L. Morris and B. E. Mitchell. 1,738,840; Dec. 10.
- Sign, Display. R. M. Craig. 1,725,851; Aug. 27.
- Sign, Electric. G. C. Cannon. 1,697,753; Jan. 1.
- Sign, Electric. J. Cantú. 1,739,577; Dec. 17.
- Sign, Electric. G. A. Levey. 1,715,091; May 28.
- Sign, Electrically-operated. E. Mohn. 1,726,912; Sept. 3.
- Sign, Electrically-operated color-ray. F. P. Wilson. 1,731,960; Oct. 15.
- Sign, Fabricated. E. F. Wambach. 1,732,869; Oct. 22.
- Sign, Flasher, Electric. H. N. Wagner. 1,731,513; Oct. 15.
- Sign-flasher switch. L. E. Chance. 1,704,461; Mar. 5.
- Sign for advertising and the like. O. Hirt, E. Ayllés, and A. Forero. 1,697,913; Jan. 8.
- Sign for automobiles, Illuminated name. N. Martin. 1,737,858; Dec. 3.
- Sign hooks, Making. J. Nelson. 1,714,805; May 28.
- Sign, Illuminated. W. R. Hamilton. 1,721,446; July 16.
- Sign, Illuminated. J. P. Hill. 1,711,945; May 7.
- Sign, Illuminated. J. Hotchner. 1,740,736; Dec. 24.
- Sign, Illuminated. F. H. Scantlebury. 1,707,965; Apr. 2.
- Sign, Illuminated. E. O. Tilbe. 1,740,845; Dec. 24.
- Sign, Illuminated. H. F. White. 1,741,748; Dec. 31.
- Sign, Illuminated stop. J. L. Demerling. Des. 79,066; July 30.
- Sign, Interchangeable card. H. E. Pease. 1,735,836; Nov. 12.
- Sign letter. A. W. Gast. 1,697,501; Jan. 1.
- Sign, Luminous. S. M. Thomas. 1,720,155; July 9.
- Sign, Luminous. A. de Francia. 1,740,228; Dec. 17.
- Sign, Luminous. W. H. Lake. 1,711,850; May 7.
- Sign, Luminous. J. P. E. Petersen. 1,725,206; Aug. 20.
- Sign, Luminous. J. O. Sullivan. 1,721,534; July 23.
- Sign, Luminous-tube. W. F. Hendry. 1,724,584; Aug. 13.
- Sign, Metal. E. P. Wright. 1,717,866; June 18.
- Sign, Moving daylight. J. F. Casey. 1,726,470; Aug. 27.
- Sign, Multifaced. F. L. Priest. 1,713,053; May 14.
- Sign novelty. S. J. Shepard. Des. 78,366; Apr. 23.
- Sign or emblem, Electric-lighted display. W. E. Price. 1,740,747; Dec. 24.
- Sign or optical apparatus. W. Herrschaft. 1,737,238; Nov. 26.
- Sign or poster board, Sectional. W. R. Bell. 1,740,534; Dec. 24.
- Sign or the like, Advertising. R. E. Mooney, jr. Des. 79,094; July 30.
- Sign, Perpetual-care. J. Cannon. 1,727,463; Sept. 10.
- Sign, Reflecting. T. W. Brown. Des. 79,786; Nov. 5.
- Sign, Reflector. J. Schauder. 1,732,068; Oct. 15.
- Sign, Road. W. H. Carson. Des. 78,442; May 7.
- Sign, Road. J. W. Smith. 1,735,444; Nov. 12.
- Sign, Street. H. C. Gatchell. 1,736,437; Nov. 19.
- Sign, Street. A. H. Gottlieb and G. A. Di Martino. Des. 79,024; July 23.
- Sign, Street. O. J. Helvey. 1,726,955; Sept. 3.
- Sign, Street. G. S. Searle. 1,697,025; Jan. 1.
- Sign, Street. G. S. Searle. 1,709,633; Apr. 16.
- Sign, Street. S. Smigielski. 1,700,383; Jan. 29.
- Sign-supporting column. C. A. Lynch. Des. 78,710; June 11.
- Sign-supporting stand. H. B. Little. 1,704,199; Mar. 5.



- Sign, Unbreakable illuminated electric. J. Roth. 1,723,952; Aug. 6.
- Sign, Vehicle advertising. W. M. Gardner. 1,705,517; Mar. 19.
- Sign, Weatherproof luminous. F. Homolka. 1,726,896; Sept. 3.
- Sign, Window display. L. C. Rau. Des. 79,119; July 30.
- Sign, Writing. T. Pearson and H. E. Garber. 1,737,092; Nov. 26.
- Signs, Making. A. Schwarz. 1,717,738; June 18.
- Signs to glass, Applying. H. Beinroth. 1,739,819; Dec. 17.
- Signal: See—
- |                              |                           |
|------------------------------|---------------------------|
| Alarm signal.                | Light signal.             |
| Auto signal.                 | Liquid-level signal.      |
| Automobile signal.           | Railroad signal.          |
| Automobile-turning signal.   | Railway-crossing signal.  |
| Cab signal.                  | Railway signal.           |
| Car-door signal.             | Reflecting signal.        |
| Commodity signal.            | Safety signal.            |
| Crossing signal.             | Safety-warning signal.    |
| Diaphragm signal.            | Sound signal.             |
| Direction-indicating signal. | Speed-indicator signal.   |
| Direction signal.            | Speed-responsive signal.  |
| Directional signal.          | Stop signal.              |
| Electric signal.             | Tank-level signal.        |
| Fishing-line signal.         | Thermostatic signal.      |
| Fishing signal.              | Traffic-direction signal. |
| Flashing signal.             | Traffic signal.           |
| Grade-crossing signal.       | Train signal.             |
| Highway signal.              | Turning signal.           |
| Illuminating signal.         | Vehicle signal.           |
| Index signal.                | Visual signal.            |
| Lamp signal.                 | Warning signal.           |
- Left-turn and stop signal.
- Signal. E. G. Anderson. 1,717,298; June 11.
- Signal. B. E. Gordon and L. Hatcher. Des. 78,462; May 7.
- Signal. W. T. Gorrell. 1,719,697; July 2.
- Signal. A. M. Miller. 1,712,395; May 7.
- Signal. M. M. Moore. 1,717,617; June 18.
- Signal. J. Namet and P. McManaman. 1,728,302; Sept. 17.
- Signal. J. Predhumeau. 1,721,833; July 23.
- Signal. G. W. Rapp. 1,721,604; July 23.
- Signal. C. H. Reuber. 1,713,004; May 14.
- Signal. E. C. Rumsey. 1,730,335; Oct. 1.
- Signal. G. Zint. 1,736,709; Nov. 12.
- Signal accelerator for fire-extinguishing systems, Automatic thermal. E. A. Lowe and J. R. Hamilton. 1,738,656; Dec. 10.
- Signal alarm. S. J. Marchosky. 1,711,276; Apr. 30.
- Signal-amplifying system, Electrical. B. F. Miessner. 1,720,914; July 16.
- Signal and air-supply device, Submarine. Y. Shimizu. 1,728,882; Sept. 17.
- Signal and lamp post, Combined traffic. R. V. Spencer. Des. 79,764; Oct. 29.
- Signal apparatus. J. W. Bryce. 1,713,021; May 14.
- Signal apparatus associated with electrically-controlled machinery. A. E. Billingsley. 1,709,517; Apr. 16.
- Signal apparatus for motor vehicles. W. Townsend. 1,736,060; Nov. 19.
- Signal apparatus with automatic mantle renewal, Gas-illuminated. J. H. F. Spiegelberg. 1,713,985; May 21.
- Signal arm. J. P. Bedford. Des. 79,123; Aug. 6.
- Signal attachment for locomotives. J. A. Taylor. 1,712,058; May 7.
- Signal attachment for telephones. C. J. Decker. 1,720,668; July 16.
- Signal box. R. W. Carnahan. 1,704,696; Mar. 12.
- Signal casing. C. M. Jacobsen. 1,730,975; Oct. 8.
- Signal-control apparatus. R. H. Ewing and P. P. Ash. 1,702,997; Feb. 19.
- Signal control for automobile. C. H. Twetten. 1,738,975; Dec. 10.
- Signal-controlling switch. A. H. Ellis. 1,716,373; June 11.
- Signal control system. H. Diehl. 1,731,127; Oct. 8.
- Signal controller. C. A. B. Halvorson, Jr., and H. W. Vickery. 1,725,635; Aug. 20.
- Signal-controlling mechanism for automobiles. W. A. Eckert. 1,726,811; Sept. 3.
- Signal device. E. S. Anderson. 1,737,631; Dec. 3.
- Signal device. I. Caplan. 1,735,562; Nov. 12.
- Signal device. R. Edelmann. 1,741,687; Dec. 31.
- Signal device. W. S. Schum. 1,710,432; Apr. 23.
- Signal device. W. S. Schum. 1,733,134; Oct. 29.
- Signal device for automobiles. G. H. Sautier. 1,703,957; Mar. 5.
- Signal device for fire-sprinkler and other systems. L. D. Chandler. 1,702,930; Feb. 19.
- Signal device for pneumatic tires. J. H. Loeb. 1,699,366; Jan. 15.
- Signal device for vehicles. F. Albert. 1,699,420; Jan. 15.
- Signal device, Light-reflecting. E. M. Carter. 1,739,289; Dec. 10.
- Signal device, Movable. H. J. Murray. 1,704,709; Mar. 12.
- Signal device, Stop-. C. Svec. 1,704,774; Mar. 12.
- Signal device, Train. L. L. Nettleton. 1,714,041; May 21.
- Signal device, Vehicle. W. H. Katt. 1,733,885; Oct. 29.
- Signal device, Vehicle. H. J. Murray. 1,726,994; Sept. 3.
- Signal devices, Circuit closer for. A. E. Phillips. 1,705,135; Mar. 12.
- Signal exhibitor. J. A. Shepherd and W. L. Johnston. 1,716,860; June 4.
- Signal for airships. J. P. Buckley and A. E. Nesbitt. 1,725,563; Aug. 20.
- Signal for automobiles. C. R. Saffold and H. O. F. Taufenner. 1,737,546; Nov. 26.
- Signal for automobiles, Direction. D. Davis. 1,708,216; Apr. 9.
- Signal for automobiles, Direction. V. V. de los Santos. 1,721,947; July 23.
- Signal for automobiles, Direction. W. C. Gray. Des. 79,423; Sept. 17.
- Signal for automobiles, Direction. W. H. Kelly. 1,732,165; Oct. 15.
- Signal for automobiles, Direction-indicating. J. L. McGrane. 1,703,775; Feb. 26.
- Signal for automobiles, Suction-operated. N. W. Matthews. 1,725,813; Aug. 27.
- Signal for automobiles, Traffic. J. Setters. 1,708,742; Apr. 9.
- Signal for automobiles, Warning. R. H. Gilbert. 1,729,071; Sept. 24.
- Signal for concrete mixers. G. Jaeger. 1,714,475; May 21.
- Signal for cooking utensils. I. J. Arons. 1,699,089; Jan. 15.
- Signal for detecting oil in water tanks. T. A. Short. 1,708,033; Apr. 9.
- Signal for electric flatirons, Safety. O. Anderson. 1,714,937; May 23.
- Signal for highways, Traffic. T. M. Matthews. 1,728,687; Sept. 17.
- Signal for mines. M. Nikolish. 1,737,514; Nov. 26.
- Signal for motor vehicles, Direction. A. L. Davis. 1,738,871; Dec. 10.
- Signal for motor vehicles, Motion-direction. I. E. Brown and N. Hoffman. 1,707,900; Apr. 2.
- Signal for motor vehicles, Traffic. H. W. Batcheller. 1,697,586; Jan. 1.
- Signal for pneumatic tires. J. M. Scott and W. L. Dayton. 1,726,243; Aug. 27.
- Signal for railroad crossing, Warning. A. A. Bigger. 1,725,505; Aug. 20.
- Signal for railroad crossings. F. W. McFarland and W. R. Long. 1,698,410; Jan. 8.
- Signal for railway crossings and the like, Automatic warning. A. Feyertag. 1,731,566; Oct. 15.
- Signal for railways and the like, Light. W. Challis and C. H. W. Edmonds. 1,703,224; Feb. 26.
- Signal for vehicles, Directional. J. M. Almedia. 1,698,666; Jan. 8.
- Signal for vehicles, Indicating. H. L. Shotwell. 1,721,642; July 23.
- Signal-indicating system and apparatus. G. M. Sacredote. 1,705,030; Mar. 12.
- Signal light. A. C. Gregory. 1,712,665; May 14.
- Signal light. W. Schlie. 1,727,522; Sept. 10.
- Signal light and making same. G. W. Frost. 1,729,337; Sept. 24.
- Signal light and unit assembly, Multiple. H. C. Foster. 1,740,541; Dec. 24.
- Signal-light casing. R. C. Gallinant. Des. 78,460; May 7.
- Signal light, Double-headed three-way. W. H. Wetzel. 1,719,918; July 9.
- Signal light, Electric. C. E. Hodecker. 1,709,850; Apr. 23.
- Signal light, Marine. L. T. Scott. 1,735,797; Nov. 12.
- Signal-locking device, Railway. B. R. Smith. 1,710,519; Apr. 23.
- Signal means for automobiles. G. H. Leitner. 1,711,269; Apr. 30.
- Signal means for elevators. W. H. Grover, C. E. Merritt, and W. S. Pooley. 1,731,975; Oct. 15.
- Signal mechanism, Automatic highway-crossing. C. Adler, Jr. 1,701,251; Feb. 5.
- Signal or clip. C. S. Carter and B. L. Polkosnik. 1,713,994; May 21.
- Signal post, Self-arighting. J. and H. W. Rank. 1,734,344; Nov. 5.
- Signal receiver. J. F. Farrington and E. H. Smythe. 1,730,605; Oct. 8.
- Signal reception, Method of and apparatus for. W. L. Carlson. 1,734,894; Nov. 5.
- Signal reflector, Traffic-. S. A. Eskilson. 1,719,602; July 2.
- Signal switch, Automobile. H. Pereira. 1,709,806; Apr. 16.
- Signal switch, Crossing-gate. E. A. Everett. 1,717,442; June 18.
- Signal switch device for motor vehicles. F. W. Johnson. 1,729,616; Oct. 1.
- Signal switch, Direction-. D. A. Mace. 1,737,166; Nov. 26.
- Signal switch, Vehicular traffic-. W. W. Bugh. 1,736,069; Nov. 19.
- Signal system. C. A. Campbell. 1,733,149; Oct. 29.
- Signal system. R. A. Heising. 1,711,679; May 7.
- Signal system. H. Hubbell. 1,726,835; Sept. 3.
- Signal system and direction indicator for automobiles. C. F. A. Eddy. 1,712,554; May 14.
- Signal system and switch, Mine-hoist. M. W. Russey. 1,739,613; Dec. 17.
- Signal system, Block-. M. H. Hovey. 1,703,107; Feb. 26.
- Signal system, Carrier. H. B. Arnold. 1,717,083; June 11.
- Signal system, Combined. E. B. Mallory. 1,732,688; Oct. 22.



- Signal system, Electric. T. H. Thomas. 1,723,219; Aug. 6.
- Signal system, Elevator. C. E. Orr. 1,731,789; Oct. 15.
- Signal system for highway intersections. C. Adler, jr. 1,705,323; Mar. 12.
- Signal system, Railway. D. J. McCarthy. 1,741,642; Dec. 31.
- Signal tab. H. J. Lindsay. 1,697,985; Jan. 8.
- Signal-translating device. C. R. Hanna. 1,702,434; Feb. 19.
- Signaling. J. F. Farrington. 1,722,080; July 23.
- Signaling. J. F. Farrington. 1,724,917; Aug. 20.
- Signaling. J. F. Farrington. 1,738,235; Dec. 3.
- Signaling and indicating apparatus. B. Hocken. 1,723,420; Aug. 6.
- Signaling and remote control, Supervisory. C. B. Bartley and V. H. Dake. 1,739,055; Dec. 10.
- Signaling and train-stopping system, Railway. C. H. Lay. 1,718,568; June 25.
- Signaling apparatus. J. M. Roberts. 1,698,737; Jan. 15.
- Signaling apparatus. B. Rowntree. 1,710,192; Apr. 23.
- Signaling apparatus. R. T. Windle. 1,722,168; July 23.
- Signaling apparatus, Automatic. J. Gullong. 1,707,909; Apr. 2.
- Signaling apparatus, Electric. A. Lane. 1,733,543; Oct. 29.
- Signaling apparatus for automobiles and the like. A. Gabarini. 1,724,187; Aug. 13.
- Signaling apparatus for vehicles. V. L. Page. 1,713,052; May 14.
- Signaling apparatus, Intelligence. A. F. Bennett and C. R. Moore. 1,719,645; July 2.
- Signaling apparatus, Railway. H. A. Wallace. 1,703,128; Feb. 26.
- Signaling apparatus, Safety. T. J. Olson. 1,699,626; Jan. 22.
- Signaling apparatus, Traffic. T. A. Van Gundy. 1,726,784; Sept. 3.
- Signaling box. F. B. Philbrick and F. A. Raymond. 1,730,633; Oct. 8.
- Signaling circuits for receivers. S. P. Shackleton. 1,697,933; Jan. 8.
- Signaling controlled by mechanical vibrations, Electric. J. Gardner. 1,698,812; Jan. 15.
- Signaling device. J. B. Archibald. 1,715,265; May 28.
- Signaling device. W. E. Blechschmidt. 1,708,564; Apr. 9.
- Signaling device. N. J. Comerford. 1,711,775; May 7.
- Signaling device. J. L. MacCarthy. 1,735,403; Nov. 12.
- Signaling device. T. Otterness. 1,733,819; Oct. 29.
- Signaling device. B. Pasquarelli and G. N. Lusby. 1,715,673; June 4.
- Signaling device. E. B. Smith. 1,707,884; Apr. 2.
- Signaling device. W. Sparks. 1,719,789; July 2.
- Signaling device. W. Sparks, T. J. Scofield, F. W. Billig, and L. E. Johnson. 1,698,804; Jan. 15.
- Signaling device, Automobile. P. L. Franck. 1,699,287; Jan. 15.
- Signaling device, Automobile. H. J. Murray. 1,740,777; Dec. 24.
- Signaling device, Boy scout. H. C. Meyer. 1,729,890; Oct. 1.
- Signaling device for automobiles. E. Hoffman. 1,732,603; Oct. 22.
- Signaling device for automobiles, Electric. D. F. Murphy and L. Cotter. 1,729,591; Sept. 24.
- Signaling device for machines. H. Meurin. 1,700,068; Jan. 22.
- Signaling device for telegraph circuits, Selective. W. A. Dudley. 1,702,204; Feb. 12.
- Signaling device for use upon motor road vehicles. G. Chisholm. 1,716,421; June 11.
- Signaling device for vehicles. W. G. Krescy. 1,700,802; Feb. 5.
- Signaling device for vehicles. E. D. Sawyer. 1,717,629; June 18.
- Signaling device for vehicles, Direction-. C. Campbell. 1,736,485; Nov. 19.
- Signaling device, Intermittently-operated. L. A. Kille. 1,738,299; Dec. 3.
- Signaling device, Restaurant. K. F. Voss. 1,714,333; May 21.
- Signaling device, Traffic-. H. Alles. 1,708,349; Apr. 9.
- Signaling device, Traffic-. R. S. Pearson. 1,710,003; Apr. 23.
- Signaling device, Traffic-. J. W. Walter. 1,717,821; June 18.
- Signaling direction apparatus, Vehicle. J. W. Brenkert. 1,741,821; Dec. 31.
- Signaling, Electric. E. T. Burton. 1,708,934; Apr. 16.
- Signaling, Electric. W. A. Phelps. 1,717,062; June 11.
- Signaling, Electrical. A. C. Dickieson. 1,715,645; June 4.
- Signaling, High-frequency. B. W. Kendall. 1,734,132; Nov. 5.
- Signaling, High-frequency sound. I. B. Crandall and M. S. Estes. 1,708,938; Apr. 16.
- Signaling, indicating, stopping, and starting device. S. Halvorsen. 1,741,564; Dec. 31.
- Signaling indicator, Mixing-machine-control. J. F. Robb. 1,736,751; Nov. 19.
- Signaling letter-slot device for doors. E. B. McLaughlin. 1,716,558; June 11.
- Signaling mechanism. H. E. Reeve. 1,697,140; Jan. 1.
- Signaling mechanism. J. A. Wellington. 1,737,987; Dec. 3.
- Signaling mechanism, Auto. E. A. Hines. 1,697,841; Jan. 1.
- Signaling panel, Arm. H. M. Rasler. 1,737,022; Nov. 26.
- Signaling, Power-line. H. B. Arnold. 1,705,891; Mar. 19.
- Signaling, Power-line. L. W. Davee. 1,705,903; Mar. 19.
- Signaling, Railway. L. E. Spray. 1,709,888; Apr. 23.
- Signaling, Railway. P. Tätz. 1,708,524; Apr. 9.
- Signaling switch, Automobile. W. H. Kirby. 1,717,225; June 11.
- Signaling system. G. P. Adair. 1,739,340; Dec. 10.
- Signaling system. B. F. W. Alexanderson. 1,722,998; Aug. 6.
- Signaling system. W. C. Beach. 1,708,933; Apr. 16.
- Signaling system. O. L. Bickford and H. S. Denley. 1,716,204; June 4.
- Signaling system. J. Ehrlich. 1,731,243; Oct. 15.
- Signaling system. W. P. Fowler. 1,739,833; Dec. 17.
- Signaling system. V. M. Graham. 1,721,991; July 23.
- Signaling system. R. A. Heising. 1,712,993; May 14.
- Signaling system. F. A. Kolster. 1,737,089; Nov. 26.
- Signaling system. A. Le Bouillier. 1,720,738; July 16.
- Signaling system. C. R. Meissner. 1,733,617; Oct. 29.
- Signaling system. F. Mertz. 1,729,645; Oct. 1.
- Signaling system. L. F. Morehouse and E. F. Watson. 1,737,668; Dec. 3.
- Signaling system. H. Nyquist. 1,704,806; Mar. 12.
- Signaling system. H. M. Pruden. 1,711,651; May 7.
- Signaling system. J. B. Quick. 1,698,966; Jan. 15.
- Signaling system. T. U. White. 1,708,989; Apr. 16.
- Signaling system. T. U. White. 1,714,973; May 28.
- Signaling system. T. U. White and J. E. Gardner. 1,714,971-2; May 28.
- Signaling system. W. C. White. 1,728,816; Sept. 17.
- Signaling system, Alternating-current. F. E. Pernot. 1,707,814; Apr. 2.
- Signaling system and apparatus therefor, Electrical. W. B. Churcher. 1,726,423; Aug. 27.
- Signaling system and electron-tube circuits. P. Giroud. 1,732,044; Oct. 15.
- Signaling system and signaling. H. Chireix. 1,702,039; Feb. 12.
- Signaling system and signaling method, Electrical. A. N. Goldsmith and A. F. Van Dyck. 1,712,036; May 7.
- Signaling system, Automatic street. H. Garrett. 1,728,602; Sept. 17.
- Signaling system, Carrier-current. C. W. Green. 1,741,767; Dec. 31.
- Signaling system, Electric. G. P. Finnigan and T. W. Varley. 1,720,647; July 9.
- Signaling system, Electrical. F. Perdue. 1,708,430; Apr. 9.
- Signaling system, Electromagnetic wave. G. A. Campbell. 1,738,522; Dec. 10.
- Signaling system, Elevator. F. A. Boedtcher. 1,706,869; Mar. 26.
- Signaling system, Elevator. E. P. Butusov. 1,699,685; Jan. 22.
- Signaling system, Elevator. E. P. Butusov. 1,699,876; Jan. 22.
- Signaling system, Elevator-. R. H. Gaylord. 1,709,785; Apr. 16.
- Signaling, System for. R. A. Heising. 1,722,047; July 23.
- Signaling system for subscribers' telephone circuits. H. H. Abbott. 1,738,519; Dec. 10.
- Signaling system, High-frequency. L. F. Bird. 1,739,384; Dec. 10.
- Signaling system, High-frequency. I. F. Byrnes. 1,698,706; Jan. 8.
- Signaling system, High-frequency. E. F. Carter. 1,739,351; Dec. 10.
- Signaling system, High-frequency. E. Y. Robinson. 1,733,824; Oct. 29.
- Signaling system, Multiplex. J. S. Jammer. 1,709,076; Apr. 16.
- Signaling system, Railroad. J. J. Bednarski. 1,718,023; June 18.
- Signaling system, Railway. R. M. Gilson. 1,705,611; Mar. 19.
- Signaling system, Railway. L. O. Grondahl and P. N. Bossart. 1,730,135; Oct. 1.
- Signaling system, Railway. A. B. Hudd. 1,738,903; Dec. 10.
- Signaling system, Railway-. H. A. Thompson. 1,728,516; Sept. 17.
- Signaling system, Secret-. L. Espenschied and G. D. Gillett. 1,709,901; Apr. 23.
- Signaling system, Selective. F. A. Bennett. 1,712,725; May 14.
- Signaling system, Selective. S. J. Turreff. 1,735,189; Nov. 12.
- Signaling system, Superheterodyne. A. E. L. Scanes. 1,732,698; Oct. 22.
- Signaling system, Traffic-. J. J. Ruddick. 1,704,104; Mar. 5.
- Signaling system, Two-way. J. F. Farrington. 1,722,081; July 23.
- Signaling system, Wave. E. H. Armstrong. 1,716,573; June 11.
- Signaling system, Wave. W. A. MacDonald. 1,721,520; July 23.
- Signaling system, Wireless. H. W. Nichols. 1,706,311; Mar. 19.



- Signaling the projecting images on aerial craft. H. Junkers. 1,709,620; Apr. 16.
- Signals, Apparatus for the control of highway crossing. L. E. Spray. 1,698,459; Jan. 8.
- Signals by interference, Apparatus for concentrating audible. A. Blondel. 1,733,718; Oct. 29.
- Signals, Mechanism for controlling the transmission of. F. L. Mackenzie. 1,731,538; Oct. 15.
- Signature-detecting device. F. J. Greene. 1,716,773; June 11.
- Signature gathering and stitching machine. O. Kleinschmitt. 1,738,586; Dec. 10.
- Signature-gathering machine. P. A. Frazier. 1,738,180; Dec. 3.
- Silencer. R. B. Bourne. 1,720,507; July 9.
- Silencer. H. P. Maxim. Re17,299; May 21.
- Silencer. H. P. Maxim. 1,705,528; Mar. 19.
- Silencer. H. P. Maxim. 1,709,992; Apr. 23.
- Silencer. H. P. Maxim. 1,736,319; Nov. 19.
- Silencer. H. P. Maxim and R. B. Bourne. 1,732,943; Oct. 22.
- Silencer. J. G. Reichert. 1,725,884; Aug. 27.
- Silencer for internal-combustion engines. F. X. Bernet and P. J. Luthy. 1,700,993; Feb. 5.
- Silica, Apparatus for shaping. H. P. Hollnagel. 1,734,904; Nov. 5.
- Silicate and preparing the same, Base-exchange. R. O. Friend and E. M. Partridge. 1,720,074; July 9.
- Silk and artificial silk, Mixing. M. F. Thoma. 1,722,829; July 30.
- Silk and like threads, Process and apparatus for the manufacture of artificial. C. W. Palmer and W. Whitehead. 1,731,317; Oct. 15.
- Silk and other filaments by applying electric current, Manufacturing artificial. K. Hagiwara. 1,699,615; Jan. 22.
- Silk and the like, Manufacturing artificial. H. P. Bassett and T. F. Banigan. 1,736,280; Nov. 19.
- Silk, Apparatus for producing artificial. E. Berl. 1,707,595; Apr. 2.
- Silk filament and making same, Artificial. J. A. Singmaster. 1,725,742; Aug. 20.
- Silk floss, Artificial. A. B. Collingbourne. 1,699,879; Jan. 22.
- Silk manufactured by the can spinning process, Treating cakes of artificial. H. Küttner. 1,708,583; Apr. 9.
- Silk, Manufacturing dyed artificial. H. J. Janssen. 1,739,475; Dec. 10.
- Silk-reeling apparatus. J. A. Scheibl. 1,734,305; Nov. 5.
- Silk threads, Liquidation of natural. T. Muto and S. Hida. 1,714,039; May 21.
- Silk, yarn, cotton, and other threads, Apparatus for softening. H. Mayer. 1,736,543; Nov. 19.
- Sill, Side. W. E. Wine. 1,703,804; Feb. 26.
- Sill, Vehicle frame. H. Walker. 1,698,179; Jan. 8.
- Silo. W. Bayley. 1,718,519; June 25.
- Silo. W. Bayley. 1,718,729; June 25.
- Silo and stave therefor. S. T. Playford. 1,705,338; Mar. 12.
- Silo attachment. E. M., sr., W. S. S., and E. M., jr., Kutz. 1,740,250; Dec. 17.
- Silo liner. C. W. Stitt and J. I. Jensen. 1,711,184; Apr. 30.
- Silver alloy, etc., and producing the same, Tarnish-resisting. D. Gray, R. O. Bailey, and W. S. Murray. 1,720,894; July 16.
- Silver and silver plate and producing the same, Tarnish-resisting. D. Gray, R. O. Bailey, and W. S. Murray. 1,719,865; July 2.
- Silver and silver plate, Producing tarnish-resisting. D. Gray, R. O. Bailey, and W. S. Murray. 1,720,215; July 9.
- Silver halide photographic emulsion and making the same. J. Reistötter. 1,725,934; Aug. 27.
- Silver plate and producing same, Tarnish-resisting. D. Gray, R. O. Bailey, and W. S. Murray. 1,720,216; July 9.
- Simultaneously signaling all subscribers of carrier telegraph systems. H. A. Affel, B. P. Hamilton, V. P. Thorp, and R. H. Clapp. 1,704,780; Mar. 12.
- Singeing and warping machine. J. J. Caldwell and D. Gravel. 1,722,895; July 30.
- Singeing apparatus. A. N. Otis. 1,701,333; Feb. 5.
- Singeing hair, Apparatus for. L. T. Welden. 1,720,775; July 16.
- Singeing machine, Electric. T. Murali, I. Saeki, and H. Sato. 1,740,776; Dec. 24.
- Singeing warping machine. D. Gravel. 1,722,910; July 30.
- Single-phase motor. E. C. Ballman. 1,725,558; Aug. 20.
- Single-roll wet mill. H. Drysdale. 1,713,270; May 14.
- Singletree. M. S. Blackburn. 1,697,901; Jan. 8.
- Single-use tube. J. E. Turner. 1,719,736; July 2.
- Sink. C. B. Crane, 2d, and R. H. Zinkil. Des. 80,218; Dec. 31.
- Sink. H. Gotfredson. Des. 79,290-1; Aug. 27.
- Sink and porcelain element for kitchen cabinets and kitchen units. J. M. Coulter. 1,727,159; Sept. 3.
- Sink fixture. M. J. Glauber. 1,730,455; Oct. 8.
- Sink pad. J. Elovson. 1,718,126; June 18.
- Sintering apparatus. E. E. Ellis. 1,737,007; Nov. 26.
- Sintering machine. J. R. Linney. 1,741,943-4; Dec. 31.
- Siphon. R. Black. 1,703,469; Feb. 26.
- Siphon and making same, Thermic. W. H. Hinsch and G. J. Christenson. 1,717,033; June 11.
- Siphon control for washers. T. L. Taylor. 1,721,797; July 23.
- Siphon device, Detachable. C. B. Lewis and F. W. Vogel. 1,711,537; May 7.
- Siphon device for steam drums, Rotary. H. R. Ritchie. 1,715,677; June 4.
- Siphon for decanting liquids. O. Peters. 1,715,470; June 4.
- Siphon head with bayonet joint. S., jr., and E. Süss. 1,717,277; June 11.
- Siphon, Self-acting. W. Heyn. 1,727,828; Sept. 10.
- Siphoning device. F. H. Huntworth. 1,731,899; Oct. 15.
- Siphons, Repairing. J. L. Nicholson. 1,704,144-5; Mar. 5.
- Siren. T. E. Braley. 1,718,405; June 25.
- Siren, Electric. L. H. Miles. 1,739,727; Dec. 17.
- Sirup can. J. B. Benge. Des. 78,139; Apr. 2.
- Sirup-charging apparatus. C. H. Miller. 1,711,361; Apr. 30.
- 6-alkoxy-8-aminoquinolines, Manufacture of. W. Schulemann, F. Schönhofer, and A. Wingler. 1,728,189; Sept. 17.
- 6-alkoxy-8-aminoquinolines, New. W. Schulemann, F. Schönhofer, and F. Mietzsch. 1,703,365; Feb. 26.
- Sizing and grading machine, Fruit and vegetable. A. O. Moe. 1,725,665; Aug. 20.
- Sizing machine. E. A. White. 1,710,199; Apr. 23.
- Sizing textile fibers or threads, Apparatus for. C. F. Topham. 1,702,140; Feb. 12.
- Skate. T. Kolbeinson. 1,716,231; June 4.
- Skate. C. H. Oestrick. 1,726,579; Sept. 3.
- Skate. W. F. Reach. 1,737,175; Nov. 26.
- Skate. H. L. Ridgers. 1,702,316; Feb. 19.
- Skate and scooter, Combined roller. F. D. James. 1,728,063; Sept. 10.
- Skate, Ice. C. H. Hoult. 1,702,695; Feb. 19.
- Skate machine. H. B. Taylor. 1,706,828; Mar. 26.
- Skate machine. H. B. Taylor. 1,707,196; Mar. 26.
- Skate, Roller. P. O. Gibson. 1,711,451; Apr. 30.
- Skate, Roller. R. M. Grinnen. 1,733,059; Oct. 22.
- Skate, Roller. E. Jervoise. 1,703,936; Mar. 5.
- Skate, Roller. G. Katuby. 1,700,058; Jan. 22.
- Skate, Roller. H. Sahlmann. 1,728,629; Sept. 17.
- Skate scabbard. E. B. Nathan. 1,725,821; Aug. 27.
- Skate-sharpening device. P. C. Stevens. 1,722,400; July 30.
- Skate wheel. S. I. Berger. 1,717,910; June 18.
- Skate wheel. A. H. Fritz and E. J. Pardon. 1,739,474; Dec. 10.
- Skates, Apparatus for hardening the runners of ice. H. Dornseif. 1,711,633; May 7.
- Skeining reel. D. C. Thompson. 1,715,315; May 28.
- Skeleton for disk-record ejectors. E. H. Fairbanks. 1,701,479; Feb. 5.
- Ski tie. B. With. 1,702,330; Feb. 19.
- Ski, Water. A. H. Echola. 1,714,352; May 21.
- Skid. A. W. Ferguson. 1,699,882; Jan. 22.
- Skid. G. F. Grimm. 1,734,373; Nov. 5.
- Skid. C. H. Young. 1,715,403; June 4.
- Skid prevention for automobiles. F. Dodge. 1,739,713; Dec. 17.
- Skimmer attachment for excavators. G. T. Ronk. 1,708,281; Apr. 9.
- Skin cleanser, Vacuum. F. J. Naibert. 1,732,310; Oct. 22.
- Skins for fur coats, Manufacture of. B. Greenberg and M. Tarnoff. 1,724,192; Aug. 13.
- Skip-controlling mechanism, Automatic. C. H. Wagner. 1,732,198; Oct. 15.
- Skip-elevating mechanism. G. E. Webb. 1,711,510; May 7.
- Skip for raising and stacking bricks. A. Moir. 1,725,471; Aug. 20.
- Skip-loading gate. A. Allen and D. F. Lepley. 1,716,289; June 4.
- Skirt. P. Golinko. Des. 77,404; Jan. 8.
- Skis, Device for steering. G. Fröholm. 1,723,693; Aug. 6.
- Skis, Toe piece for. C. A. Proctor. 1,735,359; Nov. 12.
- Skiving appliance, Strip-. F. C. Redman and H. N. Colman. 1,704,212; Mar. 5.
- Skiving machine. F. M. Furber. 1,706,485; Mar. 26.
- Skiving machine. F. W. Gibson. 1,723,233; Aug. 6.
- Skiving machine. E. E. Lane. 1,713,540; May 21.
- Skiving machine. A. R. Riderstrom. 1,721,046-53; July 16.
- Skiving machine. F. L. Wilbur. 1,727,683; Sept. 10.
- Skull for animals' heads and making same. J. Bernstein. 1,724,744; Aug. 13.
- Skull-removing apparatus. M. J. Nemes. 1,712,837; May 14.
- Skylight. E. L. De Hart. 1,732,435; Oct. 22.
- Skylight. S. M. Dickson. 1,707,798; Apr. 2.
- Skylight. S. Volk. 1,734,840; Nov. 5.
- Skylight construction. A. Shuman. 1,740,749; Dec. 24.
- Skylight operator. B. P. Blaski. 1,724,123; Aug. 13.
- Skylight structure. W. F. Other. 1,720,686; July 16.
- Sky writing. R. D. Bailey and D. Bailey. 1,736,516; Nov. 19.
- Slab cutter. S. F. Anderson. 1,736,992; Nov. 26.
- Slab for tables and the like. C. W. Caldwell. 1,708,080; Apr. 9.
- Slab reinforcement. W. E. White. 1,720,193; July 9.
- Slack adjuster. C. B. Alexander. 1,725,748; Aug. 27.
- Slack adjuster. C. C. Farmer. 1,700,835; Feb. 5.
- Slack adjuster. W. H. Sauvage. 1,723,527; Aug. 6.
- Slack adjuster. W. H. Sauvage. 1,739,694; Dec. 17.



- Slack adjuster. W. H. Sauvage. 1,741,739; Dec. 31.  
 Slack adjuster, Automatic. A. E. Osborn. 1,720,091; July 9.  
 Slack adjuster, Hydraulic. L. W. Shotts. 1,727,790; Sept. 10.  
 Slack-take-up device. B. H. Floyd. 1,727,009; Sept. 3.  
 Slat-fence machine. J. W. Denning. 1,709,465; Apr. 16.  
 Slat shaker. E. G. Cobelli. 1,718,684; June 25.  
 Slat-trimming machine. O. F. Chichester and J. J. Sylva. 1,705,808; Mar. 19.  
 Slate, Memorandum. H. G. Cress. Des. 79,789; Nov. 5.  
 Sled. J. E. Blake. 1,742,127; Dec. 31.  
 Sled. L. W. Dunn. 1,706,568; Mar. 26.  
 Sled. W. H. Elfleth. 1,711,017; Apr. 30.  
 Sled. G. A. Harden. 1,730,072; Oct. 1.  
 Sled. T. B. Jorgensen. 1,718,787; June 25.  
 Sled. G. L. Kier. 1,711,171; Apr. 30.  
 Sled. F. Michilli. 1,722,012; July 23.  
 Sled brake. C. I. Taylor. 1,726,005; Aug. 27.  
 Sled, Convertible. C. L. Fairfax. 1,723,341; Aug. 6.  
 Sled, Foldable. F. Cuénot. 1,715,817; June 4.  
 Sled, Push. M. O. Carlson. 1,700,997; Feb. 5.  
 Sleds, Back rest for. G. L. Kier and D. R. Richie. 1,714,093; May 21.  
 Sleeper of armored concrete, Traverse. C. Lössl. 1,699,197; Jan. 15.  
 Sleeping bag. W. Ellery. 1,704,182; Mar. 5.  
 Sleeping bag. J. G. Leibold. 1,699,002; Jan. 15.  
 Sleeping bag. L. Mettman. 1,701,929; Feb. 12.  
 Sleeve-valve engine. W. Waddell. 1,739,273; Dec. 10.  
 Sleeves of garments, Constructing the. V. Maronna. 1,739,797; Dec. 17.  
 Sleigh and boat, Combined. C. M. Ingram. 1,716,230; June 4.  
 Sleigh attachment for motor vehicles. W. S. Nickerson. 1,701,212; Feb. 5.  
 Sleigh, Motor. P. A. Prior. 1,697,693; Jan. 1.  
 Slicer. W. E. Moll. 1,719,018; July 2.  
 Slicer and container, Sanitary bread. E. Craft. 1,708,719; Apr. 9.  
 Slicer, Automatic cheese. B. E. G. Noble. 1,708,771; Apr. 9.  
 Slicer, Bacon. M. Trunz. 1,728,843; Sept. 17.  
 Slicer, Bread. C. Wurttemberg. 1,708,821; Apr. 9.  
 Slicer of the drum type, Beet. A. Maguin. 1,707,090; Mar. 26.  
 Slicer or the like, Potato. C. J. Froehle. 1,741,764; Dec. 31.  
 Slicer, Vegetable. A. Lanzkron. 1,703,154; Feb. 26.  
 Slicing device. F. P. Gracey. 1,732,045; Oct. 15.  
 Slicing device. W. Meier. 1,729,624; Oct. 1.  
 Slicing machine. W. J. Campbell. Re17,475; Oct. 29.  
 Slicing machine. W. J. Campbell. 1,698,874-5; Jan. 15.  
 Slicing machine. W. J. Campbell. 1,707,654; Apr. 2.  
 Slicing machine. W. J. Campbell. 1,716,416; June 11.  
 Slicing machine. W. J. Campbell. 1,720,205; July 9.  
 Slicing machine. W. J. Campbell. 1,739,490; Dec. 10.  
 Slicing machine. T. Lanie. 1,728,865; Sept. 17.  
 Slicing machine. J. C. Steiner. 1,742,105; Dec. 31.  
 Slicing machine. H. Thomas. 1,702,064; Feb. 12.  
 Slicing machine. R. Ulbrecht. 1,735,818; Nov. 12.  
 Slicing machine. J. C. van Berkel. 1,713,936; May 21.  
 Slicing machine. C. F. M. van Berkel. 1,716,153; June 4.  
 Slicing machine. J. S. Velthoen. 1,710,907; Apr. 30.  
 Slicing machine. W. B. Wolff. 1,698,868-9; Jan. 15.  
 Slicing machine. W. B. Wolff. 1,707,701; Apr. 2.  
 Slicing machine, Cheese. C. H. Parsons. 1,702,879; Feb. 19.  
 Slicing machine, Fish. C. Meissner and H. Hunt. 1,709,362; Apr. 16.  
 Slicing machine for slicing meat or the like. C. F. M. van Berkel. 1,739,697; Dec. 17.  
 Slicing machine, Vegetable. N. H. McFarland. 1,740,472; Dec. 24.  
 Slicing machines, Driving mechanism for. W. Rienks. 1,710,896; Apr. 30.  
 Slicing machines, Feed mechanism for. C. F. M. van Berkel. 1,723,669; Aug. 6.  
 Slicing machines, Feed mechanism for use with. E. Coulson. 1,742,060; Dec. 31.  
 Slicing machines, Meat-clamping means for. E. Coulson. 1,742,059; Dec. 31.  
 Slicking machine. W. C. Wright. 1,740,434; Dec. 17.  
 Slide. A. C. Eckert and G. F. Brecht. 1,708,470; Apr. 9.  
 Slide-box shell machine. O. W. Cowgill. 1,707,712; Apr. 2.  
 Slide, Child's. M. G. Hilpert. 1,699,065-6; Jan. 15.  
 Slide mat. H. H. Hargrave. 1,698,093; Jan. 8.  
 Slide, Stud. D. I. Reiter. 1,734,048; Nov. 5.  
 Slider for separable fasteners. G. E. Prentice. 1,700,514; Jan. 29.  
 Sliding register. J. V. Petrelli. 1,740,626; Dec. 24.  
 Slimes derived from wet washing of gas for sintering, Preparing. A. J. Boynton. 1,738,940; Dec. 10.  
 Sling. S. M. Meagher. 1,699,114; Jan. 15.  
 Slip. W. G. Christian. 1,721,689; July 23.  
 Slip. B. A. Sebring and M. Bailey. 1,710,273; Apr. 23.  
 Slip coupling, Automatic. L. Ferenci. 1,710,694; Apr. 30.  
 Slip-on cover. F. D. Coppock. 1,701,441; Feb. 5.  
 Slip sheeter, Reversible. V. R. Shattuck. 1,732,384; Oct. 22.  
 Slip-sheeting machine. H. Marrodt. 1,720,845; July 16.  
 Slipper. P. E. Blum. Des. 77,932; Mar. 12.  
 Slipper. M. A. Hohenstein. 1,735,434; Nov. 12.  
 Slipper and making same. J. T. Callahan. 1,724,450; Aug. 13.  
 Slipper body. H. Wilhelm. Des. 77,448; Jan. 8.  
 Slipper, Forming a. J. Koller. 1,731,536; Oct. 15.  
 Slipper insert. A. Carlson. 1,712,420; May 7.  
 Slipper or analogous article. I. Berman. Des. 78,327; Apr. 23.  
 Slipper, Toe and ballet. S. Capezio. 1,704,281; Mar. 5.  
 Slippers, Tip for toe-dancing. M. L. Bunnell. 1,717,659; June 18.  
 Slitter cutter. A. D. Sumner. 1,727,796; Sept. 10.  
 Slitting attachment. C. W. Harrold. 1,730,006; Oct. 1.  
 Slitting blanks for expanded load-bearing members. W. H. Kloeke. 1,699,846; Jan. 22.  
 Slitting machine. J. A. Cameron and R. McC. Johnstone. 1,738,353; Dec. 3.  
 Slitting machine. F. W. Lodding. 1,731,902; Oct. 15.  
 Slotting machine. J. R. Parker. 1,712,580; May 14.  
 Slow-down delivery. A. M. Zuckerman. 1,713,016; May 14.  
 Slub catcher. A. A. Maino, and A. Norlander. 1,716,452; June 11.  
 Slub catcher. J. O. McKean. 1,734,590; Nov. 5.  
 Slub catcher for spoolers. A. Linderson. 1,700,704; Jan. 29.  
 Sludge-collecting device. W. L. D'Olier. 1,717,764; June 13.  
 Sludge-digesting apparatus. J. R. Downes. 1,717,100; June 11.  
 Sludge system for sewage treatment, Subdivided activated. K. Imhoff. 1,717,780; June 18.  
 Slug-cutting machine. V. V. Messer. 1,724,358; Aug. 13.  
 Slug detector. J. H. Gieske. 1,732,161; Oct. 15.  
 Slug eliminator. L. Giles. 1,730,339; Oct. 1.  
 Slug for use in extrusion operations and methods of extrusion. R. S. Dean. 1,720,722; July 16.  
 Slug magazine for extruding machines. F. J. Lynch. 1,699,504; Jan. 15.  
 Sluice gate. F. W. Ely. 1,706,219; Mar. 19.  
 Smelting furnace. H. L. Charles. 1,724,340; Aug. 13.  
 Smelting furnace. A. Jones. 1,712,769; May 14.  
 Smelting furnace. C. H. Mace. 1,724,490; Aug. 13.  
 Smelting of tungsten ores. F. M. Becket. 1,705,655; Mar. 19.  
 Smelting ores in reverberatory furnaces. G. W. Prince. 1,700,515; Jan. 29.  
 Smelting zinc ores, Apparatus for and process of. R. L. Lloyd. 1,709,135; Apr. 16.  
 Smoke and the like, Device for the production of. E. Rademacher. 1,736,091; Nov. 19.  
 Smoke box of locomotives. G. T. Foster. 1,721,212; July 16.  
 Smoke clouds, Producing colored. J. C. Savage. 1,716,797; June 11.  
 Smoke constituents and the product thereof, Collecting and utilizing. J. N. Alsop. 1,719,354; July 2.  
 Smoke consumer. J. Brdar. 1,699,424; Jan. 15.  
 Smoke-consuming and fuel-saving construction. J. Holes. 1,711,786; May 7.  
 Smoke-exhaust apparatus. L. L. Kelly. 1,726,901; Sept. 3.  
 Smokehouse. L. Brand. 1,704,650; Mar. 5.  
 Smokehouse. M. Rind. 1,715,625; June 4.  
 Smoke-inspecting device. R. H. Wager. 1,708,986; Apr. 16.  
 Smoke-inspection device. R. H. Wager. 1,708,987; Apr. 16.  
 Smokejack. H. L. Currie. 1,712,422; May 7.  
 Smoke, Method of and apparatus for making. J. N. Alsop. 1,698,749; Jan. 15.  
 Smoke-preventing device for boilers and furnaces. T. D. Casserly. 1,699,832; Jan. 22.  
 Smoke producer. A. R. Smith. 1,713,055-6; May 14.  
 Smoke washer. W. W. Robinson. Re17,368; July 9.  
 Smoker's article. K. W. Cannon and F. G. E. Lange. 1,705,898; Mar. 19.  
 Smoker's combination. A. Victor. 1,717,320; June 11.  
 Smoker's outfit. A. W. Keffer. 1,739,239; Dec. 10.  
 Smoker's petrol lighter. F. C. Wise and W. Greenwood. 1,698,043; Jan. 8.  
 Smoker's pipe. C. C. English and C. R. Mains. 1,727,028; Sept. 3.  
 Smoker's pipe. A. Torrese. 1,710,440; Apr. 23.  
 Smoker's pipes, Device for breaking in. L. E. Churchill. 1,740,334; Dec. 17.  
 Smoker's set. F. C. Copeland. Des. 77,353; Jan. 1.  
 Smoker's set, Combined. J. E. Neahr. Des. 77,496; Jan. 15.  
 Smoker's stand. R. N. Baylis. Des. 78,726; June 18.  
 Smoker's stand. J. J. Braz. 1,722,729; July 30.  
 Smoker's stand. J. Cook. Des. 79,880; Nov. 12.  
 Smoker's stand. A. C. Scharff. Des. 79,442; Sept. 17.  
 Smoker's stand and set, Combined. G. E. Schneider and B. W. Dailey. Des. 79,391; Sept. 10.  
 Smoker's utensil. S. M. McCurdy. 1,727,351; Sept. 10.  
 Smoking and vanity case for an automotive vehicle, Combined. W. Schnell. Des. 80,054; Dec. 3.  
 Smoking article. E. M. Harris. 1,726,737; Sept. 3.  
 Smoking implement. E. Caldwell. 1,706,398; Mar. 26.  
 Smoking pipe. J. Gevirmann. 1,727,763; Sept. 10.  
 Smoking pipe. F. L. Hemmer. 1,714,559; May 28.  
 Smoking pipe. G. T. Ivory. 1,712,998; May 14.  
 Smoking pipe. R. J. Monette. 1,725,366; Aug. 20.  
 Smoking pipe. F. Visintainer. 1,697,034; Jan. 1.  
 Smoking pipe. K. M. West. 1,711,435; Apr. 30.  
 Smoking pipe. P. J. Whelan. 1,713,204; May 14.  
 Smoking stand. Z. Chaplick. Des. 79,324; Sept. 3.



- Smoking stand. E. E. Ekvall. Des. 79,793; Nov. 5.  
 Smoking stand. W. B. Gilbert. Des. 79,711; Oct. 29.  
 Smoking stand. C. A. Bunker. 1,735,671; Nov. 12.  
 Smoking stand. A. von Frankenberg. Des. 80,059; Dec. 3.  
 Smoking stand, Head for a. E. E. Ekvall. Des. 78,348; Apr. 23.  
 Smoothing device for impression blankets. O. C. Roosen. 1,726,769; Sept. 3.  
 Snap-action mechanism. G. A. Knaak. Re17,304; May 28.  
 Snap catch for triple-frame bags. W. C. Hiebing. 1,703,425; Feb. 26.  
 Snap connection. T. E. Jones. 1,719,662; July 2.  
 Snap-over switch. Float-operated. L. M. Persons. 1,710,005; Apr. 23.  
 Snap switch. D. D. Gordon. 1,700,842; Feb. 5.  
 Snap switch. C. E. Hannay. 1,740,861; Dec. 24.  
 Snap switch. S. A. Meyers. Re17,493; Nov. 19.  
 Snap switch, Electric. W. F. Lloyd. 1,705,774; Mar. 19.  
 Snap switch, Two-circuit master electroliner indicating. W. G. Grover. 1,714,020; May 21.  
 Snare. J. Kleffman. Re17,534; Dec. 24.  
 Snare. R. L. Gow. 1,716,631; June 11.  
 Snare. J. Kleffman. 1,718,908; June 25.  
 Snare. J. Kleffman. 1,731,381; Oct. 15.  
 Snare. J. Kleffman. 1,733,461; Oct. 29.  
 Snare. J. Kleffman. 1,738,907; Dec. 10.  
 Snare attachment. H. A. Bower. 1,709,165; Apr. 16.  
 Snatch block. N. M. Erdahl. 1,736,193; Nov. 19.  
 Snipping machine. H. D. Elliott. 1,705,605; Mar. 19.  
 Snow, Apparatus for handling. D. B. Cook. 1,703,376; Apr. 9.  
 Snow cleaning and melting machine, Automatic. B. Kaczorowski. 1,718,360; June 25.  
 Snow guard. B. A. Hudson. 1,732,936; Oct. 22.  
 Snow-handling machine. A. W. Swanson. 1,716,390; June 11.  
 Snow loading and disposal machine. T. J. Shrul. 1,706,144; Mar. 19.  
 Snow melter. L. W. Browne and A. W. Schneider. 1,728,525; Sept. 17.  
 Snowplow. G. C. Abbe. 1,703,088; Feb. 26.  
 Snowplow. G. C. Abbe. 1,708,042; Apr. 9.  
 Snowplow. L. B. Angell. 1,698,809; Jan. 15.  
 Snowplow. J. Barry. 1,701,767; Feb. 12.  
 Snowplow. F. M. Becker. 1,705,389; Mar. 12.  
 Snowplow. J. M. Bising. 1,711,488; May 7.  
 Snowplow. J. M. Bising. 1,728,032; Sept. 10.  
 Snowplow. R. E. Choate. 1,739,352; Dec. 10.  
 Snowplow. D. B. Cook. 1,701,746; Feb. 12.  
 Snowplow. R. D. Edwards. 1,719,323; July 2.  
 Snowplow. J. D. Glaicar and A. E. Ziegler. 1,701,708; Feb. 12.  
 Snowplow. K. S. G. Gyllenkrook. 1,730,817; Oct. 8.  
 Snowplow. A. C. Heinzen. 1,704,475; Mar. 5.  
 Snowplow. L. R. Liddell. 1,703,740; Feb. 26.  
 Snowplow. H. H. Linn. 1,701,979; Feb. 12.  
 Snowplow. J. A. Litt. 1,712,891; May 14.  
 Snowplow. R. Maust. 1,724,494; Aug. 13.  
 Snowplow. L. Messlin. 1,701,787; Feb. 12.  
 Snowplow. H. J. Pils. 1,704,016; Mar. 5.  
 Snowplow. E. Rosenberger. 1,724,316; Aug. 13.  
 Snowplow. F. O. Snow, Jr. 1,721,262; July 16.  
 Snowplow. G. N. Spiess. 1,697,697; Jan. 1.  
 Snowplow. J. W. Van Patten. 1,718,094; June 18.  
 Snowplow. C. S. Webster. 1,727,186; Sept. 3.  
 Snowplow. J. H. Wertzley. 1,713,458; May 14.  
 Snowplow. B. W. Wolters. 1,709,243; Apr. 16.  
 Snowplow. D. Zinn. 1,698,901; Jan. 15.  
 Snowplow and sweeper, Combination. T. E. Dagel. 1,741,360; Dec. 31.  
 Snowplow, Automobile. J. Hojnowski. 1,728,761; Sept. 17.  
 Snowplow, Locomotive. W. E. Woodard. 1,734,662; Nov. 5.  
 Snowplow, Motor-driven. J. M. Green and C. J. Kjenstad. 1,707,908; Apr. 2.  
 Snowplow, Rotary. E. M. Bassler. 1,724,692; Aug. 13.  
 Snowplow, Tractor. R. S. Pellette. 1,704,923; Mar. 12.  
 Snowplow, Tractor-driven. V. P. Marran. 1,717,571; June 18.  
 Snow remover. H. D. Curtis. Re17,297; May 21.  
 Snow remover. H. D. Curtis. Re17,498; Nov. 19.  
 Snow-removing apparatus. D. Fasul. 1,722,843; July 30.  
 Snow-removing apparatus, Power-driven. F. O. Snow, Jr. 1,707,202; Mar. 26.  
 Snow-removing machine. G. A. Gullberg. 1,703,619; Feb. 26.  
 Snow-removing machine. A. Sicard. 1,703,786; Feb. 26.  
 Snow-removing machine. S. Sidella. 1,739,331; Dec. 10.  
 Snow scraper. R. Homan. 1,719,886; July 9.  
 Snow screen. L. C. Reis. 1,738,843; Dec. 10.  
 Snowshoe, Motor-vehicle. W. J. Heinzel. 1,699,430; Jan. 15.  
 Snubber. B. B. Holmes. 1,740,460; Dec. 24.  
 Snubber, Attachment-plug-cap. R. H. Cunningham. 1,721,207; July 16.  
 Snubber for automobiles. R. L. Haynes. 1,734,806; Nov. 5.  
 Snubber for concrete-mixer skips. A. W. Rybeck. 1,740,786; Dec. 24.  
 Snubber for motor-vehicle springs. J. T. Longwell. 1,736,410; Nov. 19.  
 Snubbing device. L. W. Searles. 1,705,828; Mar. 19.  
 Snubbing device for automobile springs. H. T. Hughes. 1,717,978; June 18.  
 Snuffer. D. E. Eilar. 1,700,564; Jan. 29.  
 Soaking-drum apparatus. H. H. Hewetson. 1,707,520; Apr. 2.  
 Soaking pit. H. C. Ryding. 1,719,452-3; July 2.  
 Soap. O. H. Carlson. 1,705,852; Mar. 19.  
 Soap. H. E. Crocco. 1,733,150; Oct. 29.  
 Soap. P. H. Todd. 1,731,551; Oct. 15.  
 Soap, Apparatus for treating. O. H. Wurster. 1,733,213; Oct. 29.  
 Soap bar. R. B. Doph. Des. 79,704; Oct. 29.  
 Soap, Cake of. A. Mosheim. Dec. 80,240; Dec. 31.  
 Soap case. K. Kodama. 1,706,788; Mar. 26.  
 Soap chipper. J. A. Woodward and L. M. Greany. 1,714,413; May 21.  
 Soap cup. Porcelain or enamel-iron. P. Mueller. 1,701,690; Feb. 12.  
 Soap-dispensing apparatus. L. Kooperstein. 1,699,364; Jan. 15.  
 Soap flakes. B. W. Coltman. 1,718,778; June 25.  
 Soap from its container, Removing. H. Fischer. 1,729,068; Sept. 24.  
 Soap leaf. T. Kuroda. 1,723,560; Aug. 6.  
 Soap, Manufacture and production of. A. E. Hatfield and E. A. Allott. 1,728,342; Sept. 17.  
 Soap, Manufacture of. E. Flammer and C. Kelber. 1,715,999-1,716,000; June 4.  
 Soap, Manufacture of. E. Flammer and C. Kelber. 1,717,553; June 18.  
 Soap, Manufacture of soft. L. G. Leffer. 1,710,799; Apr. 30.  
 Soap, Obtaining. G. Petroff. 1,732,656; Oct. 22.  
 Soap paste, Composition of. J. M. Weiss. 1,709,294; Apr. 16.  
 Soap powder, Process and apparatus for making. O. H. Wurster. 1,732,454; Oct. 22.  
 Soap preparation. F. Günther and J. Nüsslein. 1,730,037; Oct. 1.  
 Soap, Producing. A. Welter. 1,719,349; July 2.  
 Soaps from low-grade fats, Manufacture of high-grade. J. Starrels. 1,701,703; Feb. 12.  
 Soaps from sulphated mineral-oil acid sludge and making same. O. E. Cushman and T. W. Doell. 1,718,335; June 25.  
 Sock, Orthopedic. W. M. Scholl. 1,741,340; Dec. 31.  
 Sock, Woman's. F. L. Le Veque. Des. 80,128-30; Dec. 17.  
 Socks. C. Loven. 1,726,441; Aug. 27.  
 Socks, Man's. M. Synovetz. 1,733,761; Oct. 29.  
 Socket. H. A. Bremer. 1,741,221; Dec. 31.  
 Socket. M. B. Grout. 1,726,179; Aug. 27.  
 Socket. E. Pasucci. 1,721,971; July 23.  
 Socket and blade. J. Chipman and W. Clayton. 1,703,923; Mar. 5.  
 Socket and caster. W. H. Noetting. 1,710,105; Apr. 23.  
 Socket and chain grip, Standard mounting. R. A. Bartlett. 1,727,461; Sept. 10.  
 Socket and grip, Lamp. W. A. Wulle. 1,738,341; Dec. 3.  
 Socket and protector, Handle. J. H. Wilson. 1,739,700; Dec. 17.  
 Socket and reflector. L. L. Raymond. 1,735,180; Nov. 12.  
 Socket arm for light-reflecting shades. M. B. Bowen. 1,713,509; May 21.  
 Socket, Base. L. W. Chubb. 1,707,252; Apr. 2.  
 Socket, Bit. S. R. Audibert. 1,723,717; Aug. 6.  
 Socket, bracket, Caster. J. A. Johnson. 1,717,883; June 18.  
 Socket, Cable. J. S. Fox. 1,723,728; Aug. 6.  
 Socket-cap cord connection. H. T. Faiste. 1,703,046; Feb. 19.  
 Socket-cap remover. E. R. Jones. 1,715,089; May 28.  
 Socket casing. E. J. Curren. 1,728,666; Sept. 17.  
 Socket device for vacuum tubes. F. Reutter. 1,711,655; May 7.  
 Socket, Electric. H. Shapiro. 1,733,470; Oct. 29.  
 Socket, Electric. L. Smith and J. W. Scott. 1,710,717; Apr. 30.  
 Socket, Electric-lamp. R. Eckstein. 1,734,162; Nov. 5.  
 Socket, Electric-lamp. A. H. Nero. 1,719,779; July 2.  
 Socket, Electric-lamp. L. Mayer. 1,702,655; Feb. 19.  
 Socket, Electric-lamp. E. W. Zwetsch. 1,721,365; July 16.  
 Socket, Electric-light. B. F. Muldoon. Des. 80,102; Dec. 10.  
 Socket, Electric-light. D. G. Stoddard. 1,705,075; Mar. 12.  
 Socket, Electric-lighting. E. F. Guth. 1,722,743; July 30.  
 Socket, Electric-sign. F. D. Pitt. 1,728,251; Sept. 17.  
 Socket, Electron-discharge-tube. C. Hardy. 1,712,212; May 7.  
 Socket, Electron-tube. W. M. Brower. 1,739,748; Dec. 17.  
 Socket, Floating. H. E. Peers. 1,715,618; June 4.  
 Socket, Floating tube. O. Adler. 1,709,452; Apr. 16.  
 Socket for anchor bolts, Insert. H. A. Selah. 1,705,739; Mar. 19.  
 Socket for audion tubes. C. R. Krone. 1,702,122; Feb. 12.  
 Socket for electric lamps. L. Ludwig. 1,733,743; Oct. 29.  
 Socket for electric-light globes. W. E. Grant and M. B. Bean. 1,700,538; Jan. 29.  
 Socket for electric plugs, Connector. T. C. Smith. 1,738,970; Dec. 10.  
 Socket for vacuum tubes, Shock-absorbing. R. B. Benjamin. 1,730,344; Oct. 8.  
 Socket, Handle. C. F. Smith. 1,734,503; Nov. 5.  
 Socket, Indicating pull. H. Hubbell. 1,736,285; Nov. 19.



- Socket insert for concrete work, Multiple-. C. D. Johnson. 1,719,611; July 2.
- Socket, Lamp. L. Erikson. 1,705,108; Mar. 12.
- Socket, Lamp. G. W. Goodridge. 1,706,226; Mar. 19.
- Socket, Lamp. G. W. Goodridge and G. B. Thomas. 1,738,366; Dec. 3.
- Socket, Lamp. T. J. Scofield and G. A. White. 1,731,205; Oct. 8.
- Socket, Lamp-bulb. C. H. Jording. 1,717,566; June 18.
- Socket, Lamp-bulb. E. A. Kuen. 1,703,626; Feb. 26.
- Socket, Lamp grip. J. Lofgren. 1,721,566; July 23.
- Socket, Metal screw. J. Vodicka. 1,710,390; Apr. 23.
- Socket mounting, Adjustable candle-. D. D. Gordon. 1,734,572; Nov. 5.
- Socket mounting, Reflector-supported light-. F. W. C. Neuner. 1,696,965; Jan. 1.
- Socket, Nut. C. S. Fellow. 1,722,390; July 30.
- Socket or mounting for vacuum tubes. G. J. Meuer. 1,741,372; Dec. 31.
- Socket, Pull. H. J. Morey. 1,719,559; July 2.
- Socket, Pull-chain lamp. W. C. Tregoning. 1,735,305; Nov. 12.
- Socket, Radio bulb. L. A. Hollwitz. 1,697,503; Jan. 1.
- Socket, Resilient tube. G. H. Davis. 1,717,762; June 18.
- Socket, Safety. J. G. Miller. 1,701,476; Feb. 5.
- Socket, Series street-lighting. H. E. Butler. 1,713,215; May 14.
- Socket set. G. E. McWethy. 1,712,473; May 7.
- Socket, Shock-absorbing. R. B. Benjamin. 1,718,451; June 25.
- Socket, Slip. A. H. Neilson. 1,734,338; Nov. 5.
- Socket, Stake. R. H. Worcester and G. Duncan. 1,715,110; May 28.
- Socket, Sucker-rod. A. H. Neilson. 1,723,433; Aug. 6.
- Socket, Switch. F. L. Larava. 1,710,264; Apr. 23.
- Socket, Switch-controlled candle. D. D. Gordon. 1,711,266; Apr. 30.
- Socket, Swivel. L. W. Chadderdon. 1,706,481; Mar. 26.
- Socket, Vacuum-tube. M. Alden. 1,738,028; Dec. 3.
- Socket, Vacuum-tube. W. C. Stevens and G. J. Meuer. 1,734,783; Nov. 5.
- Socket, Water-cooled tube. A. M. Trognier and C. F. Rudolph. 1,735,816; Nov. 12.
- Socket wrench. W. H. Fisher. 1,712,427; May 7.
- Socket wrench, Multiple-. O. E. Furst. 1,713,527; May 21.
- Socket wrench, Telescopic. P. Bidal. 1,741,810; Dec. 31.
- Sod cutter. M. J. Knipfing. 1,732,972; Oct. 22.
- Soda fountain. J. R. Replege. 1,727,941; Sept. 10.
- Soda fountain. K. A. Weber. 1,713,795; May 21.
- Soda-fountain and ice-cream service or dispensing apparatus. W. F. Beatty. 1,709,515; Apr. 16.
- Soda-fountain fruit-squeezing appliance. J. Peresles. Des. 78,122; Mar. 26.
- Soda soluble substances from cellulose-containing materials, Removal of caustic. H. P. Bassett. 1,733,393; Oct. 29.
- Sodium bicarbonate and ammonium chloride, Manufacturing. W. Glud and B. Löpmann. 1,710,636; Apr. 23.
- Sodium chloride, Obtaining. G. B. Burnham. 1,701,295; Feb. 5.
- Sodium cyanide compound and producing the same. K. F. Cooper. 1,734,562; Nov. 5.
- Sodium perborate, Preparation of. H. R. Carveth. 1,716,874; June 11.
- Sodium phosphate, Manufacture of neutral. C. F. Booth and A. B. Gerber. 1,700,972; Feb. 5.
- Sodium phosphate, Manufacturing. W. H. Lohmann. 1,727,551; Sept. 10.
- Sodium-silicate solution, Preparation of. C. D. Wood. 1,719,038; July 2.
- Sodium stannate, Production of. H. R. McIlhenney. 1,708,392; Apr. 9.
- Sodium sulphide and the product thereof. Purifying crude. R. Botson. 1,736,741; Nov. 19.
- Sodium-sulphide pellet. B. Roos. 1,699,377; Jan. 15.
- Sodium tetraborate, Obtaining. A. W. Gauger and H. H. Storch. 1,727,639; Sept. 10.
- Sodium xanthate, Manufacturing. W. Hirschkind. 1,701,264; Feb. 5.
- Sofa arm, Adjustable. K. Keinath. 1,720,842; July 16.
- Sofa bed. C. Hultgren. 1,712,145; May 7.
- Sofa bed. C. R. Hultgren. 1,712,146; May 7.
- Soft-drink cooler. D. R. Arnold and W. E. Kulp. 1,698,466; Jan. 8.
- Softening apparatus. F. M. Furber. 1,711,592; May 7.
- Softening shoe stiffeners. F. W. Eager. 1,733,486; Oct. 29.
- Softening vegetable fibers. S. D. Wells. 1,714,459; May 21.
- Softening water, Process and apparatus for. H. M. Godsey. 1,707,302; Apr. 2.
- Soil cutter, Rotary. J. A. Dirschauer. 1,718,541; June 25.
- Soil-milling machine. L. E. Fagan. 1,732,883; Oct. 22.
- Soil renovator. H. Heitmeier. 1,701,886; Feb. 12.
- Soil-test outfit. M. H. Feddersen. 1,710,156; Apr. 23.
- Soil tillage, Apparatus for. C. A. Brewer. 1,717,911; June 18.
- Soil-treating device. C. V. Buddenbrock. 1,724,449; Aug. 13.
- Solar heater. E. B. Maxwell. 1,705,988; Mar. 19.
- Solder. J. Silberstein. 1,699,761; Jan. 22.
- Solder. J. Silberstein. 1,728,772; Sept. 17.
- Solder, Aluminum. A. J. Line. 1,732,727; Oct. 22.
- Solder, Applying. J. Karmazin. 1,704,539; Mar. 5.
- Solder bath, Agitated. W. E. Taylor. 1,716,671; June 11.
- Solder for aluminum. J. Butler. 1,697,715; Jan. 1.
- Solder for aluminum or its alloys. L. R. Preston. 1,711,807; May 7.
- Solder for cast iron and other metals for surfacing them. J. Butler. 1,697,714; Jan. 1.
- Solder particularly for grey pig iron, cast steel, iron and the like, Hard. E. Lay and C. Mattick. 1,736,654; Nov. 19.
- Solder replenisher. L. L. Jones. 1,725,960; Aug. 27.
- Solder, Rosin-core. P. C. Ripley. 1,724,680; Aug. 13.
- Solder-wiping machine. H. O. Preston. 1,702,745; Feb. 19.
- Soldering and product thereof. K. Schumpelt. 1,713,677; May 21.
- Soldering and welding medium for aluminum. W. Reuss. 1,714,445; May 21.
- Soldering apparatus. J. F. Schylander. 1,738,800; Dec. 10.
- Soldering apparatus, Handle-. J. A. Gray. 1,705,971; Mar. 19.
- Soldering composition. K. Geisel. 1,721,814; July 23.
- Soldering device, Electrical. E. J. McCue. 1,701,894; Feb. 12.
- Soldering in vacuo of sheet-metal boxes, Device for the air-tight. E. Brüderlin. 1,708,868; Apr. 9.
- Soldering iron. L. Byrne and G. P. Lowell. 1,724,070; Aug. 13.
- Soldering iron. A. Kruschka. 1,733,125; Oct. 29.
- Soldering iron. J. F. Lamb. 1,701,858; Feb. 12.
- Soldering iron. D. A. Miller. 1,741,707; Dec. 31.
- Soldering iron. P. Naumann and K. Weber. 1,714,615; May 28.
- Soldering iron, Electric. C. C. Abbott. 1,708,995; Apr. 16.
- Soldering iron, Electric. E. A. Lockwood. 1,713,845; May 21.
- Soldering iron, Electric. W. L. Lofthouse. 1,714,385; May 21.
- Soldering machine. L. Liebman. 1,712,443; May 7.
- Soldering machine, Conveyer. N. F. Paradise. 1,735,336; Nov. 12.
- Soldering material. J. H. Adams. 1,697,845; Jan. 8.
- Soldering means, Electric. J. A. Toleik. 1,714,826; May 28.
- Soldering mechanism. J. Brenzinger. 1,702,808; Feb. 19.
- Soldering of chain and ring mesh fabric. E. Thoma. 1,732,317; Oct. 22.
- Soldering radiator fins. A. B. Modine. 1,730,470; Oct. 8.
- Soldering square cans, Machine for. C. E. Houseberg. 1,706,231; Mar. 19.
- Soldering stand. J. L. Rubel. 1,697,966; Jan. 8.
- Soldering stick. H. A. Meinhardt. 1,699,438; Jan. 15.
- Sole and heel, Combined. D. A. Cutler. Des. 79,583; Oct. 15.
- Sole and heel, Combined. R. Gorbald. Des. 79,709; Oct. 29.
- Sole and heel, Combined. H. H. Wydom. Des. 80,001; Nov. 26.
- Sole, Arch-supporting. E. C. Martin. 1,739,406; Dec. 10.
- Sole-attaching press. G. M. Ray. 1,725,103; Aug. 20.
- Sole-cementing apparatus, Shoe-. S. W. Burtchael. 1,726,691; Sept. 3.
- Sole-fitting machine. H. A. Ballard. 1,737,698; Dec. 3.
- Sole for boots and shoes. A. A. Glidden and T. M. Knowland. 1,701,611; Feb. 12.
- Sole for boots and shoes. A. A. Glidden and T. M. Knowland. 1,704,187; Mar. 5.
- Sole for boots and shoes, Insertion. W. Krebs. 1,729,725; Oct. 1.
- Sole for rubber boots or shoes, Repair. A. Szekeres. 1,723,217; Aug. 6.
- Sole, Inner. R. P. Frye. 1,726,019; Aug. 27.
- Sole, Inner. C. N. Prouty. 1,737,682; Dec. 3.
- Sole-laying machine. E. Erickson. 1,727,589; Sept. 10.
- Sole machine. F. E. Bertrand. 1,726,800; Sept. 3.
- Sole press. K. Engel. 1,729,769; Oct. 1.
- Sole, Ribbed inner. F. W. Valentine. 1,737,986; Dec. 3.
- Sole, Shoe. H. E. Chrisfield. Des. 80,217; Dec. 31.
- Sole, Shoe. J. E. Grosjean. Des. 80,223; Dec. 31.
- Sole, Shoe. W. B. Hopwood. 1,725,519; Aug. 20.
- Sole, Shoe. C. H. Oakley. Des. 79,301; Aug. 27.
- Soles, Attaching composition. O. Brockman. 1,714,943; May 28.
- Soles for footwear, Detachable auxiliary. L. G. Dykes. 1,727,587; Sept. 10.
- Soles or half soles to boots and shoes by the use of an adhesive, Apparatus for use in attaching. F. H. and H. S. Pochin and G. H. Dove. 1,723,522; Aug. 6.
- Soles to the lasted uppers of boots and shoes, Apparatus for use in attaching. F. H. and H. S. Pochin. 1,719,724; July 2.
- Solenoid. J. Kliegl. 1,730,735; Oct. 8.
- Solicting sheet. L. Galter. 1,736,588; Nov. 19.
- Solid and semisolid substances, Subdividing. H. Grossman. 1,711,482; Apr. 30.
- Solid substances in coarse granular condition from solutions, Precipitating. F. Jeremiassen. 1,704,611; Mar. 5.
- Solids from clarification tanks, etc., Mechanical removal of. W. Gavett. 1,734,967; Nov. 12.
- Solids from liquids, Separating. J. R. Powell. 1,729,547; Sept. 24.
- Solids from oil, Separating. J. C. Deacon. 1,713,117; May 14.
- Solids from oils, Separating congealable. J. F. P. Schönfeld. 1,724,732; Aug. 13.



- Solitaire and play board, Combination. C. S. Baker. 1,716,022; June 4.
- Solution for chemical rectifiers. F. T. Bowditch. 1,727,462; Sept. 10.
- Solution for dyeing processes. A. Guenther and G. Mauthe. 1,709,976; Apr. 23.
- Solution of hypnotica and sedativa and solvents therefor. W. Kropp. 1,707,863; Apr. 2.
- Solution of iodine and making the same. W. A. Stephens. 1,719,523; July 2.
- Solvent for nitrocelluloses. L. E. Clément. 1,713,512; May 21.
- Solvent, Lacquer. J. P. Trickey. 1,703,697; Feb. 26.
- Solvent, Purifying dry-cleaning. A. E. Hatfield. 1,704,604; Mar. 5.
- Soot and grease extractor. J. A. McCarthy. 1,722,005; July 23.
- Soot blower. T. F. Dwyer, jr. 1,709,065; Apr. 16.
- Soot blower. T. F. Dwyer, jr. 1,709,167; Apr. 16.
- Soot-blowing provision for fluid-heating apparatus. J. E. Bell. 1,732,429; Oct. 22.
- Scot-cleaner-operating mechanism. F. W. Linaker and T. M. Bruback. 1,715,137; May 28.
- Soot-collecting apparatus. R. Vocero. 1,725,687; Aug. 20.
- Soot removal. G. F. Fanno. 1,707,803; Apr. 2.
- Sorter and tabulator, Combined. F. M. Carroll. 1,710,691; Apr. 30.
- Sorting apparatus. Article. C. M. Hardenbergh. 1,712,700; May 14.
- Sorting apparatus, Article. R. A. Skriba. 1,701,641; Feb. 12.
- Sorting machine. C. Bussard. 1,723,539; Aug. 6.
- Sorting machine. L. A. Cherry. 1,716,620; June 11.
- Sorting machine. G. W. Cox, jr. 1,733,217; Oct. 29.
- Sorting machine. E. A. Ford. 1,698,844; Jan. 15.
- Sorting machine. E. A. Ford. 1,741,985; Dec. 31.
- Sorting machine. F. H. Nickle. 1,712,838; May 14.
- Sorting machine. G. J. Olney. 1,703,591; Feb. 26.
- Sorting machine. J. S. Wylie. 1,716,677; June 11.
- Sorting machine, Card. G. D. Marcy. 1,719,334; July 2.
- Sorting machine, Grain-. R. V. Judson. 1,703,342; Feb. 26.
- Sorting machine, Mica-flake-. J. M. Coffey. 1,720,666; July 16.
- Sorting means, Laundry-. T. G. Cleaver. 1,719,423; July 2.
- Sorting table. F. W. Cutler. 1,711,834; May 7.
- Sound-absorbing chamber. T. B. Munroe and W. Waterfall. 1,705,778; Mar. 19.
- Sound actuated and producing device. L. de Forest. 1,738,988; Dec. 10.
- Sound amplifier. J. N. Anderson. 1,715,181; May 28.
- Sound amplifier. F. C. Hinkleley. 1,717,778; June 18.
- Sound amplifier. F. C. Lyon. 1,723,570; Aug. 6.
- Sound amplifier. O. R. Platter. 1,735,054; Nov. 12.
- Sound-amplifying device. H. W. Thayer. 1,701,515; Feb. 12.
- Sound-amplifying device for sound reproducing and recording instruments. P. S. O'Donnell. 1,722,007; July 23.
- Sound-amplifying device for telephone systems. F. J. Empson. 1,698,583; Jan. 8.
- Sound-amplifying horns, Producing. J. B. Hawley. 1,717,775; June 18.
- Sound-amplifying system. H. Green. 1,734,944; Nov. 5.
- Sound and motion in synchronism, Reproducing. F. Von Madaler. 1,713,503; May 14.
- Sound and motion-picture reproducing system. F. H. Owens. 1,723,436; Aug. 6.
- Sound. Apparatus for finding the direction of. W. L. Walker. 1,719,951; July 9.
- Sound board, Piano. E. J. Disler. 1,727,637; Sept. 10.
- Sound box. F. C. Hinkleley. 1,720,515; July 9.
- Sound box for talking machines. H. B. Miles. 1,720,425; July 9.
- Sound-box mounting. M. Nystrom. 1,708,320; Apr. 9.
- Sound, Concentrator. M. E. Wolvekamp. 1,706,018; Mar. 19.
- Sound-control means, Supplementary. J. H. Hammond, jr. 1,713,125; May 14.
- Sound-conveying means for phonographs. H. O. Drotning. 1,729,333; Sept. 24.
- Sound-deadening construction. R. F. Norris. 1,726,500; Aug. 27.
- Sound detector. M. J. Kaltenbach. 1,708,698; Apr. 9.
- Sound device. L. J. Grubman. 1,704,536; Mar. 5.
- Sound. Device for the reproduction of. C. H. Duffy. 1,740,161; Dec. 17.
- Sound duct for talking machines. C. M. Goldstein. 1,705,663; Mar. 19.
- Sound diaphragm. M. Bernard. 1,735,417; Nov. 12.
- Sound-emitting apparatus. S. Ruben. 1,702,951; Feb. 19.
- Sound-emitting device. A. P. Young and J. H. Butcher. 1,713,207; May 14.
- Sound, Finding the direction of. W. L. Walker. 1,713,063; May 14.
- Sound generator. E. Hueter. 1,740,651; Dec. 24.
- Sound instrument, Confection. H. A. Myers. 1,723,746; Aug. 6.
- Sound-locating apparatus. G. A. Caldwell and J. C. Birchall. 1,738,094; Dec. 3.
- Sound. Method and apparatus for reproducing. S. M. Hull. 1,734,675; Nov. 5.
- Sound. Method and apparatus for translating. S. J. Plimpton. 1,733,751; Oct. 29.
- Sound. Method of and apparatus for reproducing. J. E. Lillienfeld. 1,723,244; Aug. 6.
- Sound post. A. P. Carlson. 1,729,244; Sept. 24.
- Sound-producing apparatus. G. S. Harris. 1,722,213; July 23.
- Sound-producing apparatus. P. S. O'Donnell. 1,730,286; Oct. 1.
- Sound-producing device. W. Brandegger. 1,698,296; Jan. 8.
- Sound-producing device. G. T. Craig. 1,729,031; Sept. 24.
- Sound-producing device. J. B. Hawley. 1,727,106; Sept. 3.
- Sound-producing device. J. S. High. 1,702,437; Feb. 19.
- Sound-producing device or voice for dolls and the like. L. J. Grubman. 1,727,821; Sept. 10.
- Sound-producing diaphragm. W. H. Kitto. 1,723,550; Aug. 6.
- Sound projector. W. E. Clifton. 1,735,378; Nov. 12.
- Sound propagating device. M. R. Hutchison. 1,735,864; Nov. 19.
- Sound-radiating system. H. C. Harrison. 1,731,570; Oct. 15.
- Sound radiator. R. V. L. Hartley. 1,709,073; Apr. 16.
- Sound receiver and transmitter. I. C. Clément. 1,729,161; Sept. 24.
- Sound-receiving apparatus. R. L. Williams. 1,725,038; Aug. 20.
- Sound-receiving device for submarine signaling. W. L. Walker. 1,715,395; June 4.
- Sound record. H. Germain. 1,732,747; Oct. 22.
- Sound recording and reproducing machine, Electromagnetic. H. E. Chapman. 1,731,235; Oct. 15.
- Sound-recording apparatus. A. J. Cawley. 1,698,536; Jan. 8.
- Sound-recording apparatus. E. W. Kellogg. 1,740,406; Dec. 17.
- Sound recording and reproducing. M. R. Hutchison. 1,718,355; June 25.
- Sound recording and reproduction. R. J. Pomeroy. 1,715,863; June 4.
- Sound-recording system. T. J. Engel. 1,700,833; Feb. 5.
- Sound-recording system. N. H. Holland. 1,711,681; May 7.
- Sound-regenerating device. P. G. Andres. 1,716,475; June 11.
- Sound-regenerating device. W. D. Pack. 1,698,374; Jan. 8.
- Sound-regenerating device. W. D. Pack and J. M. S. King. 1,735,873; Nov. 19.
- Sound regulator. H. L. Moore. 1,708,844; Apr. 9.
- Sound reproducer. J. L. Crouch. 1,717,146; June 11.
- Sound reproducer. H. C. Hayes. 1,704,084; Mar. 5.
- Sound reproducer. W. C. Jones. 1,717,158; June 11.
- Sound reproducer. F. A. Kolster. 1,712,920; May 14.
- Sound reproducer. F. Miller. 1,724,611; Aug. 13.
- Sound reproducer. C. W. Rice. 1,717,263; June 11.
- Sound reproducer. H. Scharf. Re17,533; Dec. 17.
- Sound reproducer. E. H. Smythe. 1,722,020; July 23.
- Sound reproducer. L. W. Staunton. 1,742,016; Dec. 31.
- Sound reproducer. R. E. B. Wakefield. 1,716,909; June 11.
- Sound reproducer, Conical-diaphragm. C. W. Peterson. 1,734,271; Nov. 5.
- Sound reproducer, Electric. A. A. Thomas. Re17,432; Sept. 10.
- Sound reproducer, Electromagnetic. R. L. Brown. 1,741,499; Dec. 31.
- Sound-reproducing and picture-exhibiting apparatus. A. T. Marshall. 1,710,994; Apr. 30.
- Sound reproducing and recording device. E. W. Adams. 1,711,666; May 7.
- Sound, Reproducing and recording of. A. F. Sykes. 1,711,551; May 7.
- Sound-reproducing apparatus. R. S. Blair and B. D. Wells. 1,717,087; June 11.
- Sound-reproducing apparatus. W. Brower. 1,732,495; Oct. 22.
- Sound-reproducing apparatus. E. W. Kellogg. 1,707,617; Apr. 2.
- Sound-reproducing apparatus. M. M. Gruber. 1,718,351; June 25.
- Sound-reproducing apparatus. P. S. O'Donnell. 1,722,008; July 23.
- Sound-reproducing apparatus. A. Slutsky. 1,719,629; July 2.
- Sound-reproducing device. P. G. Andres. 1,702,240; Feb. 19.
- Sound-reproducing device. J. B. Elenschneider. 1,696,941; Jan. 1.
- Sound-reproducing device. J. B. Elenschneider. 1,707,658; Apr. 2.
- Sound-reproducing device. J. B. Hawley. 1,734,377; Nov. 5.
- Sound-reproducing device. G. Hibacsko. 1,733,013; Oct. 22.
- Sound-reproducing device. M. R. Hutchison. 1,718,356; June 25.
- Sound-reproducing device. H. C. Mueller. 1,716,458; June 11.
- Sound-reproducing device. G. Nennich. 1,731,905; Oct. 15.
- Sound-reproducing device and making same. B. F. Wad-del. 1,722,485; July 30.
- Sound-reproducing device, Direct-acting. A. M. Nicolson. 1,717,463; June 18.
- Sound-reproducing instrument. R. E. Thompson. 1,710,035; Apr. 23.



- Sound-reproducing machine. W. E. Birket. 1,700,397; Jan. 29.
- Sound-reproducing machine. W. A. Candlish and E. H. Schleifers. 1,733,446; Oct. 29.
- Sound-reproducing machine. A. N. Goldsmith. 1,702,770; Feb. 19.
- Sound-reproducing machine. A. N. Goldsmith. 1,721,151; July 16.
- Sound-reproducing machine. G. M. Herklots. 1,720,899; July 16.
- Sound-reproducing machine. F. B. Mitchell. 1,731,750; Oct. 15.
- Sound-reproducing machine. L. Robimarga. 1,713,481; May 14.
- Sound-reproducing set. K. Parker. 1,741,431; Dec. 31.
- Sound-reproducing system. J. L. Reynolds. 1,700,450; Jan. 29.
- Sound-reproducing system, Electrodynamic. B. F. Miessner. 1,733,232; Oct. 29.
- Sound-reproducing unit. P. G. Andres. Re17,515; Dec. 10.
- Sound reproduction. R. Milecz. 1,714,516; May 28.
- Sound reproduction, Apparatus for. J. J. Jakosky. 1,705,017; Mar. 12.
- Sound reproduction, Apparatus for. K. I. Marshall. 1,724,099; Aug. 13.
- Sound reproduction, Artificial. H. S. Heller. 1,730,611; Oct. 8.
- Sound signal. R. M. Critchfield. 1,716,369; June 11.
- Sound signal. R. M. Critchfield. 1,730,192; Oct. 1.
- Sound signaling, Arrangement for eliminating disturbances in. W. Hahnemann, L. Adelman, and H. Lichte. 1,715,344; June 4.
- Sound system. H. H. Thompson. 1,735,095; Nov. 12.
- Sound system and apparatus for producing. W. D. Smith. 1,706,549; Mar. 26.
- Sound, Tactile reception of. H. Fletcher. 1,738,289; Dec. 3.
- Sound-translating chamber. P. A. Robbins. 1,730,826; Oct. 8.
- Sound-transmitting system, Multiple-range. W. Hahnemann. 1,711,529; May 7.
- Sound-wave catcher. W. Campbell. 1,708,257; Apr. 9.
- Sound-wave transmitting and amplifying device. W. Harden. 1,741,934; Dec. 31.
- Sound waves, Method and apparatus for translating or transmitting. T. W. Case. 1,718,999; July 2.
- Sound waves, Method and apparatus for utilizing high-frequency. W. Claypoole. 1,738,565; Dec. 10.
- Sound waves, Recording and reproducing of. C. H. Fetter. 1,707,260; Apr. 2.
- Sound waves, Recording and reproduction of. C. H. Fetter. 1,707,261; Apr. 2.
- Sounding arrangement. G. Schmidt and B. Settegast. 1,698,857; Jan. 15.
- Sounding board, Flexed. M. R. Hutchison. 1,735,860; Nov. 19.
- Sounding-board press. J. H. Williams and L. K. Vogt. 1,700,391; Jan. 29.
- Sounding mechanism for clocks. S. Mazur. 1,704,864; Mar. 12.
- Sounds from distorted-sound records, System for reproducing. A. Poulsen and A. C. G. Petersen. 1,713,918; May 21.
- Souvenir. M. F. Macdonald. 1,708,479; Apr. 9.
- Sowing-device attachment for potato diggers. J. B. Doroski. 1,705,911; Mar. 19.
- Sowing machine. J. Schulz. 1,727,911; Sept. 10.
- Space-discharge devices, System of. E. Peterson. 1,699,711; Jan. 22.
- Space-discharge system. J. C. Schelleng. 1,722,987; July 30.
- Space heater. A. W. Becker. Des. 77,874; Mar. 5.
- Spacer and support for bars. W. E. White. 1,712,801; May 14.
- Spacer for multiple baking pans. A. Prabel. 1,729,011; Sept. 24.
- Spacer for smokehouse trolleys, Automatic. A. E. Lefell. 1,717,233; June 11.
- Spacial configuration by means of photographs, Method of and apparatus for determining. H. L. Cooke. 1,713,498; May 14.
- Spacing and delivering pallets, Device for. H. R. Straight. 1,718,443; June 25.
- Spacing attachment for angle-punching machines. H. W. McMillan. 1,715,244; May 28.
- Spacing attachment for multiple-punching machines, Angle. H. W. McMillan. 1,702,740; Feb. 19.
- Spacing device. H. G. Oliver. 1,735,127; Nov. 12.
- Spacing device, Variable line. J. R. Lyle. 1,737,801; Dec. 3.
- Spacing element, Printer's. E. P. Hulse. 1,732,233; Oct. 22.
- Spacing instrument. R. W. Schweimler and G. C. Chirichigno. 1,729,523; Sept. 24.
- Spacing mechanism for conveyor systems. R. Amory. 1,741,752; Dec. 31.
- Spade and planter, Combined. G. Kalenoff. 1,720,601; July 9.
- Spader roller. R. Soseman. 1,719,676; July 2.
- Spading attachment for concrete-finishing machines. A. Benka. 1,717,138; June 11.
- Spanner or wrench, Adjustable. W. F. Spear. 1,729,556; Sept. 24.
- Spar for use on aircraft, Metal. H. N. Wylie. 1,708,994; Apr. 16.
- Spar for vehicle frames. V. Lancia. 1,724,845; Aug. 13.
- Spare-wheel lock. G. E. Parker. 1,726,516; Aug. 27.
- Spark-advancing mechanism. C. E. Furgason. 1,698,089; Jan. 8.
- Spark and weather strip. D. E. Conrad and V. V. Baldwin. 1,697,108; Jan. 1.
- Spark arrester. S. Baldyzer. 1,739,115; Dec. 10.
- Spark arrester. G. Carpenter. 1,697,305; Jan. 1.
- Spark arrester. G. Carpenter. 1,712,292; May 7.
- Spark arrester. G. Carpenter. 1,729,997; Oct. 1.
- Spark arrester. G. Carpenter. 1,737,145; Nov. 26.
- Spark arrester. O. F. Muhlberg. 1,709,916; Apr. 23.
- Spark arrester. J. Slocum. 1,709,884; Apr. 23.
- Spark catcher. M. F. Booth, Jr. 1,737,449; Nov. 26.
- Spark control, Automatic. H. L. Basham. 1,711,078; Apr. 30.
- Spark discharges, Method and apparatus for producing. R. Dufour. 1,735,161; Nov. 12.
- Spark gap and shield. E. E. Bidwell. 1,739,118; Dec. 10.
- Spark indicator. H. Rue. 1,715,249; May 28.
- Spark intensifier. J. M. Bartley. 1,699,829; Jan. 22.
- Spark-intensifier terminal. C. D. Anderson. 1,700,211; Jan. 29.
- Spark plug. E. P. Adam. 1,732,827; Oct. 22.
- Spark plug. E. A. Barnett. 1,727,532; Sept. 10.
- Spark plug. G. Burke and M. Acosta. 1,698,580; Jan. 8.
- Spark plug. W. J. Daubenspeck. 1,730,561; Oct. 8.
- Spark plug. J. F. Dorgan and V. Ales. 1,721,435; July 16.
- Spark plug. W. Dubilier. 1,729,248; Sept. 24.
- Spark plug. H. M. Fuller. 1,729,576; Sept. 24.
- Spark plug. P. J. Griffin. 1,710,056; Apr. 23.
- Spark plug. G. R. Hoffman. 1,717,034; June 11.
- Spark plug. G. M. Paulson. 1,719,848; July 9.
- Spark plug. C. M. Pearsall. 1,700,644; Jan. 29.
- Spark plug. H. S. Pratt. 1,723,706; Aug. 6.
- Spark plug. H. Rabezzana. 1,707,741; Apr. 2.
- Spark plug. H. Rabezzana and D. W. Randolph. 1,731,203; Oct. 8.
- Spark plug. H. Rabezzana. 1,738,610; Dec. 10.
- Spark plug. H. Schlaich. 1,709,040; Apr. 16.
- Spark plug. H. Schlaich. 1,714,521-2; May 28.
- Spark plug. A. H. Vadnais. 1,730,395; Oct. 8.
- Spark plug, Air-cooled. C. E. Leonard. 1,721,158; July 16.
- Spark plug and making the same. W. B. Smits. 1,730,441; Oct. 8.
- Spark-plug cleaner. W. F. Watkins. 1,731,915; Oct. 15.
- Spark plug for internal-combustion engines. R. Collin. 1,719,389; July 2.
- Spark plug, Internal-combustion-engine. A. M. Hubbard. 1,723,422; Aug. 6.
- Spark plug structure. O. K. Bogstrand. 1,722,269; July 30.
- Spark-plug tester. R. E. Hantzsch. 1,724,195; Aug. 13.
- Spark-plug-wire manifold. H. Schwarze. 1,697,783; Jan. 1.
- Spark-plug wrench. J. E. Olson. 1,734,270; Nov. 5.
- Spark plugs, Apparatus for replacing. A. L. F. Wattel. 1,736,561; Nov. 19.
- Spark plugs, Making. L. Blackmore. 1,701,401; Feb. 5.
- Spark plugs, Making. H. Ford. 1,723,026; Aug. 6.
- Spark plugs, Making. F. F. Hamilton. 1,726,264; Aug. 27.
- Spark plugs, Method and apparatus for making. T. W. Warren. 1,731,280; Oct. 15.
- Spark producing and distributing apparatus for internal-combustion engines. V. Paquet. 1,736,861; Nov. 26.
- Sparkling plug, Adjustable. G. Holroyd. 1,714,463; May 21.
- Sparkling plug suitable for internal-combustion engines. R. L. Aspden. 1,704,781; Mar. 12.
- Spat. H. S. Rauh. 1,709,541; Apr. 16.
- Speaker. C. J. Fitch. 1,728,405; Sept. 17.
- Speaker unit. L. E. Baltzley. 1,701,319; Feb. 5.
- Speaker unit. C. F. Goudy. 1,728,755; Sept. 17.
- Speakers, Actuating unit for. N. M. Michailovsky. 1,732,204; Oct. 15.
- Speaking device. D. F. Youngblood. 1,697,445-6; Jan. 1.
- Speaking device. D. F. Youngblood. 1,701,349; Feb. 5.
- Speaking panel for jails. B. W. Brockett. 1,741,917; Dec. 31.
- Spear. E. Ventresca. 1,715,481; June 4.
- Spear, Casing. E. D. Power. 1,728,136; Sept. 10.
- Specimen box. H. H. Root. 1,715,572; June 4.
- Spectacle. J. A. T. Oberg and E. P. Hutten. 1,733,235; Oct. 29.
- Spectacle. T. S. Slaughter. 1,712,360; May 7.
- Spectacle bridge or similar article. E. Pappert. Des. 77,855; Feb. 26.
- Spectacle case. S. H. Winston. 1,740,134; Dec. 17.
- Spectacle case. C. C. Yorde and J. G. Haucke. 1,733,848; Oct. 29.
- Spectacle frame. I. H. Halferty. 1,729,040; Sept. 24.
- Spectacle frame. L. Kleindienst. Des. 79,557; Oct. 8.
- Spectacle frame. E. Pappert. Des. 78,651; May 28.
- Spectacle frame. E. Pappert. Des. 79,162; Aug. 6.
- Spectacle frame, Zylonite. L. O. Gagnon. 1,713,120; May 14.
- Spectacle frames, Manufacture of. R. H. Simonds, D. P. Bernheim, and L. McKinstry. 1,729,901; Oct. 1.
- Spectacle template. B. M. Arrick. 1,719,957; July 9.
- Spectacle temple. O. H. Flodin. 1,708,205; Apr. 9.
- Spectacle temple. J. N. Nelson. Des. 78,773; June 18.
- Spectacle temple. F. A. Stevens and J. W. Welsh. 1,736,954; Nov. 26.
- Spectacle temple. J. W. Welsh. 1,705,228-9; Mar. 12.



- Spectacle temple and making same. R. H. Simonds. 1,706,083; Mar. 19.
- Spectacle temple and making the same. J. W. Welsh. 1,708,204; Apr. 9.
- Spectacle temple and making the same. J. W. Welsh. 1,708,209; Apr. 9.
- Spectacle temple and making the same. J. W. Welsh. 1,734,240; Nov. 5.
- Spectacle temple and making the same. J. W. Welsh. 1,736,952-3; Nov. 26.
- Spectacles and goggles. J. A. Smith. 1,739,049; Dec. 10.
- Spectacles, Bifocal. V. A. Stewart. 1,735,021; Nov. 12.
- Spectacles, Goggle attachment for. H. F. Shindel. 1,709,195; Apr. 16.
- Spectacles, Nose bridge for. G. I. Sundstrom. Des. 79,577; Oct. 8.
- Spectacles or the like. H. Newbold. 1,738,606; Dec. 10.
- Speculum. R. H. Wappler. 1,705,513; Mar. 19.
- Speed, Apparatus for the reduction of. J. W. Batchelder. 1,731,233; Oct. 15.
- Speed apparatus, Variable-. A. Laub. 1,733,024; Oct. 22.
- Speed brake, Variable-. J. M. Dapron and E. R. Fitch. 1,727,397; Sept. 10.
- Speed-change mechanism, Variable-. J. R. Richer. 1,715,045; May 28.
- Speed-changing device. P. J. Kilcullen. 1,735,203; Nov. 12.
- Speed-changing device, Geared. J. Berge. 1,707,247; Apr. 2.
- Speed-changing mechanism. E. A. Vessey. 1,733,704; Oct. 29.
- Speed-changing mechanism for glass sheets. E. Gentil and P. L. A. Mathé. 1,728,538; Sept. 17.
- Speed-changing unit. C. H. Ramsey. 1,728,279; Sept. 17.
- Speed compensating device for fluid meters, Variable-. C. J. Bassler. 1,726,975; Sept. 3.
- Speed control. C. R. Alden. 1,718,935; July 2.
- Speed-control box for steel ladles. J. R. Mountain. 1,725,096; Aug. 20.
- Speed-control device. L. A. Church. 1,703,135; Feb. 26.
- Speed-control device for automotive vehicles. A. Braun. 1,722,034; July 23.
- Speed control for imbibition apparatus. J. F. Kienninger. 1,704,328; Mar. 5.
- Speed control for motors, Variable-voltage system of. C. P. Walker. 1,735,364; Nov. 12.
- Speed-control system. J. I. Hull. 1,706,165; Mar. 19.
- Speed-control system for electric motors. D. C. Larson, G. W. Lautrup, and R. A. Waite. 1,702,338; Feb. 19.
- Speed-control system for electric motors. R. Schnitzer. 1,699,024; Jan. 15.
- Speed-control system. E. F. W. Alexanderson. 1,736,689; Nov. 19.
- Speed drive, Constant-. G. A. Mitchell. 1,701,189; Feb. 5.
- Speed drive, Variable-. H. Honigmann. 1,739,150; Dec. 10.
- Speed device, Variable-. I. Ternberg. 1,732,247; Oct. 22.
- Speed driving mechanisms, Adjusting device for variable-. H. P. Fowler. 1,699,466; Jan. 15.
- Speed for vehicles, Apparatus indicating average. I. Sagnier. 1,715,471; June 4.
- Speed indicating and recording apparatus. A. E. Moorhead. 1,725,204; Aug. 20.
- Speed-indicating apparatus. P. Gambarotta. 1,724,468; Aug. 13.
- Speed-indicating device. M. Beller and C. F. Bauer. 1,715,635; June 4.
- Speed-indicating means for cars. N. D. Preston. 1,720,635; July 9.
- Speed-indicating mechanism. M. Beller and C. F. Bauer. 1,734,070; Nov. 5.
- Speed indicator. L. Kuhl. 1,709,674; Apr. 16.
- Speed-indicator signal. F. S. Wattells. 1,723,222; Aug. 6.
- Speed mechanism, Change-. C. R. Short and V. Hughes. 1,712,938; May 14.
- Speed mechanism, Variable-. J. A. Lindholm. 1,739,534; Dec. 17.
- Speed meter, Ground-. C. F. Jenkins. 1,711,318; Apr. 30.
- Speed of boats, Increasing the. W. Harper, jr. 1,725,452; Aug. 20.
- Speedometer. F. F. Dorsey. 1,702,726; Feb. 19.
- Speedometer. C. T. Wallis. 1,697,580; Jan. 1.
- Speedometer. E. J. Wilson. 1,715,633; June 4.
- Speedometer calibration. J. Zubaty. 1,726,518; Aug. 27.
- Speedometer drive. E. A. Gustafson. 1,712,957; May 14.
- Speedometer drive. E. A. Gustafson. 1,733,771; Dec. 10.
- Speedometer-drive adapter. E. Gustafson. 1,712,956; May 14.
- Speedometer-drive reducer. C. M. Eason and G. R. Oliver. 1,713,272; May 14.
- Speedometer-drive reducer. E. A. Gustafson. 1,712,955; May 14.
- Speedometer-driving mechanism. J. Berge. 1,726,421; Aug. 27.
- Speedometer frame in casings, Mounting of. F. M. Nutt. 1,723,434; Aug. 6.
- Speedometer, Magnetic. F. F. Dorsey. 1,702,725; Feb. 19.
- Speedometer, Magnetic. J. K. Olsen. 1,707,990; Apr. 9.
- Speedometer, Registering. K. Gergler, jr. 1,706,152; Mar. 19.
- Speed recorder. T. Burnham. 1,723,228; Aug. 6.
- Speed reducer and the like. W. G. Jones and F. H. Hoge. 1,719,935; July 9.
- Speed-reduction device. W. E. Dean and E. S. Cook. 1,723,136; Aug. 6.
- Speed-reduction mechanism. R. W. A. Brewer. 1,736,875; Nov. 26.
- Speed-reduction unit. J. L. Erisman. 1,741,561; Dec. 31.
- Speed, Regulating. R. B. Wasson. 1,726,599; Sept. 3.
- Speed-regulating device. R. Dittsheim. 1,716,952; June 11.
- Speed-regulating device particularly applicable to blow-pipes. M. Claude. 1,708,831; Apr. 9.
- Speed regulator. K. Schmidt. 1,728,633; Sept. 17.
- Speed-regulator system. C. A. Boddie. 1,709,706; Apr. 16.
- Speed-regulator system. S. A. Staeger. 1,702,486; Feb. 19.
- Speed-responsive signal. D. A. Ryan. 1,722,314; July 30.
- Speed transformer. G. Krell and G. M. Martinet. 1,735,768; Nov. 12.
- Speed-transforming mechanism. J. A. Anglada. 1,731,285; Oct. 15.
- Speed transmission and brake mechanism, Variable-. J. A. Wright. 1,724,388; Aug. 13.
- Speed-transmission mechanism, Selective-. H. E. McCray. 1,717,163; June 11.
- Speed-transmission mechanism, Variable-. W. B. Bronander. 1,711,038; Apr. 30.
- Speed-transmission mechanism, Variable-. F. A. Hayes. 1,698,229; Jan. 8.
- Speed transmission, Variable-. J. G. Fay and J. C. Porter. 1,731,972; Oct. 15.
- Speed transmission, Variable-. F. L. Orr. 1,715,778; June 4.
- Speed transmission, Variable-. C. Sifton, jr. 1,703,178; Feb. 26.
- Speed unit, Electric low-. O. Cullman. 1,739,826; Dec. 17.
- Speed unit, Reverse. C. V. Holladay. 1,722,919; July 30.
- Speed wrench. R. G. Rawlings. 1,719,310; July 2.
- Speed wrench. E. Torgerson. 1,710,193; Apr. 23.
- Spelling board. M. Rivkin. 1,728,805; Sept. 17.
- Spherical articles, Production of. J. E. Caster. 1,707,708; Apr. 2.
- Sphygmomanometer cuff. T. M. Stewart. 1,729,297; Sept. 24.
- Spider for chandeliers. C. W. Logan. Des. 77,613; Jan. 29.
- Spigot. H. G. Cordley. 1,715,353; June 4.
- Spigot, Barrel. J. E. Ryan and H. Shores. 1,734,232; Nov. 5.
- Spigot, Lock. E. M. Reardon. 1,722,009; July 23.
- Spike. F. H. Williams. 1,725,118; Aug. 20.
- Spike, Drive. F. H. Williams. 1,716,019; June 4.
- Spike-making machine. C. A. Donley and W. Etter. 1,698,582; Jan. 8.
- Spike point. A. Läufer. 1,711,393; Apr. 30.
- Spike, Rail. F. Kronenberger. 1,698,370; Jan. 8.
- Spike, Railroad. O. A. Olson. 1,736,168; Nov. 19.
- Spike, Railway. F. W. Stohr. 1,737,206; Nov. 26.
- Spike, Spirally-fluted. E. C. Holmes. 1,698,951; Jan. 15.
- Spin pot and actuating mechanism therefor. W. S. Mumford. 1,732,526; Oct. 22.
- Spin pot, driving mechanism, and motor casing therefor. W. S. Mumford. 1,732,907; Oct. 22.
- Spindle: See—
- Filling spindle. Motor-driven spindle.
- Spindle and automatic wheel feed, Reciprocating. S. H. Neady. 1,707,173; Mar. 26.
- Spindle apparatus for ring-spinning and like frames. S. Ambler. 1,723,396; Aug. 6.
- Spindle assembly. E. W. Waldo. 1,714,286; May 21.
- Spindle bolster for roving machines. A. Cotic. 1,711,518; May 7.
- Spindle counterbalance. D. C. Klausmeyer. 1,729,533; Sept. 24.
- Spindle drilling machine, Multiple-. J. L. Bernard and J. L. Skeehan. 1,740,149; Dec. 17.
- Spindle-driving mechanism. F. K. Hendrickson. 1,711,055; Apr. 30.
- Spindle driving mechanism for spinning frames, Reverse-. H. O. Nelson. 1,709,145; Apr. 16.
- Spindle for the dyeing and analogous treatment of wound yarns, Collapsible. J. and T. Brandwood. 1,717,832; June 18.
- Spindle lock. A. Levedahl. 1,708,183; Apr. 9.
- Spindle mounting. P. H. Hutchinson. 1,736,972; Nov. 26.
- Spindle mounting for creels. A. L. Remington. 1,740,783; Dec. 24.
- Spindle oscillator. H. Ernst and L. F. Nenninger. 1,731,482; Oct. 15.
- Spindle-releasing device for drilling machines. H. Sauveur. 1,701,423; Feb. 5.
- Spindle-retaining device. P. R. Moffit. 1,717,461; June 18.
- Spindles, Electric individual drive for. W. Peineke. 1,721,280; July 16.
- Spinner for game devices. J. A. Olbon; 1,103,498; Feb. 26.
- Spinning and twisting frame. L. Lumby. 1,736,656; Nov. 19.
- Spinning and twisting machine beam. J. J. Keyser. 1,700,800; Feb. 5.
- Spinning apparatus for artificial yarns or threads. E. Kinsella and H. E. B. Young. 1,720,419; July 9.
- Spinning, doubling, twisting, and like machines, Doffing mechanism for flyer. A. and J. Stell. 1,714,529; May 28.



- Spinning frame. C. Morton. 1,721,028; July 16.  
 Spinning frames. Roving traverse mechanism for. J. A. Kooistra. 1,737,592; Dec. 3.  
 Spinning machines, Attachment for. A. B. Summey, B. F. Allison and T. O. Summey. 1,734,539; Nov. 5.  
 Spinning machines, Controlling mechanism for cocoon. G. B. Carnovali and A. Carnovali. 1,711,084; Apr. 30.  
 Spinning machines, Device for preventing doubles in. M. Weber. 1,728,707; Sept. 17.  
 Spinning machines, Electric stop motion for. G. M. Arragg. 1,735,102; Nov. 12.  
 Spinning machines, Stop motion for. E. Hartley. 1,711,092; Apr. 30.  
 Spinning machines, Tension device for. G. A. Lay. 1,728,066; Sept. 10.  
 Spinning machines, Thread guide for. O. O'Sullivan. Re17,459; Oct. 15.  
 Spinning or twisting ring. G. H. Gilligan. 1,723,611; Aug. 6.  
 Spinning or winding machine, Yarn. S. Boyd. 1,718,629; June 25.  
 Spinning or winding machines, Builder mechanism for. H. A. Leonard. 1,734,947; Nov. 5.  
 Spinning spindle. E. A. Perkins. 1,732,614; Oct. 22.  
 Spinning, twisting, and like machines, Doffing motion for. J. P. Mackie. 1,718,423; June 25.  
 Spiral pipe, Making welded. A. J. Hand. 1,739,757; Dec. 17.  
 Spirits-aging apparatus. J. R. Naylor. 1,741,727; Dec. 31.  
 Spit. H. Mehserle. 1,727,376; Sept. 10.  
 Spit for apple-paring machines. H. Mehserle. 1,704,366; Mar. 5.  
 Spittoon. M. P. Vukosav. 1,715,802; June 4.  
 Splice. S. E. Carney. 1,724,823; Aug. 13.  
 Splice. C. P. Tolman. 1,706,367; Mar. 19.  
 Splice bar. C. D. Baldwin. 1,736,032; Nov. 19.  
 Splice bar. E. E. Schmid and W. H. Schneider. 1,719,626; July 2.  
 Splice bar for rail joints. E. C. Zimmerman. 1,709,551; Apr. 16.  
 Splice bar, Railroad-rail. E. Griesbaum. 1,708,501; Apr. 9.  
 Splicer, Wire. H. Allen. 1,738,812; Dec. 10.  
 Splicing apparatus. H. L. Young. 1,719,206; July 2.  
 Splicing clamp. T. Siderits. 1,716,904; June 11.  
 Splicing for rafter draining members. P. L. McKee. 1,728,689; Sept. 17.  
 Splicing machine. J. W. Channell. 1,715,641; June 4.  
 Splicing machine, Wire-. J. W. Wright. 1,712,541; May 14.  
 Splicing process and apparatus, Wire-. H. H. Heller and E. G. Colson. 1,709,015; Apr. 16.  
 Spine-bobbing process. H. W. Jacobson. 1,709,020; Apr. 16.  
 Splint. C. Carvill. 1,741,011; Dec. 24.  
 Splint, Finger. R. D. Foulke. Re17,271; Apr. 16.  
 Split reduction device. J. C. McCune. 1,739,602; Dec. 17.  
 Split switch. R. E. Einstein and B. B. Betts. 1,735,075; Nov. 12.  
 Splitting device. W. H. Wineman. 1,734,934; Nov. 5.  
 Splitting granite, marble, and other rocks. J. C. Booth and S. S. Sharples. 1,719,257; July 2.  
 Spoke for vehicle wheels. A. Meldrum. 1,728,428; Sept. 17.  
 Spokeshave. F. L. Mayer. 1,738,108; Dec. 3.  
 Spoke tightener. R. Kirby. 1,732,685; Oct. 22.  
 Sponge body-rubbing device, Rubber-. C. E. McKeag. 1,714,687; May 28.  
 Sponge cup. M. S. Lower. 1,741,783; Dec. 31.  
 Sponge, Nasal medicated. E. S. Ryan. 1,732,697; Oct. 22.  
 Sponge rubber, Manufacture of. R. J. Noar. 1,717,168; June 11.  
 Sponging machine. G. and W. A. Rothholz. 1,721,136; July 16.  
 Spool. G. D. Atwood. 1,731,219; Oct. 8.  
 Spool. E. J. Hubbard. 1,733,598 Oct. 29.  
 Spool. F. Mossberg. 1,697,777; Jan. 1.  
 Spool. F. Mossberg. 1,732,817; Oct. 22.  
 Spool. H. H. Wermin. 1,739,881; Dec. 17.  
 Spool and bobbin. H. D. Clinton. 1,707,076; Mar. 26.  
 Spool and bobbin, Textile. I. Oliver. 1,700,593; Jan. 29.  
 Spool-cleaning machine. A. G. Baker. 1,739,775; Dec. 17.  
 Spool for disk-gang assemblies. C. H. Gemberling. 1,738,885; Dec. 10.  
 Spool for electrical instruments and the like. R. Simpson. 1,704,151; Mar. 5.  
 Spool for looms and other textile machines. P. Früh and K. Braun. 1,740,502; Dec. 24.  
 Spool for winding yarns, artificial silk, horsehair bands, and the like. H. C. Stuhmann. 1,701,131; Feb. 5.  
 Spool head. W. C. Mills. 1,712,279; May 7.  
 Spool, Metallic. J. H. Kjellstrom. 1,699,700; Jan. 22.  
 Spool of tape and protector therefor. R. P. Hayden and E. N. Manley. 1,704,474; Mar. 5.  
 Spool or reel. W. C. Mills. 1,712,278; May 7.  
 Spool puller. J. V. Wentworth. 1,717,822; June 18.  
 Spool, Ribbon. H. E. Hubbard. 1,727,882; Sept. 10.  
 Spool, Ribbon. J. J. Sass. 1,700,377; Jan. 29.  
 Spool stand. B. Port. 1,725,368; Aug. 20.  
 Spool-support lock, Creel-. E. H. Trevett. 1,712,059; May 7.  
 Spool, Yarn. G. W. Steiger. 1,706,826; Mar. 26.  
 Spooling apparatus, Material-. S. McMullan. 1,720,739; July 16.  
 Spooling device, Adjustable. J. E. Wallace and H. B. Carlson. 1,709,506; Apr. 16.  
 Spools, Manufacturing yarn. E. F. Hathaway. 1,729,267; Sept. 24.  
 Spools, Mechanism for making flanged. A. C. Hopkins. 1,706,118; Mar. 19.  
 Spoon. J. Tunick. 1,708,456; Apr. 9.  
 Spoon and bottle closure, Combined. F. Phillipson. 1,706,815; Mar. 26.  
 Spoon for stop-motion mechanism. L. P. Jones. 1,722,424; July 30.  
 Spoon or analogous article. J. M. Kipp. Des. 78,521; May 14.  
 Spoon or similar article. G. N. Allen. Des. 78,553; May 21.  
 Spoon or similar article. G. N. Allen. Des. 80,213; Dec. 31.  
 Spoon or similar article. I. C. Barousse. Des. 78,962; July 16.  
 Spoon or similar article. E. T. Beck. Des. 77,349; Jan. 1.  
 Spoon or similar article. T. E. Cayer. Des. 79,919; Nov. 19.  
 Spoon or similar article. L. V. M. Helander. Des. 77,357; Jan. 1.  
 Spoon or similar article. L. V. M. Helander. Des. 77,770; Feb. 19.  
 Spoon or similar article. L. V. M. Helander. Des. 78,097; Mar. 26.  
 Spoon or similar article. L. V. M. Helander. Des. 78,975; July 16.  
 Spoon or similar article. H. Hillbom. Des. 79,811; Nov. 5.  
 Spoon or similar article. E. Holmes. Des. 80,082; Dec. 10.  
 Spoon or similar article. S. V. James. Des. 77,861; Jan. 1.  
 Spoon or similar article. A. G. Kintz. Des. 80,210; Dec. 24.  
 Spoon or similar article. F. W. Koonz. Des. 78,824; June 25.  
 Spoon or similar article. J. Leech. Des. 78,981; July 16.  
 Spoon or similar article. H. Leech. Des. 79,376; Sept. 10.  
 Spoon or similar article. M. B. Leete. Des. 77,645; Feb. 5.  
 Spoon or similar article. A. O. Meyer. Des. 77,364; Jan. 1.  
 Spoon or similar article. W. T. Rolfe. Des. 79,852; Nov. 5.  
 Spoon or similar article. W. C. Sponholz. Des. 79,109; July 30.  
 Spoon or similar article. A. H. Staf. Des. 77,656; Feb. 5.  
 Spoon or similar article. A. H. Staf. Des. 77,792; Feb. 19.  
 Spoon or similar article. A. H. Staf. Des. 78,227-8; Apr. 9.  
 Spoon or similar article. A. H. Staf. Des. 79,170; Aug. 6.  
 Spoon or similar article. E. B. Tucker. Des. 78,869; June 25.  
 Spoon or similar article. W. S. Warren. Des. 78,237; Apr. 9.  
 Spoon, Stirring. C. D. Tiffany. 1,717,282; June 11.  
 Spoon, Striker. C. T. Pfeuffer. 1,700,332; Jan. 29.  
 Sport bag. M. C. Howard. 1,711,349; Apr. 30.  
 Spot and flood light apparatus. K. and J. W. Brenkert. 1,722,975; July 30.  
 Spotlight. W. F. Koch. 1,711,950; May 7.  
 Spotlight for automobiles and the like. R. H. Hummert. 1,720,836; July 16.  
 Spotlight. A. Caminetti, jr. 1,712,690; May 14.  
 Spotlight. A. Caminetti, jr. 1,737,914; Dec. 3.  
 Spotlight. H. R. Gross. 1,702,772; Feb. 19.  
 Spotlight. E. P. Johnson. 1,698,438; Jan. 8.  
 Spotlight. H. A. Kliegl. 1,740,463; Dec. 24.  
 Spotlight. W. W. Moru. 1,741,788; Dec. 31.  
 Spotlight and traffic signal, Dirigible. K. R. Platt. 1,707,175; Mar. 26.  
 Spotlight, Automatic dirigible. L. H. Miles. 1,730,468; Oct. 8.  
 Spotlight control. R. A. Chambers. 1,702,594; Feb. 19.  
 Spotlight, Dirigible. C. S. Wilson. 1,733,289; Oct. 29.  
 Spotlight, Electrically-controlled. A. Caminetti, jr. 1,711,446; Apr. 30.  
 Spotlight, Vehicle. W. R. Shaw. 1,740,909; Dec. 24.  
 Spout. W. C. Buttner. 1,709,458; Apr. 16.  
 Spout. C. T. Heller. 1,702,084; Feb. 12.  
 Spout. T. Petersen. 1,738,077; Dec. 3.  
 Spout. H. C. Segelken. 1,718,084; June 18.  
 Spout and spray fixture, Combined. M. J. Glauber. 1,717,678; June 18.  
 Spout and sprinkler head for watering pots, Combination. J. C. F. Schafer. 1,702,523; Feb. 19.  
 Spout, Bucket-controlled. I. W. Macy. 1,705,986; Mar. 19.  
 Spout, Dispensing bottle. H. M. Boe. 1,732,030; Oct. 15.  
 Spout, Filler. A. O. Payne. 1,725,826; Aug. 27.  
 Spout, Filling. M. R. Holbert. 1,709,263; Apr. 16.  
 Spout, Jar. O. D. Holt and R. Young. 1,709,265; Apr. 16.  
 Spout, Pouring. G. H. Neil. 1,714,102; May 21.  
 Spouts or handles for coffee pots or similar articles, Forming. H. I. Clullee. 1,719,169; July 2.  
 Spragging device for motor vehicles. G. Wilson. 1,719,157; July 2.  
 Spray apparatus, Bath. H. Madison. 1,728,129; Sept. 10.  
 Spray apparatus for treating foot ailments. I. S. Oye. 1,715,043; May 28.  
 Spray, Bath. R. Findlay. 1,720,122; July 9.



- Spray-controlling device for road-scavenging machines. P. L'Orange. 1,740,361; Dec. 17.
- Spray device. C. M. McArthur. 1,697,834; Jan. 1.
- Spray device, Intermittent. I. W. P. Buchanan. 1,735,728; Nov. 12.
- Spray drying. W. S. Bowen. 1,711,306; Apr. 30.
- Spray for fruit and vegetable display racks, Vaporizing. W. M. White. 1,711,512; May 7.
- Spray gun. T. Birkenmaier. 1,703,383; Feb. 26.
- Spray gun. T. Birkenmaier. 1,729,759; Oct. 1.
- Spray gun. W. L. Deming. 1,704,498; Mar. 5.
- Spray gun. C. A. Norgren. 1,736,357; Nov. 19.
- Spray gun. J. C. Hull. 1,740,241; Dec. 17.
- Spray gun. E. S. Sachsenmaier. 1,737,895; Dec. 3.
- Spray gun. W. B. Thompson. 1,741,169; Dec. 31.
- Spray gun and spray head therefor. G. W. Bryant. 1,722,892; July 30.
- Spray gun, Fruit-. G. C. Brown. 1,712,195; May 7.
- Spray gun, Shipping insecticide-container. F. D. Pelot. 1,699,016; Jan. 15.
- Spray head. G. A. Mueller. 1,731,497-8; Oct. 15.
- Spray head. G. A. Mueller. 1,736,356; Nov. 19.
- Spray head. G. A. Mueller and R. W. Tracy. 1,732,691; Oct. 22.
- Spray head. R. W. Tracy. 1,739,428; Dec. 10.
- Spray head. A. D. Nicholson. 1,723,296; Aug. 6.
- Spray head and method of spraying. W. H. Klein. 1,716,175; June 4.
- Spray head, Rigid. W. H. Klein. 1,716,174; June 4.
- Spray-mist washing apparatus. J. H. Tritz. 1,734,927; Nov. 5.
- Spray-processed products, Controlling characteristics of. D. R. Lamont. 1,734,260; Nov. 5.
- Spray, Shower-bath. E. J. Crill. 1,733,054; Oct. 22.
- Spray, Surgical. K. Bergl. 1,719,163; July 2.
- Spray, Vegetable. A. J. Lane. Re17,407; Aug. 20.
- Sprayer. C. Brown. 1,723,403; Aug. 6.
- Sprayer. H. B. Guthrie. 1,716,583; June 11.
- Sprayer and the like. H. J. Bragdon. 1,738,757; Dec. 10.
- Sprayer and the like. H. J. Bragdon. 1,738,863; Dec. 10.
- Sprayer attachment for hose nozzles. J. Krc. 1,702,214; Feb. 12.
- Sprayer attachment for vacuum cleaners. F. O. Hartman. 1,713,902; May 21.
- Sprayer, Electric sand. K. A. Peters. 1,732,655; Oct. 22.
- Sprayer, Fabric. F. Hinnekens. 1,705,919; Mar. 19.
- Sprayer for dishwashing machines, Fluid. J. E. Elkington. 1,701,066; Feb. 5.
- Sprayer for effecting intimate contact between liquids and gases. W. F. Slater. 1,704,519; Mar. 5.
- Sprayer, Hand. C. Brown. 1,716,301; June 4.
- Sprayer, Liquid. L. Vetter. 1,722,403; July 30.
- Sprayer or atomizer. T. Kübler. 1,727,549; Sept. 10.
- Sprayer, Paint. D. J. Sullivan. 1,710,903; Apr. 30.
- Spraying. W. E. Thompson. 1,729,634; Oct. 1.
- Spraying apparatus. J. E. Swendeman. 1,732,955; Oct. 22.
- Spraying apparatus. E. Walker. 1,707,696; Apr. 2.
- Spraying apparatus. O. H. Wurster. 1,740,759; Dec. 24.
- Spraying apparatus, Paint-. W. C. Beach. 1,727,500; Sept. 10.
- Spraying apparatus, Tank and agitating construction for paint-. A. H. Downs. 1,733,724; Oct. 29.
- Spraying device. S. G. Buskard. 1,727,962; Sept. 10.
- Spraying device. I. R. Hippenmeyer. 1,734,580; Nov. 5.
- Spraying device. A. B. Hull. 1,714,224; May 21.
- Spraying device. H. Lennon. 1,727,294; Sept. 3.
- Spraying device. A. S. Morris. 1,714,232; May 21.
- Spraying device. F. R. Riley. 1,714,694; May 28.
- Spraying device. G. C. Waters, jr. 1,723,715; Aug. 6.
- Spraying device, Fluid-pressure. F. E. Hansen. 1,728,766; Sept. 17.
- Spraying device for applying mineral blacking to molds. J. Dean. 1,697,167; Jan. 1.
- Spraying device, Metal-. C. M. Saeger, jr. 1,721,092; July 16.
- Spraying distributor. L. L. Martin. 1,715,140; May 28.
- Spraying machine. E. M. Foster. 1,705,398; Mar. 12.
- Spraying machine, Cam-. F. Eberhart. 1,734,290; Nov. 5.
- Spraying machine, Cotton-. A. Jaecks. 1,733,883; Oct. 29.
- Spraying machines, Pressure regulator and tank cover for paint-. F. A. Tittmore and C. S. Renwick. 1,698,247; Jan. 8.
- Spraying means, Air-operated. F. A. Howarth. 1,712,617; May 14.
- Spraying mechanism for dishwashing machines. F. D. Clinton. 1,733,249; Oct. 29.
- Spraying molten substances, Apparatus for. H. J. Versteeg. 1,705,214; Mar. 12.
- Spraying or atomizing device. S. V. Leong. 1,716,525; June 11.
- Spraying paints, lacquers, or other liquids, Device for. A. H. Downs. 1,706,875; Mar. 26.
- Spraying plants and trees, Apparatus for. T. A. Sissom. 1,706,418; Mar. 26.
- Spreader and form holder for concrete walls. O. J. Rees. 1,708,634; Apr. 9.
- Spreader attachment for thrashing machines. F. J. Wood. 1,729,199; Sept. 24.
- Spreader, Material. J. H. Coombs. 1,705,901; Mar. 19.
- Spreaders, Drive mechanism for. E. C. Smith. 1,729,090; Sept. 24.
- Spreading and feeding fibrous plant stalks and the like, Device for. F. P. Gardner. 1,737,584; Dec. 3.
- Spreading apparatus. B. F. Hayden. 1,715,325; May 28.
- Spreading granular material, Machine for. J. H. Meijer. 1,736,124; Nov. 19.
- Spreading machine. O. L. Smith. 1,702,525; Feb. 19.
- Spreading machine, Road-. A. N. Nickerson. 1,702,666; Feb. 19.
- Spreading or stretching material. T. E. Kane. 1,716,555; June 11.
- Spring: See—  
 Air spring. Leaf spring.  
 Automobile spring. Pneumatic spring.  
 Bed spring. Release spring.  
 Chassis spring. Seat spring.  
 Coffin spring. Stage spring.  
 Cushion spring. Stove-door spring.  
 Furniture spring. Truck spring.  
 Vehicle spring.
- Spring. J. F. Bernhardt. 1,735,371; Nov. 12.
- Spring. P. Green. 1,699,964; Jan. 22.
- Spring. I. B. Humphreys. 1,710,480; Apr. 23.
- Spring. C. W. Krepps. 1,723,484; Aug. 6.
- Spring. L. J. Root. 1,708,684; Apr. 9.
- Spring. L. Stickley. 1,700,520; Jan. 29.
- Spring action for firearm hammers. A. R. Brinkerhoff. 1,711,874; May 7.
- Spring adjuster. C. M. Robinson. 1,711,692; May 7.
- Spring and bumper, Auxiliary. T. S. Kemble. 1,730,039; Oct. 1.
- Spring assembling, cutting, and hook-forming machine, Helical-coil-. G. A. Stackhouse. 1,716,093; June 4.
- Spring-assembling mechanism and method. F. E. Kroehler. 1,706,889; Mar. 26.
- Spring attachment. M. M. Delgado. 1,716,431; June 11.
- Spring attachment, Coiled-. W. Kiwi. 1,725,356; Aug. 20.
- Spring balance. E. G. Coker. 1,724,993; Aug. 20.
- Spring-bar Jack bed. K. O. Waechter. 1,730,023; Oct. 1.
- Springboard. T. C. Dobbins. 1,698,751; Jan. 15.
- Spring bolt. F. T. Ellis and W. E. Wilber. 1,711,018; Apr. 30.
- Spring bushing. J. L. Collins. 1,738,037; Dec. 3.
- Spring-camming machine. J. W. Killingsworth. 1,713,387; May 14.
- Spring clip. F. W. Gibson. 1,711,730; May 7.
- Spring-clip cover. O. W. Wendel. 1,725,167; Aug. 20.
- Spring clip for electrical conductors. R. R. Smith and J. R. Marsh. 1,702,024; Feb. 12.
- Spring clutch, Open-wound. W. C. Starkey. 1,725,109; Aug. 20.
- Spring compressor. L. C. Sullivan and R. E. Mullen. 1,714,113; May 21.
- Spring connection. J. C. Haggart, jr. 1,719,884; July 9.
- Spring construction. L. E. Pittoni. 1,732,588; Oct. 22.
- Spring construction. C. A. Zahradt. 1,721,196; July 16.
- Spring construction, Automobile. W. B. Robe. 1,699,312; Jan. 15.
- Spring construction, Automobile. W. B. Robe. 1,712,050; May 7.
- Spring construction, Vehicle. H. E. Curtis. 1,701,231; Feb. 5.
- Spring containing strip. J. L. MacInerney. 1,724,947; Aug. 20.
- Spring-controlling appliance, Vehicle. R. P. Lansing. 1,697,246; Jan. 1.
- Spring-controlling appliance, Vehicle. R. P. Lansing. 1,697,394-5; Jan. 1.
- Spring counterbalancing means. E. Kreissig. 1,741,525; Dec. 31.
- Spring coupling. H. D. Geyer. 1,708,221; Apr. 9.
- Spring cue for toy use. H. J. Brinkman. 1,730,446; Oct. 8.
- Spring cushion. W. Lewis. 1,698,638; Jan. 8.
- Spring cushion. W. Lewis. 1,727,653; Sept. 10.
- Spring-cushion structure. P. Krakauer. 1,697,819; Jan. 1.
- Spring end structure. N. N. Brown. 1,722,271; July 30.
- Spring-equalizing arrangement. E. G. Hallquist. 1,703,525; Feb. 26.
- Spring fabric. H. S. Rhoads. 1,734,147; Nov. 5.
- Spring for electric snap switches. M. Guett. 1,710,576; Apr. 23.
- Spring for juvenile vehicles. C. W. White. 1,700,459; Jan. 29.
- Spring for piano actions, Damper. H. E. Hale. 1,714,022; May 21.
- Spring for typesetting machines, Roller chute. C. H. Allan. 1,710,852; Apr. 30.
- Spring hanger for brooms and dustpans, Combination. H. Merk. 1,722,383; July 30.
- Spring-jack connection. P. G. Edwards. 1,718,280; June 25.
- Spring mechanism for trucks, Auxiliary. P. R. Drenning. 1,727,867; Sept. 10.
- Spring member. G. H. Beaumont and J. C. Monteith. 1,733,364; Oct. 29.
- Spring motor. J. W. Eisiminger and C. H. Roberts. 1,721,807; July 23.
- Spring motor. L. B. Graham. 1,718,289; June 25.
- Spring motor. A. S. Howell. 1,720,275; July 9.
- Spring motor, Electrically-wound. S. H. Wismer. 1,726,601; Sept. 3.
- Spring motors, Overwinding preventer for. D. E. Odom. 1,720,289; July 9.
- Spring mounting for vehicles. A. Kämpfer. 1,722,426-7; July 30.
- Spring-padding structure. F. M. Pratt. 1,700,484; Apr. 16.



- Spring, particularly for automobiles, Vehicle. C. P. Gebauer. 1,706,487; Mar. 26.
- Spring plank. G. T. Johnson. 1,706,783; Mar. 26.
- Spring retainer, Valve. S. Imberman. 1,706,885; Mar. 26.
- Spring ring. W. F. Herold. 1,696,912; Jan. 1.
- Spring seat. B. Podiebrad. 1,708,632; Apr. 9.
- Spring seat. M. Stubnitz. 1,717,949; June 18.
- Spring shackle. R. H. Chilton. 1,739,025; Dec. 10.
- Spring shackle. H. D. Geyer. 1,727,031; Sept. 3.
- Spring shackle bolt. L. W. Simons and J. H. Britton. 1,707,145; Mar. 26.
- Spring shank. C. Miller. 1,717,994; June 18.
- Spring slug for condenser tubes. W. F. Oberhuber. 1,700,851; Feb. 5.
- Spring structure. A. C. Wisner. 1,724,864; Aug. 13.
- Spring support. S. P. Bush. 1,703,053; Feb. 19.
- Spring support for auto busses, etc. T. S. Kemble. 1,728,892; Sept. 17.
- Spring support for vehicle bodies. E. J. Prime. 1,716,564; June 11.
- Spring suspension. A. F. Masury. 1,698,851; Jan. 15.
- Spring suspension. A. Taub. 1,705,037; Mar. 12.
- Spring suspension. F. A. Whitten. 1,703,328; Feb. 26.
- Spring suspension. J. A. Wright. 1,716,716; June 11.
- Spring suspension for a six-wheel chassis. E. R. Gurney. 1,699,530; Jan. 22.
- Spring suspension for vehicle bodies. F. Parisi. 1,737,328; Nov. 26.
- Spring suspension for vehicles. H. W. Hyde. 1,719,767; July 2.
- Spring suspension for vehicles. A. G. Rayburn. 1,705,137; Mar. 12.
- Spring suspension, Vehicle. F. A. Hayes. 1,709,130; Apr. 16.
- Spring tie. W. E. Nattress and C. D. Stout. 1,735,354; Nov. 12.
- Spring-tooth mounting. D. M. Morris. 1,709,536; Apr. 16.
- Spring-truing machine. G. N. Einsele. 1,701,913; Feb. 12.
- Spring undercutter. A. F. Dougan. 1,737,708; Dec. 3.
- Spring washer, Compression. J. D. Cowan. 1,709,933; Apr. 23.
- Spring wheel. A. Horvath. 1,710,215; Apr. 23.
- Spring wheel. W. A. Jessup. 1,706,297; Mar. 19.
- Spring wheel. T. Rozankovich. 1,742,100; Dec. 31.
- Spring wheel. H. Ysskin. 1,698,523; Jan. 8.
- Spring wheel, Automatic. A. F. Hahner. 1,701,325; Feb. 5.
- Spring winder and the like. H. J. Bragdon. 1,709,707; Apr. 16.
- Spring-winding machine and method. J. J. Rogan. 1,715,046; May 28.
- Springs, Auxiliary tensioning element for automobile. G. L. Benford. 1,719,387; July 2.
- Springs, Re-forming coil. J. H. Chancy. 1,731,763; Oct. 15.
- Springs, Retaining means for. J. Bystricky. 1,700,349; Jan. 29.
- Sprinkler: See—  
Automatic sprinkler. Rotary sprinkler.  
Lawn sprinkler. Water sprinkler.
- Sprinkler. W. G. Noack. 1,717,887; June 18.
- Sprinkler. J. K. Northrop. 1,705,305; Mar. 12.
- Sprinkler. G. Rodrigues. 1,729,897; Oct. 1.
- Sprinkler for distributing foam for fire-extinguishing purposes. B. Reddemann. 1,733,754; Oct. 29.
- Sprinkler head. H. W. Doughty. 1,736,255-6; Nov. 19.
- Sprinkler head. W. A. Sufin. 1,738,332; Dec. 3.
- Sprinkler head. W. Van E. Thompson. 1,741,665; Dec. 31.
- Sprinkler or fire extinguisher, Automatic. J. Taylor. 1,733,701; Oct. 29.
- Sprinkler-top can. J. H. Kuechenmeister. 1,708,582; Apr. 9.
- Sprinkler vane, Lawn-. C. C. Armstrong. Des. 77,724; Feb. 19.
- Sprinkling apparatus, Lawn-. H. B. Sherman. 1,710,844; Apr. 30.
- Sprinkling can. G. C. Ullrich. 1,699,459; Jan. 15.
- Sprinkling device. W. H. Coles. 1,722,455; July 30.
- Sprinkling device for locomotive ash pans. L. Kassander. 1,740,601; Dec. 24.
- Sprinkling device, Lawn-. C. K. Farley. 1,714,713; May 28.
- Sprinkling device, Lawn-. B. N. Flickinger. 1,724,702; Aug. 13.
- Sprinkling device, Water-. G. A. Williams; 1,731,555; Oct. 15.
- Sprocket wheel. R. J. Riley. 1,704,150; Mar. 5.
- Sprouter, Grain. H. Appel. 1,728,951; Sept. 24.
- Sprues from cutting tools and similar objects, Removing the. E. Jacob. 1,721,303; July 16.
- Spumoni and the like, Method of and apparatus for making. A. A. Magazzu. 1,698,411; Jan. 8.
- Square. C. R. Crandlemere. 1,704,462; Mar. 5.
- Square. M. J. Poppock. 1,725,476; Aug. 20.
- Squaring and aligning device, Pallet. C. E. Fuller. 1,733,221; Oct. 29.
- Squeegee. W. Eiermann. 1,720,630; July 9.
- Squeegee. T. J. Smulski. 1,699,634; Jan. 22.
- Squeegee applicator. E. F. Maas. 1,735,689; Nov. 12.
- Squeegee device for applying liquids to surfaces. J. Duffy. 1,709,711; Apr. 16.
- Squeegee guider. R. S. Kirk. 1,721,304; July 16.
- Squeezer. M. G. de Simone. 1,726,544; Sept. 3.
- Squeezer, Lemon-slice. P. Glamzo. 1,740,170; Dec. 17.
- Squint deflection, Device for determining the. O. Henker. 1,702,258; Feb. 19.
- Squirt gun. R. H. Brownlee and W. H. Coburn. 1,714,211; May 21.
- Stabilization of moving objects such as aircraft and water craft. J. M. Boykow. 1,709,457; Apr. 16.
- Stabilizer. R. E. Bierd and J. H. Patterson. 1,734,194; Nov. 5.
- Stabilizer. E. J. Blood. 1,715,028; May 28.
- Stabilizer. A. W. F. Manzel. 1,755,769; Nov. 12.
- Stabilizer. N. C. Ward. 1,735,820; Nov. 12.
- Stabilizer and brake for aeroplanes, Automatic. L. Garris. 1,724,188; Aug. 13.
- Stabilizer, Directional. N. Minorsky. 1,703,280; Feb. 26.
- Stabilizer for aeroplanes, Vacuum wing. J. G. Lyons. 1,741,578; Dec. 31.
- Stabilizer for fluid doorchecks, Resistance. H. W. Shonard and W. B. Crowell. 1,736,946; Nov. 26.
- Stabilizer for steering wheels. W. T. Wright. 1,701,434; Feb. 5.
- Stabilizer, Ship. J. H. Hammond, jr. 1,700,406; Jan. 29.
- Stabilizing apparatus. J. Fleux. 1,732,677; Oct. 22.
- Stabilizing device and method. H. H. Dow. 1,731,236; Oct. 15.
- Stabilizing reactance. J. E. Granger. 1,713,697; May 21.
- Stabilizing system, Frequency. R. A. Heising and G. C. de Coutouly. 1,717,030; June 11.
- Stack holder and can-end feed therefor. M. M. Sedwick. 1,707,928; Apr. 2.
- Stacker. F. D. Coppock. 1,732,083; Oct. 15.
- Stacking box. C. H. Hoffman. 1,708,474; Apr. 9.
- Stacking machine. H. P. Dolron and L. D. Titus. 1,721,900; July 23.
- Stacking sheet metal and the like, Device for. J. H. Young and W. G. Frink. 1,717,430; June 18.
- Stacking vines. O. J. McNaughton. 1,717,611; June 18.
- Stadium, Night and day. F. W. Erickson. 1,711,994; May 7.
- Stage chair, Suspended. W. B. Barrows. Des. 78,326; Apr. 23.
- Stage-lift-flowing device. A. Boynton. 1,712,418; May 7.
- Stage spring, Multiple-. J. B. Rauen and W. J. Sprong. 1,709,487; Apr. 16.
- Stair. A. O. Wilson. 1,718,582; May 21.
- Stair. A. O. Wilson. 1,726,133; Aug. 27.
- Staircase, Moving. F. Holtschmit. 1,741,842; Dec. 31.
- Stair, Collapsible and disappearing. R. B. Marschke. 1,721,521; July 23.
- Stair construction, Metallic. R. M. Bechtel. 1,701,659; Feb. 12.
- Stair, Folding. R. B. Marschke. 1,731,980; Oct. 15.
- Stair platform and the like, Reinforced concrete. H. W. Schick. 1,725,541; Aug. 20.
- Stair structure, Folding. R. B. Marschke. 1,700,904; Feb. 5.
- Stair structure, Winding-. J. Van Rossum. 1,716,713; June 11.
- Stair tread. B. H. Hyson, jr. Des. 77,487; Jan. 15.
- Stair tread and holder. J. C. Jacques. 1,738,775; Dec. 10.
- Stair tread and manufacturing same. G. S. Frazier. 1,732,933; Oct. 22.
- Stair tread and the like, Making a. H. A. Welcome. 1,731,514; Oct. 15.
- Stair-tread nosing. C. E. Loehr. Re17,205; Feb. 5.
- Stairway, Moving. M. C. Schwab. 1,740,121; Dec. 17.
- Stairway, Sliding. E. C. Loetscher. 1,737,799; Dec. 3.
- Stake and strand fabric article, Producing a simulated. L. Larsen. 1,712,624; May 14.
- Stake and strand simulating fabric. L. Larsen. 1,713,665; May 21.
- Stake attachment for freight cars. H. Falla. 1,714,357; May 21.
- Stake box, Road-rail. G. H. Miller. 1,734,041; Nov. 5.
- Stake for holding concrete forms. G. G. Cucolo. 1,741,829; Dec. 31.
- Stake or upright for trucks, cars, and the like, Folding. W. R. McCord. 1,738,109; Dec. 3.
- Stake, Plant-marking. M. Drescher. 1,710,866; Apr. 30.
- Stake pocket. A. C. Schmohl. 1,718,308; June 25.
- Stake retainer. H. L. Fino. 1,728,481; Sept. 17.
- Stalk cutter. G. W. Edwards. 1,715,450; June 4.
- Stalk cutter. P. W. Spell. 1,713,197; May 14.
- Stalk remover. C. W. Shannon. 1,733,913; Oct. 29.
- Stall, Animal. W. Loudon and A. H. Neller. 1,699,333; Jan. 15.
- Stamp-affixing machine. A. Gay. 1,721,336; July 16.
- Stamp for photographic-printing machines, Numbering. R. S. Hopkins. 1,716,523; June 11.
- Stamp, Hand. F. Childs. 1,723,267; Aug. 6.
- Stamp machine, Hand-. C. S. Du Belle. 1,718,686; June 25.
- Stamp machine, Hand-. C. S. Du Belle. 1,724,074; Aug. 13.
- Stamp moistener. J. Ruze. 1,713,627; May 21.
- Stamp pad, Rubber-. C. C. Harris. 1,702,003; Feb. 12.
- Stamp, Registering. F. Gruttmann. 1,728,826; Sept. 17.
- Stamp, Self-inking. K. Klein. 1,716,642; June 11.
- Stamp, Self-righting. F. Bogaskie. 1,722,407; July 30.
- Stamp with counting mechanism for printing purposes of any kind, Rolling. H. Komusin, née Liedtke. 1,738,373; Dec. 3.
- Stamping device. O. C. Correll. 1,740,285; Dec. 17.
- Stamping device. P. Grabler. 1,730,365; Oct. 8.
- Stamping device. W. J. Heck. 1,713,336; May 14.
- Stamping device. G. Sague. 1,714,278; May 21.



- Stamping device, Cement-brick-. J. F. Mazza. 1,705,331; Mar. 12.
- Stamping device, especially for stamping pieces out of plates of artificial horn. A. Zsigmondy. 1,739,200; Dec. 10.
- Stamping machine. G. W. Heene. 1,738,899; Dec. 10.
- Stamping machine. G. H. Ryper. 1,705,541; Mar. 19.
- Stamping machine. H. G. Stamper. 1,707,149; Mar. 26.
- Stamping machine, Egg-. C. Baumgart. 1,711,715; May 7.
- Stamping press, Relief-. F. C. E. Jones. 1,732,846; Oct. 22.
- Stamping process. P. Schwarz. 1,726,242; Aug. 27.
- Stamping process for making sheet-metal articles. P. Schwarz. 1,739,524; Dec. 17.
- Stamps in albums, Fastening postage. P. Wangemann. 1,736,950; Nov. 26.
- Stanchion. J. F. Grim. 1,724,651; Aug. 13.
- Stanchion. H. C. Rassmann. 1,734,402; Nov. 5.
- Stanchion bracket. P. Rushton. 1,706,076; Mar. 19.
- Stanchion, Cattle. W. E. Currie. 1,702,464; Feb. 19.
- Stanchion, Cattle. W. E. Currie. 1,728,857; Sept. 17.
- Stanchion, Cattle. P. G. A. Weise and J. Kuhlmann. 1,730,835; Oct. 8.
- Stanchion, Cow. D. R. Murphy and J. C. Krieg. 1,709,087; Apr. 16.
- Stanchion joint, Windshield-. R. G. Chambers. 1,734,005; Oct. 29.
- Stanchion sure stop. C. H. Grubb. 1,739,227; Dec. 10.
- Stanchion usable as a strainer post, Portable ground. C. Clayton. 1,698,672; Jan. 8.
- Staple strip and making same. A. D. Tibbals. 1,727,574; Sept. 10.
- Stand: See—
- Adjustable stand.
  - Advertising stand.
  - Banjo stand.
  - Barrel stand.
  - Bird-cage stand.
  - Bucket and brush stand.
  - Calendar stand.
  - Card-display stand.
  - Collapsible stand.
  - Cooling-device stand.
  - Display stand.
  - Drill stand.
  - Electric-iron stand.
  - Engine stand.
  - Equipment stand.
  - Flatiron stand.
  - Folding stand.
  - Golf-bag stand.
  - Hat-holding stand.
  - Iron stand.
  - Lamp stand.
  - Oil stand.
  - Paper-roll stand.
  - Pen stand.
  - Pen and ink stand.
  - Plant stand.
  - Radiator stand.
  - Railway-switch stand.
  - Reading stand.
  - Repair stand.
  - Sacking stand.
  - Sadiron stand.
  - Sadiron-retaining stand.
  - Sectional stand.
  - Shoe-polishing stand.
  - Sign-supporting stand.
  - Smoker's stand.
  - Smoking stand.
  - Soldering stand.
  - Spool stand.
  - Support stand.
  - Switch stand.
  - Testing stand.
  - Tire stand.
  - Tobacco-user's stand.
  - Towel stand.
  - Tree stand.
  - Utility stand.
  - Votive stand.
- Stand. W. J. and W. P. Healy. 1,733,011; Oct. 22.
- Stand. E. M. Lee. 1,714,880; May 28.
- Stand. L. J. Leon. 1,706,239; Mar. 19.
- Stand. A. Marchev. 1,735,505; Nov. 12.
- Stand. W. M. Moore. Des. 80,243; Dec. 31.
- Stand. I. F. Petigor. 1,737,729; Dec. 3.
- Stand. W. B. Stringer. 1,719,146; July 2.
- Stand and garbage container, Combined. W. H. Harrison. 1,721,299; July 16.
- Stand and humidior, Combined smoking. W. W. Bittel. Des. 79,783; Nov. 5.
- Stand and lamp, Combination. J. Pontek. Des. 79,759; Oct. 29.
- Stand and switch for electric heating devices. G. F. Behringer. 1,723,965; Aug. 6.
- Stand for articles. E. J. Henle. 1,717,560; June 18.
- Stand for calorimetric bombs. J. Darroch. 1,708,754; Apr. 9.
- Stand for fish bowls or similar articles. L. E. Wackerle. Des. 78,682; May 28.
- Stand for flexible posters. F. Hoffman. 1,713,082; May 14.
- Stand for hammocks and the like. H. Knopf. 1,706,029; Mar. 19.
- Stand for merchandise, Display. C. P. Johnson. 1,711,203; Apr. 30.
- Stand for sadirons. A. Maten. 1,704,988; Mar. 12.
- Stand for smoking sets or the like. E. E. Ekval. Des. 78,511; May 14.
- Stand for supporting an electric light or similar article. H. Lewis. Des. 78,357; Apr. 23.
- Stand for supporting vinegar barrels and barrels of other liquid content, Floor. H. L. Shellabarger. 1,703,432; Feb. 26.
- Stand for the display of coats, costumes, and the like. S. P. Shipway. 1,720,762; July 16.
- Stand or similar article, Fan. C. D. Ryder. Des. 79,853; Nov. 5.
- Stand or similar article, Muffin. M. A. Buchwalter. Des. 79,497; Oct. 1.
- Stand or similar article, Smoker's. F. B. Ether. Des. 77,757; Feb. 19.
- Stand or similar article, Ticket. S. T. Gullicksen. Des. 78,390; Apr. 30.
- Stands, Base for display. R. Celeste. Des. 78,378; Apr. 30.
- Stands, Head for smoking. E. E. Ekval. Des. 80,023; Dec. 3.
- Standard. F. Barney. 1,738,276; Dec. 3.
- Standard, Lamp. C. F. Haas. Des. 78,813; June 25.
- Standard, Street-lighting. H. S. Clarke. Des. 80,166; Dec. 24.
- Standard, Supporting. R. W. Erskine. 1,712,757; May 14.
- Standards, Arm for street-lighting. H. S. Clarke. Des. 80,165; Dec. 24.
- Standards, Making. E. C. Amsden. 1,734,889; Nov. 5.
- Standpipe apparatus. J. Becker. 1,700,971; Feb. 5.
- Standpipe, Fire-extinguisher. B. Reddemann. 1,706,821; Mar. 26.
- Standpipe for fire hose, Turret. J. T. Corley. 1,738,421; Dec. 3.
- Staple. W. C. Bowman. 1,741,279; Dec. 31.
- Staple blank and forming same. A. H. Maynard. 1,733,506; Oct. 29.
- Staple-driving apparatus. J. J. Szepe. 1,709,756; Apr. 16.
- Staple-inserting machine. G. R. Coyne. 1,714,709; May 28.
- Staple, Insulated. C. W. Tobey. 1,705,144; Mar. 12.
- Staple puller. S. T. Fielding. 1,715,826; June 4.
- Staple, Upholstery. S. L. Warren. 1,730,026; Oct. 1.
- Staple, Wire-fence. H. Lake. 1,736,707; Nov. 19.
- Stapling device. J. G. Bates. 1,735,195; Nov. 12.
- Stapling device. E. F. Hulbert. 1,711,683; May 7.
- Stapling device. M. Vogel. 1,740,322; Dec. 17.
- Stapling machine. W. Irvine. 1,731,379; Oct. 15.
- Stapling machine. A. Z. Kruse. 1,705,819; Mar. 19.
- Stapling machine. A. Z. Kruse. 1,708,730; Apr. 9.
- Stapling machine. C. F. Kuch, jr. 1,704,507; Mar. 5.
- Stapling machine. F. E. Lawrence. 1,708,274; Apr. 9.
- Stapling machine. F. L. Manny. 1,718,571; June 25.
- Stapling machine. Z. E. Russell. 1,704,517; Mar. 5.
- Stapling machine. A. D. Tibbals. 1,713,011; May 14.
- Stapling machines, Work-locating device for. F. Folzer. 1,704,444; Mar. 5.
- Stapling means. J. B. Crofoot. 1,732,001; Oct. 15.
- Starch-conversion product. D. J. Block. 1,733,574; Oct. 29.
- Starch from sweet potatoes, Production of. O. Riemann. 1,735,976; Nov. 19.
- Starter. D. T. Brownlee. 1,700,694; Jan. 29.
- Starter. C. J. W. Hayes. 1,700,130; Jan. 29.
- Starter and driving means for mechanism, Combined engine. R. P. Lansing. 1,730,220; Oct. 1.
- Starter and generator unit, Engine. H. Ford. 1,716,627; June 11.
- Starter, Automatic motor. H. W. Cheney. 1,740,070; Dec. 17.
- Starter-control mechanism for gas engines. S. J. Boughton. 1,714,944; May 28.
- Starter, Engine. R. Abell. 1,705,464; Mar. 19.
- Starter, Engine. R. Abell and J. Crawford. 1,732,294; Oct. 22.
- Starter, Engine. V. Bendix. 1,716,413; June 11.
- Starter, Engine. W. S. Deans. 1,711,139; Apr. 30.
- Starter, Engine. G. W. Elsey. 1,739,028; Dec. 10.
- Starter, Engine. S. Jencick. 1,710,986; Apr. 30.
- Starter, Engine. C. H. Kindl. 1,709,079; Apr. 16.
- Starter, Engine. R. P. Lansing. 1,709,027; Apr. 16.
- Starter, Engine. R. P. Lansing. 1,709,585-6; Apr. 16.
- Starter, Engine. R. P. Lansing. 1,726,397; Aug. 27.
- Starter, Engine. R. P. Lansing. 1,739,469-70; Dec. 10.
- Starter, Engine. W. L. McGrath. 1,705,938-9; Mar. 19.
- Starter, Engine. W. L. McGrath. 1,707,488; Apr. 2.
- Starter, Engine. W. L. McGrath. 1,718,424; June 25.
- Starter, Engine. W. L. McGrath. 1,723,291; Aug. 6.
- Starter, Engine. W. L. McGrath. 1,737,802; Dec. 3.
- Starter, Engine. M. P. Whitney. 1,721,241; July 16.
- Starter for automobiles. W. C. Starkey. 1,727,793; Sept. 10.
- Starter for engines. M. B. Jackson. 1,705,252; Mar. 12.
- Starter for engines. M. B. Jackson. 1,736,600; Nov. 19.
- Starter for engines. M. B. Jackson. 1,736,765; Nov. 19.
- Starter for engines. F. Jerdone, Jr. 1,735,250; Nov. 12.
- Starter for internal-combustion engines. J. Hasselbring, jr. 1,739,069; Dec. 10.
- Starter for internal-combustion engines. J. MacBlane. 1,720,962; July 16.
- Starter for internal-combustion engines, Automatic. C. Ide. 1,705,816; Mar. 19.
- Starter for internal-combustion engines, Electric. R. L. Aspden. 1,734,955; Nov. 12.
- Starter for internal-combustion motors. F. A. Vastano. 1,700,750; Feb. 5.
- Starter for internal-combustion motors. F. A. Vastano. 1,727,086; Sept. 3.
- Starter mechanism for engines. R. H. Chilton. 1,712,649; May 14.
- Starter, Motor. J. T. Sibley. 1,723,084; Aug. 6.
- Starter motor drive. W. C. Schneider. 1,741,251; Dec. 31.
- Starter, Mule. J. Riley. 1,712,170; May 7.
- Starting and generating apparatus for liquid-fuel burners. C. B. Overly. 1,730,589; Oct. 8.
- Starting and reversing means, Compressed-air. A. U. S. Danielsson. 1,706,773; Mar. 26.
- Starting apparatus, Engine-. W. A. Chryst. 1,720,945; July 16.
- Starting apparatus, Engine-. G. W. Elsey. 1,726,548; Sept. 3.
- Starting apparatus, Engine-. F. D. Funston. 1,720,951; July 16.
- Starting apparatus, Engine. R. P. Lansing. 1,741,370; Dec. 31.
- Starting apparatus, Ignition-. W. A. Chryst. 1,729,761; Oct. 1.
- Starting block. A. M. Barron. 1,709,832; Apr. 23.



- Starting box. E. O. Hamilton. 1,723,779; Aug. 6.  
 Starting box. H. B. Staver. 1,715,254; May 28.  
 Starting box for dog race tracks. G. R. Young. 1,713,414; May 14.  
 Starting device for electric motors. F. Diehl. 1,709,935; Apr. 23.  
 Starting device for internal-combustion engines. F. Kesseling. 1,724,941; Aug. 20.  
 Starting device for race tracks. R. C. Stewart. 1,698,661; Jan. 8.  
 Starting mechanism. H. G. Steinmetz. 1,737,868; Dec. 3.  
 Starting of internal-combustion engines, Arrangement for facilitating the. F. Müller. 1,739,084; Dec. 10.  
 Starting panel for electric motors. P. R. Oliver. 1,712,967; May 14.  
 Starting switch. O. W. Bricker. 1,702,590; Feb. 19.  
 Starting switch, Automatic. R. J. Mackie. 1,729,622; Oct. 1.  
 Starting the motors of multimotor drives. G. E. Grau. 1,721,079; July 16.  
 Static absorber. W. H. Cox. 1,712,294; May 7.  
 Static disturbances, Method and apparatus for elimination of. F. W. Kranz. 1,728,617; Sept. 17.  
 Static electricity eliminator for vehicles. A. D. Crothers. 1,709,779; Apr. 16.  
 Static electricity, Removing. H. H. Olmstead. 1,728,167; Sept. 10.  
 Static eliminator. O. C. Friede. 1,715,414 June 4.  
 Static eliminator. A. Lathrop. 1,722,963; July 30.  
 Static eliminator. H. L. Thompson. 1,731,030; Oct. 8.  
 Static eliminator for radio equipment. R. U. Brown. 1,723,464; Aug. 6.  
 Stationcometer. D. J. Morton. 1,733,510; Oct. 29.  
 Station apparatus, Central-. F. R. Taisey. 1,730,832; Oct. 8.  
 Station, Automatic. C. C. Levy. 1,726,908; Sept. 3.  
 Station indicator. W. A. Andersen. 1,714,341; May 21.  
 Station indicator. C. Dunn. 1,706,876; Mar. 26.  
 Station indicator. H. M. Ocko. 1,729,451; Sept. 24.  
 Station indicator. G. Puskás. 1,735,791; Nov. 12.  
 Station indicator, Automatic. A. Corso. 1,716,575; June 11.  
 Station indicator, Automatic. A. G. Guastello. 1,738,241; Dec. 3.  
 Station indicator, Electric. M. P. Martinez. 1,741,371; Dec. 31.  
 Station, Launching and landing. J. S. Fox. 1,709,069; Apr. 16.  
 Station-signal device, Automatic. J. Maldonado. 1,710,545; Apr. 23.  
 Statuette. F. H. Anderson. Des. 75,060; July 30.  
 Statuette. S. I. Berger. Des. 78,188; Apr. 9.  
 Statuette. H. A. Daake. Des. 77,640; Feb. 5.  
 Statuette. A. Fiori. Des. 77,681; Feb. 12.  
 Statuette. M. C. Gresham. Des. 79,515; Oct. 1.  
 Statuette. J. Y. Jenkins. Des. 77,838; Feb. 26.  
 Statuette. M. Rowell. Des. 77,860; Feb. 26.  
 Statuette. W. E. Winn. Des. 79,397; Sept. 10.  
 Stave-finishing machine. A. M. Walstrom. 1,717,901; June 18.  
 Stave for bulged barrels and caskets, Dovetailed. E. A. Bollender. 1,706,477; Mar. 26.  
 Stay bolts, Manufacture of. H. M. Curry, jr. and L. Finegan. 1,711,196; Apr. 30.  
 Stay for washable rugs. W. B. Mason. 1,706,672; Mar. 26.  
 Stay, Miner's. J. Wüstenhöfer. 1,736,301; Nov. 19.  
 Stay or strut for hinged lids of gramophone or other cabinets. A. L. Collins. 1,710,570; Apr. 23.  
 Steady rest. J. Hoozerhyde. 1,729,111; Sept. 24.  
 Steam and lubricant to engine cylinders, Automatic apparatus for supplying. R. Wood. 1,738,549; Dec. 10.  
 Steam board. H. Betke. 1,739,571; Dec. 17.  
 Steam boiler. C. T. Carlson. 1,739,502; Dec. 17.  
 Steam boiler. C. F. Clemens and A. H. Kemper. 1,704,788; Mar. 12.  
 Steam boiler. C. F. Clemens and A. H. Kemper. 1,738,817; Dec. 10.  
 Steam boiler. H. Gleichmann. 1,732,439; Oct. 22.  
 Steam boiler. H. C. Heaton. 1,725,798; Aug. 27.  
 Steam boiler. D. S. Jacobus. 1,704,388; Mar. 5.  
 Steam boiler. D. S. Jacobus. 1,729,260; Sept. 24.  
 Steam boiler. D. S. Jacobus. 1,739,760; Dec. 17.  
 Steam boiler. A. H. Kemper and W. H. Durkin. 1,741,633; Dec. 31.  
 Steam boiler. G. Lasker. 1,733,808; Oct. 29.  
 Steam boiler. W. S. Monroe. 1,707,638; Apr. 2.  
 Steam boiler. R. T. Mussett. 1,710,709; Apr. 30.  
 Steam boiler. J. A. Pilcher and J. A. Doornberger. 1,737,385; Nov. 26.  
 Steam boiler. H. B. Smith. 1,734,983; Nov. 12.  
 Steam boiler. P. Trainor. 1,702,369; Feb. 19.  
 Steam boiler. E. H. Vincent. 1,714,829; May 28.  
 Steam boiler. W. H. Winslow. 1,735,345; Nov. 12.  
 Steam boiler. J. B. Wood. 1,719,385; July 2.  
 Steam-boiler draft-increasing device. A. Chapelon. 1,699,134; Jan. 15.  
 Steam-boiler furnace. H. J. Kerr. 1,733,156; Oct. 29.  
 Steam-boiler furnace. A. McVay. 1,709,535; Apr. 16.  
 Steam boiler, High-pressure. O. H. Hartmann and P. Thomsen. 1,716,053; June 4.  
 Steam condenser. A. R. Smith. 1,738,455; Dec. 3.  
 Steam connection. C. W. Daugh. 1,697,261; Jan. 1.  
 Steam-control device. G. Menz. 1,725,011; Aug. 20.  
 Steam engine. J. Kennedy. 1,703,274; Feb. 26.  
 Steam engine. F. D. Levering. 1,721,225; July 16.  
 Steam engine. R. F. Metcalfe. 1,698,817; Jan. 8.  
 Steam engine. M. H. Roberts. 1,731,440; Oct. 15.  
 Steam engine, Rotary. W. D. Ballerstedt. 1,715,490; June 4.  
 Steam fan drier. W. M. Coffield and T. C. Moore. 1,738,640; Dec. 10.  
 Steam fitting. A. Aldrich and E. E. Berry. 1,716,910; June 11.  
 Steam fitting for journals of rotary steam cylinders or the like. A. Aldrich and E. E. Berry. 1,718,209; June 25.  
 Steam-gauge bracket. J. E. Miller. 1,717,803; June 18.  
 Steam-generating installation. F. Lösel. 1,736,411; Nov. 19.  
 Steam-generating means for oil burners. L. G. de Kermor. 1,716,430; June 11.  
 Steam-generating plants, Regulating mechanism for. J. A. Wiener. 1,734,702; Nov. 5.  
 Steam generation. V. Z. Caracristi. 1,724,560; Aug. 13.  
 Steam generation. P. Faber. 1,723,340; Aug. 6.  
 Steam generation. E. Lundgren. 1,734,683; Nov. 5.  
 Steam generator. S. Anderson. 1,703,565; Feb. 26.  
 Steam generator. W. E. Baker. 1,712,806; May 14.  
 Steam generator. J. E. Bell. 1,732,428; Oct. 22.  
 Steam generator. J. T. Cullen, jr. 1,740,337; Dec. 17.  
 Steam generator. J. H. Helms. 1,728,966; Sept. 24.  
 Steam generator. E. W. Larsen. 1,708,674; Apr. 9.  
 Steam generator. R. A. Norton. 1,707,920; Apr. 2.  
 Steam generator. M. Robinson. 1,736,462; Nov. 19.  
 Steam generator. E. J. Rowan. 1,741,657; Dec. 31.  
 Steam generator. E. V. Varcoe. 1,727,458; Sept. 10.  
 Steam generator. W. R. Wood. 1,736,423; Nov. 19.  
 Steam generator, Rotary. J. V. Blomquist. 1,697,551; Jan. 1.  
 Steam heater, Electric. A. F. Maley. 1,711,609; May 7.  
 Steam injector. R. G. Brooke. 1,710,566; Apr. 23.  
 Steam injector. L. Friedmann. 1,726,552; Sept. 3.  
 Steam injector, Exhaust-. H. Deutsch. 1,697,906; Jan. 8.  
 Steam injector, Exhaust-. J. F. Griffin. 1,733,259; Oct. 29.  
 Steam injector, Exhaust-. J. F. Griffin. 1,738,824; Dec. 10.  
 Steam in steam-generating installations for high pressure and highly-superheated steam, Superheating of. O. H. Hartmann. 1,723,697; Aug. 6.  
 Steam or other fluid engine. A. A. Wilton van Reede, Corneliszoon. 1,719,757; July 2.  
 Steam or other vapors, Apparatus for supplying. P. M. Cabell. 1,737,826; Dec. 3.  
 Steam plant. J. Ruths. 1,700,649; Jan. 29.  
 Steam plant. J. Ruths. 1,700,651; Jan. 29.  
 Steam plant. J. Ruths. 1,723,302; Aug. 6.  
 Steam plant. F. Wettstein. 1,700,650; Jan. 29.  
 Steam-plant reserve, Stationary. J. Ruths and N. H. Frenne. 1,700,648; Jan. 29.  
 Steam-power plant. M. Bäckström and C. Föhl. 1,726,730; Sept. 3.  
 Steam power plant. C. B. Page, W. D. Burton, K. A. Mayr and R. E. White. 1,732,587; Oct. 22.  
 Steam-pressing appliance, Electric. C. A. Brewer. 1,736,148; Nov. 19.  
 Steam presses, Operative mechanism for. H. H. McDermott. 1,722,638; July 30.  
 Steam purifier. G. H. Gibson. 1,730,133; Oct. 1.  
 Steam scoring machine for ice. E. S. Henry. 1,737,308; Nov. 26.  
 Steam separator. W. Alexander. 1,703,917; Mar. 5.  
 Steam separator. W. S. A. Backhouse. 1,718,272; June 25.  
 Steam separator. G. D. Bradshaw. 1,738,756; Dec. 10.  
 Steam separator. W. Kerr. 1,726,840; Sept. 3.  
 Steam separator, Exhaust-. C. G. Hawley. 1,725,711; Aug. 20.  
 Steam shut-off, Automatic. C. L. Nichols. 1,699,908; Jan. 22.  
 Steam superheater. H. Cruse. 1,708,054; Apr. 9.  
 Steam superheater. A. Winogradow. 1,707,453; Apr. 2.  
 Steam, Superheating. J. E. Bell. 1,732,395; Oct. 22.  
 Steam-superheating plant. C. H. Goodrich. 1,738,890; Dec. 10.  
 Steam-superheating system. T. Larrey and L. Godard. 1,697,123; Jan. 1.  
 Steam systems, Apparatus for utilizing drip in high-pressure. C. W. E. Clarke. 1,701,143; Feb. 5.  
 Steam table. A. Peron. 1,697,472; Jan. 1.  
 Steam to internal-combustion engines, Apparatus for supplying. P. M. Cabell. 1,739,749; Dec. 17.  
 Steam to steam tables, Apparatus for supplying. J. F. Robbins. 1,699,811; Jan. 22.  
 Steam trap. G. Bezanon. 1,727,324; Sept. 10.  
 Steam trap. A. W. Honeywill, jr. 1,698,097; Jan. 8.  
 Steam trap. F. L. Jahn. 1,739,311; Dec. 10.  
 Steam trap. J. W. Kaye. 1,710,877; Apr. 30.  
 Steam trap. A. L. Mengin. 1,708,655; Apr. 9.  
 Steam trap. L. A. H. Merribevy. 1,704,398; Mar. 5.  
 Steam trap. E. S. Sandberg. 1,714,925; May 28.  
 Steam trap. L. P. Strong. 1,697,887; Jan. 8.  
 Steam trap. H. O. Trelice. 1,701,936; Feb. 12.  
 Steam trap. P. Walter. 1,738,809; Dec. 10.  
 Steam trap, connection, and valve therefor. C. W. Hebert. 1,721,483; July 16.  
 Steam trap, Pumping. H. G. Shortt. 1,719,906; July 9.  
 Steam-turbine stage. G. Forner. 1,697,174; Jan. 1.  
 Steamer. J. B. Dickson and W. L. Amy. 1,719,322; July 2.  
 Steamer. G. J. Keiper. 1,714,311; May 21.  
 Steamer. W. L. Martin. 1,723,247; Aug. 6.



- Steamer and shrinker for tubular fabrics. M. M. Kasanof. 1,723,939; Aug. 6.
- Steamer for removing cream and sterilizing cream cans. L. Brauer and R. and C. Truner. 1,717,182; June 11.
- Steamer roaster. L. J. Hois. 1,737,240; Nov. 26.
- Steaming and air-cooling machine. Mantle. E. H. Marble. 1,738,837; Dec. 10.
- Steaming and pressing machine. M. A. High. 1,732,890; Oct. 22.
- Steaming apparatus. S. C. Markatos. 1,717,110; June 11.
- Steaming device for hats. H. E. Page. 1,716,735; June 11.
- Steaming device. Milk-can. J. A. Dary. 1,722,077; July 23.
- Steaming fabrics and furs. Apparatus for. N. Bloom and J. and F. Neff. 1,720,165; July 9.
- Steaming iron. Portable electrically-heated. J. F. Topinka and F. B. Jedlicka. 1,710,037; Apr. 23.
- Steaming of hats. Means applicable for use in the. E. Sydney. 1,720,978; July 16.
- Steaming tube for permanent waving. P. E. Herrmann. 1,714,872; May 28.
- Steamships. Closed feed system for. J. Sim. 1,723,257; Aug. 6.
- Steel. W. C. Hamilton and C. E. Sims. 1,721,555; July 23.
- Steel. Alloy. J. P. Gill. 1,727,232; Sept. 3.
- Steel. Alloy. F. F. McIntosh. 1,730,780; Oct. 8.
- Steel annealing. Sheet. P. A. Meehan. 1,703,630; Feb. 26.
- Steel bars. Manufacture of shapes from. J. J. Mascuch. 1,728,622; Sept. 17.
- Steel billets for forging. Preparing. H. G. Stoddard. 1,724,323; Aug. 13.
- Steel billets. Removing defects from. R. M. Rooke, jr. 1,732,912; Oct. 22.
- Steel. Case nitridation of. A. B. Kinzel. 1,736,921; Nov. 26.
- Steel-coated board. H. C. Harvey. 1,719,607; July 2.
- Steel-condition-determining apparatus. W. C. Neahr. 1,728,358; Sept. 17.
- Steel. Fabricating structural. E. D. Coddington. 1,715,694; June 4.
- Steel form. Collapsible. S. E. Murray. 1,734,773; Nov. 5.
- Steel framework. Structural. J. A. Larkin. 1,726,844; Sept. 3.
- Steel. Handling sheet. H. W. Stahlhut. 1,708,854; Apr. 9.
- Steel. Hardening. S. I. Salzman. 1,732,244; Oct. 22.
- Steel. Hardening high-speed. W. Stauffer. 1,731,549; Oct. 15.
- Steel. High-phosphorus scale-resisting. F. R. Palmer. 1,707,364; Apr. 2.
- Steel. Hollow drill. L. Pryce. 1,697,086; Jan. 1.
- Steel insert for store counters. W. N. Vance. 1,739,809; Dec. 17.
- Steel. Low-carbon chromium. H. C. Bigge and C. R. Ellicott. 1,715,979; June 4.
- Steel lumber. W. C. Jones. 1,701,303-4; Feb. 5.
- Steel. Making. T. F. Bally. 1,739,278; Dec. 10.
- Steel. Making. F. W. Davis. 1,735,074; Nov. 12.
- Steel. Making expander. G. C. Beck. 1,741,907; Dec. 31.
- Steel. Making rimming. D. Williams and M. A. Grossmann. 1,727,088; Sept. 3.
- Steel. Making vanadium. A. L. Feild. 1,697,759; Jan. 1.
- Steel members. Manufacture of rolled. N. Das Chopra and F. J. Bullen. 1,712,251-2; May 7.
- Steel nail bin. J. H. Ganzer. 1,732,437; Oct. 22.
- Steel or iron pillar particularly adapted for mounting electric wires. I. Nozawa. 1,707,871; Apr. 2.
- Steel products. Manufacture of. R. A. Hadfield. 1,704,385; Mar. 5.
- Steel resistant to acids. Stable-surface alloy. R. P. De Vries and H. A. De Fries. 1,712,030; May 7.
- Steel retainer. L. C. Bayles and G. G. Tuttle. 1,708,116; Apr. 9.
- Steel retainer. F. M. Slater. 1,729,668; Oct. 1.
- Steel retainer. Drill. A. H. Skaer. Re17,300; May 21.
- Steel running board. W. J. Spiro. 1,732,994; Oct. 22.
- Steel. Sectional drill. J. L. Barra. 1,733,392; Oct. 29.
- Steel sheets. Making ductile high-silicon. R. R. Curry. 1,739,126; Dec. 10.
- Steel-spoke wheel. W. E. Williams. 1,711,628; May 7.
- Steel structures. Form spacer for concrete fireproofing for. W. A. Ferris. 1,735,198; Nov. 12.
- Steel wheel. Disk. G. H. Forsyth. Re17,332; June 25.
- Steel wool. W. H. Robbins. 1,698,512; Jan. 8.
- Steel-wool article for cleansing and abrading purposes. W. H. Robbins and W. C. Lohman. 1,697,964; Jan. 8.
- Steel-wool machine. W. H. Robbins and H. Converse. 1,725,305; Aug. 20.
- Steel-wool pad. W. H. Robbins and E. E. Kimberley. 1,702,365; Feb. 19.
- Steel-wool-pad making. W. H. Robbins and E. E. Kimberley. 1,715,389; June 4.
- Steel-wool-removing drum. W. H. Robbins. 1,703,247; Feb. 26.
- Steels and nitriding same. Molybdenum nitriding. H. A. De Fries. 1,723,015; Aug. 6.
- Steering of winged aircraft. A. Ehrlich. 1,702,645; Feb. 19.
- Steering apparatus. J. E. Wright. 1,731,553; Oct. 15.
- Steering apparatus for motor-driven vehicles. E. J. Armstrong. 1,717,598; June 18.
- Steering apparatus for motor vehicles. F. W. Burger and B. Stockfleth. 1,711,228; Apr. 30.
- Steering belts. Method and apparatus for. J. G. Callan. 1,714,846; May 28.
- Steering-column lock. Automatic. A. P. Tredway. 1,700,864; Feb. 5.
- Steering control for endless traction cranes. H. E. Brey. 1,717,757; June 18.
- Steering device. A. B. Cadman. 1,701,296; Feb. 5.
- Steering device. Automatic. N. Minorsky. 1,703,317; Feb. 26.
- Steering for dirigible craft. Automatic. E. A. Sperry, jr. 1,730,951; Oct. 8.
- Steering gear. A. G. Henricks. 1,710,686; Apr. 30.
- Steering gear. W. L. Lueck. 1,704,863; Mar. 12.
- Steering gear. W. C. Rodd. 1,718,582; June 25.
- Steering gear. F. E. Sharp. 1,704,766; Mar. 12.
- Steering-gear assembly. H. M. Denyes. 1,703,301; Feb. 26.
- Steering-gear attachment. R. E. Flathers. 1,739,832; Dec. 17.
- Steering-gear check. H. Austin. 1,716,411; June 11.
- Steering-gear check. S. A. Stranahan. 1,713,242; May 14.
- Steering-gear construction. J. L. Yarian. 1,726,971; Sept. 3.
- Steering gear for mechanically-propelled vehicles and the like. H. Marles. 1,720,911; July 16.
- Steering gear for road graders. F. E. Arndt. 1,700,015; Jan. 22.
- Steering gear. Two-speed. G. I. Goodwin. 1,717,681; June 18.
- Steering gears. Control assembly for. D. E. Ross. 1,721,791-2; July 23.
- Steering indicator for aircraft. G. Wunsch. 1,729,850; Oct. 1.
- Steering-joint assembly. G. H. Hufford. 1,733,599; Oct. 29.
- Steering means. C. S. Padgett. 1,739,856; Dec. 17.
- Steering mechanism. J. H. Hunt. 1,737,048; Nov. 26.
- Steering mechanism. D. G. Mackenzie. 1,697,319; Jan. 1.
- Steering mechanism. L. Oldfield. 1,732,536; Oct. 22.
- Steering mechanism. C. R. Paton. 1,727,378; Sept. 10.
- Steering mechanism. J. J. Richardson. 1,709,232; Apr. 16.
- Steering mechanism. C. R. Short. 1,712,940; May 14.
- Steering mechanism. J. A. Wright. 1,723,537; Aug. 6.
- Steering mechanism and the like. T. A. Banning, jr. 1,710,399; Apr. 23.
- Steering mechanism. Attachment for. A. H. Worrest. 1,720,870; July 16.
- Steering mechanism for crawling traction devices. B. Jacoby, D. J. Shelton, B. S. Ferguson, and F. Jennings. 1,701,006; Feb. 5.
- Steering mechanism for locomotive cranes. R. S. Moore. 1,721,667; July 23.
- Steering mechanism for power shovels. R. H. Sechrist. 1,705,269; Mar. 12.
- Steering mechanism for power shovels. D. J. Shelton. 1,701,016; Feb. 5.
- Steering mechanism for power shovels of the traction-belt type. D. J. Shelton and C. A. Weber. 1,701,594; Feb. 12.
- Steering mechanism for self-propelled vehicles. F. H. Royce. 1,700,598; Jan. 29.
- Steering mechanism for spring-supported vehicles. O. F. Lundelius and M. N. Lefler. 1,737,856; Dec. 3.
- Steering mechanism for tractors. E. J. Wilson. 1,732,626; Oct. 22.
- Steering mechanism for trailers. R. S. Langdon. 1,733,544; Oct. 29.
- Steering mechanism for vehicles. B. Stockfleth and F. W. Burger. 1,711,224; Apr. 30.
- Steering mechanism. Gyroscopic. W. Dieter. 1,718,539; June 25.
- Steering mechanism. Hydraulic. A. H. Antrainer and D. B. Ryan. 1,721,171; July 16.
- Steering mechanism. Hydraulic. W. Kirkbride. 1,723,789; Aug. 6.
- Steering mechanism. Power. E. C. Myers. 1,731,056; Oct. 8.
- Steering mechanism. Power. H. C. Suckert. 1,711,662; May 7.
- Steering mechanism. Vehicle. M. A. Cover. 1,704,312; Mar. 5.
- Steering-post column. J. R. Hughes. 1,714,786; May 28.
- Steering-post control. C. Brüsselbach. 1,729,926; Oct. 1.
- Steering post for automobiles. Adjustable. J. T. Hughes. 1,703,485; Feb. 26.
- Steering-rod connection. E. J. Gulick. 1,704,740; Mar. 12.
- Steering wheel. C. W. Beck. 1,723,004-5; Aug. 6.
- Steering wheel. C. W. Beck. 1,740,387; Dec. 17.
- Steering wheel. H. D. Geyer. 1,719,008; July 2.
- Steering wheel. P. L. J. B. Lambert. 1,720,737; July 16.
- Steering wheel. L. C. Lazear. 1,714,914; May 28.
- Steering wheel. H. J. Sewell and V. Y. Talberg. 1,729,016; Sept. 24.
- Steering wheel and forming same. G. E. Smith. 1,740,750; Dec. 24.
- Steering wheel and making the same. Wooden. G. E. Smith. 1,697,616; Jan. 1.
- Steering wheel. Auto. W. E. Binkley. 1,714,155; May 21.
- Steering-wheel brake. N. A. Christensen. 1,708,053; Apr. 9.
- Steering-wheel brake. W. Noble. 1,729,841; Oct. 1.
- Steering-wheel brake. R. W. Todd. 1,700,575; Jan. 29.
- Steering-wheel brake for vehicles. D. T. McHenry. 1,701,504; Feb. 12.



- Steering-wheel device for automobile vehicles. M. Mantout. 1,722,151; July 23.
- Steering wheel for automobiles, Monolithic. J. Blackburn. 1,724,001; Aug. 13.
- Steering-wheel knob. P. R. Oliver. 1,735,783; Nov. 12.
- Steering-wheel lock. J. M. Darby. 1,729,505; Sept. 24.
- Steering-wheel lock. J. H. Scheer. 1,730,166; Oct. 1.
- Steering wheel, Relief. I. M. Thomas. 1,726,459; Aug. 27.
- Steering wheel, Shock-absorbing. L. F. Kidd. 1,716,856; June 11.
- Steering wheel, Tilttable. J. G. McJury. 1,709,085; Apr. 16.
- Steering wheel, Tractor. G. T. King. 1,702,009; Feb. 12.
- Stem for lighting fixtures. A. E. De Karske. 1,710,532; Apr. 23.
- Stemming fruits, Apparatus for. L. A. Babcock. 1,734,788; Nov. 5.
- Stemming, peeling, and trimming head, Rotary fruit and vegetable. R. Combest. 1,720,468; July 9.
- Stencil. R. Z. Hopkins and E. F. Seger. 1,735,004; Nov. 12.
- Stencil. L. W. Wagner. 1,733,438; Oct. 29.
- Stencil and making the same. L. C. Doane. 1,708,084; Apr. 9.
- Stencil-cutting device. E. K. Abel. 1,731,088; Oct. 8.
- Stencil device. E. Ross. 1,739,173; Dec. 10.
- Stencil, Dry. H. H. Hawling. 1,720,897; July 16.
- Stencil duplicator. F. C. Gottschalk. 1,713,826; May 21.
- Stencil receiver. H. P. Elliott. 1,728,200; Sept. 17.
- Stencil sheet. R. Damme. 1,719,926; July 9.
- Stencil sheet. S. Horii. Re17,267; Apr. 9.
- Stencil sheet. S. Horii. 1,729,072; Sept. 24.
- Stencil sheet and backing. W. H. Kurth. 1,741,029; Dec. 24.
- Stencil-tempering device. W. A. Saul. 1,713,451; May 14.
- Stencil unit and assembling the same. S. J. Gianelloni, Jr. 1,708,968; Apr. 16.
- Stenciling. J. C. Zubli. 1,719,459; July 2.
- Stenciling pasting machine, Adjustable rotary. J. G. Huye. 1,731,307; Oct. 15.
- Stencils, Forming. F. W. Menzer. 1,698,166; Jan. 8.
- Stencils, Process and apparatus for making. E. C. Booth. 1,715,350; June 4.
- Step and repeat machine. O. Chouinard. 1,714,589; May 28.
- Step and stool, Combination nursery. W. M. Street. 1,700,959; Feb. 5.
- Step for stilts, Adjustable. E. L. Byles. 1,710,293; Apr. 23.
- Step, Pole. C. L. Peirce, Jr. 1,740,873; Dec. 24.
- Stepladder. F. A. Davidson. 1,702,249; Feb. 19.
- Stepladder. F. C. Knuth. 1,714,028; May 21.
- Stepladder and chair, Extensible. R. H. Ireland. 1,723,938; Aug. 6.
- Stepladder, Child's. G. A. Muller. Des. 78,040; Mar. 19.
- Stepladder, Combination. J. A. Gronow. 1,711,888; May 7.
- Stepladder, Extensible. H. Hill. 1,712,435; May 7.
- Stereopticon apparatus. A. S. Clapp. 1,719,391; July 2.
- Stereopticons, Slide-carrier attachment for. J. B. Barron. 1,728,589; Sept. 17.
- Stereoscope. B. L. Singley. Des. 77,871; Feb. 26.
- Stereoscope. B. L. Singley. 1,703,787; Feb. 26.
- Stereoscopes, View changer for. E. P. Cressler. 1,736,071; Nov. 19.
- Stereoscopic color-cinematographic apparatus. G. Griffith. 1,705,760; Mar. 19.
- Stereoscopic exhibiting machine. P. C. Smith. 1,722,114; July 23.
- Stereoscopic film or plate pack. E. P. Cressler. 1,713,330; May 14.
- Stereoscopic Röntgen-ray fluoroscopy, Device for. F. Bornhardt. 1,735,726; Nov. 12.
- Stereotype mats, Making. L. W. Schorger. 1,720,243; July 9.
- Stereotypes, Production of. E. S. Hole. 1,726,161; Aug. 27.
- Stereotyping apparatus. J. B. Lacy. 1,718,566; June 25.
- Stereotyping apparatus. J. A. Luther. 1,736,351; Nov. 19.
- Sterilization and food activation. J. W. D. Chesney. 1,723,603; Aug. 6.
- Sterilization of food products. G. Grindrod. 1,714,597; May 28.
- Sterilization of liquids. C. A. Hartung. 1,714,366; May 21.
- Sterilizer. F. S. Weber. 1,697,335; Jan. 1.
- Sterilizer, Electric. C. F. Lauderdale. 1,699,001; Jan. 15.
- Sterilizer for toilet seats and the like. L. B. Grafani and R. E. Peterson. 1,741,622; Dec. 31.
- Sterilizer, Rubber-glove. W. B. Underwood. 1,702,673; Feb. 19.
- Sterilizing. D. Crowther. 1,728,333; Sept. 17.
- Sterilizing air. J. F. Schiller and W. W. Wescott. Mar. 26.
- Sterilizing air, Apparatus for. J. F. Schiller and W. W. Wescott. 1,736,839; Nov. 26.
- Sterilizing apparatus. D. Crowther. 1,728,334; Sept. 17.
- Sterilizing flowing water, Apparatus and process of. G. G. Earl. 1,710,301; Apr. 23.
- Sterilizing food products. J. W. Parcell. 1,708,105; Apr. 9.
- Sterilizing gauge glass for sterilizers or the like. G. A. Gallowitz. 1,720,830; July 16.
- Sterilizing liquid substances. F. C. Huygen. 1,709,175; Apr. 16.
- Sterilizing liquids, Apparatus for. H. B. Rudd. 1,730,016; Oct. 1.
- Sterilizing substances. H. J. Kratzer. 1,711,097; Apr. 30.
- Stern motor. R. K. Campbell. 1,725,252; Aug. 20.
- Sterols, Manufacture of. A. Gams and F. Locher. 1,733,009; Oct. 22.
- Stethoscope. C. J. Pilling. 1,708,398; Apr. 9.
- Stethoscope, Motor. E. O. Woelcke. 1,708,992; Apr. 16.
- Stick or similar object usable as a seat, Folding walking. E. Buz. 1,704,683; Mar. 5.
- Stick seat. B. Brooks. 1,697,552; Jan. 1.
- Sticker placer. F. W. Horstkotte. 1,705,570; Mar. 19.
- Stickpin and making the same. W. T. Abel. 1,698,575; Jan. 8.
- Stiffener for soft collars. J. Sarandese. 1,740,270; Dec. 17.
- Stiffener, Resilient shank. J. A. Brogan. 1,706,478; Mar. 26.
- Stiffeners for boots and shots, Apparatus for making. D. B. Macdonald. 1,715,299; May 28.
- Stiffening members on sirocco fan casing. C. T. Morse. 1,705,200; Mar. 12.
- Still. E. H. Records. 1,710,070; Apr. 23.
- Still, Bubble. C. F. Braun. 1,725,052; Aug. 20.
- Still construction. W. H. Pavitt. 1,723,657; Aug. 6.
- Still, Cracking. G. L. Prichard and H. Henderson. 1,734,827; Nov. 5.
- Still, Oil. C. L. Parmelee. 1,736,325; Nov. 19.
- Still or the like. J. F. Donnelly. 1,714,855; May 28.
- Stills, Cooler for. V. R. Rostek. 1,727,179; Sept. 3.
- Stills, Operation of pressure. J. E. Bell. 1,741,276; Dec. 31.
- Stilt. L. Petersen. 1,708,030; Apr. 9.
- Stimulating the germination of seeds and other vegetable matter and in stimulated vegetable matter. M. Popoff. 1,703,362; Feb. 26.
- Stippling machine. V. Pino. 1,723,206; Aug. 6.
- Stirrer. E. C. Goodell. 1,710,417; Apr. 23.
- Stirring device. C. E. Farrington. 1,734,120; Nov. 5.
- Stirring device for liquids. J. M. Vogel. 1,701,649; Feb. 12.
- Stirring device, Kettle. H. C. Meyer. 1,723,194; Aug. 6.
- Stirring, kneading, and mixing machine. F. Aeschbach. 1,714,750; May 28.
- Stirrup for weighing scales, Steelyard. T. H. Strachan. 1,738,932; Dec. 10.
- Stitch remover. R. Palmer. 1,719,304; July 2.
- Stitching device for tire-building machines. F. T. Cardarelli and A. La Barre. 1,718,633; June 25.
- Stitching device, Turn-under. W. F. Irrgang. 1,716,585; June 11.
- Stitching machine. E. W. Belluche. 1,733,328; Oct. 29.
- Stitching machine. J. B. Gury, Jr. 1,714,021; May 21.
- Stitching machine. G. L. Richardson and W. Pabich. 1,712,843; May 14.
- Stitching machine, Mattress-side. J. F. Gail. 1,706,025; Mar. 19.
- Stitching machine, Stitch-controlled. J. F. Gail. 1,731,001; Oct. 8.
- Stitching machines, Work-feeding mechanism for. S. Bergstein and A. Linder. 1,722,952; July 30.
- Stitching mechanism for sewing machines. J. Berger. 1,717,180; June 11.
- Stitching plate, Storm-welt. E. H. Boatman and H. D. Sonnenberg. 1,723,994; Aug. 13.
- Stock assembling device. W. C. Stevens. 1,730,307; Oct. 1.
- Stock feeding and adjusting device. A. R. Krause. 1,731,537; Oct. 15.
- Stock guiding and feeding mechanism. F. T. Seibert. 1,713,678; May 21.
- Stock indicator. H. Miller. 1,725,364; Aug. 20.
- Stock-quotation-projecting machine. B. A. Proctor. 1,738,313; Dec. 3.
- Stock ticker. H. B. Goodstein. 1,731,376; Oct. 15.
- Stock-treating machine. F. M. Furber. 1,701,845; Feb. 12.
- Stock-watering tank. D. Gerhardt. 1,725,628; Aug. 20.
- Stocking. S. Alpern. Des. 78,914-5; July 2.
- Stocking. S. Alpern. Des. 79,002-3; July 23.
- Stocking. R. A. Day. Des. 79,186; Aug. 13.
- Stocking. K. Ginnane. 1,729,653; Oct. 1.
- Stocking. F. W. Gorse. 1,724,018; Aug. 13.
- Stocking. O. C. Hamel. Des. 79,025; July 23.
- Stocking. O. C. Hamel. Des. 79,076-80; July 30.
- Stocking. O. C. Hamel. Des. 79,232; Aug. 20.
- Stocking. A. E. Ischinger. Des. 78,815-21; June 25.
- Stocking. A. E. Ischinger. Des. 79,401-9; Sept. 10.
- Stocking. A. E. Ischinger. Des. 80,232-4; Dec. 31.
- Stocking. F. E. Janschke. Des. 77,962; Mar. 12.
- Stocking. F. E. Janschke. Des. 78,102; Mar. 26.
- Stocking. F. E. Janschke. Des. 78,354; Apr. 23.
- Stocking. P. P. La Montagne. Des. 78,636; May 28.
- Stocking. W. Lauber. Des. 79,560; Oct. 8.
- Stocking. R. Lefi. Des. 78,524; May 14.
- Stocking. R. Lefi. Des. 78,639; May 28.
- Stocking. R. Lefi. Des. 79,876; Nov. 5.
- Stocking. L. H. Mendelsohn. Des. 79,297; Aug. 27.
- Stocking. L. H. Mendelsohn. Des. 79,892; Nov. 12.
- Stocking. L. H. Mendelsohn. Des. 79,470; Sept. 24.
- Stocking. E. B. Mosser. Des. 77,703; Feb. 12.
- Stocking. E. B. Mosser. Des. 78,168; Apr. 2.
- Stocking. E. B. Mosser. Des. 79,379; Sept. 10.
- Stocking. E. O. Nebel. Des. 77,975; Mar. 12.
- Stocking. E. O. Nebel. Des. 78,118; Mar. 26.



- Stocking. C. B. Smith. Des. 77,715; Feb. 12.  
 Stocking. J. A. Struthers. Des. 78,367; Apr. 23.  
 Stocking. L. Thucka. Des. 79,682; Oct. 22.  
 Stocking. L. Thucka. Des. 77,658; Feb. 5.  
 Stocking. E. Widman. Des. 78,954; July 9.  
 Stocking. A. H. Wittenberg. Des. 77,661-2; Feb. 5.  
 Stocking. H. S. Wolff. 1,697,255; Jan. 1.  
 Stocking. E. M. Zinky. 1,731,696; Oct. 15.  
 Stocking and making the same. R. H. Holden and J. F. Roberts. 1,715,657; June 4.  
 Stocking and shoe protector. E. R. Wharton. 1,730,400; Oct. 8.  
 Stocking board. J. L. Fagan. 1,714,356; May 21.  
 Stocking clock-lace-forming machine. A. Thierfelder. 1,708,160; Apr. 9.  
 Stocking frame. F. C. Scholler. 1,712,094; May 7.  
 Stocking frame. G. G. Beckhardt. 1,697,968; Jan. 8.  
 Stocking, Lady's. H. Hemmerich. 1,728,546; Sept. 17.  
 Stocking protector. M. M. Basar, jr. 1,736,245; Nov. 19.  
 Stocking protector. F. H. Martin. 1,708,144; Apr. 9.  
 Stocking protector for shoes. W. M. Scholl. 1,710,077; Apr. 23.  
 Stocking stretcher. E. W. Richards. 1,723,489; Aug. 6.  
 Stockings, Attachment for. F. Rosenthal. 1,716,007; June 4.  
 Stockings, Making. J. H. Vogt. 1,708,342; Apr. 9.  
 Stockings, Manufacture of. R. Graeber. 1,712,544; May 7.  
 Stockings, Method of and device for finishing the foot portion of. E. Klemm. 1,716,066; June 4.  
 Stocks and cutters, Portable power drive for die. E. H. Super. 1,727,084; Sept. 3.  
 Stoker. R. A. Foresman. 1,731,771; Oct. 15.  
 Stoker. F. J. Widman. 1,735,913; Nov. 19.  
 Stoker. W. J. Woodcock. 1,736,564; Nov. 19.  
 Stoker, Automatic. R. D. Crawford. 1,709,464; Apr. 16.  
 Stoker, Automatic. C. Martincich. 1,733,746; Oct. 29.  
 Stoker, Automatic. W. J. Woodcock. 1,736,565; Nov. 19.  
 Stoker, Chain grate. J. W. Peck. 1,700,707; Jan. 29.  
 Stoker construction. O. Aaram. Rel. 7,416; Aug. 27.  
 Stoker-driving mechanism. F. W. Hollick. 1,724,711; Aug. 13.  
 Stoker-driving mechanism. R. S. Riley. 1,712,401; May 7.  
 Stoker, Furnace. H. Sydow. 1,705,548; Mar. 19.  
 Stoker, Industrial. C. F. Miller. 1,708,393; Apr. 9.  
 Stoker, Locomotive. N. M. Lower. 1,717,989; June 18.  
 Stoker, Locomotive. N. M. Lower. 1,718,054; June 18.  
 Stoker, Locomotive. N. M. Lower. 1,738,379; Dec. 3.  
 Stoker, Locomotive. E. A. Turner. 1,711,466; Apr. 30.  
 Stoker, Mechanical. J. S. S. Fulton. 1,706,287; Mar. 19.  
 Stoker, Mechanical. M. J. Wightman. 1,703,130; Feb. 26.  
 Stoker mechanism. N. M. Lower and P. A. Ketchpel. 1,730,616; Oct. 8.  
 Stoker-operating mechanism. G. H. Thacher, jr. 1,733,142; Oct. 29.  
 Stoker, Traveling grate. R. Zinkernagel. 1,738,749; Dec. 10.  
 Stoker, Underfeed. L. D. Burwell. 1,702,891; Feb. 19.  
 Stoker, Underfeed. R. A. Foresman. 1,714,977; May 23.  
 Stokers, Distributor for automatic. A. MacArthur. 1,716,071; June 4.  
 Stoking device, Automatic. I. T. Woodruff. 1,710,134; Apr. 23.  
 Stoking mechanism, Locomotive. D. T. Williams. 1,714,116; May 21.  
 Stomach tube. J. A. Wilkins. 1,736,182; Nov. 19.  
 Stone, Abrasive. G. E. Dresser. 1,707,472; Apr. 2.  
 Stone, Artificial. F. P. Mars. 1,718,827; June 25.  
 Stone, Building. E. F. de las Heras. 1,719,261; July 2.  
 Stone drill. A. B. Feldmar. 1,737,495; Nov. 26.  
 Stone gatherer. C. J. Darr. 1,713,952; May 21.  
 Stone, Hardening alderene. P. Mahler. 1,738,956; Dec. 10.  
 Stone, Manufacturing artificial. G. E. Kendall. 1,739,677; Dec. 17.  
 Stone picker. L. P. Dott and V. H. Ferries. 1,723,608; Aug. 6.  
 Stone, Waterproofing. S. S. Sadler. 1,730,245; Oct. 1.  
 Stone-working machine. P. S. Legge. 1,741,322; Dec. 31.  
 Stoning trays and the like. P. G. Poole. 1,705,204; Mar. 12.  
 Stooling machine. N. H. Caufield. 1,697,000; Jan. 1.  
 Stool. E. E. Ekvall. Des. 79,648-9; Oct. 22.  
 Stool. L. W. Harter. 1,716,694; June 11.  
 Stool, Adjustable. A. Schmid. 1,704,447; Mar. 5.  
 Stool and pail holder, Combination milking. C. W. Bond. 1,711,305; Apr. 30.  
 Stool and pail holder, Milk. L. W. Schmidt. 1,703,547; Feb. 26.  
 Stool, Folding. M. Antonuk. 1,717,908; June 18.  
 Stool, Folding. C. Geertsens. 1,714,420; May 21.  
 Stool, Folding. W. H. Romig. 1,700,271; Jan. 29.  
 Stool, Folding. R. B. Long. 1,715,559; June 4.  
 Stool, foot measure, register, and mirror, Combination shoe. R. E. Beard. 1,697,900; Jan. 8.  
 Stool for lunch counters. E. A. Erickson. 1,698,784; Jan. 15.  
 Stool, Metallic. H. T. Hallowell. 1,742,033; Dec. 31.  
 Stool or similar article. W. F. Costello. Des. 78,562; May 21.  
 Stool or the like. P. C. Goble. Des. 78,016; Mar. 19.  
 Stool, Portable. M. W. McArdle. 1,723,363; Aug. 6.  
 Stool, Window. I. A. Baum. 1,712,807; May 14.  
 Stools for ingot molds, Method and apparatus for making. J. E. Perry. 1,730,162; Oct. 1.  
 Stop and tail light. S. W. Hyatt. 1,700,369; Jan. 29.  
 Stop, Automatic. W. L. Clouse. 1,730,806; Oct. 8.  
 Stopcock, Automatic. A. J. McEwan. 1,734,687; Nov. 5.  
 Stop device, Automatic. G. W. Haman. 1,738,103; Dec. 3.  
 Stop for graphophones, Automatic. T. Krist. 1,707,527; Apr. 2.  
 Stop for locating work in machine tools. E. Blau. 1,736,694; Nov. 19.  
 Stop for reciprocating devices, Automatic. C. Norton and J. G. Gustafson. 1,731,022; Oct. 8.  
 Stop indicator, Visual. C. H. Draper. 1,729,598; Sept. 24.  
 Stop mechanism, Automatic. E. Laxo. 1,698,888; Jan. 15.  
 Stop mechanism, Automatic positive. L. R. Tufts. 1,714,477; May 21.  
 Stop mechanism for organs and the like, Combination. F. J. Flaherty. 1,725,706-7; Aug. 20.  
 Stop-motion actuating mechanism. W. M. Kidder. 1,734,492; Nov. 5.  
 Stop motion for drawing frames. W. J. Scott. 1,701,123; Feb. 5.  
 Stop signal. M. J. La Riviere. 1,701,378; Feb. 5.  
 Stop signal. C. L. Post. 1,703,691; Feb. 26.  
 Stop signal. C. L. Stokes. 1,727,947; Sept. 10.  
 Stoppers, Oil check for. G. A. Shaw and J. L. Barra. 1,715,174; May 28.  
 Stopper. See—  
     Bottle stopper. Ladle stopper.  
     Container stopper. Safety stopper.  
     Door stopper. Unitary double stopper.  
     Gas-line stopper.  
 Stopper. J. Fraser. 1,707,352; Apr. 2.  
 Stopper. H. L. Gentry. 1,705,666; Mar. 19.  
 Stopper. D. W. Rom. 1,720,149; July 9.  
 Stopper. J. E. Sheaffer. 1,736,725; Nov. 19.  
 Stopper and applicator, Bottle. H. D. Naum. 1,706,249; Mar. 19.  
 Stopper for perfume bottles and other containers. E. Guérin. 1,697,725; Jan. 1.  
 Stopper for receptacles, Self-closing. A. Hammerstein. 1,707,660; Apr. 2.  
 Stopper for spring-operated rollers. O. Lalonde. 1,725,285; Aug. 20.  
 Stopper remover, Bottle. C. Horix. 1,716,058; June 4.  
 Stopper with drip pipette secured thereto and extending into the bottle, and air admission, Bottle. P. Weickel. 1,700,781; Feb. 5.  
 Stopping automobiles, Device for. A. R. Sherwood. 1,721,978; July 23.  
 Stopping device for electric lifts. J. Mair. 1,703,743; Feb. 26.  
 Stopping-mechanism control. A. E. Beachen. 1,721,291; July 16.  
 Storage and carrier device, Pastry. F. B. Eakle. 1,738,424; Dec. 3.  
 Storage and reclaiming apparatus. H. Von Thaden and G. F. Dodge. 1,705,274; Mar. 12.  
 Storage and reclaiming system. R. H. Beaumont. 1,740,722; Dec. 24.  
 Storage apparatus for fruit, Motion. E. A. White. 1,716,404; June 11.  
 Storage battery. C. J. Dunzweiler. 1,725,260; Aug. 20.  
 Storage battery. J. C. Holden and C. Colliflower. 1,720,957; July 16.  
 Storage battery. R. A. Klock. 1,727,887; Sept. 10.  
 Storage battery. J. M. Lea. 1,705,021; Mar. 12.  
 Storage battery. E. A. Lundgren. 1,715,935; June 4.  
 Storage battery. W. Morrison. 1,712,897; May 14.  
 Storage battery. F. L. Sears. 1,699,633; Jan. 22.  
 Storage battery. T. A. Willard. 1,717,863; June 18.  
 Storage battery. H. D. Wilson and A. L. Hopkins. 1,716,610; June 11.  
 Storage battery, Alkaline. E. B. Miller. 1,740,518; Dec. 24.  
 Storage battery and making same. H. B. Tefft. 1,719,204; July 2.  
 Storage-battery plate. R. T. Murray and F. M. Kelly. 1,697,078; Jan. 1.  
 Storage-battery plate and making same. L. J. Pearson. 1,716,320; June 4.  
 Storage battery, Portable. C. D. Galloway. 1,725,905; Aug. 27.  
 Storage batteries, Charging of. A. W. Hull. 1,717,563; June 18.  
 Storage bin. R. E. Baker. 1,706,514; Mar. 26.  
 Storage bin. W. J. Gourie. 1,711,053; Apr. 30.  
 Storage compartment. A. H. Bernstein. 1,719,256; July 2.  
 Storage compartment. C. J. Maier. 1,716,703; June 11.  
 Storage heater. G. T. Jacobs. 1,704,083; Mar. 5.  
 Storage heater. C. B. Klingemann. 1,705,574; Mar. 19.  
 Storage rack. L. L. McGooagan. 1,705,129; Mar. 12.  
 Storage structure. M. P. Du Plessis. 1,734,161; Nov. 5.  
 Storage tank, Oil. I. R. Afonin. 1,712,321; May 7.  
 Storage tank. H. H. Fleming. 1,709,257; Apr. 16.  
 Storage tank. B. S. Snow. 1,738,213; Dec. 3.  
 Storage tank. R. R. Waddington. 1,722,988; July 30.  
 Storage tank, Liquid. I. R. Afonin. 1,742,120; Dec. 31.  
 Store appliance, Grocery. E. Arnold. 1,708,407; Apr. 9.  
 Store arrangement and fixture. A. C. Woerfel. 1,714,745; May 28.  
 Store front. J. F. Brown. Des. 77,526; Jan. 22.  
 Store front. L. Brown. Des. 77,589; Jan. 29.  
 Store front. S. B. Cassidy. Des. 80,107; Dec. 17.  
 Store front. C. C. Flatt. Des. 78,279; Apr. 16.



- Store front. W. Melville and J. C. Mackenzie, jr. Des. 78,982; July 16.
- Store front. I. P. Pearlman. Des. 80,042; Dec. 3.
- Store front. J. W. Schieffer. 1,728,881; Sept. 17.
- Store-front construction. C. F. Cameron. 1,740,224; Dec. 17.
- Store-front construction. F. and I. Himmel. 1,721,596; July 23.
- Store-front construction. F. and I. Himmel. 1,732,046; Oct. 15.
- Store-front construction. H. C. Reuter. 1,699,021; Jan. 15.
- Store-front construction. H. C. Reuter. 1,713,555; May 21.
- Store-front-construction strip. F. and I. Himmel. Des. 78,755; June 18.
- Store front or the like. C. Brandman. Des. 80,105; Dec. 17.
- Store, Mechanical. W. C. Thornton and J. M. Cameron. 1,724,235; Aug. 13.
- Store, Self-serving. C. Saunders. 1,704,061; Mar. 5.
- Store, Self-serving. N. T. Sharp. 1,717,123; June 11.
- Store, Self-serving. R. Wright and E. B. Kellogg. 1,718,512; June 25.
- Store service. T. L. Conder. 1,703,477; Feb. 26.
- Store system. M. M. Moore. 1,720,917; July 16.
- Storing material. C. O. Brown. 1,728,197; Sept. 17.
- Storing and delivering oil, Hydraulic system for. W. J. Peter. 1,710,006; Apr. 23.
- Storing motor road vehicles, System of. W. I. Bell. 1,717,545; June 18.
- Storm excluder for doors and windows. J. L. Thompson. 1,697,408; Jan. 1.
- Storm-simulating device. F. Schalkenbach. 1,734,446; Nov. 5.
- Storm-water inlet. L. G. Zimmermann. 1,715,487; June 4.
- Stove. D. W. Binns. 1,719,357; July 2.
- Stove. P. A. Celander. Des. 78,088; Mar. 26.
- Stove. S. Coleman. 1,716,210; June 4.
- Stove. C. E. Davidson. 1,711,226; Apr. 30.
- Stove. L. De Wit. Des. 79,349; Sept. 3.
- Stove. J. T. Fitz Gerald. 1,713,428; May 14.
- Stove. A. A. and A. L. Gravelle. 1,726,293; Aug. 27.
- Stove. H. Heller. Des. 79,810; Nov. 5.
- Stove. H. Herrenbruck. Des. 79,715; Oct. 29.
- Stove. H. Herrenbruck. 1,734,578; Nov. 5.
- Stove. W. C. Homan. 1,700,764; Feb. 5.
- Stove. C. W. Hugy. 1,729,218; Sept. 24.
- Stove. B. B. Kahn. 1,717,221; June 11.
- Stove. A. Marichal. 1,731,311; Oct. 15.
- Stove. P. De Nardo. 1,699,054; Jan. 15.
- Stove. T. S. Rath. 1,704,211; Mar. 5.
- Stove. A. A. Roesch. 1,699,632; Jan. 22.
- Stove. L. Scruggs. 1,707,818; Apr. 2.
- Stove. A. E. Simons. 1,713,782; May 21.
- Stove. D. Thorsteinson. Des. 79,051; July 23.
- Stove. L. T. Wilcox. 1,700,755; Feb. 5.
- Stove. L. T. Wilcox. 1,718,186; June 18.
- Stove. L. T. Wilcox. 1,726,687; Sept. 3.
- Stove. R. T. Williams. 1,734,843; Nov. 5.
- Stove and hover, Brooder. R. O. Pence. 1,732,167; Oct. 15.
- Stove and the like. S. S. Thomas. 1,706,264; Mar. 19.
- Stove and ventilating hover, Brooder. R. O. Pence. 1,717,851; June 18.
- Stove, Brooder. J. B. Smith. 1,700,183; Jan. 29.
- Stove, Cabinet. E. C. Hoffmann. Des. 78,624; May 28.
- Stove, Camp. J. M. Goldberg. 1,701,879; Feb. 12.
- Stove, Camp. L. B., N., W., and J. M. Goldberg. 1,714,264; May 21.
- Stove, Camp. W. Goldberg. 1,701,881; Feb. 12.
- Stove, Camp. B. F. Kiler. 1,706,886; Mar. 26.
- Stove, Camper's charcoal. B. F. Elbert. 1,701,033; Feb. 5.
- Stove casing. M. R. Lehman. Des. 79,285; Aug. 20.
- Stove casing. M. R. Lehman. Des. 80,238; Dec. 31.
- Stove, Circulating heating. G. E. Pickup. Des. 80,047; Dec. 3.
- Stove, Circulating heating. G. E. Pickup. 1,720,689; July 16.
- Stove, Clinical. F. L. Whiting. 1,718,018; June 18.
- Stove, Coal-burning brooder. R. D. Sarver. 1,699,512; Jan. 15.
- Stove, Combination. G. T. Hall. 1,721,445; July 16.
- Stove, Combination electric and gas. W. Simpson. 1,716,329; June 4.
- Stove, Combination heating and cooking. J. T. Fuller. 1,720,725; July 16.
- Stove, Combined gas heating and cooking. W. E. Trent. 1,706,422; Mar. 26.
- Stove construction. W. F. Rogers. 1,713,092; May 14.
- Stove construction. A. H. Timmerman. 1,713,308; May 14.
- Stove construction. C. W. Weisenfels. 1,716,473; June 11.
- Stove, Cook. C. M. Fitch. 1,729,100; Sept. 24.
- Stove, Cook. C. Tuason. 1,706,943; Mar. 26.
- Stove, Cooking. I. D. Groak. 1,740,505; Dec. 24.
- Stove, Cooking. H. Herrenbruck. Des. 78,026; Mar. 19.
- Stove, Cooking. H. R. Humphrey. 1,718,951; July 2.
- Stove, Cooking. R. L. Montgomery. 1,719,717; July 2.
- Stove, Cooking. M. C. Reck. 1,741,791; Dec. 31.
- Stove-door spring. H. Lange. 1,718,157; June 18.
- Stove, Electric. C. C. Armstrong. 1,724,164; Aug. 13.
- Stove, Electric. L. H. Cheadle. 1,697,755; Jan. 1.
- Stove, Electric. S. H. Hobson. 1,726,830; Sept. 3.
- Stove, Electric. C. A. Pierson. 1,700,543; Jan. 29.
- Stove, Electric. E. F. Westman. 1,706,908; Mar. 26.
- Stove, Electric cooking. C. J. Grayson. Des. 78,689; June 4.
- Stove, Electric cooking. G. Klumpp. 1,708,422; Apr. 9.
- Stove flue attachment, Gas-. P. J. Hentschel. 1,739,968; Dec. 17.
- Stove-frame base and leg-fastening construction. T. E. Taylor. 1,699,820; Jan. 22.
- Stove, Gas. J. Dilworth. 1,722,411; July 30.
- Stove, Gas. H. R. Humphrey. 1,702,900; Feb. 19.
- Stove, Gas. H. R. Humphrey. 1,707,983; Apr. 9.
- Stove, Gas. G. A. Humphrey. 1,718,960; July 2.
- Stove, Gas. A. Kosmopoulos and C. Evensen. 1,700,938; Feb. 5.
- Stove, Gas. A. Traut. 1,698,775; Jan. 15.
- Stove, Gas cooking. B. S. Beach. 1,712,544; May 14.
- Stove, Gas heating. E. M. Brandt. 1,712,687; May 14.
- Stove, Gas heating. J. M. Olinger. 1,719,994; July 9.
- Stove, Gasoline camp. L. B., N., W., and J. M. Goldberg. 1,701,880; Feb. 12.
- Stove, Hamburger-cooking. R. W. Riley. 1,706,365; Mar. 19.
- Stove, Heating. C. W. Brabbée. 1,710,674; Apr. 23.
- Stove, Heating. C. E. Davidson. 1,716,213; June 4.
- Stove, Heating. A. Glenn. 1,706,572; Mar. 26.
- Stove, Heating. J. L. Grether. 1,698,090; Jan. 8.
- Stove, Heating. M. G. Klemme. 1,728,241; Sept. 17.
- Stove, Heating. G. E. Pickup. 1,723,629; Aug. 6.
- Stove, Heating. G. F. Reznor. 1,709,231; Apr. 16.
- Stove, Heating. G. G. Scarborough. 1,724,683; Aug. 13.
- Stove, Heating. C. G. Schott. Des. 80,190; Dec. 24.
- Stove hood. L. W. Ray. 1,732,315; Oct. 22.
- Stove, Hooded brooder. J. T. Landgraf. 1,705,773; Mar. 19.
- Stove, Hot-blast. F. R. McGee. 1,724,848; Aug. 13.
- Stove inclosure. A. Schierer. 1,740,668; Dec. 24.
- Stove-inclosure unit, Ventilated fireproof. H. W. Soper. 1,714,823; May 28.
- Stove leg. L. Dana. 1,731,126; Oct. 8.
- Stove-leg construction. S. Ross. 1,732,913; Oct. 22.
- Stove leg, Sheet-metal. M. A. Possons. 1,714,435; May 21.
- Stove, Liquid-fuel. L. S. Chadwick and M. Resek. 1,701,460; Feb. 5.
- Stove, Liquid-fuel cook-. G. E. Pickup. 1,740,745-6; Dec. 24.
- Stove, Oil. A. W. Lyons. 1,730,224; Oct. 1.
- Stove, Oil. C. M. Thomsen. 1,699,411; Jan. 15.
- Stove or furnace, Hot-air. A. M. Martzanoff. 1,725,468; Aug. 20.
- Stove or oven, Gas. J. P. Wiatt. 1,720,387; July 9.
- Stove or range. S. Morgan. 1,723,704; Aug. 6.
- Stove or range, Gas. H. W. O'Dowd. 1,735,654; Nov. 12.
- Stove or similar article, Fireplace. H. H. Heibredner. Des. 73,289; Apr. 16.
- Stove, Petroleum-vaporizer cooking. J. V. Svenson. 1,724,534; Aug. 13.
- Stove pipe. H. Embree. 1,736,492; Nov. 19.
- Stovepipe. S. F. Jackes. 1,741,304; Dec. 31.
- Stovepipe or the like. W. E. Huenefeld. 1,739,233; Dec. 10.
- Stovepipe structure. H. Kielberg. 1,705,620; Mar. 19.
- Stove, Portable. E. N. Turner. 1,701,989; Feb. 12.
- Stove, Slow-combustion heating. G. W. Hazlewood. 1,705,403; Mar. 12.
- Stove structure. W. Blaskewitz, C. B. Overly, C. F. Lambert, and J. Ironside. 1,735,151; Nov. 12.
- Stove structure. J. F. Firestone. 1,721,619; July 23.
- Stove structure. J. Ironside. 1,730,008; Oct. 1.
- Stove structure, Collapsible. J. Ironside. 1,740,943; Dec. 24.
- Stove top. R. Hoffman. 1,710,023; Apr. 23.
- Stove top. M. R. Lehman. 1,705,577; Mar. 19.
- Stove, Water-heating oil. G. Furumizo. 1,712,429; May 7.
- Stove with torchless starting, Gasoline cooking. H. C. Hanson. 1,730,652; Oct. 1.
- Stoves, Air feed and vent for closed-top gas. J. B. Gardner. 1,702,297; Feb. 19.
- Stoves and other articles of furniture, Rest for legs of. C. B. Wagner, Jr. 1,730,698; Oct. 8.
- Stoves and the like, Fuel-burner attachment for. H. J. Holder. 1,738,184; Dec. 3.
- Stoves, Attachment for. A. H. McLeskey. 1,708,424; Apr. 9.
- Stoves, Radiant for gas. J. H. Gill. Des. 79,327; Sept. 3.
- Stoves, Towel-drying attachment for. M. A. Greenwald. 1,717,772; June 18.
- Stowing cargoes, Method of and apparatus for. L. F. Hintz. 1,705,060; Mar. 12.
- Stowing mechanism. A. W. Platt. 1,731,319; Oct. 15.
- Stowing mechanism, Rearwardly-acting. A. W. Platt. 1,731,318; Oct. 15.
- Straightener, Casement-window and door. U. E. Tuomi. 1,701,766; Feb. 12.
- Straightening device. A. Rausch. 1,729,012; Sept. 24.
- Straightening device, Automobile axle-. R. A. Schaaaf. 1,700,748; Feb. 5.
- Straightening bar, Permanently. J. Muskett. 1,697,132; Jan. 1.
- Straightening machine. L. E. Deloghia. 1,731,650; Oct. 15.
- Straightening machine provided with rolls. P. Billigmann. 1,716,362; June 11.



- Straightening plates, Method and apparatus for. F. Ungerer. 1,723,098; Aug. 6.
- Straightening press. C. E. Lehr. 1,720,083; July 9.
- Strain gauge. E. B. Smith. 1,708,333; Apr. 9.
- Strainer. F. L. Hammer. 1,709,472; Apr. 16.
- Strainer. G. L. Hinman. 1,706,160; Mar. 19.
- Strainer. C. H. Snider. 1,704,634; Mar. 5.
- Strainer, Air. A. W. Kogstrom. 1,701,782; Feb. 12.
- Strainer and dirt collector. M. Denney. 1,714,300; May 21.
- Strainer and making the same. J. F. Windsor. 1,731,366; Oct. 15.
- Strainer and valve for water mains and the like, Twin. A. G. Royle. 1,721,233; July 16.
- Strainer buttons, Making. J. H., and J. H. McEvoy, jr. 1,699,798; Jan. 22.
- Strainer, Coffeepot. J. S. Anderson. 1,731,698; Oct. 15.
- Strainer for cloth washers, Manifold. A. B. Benoit. 1,710,010; Apr. 23.
- Strainer for engine-cooling systems, Water. J. A. Slider and B. S. Goodwin. 1,741,444; Dec. 31.
- Strainer for water-circulating systems and the like, Baffle. H. A. Wiend. 1,726,328; Aug. 27.
- Strainer, Gasoline. F. Helman. 1,711,093; Apr. 30.
- Strainer, Liquid. L. F. Stiehm. 1,698,204; Jan. 8.
- Strainer, Liquid-fuel. C. W. Fisher. 1,730,360; Oct. 8.
- Strainer, Milk. M. J. Dowling. 1,703,266; Feb. 26.
- Strainer, Milk. H. E. Duke. 1,703,440; Feb. 26.
- Strainer, Milk. J. F. Horne. 1,715,601; June 4.
- Strainer, Self-clearing roof-drain. W. R. Rose. 1,721,472; July 16.
- Strainer, Sink. G. J. Lemm. 1,741,242; Dec. 31.
- Strainer, Sink. J. Melfi. 1,730,083; Oct. 1.
- Strainer, Sink. S. G. Settles. 1,706,000; Mar. 19.
- Strainer, Sink. F. Wesche. 1,709,383; Apr. 16.
- Strainer, Snare. C. H. Strupe. 1,724,888; Aug. 13.
- Strainer stand for liquid-measuring devices. A. Nagy. 1,710,588; Apr. 23.
- Strainer, Well. H. F. Patton. 1,722,965; July 30.
- Straining device. A. H. Bickford, L. B. Melvin, and F. G. Thomas. 1,698,906; Jan. 15.
- Straining pulp, Apparatus for. L. B. Decker. 1,731,193; Oct. 8.
- Straining skeins of artificial silk, Device for. O. Sindl. 1,711,465; Apr. 30.
- Strand and brake lining and making the same. E. Slade. 1,741,443; Dec. 31.
- Strand-assembling apparatus. G. A. Bouvier and J. W. Richter. 1,706,727; Mar. 26.
- Strand cutter. E. F. Baldwin. 1,721,848; July 23.
- Strand-treating machine. A. Marchev. 1,731,055; Oct. 8.
- Strand-working mechanism. W. F. Hosford and D. Levinger. 1,720,676; July 16.
- Strand-working mechanism. S. McMullan. 1,706,702; Mar. 26.
- Strands, ropes, or cables, Attachment for. E. A. Conner. 1,717,665; June 18.
- Strap: See—
- Article strap. Lens strap.
- Bundle strap. Wrist-watch strap.
- Head-block strap.
- Strap and making same, Elastic. M. N. Aaron. 1,713,637; May 21.
- Strap and martingale connection, Combined breast. F. E. Schartow. 1,721,167; July 16.
- Strap-attaching and end-finishing device. D. Marinsky. 1,734,039; Nov. 5.
- Strap bracket, Hand. L. M. Clark. 1,729,988; Oct. 1.
- Strap-end attachment. G. W. Elsey. 1,729,739; Oct. 1.
- Strap-end connection. C. A. Rastall. 1,708,326; Apr. 9.
- Strap-end hook. W. Wallenthin. 1,715,153; May 28.
- Strap-extension device. J. Daló. 1,700,489; Jan. 29.
- Strap fastening, Adjustable. F. Hirsh. 1,719,470; July 2.
- Strap for cleated cases, Reinforcing metal. T. R. Winchell. 1,698,574; Jan. 8.
- Strap for electric-lighting fixtures, Adjustable. M. Weinstein. 1,703,649; Feb. 26.
- Strap for hand bags, Finger and back. S. Pitkin. 1,735,655; Nov. 12.
- Strap for lingerie, Shoulder. J. M. Heake. 1,741,628; Dec. 31.
- Strap slide. L. W. Shields. Des. 78,658-9; May 28.
- Strap structure, Wrist. E. F. Herschede. 1,718,821; June 25.
- Strap supporter, Shoulder. K. Tuthill. 1,730,696; Oct. 8.
- Strap-tightening device. W. W. Robinson. 1,712,584; May 14.
- Strap wrench. G. Schustarich. 1,726,862; Sept. 3.
- Straw fiber for the manufacture of relatively thick fibrous sheets therefrom, Preparing cereal. E. S. Shepherd. 1,728,258; Sept. 17.
- Straw spreader. E. W. Baldwin. 1,711,554; May 7.
- Stream motor. H. I. Hohl. 1,740,595-6; Dec. 24.
- Stream-unifying apparatus. J. W. Smith. 1,720,244; July 9.
- Street-indicating and advertising device. T. Theoharis and J. Fotakis. 1,737,900; Dec. 3.
- Street or station indicator. A. Massé. 1,713,075; Oct. 8.
- Street-repair machine. W. G. Chausse. 1,714,659; May 28.
- Stress-head construction. A. E. L. Chorlton. 1,725,955; Aug. 27.
- Stretcher. M. V. Bauer. 1,723,673; Aug. 6.
- Stretcher. A. Hopkins. 1,722,217; July 23.
- Stretcher and shrinker, Steam hat and cap. M. Liverant. 1,720,602; July 9.
- Stretcher and tree, Combination shoe. F. J. Lau, sr. 1,700,724; Jan. 29.
- Stretcher, Body. G. Dobbins. 1,701,747; Feb. 12.
- Stretcher, Boot. J. A. Albus. 1,723,395; Aug. 6.
- Stretcher, Collapsible. K. Butcher. 1,741,449; Dec. 31.
- Stretcher, Curtain. H. D. Amos. 1,707,703; Apr. 2.
- Stretcher, Curtain. C. M. Flink. 1,706,283; Mar. 19.
- Stretcher, Curtain. S. Lemay. 1,717,985; June 18.
- Stretcher for uniform-cap covers. R. H. Lake. 1,703,398; Feb. 26.
- Stretcher, Hide. J. Lord. 1,731,144; Oct. 8.
- Stretcher roll. W. B. Wood. 1,718,620; June 25.
- Stretcher, Shoe. J. Dudenhofen. 1,726,733; Sept. 3.
- Stretcher, Trousers. C. M. del Valle. 1,706,916; Mar. 26.
- Stretcher, Wire. G. Angel. 1,702,331; Feb. 19.
- Stretchers and the like, Manufacturing. S. S. Jenkins. 1,715,707; June 4.
- Stretching and coiling strip material, Apparatus for. F. C. Biggert, jr. 1,715,219; May 28.
- Stretching and drying frame. A. O. Schramm. 1,741,541; Dec. 31.
- Stretching and drying frame, Pelt. M. L. Bloom. 1,710,339; Apr. 23.
- Stretching and forming device. V. Pace. 1,718,066; June 18.
- Stretching apparatus. R. Vickrey. 1,722,647; July 30.
- Stretching clamp. J. Zagorski. 1,706,972; Mar. 26.
- Stretching frame. H. N. Allen and S. C. Pitman. 1,726,254; Aug. 27.
- Stretching machine. C. Hunt and F. E. Betrand. 1,722,294; July 30.
- Stretching machine, Insertion. S. Hoggard. 1,723,781; Aug. 6.
- Stretching machines with preliminary stretching, Fabric feeder for. S. Dorfman. 1,734,160; Nov. 5.
- Stretching, tentering, and drying machine, Multitier. A. Schnitzler. 1,710,343; Apr. 30.
- Stretching textile or other fabrics or materials, Apparatus for. A. Livezey. 1,728,067; Sept. 10.
- Striker plate, Adjustable. W. E. Karns. 1,733,412; Oct. 29.
- Striker plate for door latches. A. A. Utley. 1,741,258; Dec. 31.
- Striking casting and carry iron, Combined. H. K. Smith. 1,719,088; July 2.
- String for string instruments. A. Gläsel. 1,717,677; June 18.
- String peg. R. R. Page. 1,710,602; Apr. 30.
- Stringed instrument, Collapsible. L. Welch. 1,699,384; Jan. 15.
- Stringed instruments, String-tensioning device for self-playing. C. P. Corwin. 1,736,580; Nov. 19.
- Stringing seed corn, Apparatus for. G. P. Heikes. 1,700,163; Jan. 29.
- Strip and support, Road. W. E. White. 1,733,764; Oct. 29.
- Strip assembly, Finish. H. G. Kellogg. 1,703,939; Mar. 5.
- Strip, Cant. L. E. Witter. 1,731,328; Oct. 15.
- Strip, Expansion. D. A. Trevisan. 1,704,812; Mar. 12.
- Strip-feeding machine. E. E. Leonard. 1,735,288; Nov. 12.
- Strip-feeding mechanism. C. J. Fancher and R. A. Johnson. 1,723,690; Aug. 6.
- Strip-feeding mechanism, Adjustable automatically-controlled. B. R. Schneider and A. M. Wickwire, jr. 1,728,908; Sept. 17.
- Strip folder for manifolding machines. L. F. Hagemann. 1,722,290; July 30.
- Strip-forming machine. F. Coates. 1,708,872; Apr. 9.
- Strip-forming machine. H. L. Fingelstein. 1,737,367; Nov. 26.
- Strip of webbing or similar material. A. Shields. Des. 79,993; Nov. 26.
- Strip-serving machine. T. R. Gautier and H. E. Nichols. 1,732,636; Oct. 22.
- Strip-serving mechanism. E. H. Chabot. 1,732,635; Oct. 22.
- Strip-severing machine. C. Schumacher. 1,722,617; July 30.
- Strip-sheet manufacture. H. M. Naugle and A. J. Townsend. 1,736,324; Nov. 19.
- Stripe-painting device. E. P. du Pont. 1,739,296; Dec. 10.
- Stripping device. J. Curran. 1,697,756; Jan. 1.
- Stripping device. P. B. Furnaro. 1,730,271; Oct. 1.
- Stripping device. J. T. Schaaf. 1,713,007; May 14.
- Stripping machine. M. L. Hunker. 1,718,047; June 18.
- Stripper machine, Automatic. J. H. Besser. 1,699,218; Jan. 15.
- Stripping apparatus. D. G. Anderson. 1,706,724; Mar. 26.
- Stripping dyes from fibers. E. L. Helwig. 1,710,310; Apr. 23.
- Stripping machine, Mold. E. E. Hawkinson. 1,709,821; Apr. 16.
- Stripping machines, Tube-cuffing device for. H. D. Stevens. 1,711,474; Apr. 30.
- Strips, Device for applying. F. B. Manker. 1,697,958; Jan. 8.
- Stroboscope. A. V. J. Guillet. 1,705,446; Mar. 12.
- Stroboscope. C. A. Nickle. 1,728,003; Sept. 10.
- Stroke combustion engine, Variable. A. L. Rightenour. 1,728,363; Sept. 17.



- Stroke-indicating attachment for golf clubs. J. Gibson. 1,712,609; May 14.
- Stroppler, Blade. J. D. and A. D. Bruce. 1,705,325; Mar. 12.
- Stroppler, Razor. R. H. Ingersoll. 1,740,349; Dec. 17.
- Stroppler, Razor. A. O. Olafson. 1,704,099; Mar. 5.
- Stroppler, Razor-blade. R. H. Ingersoll. 1,734,487; Nov. 5.
- Stroppler, Razor-blade. R. H. Ingersoll. 1,740,248; Dec. 17.
- Stroppler, Safety-razor-blade. G. W. Hoos and R. B. Stanford. 1,709,172; Apr. 16.
- Stroppler, Safety-razor-blade. J. H. Poole. 1,698,559; Jan. 8.
- Stropping device for safety-razor blades. J. R. Torrey and W. P. Harthan. 1,701,737; Feb. 12.
- Structural element for buildings, Metallic. G. Hughes. 1,704,745; Mar. 12.
- Structural element, Tapered drawn. G. E. Barnhart. 1,711,824; May 7.
- Structural part, Fabricated. U. C. Thies. 1,738,854; Dec. 10.
- Structural plate, Combination. P. Langguth. 1,740,928; Dec. 24.
- Structural unit. D. H. Bitney. 1,706,558; Mar. 26.
- Structural unit. D. H. Bitney. 1,739,573; Dec. 17.
- Structural units, Manufacture of. A. T. Keller. 1,705,618; Mar. 19.
- Structure, Advertising. A. M. Hamilton and W. C. Hamilton. Des. 78,297; Apr. 16.
- Structure and component parts thereof, Transparent. L. Burgess. 1,729,818; Oct. 1.
- Structure comprising glass tiles. P. Liese. 1,725,808; Aug. 27.
- Structure for car doors, Weatherproofing. C. E. Eklind and K. J. Tobin. 1,739,789; Dec. 17.
- Structure, Trussed. H. H. Saker. 1,738,926; Dec. 10.
- Structures of reinforced concrete, Device for working out calculations in connection with. W. Sabatini. 1,739,523; Dec. 17.
- Structures, Producing openwork. R. A. Lewis and D. L. Eynon. 1,736,317; Nov. 19.
- Stucco or brick veneer wall, Steel interlocked, asbestos-sheathed. J. D. Lawrence. 1,740,898; Dec. 24.
- Stud and joist, Metal. W. S. Connell. 1,733,778; Oct. 29.
- Student's chair. W. C. Jackson. 1,706,233; Mar. 19.
- Studio for acoustic purposes. J. P. Maxfield. 1,719,481; July 2.
- Stud-setting machine. E. L. Connell and F. Schneider. 1,732,038; Oct. 15.
- Stuffing box. C. A. Baker. 1,700,731; Feb. 5.
- Stuffing box. A. C. Brammer. 1,736,646; Nov. 19.
- Stuffing box. B. P. Hoffman. 1,716,961; June 11.
- Stuffing box. R. M. Temple. 1,720,456; July 9.
- Stuffing box. E. Wilson. 1,735,193; Nov. 12.
- Stuffing-box gland. B. H. McGuire. 1,740,997; Dec. 24.
- Stuffing for mattresses and preparing the same. M. K. Lambert and C. W. Keiver. 1,730,615; Oct. 8.
- Stuffing machine. G. C. Kidwell. 1,739,034; Dec. 10.
- Stuffing machines, Presshead for. O. C. Schmidt. 1,700,098; Jan. 22.
- Stump extractor. L. Frey. 1,715,229; May 28.
- Stump for a settee frame or the like. J. M. Hansen. Des. 77,692; Feb. 12.
- Stump puller. C. Wester. 1,700,008; Jan. 22.
- Stump puller. J. C. Williamson. 1,730,707; Oct. 8.
- Stylus for sound-reproducing machines. G. F. Taylor. 1,741,256; Dec. 31.
- Styrol and its homologues and products obtained thereby, Obtaining colored polymerized. I. Ostromislensky. 1,705,264; Mar. 12.
- Styrol, Producing purified. I. Ostromislensky. 1,703,950; Mar. 5.
- Subaqueous construction. P. L. Wise. 1,707,106; Mar. 26.
- Subchute for concrete mixers, Pivoted charging. C. F. Ball. 1,708,647; Apr. 9.
- Subgrade machine. E. L. Edwards. 1,708,264; Apr. 9.
- Subgrading machine. H. Everist. 1,708,835; Apr. 9.
- Subharmonic frequency producer. W. A. Marrison. 1,733,614; Oct. 29.
- Submarine. B. H. Plummer. 1,718,704; June 25.
- Submarine diving and exploration apparatus. H. Hartman. 1,715,918; June 4.
- Submarine drill. C. C. Hansen. 1,708,173; Apr. 9.
- Submarine escapement device. R. A. Taylor. 1,733,436; Oct. 29.
- Submarine-escaping apparatus. J. F. Risher. 1,721,039; July 16.
- Submarine rescue apparatus. J. P. Ayer. 1,740,532; Dec. 24.
- Submarine rescue device. Y. Shimizu. 1,728,808; Sept. 17.
- Submarine safety device. W. Krause. 1,734,864; Nov. 5.
- Submarine vessel. J. Peppin. 1,740,263; Dec. 17.
- Submarines, Emergency exterior air-connection unit for. J. P. Ayer. 1,731,559; Oct. 15.
- Submarines, Escape device for. J. W. Cooke. 1,741,827; Dec. 31.
- Submarines, Life-saving attachment for. M. Trepeta. 1,700,187; Jan. 29.
- Submarines, Nonsinkable device for. L. A. Fiore. 1,703,816; Feb. 26.
- Submarines, Rapid-salvage system for. E. Ellsberg. 1,740,231; Dec. 17.
- Subsoiler and aerator. S. M. McEwen. 1,739,765; Dec. 17.
- Subsoiler attachment for plows. C. A. Garvin. 1,717,379; June 18.
- Substance having a nacreous and chatoyant aspect, Process and apparatus for production of. J. Paisseau. 1,700,208; Jan. 29.
- Substances and for obtaining chemical products therefrom, Producing intimate mixtures of. J. W. Spensley. 1,722,687; July 30.
- Substances from metal surfaces, Preparation for removing foreign. C. F. Dinley. 1,729,767; Oct. 1.
- Substances from metal surfaces, Removal of foreign. C. F. Dinley. 1,729,765; Oct. 1.
- Substances having a decorative effect, Manufacture of. J. Paisseau. 1,737,943; Dec. 3.
- Substation equipment. H. F. Oberfeld. 1,719,993; July 9.
- Substation system. J. H. Mason. 1,732,135; Oct. 15.
- Substitute for mothers' milk. T. C. Manchester. 1,723,188; Aug. 6.
- Subsurface contours, Method and apparatus for studying. B. McCollum. 1,724,720; Aug. 13.
- Subterranean strata, Method and apparatus for determining the contour of. B. McCollum. Rel7,242; Mar. 19.
- Sucker-impaling machine. W. H. Sergeant. 1,735,621; Nov. 12.
- Sucker rod. E. J. and D. C. Musgrove. 1,700,070; Jan. 22.
- Sucker rod and box socket, Combination. E. J. Shaffer. 1,729,494; Sept. 24.
- Sucker-rod elevator. O. C. Needham. 1,726,116; Aug. 27.
- Sucker-rod elevator. E. J. Shaffer. 1,737,029; Nov. 26.
- Sucker-rod hanger. O. B. Lyon. 1,732,480; Oct. 22.
- Sucker-rod protector, Pinned. G. E. Fentress. 1,714,594; May 28.
- Sucker-rod rack. A. H. Neilson. 1,729,181; Sept. 24.
- Sucrose and quicklime, Effecting a reaction between. R. W. Shafor. 1,713,925; May 21.
- Sucrose from cane molasses, Recovering. H. De F. Oli. varius. 1,730,473; Oct. 8.
- Suction-actuated devices in connection with the suction passage of an internal-combustion engine, Apparatus for operating. C. S. Bragg and V. W. Kliesrath. 1,735,631-3; Nov. 12.
- Suction-actuated devices in connection with the suction passage of an internal-combustion engine, Apparatus for operating. C. S. Bragg and V. W. Kliesrath. 1,735,635; Nov. 12.
- Suction-actuated devices in connection with the suction passage of an internal-combustion engine, Method of and apparatus for operating. C. S. Bragg and V. W. Kliesrath. 1,735,630; Nov. 12.
- Suction and blast attachment for clippers. W. von Sandt. 1,723,828; Aug. 6.
- Suction apparatus for imbibition printing. L. T. Troland. 1,707,695; Apr. 2.
- Suction apparatus, Pneumatic. A. Eppler. 1,719,174; July 2.
- Suction box. G. J. Manson. 1,703,010; Feb. 19.
- Suction box. H. R. Williams. 1,715,398; June 4.
- Suction cleaner. J. B. Kirby. 1,698,725; Jan. 15.
- Suction cleaner. W. S. Simpson. 1,708,242; Apr. 9.
- Suction cleaner. H. White. 1,718,804; June 25.
- Suction control for cigar-wrapper carriers. J. F. Halstead. 1,721,554; July 23.
- Suction feed roller. A. Broadmeyer. 1,706,952; Mar. 26.
- Suction roll. W. H. Millsbaugh. 1,700,442; Jan. 29.
- Suction-roll shell drilling. H. C. Burden. 1,741,974; Dec. 31.
- Suction street cleaner. T. W. Green. 1,704,043; Mar. 5.
- Suction supporting device. I. E. Hanson. 1,714,422; May 21.
- Sugar-beet lifter and toppler. W. J. Godtel. 1,723,777; Aug. 6.
- Sugar bowl. M. Finkle. Des. 79,132; Aug. 6.
- Sugar-crystallizing apparatus. B. H. Varnau and T. B. Wayne. 1,724,627; Aug. 13.
- Sugar, Manufacture of extra-fine soft granulated. B. H. Varnau and T. B. Wayne. 1,715,049; May 28.
- Sugar, Manufacturing. M. S. Hershey. 1,740,693; Dec. 24.
- Sugar product and making same. V. V. J. Andresen. 1,732,492; Oct. 22.
- Sugar product, Manufacture of a. W. H. Dickerson. 1,739,064; Dec. 10.
- Sugar refining. E. N. Ehrhart. 1,731,237; Oct. 15.
- Suit, Bathing. A. Slotroff. 1,709,285; Apr. 16.
- Suit, Bathing and gymnasium. M. I. Rivkin. 1,701,933; Feb. 12.
- Suit box and protecting suits from moths. A. W. Bang. 1,727,092; Sept. 3.
- Suitcase. P. Eckhardt. 1,712,448; May 7.
- Suitcase frame. B. Zerenga. 1,705,436; Mar. 12.
- Suitcase, Wardrobe. N. Z. Butterick. 1,730,058; Oct. 1.
- Suitcase, Wardrobe. J. M. Galloway. 1,717,841; June 18.
- Suit hanger. A. Freeman. 1,723,980; Aug. 6.
- Sulfate and lead chloride into lead carbonate, Conversion of lead. S. C. Smith. 1,733,081; Dec. 3.
- Sulphate of ammonia, Preparation of. S. Robson. 1,740,837; Dec. 24.
- Sulphates, Producing metallic. F. Johannsen. 1,725,865; Aug. 27.
- Sulphite-cellulose waste liquor, Utilization of. W. Michael and A. Palm. 1,723,800; Aug. 6.
- Sulphite pulp, Cooking. G. H. Tomlinson. 1,697,032; Jan. 1.
- Sulphite pulp, Production of. G. A. Richter. 1,735,014; Nov. 12.



- Sulphonates, Obtaining pure mineral-oil. C. Fischer, jr., and W. T. Reddish. 1,703,838; Feb. 26.
- Sulphonic body. C. Fischer, jr., and W. T. Reddish. 1,734,369; Nov. 5.
- Sulphur and making same, Colloidal. A. Hartzell and F. H. Lathrop. 1,705,862; Mar. 19.
- Sulphur burner, Pressure. H. Howard. 1,708,094; Apr. 9.
- Sulphur-burning apparatus. O. Buse. 1,714,657; May 28.
- Sulphur-burning process. J. C. Boertlein. 1,713,416; May 14.
- Sulphur composition and making same. C. Ellis. 1,699,694; Jan. 22.
- Sulphur compounds from petroleum oils, Removing. W. N. Davis, W. H. Hampton, and E. N. Klemgard. 1,705,809; Mar. 19.
- Sulphur, Concentration of. E. H. Nutter and J. W. Littleford. 1,697,402; Jan. 1.
- Sulphur, Extracting. A. J. Crowley. 1,729,246; Sept. 24.
- Sulphur from carbonyl sulphide, Recovering. R. C. Benner and A. P. Thompson. 1,710,141; Apr. 23.
- Sulphur from iron-pyrites, Recovery of. R. F. Bacon. 1,731,516; Oct. 15.
- Sulphur from roaster gases, Recovery of. R. F. Bacon. 1,734,991; Nov. 12.
- Sulphur, Method and apparatus for atomizing. A. J. Crowley. 1,718,334; June 25.
- Sulphur, Mining of. W. Judson. 1,719,981; July 9.
- Sulphur, Producing elemental. R. C. Benner and A. P. Thompson. 1,741,551; Dec. 31.
- Sulphuring machine. C. T. Spivey. 1,700,726; Jan. 29.
- Sun blind. C. Perks, C. E. Shields, and T. G. Murray. 1,742,094; Dec. 31.
- Sunlight to the plants in greenhouses, presentation of maximum of. A. C. Burrage. 1,703,388; Feb. 26.
- Sun-observing device. C. M. Yuranovich. 1,727,686; Sept. 10.
- Sun protector. A. Niflot. 1,710,877; Apr. 23.
- Sunshade. R. L. Pettit and W. A. Cease. 1,727,670; Sept. 10.
- Sunshade for photographic objectives. E. Wandersleb and H. Kunze. 1,740,529; Dec. 24.
- Sun shield, Automobile. S. Smith. 1,716,330; June 4.
- Supercharger. G. C. Goode. 1,704,082; Mar. 5.
- Supercharger and air cleaner. L. V. Pence. 1,712,091; May 7.
- Superfed engine, Two-stroke multicylinder. G. Fornaca. 1,717,768; June 18.
- Superheat control for water-tube boilers. H. E. Yarrow. 1,728,905; Aug. 6.
- Superheater. T. E. Murray. 1,702,058; Feb. 12.
- Superheater. A. D. Pratt. 1,700,237; Jan. 29.
- Superheater. A. D. Pratt. 1,718,091; May 14.
- Superheater. A. Schneider. 1,707,143; Mar. 26.
- Superheater. E. R. Stein and K. Volland. 1,738,849; Dec. 10.
- Superheater boiler. J. Prentice. 1,727,177; Sept. 3.
- Superheater, Steam. R. B. Armstrong. 1,699,943; Jan. 22.
- Superheater, Steam. L. T. Mart. 1,729,837; Oct. 1.
- Superheater tube and making same. W. H. Winslow. 1,741,217; Dec. 31.
- Superheater unit. F. W. Shupert. 1,725,485; Aug. 20.
- Superheating steam, Apparatus for. W. D. Lamont and A. F. Ernst. 1,725,399; Aug. 20.
- Superhydraulic ram. C. E. Helmick. 1,725,637; Aug. 20.
- Supervising and control system. T. U. White. 1,726,009; Aug. 27.
- Supervisor system. J. C. Field. 1,719,506; July 2.
- Supervisory control system. R. J. Wensley. 1,702,423; Feb. 19.
- Supervisory control system. R. J. Wensley. 1,714,967; May 28.
- Supervisory control system. R. J. Wensley, T. U. White, and J. E. Gardner. 1,714,966; May 28.
- Supervisory control system. T. U. White. 1,714,968-70; May 28.
- Supply and overflow, Combination. F. G. Brotz. 1,722,409; July 30.
- Supplying apparatus. E. R. Pope. 1,712,581; May 14.
- Supplying measured quantities of liquids or semiliquids, Apparatus for. B. M. Jager. 1,720,476; July 9.
- Supplying steam at low pressure to injectors, Continuous. S. L. Kneass. 1,712,148; May 7.
- Support. F. Jacobs. 1,730,732; Oct. 8.
- Support. A. Kehm. 1,710,422; Apr. 23.
- Support. E. E. Kern. 1,716,857; June 11.
- Support. R. Stein. 1,697,546; Jan. 1.
- Support, Abdominal. J. E. Parkinson. 1,727,668; Sept. 10.
- Support, Abdominal. S. A. Walton. 1,726,637; Sept. 3.
- Support, Acoustical wall. B. E. Balduf. 1,732,348; Oct. 22.
- Support, Adjustable back. I. B. Linebarger and W. F. Blue. 1,706,794; Mar. 26.
- Support, Adjustable bedclothes. H. Ritter. 1,718,665; June 25.
- Support, Adjustable bobbin. W. T. Barratt. 1,738,813; Dec. 10.
- Support, Adjustable Wall-radiator. A. E. Davis. 1,736,307; Nov. 19.
- Support and anchor for tractor hoists. S. B. Gorbitt. 1,737,840; Dec. 3.
- Support and arch protector, Bedclothes. F. G. Doyle. 1,741,361; Dec. 31.
- Support and housing for an electric-arc lamp, Combined. W. D. Teague. Des. 78,699; June 4.
- Support and shoulder brace, Back. E. Koeber. 1,733,349; Oct. 29.
- Support and spacer, Bar. W. E. White. 1,727,952; Sept. 10.
- Support, Antenna. L. O. Marsteller. 1,732,690; Oct. 22.
- Support, Antivibration. S. Rosenzweig. 1,734,596; Nov. 5.
- Support, Arch. C. D. Allen. 1,714,538; May 28.
- Support, Arch. M. Buti. 1,705,002; Mar. 12.
- Support, Arch. M. E. Christianson. 1,732,835; Oct. 22.
- Support, Arch. S. Darling, sr. 1,702,722; Feb. 19.
- Support, Arch. G. C. Hammann. 1,716,958; June 11.
- Support, Arch. H. T. S. Huntington. 1,738,827; Dec. 10.
- Support, Arch. N. E. Johnson. Re17,258; Apr. 2.
- Support, Arch. V. C. Mirizio. 1,709,183; Apr. 16.
- Support, Arch. W. D. Moore. 1,731,106; Oct. 8.
- Support, Arch. S. F. Moran. 1,702,661; Feb. 19.
- Support, Arch. W. M. Scholl. 1,736,418; Nov. 19.
- Support, Arch. W. M. Scholl. 1,741,341; Dec. 31.
- Support, Arch. J. A. Skoglund. 1,709,635; Apr. 16.
- Support, Arch and heel. H. P. Roberts. 1,708,683; Apr. 9.
- Support, Article. A. J. May. 1,705,582; Mar. 19.
- Support, Automatic desk-fall. C. F. Tholin. 1,722,484; July 30.
- Support, Automobile window-regulator. H. A. Myers. 1,732,981; Oct. 22.
- Support, Awning. E. E. McGrew. Re17,253; Apr. 2.
- Support, Back. R. R. Freund. 1,722,205; July 23.
- Support, Bedcover. M. D. Ealy. 1,732,716; Oct. 22.
- Support, Book. G. G. Mevi. 1,728,431; Sept. 17.
- Support, Book. C. R. Schenken. 1,737,178; Nov. 26.
- Support, Booster-motor. H. M. Pfager. 1,729,453; Sept. 24.
- Support, Box. S. N. Buchanan. 1,719,318; July 2.
- Support, Brake-beam. W. J. Stebler. 1,730,793; Oct. 8.
- Support, Brake-hanger. L. J. Brown. 1,734,712; Nov. 5.
- Support, Brake-hanger. V. H. Harbert. 1,705,519-21; Mar. 19.
- Support, Brake-hanger. M. S. Johnson. 1,725,922; Aug. 27.
- Support, Brake-hanger. W. O. Moody and L. J. Brown. 1,739,253; Dec. 10.
- Support, Brake-hanger. F. Schaefer. 1,739,990; Dec. 17.
- Support, Brake-shaft. V. Bendix. 1,728,654; Sept. 17.
- Support, Bridging and joist. H. J. Darling. 1,723,605; Aug. 6.
- Support, Cable. O. W. Brenizer. 1,705,233; Mar. 12.
- Support, Cable. F. A. Cannon. 1,726,536; Sept. 3.
- Support, Casement-window. V. J. Whitney. 1,735,367; Nov. 12.
- Support, Chin. A. Galbraith. 1,740,340; Dec. 17.
- Support, Clothes-hanger. D. H. Engelson. 1,703,872; Mar. 5.
- Support, Clothesline. J. Frank. 1,727,029; Sept. 3.
- Support, Clothesline. E. A. Glide. 1,733,534; Oct. 29.
- Support, Clothesline. J. E. Hester. 1,738,704; Dec. 10.
- Support, Clothesline. M. E. Sebranski. 1,709,919; Apr. 23.
- Support, Collapsible. H. F. Stover. 1,733,172; Oct. 29.
- Support, Collar. W. E. Oliver. 1,723,202; Aug. 6.
- Support, Combined insole and arch. W. MacDonald. 1,706,455; Mar. 26.
- Support, Concrete reinforcement. W. C. Kuhn. 1,724,843; Aug. 13.
- Support, Conductor. S. S. Matthes. 1,702,124; Feb. 12.
- Support, Conductor. S. S. Matthes. 1,718,751; June 25.
- Support, Conductor. W. Schaake. 1,735,131; Nov. 12.
- Support, Container. W. A. Johnson. 1,708,579; Apr. 9.
- Support, Corner-bridle-ring. G. B. Gordon. 1,697,061; Jan. 1.
- Support, Cover. L. Gutekunst. 1,708,473; Apr. 9.
- Support, Crank-shaft. J. B. Picard. 1,723,299; Aug. 6.
- Support, Cuboid. W. C. Burns. 1,728,780; Sept. 17.
- Support, Curtain. G. W. Dover. 1,704,180; Mar. 5.
- Support, Curtain. J. E. Moore. 1,703,013; Feb. 19.
- Support, Curtain-rod and shade-roller. J. A. Williams. 1,738,091; Dec. 3.
- Support device, Portable. P. W. Curtis. 1,713,116; May 14.
- Support, Disappearing. A. W. Leonhardt. 1,741,703; Dec. 31.
- Support, Display. J. L. Viscount. 1,705,052; Mar. 12.
- Support, Drapery-rod. R. N. McClure. 1,712,834; May 14.
- Support, Eaves-trough. C. P. Mullen. 1,706,458; Mar. 26.
- Support, Electric-fixture. G. J. Fadell. 1,709,614; Apr. 16.
- Support, Engine. H. S. Powell. 1,731,540; Oct. 15.
- Support, Engine. A. J. Sinclair. 1,717,524; June 18.
- Support, Engine rear. D. S. Taylor. 1,738,805; Dec. 10.
- Support, Fabricated wall. W. S. Connell. 1,733,779; Oct. 29.
- Support, Feeding-rack. H. Kaufman. 1,719,769; July 2.
- Support, Fence-guard. G. E. Armstrong. 1,735,664; Nov. 12.
- Support, Filter-bag. H. B. Waters. 1,728,381; Sept. 17.
- Support, Fire-extinguisher. W. B. Bronander. 1,708,867; Apr. 9.
- Support, Fish-bowl. B. Tauman. Des. 78,595; May 21.
- Support, Fishing-rod. W. T. Ferguson. 1,719,695; July 2.
- Support, Fixture. E. G. Appleton. 1,721,724; July 23.
- Support, Fixture. H. D'Olier, jr. 1,730,031; Oct. 1.
- Support, Flash-light. F. Helling. 1,737,237; Nov. 26.
- Support, Flash-light. E. F. Pawsat. 1,735,212; Nov. 12.
- Support, Floral-pillow. S. Shuko. 1,738,454; Dec. 3.
- Support, Flower. L. Rosenwald. 1,725,373; Aug. 20.
- Support, Foot. G. T. Bresnahan. 1,701,026; Feb. 5.



- Support, Foot. L. D. Noble. 1,703,895; Mar. 5.  
 Support, Foot. S. Paterniti. 1,726,583; Sept. 3.  
 Support, Foot and arch. A. Barbagallo. 1,710,856; Apr. 30.  
 Support, Foot-arch. G. A. Ernst. 1,709,253; Apr. 16.  
 Support, Foot-arch. J. A. Smith. 1,728,219; Sept. 17.  
 Support for air-brake-signal pipes of passenger cars, Sliding and swinging. J. H. Wilmore. 1,732,670; Oct. 22.  
 Support for artificial flowers. J. Friedman. 1,736,526; Nov. 19.  
 Support for bed bottoms in bedsteads, Spring-balanced transverse. C. Krumm. 1,719,771; July 2.  
 Support for bedsprings, Adjustable. F. Kusterle. 1,726,706; Sept. 3.  
 Support for bedsprings, Adjustable arm. F. Kusterle and W. A. Vollmer. 1,726,707; Sept. 3.  
 Support for bedsteads, Canopy. R. M. Maness. 1,737,664; Dec. 3.  
 Support for beds. W. H. Lincoln. 1,705,297; Mar. 12.  
 Support for brake hangers. V. H. Harbert. 1,713,280; May 14.  
 Support for brake hangers. J. McMullen. 1,701,536; Feb. 12.  
 Support for buffing, Tire-casing. D. F. Kellogg. 1,724,664; Aug. 13.  
 Support for can-soldering machines, Horn. P. Kruse. 1,700,134; Jan. 29.  
 Support for chair, davenport, and such like arms, Strap. S. Bell-Clifford. 1,725,508; Aug. 20.  
 Support for children's shoes, Ankle and arch. R. Botti. 1,717,432; June 18.  
 Support for clothes hangers. H. A. Lindquist. 1,716,923; June 11.  
 Support for color-projection machines, Plate. A. J. Oberg and R. R. Stoefer. 1,723,200; Aug. 6.  
 Support for concrete reinforcement. W. E. Mathews. 1,727,478; Sept. 10.  
 Support for concrete reinforcements. J. A. Williams and W. L. Whitman. 2d. 1,725,239; Aug. 20.  
 Support for containers. J. A. Carey. 1,719,097; July 2.  
 Support for curtain rods, towel racks, etc. L. Seiker. 1,727,487; Sept. 10.  
 Support for cushion seats, Resilient. A. Weickman and C. S. Olmsted. 1,701,831; Feb. 12.  
 Support for cutlery-sharpening machines, Work. H. G. Kelley. 1,726,571; Sept. 3.  
 Support for davenport, Bed extension. S. A. Hamiltonoff. 1,723,235; Aug. 6.  
 Support for electric lamps, Portable. A. B. Stewart. 1,722,773; July 30.  
 Support for electrically-heated articles, Removable. O. Kasten. 1,727,066; Sept. 3.  
 Support for endless conveyers. W. D. Coll. 1,708,357; Apr. 9.  
 Support for flexible doors of kitchen cabinets. A. I. S. Halvorsen. 1,697,646; Jan. 1.  
 Support for footwear, Combined heel and arch. H. A. Gartner. 1,728,536; Sept. 17.  
 Support for furniture, Spring. H. Asher. 1,724,892; Aug. 20.  
 Support for gutter-hanger circles. M. R. Berger. 1,717,829; June 18.  
 Support for gyroscopes and other sensitive elements. J. B. Henderson. 1,734,129; Nov. 5.  
 Support for headlights, Adjustable. G. C. Green. 1,724,083; Aug. 13.  
 Support for hoists, Load. W. C. Speck and E. Barker. 1,704,109; Mar. 5.  
 Support for implement retainers. J. Ditson. 1,728,601; Sept. 17.  
 Support for jewelry. A. Fischmann. 1,705,444; Mar. 12.  
 Support for ladders, Foot. W. C. Heidel. 1,735,003; Nov. 12.  
 Support for light globes. G. Green and G. Booth. 1,726,701; Sept. 3.  
 Support for lights and baggage carriers, Combined. F. Erwin. 1,731,407; Oct. 15.  
 Support for loading skips, Adjustable. C. F. Ball. 1,712,447; May 7.  
 Support for loom bobbins, Yielding. A. J. Chevette and K. J. Unwin. 1,724,256; Aug. 13.  
 Support for machine guns, Three-legged. W. C. L. Haulbroe. 1,728,757; Sept. 17.  
 Support for maps or charts. J. G. McConnell. 1,725,009; Aug. 20.  
 Support for menus or bills-of-fare. H. Timm. 1,732,389; Oct. 22.  
 Support for milking pails. S. Hohulin. 1,739,674; Dec. 17.  
 Support for motor-vehicle engines. W. L. Modrea. 1,719,326; July 2.  
 Support for motor vehicles, Temporary broken-spring. K. B. Dotson. 1,736,113; Nov. 19.  
 Support for motorists, Map. F. F. Brow. 1,733,293; Oct. 29.  
 Support for music stands, Instrument. W. Henry. 1,734,577; Nov. 5.  
 Support for operation chairs of any kind, Head. G. Zettel. 1,713,361; May 14.  
 Support for overstuffed furniture seats. J. M. Hoague. 1,737,241; Nov. 26.  
 Support for pipes, rods, and the like. A. D. Williams, F. B. Gillett, and R. P. Clark. 1,735,192; Nov. 12.  
 Support for radiocabinets or the like. A. Véricel. Des. 79,343; Sept. 3.  
 Support for railway cars, Spring. W. C. Whitcomb and W. F. Eckert. 1,718,446; June 25.  
 Support for resistances. W. Dubilier. 1,740,160; Dec. 17.  
 Support for ring travelers. G. H. Gilligan. 1,724,471; Aug. 13.  
 Support for rolls, End. W. J. Simonds and C. C. Harris. 1,730,633; Oct. 8.  
 Support for roofs and the like, Trussless. G. L. Kelly. 1,737,049; Nov. 26.  
 Support for rotary dumps, Roller. E. Ramsay. 1,706,985; Mar. 26.  
 Support for sadirons. C. Foucher. 1,737,081; Nov. 26.  
 Support for scaffolds and the like. R. Pfug. 1,698,607; Jan. 8.  
 Support for sheet-glass apparatus, Cooler. G. M. Snodgrass. 1,731,278; Oct. 15.  
 Support for shelves and the like. A. J. Marchant. 1,712,389; May 7.  
 Support for skate runners and making same. G. E. Schmidt. 1,707,495; Apr. 2.  
 Support for spring frames, Adjustable. J. F. Brown. 1,727,630; Sept. 10.  
 Support for surface-treating machines, Work-engaging. A. A. Clarke. Ref. 7,482; Nov. 5.  
 Support for tank cars, Placard. W. A. Taylor and C. M. Cidley. 1,717,528; June 18.  
 Support for telephone receivers. S. Pastore. 1,741,950; Dec. 31.  
 Support for thermionic tubes. A. Schmidt. 1,735,133; Nov. 12.  
 Support for tire casings or the like. G. H. Dunn. 1,712,915; May 14.  
 Support for tractor bodies. J. H. Clark. 1,713,114; May 14.  
 Support for train connectors, Adjustable head. E. A. Robinson. 1,715,786; June 4.  
 Support for trousers. H. Hentzler. 1,724,480; Aug. 13.  
 Support for use by shoe repairers, Shoe. H. S. Pochlin. 1,711,424; Apr. 30.  
 Support for vertical files. W. I. Cubberley. 1,725,702; Aug. 20.  
 Support for washing machines. O. E. Szekely. 1,736,949; Nov. 26.  
 Support for weighing scales. D. W. Hall. 1,711,564; May 7.  
 Support for window curtains, Adjustable. R. C. Vogt. 1,720,308; July 9.  
 Support for wire mattresses. C. A. Brandreth. 1,718,522; June 25.  
 Support for wires. P. K. Povlsen and E. St. John. 1,720,746; July 16.  
 Support, Garment. F. Chardon. 1,721,498; July 16.  
 Support, Garment. P. Morin and F. D. Lorenz. 1,717,933; June 18.  
 Support, Garment. W. H. Rose. 1,710,112; Apr. 23.  
 Support, Garment-hanger. M. Victorsohn. 1,706,683; Mar. 26.  
 Support, Girdle and hose. J. Spexarth. 1,730,792; Oct. 8.  
 Support, Golf-bag. W. H. Gunther. 1,738,242; Dec. 3.  
 Support, Golf-bag. R. E. Wing. 1,739,702; Dec. 17.  
 Support, Grate-bar. W. H. Ridgwell. 1,721,413; July 16.  
 Support, Hammock or crib. E. B. Nathan. 1,719,440; July 2.  
 Support, Hat. M. G. Hoppin. 1,710,478; Apr. 23.  
 Support, Hat. J. Van Dyke. 1,736,809; Nov. 26.  
 Support, Headrest. J. E. Villatore and B. Mammone. 1,716,806; June 11.  
 Support, Heel and arch. H. H. Ahern. 1,701,252; Feb. 5.  
 Support, Heel and arch. W. E. Cochran. 1,701,804; Feb. 12.  
 Support hook. J. Ehronberg. 1,729,334; Sept. 24.  
 Support hook. G. E. Jones. 1,728,613; Sept. 17.  
 Support, Insulating. S. H. Lanyon. 1,738,188; Dec. 3.  
 Support, Insulating. F. W. Peek, jr. 1,741,333; Dec. 31.  
 Support, Insulator. J. Blackburn, A. Albrecht, and H. J. Peele. 1,709,555; Apr. 16.  
 Support, Invalid. H. N. Cropsey. 1,731,709; Oct. 15.  
 Support, Lamp. W. G. Dunham. 1,723,471; Aug. 6.  
 Support, Lamp. M. W. Shilling. Des. 77,372; Jan. 1.  
 Support, Lavatory. E. G. Watrous. 1,722,614; July 30.  
 Support, Locomotive-spring. W. G. Whitcomb and W. F. Eckert. 1,718,445; June 25.  
 Support, Machinery. C. C. Spreen. 1,727,945; Sept. 10.  
 Support, Magnifying-glass. H. A. Walsh. 1,723,262; Aug. 6.  
 Support, Mast. R. H. Ferraioli. 1,720,322; July 9.  
 Support, Mirror. W. C. McGrath. Des. 78,529; May 14.  
 Support, Motor. F. A. Whitten. 1,701,400; Feb. 5.  
 Support or carrier for material to be sifted. H. Schubert. 1,727,944; Sept. 10.  
 Support or hanger for bottom connecting rods, Safety loop. H. W. Ekholm. 1,724,265; Aug. 13.  
 Support or tray for folding ironing boards, Self-acting iron. W. I. Ravert. 1,722,859; July 30.  
 Support, Pan. A. J. Jacobs. 1,737,158; Nov. 26.  
 Support, Pedestal. H. C. Kihneman, sr. 1,739,466; Dec. 10.  
 Support, Pipe. R. D. Ballantyne. 1,703,605; Feb. 26.  
 Support, Pipe. G. O. Shefstead. 1,726,244; Aug. 27.  
 Support, Pipe. G. Wollenschlager. 1,737,989; Dec. 3.  
 Support, Pipe and radiator. J. A. Faber. 1,740,769; Dec. 24.  
 Support, Plant. J. Dal Maso. 1,740,364; Dec. 17.  
 Support, Pole. W. Rawley. 1,722,352; July 30.



- Support, Portable pipe-cutting torch. J. L. Irvin and L. A. Brauer. 1,705,923; Mar. 19.
- Support, Propeller-shaft. O. Mader. 1,740,362; Dec. 17.
- Support, Pull-line. E. F. Strain. 1,698,742; Jan. 15.
- Support, Rail. L. M. Adams. 1,741,005; Dec. 24.
- Support, Rail-joint. W. J. Niedergesaess. 1,721,314; July 16.
- Support, Rail-joint. A. Premro. 1,716,186; June 4.
- Support, Railway-brake-beam. S. A. Crone. 1,698,393; Jan. 8.
- Support, Reinforcing fabric-. W. E. White. 1,737,396; Nov. 26.
- Support, Resilient. J. J. White. 1,733,479; Oct. 29.
- Support, Roof. E. O'Toole. 1,735,974; Nov. 19.
- Support, Rubber motor. H. S. Golden. 1,729,381; Sept. 24.
- Support, Scaffold. G. E. Sloan. 1,722,018; July 23.
- Support, Screenshot. J. S. O'Hare. 1,710,891; Apr. 30.
- Support, Seat. O. V. Kean. 1,738,331; Dec. 10.
- Support, Shank. F. F. Marx. 1,717,721; June 18.
- Support, Shoe-arch. T. H. Joyce. 1,698,635; Jan. 8.
- Support, Shoe-buckle. C. A. Buick. 1,714,493; May 28.
- Support, Signal and switch carrier. O. S. Flath. 1,730,606; Oct. 8.
- Support stand. J. L. Sowers. 1,723,385; Aug. 6.
- Support, Stand-boiler. M. L. Austin. 1,713,685; May 21.
- Support structure, Wall-. E. F. Hauserman, L. D. Mowery, and J. A. Bohnsack. 1,725,349; Aug. 20.
- Support, Swiveling pen. C. A. Travor. 1,728,642; Sept. 17.
- Support, Tank. E. E. Boardman. 1,732,829; Oct. 22.
- Support, Telephone. W. M. Valentine. 1,737,209; Nov. 26.
- Support, Telephone-receiver. M. Sellinger and P. Rawdin. 1,736,341; Nov. 26.
- Support, Temporary. E. B. Dowd. 1,702,251; Feb. 19.
- Support, Terminal box. F. A. Tefft. 1,733,840; Oct. 29.
- Support, Tilting work. R. T. Hazelton. 1,716,129; June 4.
- Support, Tire. H. L. Kneen. 1,734,384; Nov. 5.
- Support, Toilet-fixture. R. T. Frye. 1,706,235; Mar. 19.
- Support, Torch. I. D. Greene. 1,704,473; Mar. 5.
- Support, Trouser-leg. W. H. Stringfield. 1,697,617; Jan. 1.
- Support, Trunking. B. A. Lundy. 1,726,992; Sept. 3.
- Support, Tubing. W. Wright. 1,708,645; Apr. 9.
- Support, Umbrella. A. L. Rice. 1,704,407; Mar. 5.
- Support, Upholstery. S. L. Warren. 1,737,815; Dec. 3.
- Support, Valve. L. H. Wellensiek. 1,725,235; Aug. 20.
- Support, Verminproof perch. A. Johnson. 1,736,499; Nov. 19.
- Support, Violin. I. von Linprun. 1,740,824; Dec. 24.
- Support, Watch. E. G. Dann. 1,733,643; Dec. 10.
- Support, Water-closet-bowl. W. E. Hinsdale. 1,709,132; Apr. 16.
- Support, Weather-strip. G. Lasker. 1,735,048; Nov. 12.
- Support, Window. J. P. Thorsley. 1,713,935; May 21.
- Support, Window and door hangings fixture. L. A. Smith. 1,709,236; Apr. 16.
- Support with foot-forming sole, Ankle. F. Bingler. 1,718,521; June 25.
- Support, Work. F. M. Furber. 1,738,570; Dec. 10.
- Support, Work. G. Goddu. 1,733,190; Oct. 29.
- Support, Work. V. E. Hipperson and J. Gouldbourn. 1,737,719; Dec. 3.
- Support, Work. F. L. Mackenzie. 1,716,592; June 11.
- Support, Wrist. H. H. Hansard. 1,728,679; Sept. 17.
- Support, Yielding seat. C. Froesch. 1,731,412; Oct. 15.
- Supporter. W. H. Frost. 1,734,371; Nov. 5.
- Supporter and foot adjuster, Fallen-arch. J. C. Torchia. 1,733,678; Oct. 29.
- Supporter and girdle, Combination abdominal. N. Gillespie. 1,696,909; Jan. 1.
- Supporter and undergarment, Combined. R. B. Scognamiglio. 1,701,425; Feb. 5.
- Supporter, Arch. G. F. Madinger. 1,710,831; Apr. 30.
- Supporter, Arch. C. C. Warner. 1,704,813; Mar. 12.
- Supporter, Arch and ankle. J. Cohn. 1,718,931; June 25.
- Supporter, Breast. R. R. Wolstsem. 1,741,898; Dec. 31.
- Supporter, Garment. J. B. Freysinger. 1,702,999; Feb. 19.
- Supporter, Garment. C. J. Hazleton. 1,701,475; Feb. 5.
- Supporter, Garment. W. C. Herbert. 1,705,616; Mar. 19.
- Supporter, Garment. F. Levy. 1,740,026; Dec. 17.
- Supporter, Garment. R. Rothman. 1,724,728; Aug. 13.
- Supporter, Garment. E. A. Taylor. 1,704,927; Mar. 12.
- Supporter, Garment. C. C. Walch. 1,741,212; Dec. 31.
- Supporter, Garment. B. Wilson. 1,721,874; July 23.
- Supporter gripping device, Hose-. J. M. Bodensiek. 1,733,444; Oct. 29.
- Supporter, Hose. E. E. Converse. 1,724,344; Aug. 13.
- Supporter, Hose. E. Hauser. 1,718,819; June 25.
- Supporter, Hose. D. R. Jones. 1,733,020; Oct. 22.
- Supporter, Hose. I. E. O'Brien. 1,732,946; Oct. 22.
- Supporter, Hose. I. Roth. 1,698,071; Jan. 8.
- Supporter, Hose. W. B. Schofield. 1,721,749; July 23.
- Supporter, Kitchen-utensil. A. Brown. 1,697,711; Jan. 1.
- Supporter, Suspender and spinal. J. Glass. 1,715,196; May 28.
- Supporters or hangers, Attachment for garment. E. A. Spear. 1,716,985; June 11.
- Supporting a tube that is being deformed, Internally. A. Cotton. 1,713,818; May 21.
- Supporting and clamping device. C. Sauer. 1,740,876; Dec. 24.
- Supporting and connecting device, Fixture. S. J. Aaron. 1,698,707; Jan. 15.
- Supporting and feeding means, Paper. O. J. Sundstrand. 1,708,284; Apr. 9.
- Supporting and inclosing ink bottles, Device for. W. L. Fry. 1,707,790; Apr. 2.
- Supporting and track-receiving device, Casing-. H. Dixon. 1,756,760; Nov. 19.
- Supporting arches, Apparatus for. J. M. Hiss. Re17,243; Mar. 26.
- Supporting arrangement for vehicle lamps. E. C. Taylor. 1,722,641; July 30.
- Supporting attachment for jacks. M. F. McLaughlin. 1,700,295; Jan. 29.
- Supporting baffles in oil-filled bushings. A. O. Austin. 1,726,096; Aug. 27.
- Supporting bracket. F. J. Pilat and P. A. Galgan. 1,736,218; Nov. 19.
- Supporting bracket, Curtain-rail-. G. F. French. 1,712,658; May 14.
- Supporting bracket for visor glasses. S. Trolle. 1,737,814; Dec. 3.
- Supporting bracket, Insulator. E. W. Lundell. 1,722,672; July 30.
- Supporting branches of trees, Device for. A. O. Mueller. 1,718,971; July 2.
- Supporting car bodies on trucks. C. L. Charles. 1,706,350; Mar. 19.
- Supporting clip, Plant-. J. W. Bauer. 1,737,873; Dec. 3.
- Supporting composite strands, Apparatus for. G. J. Houts. 1,719,609; July 2.
- Supporting concrete steel reinforcing bars, Device for. C. E. Bowers. 1,734,994; Nov. 12.
- Supporting detachable electric barriers. P. Nicholay. 1,704,920; Mar. 12.
- Supporting device. V. C. Johansson. 1,717,156; June 11.
- Supporting device. C. K. Woodbridge. 1,705,053; Mar. 12.
- Supporting device for drawings and the like. C. Corliss. 1,700,157; Jan. 29.
- Supporting device for rails. J. J. Macklem. 1,736,501; Nov. 19.
- Supporting device for trolley wires and other conductors. H. P. Chandler. 1,730,406; Oct. 8.
- Supporting device for welding flyers. A. M. Guillet. 1,722,212; July 23.
- Supporting device, Golf-bag-. G. W. Lescher. 1,727,612; Sept. 10.
- Supporting device, Saw-. D. M. Auvil. 1,721,199; July 16.
- Supporting device, Scaffold. J. A. Macdonald. 1,722,529; July 30.
- Supporting element for hollow electric conductors and apparatus for manufacturing the same. A. Fuchs, F. Hanff, and G. Lanz. 1,720,213; July 9.
- Supporting frame for electric lines. G. J. Darrieus. 1,727,811; Sept. 10.
- Supporting hook. A. H. Masten. 1,716,826; June 11.
- Supporting horse. E. H. Boss. 1,701,606; Feb. 12.
- Supporting means, Adjustable. G. O. Wilkinson. 1,731,804; Oct. 15.
- Supporting means, Bathtub-. J. Eggers. 1,712,202; May 7.
- Supporting means for air lines. W. Wright. 1,718,912; June 25.
- Supporting means for book-type binders. A. M. Martin. 1,722,810; July 30.
- Supporting means for gyroscopic compasses. C. B. Mills. 1,739,251; Dec. 10.
- Supporting means for liquid-fuel burners. J. W. H. Ainscow. 1,718,101; June 18.
- Supporting means for well tubing. J. K. Putnam. 1,727,080; Sept. 3.
- Supporting outlet boxes, Adjustably. G. Carlson. 1,734,893; Nov. 5.
- Supporting plate, Window-regulator-. H. A. Myers. 1,718,483; June 25.
- Supporting rack, Trough-. N. M. Elbon. 1,735,739; Nov. 12.
- Supporting rolled goods, Device for. E. V. Kraus. 1,701,046; Feb. 5.
- Supporting sheets of paper and the like, Device for. C. S. Bock. 1,739,057; Dec. 10.
- Supporting stand. W. A. Porteous. Des. 79,385; Sept. 10.
- Supporting standard for cylinder hones. E. A. Hall. 1,723,160; Aug. 6.
- Supporting structure, Sheet-material-. A. D. Cloke. 1,712,136; May 7.
- Supporting the skid bars or like elements in sawmills. G. M. Pelton. 1,741,951; Dec. 31.
- Supports for concrete forms. F. A. Beckley and A. G. Larson. 1,719,528; July 2.
- Supports, Housing for lighting-fixture. R. V. Owen. 1,714,518; May 28.
- Suppository. W. L. Schaaf. 1,737,949; Dec. 3.
- Surface condenser. C. A. Parsons. 1,739,415; Dec. 10.
- Surface covering and ornamenting same. R. D. Bonney. 1,722,239; July 23.
- Surface covering and ornamenting the same. C. F. Humphreys and J. C. McCarthy. 1,697,426; Jan. 1.
- Surface finisher. H. de Jong. 1,714,350; May 21.
- Surface-finishing device. A. I. Hawn. 1,706,402; Mar. 26.
- Surface-hardened material and producing the same. A. B. Kinzel. 1,736,919; Nov. 26.
- Surface heater. F. H. Moore. 1,712,629; May 14.
- Surface ornamentation. L. L. Simon. 1,711,330; Apr. 30.
- Surfaced paper sheet and boards, Manufacture of. G. F. Blombery. 1,720,716; July 16.
- Surfacer. I. M. Abram. 1,713,513; May 21.
- Surfacing apparatus. A. W. Mall. 1,725,361; Aug. 20.



- Surfacing apparatus. H. R. Stratford. 1,737,099; Nov. 26.  
 Surfacing machine. W. H. Markland. 1,716,861; June 11.  
 Surfacing machine. A. E. Maynard. 1,697,990; Jan. 8.  
 Surfacing machine. A. E. Maynard and W. A. Gunning. 1,722,586; July 30.  
 Surfacing machine. W. Owen. 1,702,521; Feb. 19.  
 Surfacing material. C. K. Ross. Re17,894; Aug. 6.  
 Surfacing, Sheet. A. L. Harrington. 1,705,918; Mar. 19.  
 Surf board. E. G. Erickson. 1,723,473; Aug. 6.  
 Surge arrester. I. S. Crocker. 1,717,192; June 11.  
 Surge recorder. J. F. Peters. 1,702,412; Feb. 19.  
 Surgical appliance. J. Glass. 1,741,457; Dec. 31.  
 Surgical appliance. C. S. Throgmorton. 1,709,046; Apr. 16.  
 Surgical appliance. H. M. Young. 1,721,581; July 23.  
 Surgical clamp. W. M. Sprigg. 1,708,432; Apr. 9.  
 Surgical instrument. S. H. Groff. 1,714,220; May 21.  
 Surgical instrument. F. P. Herman. 1,731,069; Oct. 8.  
 Surgical instrument. F. P. Herman. 1,741,461; Dec. 31.  
 Surgical instrument. T. F. Hyde. 1,708,578; Apr. 9.  
 Surgical instrument. C. R. Meitzler. 1,704,397; Mar. 5.  
 Surgical instrument, Light-projecting. W. N. Allyn. 1,712,865; May 14.  
 Surgical instrument, Skin-graft. V. P. Blair. 1,736,246; Nov. 19.  
 Surgical operating cushion. L. L. Gilbert. 1,741,836; Dec. 31.  
 Surgical pumping unit. E. J. Sovatkin. 1,712,851; May 14.  
 Surgical retractor. H. J. Smith. 1,706,500; Mar. 26.  
 Surgical snare. E. H. Langbein. 1,722,474; July 30.  
 Surgical table, Veterinary. L. E. Trees. 1,717,531-2; June 18.  
 Surveying instruments, Limb for. W. L. Egy. 1,731,848; Oct. 15.  
 Suspended carrier. A. C. Garnett. 1,725,264; Aug. 20.  
 Suspender-adjusting device. J. M. Clark. 1,729,608; Oct. 1.  
 Suspender, Garment. G. R. Vollman, jr. 1,706,758; Mar. 26.  
 Suspender loop. R. A. Neal. 1,701,694; Feb. 12.  
 Suspenders, Pair of. S. Riser. Des. 78,225; Apr. 9.  
 Suspending skins, hides, and the like, Apparatus for. P. J. Breitenbach and A. D. J. Vollmert. 1,715,187; May 28.  
 Suspension. E. J. Card and V. A. Gronberg. 1,725,338; Aug. 20.  
 Suspension arm, Multiple manipulating. J. A. Cameron. 1,736,250; Nov. 19.  
 Suspension composition. C. Ellis. 1,737,006; Nov. 26.  
 Suspension construction, Vehicle. R. E. Marston. 1,709,991; Apr. 23.  
 Suspension device. E. A. Wyss. 1,736,240; Nov. 19.  
 Suspension device for mail-chute panels. H. M. Kennedy. 1,736,918; Nov. 26.  
 Suspension device for papers. H. E. Treworgy. 1,731,279; Oct. 15.  
 Suspension for vehicles, Spring. H. Smith. 1,727,415; Sept. 10.  
 Suspension hook. A. De Stoop. 1,712,875; May 14.  
 Suspension means. W. J. Gagnon. 1,721,338; July 16.  
 Suspension means, Automotive. A. C. Peterson. 1,701,335; Feb. 5.  
 Suspension parts. G. P. Lee and W. T. Lewis. 1,704,570; Mar. 5.  
 Suture. C. H. Watson. 1,741,893; Dec. 31.  
 Swab. A. B. Crowell and D. G. Lorraine. 1,715,121; May 28.  
 Swab. F. H. Miracle. 1,726,407; Aug. 27.  
 Swab-forming machine. P. Codina. 1,702,813; Feb. 19.  
 Swab packers, Compensating for wear on. J. T. Phipps. 1,717,518; June 18.  
 Swab-release mechanism. H. R. Standlee. 1,719,028; July 2.  
 Swab, Well. I. C. Bell. 1,700,305; Jan. 29.  
 Swaging machine. F. M. Ruth. 1,721,283; July 16.  
 Swatter, Fly. G. A. Maharg. 1,705,872; Mar. 19.  
 Sweatband. A. W. Rockwood and C. A. Milbery. 1,731,025; Oct. 8.  
 Sweater. G. Grushlaw. 1,701,920; Feb. 12.  
 Sweater. N. Neuman. 1,705,092; Mar. 12.  
 Sweater. N. Neuman. 1,715,943; June 4.  
 Sweep tooth. G. E. Hornby. 1,728,287; Sept. 17.  
 Sweeper, Carpet. I. J. Owen. 1,741,163; Dec. 31.  
 Sweeper, Mechanical chimney. K. Fahrenbach and W. J. Freck. 1,725,980; Aug. 27.  
 Sweeper, Suction. M. E. Nulsen. 1,718,302; June 25.  
 Sweeper with brush-cleaning device, Carpet. I. J. Owen. 1,706,039; Mar. 19.  
 Sweetening hydrocarbon oils. M. G. Paulus. 1,716,973; June 11.  
 Sweetmeats frame. H. Lerner and A. Ginsburg. Des. 78,471; May 7.  
 Swimmer's appliance. P. E. Greer. 1,727,202; Sept. 3.  
 Swimming apparatus. R. G. Chaligné. 1,728,103; Sept. 10.  
 Swimming appliance. H. Beckert. 1,706,974; Mar. 26.  
 Swimming appliance. A. F. Fibiger. 1,712,655; May 14.  
 Swimming appliance. A. J. Schwalge. 1,705,738; Mar. 19.  
 Swimming board or life preserver. F. Walcher. 1,706,090; Mar. 19.  
 Swimming device. A. E. Anderson. 1,713,733; May 21.  
 Swimming device. O. Barbosa. 1,702,681; Feb. 19.  
 Swimming device. S. Brygider. 1,704,550; Mar. 5.  
 Swimming device. V. Klodnyckij. 1,706,978; Mar. 26.  
 Swimming-pool scum-gutter-overflow control. W. A. Becker. 1,714,069; May 21.  
 Swing. C. J. Baldwin. 1,734,845; Nov. 5.  
 Swing. A. R. Marshall. 1,707,167; Mar. 26.  
 Swing. T. D. Smedley. 1,706,863; Mar. 26.  
 Swing. T. D. Smedley. 1,714,247; May 21.  
 Swing. A. G. Smolensky. 1,726,322; Aug. 27.  
 Swing. E. Stock. 1,726,934; Sept. 3.  
 Swing and like device, Porch. W. G. Uhlir. 1,726,251; Aug. 27.  
 Swing, Baby. M. Luery. 1,740,949; Dec. 24.  
 Swing casements and the like, Adjuster for. B. E. Bartholomew. 1,732,709; Oct. 22.  
 Swing chair. B. Goodman. Des. 78,018; Mar. 19.  
 Swing, Convertible. T. P. Anello. 1,702,190; Feb. 12.  
 Swing, Diving. C. E. Hoppes. 1,731,532; Oct. 15.  
 Swing hanger. W. R. Leas. 1,701,683; Feb. 12.  
 Swing joint. G. C. Schmidt. 1,700,955; Feb. 5.  
 Swing or similar article. A. J. Lehman. Des. 77,606; Jan. 29.  
 Swing, Porch. P. F. Reddick. 1,741,075; Dec. 24.  
 Swing, Rotary. C. C. Milikan. 1,709,273; Apr. 16.  
 Swing-spout measure having manually-controlled valve. S. E. Allen and O. N. Wiswell. 1,725,170; Aug. 20.  
 Switch: See—  
 Air-actuated switch. Oil break switch.  
 Air-break electric switch. Oil switch.  
 Air-break switch. Opening switch.  
 Automatic switch. Panel main switch.  
 Burglar-alarm switch. Pendant switch.  
 Canopy switch. Pressure-operated switch.  
 Centrifugal switch. Protector switch.  
 Circuit switch. Push-button switch.  
 Combination switch. Pyrometer-reading switch.  
 Compound switch. Quick-acting switch.  
 Connecting switch. Railroad switch.  
 Contact switch. Railway switch.  
 Control switch. Relay switch.  
 Convertible switch. Reversing switch.  
 Direction-indicator switch. Rotary line switch.  
 Disconnecting switch. Rotary switch.  
 Door-operated switch. Safety pressure-actuated switch.  
 Double-throw switch. Safety switch.  
 Electric-circuit switch. Selector switch.  
 Electric control switch. Short-circuiting switch.  
 Electric switch. Sign-flasher switch.  
 Electric time switch. Signal-controlling switch.  
 Electric wheel switch. Signal switch.  
 Electrical switch. Signaling switch.  
 Electromagnetic retarded switch. Snap-over switch.  
 Electromagnetic switch. Snap switch.  
 Enclosed switch. Split switch.  
 Extension switch. Starting switch.  
 Frequency-changing switch. Testing switch.  
 Gravity friction switch. Thermostat alarm switch.  
 Ground switch. Thermostatic control switch.  
 High-voltage switch. Thermostatic switch.  
 Horn button switch. Time switch.  
 Ignition switch. Tire-deflation switch.  
 Inclosed fused switch. Toggle switch.  
 Inclosed switch. Track switch.  
 Knife-blade switch. Transmission - system switch.  
 Lighting switch. Treadle switch.  
 Lock switch. Trigger switch.  
 Locking plug switch. Trolley switch.  
 Magnetic switch. Tumbler switch.  
 Make-and-break switch. Vacuum-cleaner switch.  
 Mercury switch. Vehicle indicator switch.  
 Metal switch. Water-signal switch.  
 Meter switch. Weighing-scales switch.  
 Motor-starting switch. Weight-operated switch.  
 Multiple switch.  
 Noiseless switch.  
 Switch. A. Alsaker and S. J. Lurie. 1,709,453; Apr. 16.  
 Switch. E. G. Appleton. 1,699,601; Jan. 22.  
 Switch. H. H. Blough. 1,706,518; Mar. 26.  
 Switch. L. P. Boll and A. C. Hansen, jr. 1,708,077; Apr. 9.  
 Switch. W. J. Chiles. 1,729,735; Oct. 1.  
 Switch. J. G. Craft. 1,709,206; Apr. 16.  
 Switch. A. G. Decker. 1,741,406; Dec. 31.  
 Switch. P. F. Denning. 1,729,929; Oct. 1.  
 Switch. F. Ellis. 1,734,851; Nov. 5.  
 Switch. F. Farrell. 1,707,461; Apr. 2.  
 Switch. J. E. Fisher. 1,732,157; Oct. 15.  
 Switch. H. J. L. Frank. 1,731,489; Oct. 15.  
 Switch. K. F. Gallimore. 1,736,493; Nov. 19.  
 Switch. C. F. Gilchrist. 1,735,112; Nov. 12.  
 Switch. W. O. Hampton and E. J. Thompson. 1,711,229; Apr. 30.  
 Switch. A. H. Hardman. 1,703,394; Feb. 26.  
 Switch. J. H. Hobson. 1,739,673; Dec. 17.  
 Switch. W. H. Horrum. 1,702,829; Feb. 19.  
 Switch. E. H. Jacobs. 1,707,479; Apr. 2.  
 Switch. E. H. Jacobs. 1,711,501; May 7.  
 Switch. H. D. James. 1,729,875; Oct. 1.  
 Switch. L. Kellner. 1,733,267; Oct. 29.  
 Switch. C. R. Krone. 1,697,980; Jan. 8.  
 Switch. M. M. Levinson. 1,714,680; May 28.  
 Switch. A. F. C. Lotz. 1,716,646; June 11.  
 Switch. M. Mackie. 1,710,884; Apr. 30.  
 Switch. I. E. Novinger. 1,707,739; Apr. 2.  
 Switch. A. E. Phillips. 1,705,136; Mar. 12.  
 Switch. J. C. Rainey. 1,719,999; July 9.



- Switch. J. Sandin and H. J. Crabbs. 1,705,684; Mar. 19.  
 Switch. L. J. Voorhees. 1,714,531; May 28.  
 Switch. C. S. Wakeland. 1,726,683; Nov. 19.  
 Switch. C. Williams and E. G. Appleton. 1,699,645; Jan. 22.  
 Switch. G. A. Yanochowski. 1,708,039; Apr. 9.  
 Switch. F. R. Zumbro and F. Shenton. 1,739,435; Dec. 10.  
 Switch action, Delayed. P. P. Kaufman. 1,698,548; Jan. 8.  
 Switch-actuating means, Time-. E. Zbinden. 1,702,715; Feb. 19.  
 Switch and choke, Combined starter. G. L. Seifert. 1,733,911; Oct. 29.  
 Switch and closing mechanism therefor, Electric. G. A. Burnham. 1,741,824; Dec. 31.  
 Switch and fuse box, Safety. M. J. Caldwell. 1,725,441; Aug. 20.  
 Switch and fuse-plug socket. F. P. Gates. 1,698,587; Jan. 8.  
 Switch and locking means therefor, Spring. F. C. Stuart. 1,703,254; Feb. 26.  
 Switch and operating means therefor, Electric. G. R. Townsend. 1,738,406; Dec. 3.  
 Switch and operating same, Electric. F. S. Denison. 1,716,951; June 11.  
 Switch and plug cap, Combined. W. Huppert. 1,728,549; Sept. 17.  
 Switch and remote-control signaling and telephone system, Electromechanically-controlled. F. Aldendorff. 1,730,049; Oct. 1.  
 Switch and socket, Electric pull. F. Rosner. 1,730,043; Oct. 1.  
 Switch and venting system therefor, Electric. C. D. Ainsworth. 1,737,955; Dec. 3.  
 Switch apparatus, Car-controlling. J. E. Boyce and K. L. Howell. 1,702,807; Feb. 19.  
 Switch apparatus, Electric. F. Prantl. 1,709,947; Apr. 23.  
 Switch apparatus, Flash-sign advertising. H. S. Coleman. 1,717,370; June 18.  
 Switch apparatus for automobiles, Signaling. J. L. Scott. 1,721,418; July 16.  
 Switch arrangement. G. H. Hart. 1,715,917; June 4.  
 Switch-bank contact. K. Böhme. 1,697,221; Jan. 1.  
 Switchboard and interlocking mechanism for the switches thereof, Truck-type. M. B. Wood. 1,726,204; Aug. 27.  
 Switchboard signal-light socket and resistance. F. D. Wyatt. 1,731,329; Oct. 15.  
 Switch box. E. G. Appleton. 1,734,322; Nov. 5.  
 Switch box. G. H. Calhoun. 1,739,124; Dec. 10.  
 Switch box. E. T. Hagist. 1,737,235; Nov. 26.  
 Switch box. T. E. Murray, jr., and A. B. Rypinski. 1,700,745; Feb. 5.  
 Switch box. G. B. Wadsworth. 1,728,143; Sept. 10.  
 Switch box, Electrical. G. B. Wadsworth. 1,728,222; Sept. 17.  
 Switch-box guard. M. P. Luther. 1,710,172; Apr. 23.  
 Switch-box mounting. C. A. Johnson and G. Nyberg. 1,705,768; Mar. 19.  
 Switch box or receptacle. J. Morgenstern. 1,725,293; Aug. 20.  
 Switch box, Protective. A. E. Blackman. 1,731,812; Oct. 15.  
 Switch box, Protective. A. E. Blackman. 1,731,919; Oct. 15.  
 Switch box, Spring. T. A. Gerlach. 1,726,819; Sept. 3.  
 Switch button. T. L. Parker. 1,724,039; Aug. 13.  
 Switch casings or the like, Panel mounting for. R. K. Winning. 1,719,741; July 2.  
 Switch construction. R. B. Benjamin. 1,725,560; Aug. 20.  
 Switch construction. L. Blackmore. 1,738,755; Dec. 10.  
 Switch construction. H. C. Doane and L. Blackmore. 1,738,764; Dec. 10.  
 Switch construction. E. N. Jacobi. 1,724,024; Aug. 13.  
 Switch construction for automobiles. R. B. Benjamin. 1,705,515; Mar. 19.  
 Switch construction, Inclosed-. H. J. Hammerly. 1,727,767; Sept. 10.  
 Switch construction, Push-button-. C. Miller. 1,699,491; Jan. 15.  
 Switch control. S. H. Rowland. 1,710,191; Apr. 23.  
 Switch control, Automatic. L. Bernier. 1,714,124; May 21.  
 Switch control, Flexible. H. J. Murray. 1,710,708; Apr. 30.  
 Switch-control mechanism. C. G. Bradshaw. 1,730,057; Oct. 1.  
 Switch-control mechanism. F. H. Cushing. 1,718,895; June 25.  
 Switch control, Steering-column combination lighting and ignition. H. C. Doane. 1,729,373; Sept. 24.  
 Switch-control system. W. M. Scott. 1,719,086; July 2.  
 Switch controller, Railway-. R. M. Gilson and A. B. Miller. 1,702,049; Feb. 12.  
 Switch-controlling apparatus, Railway-. L. E. Spray. 1,705,593; Mar. 19.  
 Switch-controlling device. F. E. Lumley. 1,713,290; May 14.  
 Switch device. H. E. Norviel. 1,727,034; Sept. 3.  
 Switch device, Annunciating. J. E. Lewis. 1,740,107; Dec. 17.  
 Switch device for alarm circuits. M. J. Cawley. 1,707,784; Apr. 2.  
 Switch device for the production of luminous signs. M. Haase. 1,726,348; Aug. 27.  
 Switch device for vehicle direction signals. F. C. McElroy. 1,716,595; June 11.  
 Switch for annunciator systems, Selector. A. Sanchez. 1,735,184; Nov. 12.  
 Switch for automobile signaling apparatus. C. J. Diehl. 1,723,845; Aug. 6.  
 Switch for automobile signals, Electric. D. Clerico. 1,696,902; Jan. 1.  
 Switch for automobile signals, Interlocking and tripping. O. J. Simler. 1,733,401; Dec. 3.  
 Switch for controlling the lighting circuits of cinematograph apparatus. H. Kucharski and M. Wieske. 1,725,284; Aug. 20.  
 Switch for electrical appliances. C. L. Cameron. 1,703,988; Mar. 5.  
 Switch for electrically-heated hand tools. E. Eaton. 1,726,428; Aug. 27.  
 Switch for high-voltage aerial conductors, Separating. H. Schöller. 1,715,391; June 4.  
 Switch for hoists, Limit. H. Geiger. and G. Baust. 1,699,785; Jan. 22.  
 Switch for potheads. F. F. Brand. 1,706,140; Mar. 19.  
 Switch for power drills. F. E. Farley. 1,712,261; May 7.  
 Switch for synchronous motors, Starting. C. T. Hibbard. 1,731,462; Oct. 15.  
 Switch for systems of automotive safety signaling. G. W. Frost. 1,737,229; Nov. 26.  
 Switch for the product of rolling mills, Electrically-operated. F. B. Crosby. Re17,410; Aug. 20.  
 Switch for vehicle doors, Safety. A. G. Demand. 1,736,189; Nov. 19.  
 Switch frame, High-tension. J. B. Trescott. 1,725,228; Aug. 20.  
 Switch heater. E. B. Keim. 1,707,016; Mar. 26.  
 Switch in particular for high-speed suspension railways. F. Kruckenberger, and C. Stedefeld. 1,699,594; Jan. 22.  
 Switch inclosure. A. P. Ball. 1,706,134; Mar. 19.  
 Switch interlock device. J. F. Burns. 1,732,181; Oct. 15.  
 Switch lock. C. Christensen. 1,720,818; July 16.  
 Switch lock. C. B. Coates. 1,724,907; Aug. 20.  
 Switch lock. C. C. Mitchell. 1,714,274; May 21.  
 Switch lock, Ignition-. F. W. Andrew. 1,710,912; Apr. 30.  
 Switch-locking device for railroads. J. E. Stephenson. 1,710,668; Apr. 23.  
 Switch machines, Control means for. W. W. Wenzholz. 1,742,113; Dec. 31.  
 Switch means. H. I. Morris. 1,725,963; Aug. 27.  
 Switch mechanism. W. J. Andres. 1,702,396; Feb. 19.  
 Switch mechanism. V. L. Bell. 1,700,875; Feb. 5.  
 Switch mechanism. J. M. Brown. 1,729,864; Oct. 1.  
 Switch mechanism. J. M. Brown. 1,730,875; Oct. 8.  
 Switch mechanism. A. W. Burks. 1,710,859; Apr. 30.  
 Switch mechanism. D. R. Davies. 1,700,884; Feb. 5.  
 Switch mechanism. F. E. Freers. 1,740,977; Dec. 24.  
 Switch mechanism. O. S. Hershey. 1,730,426; Oct. 8.  
 Switch mechanism. A. Müller. 1,715,716; June 4.  
 Switch mechanism. A. Rawling. 1,699,753; Jan. 22.  
 Switch mechanism. E. A. Robertson. 1,722,709; July 30.  
 Switch mechanism. H. Sengbusch. 1,737,807; Dec. 3.  
 Switch mechanism. C. Vogel. 1,705,692; Mar. 19.  
 Switch mechanism. G. O. Watson. 1,722,165; July 23.  
 Switch mechanism, Alarm. M. Bonnell. 1,738,508; Dec. 3.  
 Switch mechanism, Circuit-controlling. O. N. Tevander. 1,732,344; Oct. 22.  
 Switch mechanism, Door-lock-controlled. G. H. Hart. 1,724,930; Aug. 20.  
 Switch mechanism, Electric. T. Bocek. 1,711,770; May 7.  
 Switch mechanism, Electric. C. A. Fox. 1,734,668; Nov. 5.  
 Switch mechanism, Electric. G. A. Knaak. 1,731,580; Oct. 15.  
 Switch mechanism, Electric. L. J. Weber. 1,742,109; Dec. 31.  
 Switch mechanism, Flame-proof. C. B. Coates. 1,731,706; Oct. 15.  
 Switch mechanism for electrically-operated musical instruments. B. E. Mills. 1,727,127; Sept. 3.  
 Switch mechanism for elevators, Leveling car-. E. L. Gale, jr. 1,717,505; June 18.  
 Switch mechanism for testing transformers. A. Johansen. 1,733,601; Oct. 29.  
 Switch mechanism, High-tension. M. M. Samuels. 1,711,747; May 7.  
 Switch mechanism, Service-. A. B. Rypinski. 1,726,277; Aug. 27.  
 Switch mounting. O. J. Moehler. 1,701,725; Feb. 12.  
 Switch mounting, Universal. H. J. Murray. 1,719,778; July 2.  
 Switch operating and locking device. L. H. Thullen. 1,712,856; May 14.  
 Switch-operating apparatus, Railway-. J. S. Hobson. 1,708,139; Apr. 9.  
 Switch-operating apparatus, Railway-. E. G. Little. 1,709,859; Apr. 23.  
 Switch-operating apparatus, Railway-. W. C. McWhirter. 1,716,787; June 11.  
 Switch-operating apparatus, Railway. T. J. O'Meara. 1,711,060; Apr. 30.  
 Switch-operating device. C. J. Stevens. 1,699,409; Jan. 15.  
 Switch-operating device, Electromagnetic railroad-. A. C. J. Guénee. 1,735,753; Nov. 12.  
 Switch-operating means. V. R. Despard and H. C. R. Popp. 1,711,521; May 7.



- Switch-operating mechanism. M. Kaminsky. 1,721,222; July 16.
- Switch-operating mechanism. R. H. Olley. 1,726,964; Sept. 3.
- Switch-operating mechanism. L. S. Walle. 1,723,103; Aug. 6.
- Switch-operating mechanism. J. D. Wood. 1,729,757; Oct. 1.
- Switch-operating mechanism, Automatic. C. M. Osterheld. 1,704,627; Mar. 5.
- Switch-operating mechanism, Electric. C. F. Schwenker. 1,721,417; July 16.
- Switch-operating mechanism, Electric. J. D. Wood. 1,729,756; Oct. 1.
- Switch-operating mechanism, Railway. C. Thorn and W. C. McWhirter. 1,732,957; Oct. 22.
- Switch operator, Automatic. A. Stirnweis, jr. 1,736,676; Nov. 19.
- Switch operator, Automatic. L. W. Van Buskirk. 1,708,245; Apr. 9.
- Switch plate. N. Chesler. 1,715,222; May 28.
- Switch plate. R. A. Klock. 1,701,781; Feb. 12.
- Switch plug, Safety. J. Goergl. 1,716,041; June 4.
- Switch-point protector. I. J. Kilburn. 1,701,890; Feb. 12.
- Switch-point protector. E. R. Packer. 1,716,503; June 11.
- Switch stand. J. M. Hoffer. 1,712,995; May 14.
- Switch stand. L. R. Shaffer. 1,732,285; Oct. 22.
- Switch stand. L. R. Shaffer. 1,739,869; Dec. 17.
- Switch-stand lock. L. R. Shaffer. 1,739,868; Dec. 17.
- Switch structure. J. Adams. 1,719,742; July 2.
- Switch structure. E. M. Soreng. 1,715,014-15; May 28.
- Switch structure, Safety. J. F. MacWilliams. 1,736,452; Nov. 19.
- Switch structure, Treadle. P. R. Forman. 1,739,961; Dec. 17.
- Switch system, Lock-controlled. H. Schwarze and F. M. Holden. 1,717,414; June 18.
- Switch-throwing device. T. A. Gerlach. 1,731,002; Oct. 8.
- Switch truck panel. J. Gordon. 1,706,114; Mar. 19.
- Switching apparatus. L. T. Barnes. 1,731,808; Oct. 15.
- Switching apparatus for engine-driven compressors, Stop. F. Ackerman. 1,723,996; Aug. 13.
- Switching apparatus, Motor-protective. 1,713,202; May 14.
- Switching device, Electrically operated and controlled railway. E. S. Olmsted. 1,706,037; Mar. 19.
- Switching equipment, Automatic. R. E. Bear. 1,714,938; May 28.
- Switching means, Electrical. J. Sachs. 1,736,369; Nov. 19.
- Switching mechanism. K. Böhme and K. Giese. 1,728,779; Sept. 17.
- Switching mechanism. J. Erickson. 1,698,126; Jan. 8.
- Switching mechanism, Adjustable. H. W. Vickery. 1,701,399; Feb. 5.
- Switching mechanism, Periodic. H. W. Vickery. 1,701,398; Feb. 5.
- Switching station, High-potential. R. M. Spurck. 1,733,077; Oct. 22.
- Switching system. P. Kannengiesser and E. Gasiorowski. 1,713,181; May 14.
- Switching system. R. A. Waite and F. L. Morris. 1,711,625; May 7.
- Switching system, Automatic. A. E. Anderson and H. Baney. 1,731,918; Oct. 15.
- Switching system for suspended railways. F. E. Felts. 1,696,946; Jan. 1.
- Switches and other mechanism, Operating electric. A. H. Brauer. 1,698,427; Jan. 8.
- Switches and receptacles, Mounting for. H. Hubbell. 1,705,014; Mar. 12.
- Switches, Apparatus for effecting a repeated closing of automatic. F. Schmidlin. 1,707,236; Apr. 2.
- Switches, Mechanism for controlling railway. L. Wyant. 1,700,011; Jan. 22.
- Swivel. W. V. Seifert. 1,701,898; Feb. 12.
- Swivel and rigging plate, Combined. R. T. Ferry. 1,714,768; May 28.
- Swivel connection. A. Guest. 1,712,666; May 14.
- Swivel connection. C. W. Lynch. 1,698,162; Jan. 8.
- Swivel coupling. J. L. Battenfeld. 1,712,130; May 7.
- Swivel for light and drop cords and the like. E. W. Baldwin. 1,720,619; July 9.
- Swivel, Hydraulic. H. M. Harris. 1,737,793; Dec. 3.
- Swivel joint. A. Bostroem. 1,697,710; Jan. 1.
- Swivel joint. H. E. Cohen. 1,735,637; Nov. 12.
- Swivel joint. L. C. Doane. 1,703,482; Feb. 26.
- Swivel joint. R. R. Glidden. 1,712,301; May 7.
- Swiveling and dipping headlights of automotive vehicles, Device for. J. G. Thomas. 1,705,427; Mar. 12.
- Synchronism in radio movies. C. F. Jenkins. Re17,221; Feb. 19.
- Synchronizing apparatus. L. J. Simons. 1,718,387; June 25.
- Synchronizing device. J. Vopel. 1,708,642; Apr. 9.
- Synchronizing method and arrangement therefor. F. Schroeter. 1,716,903; June 11.
- Synchronizing of frequency changers, Automatic. R. D. Evans. 1,732,746; Oct. 22.
- Synchronizing revolving bodies. A. F. Schwendner. 1,716,154; June 4.
- Synchronizing system. F. W. Meyer. 1,718,477; June 25.
- Synchronizing system. P. Thomas. 1,732,734; Oct. 22.
- Synchronous inductor frequency changer. F. W. Merrill. 1,725,662; Aug. 20.
- Synchronous motor. H. J. Blakeslee. 1,709,055; Apr. 16.
- Synchronous motor. C. Fayer. 1,717,500; June 18.
- Synchronous motor. V. A. Fynn. 1,704,828; Mar. 12.
- Synchronous motor. J. K. Kostko. 1,697,362; Jan. 1.
- Synchronous motor, Self-starting. P. P. Horni. 1,720,217; July 9.
- Synchronous motor, Slow-speed. M. C. Spencer. 1,708,334; Apr. 9.
- Synchronous phase converter. K. Von Kandó. 1,724,382; Aug. 13.
- Synthetic material adapted to the plastic art. C. A. Nash, J. P. Trickey, and C. S. Miner. 1,736,047; Nov. 19.
- Synthetic production of bodies from their component gases. R. S. Richardson. 1,704,214; Mar. 5.
- Synthetic timbre effects, Producing. M. L. Severy. 1,733,630; Oct. 29.
- Syringe. C. A. Ballreich. 1,720,198; July 9.
- Syringe. C. E. Bremiller. 1,725,177; Aug. 20.
- Syringe. E. P. Cressler. 1,712,070; May 7.
- Syringe. E. P. Cressler. 1,728,259; Sept. 17.
- Syringe. R. L. Cross. 1,733,449; Oct. 29.
- Syringe. L. B. De Spain. 1,716,539; June 11.
- Syringe. W. Friedman. 1,719,428; July 2.
- Syringe. W. Friedman. 1,733,189; Oct. 29.
- Syringe. F. W. Hames. 1,728,542; Sept. 17.
- Syringe. W. A. Hovis. 1,703,238; Feb. 26.
- Syringe. L. F. Novak. 1,730,378; Oct. 8.
- Syringe. J. H. Sheets. 1,707,880; Apr. 2.
- Syringe. A. E. Smith. 1,718,592; June 25.
- Syringe. A. E. Smith. 1,718,598; June 25.
- Syringe ampul. A. E. Smith. 1,718,597; June 25.
- Syringe and cabinet unit, Gravity-flow sanitary. A. O'Rourke, Jr., and J. Sprekelmeyer. 1,732,528; Oct. 22.
- Syringe and cartridge therefor, Hypodermic. J. MacGregor. 1,715,771; June 4.
- Syringe and like article. L. Elisele. 1,717,840; June 18.
- Syringe, Automatic. B. E. Beese. 1,736,573; Nov. 19.
- Syringe, Automatic. A. E. Smith. 1,718,596; June 25.
- Syringe cartridge. H. S. Cook. 1,704,936; Mar. 12.
- Syringe cartridge. R. C. Rehm. 1,704,924; Mar. 12.
- Syringe construction. A. E. Smith. 1,718,599; June 25.
- Syringe construction. A. E. Smith. 1,718,602; June 25.
- Syringe, Dental. A. E. Smith. 1,718,601; June 25.
- Syringe device. A. E. Smith. 1,718,600; June 25.
- Syringe, Hypodermic. H. K. Brown. 1,704,678; Mar. 5.
- Syringe, Hypodermic. H. K. Brown. 1,728,261; Sept. 17.
- Syringe, Hypodermic. H. K. Brown. 1,734,154; Nov. 5.
- Syringe, Hypodermic. E. K. Cressler. 1,712,069; May 7.
- Syringe, Hypodermic. F. J. Hofschneider. 1,705,525; Mar. 19.
- Syringe, Hypodermic. I. Kulik. 1,712,084; May 7.
- Syringe, Hypodermic. I. Kulik. 1,738,146; Dec. 3.
- Syringe, Hypodermic. J. MacGregor. 1,723,362; Aug. 6.
- Syringe, Hypodermic. J. MacGregor. 1,737,857; Dec. 3.
- Syringe, Hypodermic. A. E. Smith. 1,718,591; June 25.
- Syringe, Hypodermic. A. E. Smith. 1,718,594; June 25.
- Syringe, Hypodermic. A. E. Smith. 1,718,604-5; June 25.
- Syringe, Hypodermic. F. W. Steuer. 1,709,637; Apr. 16.
- Syringe, Hypodermic. F. W. Steuer. 1,709,691; Apr. 16.
- Syringe, Manual. P. M. Miller. 1,732,337; Oct. 22.
- Syringe, Medical. E. Sandig. 1,730,983; Oct. 8.
- Syringe, Pocket. S. Neeb. 1,738,961; Dec. 10.
- Syringe, Sanitary. S. Porter. 1,738,152; Dec. 3.
- Syringe, Scalp. R. H. Richardson. 1,722,706; July 30.
- Syringe, Tracheal-swab. G. A. Jeffreys. 1,711,352; Apr. 30.
- Syringe, Vaginal. F. E. Parkler. Re17,319; June 4.
- Syringe, Vaginal. F. E. Parkler. 1,718,915; June 25.
- Syringes, Bulb for. M. S. Lower. 1,728,161; Sept. 10.
- Syrups, Preparing fruit. L. Kunz. 1,735,118; Nov. 12.
- Table: See—
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|-------------------------|------------------------|
| Adjustable table.       | Hot-water table.       |
| Adjustment table.       | Insulated steam table. |
| Automobile table.       | Invalid's table.       |
| Bedside table.          | Ironing-board table.   |
| Bed table.              | Ironing table.         |
| Cabinet camp table.     | Lunch table.           |
| Camp table.             | Machine-tool table.    |
| Canine operating table. | Operating table.       |
| Chiropactic table.      | Pocketed table.        |
| Coffee table.           | Projector table.       |
| Concentrating table.    | Sand-blast table.      |
| Conveyer table.         | Saw table.             |
| Dipping table.          | Score table.           |
| Drill-press table.      | Seating table.         |
| Extension-leaf table.   | Separation table.      |
| Foldable table.         | Service table.         |
| Folding dressing table. | Serving table.         |
| Folding table.          | Sorting table.         |
| Food-dispensing table.  | Steam table.           |
| Fracture table.         | Surgical table.        |
| Game table.             | Transfer table.        |
| Glass-cutting table.    | Trimming table.        |
| Glass-supporting table. | Utility table.         |
| Grain-door table.       | Vibrator table.        |
| Grinding table.         | Work table.            |
| Hot-top table.          |                        |
- Table. C. R. Alexander. 1,719,039; July 2.
- Table. K. G. Anderson. 1,721,327; July 16.
- Table. J. Avrutik. 1,741,904; Dec. 31.
- Table. L. G. Copeman. 1,701,529; Feb. 12.
- Table. E. E. Ekvall. Des. 78,456-7; May 7.
- Table. E. E. Ekvall. Des. 78,510; May 14.
- Table. H. C. Everts. 1,726,144; Aug. 27.
- Table. H. H. Feldman. 1,735,535; Nov. 12.



- Table. H. O. Girard. Des. 80,118; Dec. 17.  
 Table. B. F. Goodrich. 1,720,123; July 9.  
 Table. M. S. Karpen. 1,714,172; May 21.  
 Table. J. F. Krema. 1,729,221; Sept. 24.  
 Table. L. J. Muller. 1,701,930; Feb. 12.  
 Table. E. C. Phillips. 1,741,779; Dec. 31.  
 Table. H. Picard and J. Simard. 1,725,017; Aug. 20.  
 Table. H. Rowley. 1,714,244; May 21.  
 Table. A. Shuben. Des. 78,842; June 25.  
 Table. L. J. Viehmann. 1,724,811; Aug. 13.  
 Table and chair, Foldable. A. Hodinka. 1,736,531; Nov. 19.  
 Table and ironing board, Combination. H. J. Buck 1,703,187; Feb. 26.  
 Table and ironing board, Combination. A. Frazzano. 1,719,427; July 2.  
 Table and ironing board, Combination. W. A. Melrose. 1,710,179; Apr. 23.  
 Table and ironing board, Combination wall. T. B. Chandler. 1,741,094; Dec. 24.  
 Table and lamp, Combination reading. F. R. Meginniss. 79,562; Oct. 8.  
 Table and magazine rack, Combination end. F. Schimmel. 1,725,423; Aug. 20.  
 Table and seat, Collapsible. J. B. Clarke. 1,728,723; Sept. 17.  
 Table and sewing stand, Combined. W. C. H. Cushman. Des. 78,270; Apr. 16.  
 Table attachment. J. G. McVey. 1,715,715; June 4.  
 Tablecloth or similar article. J. Pennington. Des. 77,561; Jan. 22.  
 Table concentrator. A. H. Stebbins. 1,720,862; July 16.  
 Table construction, Folding-. R. S. Corlett. 1,727,005; Sept. 3.  
 Table construction, Folding-. M. L. Gillespie. 1,709,210; Apr. 16.  
 Table cover or similar article. H. W. Dieck. Des. 79,353; Sept. 10.  
 Table cover or similar article. H. W. Dieck. Des. 79,509; Oct. 1.  
 Table cover or the like, Embroidered lace-cloth. S. N. Mallouk. Des. 79,196-7; Aug. 13.  
 Table, dinner, or tea wagon, and the like, Folding. F. W. Plant. 1,733,029; Oct. 22.  
 Table-driving mechanism. S. W. Bath. 1,711,079; Apr. 30.  
 Table-driving mechanism. S. W. Bath. 1,724,635; Aug. 13.  
 Table, fern and lamp stand, Combination smoking. C. W. Caldwell. Des. 78,005; Mar. 19.  
 Table for cross-roll mills, Conveyor. L. A. Woodard. 1,738,340; Dec. 3.  
 Table for hospital beds. B. McIntosh. 1,719,614; July 2.  
 Table for masticating hogs, Yielding anvil-knife. C. A. Huffman. 1,735,823; Nov. 12.  
 Table for presses, Feed. J. E. Bennet. 1,727,856; Sept. 10.  
 Table for radio receiving sets or the like. F. Schwartz. Des. 77,654; Feb. 5.  
 Table gauge, Saw-. R. O. Tompkins. 1,737,131; Nov. 26.  
 Table or analogous article. N. E. Goodrich. Des. 79,950; Nov. 19.  
 Table or similar article, Folding. M. Amaducci. 1,697,550; Jan. 1.  
 Table or similar article, Morgue. J. R. Emmert. Des. 79,586; Oct. 15.  
 Table pad. M. D. K. Bremner. 1,713,072; May 14.  
 Table pad. O. Winter. 1,712,373; May 7.  
 Table slide, Extension. H. H. Drew. 1,720,320; July 9.  
 Table standard. B. Hasenstab. Des. 79,027; July 23.  
 Table standard. G. E. Villaret. Des. 78,134-5; Mar. 26.  
 Table standard. G. E. Villaret. Des. 78,672-4; May 28.  
 Table structure, Convertible. B. J. Brown. 1,727,196; Sept. 3.  
 Table surface, Game-. M. Mellen. 1,708,318; Apr. 9.  
 Table top. E. E. Ekvall. Des. 80,024; Dec. 3.  
 Table top. J. S. Konop. 1,710,361; Apr. 23.  
 Table-top construction. L. G. Copeman. 1,700,155; Jan. 29.  
 Table utensil. C. F. Pasal. 1,699,248; Jan. 15.  
 Tableware washer. W. T. Septant. 1,715,100; May 28.  
 Table with enameled top, Folding. H. Türk. 1,697,094; Jan. 1.  
 Tables, Attachment for pool. J. C. F. Horstmann 1,703,448; Feb. 26.  
 Tables, Fine adjustment and alignment for approach. A. Goodfellow. 1,723,505; Aug. 6.  
 Tables or the like, Combined base and pedestal for. P. C. Goble. Des. 78,015; Mar. 19.  
 Tablet, Desk. H. C. Currier. 1,738,139; Dec. 3.  
 Tablet machine. K. B. John, C. W. Coslow, and C. J. Schwindt. 1,741,312; Dec. 31.  
 Tabulating and like machines, Operating mechanism for. W. W. Lasker. 1,730,513; Oct. 8.  
 Tabulating attachment for keyboard machines. L. H. Morse and C. Chisholm. 1,702,611; Feb. 19.  
 Tabulating machines, Automatic stop for. R. E. Paris. 1,712,901; May 14.  
 Tabulator for typewriters, Decimal. C. Kupfer. 1,740,926; Dec. 24.  
 Tabulator for typewriting machines, Key-set. C. Gabrielson. 1,737,306; Nov. 26.  
 Tabulator, Rotary alphabet-printing. F. M. Carroll. 1,726,539; Sept. 3.  
 Tachytelegraphic machine. E. Belin. 1,718,024; June 18.  
 Tack button. W. T. Abel. 1,707,592; Apr. 2.  
 Tack driver. S. Tatar. 1,736,636; Nov. 19.  
 Tack-handling mechanism. G. Goddu and F. L. Mackenzie. 1,722,287; July 30.  
 Tack-supplying apparatus for nailing machines. C. M. Bagshaw. 1,698,903; Jan. 15.  
 Tackle block. D. E. Wright. 1,733,640; Oct. 29.  
 Tackle block. W. Wright. 1,713,586-7; May 21.  
 Tackle, Self-contained automatic. A. P. Schat. 1,714,452; May 21.  
 Tackle to support scaffolds or similar devices. M. A. Serra y Pérez. 1,736,723; Nov. 19.  
 Tag. R. Lowy. 1,723,873; Aug. 6.  
 Tag. E. O. Randall. 1,699,311; Jan. 15.  
 Tag and attaching tool therefor, Animal. C. R. Boshart. 1,704,999; Mar. 12.  
 Tag, Automobile. G. A. Brooks. 1,741,610; Dec. 31.  
 Tag, Cable-identification. E. Williams. 1,719,036; July 2.  
 Tag, Ear. A. H. Berntson and C. J. Zimmerman. 1,704,423; Mar. 5.  
 Tag, Identification. F. H. Klein. 1,733,805; Oct. 29.  
 Tag, Laundry. C. W. Canine. 1,701,770; Feb. 12.  
 Tag, Laundry-marking. A. F. Hanney. 1,704,705; Mar. 12.  
 Tag, Laundry marking. C. E. Waream. 1,713,633; May 21.  
 Tag, Shipping. C. A. Flood. 1,717,443; June 18.  
 Tag, Shipping. I. L. Young. 1,701,601; Feb. 12.  
 Tag, Stocking. J. E. Fitzgibbon. 1,718,919; June 25.  
 Tag-supporting strip, Price-. A. B. McIntyre. 1,736,123; Nov. 19.  
 Tagger. F. C. Sargent and R. W. Armstrong. 1,702,319; Feb. 19.  
 Tags and like articles and mechanism therefor, Feeding. G. W. Henry, jr. 1,735,643; Nov. 12.  
 Tail gate for dump trucks, Double-acting. C. L. Nein. 1,735,408; Nov. 12.  
 Tailor's pin. P. Torelli. 1,712,531; May 14.  
 Tailpiece. A. D. Grover. 1,721,153; July 16.  
 Take-out mechanism. H. W. Ingle. 1,733,987; Oct. 29.  
 Take-up mechanism. J. A. Firsching. 1,719,005; July 2.  
 Take-up or tensioning device. J. Clayton. 1,705,899; Mar. 19.  
 Taking up of play, Automatic. L. Saives. 1,733,240; Oct. 29.  
 Talcum-powder can. J. M. Hothersall. 1,705,714; Mar. 19.  
 Talking device for dolls, etc. W. T. Hoofnagle. 1,727,645; Sept. 10.  
 Talking machine. A. Bornand. 1,730,055; Oct. 1.  
 Talking machine. H. L. Cedeño. 1,722,897; July 30.  
 Talking machine. A. C. Hansen. 1,734,087; Nov. 5.  
 Talking machine. H. Küchenmeister. 1,742,085; Dec. 31.  
 Talking machine. F. Samuel. 1,732,067; Oct. 15.  
 Talking machine and the like. F. A. Mitchell. 1,722,105; July 23.  
 Talking-machine drive. I. L. Bancalari. 1,738,417; Dec. 3.  
 Talking machine, Multiple-disk-type. E. O. Yeager and R. H. York. 1,727,263; Sept. 3.  
 Talking machine, Portable. A. Midence. 1,707,868; Apr. 2.  
 Talking machines, Electric driving device for. C. Gleerup-Moller. 1,702,342; Feb. 19.  
 Talking machines, Repeating mechanism for. S. B. Battey. 1,735,311; Nov. 12.  
 Talking machines, Sound box for. H. Biller. 1,725,327; Aug. 20.  
 Talking machines, Stop mechanism for. G. B. Hodgins. 1,723,170; Aug. 6.  
 Talking machines, Winding device for. H. L. T. Buckle. 1,713,022; May 14.  
 Tamale inn. S. C. Wilhite. Des. 78,424; Apr. 30.  
 Tamper. J. F. MacDougald. 1,704,202; Mar. 5.  
 Tamper or like impact tool. C. Jackson. 1,706,575; Mar. 26.  
 Tamper or like impact tool. C. Jackson. 1,716,638; June 11.  
 Tamping and like implement. C. Jackson. 1,741,240; Dec. 31.  
 Tamping device. E. E. Peterson. 1,731,023; Oct. 8.  
 Tamping machine. J. F. Brennan and C. W. Kreher. 1,714,345; May 21.  
 Tamping machine. P. F. Connelly. 1,700,194; Jan. 29.  
 Tamping machine. P. F. Connelly. 1,740,538; Dec. 24.  
 Tamping machine. J. J. Higdon. 1,723,856; Aug. 6.  
 Tamping machine. C. Jackson. 1,715,131; May 28.  
 Tamping machine. J. Laughlin, sr., and L. M. Swisdal. 1,706,121; Mar. 19.  
 Tamping machine and method, Concrete-. E. J. Schuh. 1,702,798; Feb. 19.  
 Tampon, Surgical. G. S. Peterkin. 1,725,996; Aug. 27.  
 Tandem attachment for motor cycles. C. A. Persons. 1,709,533; Apr. 16.  
 Tandem attachment for motor vehicles. H. Mesinger. 1,717,056; June 11.  
 Tangent for meters, Adjustable. J. R. Armstrong. 1,723,397; Aug. 6.  
 Tangential separator. M. G. Martling. 1,698,101; Jan. 8.  
 Tank. See—  
     Brine tank. Electroplating tank.  
     Car tank. Expansion tank.  
     Cleaning tank. Flush tank.  
     Compartment tank. Fuel tank.  
     Cooling tank. Glass-working tank.  
     Dispensing tank. Insulated tank.



- Tank: See—  
 Liquid-feed tank.  
 Measuring tank.  
 Mixing tank.  
 Rectifier tank.  
 Reducing tank.  
 Refrigerant tank.  
 Self-cleaning tank.  
 Separator tank.  
 Tank. C. A. Glass. 1,700,887; Feb. 5.  
 Tank. R. H. Martinez. 1,721,401; July 16.  
 Tank. J. A. Stough. 1,732,779; Oct. 22.  
 Tank. F. L. Wilcox. 1,736,842; Nov. 26.  
 Tank and filling valve, Sand-blast. R. H. Moore. 1,706,737; Mar. 26.  
 Tank and radiant fire arrangement, Water. G. F. Schwartz. 1,706,416; Mar. 26.  
 Tank and sack for harvesting machines. J. S. Thurman. 1,703,503; Feb. 26.  
 Tank and supporting base, Combined sheet-metal. E. A. Robertson. 1,701,729; Feb. 12.  
 Tank-can discharge. C. H. Folmsbee. 1,699,527; Jan. 22.  
 Tank cap. H. Ford. 1,724,346; Aug. 13.  
 Tank cap and lock. E. V. Allman. 1,716,202; June 4.  
 Tank, cap, Gas-. H. E. Tate, J. E. King, and H. Barber. 1,732,423; Oct. 22.  
 Tank cap, Gasoline-. J. J. Mueller. 1,734,527; Nov. 5.  
 Tank-cap lock. F. Freedman. 1,702,205; Feb. 12.  
 Tank cap, Pressure-. H. B. Brandt. 1,698,690; Jan. 8.  
 Tank-charging appliance. C. Huntemüller. 1,716,059; June 4.  
 Tank construction. R. J. Gazelle. 1,737,712; Dec. 3.  
 Tank construction. G. Raymond. 1,738,483; Dec. 3.  
 Tank-discharge mechanism, Water-. S. Shafer, jr. 1,724,427; Aug. 13.  
 Tank distributor. N. V. Hendricks. 1,725,581; Aug. 20.  
 Tank fill box. J. B. Holston. 1,738,069; Dec. 3.  
 Tank filler pipe and closure, Gasoline-. L. Q. Pickering. 1,740,522; Dec. 24.  
 Tank for chromium plating baths. L. D. Jensen. 1,709,022; Apr. 16.  
 Tank for cigar lighters, Filling. L. S. Bauman. Des. 78,606; May 28.  
 Tank for concrete mixers, Water. G. Jaeger. 1,710,876; Apr. 30.  
 Tank for liquid fuels, Vacuum. O. S. Ruud. 1,717,853; June 18.  
 Tank for liquids, Truck. C. H. Scott. 1,705,649; Mar. 19.  
 Tank for motor vehicles, Auxiliary. F. Swoyer. 1,739,333; Dec. 10.  
 Tank for volatile liquids, Storage. H. C. Boardman. 1,716,947; June 11.  
 Tank gauge. J. B. Hamblen. 1,726,296; Aug. 27.  
 Tank gauge, Oil-storage. B. C. Rinehart. 1,741,792; Dec. 31.  
 Tank heater. O. D. Dibbern. 1,700,285; Jan. 29.  
 Tank heater. R. E. McFarland. 1,736,658; Nov. 19.  
 Tank heater, Car-. J. W. Steinmeyer and V. Willoughby. 1,706,084; Mar. 19.  
 Tank-level signal. E. E. Plant. 1,704,761; Mar. 12.  
 Tank lining. G. Lux. 1,730,856; Oct. 8.  
 Tank lining for electric switches. A. C. Kelle. 1,719,269; July 2.  
 Tank mechanism, Dispensing-. N. A. Carlson. 1,714,296; May 21.  
 Tank-sealing device. E. G. Friedman. 1,741,104; Dec. 24.  
 Tank-securing means. J. Beyer. 1,727,695; Sept. 10.  
 Tank securing means. C. W. Mitzenius. 1,706,071; Mar. 19.  
 Tank structure, Dispensing-. L. J. Thompson. 1,718,393; June 25.  
 Tank system, Dosing-. H. Beddoes. 1,715,185; May 28.  
 Tank vent. J. B. Holtson. 1,719,932; July 9.  
 Tanks. Antifraud means for. C. F. Bertschinger. 1,705,633; Mar. 19.  
 Tanks, Attachment for. J. R. Middleton. 1,739,852; Dec. 17.  
 Tanks, Automatic water-discharge device for oil. J. H. Smith. 1,722,160; July 23.  
 Tanks, Method and apparatus for constructing cylindrical. C. C. Pinckney. 1,740,033; Dec. 17.  
 Tanning. F. S. Low. 1,723,568; Aug. 6.  
 Tanning. A. Rogers and R. Y. H. Lee. 1,722,594; July 30.  
 Tanning agent. H. Schütte. 1,727,135; Sept. 3.  
 Tanning agent, Water-soluble mineral. G. Kränzlein, A. Voss, and F. Brunnträger. 1,727,719; Sept. 10.  
 Tanning and finishing skins. M. Laskin. 1,708,020; Apr. 9.  
 Tanning material. O. Spengler and A. Thurm. 1,698,659; Jan. 8.  
 Tanning material and making same, Chrome. C. D. Marlatt and W. H. Dickson. 1,698,505; Jan. 8.  
 Tanning material free from mineral acid, Manufacture of synthetic. J. Schäfer. 1,706,325; Mar. 19.  
 Tap. W. F. Dalzen. 1,718,536; June 25.  
 Tap. L. Sax. 1,708,802; Apr. 9.  
 Tap changer. L. H. Hill. 1,725,078; Aug. 20.  
 Tap-changer mechanism. K. A. Oplinger and L. H. Hill. 1,736,459; Nov. 19.  
 Tap-changing system. W. B. Farley. 1,705,725; Mar. 19.  
 Tap-changing system. L. H. Hill. 1,709,667; Apr. 16.  
 Tap for cutting square and acme threads. E. A. Walker and H. M. Allison. 1,725,233; Aug. 20.  
 Tap for washstands for cold and hot water and for mixing them. J. A. Lemetals. 1,732,097; Oct. 15.  
 Tap, more particularly applicable to oil drums. W. Tryhorn. 1,729,914; Oct. 1.  
 Tape. M. O. Rehfuss. 1,697,660; Jan. 1.  
 Tape and plumb-bob target. E. I. MacEachron. 1,705,871; Mar. 19.  
 Tape-applying attachment for fastener-setting machines and severing bias tape. H. A. Evans and G. W. Jacques. 1,711,561; May 7.  
 Tape-applying machine. F. S. Glines. 1,710,415; Apr. 23.  
 Tape-cutting machine. V. E. Green. 1,733,796; Oct. 29.  
 Tape dispenser, Gummed-. F. W. Huempfer. 1,708,725; Apr. 9.  
 Tape dispensing and printing device. L. Sampson. 1,105,588; Mar. 19.  
 Tape-dispensing machine, Gummed-. W. A. Uttz, sr. 1,731,185; Oct. 8.  
 Tape-feeding machine. R. M. Brooks. 1,726,883; Sept. 3.  
 Tape for stringers for separable fasteners. W. C. French. 1,734,165; Nov. 5.  
 Tape, Garment-fastener. L. Roseman. 1,733,558; Oct. 29.  
 Tape guide. J. O. Fasano. 1,714,860; May 28.  
 Tape-holding apparatus. M. Zusmer. 1,731,963; Oct. 15.  
 Tape, Masking. A. J. Krug. 1,726,744; Sept. 3.  
 Tape, Measuring. A. Langsner. 1,723,739; Aug. 6.  
 Tape, Measuring. A. Langsner. 1,740,947; Dec. 24.  
 Tape moistener. A. H. Reiber. 1,737,805; Dec. 3.  
 Tape, Solder. L. Day. 1,698,360; Jan. 8.  
 Taper attachment. P. G. Quedens. 1,698,319; Jan. 8.  
 Taper hobs, Apparatus for relieving. E. C. Head. 1,734,254; Nov. 5.  
 Taper turner. G. A. Perry. 1,731,724; Oct. 15.  
 Tapestry fabric and making the same. B. Holmes. 1,736,532; Nov. 19.  
 Taping machine, Carton-. W. L. Rogers. 1,701,508; Feb. 12.  
 Taping mechanism and reinforcing material for shoes. P. L. O'Donnell and G. E. Hieber. 1,724,038; Aug. 13.  
 Tappet. R. H. Daisley. 1,726,259; Aug. 27.  
 Tappet. G. Schneider and F. A. Welsmiller. 1,720,353; July 9.  
 Tappet wrench. S. M. Miller. 1,708,147; Apr. 9.  
 Tar, bitumen, creosote, petroleum, heavy oils, and the like, Emulsification of. W. E. Billingham. 1,700,581; Jan. 29.  
 Target. B. M. Harrell. 1,728,541; Sept. 17.  
 Target. P. Neukirchen. 1,709,186; Apr. 16.  
 Target, Bobbing. F. J. Domingo. 1,738,874; Dec. 10.  
 Target carrier. A. D. Caswell. 1,727,272; Sept. 3.  
 Target-practice apparatus. O. Messter. 1,722,935; July 30.  
 Target, Rifle. M. D. Van Auken. 1,723,826; Aug. 6.  
 Target, Surveying. A. N. Klitsch. 1,713,085; May 14.  
 Target, Switch. P. Swanson. 1,731,029; Oct. 8.  
 Target towing and releasing device. W. A. Lamkey. 1,703,400; Feb. 26.  
 Target trap. H. P. Camp. 1,700,880; Feb. 5.  
 Target traps, Electrically-operated releasing and setting mechanism for. H. W. Stempel. 1,716,935; June 11.  
 Tars from their emulsions with water, Recovery of gas. R. R. Ripley and S. C. Schwarz. 1,724,222; Aug. 13.  
 Tarsal support. J. R. Hillery. 1,700,569; Jan. 29.  
 Tassel. G. E. Villaret. Des. 78,063; Mar. 19.  
 Tattooing device, Electric. P. Waters. 1,724,812; Aug. 13.  
 Tautening mechanism for upholstery bands. W. J. Dillon. 1,724,260; Aug. 13.  
 Taxicab control. L. F. Goodspeed. 1,717,602; June 18.  
 Taximeter. C. A. Fausel and H. E. Bauer. 1,718,340; June 25.  
 Taximeter. P. Richert. 1,703,692; Feb. 26.  
 Taximeter apparatus. A. Martinet. 1,729,174; Sept. 24.  
 Taximeters, Driver's tolerance means for. B. C. Palmer. 1,711,246; Apr. 30.  
 Taximeters, Mounting for. P. Richert. 1,714,190; May 21.  
 Tea ball. W. K. Mitchell. 1,723,702; Aug. 6.  
 Teaching arithmetic, Device for. C. W. Wright. 1,728,584; Sept. 17.  
 Teaching golf, Mechanical figure for. J. L. Masplé. 1,703,403; Feb. 26.  
 Teaching mathematics, Apparatus for. I. R. Gardner. 1,730,418; Oct. 8.  
 Teaching mechanism, Piano-. D. Patterson. 1,732,377; Oct. 22.  
 Teaching reading, Apparatus for. F. M. Stader. 1,706,550; Mar. 26.  
 Teakettle. P. H. Ferrier, jr. 1,739,894; Dec. 17.  
 Teakettle handle. E. E. Drumm. 1,732,004; Oct. 15.  
 Teapot. L. H. Fowler. 1,722,696; July 30.  
 Teapot. H. H. Schott. Des. 80,146; Dec. 17.  
 Teapot. J. H. Thompson. 1,736,381; Nov. 19.  
 Teapot or similar article. F. Schmidt. Des. 78,408; Apr. 30.  
 Teapot or similar article of manufacture, Earthenware. W. Lindley. Des. 78,525; May 14.  
 Tearing-strip can. J. M. Young. 1,725,970; Aug. 27.  
 Teat cup. R. L. Hinman. 1,739,483; Dec. 10.  
 Teat cup, Milking-machine. J. Hopkirk and G. W. Gane. 1,699,891; Jan. 22.  
 Teeming ferrous metals. K. V. McCausland. 1,727,514; Sept. 10.  
 Teeth. L. R. B. House. 1,703,484; Feb. 26.  
 Teeth and facings, Lining with foil anchorage openings in artificial. L. H. Sprinkle. 1,735,218; Nov. 12.



- Teeth and making the same, Porcelain. G. Wagner. 1,719,577; July 2.
- Teeth, Artificial. H. J. Goslee. 1,737,715; Dec. 3.
- Teeth, Artificial. F. Maulen, S. Myerson, and G. L. Van Allen. 1,721,080; July 16.
- Teeth, Carding device for artificial. J. H. Moyer. 1,721,526; July 23.
- Teeth, Fastening sets of artificial. H. Estelmann. 1,699,137; Jan. 15.
- Teeth for excavating dippers and the like. W. E. Miley. 1,736,045; Nov. 19.
- Teeth from cast metal, Auxiliary device for the production of the hollow crowns of. W. Kopp. 1,704,006; Mar. 5.
- Teeth, Method of and apparatus for filling. I. Kulik. 1,711,952; May 7.
- Teeth, plate, mold, and making, False. J. S. Donnellan. 1,708,665; Apr. 9.
- Teeth, Process and apparatus for the standardized finishing of interchangeable artificial. A. S. Levy. 1,706,980; Mar. 26.
- Teething device. J. W. Erringer. 1,731,302; Oct. 15.
- Telautograph apparatus. A. N. Van Nostrand. 1,728,023; Sept. 10.
- Telautograph system. A. B. Clark and P. Mertz. 1,722,274; July 30.
- Telautograph system. A. N. Van Nostrand. 1,728,022; Sept. 10.
- Telegram blank, envelope, and delivery sheet, Combined. J. Topacio y Gonzales. 1,698,628; Jan. 8.
- Telegraph alarm system, Carrier. F. G. Gardner. 1,735,041; Nov. 12.
- Telegraph alarm system, Carrier. V. P. Thorp. 1,723,220; Aug. 6.
- Telegraph and telephone system, Wireless. L. de Forest. 1,740,577; Dec. 24.
- Telegraph apparatus, Printing. C. L. and H. L. Krum. 1,738,777; Dec. 10.
- Telegraph, Automatic printing. R. E. M. Pénot. 1,713,003; May 14.
- Telegraph cables, Eliminating disturbances at the ends of submarine. W. Estaugh. 1,730,198; Oct. 1.
- Telegraph decipherer. G. Weinschenker. 1,727,845; Sept. 10.
- Telegraph-monitoring system. D. E. Branson. 1,732,255; Oct. 22.
- Telegraph or like systems, Rotary distributor for use in. H. H. Harrison and S. R. Smith. 1,731,977; Oct. 15.
- Telegraph receiver, Electric. T. J. Berryman. 1,707,041; Mar. 26.
- Telegraph relay and sounder. O. B. Emerson. 1,737,962; Dec. 3.
- Telegraph repeater. D. E. Branson. 1,728,226; Sept. 17.
- Telegraph repeater employing vibrating relays, High-speed. G. C. Cummings. 1,701,100; Feb. 5.
- Telegraph, Student's. O. B. Kirkpatrick. 1,725,145; Aug. 20.
- Telegraph system. J. A. Eyster. 1,722,283; July 30.
- Telegraph system. W. A. Knoop. 1,719,477; July 23.
- Telegraph system. R. B. Shanck. 1,707,997; Apr. 9.
- Telegraph system. R. B. Shanck. 1,732,286; Oct. 22.
- Telegraph system. G. S. Vernam. 1,735,940; Nov. 19.
- Telegraph system. M. H. Woodward. 1,699,418; Jan. 15.
- Telegraph system, One-wire printing. G. S. Hiltz and W. F. Purcell. 1,700,225; Jan. 29.
- Telegraph system for loaded cables, Duplex. A. M. Curtis. 1,724,994; Aug. 20.
- Telegraph system, Printing. F. G. Hallden. 1,721,952; July 23.
- Telegraph system, Printing. G. S. Hiltz and W. F. Purcell. 1,707,521; Apr. 2.
- Telegraph system, Printing. W. A. Knoop. 1,722,050; July 23.
- Telegraph system, Printing. B. S. Swezey. 1,712,528; May 14.
- Telegraph system, Printing. E. F. Watson. 1,703,972; Mar. 5.
- Telegraph system, Selective. L. C. Roberts. 1,700,180; Jan. 29.
- Telegraph system, Submarine. J. J. Gilbert. 1,724,923; Aug. 20.
- Telegraph system, Submarine duplex. J. J. Gilbert. 1,738,292; Dec. 3.
- Telegraph system, Synchronous. G. A. Locke. 1,717,049; June 11.
- Telegraph transmitter, Printing. G. S. Hiltz and W. F. Purcell. 1,713,128; May 14.
- Telegraph type-wheel printers, Selecting mechanism for. E. R. Wheeler and R. F. Dirkes. 1,714,334; May 21.
- Telegraphic and other electrically-operated device. E. O. Symonds. 1,712,739; May 14.
- Telegraphic apparatus for the automatic reception and retransmission of electric signals. F. G. Creed. 1,714,901; May 28.
- Telegraphic recording instrument. C. J. Korndorfer and L. T. Hand. 1,718,742; June 25.
- Telegraphic sending apparatus. J. A. Hult. 1,718,784; June 25.
- Telegraphic signals, Repetition of. C. L. Hamel. 1,712,763; May 14.
- Telegraphic transmission of pictures. R. D. Parker. 1,728,978; Sept. 24.
- Telegraphy and telephony, Arrangement for wireless. W. Moser. 1,734,772; Nov. 5.
- Telegraphy and telephony system, High-frequency. P. Tätz. 1,721,236; July 16.
- Telegraphy, Cable. C. F. Nelson. 1,724,803; Aug. 13.
- Telegraphy, Facsimile. T. G. Waldie. 1,700,915; Feb. 5.
- Telegraphy, Picture. O. Schriever. 1,724,684; Aug. 13.
- Telegraphy, Picture. G. M. Wright, S. B. Smith, and N. B. Davis. 1,740,490; Dec. 24.
- Telegraphy, Submarine-cable. R. D. Parker and W. L. Overton. 1,708,974; Apr. 16.
- Telegraphy, Submarine carrier. A. M. Curtis. 1,733,583; Oct. 29.
- Telegraphy, Synchronized quadruplex. W. C. Peterman. 1,699,444; Jan. 15.
- Telemetric summation system. R. M. Rowell. 1,732,987; Oct. 22.
- Telemetric system. B. W. St. Clair. 1,718,497; June 25.
- Telephone. J. O. Cadieux. 1,717,091; June 11.
- Telephone. J. T. F. Conti. 1,739,889; Dec. 17.
- Telephone. J. Massolle, H. Vogt, and J. Engl. Re17,448; Oct. 1.
- Telephone. J. F. Parker. 1,726,855; Sept. 3.
- Telephone. C. H. Sedgwick. 1,697,575; Jan. 1.
- Telephone. J. J. Swan. 1,700,553; Jan. 29.
- Telephone. W. S. Turney and A. N. Long, jr. 1,713,061; May 14.
- Telephone and the like. H. J. Round. 1,713,006; May 14.
- Telephone apparatus. A. F. Bennett. 1,711,258; Apr. 30.
- Telephone apparatus. H. Sell and B. Langenbeck. 1,709,688; Apr. 16.
- Telephone attachment. A. E. Lipp. 1,735,008; Nov. 12.
- Telephone attachment. M. Skolnik. 1,699,862; Jan. 22.
- Telephone attachment. J. A. Weis. 1,707,452; Apr. 2.
- Telephone attachment, Sanitary. S. Wilson. 1,741,668; Dec. 31.
- Telephone bookstand and calendar, Combination. M. Henschel. 1,740,855; Dec. 24.
- Telephone, busy-signal device. F. S. Wertheimer. 1,701,288; Feb. 5.
- Telephone central-office equipment, Contactor drum for. C. C. Barber. 1,724,989; Aug. 20.
- Telephone circuit, Operator's. S. F. Nelson. 1,718,301; June 25.
- Telephone, Condenser. J. Unterholzner. Re17,349; July 2.
- Telephone conductors, Loading. R. Goldschmidt. 1,722,208; July 23.
- Telephone-cord take-up. H. Sebell. 1,737,978; Dec. 3.
- Telephone desk set. H. F. Oberfell. 1,738,919; Dec. 10.
- Telephone, Dial. E. T. Norton. 1,723,297; Aug. 6.
- Telephone-dial light. L. C. Villar. 1,725,430; Aug. 20.
- Telephone-dial lock. F. X. Daily. 1,717,147; June 11.
- Telephone-directory fixture. E. A. Koelling. 1,699,895; Jan. 22.
- Telephone, Electrostatic. J. Massolle. Re17,257; Apr. 2.
- Telephone, Electrostatic. R. Nagel. 1,708,846; Apr. 9.
- Telephone-exchange maintenance system. C. V. Taplin and A. S. Bertels. 1,717,074; June 11.
- Telephone-exchange system. H. M. Bascom. 1,722,262; July 30.
- Telephone-exchange system. H. E. Bragg. 1,722,033; July 23.
- Telephone-exchange system. E. H. Clark. 1,700,467; Jan. 29.
- Telephone-exchange system. J. B. Draper. 1,700,473; Jan. 29.
- Telephone-exchange system. C. B. Fowler. 1,738,290; Dec. 3.
- Telephone-exchange system. H. Hovland. 1,708,946; Apr. 16.
- Telephone-exchange system. H. Hovland. 1,711,682; May 7.
- Telephone-exchange system. F. A. Stearn. 1,722,064; July 23.
- Telephone-exchange system. R. L. Stokely. 1,719,091; July 2.
- Telephone-exchange system. G. Thompson. 1,705,947; Mar. 19.
- Telephone-exchange system. H. W. Ulrich and W. B. Prince. 1,719,494; July 2.
- Telephone-exchange system. E. Vroom and F. S. Entz. 1,725,323; Aug. 20.
- Telephone-exchange system. O. H. Williford. 1,733,569; Oct. 29.
- Telephone-exchange system, Call-charging. W. T. Haines. 1,725,757; Aug. 27.
- Telephone-exchange system, Machine-switching. W. W. Carpenter. 1,700,466; Jan. 29.
- Telephone-exchange system, Toll-service. T. M. Hamer. 1,705,917; Mar. 19.
- Telephone-exchange systems, Impulse-repeating device for automatic and semiautomatic. R. Trechcinski. 1,720,107; July 9.
- Telephone head set. A. P. Young and A. T. Stace. 1,713,206; May 14.
- Telephone instrument or the like, Apartment-house. R. H. Boardman. Des. 78,559; May 21.
- Telephone lock, Coin-controlled. E. B. Rose. 1,730,689; Oct. 8.
- Telephone-message apparatus. S. Zullo. 1,738,551; Dec. 10.
- Telephone mouthpiece, Sanitary individual. A. W. Cross. 1,739,950; Dec. 17.
- Telephone mouthpieces, Attachment for. R. S. Graham. 1,706,778; Mar. 26.
- Telephone muffler. M. Meyerson. 1,704,899; Mar. 12.



- Telephone or telegraph, Single-conductor. A. B. Watson. 1,731,802; Oct. 15.
- Telephone pay station. E. M. Schantz. 1,723,081; Aug. 6.
- Telephone plug. L. O. Marsteller. 1,697,197; Jan. 1.
- Telephone plug connector. E. Weston. 1,720,653; July 9.
- Telephone, Portable. R. S. Cooper. 1,739,503; Dec. 17.
- Telephone protective system. C. L. G. Fortescue. 1,728,534; Sept. 17.
- Telephone purposes, Interchangeable set of relays for. F. Merk. 1,714,611; May 28.
- Telephone receiver. H. D. Hineline. 1,721,217; July 16.
- Telephone receiver. A. H. Inglis and R. Guenther. 1,738,653; Dec. 10.
- Telephone receiver. G. Kiernan. 1,714,377; May 21.
- Telephone receiver. D. W. Norwood. 1,710,106; Apr. 23.
- Telephone receiver. N. C. Schellenger. 1,700,954; Feb. 5.
- Telephone receiver. A. P. Young and J. Hutt. 1,721,426; July 16.
- Telephone receiver and like instrument. J. H. Butcher and G. H. Bird. 1,728,039; Sept. 10.
- Telephone-receiver cap. G. B. French. 1,732,043; Oct. 15.
- Telephone receiver, Loud-speaking. J. K. Delano. 1,703,926; Mar. 5.
- Telephone receiver, Loud-speaking. A. A. Thomas. Re-17,186; Jan. 1.
- Telephone receiver, Loud-speaking. A. A. Thomas. 1,715,106; May 28.
- Telephone-receiving system, Wireless. P. W. Willans. 1,735,150; Nov. 12.
- Telephone relay connection. F. Albrecht. 1,722,996; Aug. 6.
- Telephone repeater. W. Wolff. 1,708,748; Apr. 9.
- Telephone repeater circuits. A. B. Clark and G. Crisson. 1,734,113; Nov. 5.
- Telephone-service observing system. A. J. Chanter. 1,730,969; Oct. 8.
- Telephone set, Universal. I. W. Green and A. H. Inglis. 1,734,124; Nov. 5.
- Telephone station, Desk. F. Merk. 1,721,402; July 16.
- Telephone stations, Multiple plug and socket for portable. F. Kuke. 1,703,492; Feb. 26.
- Telephone-substation ringers, Adapter for. H. F. Obergfell. 1,699,749; Jan. 22.
- Telephone switching system, Electromechanical. F. Aldendorff. 1,705,054; Mar. 12.
- Telephone system. R. S. Bailey and L. L. Eagon. 1,724,898; Aug. 20.
- Telephone system. H. M. Bascom. 1,723,123; Aug. 6.
- Telephone system. H. M. Bascom. 1,741,272; Dec. 31.
- Telephone system. J. I. Bellamy. 1,712,643; May 14.
- Telephone system. J. L. Bellamy and R. G. Richardson. 1,732,184; Oct. 15.
- Telephone system. L. J. Bowne. 1,719,499; July 2.
- Telephone system. L. J. Bowne. 1,724,903; Aug. 20.
- Telephone system. H. D. Cahill. 1,717,143; June 11.
- Telephone system. H. C. Caverly. 1,724,905; Aug. 20.
- Telephone system. D. A. Christian. 1,738,564; Dec. 10.
- Telephone system. R. E. Collis. 1,733,580; Oct. 29.
- Telephone system. R. D. Conway. 1,700,469; Jan. 29.
- Telephone system. T. F. Crocker. 1,738,358; Dec. 3.
- Telephone system. T. F. Crocker. 1,741,098; Dec. 24.
- Telephone system. T. F. Crocker and H. R. Parshall. 1,740,073; Dec. 17.
- Telephone system. G. Deakin. 1,733,584; Oct. 29.
- Telephone system. J. W. Dehn. 1,705,906; Mar. 19.
- Telephone system. E. Dietze. 1,709,900; Apr. 23.
- Telephone system. H. M. Friendly. 1,709,479; Apr. 16.
- Telephone system. H. M. Friendly. 1,714,303; May 21.
- Telephone system. H. M. Friendly. 1,726,982; Sept. 3.
- Telephone system. C. Gillings and W. O. Passmore. 1,741,514; Dec. 31.
- Telephone system. F. Gohorel and C. Stewart. 1,724,189; Aug. 13.
- Telephone system. J. W. Gooderham. 1,738,294; Dec. 3.
- Telephone system. F. H. Graham. 1,724,924; Aug. 20.
- Telephone system. I. W. Green. 1,723,153; Aug. 6.
- Telephone system. E. E. Hinrichsen. 1,738,245; Dec. 3.
- Telephone system. R. O. Hood. 1,697,007; Jan. 7.
- Telephone system. H. B. Johnson. 1,733,602; Oct. 29.
- Telephone system. L. H. Johnson. 1,738,298; Dec. 3.
- Telephone system. J. A. Krecek. 1,738,302; Dec. 3.
- Telephone system. M. Langer. 1,705,732; Mar. 19.
- Telephone system. C. J. Larsen. 1,700,320; Jan. 29.
- Telephone system. C. E. Lomax. 1,698,137; Jan. 8.
- Telephone system. C. E. Lomax. 1,737,930; Dec. 3.
- Telephone system. F. Lubberger. 1,729,852; Oct. 1.
- Telephone system. M. Mathias. 1,730,617; Oct. 8.
- Telephone system. W. H. Matthies. 1,708,949; Apr. 16.
- Telephone system. R. Mercer. 1,714,718; May 28.
- Telephone system. R. Mercer and F. Tench. 1,705,834; Mar. 19.
- Telephone system. P. B. Murphy. 1,730,981; Oct. 8.
- Telephone system. J. E. Ostline. 1,711,744; May 7.
- Telephone system. J. E. Ostline. 1,718,914; June 25.
- Telephone system. J. E. Ostline. 1,718,976; July 2.
- Telephone system. J. E. Ostline. 1,724,142; Aug. 13.
- Telephone system. J. E. Ostline. 1,729,851; Oct. 1.
- Telephone system. J. E. Ostline and T. M. Edmunds. 1,722,539; July 30.
- Telephone system. W. O. Passmore. 1,721,920; July 23.
- Telephone system. W. O. Passmore and C. E. Beale. 1,714,724; May 28.
- Telephone system. R. L. Quass. 1,722,351; July 30.
- Telephone system. A. J. Ray. 1,699,754; Jan. 22.
- Telephone system. A. J. Ray and R. F. Stehlik. 1,701,635; Feb. 12.
- Telephone system. R. L. Raymond. 1,717,893; June 18.
- Telephone system. E. A. Reap. 1,703,172; Feb. 26.
- Telephone system. L. L. Ruggles. 1,729,858; Oct. 1.
- Telephone system. L. M. Simpson. 1,731,943; Oct. 15.
- Telephone system. M. B. Stazak. 1,704,111; Mar. 5.
- Telephone system. M. B. Stazak. 1,713,564; May 21.
- Telephone system. M. B. Stazak. 1,715,393; June 4.
- Telephone system. M. B. Stazak. 1,732,034; Oct. 15.
- Telephone system. F. A. Stearn. 1,700,456; Jan. 29.
- Telephone system. R. F. Stehlik. 1,720,012; July 9.
- Telephone system. R. F. Stehlik. 1,732,185; Oct. 15.
- Telephone system. L. J. Stevenson. 1,734,696; Nov. 5.
- Telephone system. F. Tench. 1,699,457; Jan. 15.
- Telephone system. F. Tench. 1,729,853; Oct. 1.
- Telephone system. F. Tench. 1,729,856; Oct. 1.
- Telephone system. V. S. Tharp. 1,738,059; Dec. 3.
- Telephone system. H. W. Ulrich. 1,708,960; Apr. 16.
- Telephone system. J. H. Voss and C. E. Lomax. 1,741,746; Dec. 31.
- Telephone system. E. Vroom and F. S. Entz. 1,708,983; Apr. 16.
- Telephone system. B. A. Wallace. 1,706,640; Mar. 26.
- Telephone system. B. A. Wallace. 1,734,355; Nov. 5.
- Telephone system. G. Wetzel. 1,699,415; Jan. 15.
- Telephone system. J. Wicks. 1,723,224; Aug. 6.
- Telephone system. J. Wicks. 1,732,186; Oct. 15.
- Telephone system. J. Wicks. 1,738,624; Dec. 10.
- Telephone system. R. S. Wilbur. 1,733,568; Oct. 29.
- Telephone system. B. D. Willis. 1,697,623; Jan. 1.
- Telephone system. B. D. Willis. 1,698,979; Jan. 15.
- Telephone system, Automatic. F. Aldendorff. 1,718,449; June 25.
- Telephone system, Automatic. J. I. Bellamy. 1,713,813; May 21.
- Telephone system, Automatic. J. I. Bellamy and R. G. Richardson. 1,724,174; Aug. 13.
- Telephone system, Automatic. T. F. Crocker. 1,711,109; Apr. 30.
- Telephone system, Automatic. H. M. Friendly. 1,711,311; Apr. 30.
- Telephone system, Automatic. H. M. Friendly. 1,726,983; Sept. 3.
- Telephone system, Automatic. H. M. Friendly. 1,734,083; Nov. 5.
- Telephone system, Automatic. J. E. Gardner. 1,727,592-3; Sept. 10.
- Telephone system, Automatic. J. E. Gardner. 1,736,259; Nov. 19.
- Telephone system, Automatic. J. E. Gardner. 1,736,283; Nov. 19.
- Telephone system, Automatic. C. Gillings. 1,705,462; Mar. 12.
- Telephone system, Automatic. C. Gillings. 1,705,831; Mar. 19.
- Telephone system, Automatic. C. Gillings. 1,705,832; Mar. 19.
- Telephone system, Automatic. E. Jacobsen. Re17,526; Dec. 17.
- Telephone system, Automatic. E. Jacobsen. 1,735,575; Nov. 12.
- Telephone system, Automatic. T. Korthäuer. 1,737,423; Nov. 26.
- Telephone system, Automatic. C. E. Lomax. 1,698,138; Jan. 8.
- Telephone system, Automatic. C. E. Lomax. 1,710,934; Apr. 30.
- Telephone system, Automatic. C. E. Lomax. 1,725,152; Aug. 20.
- Telephone system, Automatic. C. E. Lomax. 1,729,745; Oct. 1.
- Telephone system, Automatic. C. E. Lomax. 1,735,328; Nov. 12.
- Telephone system, Automatic. C. E. Lomax. 1,739,245; Dec. 10.
- Telephone system, Automatic. M. L. Nelson. 1,710,182; Apr. 23.
- Telephone system, Automatic. M. L. Nelson. 1,711,205; Apr. 30.
- Telephone system, Automatic. J. E. Ostline. 1,720,843; July 9.
- Telephone system, Automatic. J. E. Ostline. 1,726,759; Sept. 3.
- Telephone system, Automatic. H. R. Parshall. 1,739,178; Dec. 10.
- Telephone system, Automatic. W. O. Passmore. 1,722,538; July 30.
- Telephone system, Automatic. A. J. Ray. 1,724,144; Aug. 13.
- Telephone system, Automatic. R. G. Richardson and J. I. Bellamy. 1,710,490; Apr. 23.
- Telephone system, Automatic. R. G. Richardson and J. E. Gardner. 1,721,748; July 23.
- Telephone system, Automatic. R. G. Richardson and M. L. Nelson. 1,702,392; Feb. 19.
- Telephone system, Automatic. L. L. Ruggles. 1,721,640; July 23.
- Telephone system, Automatic. L. L. Ruggles. 1,723,209; Aug. 6.
- Telephone system, Automatic. R. F. Stehlik. 1,720,930; July 16.
- Telephone system, Automatic. R. F. Stehlik. 1,723,087; Aug. 6.



- Telephone system, Automatic. R. F. Stehlik. 1,727,137; Sept. 3.
- Telephone system, Automatic. R. F. Stehlik. 1,729,803; Oct. 1.
- Telephone system, Automatic. J. H. Voss. 1,741,549; Dec. 31.
- Telephone system, Automatic or semiautomatic. C. Stewart and F. Gohorel. 1,721,607; July 23.
- Telephone system, Manual. J. H. Levis, jr. 1,701,575-6; Feb. 12.
- Telephone system, Measured-service. A. Horn. 1,734,729; Nov. 5.
- Telephone system, Measured-service. J. H. Voss. 1,720,157; July 9.
- Telephone system, Measured-service. J. Wicks. 1,734,357; Nov. 5.
- Telephone system, Multioffice. C. E. Lomax. 1,721,226; July 16.
- Telephone system, Multioffice. M. L. Nelson. 1,705,833; Mar. 19.
- Telephone system, Multioffice. M. L. Nelson. 1,729,854; Oct. 1.
- Telephone system, Multioffice. W. T. Powell. 1,710,803; Apr. 30.
- Telephone system, Multioffice. R. F. Stehlik. 1,729,857; Oct. 1.
- Telephone system, Party-line. L. R. Waller. 1,700,458; Jan. 29.
- Telephone system, Party-line automatic. R. G. Richardson and J. I. Bellamy. 1,727,133; Sept. 3.
- Telephone system, Party-line automatic. R. G. Richardson and J. I. Bellamy. 1,731,217; Oct. 8.
- Telephone system, Secret. H. Nyquist and P. Mertz. 1,726,578; Sept. 3.
- Telephone system, Semiautomatic. W. O. Passmore. 1,716,563; June 11.
- Telephone transmitter. E. A. Graham and L. H. Paddle. 1,711,410; Apr. 30.
- Telephone transmitter. H. C. Pye. 1,708,956; Apr. 16.
- Telephone transmitter. A. E. Woodruff. 1,724,160; Aug. 13.
- Telephone-transmitter silencer. H. Haas. 1,701,883; Feb. 12.
- Telephone trunk circuits, Office-selecting means for. J. Davidson, jr. and H. E. Phelps. 1,725,753; Aug. 27.
- Telephone wall desk. W. D. Johnston. 1,709,983; Apr. 23.
- Telephones, Antiseptic mouthpiece for. J. A. Foster. 1,732,159; Oct. 15.
- Telephones, Article holder for. E. I. Plottle. 1,705,339; Mar. 12.
- Telephones, Secretary service for. C. E. Lomax. 1,741,639; Dec. 31.
- Telephonic communicating means. G. B. French. 1,730,761; Oct. 8.
- Telephonic instrument for transmitting or receiving purposes, Electrostatic. J. Massolle. Re17,256; Apr. 2.
- Telephony and telegraphy, System of secret radiant. J. H. Hammond, jr. 1,740,859; Dec. 24.
- Telephony, Arrangement for two-way. W. Wurst. 1,712,062; May 7.
- Telephony, Duplex system of. P. Tätz. 1,716,908; June 11.
- Telephony, Method of and arrangement for multiplex. W. Wurst. 1,721,492; July 16.
- Telephony upon one and the same electro-magnetic wave, Multiple. W. Von Glowacki. 1,697,941; Jan. 8.
- Telescope construction. R. S. Blair. 1,734,284; Nov. 5.
- Telescope for rifles, Sighting. R. G. Packard, jr. 1,704,059; Mar. 5.
- Telescope sights, Adjoint piece for. A. F. Gerdes. 1,728,993; Sept. 24.
- Telescope, Tacheometric. A. König. 1,715,845; June 4.
- Telescopes, Objective system for surgical. R. H. Wappler. 1,703,215; Feb. 26.
- Telescopic sight for guns. J. C. Karnes. 1,719,552; July 2.
- Telescoping arm clamp. D. C. Klausmeyer. 1,734,523; Nov. 5.
- Television. H. E. Ives. 1,738,007; Dec. 3.
- Television and like apparatus. R. S. Clay. 1,719,756; July 2.
- Television and like system. J. L. Baird. 1,735,946; Nov. 19.
- Television apparatus. J. L. Baird. 1,707,935; Apr. 2.
- Television apparatus. S. T. Syphit. 1,735,553; Nov. 12.
- Television system. J. W. Horton. 1,728,122; Sept. 10.
- Television system. V. K. Zworykin. 1,715,732; June 4.
- Television, System and method of. J. H. Hammond, jr. 1,725,710; Aug. 20.
- Telltale for stop and tail lights. F. Beal. 1,712,784; May 14.
- Temperature, Apparatus for controllably regulating. J. M. Larson. 1,704,008; Mar. 5.
- Temperature, Apparatus for controllably regulating. J. M. Larson. 1,705,527; Mar. 19.
- Temperature, Apparatus for controlling. G. D. Kingsland and P. S. Russel. 1,703,534; Feb. 26.
- Temperature-changing unit. R. H. Beach. 1,737,558; Dec. 3.
- Temperature compensation for magnets. I. F. Kinnard. 1,706,171; Mar. 19.
- Temperature compensator for speedometers, Mounting of. R. O. Helgeby. 1,717,684; June 18.
- Temperature control. C. L. Bastian and R. L. Farnham. 1,705,106; Mar. 12.
- Temperature-control apparatus. C. Wilhjelm. 1,739,882; Dec. 17.
- Temperature-control apparatus, Automatic. G. H. Johanson. 1,739,903; Dec. 17.
- Temperature-control device. E. K. Clark. 1,707,253; Apr. 2.
- Temperature-control device. G. B. M. Kelp. 1,725,006; Aug. 20.
- Temperature control, Fluid. R. S. Blair. 1,707,109; Mar. 26.
- Temperature control for liquid containers. W. K. Lewis. 1,714,228; May 21.
- Temperature-control system. E. B. Newill. 1,728,802; Sept. 17.
- Temperature-control system for condensers. C. L. Ware. 1,706,719; Mar. 26.
- Temperature controller. J. C. White and R. W. Miller. 1,718,016; June 18.
- Temperature controller, Time. R. W. Brown. 1,715,987; June 4.
- Temperature-controlling apparatus. J. A. Spencer. 1,697,868; Jan. 8.
- Temperature-controlling apparatus. D. Tucker. 1,719,949; July 9.
- Temperature-controlling system. R. W. Newcomb. 1,720,231; July 9.
- Temperature-inducing device. O. L. Egloff. 1,712,653; May 14.
- Temperature-indicating device. D. M. Palmer. 1,728,803; Sept. 17.
- Temperature-indicating device for calender rolls. C. E. Maynard. 1,717,849; June 18.
- Temperature-indicating device, Motor-vehicle. A. C. Grunwald. 1,712,208; May 7.
- Temperature-indicating means. W. A. Collins and C. Jardine. 1,732,152; Oct. 15.
- Temperature-indicating means. C. E. Thwing. 1,730,308; Oct. 1.
- Temperature-indicating mechanism, Distant-reading. E. L. Fonseca. 1,699,104; Jan. 15.
- Temperature indication. W. P. Dalrymple. 1,702,685; Feb. 19.
- Temperature indicator. S. Horelick. 1,706,609; Mar. 26.
- Temperature indicator. A. C. T. Isaac. 1,717,216; June 11.
- Temperature indicator, H. E. Rider. 1,728,907; Sept. 17.
- Temperature indicator for automobile engines. W. P. Dalrymple. 1,712,692; May 14.
- Temperature indicator for engines. C. A. Dunham. 1,731,612; Oct. 15.
- Temperature indicator for motors. C. C. Whittaker. 1,709,643; Apr. 16.
- Temperature of drying chambers, Controlling the. M. L. Mueller. 1,731,315; Oct. 15.
- Temperature of hot metal stock, Rolling and controlling the. J. R. George. 1,736,076; Nov. 19.
- Temperature of liquids or semiliquids, Determining the required. C. Davies. 1,731,887; Oct. 15.
- Temperature of oil within predetermined limits, Apparatus for maintaining the. J. J. Kermod. 1,704,506; Mar. 5.
- Temperature plant, Traveling. P. M. Masoian. 1,726,081; Aug. 27.
- Temperature-regulating apparatus. T. M. Knowland and H. A. Hands. 1,699,296; Jan. 15.
- Temperature-regulating system. E. S. Newcomb. 1,719,441; July 2.
- Temperature regulation. P. Diebold. 1,739,295; Dec. 10.
- Temperature regulation. P. Dodge. 1,720,723; July 16.
- Temperature regulation. C. L. Fortier. 1,724,347; Aug. 13.
- Temperature regulator. L. K. Marshall. 1,718,748; June 25.
- Temperature regulator. H. W. Partlow. 1,713,866; May 21.
- Temperature regulator. F. C. Reeder. 1,717,261; June 11.
- Temperature regulator. H. E. White. 1,705,694; Mar. 19.
- Temperature regulator for mechanical refrigerators. E. G. Hodgkins. 1,741,237; Dec. 31.
- Temperature regulator, Thermostatic. E. T. Johnson. 1,720,792; July 16.
- Temperature-responsive device. H. T. Faus. 1,742,138; Dec. 31.
- Temperature-responsive device, Multiple-indicating. H. H. Boyce. 1,739,285; Dec. 10.
- Temperature-stabilized shaft for turbines and making the same. S. H. Weaver. 1,734,930; Nov. 5.
- Temperatures in drawing tanks, Regulating glass. W. G. Koupal. 1,698,369; Jan. 8.
- Tempering apparatus. J. C. Davis. 1,730,918; Oct. 8.
- Tempering, Apparatus for batch. J. M. Schoonmaker, jr. 1,702,524; Feb. 19.
- Tempering apparatus for oil-bearing materials. F. B. Anderson. 1,723,118; Aug. 6.
- Tempering shoe parts, Apparatus for. F. E. Toothaker. 1,736,892; Nov. 26.
- Tempering sole leather, Apparatus for. C. Shaw. 1,700,653; Jan. 29.
- Tempering transfer web-coating material. W. J. Hughes. 1,717,341; June 11.
- Tempering water for concrete mixers and for cooling the motor therefor. J. C. Merwin. 1,735,615; Nov. 12.
- Tempering, welding, and brazing compound. C. R. Bowers. 1,718,917; June 25.



- Template generator. J. C. and R. D. Shaw. 1,719,812; July 2.
- Templates for molds for grinding deformed spherical surfaces. Device for manufacturing. T. Klatt 1,727,434; Sept. 10.
- Temple. E. Pappert. Des. 78,310; Apr. 16.
- Temple. L. Poeton. 1,736,362; Nov. 19.
- Temples, Selvage attachment for. H. C. Bausinger, jr., and H. D. Barnes. 1,717,650; June 18.
- Tender. E. E. Hicken. 1,731,101-2; Oct. 8.
- Tender. E. E. Hicken. 1,733,014; Oct. 22.
- Tender. E. E. Hicken. 1,734,808; Nov. 5.
- Tender, Locomotive. E. E. Hicken. 1,733,015-16; Oct. 22.
- Tender tank. C. Ducas. 1,715,495; June 4.
- Tennis-ball-covering machine. F. W. Gesalman. 1,706,384; Mar. 19.
- Tennis net and manufacturing same. L. L. Appleyard. 1,700,192; Jan. 29.
- Tennis racket and the like. S. O. Cardwell. 1,721,897; July 23.
- Tennis racket or similar article. S. C. Allen. Des. 77,633; Feb. 5.
- Tenoning machines, Attachment for. C. P. Bird. 1,708,601; Apr. 9.
- 10-phenyl-benzanthrone and derivatives of the same. R. Berliner, B. Stein, and W. Trautner. 1,713,591; May 21.
- Tension bracket for whip rollers. F. Winters. 1,724,631; Aug. 13.
- Tension control. O. R. Winkler. 1,708,344; Apr. 9.
- Tension device. G. S. Beckman. 1,700,665; Jan. 29.
- Tension device for automatic loom shuttles. W. E. Lundgren. 1,713,706; May 21.
- Tension device for looms, Automatic. G. McWhirter. 1,714,390; May 21.
- Tension device for musical instruments. M. A. Oettinger. 1,713,002; May 14.
- Tension device for printing webs. H. A. W. Wood. 1,720,776; July 16.
- Tension device for shuttles. J. Rush. 1,729,551; Sept. 24.
- Tension device for web rolls. J. J. Halliwell. 1,735,570; Nov. 12.
- Tension equalizer, Guy-wire. E. A. Mack. 1,720,339; July 9.
- Tension hook for knitting machines. O. H. Vlehweger. 1,721,609; July 23.
- Tension indicator for corn-planter check wires. M. L. Riley. 1,715,098; May 28.
- Tension lever. M. Camagni. 1,709,114-5; Apr. 16.
- Tension mechanism for embroidering machines. W. Huebler. 1,704,128; Mar. 5.
- Tension mechanism for sewing machines, Thread-. M. Köhler. 1,715,371; June 4.
- Tension-release mechanism, Multiple-thread. R. Becker. 1,735,071; Nov. 12.
- Tensioning device. R. Steele. 1,733,834; Oct. 29.
- Tensioning device for automatically threading loom shuttles. H. A. Davis. 1,725,621; Aug. 20.
- Tensioning device for drive chains. F. L. Morse. 1,701,820; Feb. 12.
- Tensioning device for roller blinds. P. Schultes. 1,726,589; Sept. 3.
- Tensioning mechanism, Filling-thread-. W. A. Tebo. 1,714,993; May 28.
- Tent. M. and O. Chadirjian. 1,699,094; Jan. 15.
- Tent. G. H. Dial. 1,735,787; Nov. 12.
- Tent. E. D. Morgan. 1,728,356; Sept. 17.
- Tent accessory for automobiles. F. B. Lichtenberg. 1,707,270; Apr. 2.
- Tent construction. C. C. Chittim. 1,729,987; Oct. 1.
- Tent construction. C. M. Wickstrum. 1,738,219; Dec. 3.
- Tent, Folding. C. C. Chittim. 1,730,267; Oct. 1.
- Tent frame. P. V. Kuhn. 1,720,132; July 9.
- Tent pin. C. M. Wickstrum. 1,724,688; Aug. 13.
- Tent, Portable. F. Snouffer. 1,701,428; Feb. 5.
- Tent structure. E. R. Gilkison. 1,707,960; Apr. 2.
- Tent-supporting frame. W. J. Flintjer. 1,730,565; Oct. 8.
- Tent top and hand bag. Combined. J. P. Lillesö-Petersen. 1,710,675; Apr. 23.
- Tent, Tree-covering. W. D. Hammond. 1,711,843; May 7.
- Tenter clip. J. J. Hoey. 1,739,071; Dec. 10.
- Tenter clip. F. C. Jerauld. 1,706,613; Mar. 26.
- Tenter clip. F. L. Jerauld. 1,718,692; June 25.
- Tenter clip. J. H. Williams. 1,736,686; Nov. 19.
- Tentering and drying machine. C. C. Kenyon. 1,719,612; July 2.
- Tentering and drying machine for textile fabrics. H. Krantz. Re17,269; Apr. 16.
- Tentering machine, Double. H. W. Honeyman, jr., and J. J. Hoey. 1,732,089; Oct. 15.
- Terminal. O. A. Colby. 1,728,786; Sept. 17.
- Terminal and liner puller, Battery. A. P. Ridenour. 1,732,696; Oct. 22.
- Terminal, Belt. C. A. Cunningham. 1,706,023; Mar. 19.
- Terminal block, Receptacle. J. V. Schraig. 1,697,329; Jan. 1.
- Terminal clamp, Battery. J. B. Scharf and M. Roth. 1,727,219; Sept. 3.
- Terminal clamp, Battery-post. H. A. Rennback. 1,736,623; Nov. 19.
- Terminal, Clamping. C. F. Jacobs. 1,724,763; Aug. 13.
- Terminal, cleaner, Battery-. A. S. Miller. 1,741,531; Dec. 31.
- Terminal clip. A. Champion. 1,705,045; Mar. 12.
- Terminal clip. F. C. Kroeger. 1,700,899; Feb. 5.
- Terminal clip. A. T. Shipstead. 1,700,859; Feb. 5.
- Terminal, Condenser. R. E. Marbury. 1,699,744-5; Jan. 22.
- Terminal connector. E. L. Benson. 1,713,735; May 21.
- Terminal connector. W. T. Haley and R. R. Williams. 1,698,629; Jan. 8.
- Terminal connector. H. Rabezzana. 1,701,387; Feb. 5.
- Terminal connector, Solderless bootleg. W. R. Burke. 1,697,826; Jan. 1.
- Terminal connection for electric apparatus. E. G. Newton. 1,740,367; Dec. 17.
- Terminal connection, Self-locking. A. C. Reisz. 1,715,624; June 4.
- Terminal construction, Contact-. L. K. Marshall. 1,700,172; Jan. 29.
- Terminal device. M. Morrison. 1,716,144; June 4.
- Terminal, Electric-wire, L. Van Gale. 1,701,801; Feb. 12.
- Terminal for bushings, Conductor. A. O. Austin. 1,728,952; Sept. 24.
- Terminal for conductor wires. D. I. Marshall. 1,720,605; July 9.
- Terminal for conductors. C. A. Roberts. 1,706,412; Mar. 26.
- Terminal for electric conductors. P. M. Hengstenberg. 1,729,873; Oct. 1.
- Terminal for electrical conductors, Connecting. W. H. Ray. 1,722,353; July 30.
- Terminal for flexible braided conductors and making same, Eyeleted. J. L. Woodbridge. 1,702,756; Feb. 19.
- Terminal for heating unit. W. R. King. 1,735,168; Nov. 12.
- Terminal for resistance conductors. W. R. King. 1,731,380; Oct. 15.
- Terminal for space current devices. R. B. Prindle. 1,716,930; June 11.
- Terminal, High-voltage. F. S. Smith. 1,703,409; Feb. 26.
- Terminal mounting, Contact-. V. R. Despard and H. C. R. Popp. 1,738,140; Dec. 3.
- Terminal, Plaster. I. A. Baum. 1,708,688; Apr. 9.
- Terminal, Plaster. I. A. Baum. 1,727,953; Sept. 10.
- Terminal, Pole cable. L. M. Persons. 1,716,531; June 11.
- Terminal post for electric-heating elements. A. C. Dowaitt. 1,733,530; Oct. 29.
- Terminal protector. C. F. Wilson. 1,728,319; Sept. 17.
- Terminal protector hood. W. B. Day. 1,722,203; July 23.
- Terminal puller. R. V. Craddock. 1,712,982; May 14.
- Terminal, Self-locking. W. H. Schramm. 1,726,683; Sept. 3.
- Terminal, Spark-plug. W. M. Wilcox. 1,707,292; Apr. 2.
- Terminal, Spark-plug-cable. A. V. D. Willgoos. 1,741,667; Dec. 31.
- Terminal, Surface-unit. F. W. Cuffe. 1,720,512; July 9.
- Terminal, Underground pole cable. G. R. Folds and L. M. Persons. 1,697,060; Jan. 1.
- Terminal, Wire. A. P. Fahnestock. 1,706,659; Mar. 26.
- Terminal with steaming equipment, Locomotive. S. Otis. 1,709,228; Apr. 16.
- Terminals, Method of and apparatus for casting wire. W. F. Stuckeman. 1,711,069; Apr. 30.
- Terpene products from gasoline terpene mixtures, Recovering. E. E. Reid. 1,722,765; July 30.
- Terra-cotta articles, Making. A. F. Hottinger. 1,737,847; Dec. 3.
- Terrazo strip. H. L. Fink. 1,697,003; Jan. 1.
- Terrazo strip. H. L. Fink. 1,725,575; Aug. 20.
- Terrestrial globe. T. Kamei and F. Kuwata. 1,740,022; Dec. 17.
- Test gauge and the like, Tire-. F. G. Johnson. 1,714,373; May 21.
- Test sheet, Self-marking. F. L. Clapp and R. V. Young. 1,705,657; Mar. 19.
- Test T. F. Cohen. 1,720,819; July 16.
- Tester, Hair. F. Coune. 1,708,359; Apr. 9.
- Tester, Penetration. W. R. Goddard and C. K. Hewes. 1,703,270; Feb. 26.
- Tester, Spark-plug. C. S. Cole. 1,700,026; Jan. 22.
- Tester, Valve. W. N. Justice. 1,703,824; Feb. 26.
- Tester, Valve. R. M. Smith. 1,719,787; July 2.
- Testing and assorting machine, Spring. L. P. Crosman. 1,713,690; May 21.
- Testing and labeling machine, Egg. E. A. Lauber. 1,708,548; Apr. 9.
- Testing and otherwise utilizing filler rods, Apparatus for. J. B. Green. 1,722,570; July 30.
- Testing and test set. J. W. Dehn. 1,733,585; Oct. 29.
- Testing and training device for aviators. W. C. Ocker. 1,715,304; May 28.
- Testing apparatus. F. T. Coldwell. 1,718,529; June 25.
- Testing apparatus. R. L. Dezendorf. 1,706,567; Mar. 26.
- Testing apparatus. M. L. Nelson. 1,734,948; Nov. 5.
- Testing apparatus. E. F. Weston. 1,714,651; May 28.
- Testing apparatus, Bread-. R. L. Corby. 1,725,781; Aug. 27.
- Testing apparatus, Concrete-. O. H. Hansard and D. D. McGuire. 1,702,603; Feb. 19.
- Testing apparatus, Electrical. A. B. Hendricks, jr. 1,706,158; Mar. 19.
- Testing apparatus for electrical circuits. H. H. Abbott and G. W. Kuhn. 1,730,402; Oct. 8.
- Testing apparatus for measuring the compressibility of bodies softening when compressed. H. Hirsch and H. Hecht. 1,699,589; Jan. 22.
- Testing apparatus for pipes, drains, and the like, Smoke-. H. MacFarlane. 1,708,731; Apr. 9.



- Testing apparatus, Meter-. T. de Koning. 1,721,375; July 16.
- Testing blood, Method of and device for. F. Meyer. 1,724,953; Aug. 20.
- Testing butter and apparatus for practicing same. C. E. Gray. 1,708,307; Apr. 9.
- Testing coal, Method of and Apparatus for. R. Geipert. 1,721,813; July 23.
- Testing device. A. Colossoff. 1,707,051; Mar. 26.
- Testing device. D. A. Gauthier. 1,718,553; June 25.
- Testing device. F. E. Kreft. 1,736,605; Nov. 19.
- Testing device. J. H. Pengilly and V. Brown. 1,739,913; Dec. 17.
- Testing device. O. A. Shann. 1,724,973; Aug. 20.
- Testing device. E. G. Thomas. 1,701,021; Feb. 5.
- Testing device. E. G. Thomas. 1,715,800; June 4.
- Testing device. N. A. Wahlberg. 1,699,771; Jan. 22.
- Testing device, Card-. A. Weiland and C. A. Mezger. 1,712,183; May 7.
- Testing device, Distributor. C. Kuppers. 1,702,011; Feb. 12.
- Testing device, Eye-. B. D. Ritholz. 1,697,205; Jan. 1.
- Testing device for knitting-machine needles. G. Gastrich. 1,703,928; Mar. 5.
- Testing device for vehicle wheels, Brake-. A. Hovde. 1,733,224; Oct. 29.
- Testing device, Liquid-. R. H. Manchester and L. W. Ely. 1,709,139; Apr. 16.
- Testing device, Motor-vehicle. R. O. Gill. 1,703,031; Feb. 19.
- Testing device, Piston-ring-. C. C. Farmer. 1,703,873; Mar. 5.
- Testing device, Spark-plug-. E. R. Wike. 1,720,983; July 16.
- Testing device, Target-practice. R. Jarzabkiewicz and E. Wojdatt. 1,730,370; Oct. 8.
- Testing device, Tire-tube-. P. Milner. 1,707,130; Mar. 26.
- Testing device, Well-formation-. E. C. Johnston. 1,709,940; Apr. 23.
- Testing devices, Hardness-. D. C. Davis. 1,708,262; Apr. 9.
- Testing equipment. V. S. Tharp. 1,716,471; June 11.
- Testing eyes, Apparatus for. E. B. Kirk. 1,735,005; Nov. 12.
- Testing eyes, Device for. W. H. Dunn. 1,698,431; Jan. 8.
- Testing fire extinguishers, Method of and apparatus for. G. B. Tourtellotte. 1,714,197; May 21.
- Testing flexible strands, Method of and apparatus for. B. K. Ford. 1,739,298; Dec. 10.
- Testing frame. A. M. Brenne. 1,737,565; Dec. 3.
- Testing gears, Method and apparatus for. G. L. Hansen. 1,701,183-4; Feb. 5.
- Testing insulating liquids, Apparatus for. C. Dantsizen. 1,721,374; July 16.
- Testing insulation, Apparatus for. A. S. Dana. 1,724,565; Aug. 13.
- Testing lever keys. A. A. Hansen. 1,707,265; Apr. 2.
- Testing machine. W. W. McLaurin. 1,715,093; May 28.
- Testing machine. D. C. Scott. 1,714,638; May 28.
- Testing machine. C. B. Thwing. 1,709,638; Apr. 16.
- Testing machine, Acidity-. D. W. Sutherland, jr. 1,700,655; Jan. 29.
- Testing machine, Brake-. R. F. Daniels. 1,702,817; Feb. 19.
- Testing machine, Centrifugal. R. J. Wightman. 1,713,579; May 21.
- Testing machine, Coin-operating nerve and eye. A. C. Olander. 1,708,734; Apr. 9.
- Testing machine for lubricants. H. G. Hill. 1,732,811; Oct. 22.
- Testing machine, Hardness-. R. K. Barry and L. Bowen. 1,722,263; July 30.
- Testing machine, Skill. C. E. Goerke. 1,730,726; Oct. 8.
- Testing magnetizable objects, Method of and apparatus for. C. W. Burrows. 1,730,966; Oct. 8.
- Testing materials, Method of and apparatus for. I. Williams. 1,711,866; May 7.
- Testing method, Bread-. R. L. Corby. 1,725,850; Aug. 27.
- Testing motor vehicle engines. R. B. Wasson. 1,701,168; Feb. 5.
- Testing pipe, Apparatus for. P. R. Hawthorne. 1,734,805; Nov. 5.
- Testing plug, Pipe-pressure. O. Taylor. 1,710,439; Apr. 23.
- Testing prime movers, System and apparatus for. C. F. Scott. 1,738,452; Dec. 3.
- Testing rings and engines, Method of and apparatus for. R. B. Wasson. 1,729,732; Oct. 1.
- Testing stand. C. H. Fennell. 1,740,167; Dec. 17.
- Testing switch. H. J. Blakeslee. 1,725,049; Aug. 20.
- Testing system. D. K. Gannett. 1,716,437-8; June 11.
- Testing system, Electrical. P. G. Edwards and H. W. Herington. 1,705,561; Mar. 19.
- Testing system, Electrical. L. H. Johnson. 1,730,977; Oct. 8.
- Testing system, Electrical. R. E. Peoples. 1,724,962; Aug. 20.
- Testing telegraph transmission. H. Nyquist. 1,735,933; Nov. 19.
- Testing telegraph transmission. E. F. Watson and B. S. Swezey. 1,735,943; Nov. 19.
- Testing television and like system. P. Mertz. 1,706,538; Mar. 26.
- Testing the dielectric strength of insulating material, Apparatus for. A. O. Austin. 1,721,847; July 23.
- Testing the flux of materials under heat. C. J. Rukenbrod. 1,738,321; Dec. 3.
- Testing typewriter ribbons, Device for. C. J. Kannewisher. 1,738,830; Dec. 10.
- Testing vacuum tubes. W. N. Goodwin, jr. 1,704,566; Mar. 5.
- Testing vacuum tubes, Apparatus for. R. D. Hickok. 1,718,557; June 25.
- Testing vacuum tubes of the audion type. W. N. Goodwin, jr. and C. H. Bartlett. 1,716,227; June 4.
- Tether, Child's. H. E. Hodgson. 1,738,581; Dec. 10.
- Textile article, Decorative. J. R. Freedman. 1,701,152; Feb. 5.
- Textile fabric. F. W. Bader. Des. 78,916; July 9.
- Textile fabric. L. Biva. Des. 77,519-22; Jan. 22.
- Textile fabric. L. Biva. Des. 78,141-6; Apr. 2.
- Textile fabric. L. Biva. Des. 78,328-32; Apr. 23.
- Textile fabric. L. Biva. Des. 80,072-3; Dec. 10.
- Textile fabric. W. Brewer. Des. 79,177; Aug. 13.
- Textile fabric. W. Brewer. Des. 80,106; Dec. 17.
- Textile fabric. J. H. Bunting. Des. 77,879-81; Mar. 5.
- Textile fabric. J. H. Bunting. Des. 78,437-41; May 7.
- Textile fabric. J. H. Bunting. Des. 79,127-9; Aug. 6.
- Textile fabric. J. H. Bunting. Des. 79,417; Sept. 17.
- Textile fabric. J. and E. Castro. Des. 78,266; Apr. 16.
- Textile fabric. F. Christie. Des. 77,890; Mar. 5.
- Textile fabric. I. De Lancy. Des. 77,397-8; Jan. 8.
- Textile fabric. I. De Lancy. Des. 77,641-2; Feb. 5.
- Textile fabric. I. De Lancy. Des. 78,615; May 28.
- Textile fabric. J. C. Earnshaw. Des. 80,219; Dec. 31.
- Textile fabric. G. F. Erhard. Des. 78,196-9; Apr. 9.
- Textile fabric. L. Goldstein. Des. 80,079; Dec. 10.
- Textile fabric. D. R. Grulich. Des. 78,623; May 28.
- Textile fabric. H. Haug. Des. 77,485; Jan. 15.
- Textile fabric. I. Karasz. Des. 78,296; Apr. 16.
- Textile fabric. J. Kullmann. Des. 78,633-5; May 28.
- Textile fabric. S. R. and R. F. Leshner. Des. 78,112-13; Mar. 26.
- Textile fabric. C. Lipper. 1,698,639; Jan. 8.
- Textile fabric. J. H. Mack. Des. 77,902-4; Mar. 5.
- Textile fabric. M. J. Manus. Des. 78,641; May 28.
- Textile fabric. S. Miller. Des. 78,303; Apr. 16.
- Textile fabric. W. Muelberger. Des. 77,494-5; Jan. 15.
- Textile fabric. S. A. Neidlich. 1,717,117; June 11.
- Textile fabric. J. F. Newton. Des. 79,841; Nov. 5.
- Textile fabric. G. H. Perkins. Des. 79,844-5; Nov. 5.
- Textile fabric. G. H. Perkins. Des. 79,907-9; Nov. 12.
- Textile fabric. G. H. Perkins. Des. 79,981; Nov. 26.
- Textile fabric. G. H. Perkins. Des. 80,043-6; Dec. 3.
- Textile fabric. A. A. Ritter. Des. 78,481; May 7.
- Textile fabric. A. A. Ritter. Des. 79,387; Sept. 10.
- Textile fabric. H. Schweizer. Des. 79,168-9; Aug. 6.
- Textile fabric. M. Sherover. Des. 79,485-9; Sept. 24.
- Textile fabric. W. H. Spowers. Des. 77,375; Jan. 1.
- Textile fabric. H. F. Tiedemann. Des. 79,613; Oct. 15.
- Textile fabric. G. J. Virgile. Des. 77,992-6; Mar. 12.
- Textile fabric. G. J. Virgile. Des. 78,720; June 11.
- Textile fabric. E. Weiner and H. Katims. Des. 80,000; Nov. 26.
- Textile fabric and making same. W. Sponholz. 1,709,887; Apr. 23.
- Textile fabric and making the same. P. S. Smith. 1,726,634; Sept. 3.
- Textile fabric, Embroidered. W. Schmid. Des. 78,485; May 7.
- Textile fabric for French-cord shoe bindings and other uses. F. E. Ahearn. 1,704,069; Mar. 5.
- Textile-fabric-making machine. R. T. Markee. 1,717,990; June 18.
- Textile fabric or article of similar nature. G. S. Sauer. Des. 79,987-91; Nov. 26.
- Textile fabric or similar article. E. B. Brandenburg. Des. 78,087; Mar. 26.
- Textile fabric or similar article. J. Castro. Des. 77,390-3; Jan. 8.
- Textile fabric or similar article. J. Castro. Des. 77,671-2; Feb. 12.
- Textile fabric or similar article. A. Cneesh. Des. 78,445-6; May 7.
- Textile fabric or similar article. I. Dunlop. Des. 79,228; Aug. 20.
- Textile fabric or similar article. C. Muentener. Des. 79,837-9; Nov. 5.
- Textile fabric or similar article. B. S. Nash. Des. 80,241; Dec. 31.
- Textile fabric or similar article. F. B. Paisner. Des. 79,749-57; Oct. 29.
- Textile fabric or similar article. W. Willheim. Des. 77,449-51; Jan. 8.
- Textile fabric or similar article. W. Willheim. Des. 77,516; Jan. 15.
- Textile fabric or similar article. W. Willheim. Des. 77,719-20; Feb. 12.
- Textile fabric or similar article. W. Willheim. Des. 77,802; Feb. 19.
- Textile fabric or similar article. W. Willheim. Des. 78,243-4; Apr. 9.
- Textile fabric or similar article. W. Willheim. Des. 78,548-51; May 14.
- Textile fabric or similar article, Appliqué. M. Goldberg. Des. 80,119; Dec. 17.
- Textile fabric or similar article of manufacture. H. Haug. Des. 77,953; Mar. 12.
- Textile fabric or similar article of manufacture. A. J. Heinke. Des. 77,999-78,000; Mar. 12.



- Textile fabric or similar article of manufacture. A. J. Heinke. Des. 78,025; Mar. 19.
- Textile fabric or similar article of manufacture. A. J. Heinke. Des. 78,160; Apr. 2.
- Textile fabric or similar articles, Appliqué. M. Goldberg. Des. 78,158; Apr. 2.
- Textile fabric or the like. W. E. Barnes. Des. 78,432; May 7.
- Textile fabric or the like, Printed. S. S. Anhalt. Des. 78,373; Apr. 30.
- Textile fabric or the like, Printed. E. Erickson. Des. 78,809; June 25.
- Textile fabric or the like, Printed. L. J. Siracusano. Des. 77,507-8; Jan. 15.
- Textile fabric, Printed. W. H. Adams. Des. 80,017; Dec. 3.
- Textile-fabric structure. J. C. Brooks. 1,730,263; Oct. 1.
- Textile fibers of high quality from the skins of fish such as in particular, those of the Chondropterygii-Selachii, Obtaining. A. Ehrenreich. 1,713,036; May 14.
- Textile fibers, Producing a preparation for softening and oiling. S. Fuchs. 1,728,118; Sept. 10.
- Textile-finishing machine. F. W. P. Rose and C. Werner. 1,697,736; Jan. 1.
- Textile-finishing machine. F. W. P. Rose and C. Werner. 1,712,308; May 7.
- Textile goods, Process and apparatus for singeing. W. Osthoff. 1,726,678; Sept. 3.
- Textile lubricant and process. J. J. Schaefer, Jr. Re17,264; Apr. 9.
- Textile machinery, Stop-control means for. G. B. Cocker. 1,714,126; May 21.
- Textile material and producing same, Vegetable. L. Lilienfeld. 1,736,714; Nov. 19.
- Textile material and producing the same, Vegetable. L. Lilienfeld. 1,741,637; Dec. 31.
- Textile material and the production thereof. R. P. Foulds, J. T. Marsh, and F. C. Wood. 1,734,516; Nov. 5.
- Textile material and treating the same. C. B. White. 1,717,483; June 18.
- Textile material, Combing. W. Binns and F. D. Neill. 1,697,491; Jan. 1.
- Textile-material drawing. C. Simon. 1,697,737; Jan. 1.
- Textile panel for mattress coverings. H. Haug. Des. 77,693; Feb. 12.
- Textile-pattern chains, Reversing drive mechanism for. A. Friedmann. 1,712,660; May 14.
- Textile processes, Apparatus for use in. E. C. Cope. 1,725,849; Aug. 27.
- Textile roll. W. A. Carpenter. 1,730,357; Oct. 8.
- Textile strands, Apparatus for making. J. C. Coram. 1,738,093; Dec. 3.
- Textile threads, Manufacture of hollow artificial. H. Karplus. 1,707,164; Mar. 26.
- Textile-treating carrier. M. G. Rosenthal. 1,721,134; July 16.
- Textiles and textile articles, Making. S. L. Cluett. 1,734,896; Nov. 5.
- Texture having the appearance of leather, Making. G. A. Sallmann. 1,725,675; Aug. 20.
- Theater-chair, Adjustable. J. M. Birdsall. 1,712,727; May 14.
- Theater chair, Folding. F. G. Feinberg. Des. 78,960; July 9.
- Theater, hall, or the like. F. T. Hayes. 1,728,731; Sept. 17.
- Theater seat. C. H. Kurasch and F. Medler. 1,726,030; Aug. 27.
- Theater seat. C. A. Lewis. 1,701,577; Feb. 12.
- Theatrical appliance. E. Heuss. 1,723,168; Aug. 6.
- Theatrical appliance. W. E. Morrison. 1,735,352; Nov. 12.
- Theft alarm for automobiles. G. B. Wadsworth. 1,716,675; June 11.
- Theft-preventing device, Automobile. P. F. Mulcahy and W. C. Coony. 1,739,083; Dec. 10.
- Therapeutic agent for treatment of bodily lesions. H. L. Johnson. 1,696,958; Jan. 1.
- Therapeutic apparatus. G. Fabyan. 1,710,049; Apr. 23.
- Therapeutic apparatus, Portable electric-light. S. S. Blanchard. 1,702,028; Feb. 12.
- Therapeutic appliance. G. von Hütschler. 1,724,439; Aug. 13.
- Therapeutic appliance, Ultra-violet-light. R. D. Kleeman. 1,725,357; Aug. 20.
- Therapeutic blanket or the like. J. H. Dequer. 1,708,875; Apr. 9.
- Therapeutic light apparatus. N. E. Goodrich. 1,711,839; May 7.
- Therapeutic uses, Composition for. K. Connell. 1,704,727; Mar. 12.
- Therapeutical apparatus. G. H. Young. 1,727,264; Sept. 3.
- Therapeutical device. E. Wolters. 1,739,625; Dec. 17.
- Therapeutics, Appliance for head. V. P. Battenfeld. 1,705,467; Mar. 19.
- Therapeutics, Appliance for head. V. P. Battenfeld. 1,731,700; Oct. 15.
- Therapy appliance, Light-. F. A. Anderson. 1,697,449; Jan. 1.
- Thermal control device. A. J. Kusel. 1,706,890; Mar. 26.
- Thermal control of alternating-current electromagnetic devices. G. H. Whittingham. 1,738,488; Dec. 3.
- Thermal-control system. V. G. Vaughan. 1,729,561; Sept. 24.
- Thermal controlling system. G. A. Knaak. 1,708,309; Apr. 9.
- Thermal cut-out. G. W. O'Keeffe. 1,737,673-4; Dec. 3.
- Thermal cut-out. C. D. Platt. 1,726,503; Aug. 27.
- Thermal element. E. M. Claytor. 1,725,255; Aug. 20.
- Thermal protective device. O. Dreyer. 1,711,634; May 7.
- Thermal relay. A. J. Mottlau. 1,699,802; Jan. 22.
- Thermal relay. R. T. Pierce. 1,705,678; Mar. 19.
- Thermal relay. K. C. Randall. 1,699,752; Jan. 22.
- Thermionic apparatus. A. Schmidt, jr. 1,717,265; June 11.
- Thermionic device. D. G. Little. 1,716,142; June 4.
- Thermionic device. E. Y. Robinson. 1,705,377; Mar. 12.
- Thermionic device. H. J. Round. 1,711,969; May 7.
- Thermionic frequency-changing or modulating device. E. W. B. Gill and R. H. Donaldson. 1,702,001; Feb. 12.
- Thermionic tube. W. E. E. Habann. 1,719,699; July 2.
- Thermionic tube. G. Jobst. 1,732,050; Oct. 15.
- Thermionic tube. M. Osnos. 1,738,390; Dec. 3.
- Thermionic tube, High-power. J. Bethenod. 1,738,348; Dec. 3.
- Thermionic tubes, Mounting for. M. Zeh. 1,697,039; Jan. 1.
- Thermionic valve. H. W. Whitby. 1,710,328; Apr. 23.
- Thermoalarm. F. G. and W. M. Folberth. 1,727,400; Sept. 10.
- Thermoclarinet or the like. W. S. Haynes. 1,715,162; May 28.
- Thermoelectric apparatus. R. Rudenberg. 1,717,413; June 18.
- Thermoelectric couple. C. Mieville. 1,741,870; Dec. 31.
- Thermoelectrical timing control. B. W. Jones. 1,706,168; Mar. 19.
- Thermometer. C. Agrios. Des. 79,413; Sept. 17.
- Thermometer. E. A. Ilemann. 1,733,600; Oct. 29.
- Thermometer. O. B. McClintock. Des. 78,580; May 21.
- Thermometer. H. Y. Norwood. 1,741,330; Dec. 31.
- Thermometer. F. W. Springer. 1,724,528; Aug. 13.
- Thermometer. W. G. Ziegler. 1,722,619; July 30.
- Thermometer, Bath. J. A. Van Brunt. Des. 78,416; Apr. 30.
- Thermometer, Bathtub. W. F. Herold. Des. 79,137; Aug. 6.
- Thermometer case. C. S. J. Russell. 1,739,693; Dec. 17.
- Thermometer case. H. E. Stonebraker. 1,698,377; Jan. 8.
- Thermometer case, Pocket. O. Greenwald. 1,739,669; Dec. 17.
- Thermometer, Casing head for. O. B. McClintock. Des. 78,581; May 21.
- Thermometer, Electric. D. P. Ghadiali. 1,724,469; Aug. 13.
- Thermometer for incubators. G. Cugley. 1,704,559; Mar. 5.
- Thermometer, Guide. H. F. Schroeder. 1,735,880; Nov. 19.
- Thermometer, Sterilizing. T. M. Stewart. 1,729,298; Sept. 24.
- Thermometer tubes, Method of and apparatus for sealing. J. L. Chaney. 1,739,208; Dec. 10.
- Thermometric bulbs, Making. K. L. Tate. 1,729,299; Sept. 24.
- Thermomilliammeter. H. A. Affel. 1,731,239; Oct. 15.
- Thermopile. C. B. Thwing. 1,715,316; May 28.
- Thermopile and manufacture. W. H. Thorpe. 1,706,419; Mar. 26.
- Thermoplastic composition and making same. H. L. Fisher. 1,731,488; Oct. 15.
- Thermoscope. C. S. Gordon. 1,703,880; Mar. 5.
- Thermostat. A. E. Ellis. 1,735,268-9; Nov. 12.
- Thermostat. J. E. Eschbaugh. 1,731,214; Oct. 8.
- Thermostat. J. F. Fagan. 1,721,012; July 16.
- Thermostat. J. H. Grayson. 1,699,468; Jan. 15.
- Thermostat. L. P. Hynes and H. A. Williams. 1,720,837; July 16.
- Thermostat. E. J. Levy. Re17,228; Mar. 5.
- Thermostat. H. R. Loranger and D. D. Parshall. 1,709,944; Apr. 23.
- Thermostat. E. A. Mau. 1,731,822; Oct. 15.
- Thermostat. L. A. M. Phelan. 1,704,370; Mar. 5.
- Thermostat. G. A. Robertshaw. 1,732,538; Oct. 22.
- Thermostat. F. Schaum. 1,724,425; Aug. 13.
- Thermostat. P. F. Shivers. 1,730,331; Oct. 8.
- Thermostat. I. G. Thomas. 1,705,690; Mar. 19.
- Thermostat. E. T. Vincent. 1,722,186; July 23.
- Thermostat. F. C. Volkman. 1,741,892; Dec. 31.
- Thermostat alarm switch. J. A. Payzant. 1,729,962; Oct. 1.
- Thermostat apparatus for water heaters. E. Howe. 1,723,239; Aug. 6.
- Thermostat-controlled alarm. C. G. Rowan. 1,705,837; Mar. 19.
- Thermostat, Electric. A. A. Thomas. 1,733,085; Oct. 22.
- Thermostat electric-control device. H. E. Rider. 1,715,676; June 4.
- Thermostat for domestic water boilers. C. H. Morrow. 1,702,053; Feb. 12.
- Thermostat mechanism. P. H. Hamilton. 1,726,954; Sept. 3.
- Thermostat, Metallic. L. K. Marshall. 1,700,173; Jan. 29.
- Thermostat, Two-temperature. F. W. Powers and M. O. Snediker. 1,712,841; May 14.
- Thermostatic appliance. R. L. Skinner. 1,721,321; July 16.



- Thermostatic circuit controller C. A. Stilwell. 1,699,317; Jan. 15.
- Thermostatic-circuit controller. E. T. Williams. 1,736,027; Nov. 19.
- Thermostatic control. D. Eisinga. 1,738,878; Dec. 10.
- Thermostatic control. E. C. Henrion. 1,725,799; Aug. 27.
- Thermostatic control. W. W. McLaren. 1,715,464; June 4.
- Thermostatic control device. E. L. Fonseca. 1,715,650; June 4.
- Thermostatic control device. G. A. Robertshaw. 1,715,950; June 4.
- Thermostatic control for electrical heaters. L. P. Hynes. 1,717,155; June 11.
- Thermostatic control for electric heaters. F. Kuhn. 1,728,291; Sept. 17.
- Thermostatic control for electrically-heated apparatus. A. E. Whittier. Re17,391; July 30.
- Thermostatic control for electrically-heated apparatus. A. E. Whittier. 1,713,578; May 21.
- Thermostatic control for generators. C. Ringwald. 1,718,980; July 2.
- Thermostatic control for heating systems. B. F. Gaines. 1,698,191; Jan. 8.
- Thermostatic-control mechanism for domestic refrigerating systems. D. D. Parshall. 1,725,415; Aug. 20.
- Thermostatic control of a vent in a chamber. H. M. Cone. 1,705,176; Mar. 12.
- Thermostatic control of cooling circulation. W. B. Clifford. 1,734,963; Nov. 12.
- Thermostatic control of intake heater. A. Taub. 1,731,831; Oct. 15.
- Thermostatic control switch, Adjustable. H. D. Matthews. 1,726,748; Sept. 3.
- Thermostatic control system. A. S. Mancib. 1,732,100; Oct. 15.
- Thermostatic control system for electric heat-producing apparatus. A. O. Appelberg. 1,700,661; Jan. 29.
- Thermostatic device. V. E. Duemler and G. R. Koehn. 1,706,057; Mar. 19.
- Thermostatic device. R. P. Jackson. 1,731,420; Oct. 15.
- Thermostatic device. J. J. Simmons and R. J. Delaney. 1,728,012; Sept. 10.
- Thermostatic device. M. R. Wolfard. 1,725,607; Aug. 20.
- Thermostatic device for incubators and other apparatus. F. Hickok. 1,702,209; Feb. 12.
- Thermostatic element. W. M. Chace. 1,729,245; Sept. 24.
- Thermostatic fluid-controlling device. H. W. O'Dowd. 1,704,512; Mar. 5.
- Thermostatic flow regulator. H. A. Hoeschen. 1,726,068; Aug. 27.
- Thermostatic regulator. E. K. Clark. 1,709,656; Apr. 16.
- Thermostatic regulator. A. J. Mottlau. 1,731,903; Oct. 15.
- Thermostatic regulator. C. E. Summers and F. H. Hartzell. 1,700,210; Jan. 29.
- Thermostatic signal. C. F. Wentzel. 1,711,335; Apr. 30.
- Thermostatic switch. A. Appelberg. 1,699,994; Jan. 22.
- Thermostatic switch. P. Bloch and A. Nuñez. 1,705,391; Mar. 12.
- Thermostatic switch. J. J. Compo. 1,734,473; Nov. 5.
- Thermostatic switch. E. Klahn and F. L. Mullen. Re-17,453; Oct. 8.
- Thermostatic switch. G. Muffy. 1,704,141; Mar. 5.
- Thermostatic switch. C. T. Penton. 1,704,406; Mar. 5.
- Thermostatic switch. E. C. Raney. 1,719,851; July 9.
- Thermostatic switch. E. J. Ray. 1,720,057; July 9.
- Thermostatic switch. C. S. Sanders. 1,720,294; July 9.
- Thermostatic switch. I. G. Thomas. 1,728,811; Sept. 17.
- Thermostatic switch for electrical heating devices. F. Kuhn. 1,741,466; Dec. 31.
- Thermostatically-controlled mixer. J. V. Giesler and S. Hinshaw. 1,712,610; May 14.
- Thermistats, Manufacturing bimetallic. L. K. Marshall. 1,718,750; June 25.
- Thiazines, Derivative of. E. Rothlin and F. Müller. 1,737,475; Nov. 26.
- Thiazole derivatives of 1,4 naphthoquinone. New. W. Herzberg and G. Hoppe. 1,726,265; Aug. 27.
- Thickener. W. S. Orr. 1,734,044; Nov. 5.
- Thickener. E. J. Sweetland. 1,724,436; Aug. 13.
- Thioureas, Manufacturing. C. N. Hand and C. E. Smith. 1,724,580; Aug. 13.
- Thong mechanism, Loose-leaf. E. F. Turner. 1,719,735; July 2.
- Thorium hydride, Preparing. H. S. Cooper. 1,730,723; Oct. 8.
- Thrasher and like harvesting machine, Reaper. H. S. Taylor. 1,733,839; Oct. 29.
- Thrasher, Clover. A. J. Sawin. 1,716,837; June 11.
- Thrasher, Combination harvester. J. Schermuly. 1,713,352; May 14.
- Thrasher, Harvester. T. Dugan. 1,700,158; Jan. 29.
- Thrasher, Harvester. A. E. W. Johnson. 1,734,435; Nov. 5.
- Thrasher, Harvester. J. Mainland. 1,713,291; May 14.
- Thrasher, Multiple. D. H. Gilson. 1,732,885; Oct. 22.
- Thrasher, Reaper. B. S. Harris and H. M. Johnston. 1,712,821; May 14.
- Thrasher, Reaper. B. S. Harris and H. M. Johnston. 1,735,755; Nov. 12.
- Thrasher, Seed. M. Bebensee, W. C. Children, and M. Martin. 1,735,104; Nov. 12.
- Thrashers, Attachment for combined reaper. C. Slice. 1,725,939; Aug. 27.
- Thrashers, Feeder construction for harvester. A. R. Blewett. 1,740,723; Dec. 24.
- Thrashing attachment, Header. G. W. White. 1,739,380; Dec. 10.
- Thrashing machine. J. Jaakkola. 1,728,124; Sept. 10.
- Thrashing machine. J. J. Lee. 1,731,142; Oct. 8.
- Thrashing machine, Sorghum. R. E. C. Yockers. 1,702,146; Feb. 12.
- Thread cleaner. H. J. Hufford. 1,708,726; Apr. 9.
- Thread cleaner. H. J. Hufford. 1,722,218; July 23.
- Thread clearer. S. Hyslop. 1,740,242; Dec. 17.
- Thread cleaner. J. R. Welton. 1,711,434; Apr. 30.
- Thread cutter for weft-replenishing looms. W. H. King. 1,715,930; June 4.
- Thread cutter, Laterally-adjustable. E. R. Holmes. 1,715,923; June 4.
- Thread cutting and removing mechanism. A. A. Gordon and A. F. Morrell. 1,716,045; June 4.
- Thread-cutting apparatus. A. Cunningham. 1,720,209; July 9.
- Thread-cutting device for skeining machines. H. Wray. 1,703,979; Mar. 5.
- Thread-cutting mechanism for looms. A. A. Gordon. 1,733,191; Oct. 29.
- Thread drawing machine. H. Corral and J. Heggie. 1,704,881; Mar. 12.
- Thread-dressing machine. J. P. King. 1,729,272; Sept. 24.
- Thread-fastening machine. F. N. La Chapelle. 1,720,046; July 9.
- Thread for mending stockings, Supplying. M. G. Barney. 1,739,346; Dec. 10.
- Thread guide. J. R. Welton. 1,732,320; Oct. 22.
- Thread-guide-operating device for straight-bar-knitting machines. P. Lieberknecht. 1,715,338; May 28.
- Thread-guiding means. H. J. Hufford. 1,722,219; July 23.
- Thread moistener for hose or stocking knitting machines. R. E. York. 1,736,566; Nov. 19.
- Thread-moistening apparatus. B. Schmidt and O. Hundt. 1,730,950; Oct. 8.
- Thread or wire drying means for core-covering machines and the like. C. L. G. Lachaze. 1,731,426; Oct. 15.
- Thread protector. P. J. Shrum. 1,711,181; Apr. 30.
- Thread protector. P. J. Shrum. 1,735,983; Nov. 19.
- Thread protector and applying the same. E. R. and P. S. Brown. 1,708,657; Apr. 9.
- Thread protectors. Making. W. H. Westerman. 1,721,364; July 16.
- Thread-rolling machine. C. D. McDonald. 1,719,230; July 2.
- Thread-rolling machine, Rotary. R. H. Smith. 1,699,033; Jan. 15.
- Thread-tensioning device for automatically threading loom shuttles. H. Marsh. 1,708,513; Apr. 9.
- Thread trimmer for sewing machines. J. Kiewicz. 1,710,454; Apr. 23.
- Thread twister. W. E. Brierley. 1,722,072; July 23.
- Thread-waxing device. B. T. Leveque. 1,702,351; Feb. 19.
- Threading die. W. G. Furlong and K. H. Crumrine. 1,732,358; Oct. 22.
- Threading die. G. M. Mehl. 1,724,497; Aug. 13.
- Threading die, Pipe. H. W. Smith. 1,700,185; Jan. 29.
- Threading machine. W. L. Howlett. 1,737,310; Nov. 26.
- Threading the points of screw blanks, Device for. D. L. Swendsen. 1,705,319; Mar. 12.
- Threadless coupling. John W. Hooley. 1,737,242; Nov. 26.
- Threads, Apparatus and method of wet treating textile. M. Schoenfeld. 1,719,730; July 2.
- Threads, filaments, and the like, Manufacture of artificial. C. F. Topham, E. Hazeley, and E. A. Morton. 1,736,681; Nov. 19.
- Threads, filaments, bands, or films of a polished and transparent nature composed of plastic substances, Manufacture of. A. Landucci. 1,713,289; May 14.
- Threads, filaments, ribbons, and the like, Manufacture and production of artificial. E. Hazeley and E. A. Morton. 1,739,458; Dec. 10.
- Threads for auto chains, Attachment for. F. W. Wagner. 1,703,255; Feb. 26.
- Threads of artificial filaments, Manufacture or treatment of. C. F. Ryley, C. W. Palmer, and S. A. Welch. 1,725,829; Aug. 27.
- Threads, Producing. L. B. Conant. 1,703,476; Feb. 26.
- 3'-amino-4'-acylamido-o-benzoyl-benzoic acids and making the same. R. Adams and W. W. Moyer. 1,720,752; July 16.
- 3'-amino-4', 6'-dichloro-ortho-benzoyl-benzoic acid and making the same. I. Gubelmann, H. J. Weiland, and O. Stallmann. 1,711,146; Apr. 30.
- 3'-nitro-4'-acylamido-o-benzoyl-benzoic acids and making the same. R. Adams and W. W. Moyer. 1,720,751; July 16.
- 3'-nitro-4', 6'-dichloro-ortho-benzoyl-benzoic acid and making the same. I. Gubelmann, H. J. Weiland, and O. Stallmann. 1,711,145; Apr. 30.
- Three-shoe brake. A. Taub and E. Waller. 1,727,797; Sept. 10.
- Thrashing-machine construction. C. H. Turner. 1,708,286; Apr. 9.
- Threshold, Flexible. C. Beck. 1,700,152; Jan. 29.
- Throat block. M. W. Atwood. 1,706,132; Mar. 19.
- Throat, nose, and lip guard. J. J. Long. 1,715,241; May 28.
- Throttle and control, Booster. M. H. Roberts. 1,714,626; May 28.



- Throttle attachment, Locomotive-. L. Adkisson. 1,727,626; Sept. 10.
- Throttle, Auxiliary hand. H. A. Case. 1,716,814; June 11.
- Throttle, Balanced multiple. B. Smith. 1,718,388; June 25.
- Throttle-control device. L. F. Meunier. 1,704,399; Mar. 5.
- Throttle-controlling means. R. W. Gundersen and M. F. Krebs. 1,712,918; May 14.
- Throttle for locomotives, Multiple. G. F. Pippy. 1,710,948; Apr. 30.
- Throttle for locomotives, Multiple. G. F. Pippy. 1,718,376; June 25.
- Throttle valve for locomotives. W. C. Rehfuess. 1,717,262; June 11.
- Thumb protector, Husking-mitten. C. Hisek. 1,736,344; Nov. 19.
- Ticker attachment. W. A. Zwicke. 1,741,267; Dec. 31.
- Ticket and label for advertising purposes. A. J. Henderson and E. H. Clifton. 1,700,050; Jan. 22.
- Ticket-auditing device, Merchandise-. M. Klein. 1,718,212-13; June 25.
- Ticket book. J. W. Beck. 1,716,290; June 4.
- Ticket case. J. L. Hammett. 1,701,565; Feb. 12.
- Ticket, Commercial and admission. D. G. Rice. 1,713,241; May 14.
- Ticket-delivering apparatus, Railway-. E. Marchthal. 1,737,932; Dec. 3.
- Ticket-dispensing machine. C. G. Dimitrakis. 1,713,748; May 21.
- Ticket-dispensing machine. F. Simone. 1,707,144; Mar. 26.
- Ticket-feeding apparatus. V. F. Slezak. 1,709,412; Apr. 16.
- Ticket-issuing machine. J. S. Arcus and R. E. Beaubien. 1,706,374; Mar. 19.
- Ticket-issuing machine. J. H. McDonald. 1,716,381; June 11.
- Ticket, Pin. M. H. Tarr. 1,725,603; Aug. 20.
- Ticket printing or marking and issuing machine. A. W. Wood. 1,720,254; July 9.
- Ticket-validating device. R. H. Helsel. 1,738,244; Dec. 3.
- Ticket-vending machine. J. Hulin. 1,736,710; Nov. 19.
- Ticking or similar article of manufacture, Mattress. R. Binkovitz. Des. 77,806-7; Feb. 26.
- Tide indicator. E. R. Hand. 1,731,377; Oct. 15.
- Tie: *See*—
- Frequency-converter tie. Ski tie.
- Railroad tie. Spring tie.
- Railway tie. Wall tie.
- Tie. C. Lofman. 1,732,652; Oct. 22.
- Tie. E. J. Lukes. 1,714,386; May 21.
- Tie. S. Sherman. 1,720,009; July 9.
- Tie-adjusting catch pin. H. M. Katz. 1,730,149; Oct. 1.
- Tie and rail clamp therefor, Metallic railroad. J. L. Cartmell. 1,703,475; Feb. 26.
- Tie and rail seat, Railway. J. E. Springer. 1,713,454; May 14.
- Tie back for curtains and drapes. J. H. Boye. 1,741,182; Dec. 31.
- Tie clip. H. L. Cummins. 1,724,642; Aug. 13.
- Tie for binding spaced walls together. V. H. Wigglesworth. 1,699,554; Jan. 22.
- Tie for concrete forms. D. H. Hayden. 1,733,686; Oct. 29.
- Tie for constructing concrete forms. H. H. Toogood. 1,729,807; Oct. 1.
- Tie for plastic furnace linings, Flexible. S. C. Gilbert. 1,736,704; Nov. 19.
- Tie hanger. I. C. Levy. 1,722,669; July 30.
- Tie hitch. S. G. Schulz. 1,721,356; July 16.
- Tie lining. P. Paley. 1,729,452; Sept. 24.
- Tie plate. C. E. Anderson. 1,719,822; July 9.
- Tie plate. B. F. Beckman. 1,737,559; Dec. 3.
- Tie plate. R. E. Bell. 1,719,644; July 2.
- Tie plate. A. Debenham and D. Gonta. 1,701,102; Feb. 5.
- Tie plate. F. Duncan. 1,704,594; Mar. 5.
- Tie plate and rail brace, Combined. R. R. Metheny. 1,706,243; Mar. 19.
- Tie plate and rail fastener. J. A. McGrew. 1,709,731; Apr. 16.
- Tie plate and rail fastener. J. A. McGrew. 1,710,587; Apr. 23.
- Tie plate and rail lamp, Adjustable. A. J. Shurtz. 1,729,134; Sept. 24.
- Tie-plate flanges, Bending press for. M. Ovestrud. 1,735,785; Nov. 12.
- Tie plate, Rail-clamp. J. O. Gilmore. 1,727,640; Sept. 10.
- Tie press. C. K. Chamberlain. 1,721,656; July 23.
- Tie rack. R. L. Bee. 1,727,269; Sept. 3.
- Tie removing and replacing machine. J. F. Robb. 1,732,568; Oct. 22.
- Tie rod. J. B. Hawley, Jr. Re17,452; Oct. 8.
- Tie stick for handling live wires. H. W. Bodendieck and M. T. Tipsord. 1,715,636; June 4.
- Tie structure, Four-in-hand. D. C. Minton. 1,737,322; Nov. 26.
- Tightening screw bolts, Device for. W. Stever. 1,718,669; June 25.
- Tile. P. C. C. Friderichsen. 1,716,224; June 4.
- Tile. L. G. Marmion. Des. 77,649; Feb. 5.
- Tile and brick, Manufacture of. W. Hogsenson. 1,728,934; Sept. 24.
- Tile, Apparatus for manufacturing hollow. R. A. Shipley. 1,728,373; Sept. 17.
- Tile, Attaching means for. E. S. Denk. 1,728,231; Sept. 17.
- Tile block and wall construction. H. L. Strand. 1,734,749; Nov. 5.
- Tile, Building. J. A. O'Donnell. 1,700,542; Jan. 29.
- Tile, Building. J. L. Tremper. 1,720,306; July 9.
- Tile-enamel process. G. W. Krick. 1,724,206; Aug. 13.
- Tile-fettling machine. C. W. Clifford. 1,727,863; Sept. 10.
- Tile, Forming roofing. E. W. Ekstrand. 1,713,754; May 21.
- Tile lock. C. T. Carlson. 1,738,283; Dec. 3.
- Tile, Locking. T. Rota. 1,722,682; July 30.
- Tile-making machine. C. E. and C. M. Mumma. 1,714,614; May 28.
- Tile, Metal. J. C. Devol. 1,716,626; June 11.
- Tile, Metal-faced. I. Evans. 1,710,413; Apr. 23.
- Tile, Paving. P. Nattkamper. 1,707,409; Apr. 2.
- Tile slab. G. K. Thompson. 1,741,745; Dec. 31.
- Tile, stoneware article, and the like. L. E. Barringer. 1,721,367; July 16.
- Tile, Veneer. H. Grimes and H. B. Stover. 1,703,998; Mar. 5.
- Tile, Wall and floor. W. McCoy. 1,702,912; Feb. 19.
- Tiled construction. O. E. Grisby. 1,738,091; Jan. 8.
- Tiling, Finishing sheet-metal. G. L. Bennett. 1,739,056; Dec. 10.
- Tiling, Metallic wall. G. L. Bennett. 1,724,901; Aug. 20.
- Tiles, Firing. J. P. Johnson. 1,739,151; Dec. 10.
- Tiles, Manufacture of. A. Rey. 1,717,706; June 11.
- Tiles, Method of and apparatus for manufacturing. E. H. White. 1,727,580; Sept. 10.
- Tiles, plates, or the like, Forming ceramic. J. Lampherhoff. 1,719,772; July 2.
- Tillage implement. C. T. Ray. 1,708,633; Apr. 9.
- Tillage implement. F. S. Shields. 1,729,969; Oct. 1.
- Tiller. T. W. Hicks. 1,706,573; Mar. 26.
- Tilting-body lock. C. G. Clement. 1,716,877; June 11.
- Tilting device for harvester platforms. W. Webber. 1,721,680; July 23.
- Tilting device for troughs mounted on rollers for dough-kneading machines. F. Aeschbach. 1,720,990; July 16.
- Timber and other materials, Preserving. A. M. Kobiolke. 1,713,388; May 14.
- Timber, Impregnating. T. W. Smith. 1,731,398; Oct. 15.
- Timbers, Impregnating. T. W. Smith. 1,731,443; Oct. 15.
- Time and rhythm, Device for representing. E. L. Buxton. 1,704,551; Mar. 5.
- Time and zone metering, Elapsed-. A. J. Ray. 1,720,001; July 9.
- Time-control mechanism for electric stoves. C. C. Armstrong. 1,739,937; Dec. 17.
- Time-controlled apparatus. R. W. Lovering. 1,705,985; Mar. 19.
- Time-controlled mechanism. C. M. Crook and A. E. Long. 1,725,569; Aug. 20.
- Time delay under voltage release. B. E. Getchell. 1,722,741; July 30.
- Time-element device and motor-control system employing the same. G. B. Starie. 1,720,613; July 9.
- Time-element relay and control system employing the same, Automatic. J. E. Brobst. 1,718,523; June 25.
- Time intervals, Arrangement for establishing. I. W. Green. 1,728,239; Sept. 17.
- Time-limit device. L. S. Walle and H. W. Brown. 1,724,863; Aug. 13.
- Time lock. E. M. Benham. 1,722,070-1; July 23.
- Time-measuring device. W. T. Powell. 1,726,163; Aug. 27.
- Timepiece. G. T. Summers. 1,715,521; June 4.
- Timepiece hand. J. Streng. Des. 78,664; May 28.
- Timepiece hand. J. Streng. Des. 79,612; Oct. 15.
- Timepiece hand. J. Streng. Des. 79,860-1; Nov. 5.
- Timepiece, Universal. N. Giusto. 1,732,934; Oct. 22.
- Time recorder. C. M. Crook. 1,719,000; July 2.
- Time recorder. E. G. Streckfuss. 1,731,550; Oct. 15.
- Time recorder, Automatic off-switch. C. E. Larrabee and L. S. Harrison. 1,734,495; Nov. 5.
- Time recorder for locks. D. R. Lovejoy. 1,710,228; Apr. 23.
- Time recorder, Workman's. R. D. Sawtell. 1,738,928; Dec. 10.
- Time-recording system, Electrical. F. E. Goeckler. 1,713,276; May 14.
- Time-reinforcing means. C. Christiansen. 1,723,467; Aug. 6.
- Time register. R. J. Anderson. 1,698,208; Jan. 8.
- Time regulator for sprinkling systems, Automatic. C. W. Stewart and F. R. Bate. 1,704,374; Mar. 5.
- Time station indicator. R. Guyot. 1,698,303; Jan. 8.
- Time switch. W. Luczak. 1,710,367; Apr. 23.
- Time switch. F. Lux. 1,735,540; Nov. 12.
- Time switch. C. M. Pedcock. 1,706,410; Mar. 26.
- Time switch. M. H. Rodrigues. 1,710,111; Apr. 23.
- Time switch. H. Sanner. 1,711,312; May 7.
- Time switch, Electric. L. E. Chance. 1,704,459; Mar. 5.
- Time switch, Electric. G. H. Hart. 1,708,619; Apr. 9.
- Time switch, Electrical. S. W. Neldner. 1,703,590; Feb. 26.
- Time-switch mechanism. F. Sauter. 1,723,890; Aug. 6.
- Timer and distributor, Combined. H. R. Patterson and C. F. Gilchrist. 1,703,319; Feb. 26.
- Timer, Automatic spark. C. L. Stokes. 1,705,316; Mar. 12.
- Timer cable and case. W. B. Thomas. 1,709,443; Apr. 16.
- Timer for internal-combustion engines. J. Drahonovsky. 1,721,008; July 16.



- Timer with ruffled control, Actuating. R. D. Smith. 1,705,458; Mar. 12.  
 Timing and distributing device. D. Shay. 1,713,883; May 21.  
 Timing and reversing mechanism. J. C. Hanna. 1,737,010; Nov. 26.  
 Timing apparatus. J. S. Streeter. 1,731,182; Oct. 8.  
 Timing device. W. H. and E. F. Rodefeld. 1,698,893; Jan. 15.  
 Timing device, Electrical. F. E. Pendleton. 1,731,436; Oct. 15.  
 Timing gauge, Engine. C. Muzyn. 1,737,726; Dec. 3.  
 Timing mechanism. W. L. Bodman. 1,708,463; Apr. 9.  
 Timing mechanism. H. Huthmacher. 1,735,762; Nov. 12.  
 Timing mechanism. H. E. Smith. 1,705,271; Mar. 12.  
 Timing mechanism for veneer trimmers. T. Robinson. 1,727,307; Sept. 3.  
 Timing the use of electrical circuits. J. L. Boynton. 1,712,488; May 14.  
 Tin and its associated metals from alloys, mechanical mixtures, and ores, Recovery of. F. Bischitzky. 1,737,140; Nov. 26.  
 Tin and other containers, Hermetically-sealed. C. Forward. 1,715,161; May 28.  
 Tin and similar functioning metals from materials containing same, Recovery of. H. V. Welch. 1,729,196; Sept. 24.  
 Tin-cutting device. E. E. Oller. 1,730,474; Oct. 8.  
 Tin opener. M. Patermann. 1,709,736; Apr. 16.  
 Tin openers, Method and apparatus for manufacturing. F. Bauer. 1,715,812; June 4.  
 Tin ores into the form of pieces, Converting. P. Haedrich and O. Kippe. 1,726,066; Aug. 27.  
 Tin-plate-cleaning machine. C. L. Inglefield and H. H. Giles. 1,739,593; Dec. 17.  
 Tin-plate-spotting machine. C. E. McManus. 1,740,697; Dec. 24.  
 Tinning apparatus. R. E. Zimmerman. 1,712,413; May 7.  
 Tinning bearing shells and the like. V. Skillman. 1,741,204; Dec. 31.  
 Tinsel package. B. E. Franke. 1,725,449; Aug. 20.  
 Tints on vegetable fiber, Production of fast. F. Straub. 1,704,637; Mar. 5.  
 Tip. W. A. Villmer. 1,720,806; July 16.  
 Tip for cutting torches. G. C. Quelch. 1,731,265; Oct. 15.  
 Tipping apparatus for wagons and the like. A. W. Biles. 1,700,693; Jan. 29.  
 Tipping device for vehicles. O. Ballert. 1,705,892; Mar. 19.  
 Tire. L. Alter. Des. 78,001; Mar. 19.  
 Tire. F. Fellowes. Des. 78,459; May 7.  
 Tire. W. E. Greer. Des. 77,690; Feb. 12.  
 Tire. R. P. Harvey. Des. 77,832; Feb. 26.  
 Tire. S. Holm. Des. 77,411; Jan. 8.  
 Tire. H. C. Hower. Des. 80,227; Dec. 31.  
 Tire. H. C. Hower. 1,726,026; Aug. 27.  
 Tire. R. W. Hutchens. Des. 78,393; Apr. 30.  
 Tire. P. W. Litchfield. Des. 78,579; May 21.  
 Tire. J. Martin. Des. 78,694; June 4.  
 Tire. E. S. Moulton. 1,739,370; Dec. 10.  
 Tire. H. B. Savage. Des. 78,537; May 14.  
 Tire. W. E. Shively. Des. 78,414; Apr. 30.  
 Tire. W. Stephens. Des. 77,440; Jan. 8.  
 Tire. W. C. Tyler. Des. 78,700; June 4.  
 Tire. W. C. Tyler. Des. 79,271; Aug. 20.  
 Tire. E. A. Wullenweber. Des. 78,245; Apr. 9.  
 Tire alarm. V. E. Rouch. 1,734,348; Nov. 5.  
 Tire and making same. E. Hopkinson. 1,707,014; Mar. 26.  
 Tire and making the same, Pneumatic. O. J. Kuhlke. 1,731,247; Oct. 15.  
 Tire and manufacturing the same, Pneumatic. J. R. Gammeter. 1,737,415; Nov. 26.  
 Tire and rim construction, Pneumatic. A. H. Shoemaker. Re17,461; Oct. 15.  
 Tire and similar article, Solid vehicle. A. Brill. 1,732,671; Oct. 22.  
 Tire armor, Pneumatic. I. Block. 1,733,681; Oct. 29.  
 Tire, Automobile. H. C. Hower. Des. 77,601; Jan. 29.  
 Tire, Automobile. H. C. Hower. Des. 79,685-6; Oct. 22.  
 Tire, Automobile. A. E. Jennings. Des. 79,820; Nov. 5.  
 Tire, Automobile. N. La Jone. Des. 77,644; Feb. 5.  
 Tire, Automobile. N. La Jone. Des. 78,980; July 16.  
 Tire, Automobile. B. Omoto. Des. 79,528; Oct. 1.  
 Tire bands, Making pneumatic. J. R. Gammeter. 1,733,405; Oct. 29.  
 Tire base, Cushion-. H. W. Kranz. 1,702,386; Feb. 19.  
 Tire-bead-building machine. F. B. Pfeiffer and J. W. White. 1,738,018; Dec. 3.  
 Tire bead-flipping machine, Clincher-. E. Hutchens. 1,712,618; May 14.  
 Tire-bead-reinforcing element. A. C. Hopkins. 1,713,871; May 21.  
 Tire-bead-reinforcing element. R. C. Pierce. 1,703,593; Feb. 26.  
 Tire beads, Apparatus for manufacture of. S. W. Alderfer. 1,727,090; Sept. 3.  
 Tire-building bands, Making. J. R. Gammeter. 1,704,186; Mar. 5.  
 Tire-building core. H. A. Denmire. 1,732,931; Oct. 22.  
 Tire-building core. B. De Mattia. 1,717,437; June 18.  
 Tire-building drum, Collapsible. C. B. Hudson. 1,731,817; Oct. 15.  
 Tire-building drum, Collapsible. T. A. Miller. 1,732,194; Oct. 15.  
 Tire-building form, Collapsible. F. L. Johnson. 1,730,213; Oct. 1.  
 Tire-building machine. J. I. Haase. 1,735,680; Nov. 12.  
 Tire-building machine. R. E. Jenkinson. 1,705,219; Mar. 12.  
 Tire-building machine. P. W. Lehman. 1,737,116; Nov. 26.  
 Tire-building machine. T. Midgley. 1,727,405; Sept. 10.  
 Tire-building machine. W. C. Stevens. 1,723,387; Aug. 6.  
 Tire-building machine. G. F. Wikle. 1,711,072-4; Apr. 30.  
 Tire-building machine. G. F. Wikle. 1,714,832; May 28.  
 Tire-building machine. G. F. Wikle. 1,734,242; Nov. 5.  
 Tire-building machine. G. F. Wikle. 1,740,635; Dec. 24.  
 Tire-building machines, Fabric spreader for. G. F. Wikle. 1,727,423; Sept. 10.  
 Tire building machine, Flat-band-. W. C. Stevens. 1,738,503; Dec. 3.  
 Tire carcasses, Building. J. A. Strum. 1,734,835; Nov. 5.  
 Tire carcasses, Method and apparatus for building band. T. P. Little and F. Irrgang. 1,723,565; Aug. 6.  
 Tire carrier. S. C. Barnes. 1,699,518; Jan. 22.  
 Tire carrier. O. C. Bornholt. 1,732,877; Oct. 22.  
 Tire carrier. T. G. Bounjem. 1,696,997; Jan. 1.  
 Tire carrier. S. C. Fournet. 1,713,896; May 21.  
 Tire carrier. C. H. Nehls. 1,733,357; Oct. 29.  
 Tire carrier. L. G. Recchia. 1,731,204; Oct. 8.  
 Tire carrier. F. A. Smith. 1,733,318; Oct. 29.  
 Tire carrier. J. H. Wagenhorst. 1,733,924; Oct. 29.  
 Tire carrier. C. F. Wasserfallen. 1,713,311; May 14.  
 Tire carrier and rim expanding and contracting device, Spare. J. E. Smith. 1,730,789; Oct. 8.  
 Tire carrier and supporting means therefor. A. H. Green. 1,705,184; Mar. 12.  
 Tire carrier for automobiles. J. H. Wagenhorst. 1,712,127; May 7.  
 Tire carrier, Ring-type. F. A. Smith. 1,733,319; Oct. 29.  
 Tire carrier, Spare-. V. Buerger. 1,730,121; Oct. 1.  
 Tire carrier, Spare-. W. P. Hammond. 1,720,415; July 9.  
 Tire carrier, Spare-. F. T. Root. 1,733,363; Oct. 29.  
 Tire carriers, Theftproof device for. J. Berg. 1,707,622; Apr. 2.  
 Tire casing. J. I. Freeman and L. J. Peterson. 1,709,124; Apr. 16.  
 Tire casing. C. M. Sloman. 1,719,000; July 2.  
 Tire casing and its method of manufacture. A. E. Jury. 1,699,470; Jan. 15.  
 Tire casing, Pneumatic-. G. F. Wikle. 1,734,241; Nov. 5.  
 Tire casings, Apparatus for and process of making. H. I. Morris. 1,735,351; Nov. 12.  
 Tire casings, Apparatus for the manufacture of. H. A. Denmire. 1,723,968; Aug. 6.  
 Tire casings, Machine and method for assembling curing bags in. A. O. Abbott, Jr. 1,703,918; Mar. 5.  
 Tire casings, Making pneumatic. B. Darrow. 1,732,793; Oct. 22.  
 Tire casings, Manufacture of. E. Hopkinson. 1,713,658; May 21.  
 Tire casings, Manufacture of pneumatic. P. W. Lehman. 1,723,562-3; Aug. 6.  
 Tire-chain-applying device. J. W. Woodling and J. W. McFayden. 1,713,360; May 14.  
 Tire-chain lock. F. O. Carlson. 1,716,113; June 4.  
 Tire-change device, Quick-. L. L. Butler. 1,711,875; May 7.  
 Tire-changing mechanism. G. E. Hazard. 1,722,913; July 30.  
 Tire compartment, Spare-. W. Boehm. 1,713,367; May 14.  
 Tire construction. E. E. Dearth. 1,727,537; Sept. 10.  
 Tire cord, Making. K. B. Cook and L. P. Gervais. 1,739,481; Dec. 10.  
 Tire cover. P. M. Lockwood. 1,718,969; July 2.  
 Tire cover. J. G. Sutherland. 1,712,590; May 14.  
 Tire cover and tool box, Combined. M. H. Shelton. 1,715,718-19; June 4.  
 Tire, Cushion. M. C. Overman. 1,723,435; Aug. 6.  
 Tire-deflation alarm, Automobile. L. P. Laro. 1,729,619; Oct. 1.  
 Tire-deflation indicator, Pneumatic-. F. F. Burden. 1,711,108; Apr. 30.  
 Tire deflation, Mechanism for indicating. T. M. Eynon. 1,714,501; May 28.  
 Tire-deflation switch. B. C. S. Jensen. 1,736,534; Nov. 19.  
 Tire dressing or finish. J. S. Motter. 1,714,919; May 28.  
 Tire, Emergency. P. Delaney. 1,721,006; July 16.  
 Tire-fabric construction. R. D. Evans. 1,708,668; Apr. 9.  
 Tire filer. J. H. Dalbey. 1,714,710; May 28.  
 Tire-filling connection, Automatic. C. F. Larzelere. 1,721,518; July 23.  
 Tire-finishing machine. E. D. Putt. 1,711,473; Apr. 30.  
 Tire-finishing machine. W. C. Stevens. 1,703,832; Feb. 26.  
 Tire for car wheels and scraper therefor, Ice-cutting. R. K. Tennant. 1,738,404; Dec. 3.  
 Tire for vehicle wheels, Solid-rubber band. T. H. Rushton. 1,731,870; Oct. 15.  
 Tire for vehicles. B. Corona. 1,699,225; Jan. 15.  
 Tire for vehicles, Emergency. C. Gerben. 1,733,959; Oct. 29.  
 Tire-forming apparatus. J. R. Gammeter. 1,702,112; Feb. 12.  
 Tire-forming material. H. I. Morris. 1,727,839; Sept. 10.  
 Tire gauge. C. H. Deren. 1,701,228; Feb. 5.  
 Tire gauge. C. H. Deren. 1,724,567; Aug. 13.



- Tire gauge. H. N. Thune. 1,722,345; July 30.  
 Tire gauge and filling valve, Combined. A. S. Marchus. 1,715,463; June 4.  
 Tire gauge, Automatic. J. Madarasz. 1,727,474; Sept. 10.  
 Tire-handling machine. D. T. Blackmon. 1,697,708; Jan. 1.  
 Tire holders and the like and making the same, Structure for. J. F. Harley. 1,714,023; May 21.  
 Tire, Hub. S. C. Hatfield. 1,702,081; Feb. 12.  
 Tire inflator. R. A. Gray. 1,713,899; May 21.  
 Tire inflator. D. H. Spicer. 1,708,637; Apr. 9.  
 Tire-inflating air-pressure controller. M. J. McAbeny. 1,698,956; Jan. 15.  
 Tire-inflating apparatus. E. M. Morley. 1,736,274; Nov. 19.  
 Tire-inflating apparatus. H. E. Smith. 1,699,378; Jan. 15.  
 Tire-inflation-testing appliance. H. S. Crawford. 1,714,769; May 28.  
 Tire lifting, carrying, and lowering device. F. A. Zibelman. 1,723,320; Aug. 6.  
 Tire lock, Automobile. C. Prohaskey. 1,732,168; Oct. 15.  
 Tire lock, Spare. O. F. Spevak. 1,703,370; Feb. 26.  
 Tire lock, Spare. N. W. Trautner. 1,741,593; Dec. 31.  
 Tire-making machine. H. A. Denmire. 1,715,644; June 4.  
 Tire-making machine. H. I. Morris. 1,702,088; Feb. 12.  
 Tire-making machine. H. I. Morris. 1,716,652; June 11.  
 Tire-making machine. M. C. Scrote. 1,731,026-7; Oct. 8.  
 Tire-making machine. P. D. Thropp and L. A. Moreland. 1,721,842; July 23.  
 Tire-making machine, Cord-. F. S. Dickinson. 1,728,957; Sept. 24.  
 Tire-making machines, Tread-applying device for. M. C. Scrote. 1,728,511; Sept. 17.  
 Tire-mending apparatus. F. J. Sedlacek. 1,715,431; June 4.  
 Tire mold. A. Boerder. 1,735,916; Nov. 19.  
 Tire mold. H. M. Lambert. 1,733,064; Oct. 22.  
 Tire, Non-skid. E. Langdon. 1,702,639; Feb. 19.  
 Tire, Non-skid. T. Midgley. 1,740,616; Dec. 24.  
 Tire or similar article. R. W. Hutchens. Des. 80,230; Dec. 31.  
 Tire patch and making the same. R. B. Luce. 1,701,625; Feb. 12.  
 Tire-patch-cutting apparatus. A. R. and C. Hendry. 1,731,132; Oct. 8.  
 Tire patches, Making. P. E. Hawkinson. 1,697,955; Jan. 8.  
 Tire, Pneumatic. I. Goldberg. 1,711,382; Apr. 30.  
 Tire, Pneumatic. J. F. Palmer. 1,698,414; Jan. 8.  
 Tire protector. O. M. Judd. 1,730,733; Oct. 8.  
 Tire protector, Grip road. A. E. Courtadon. 1,696,903; Jan. 1.  
 Tire-protecting device. A. F. Masury and A. H. Leipert. 1,726,158; Aug. 27.  
 Tire remover. E. Freivolgel. 1,716,882; June 11.  
 Tire remover. H. Reichel. 1,699,335; Jan. 15.  
 Tire-removing appliance. G. E. Weaver and W. B. Mackintosh. 1,724,813; Aug. 13.  
 Tire. Renewable-tread cushion. R. Tannenbaum. 1,708,339; Apr. 9.  
 Tire-repair patch. C. Y. Malcomb. 1,716,648; June 11.  
 Tire-repair vulcanizing apparatus. J. Comber. 1,708,358; Apr. 9.  
 Tire, Resilient. A. A. Muench. 1,732,854; Oct. 22.  
 Tire, Resilient. G. A. Tillman. 1,727,141; Sept. 3.  
 Tire-resurfacing machine. J. Zimarik. 1,713,248; May 14.  
 Tire rim and chains therefor, Combined. G. Meyer. 1,714,720; May 28.  
 Tire-rim contracting and expanding machine, Split-. O. S. Pease. 1,723,559; Aug. 6.  
 Tire-rim-contracting device. S. H. Savage. 1,700,719; Jan. 29.  
 Tire-rim lock. V. Szymanski. 1,704,490; Mar. 5.  
 Tire-shoe expander. F. Tobin. 1,732,668; Oct. 22.  
 Tire, Spring. A. Vitenko. 1,710,524; Apr. 23.  
 Tire spreader. A. A. Grundmark. 1,713,488; May 14.  
 Tire spreader. G. E. Weaver and E. W. Kelley. 1,715,179; May 28.  
 Tire stand. C. J. and W. M. Doering. 1,725,181; Aug. 20.  
 Tire stand. E. J. Henle. 1,722,796; July 30.  
 Tire structure, Cushion. F. R. Klaus and F. H. Meyer. 1,730,576; Oct. 8.  
 Tire test gauge and the like, Resettable. F. G. Johnson. 1,713,283; May 14.  
 Tire-testing machine. E. Eger. 1,713,753; May 21.  
 Tire-testing machine. H. T. Kraft. 1,701,464; Feb. 5.  
 Tire tread. H. C. Hower. 1,701,482; Feb. 5.  
 Tire-trimming machine. J. I. Haase. 1,721,298; July 16.  
 Tire tube, Nonpneumatic. M. Boyko. 1,711,404; Apr. 30.  
 Tire tubes, Apparatus for making. P. W. Sanderson. 1,721,975; July 23.  
 Tire-valve dust cap. J. F. Engle. 1,711,837; May 7.  
 Tire, Vehicle. T. Graybill. Des. 77,546; Jan. 22.  
 Tire, Vehicle. R. Iredell. Des. 77,836; Feb. 26.  
 Tire, Vehicle. J. W. Walker. Des. 80,206; Dec. 24.  
 Tire, Vehicle. J. Walker. 1,707,104; Mar. 26.  
 Tire-vulcanizing apparatus. E. Fetter. 1,734,766; Nov. 5.  
 Tire-vulcanizing mold. J. W. Brundage. 1,718,631; June 25.  
 Tire wheel, Dual-. F. S. Davis. 1,739,127; Dec. 10.  
 Tire wheel structure, Dual-. F. H. Meyer and F. R. Klaus. 1,735,290; Nov. 12.  
 Tire with arched base, Cushion. A. A. Robb. 1,707,815; Apr. 2.  
 Tires, Attachment for pneumatic. J. Green. 1,728,825; Sept. 17.  
 Tires, Building clincher. M. A. Marquette. 1,730,583; Oct. 8.  
 Tires, Cushion frame for. W. J. Sheirs. 1,741,441; Dec. 31.  
 Tires, Demountable rim for pneumatic. R. N. Dolsen. 1,705,397; Mar. 12.  
 Tires, Device for manipulating. W. H. Welch. 1,720,615; July 9.  
 Tires, Forming drum. W. E. Swern. 1,741,208; Dec. 31.  
 Tires, Low-pressure alarm for. D. M. Harrington. 1,724,020; Aug. 13.  
 Tires, Manufacturing. C. L. Smith. 1,734,023; Oct. 29.  
 Tires, Marking. W. G. Lerch. 1,741,997; Dec. 31.  
 Tires. Metal-covered pneumatic. N. Gherassimoff. 1,709,718; Apr. 16.  
 Tires, Method of and apparatus for making. D. M. Sheldon. 1,713,927; May 21.  
 Tires, Method of and apparatus for manufacturing pneumatic. A. O. Abbott, Jr. 1,715,973; June 4.  
 Tires, Multiple-wire reinforcement for automobile. A. J. Michelin. 1,715,302; May 28.  
 Tires, Restraining the rebound of pneumatic. B. B. Holmes. 1,704,002; Mar. 5.  
 Titanium-containing pigments, Production of. F. G. C. Stephens, L. J. Anderson, and W. A. Cash. 1,714,408; May 21.  
 Titanium dioxide, Manufacture of. F. Doerinkel and L. Mehler. 1,738,765; Dec. 10.  
 Titanium hydroxide, Preparation of. J. Blumenfeld. Rel7,429-30; Sept. 10.  
 Titanium oxide from titaniferous iron ores, Producing. C. R. Whittemore. 1,699,173; Jan. 15.  
 Titanium oxide, Manufacture of. J. Blumenfeld. 1,707,248; Apr. 2.  
 Titanium tetrachloride, Production of. C. de Rehden. 1,707,257; Apr. 2.  
 Titration apparatus. J. E. S. Han. 1,723,853; Aug. 6.  
 Toaster. M. Bersted. Des. 80,071; Dec. 10.  
 Toaster. J. H. Cannon. 1,708,258; Apr. 9.  
 Toaster. G. E. Curtiss. Des. 78,504; May 14.  
 Toaster. L. F. Fisher. 1,739,831; Dec. 17.  
 Toaster. W. L. Pross, Jr. 1,708,522; Apr. 9.  
 Toaster. H. H. Schott. Des. 79,483; Sept. 24.  
 Toaster. C. E. Shields. Rel7,196; Jan. 15.  
 Toaster. E. M. Strader. 1,738,972; Dec. 10.  
 Toaster. A. A. Warner. 1,714,064; May 21.  
 Toaster. M. F. Wilson. 1,731,118; Oct. 8.  
 Toaster, Bread. F. E. Hummel and J. J. Moeth. 1,717,979; June 18.  
 Toaster, Bread. E. H. Smith. 1,720,451; July 9.  
 Toaster, Bread. C. P. Strite. 1,698,146; Jan. 8.  
 Toaster, Electric. J. F. Dirzuweit. 1,739,128; Dec. 10.  
 Toaster, Electric. H. Jolly. 1,722,224; July 23.  
 Toaster, Electric. R. B. Lincoln. 1,739,155; Dec. 10.  
 Toaster, Electric. A. J. Rubin. 1,697,024; Jan. 1.  
 Toaster, Electric. C. A. Schallis. Des. 78,717; June 11.  
 Toaster, Electric. F. J. Sprague. 1,706,259; Mar. 19.  
 Toaster, Electric. F. Thornton, Jr. 1,731,402; Oct. 15.  
 Toaster, Electric. G. F. Wells. Des. 77,997-8; Mar. 12.  
 Toaster, Electric bread. C. C. Armstrong. Des. 78,702; June 11.  
 Toaster, Electric bread. D. L. Chandler. 1,734,611; Nov. 5.  
 Toaster, Electric bread. E. S. Johnson. 1,714,027; May 21.  
 Toaster, Family bread. F. E. Hummel. 1,697,914; Jan. 8.  
 Toaster, Gas bread. M. A. Chartier. 1,698,933; Jan. 15.  
 Toaster or brollor, Extension. J. L. Bennett. 1,706,516; Mar. 26.  
 Toaster or similar article. L. Reichold. Des. 78,839; June 25.  
 Toaster or the like. A. G. Coutu. 1,697,384; Jan. 1.  
 Toaster, Oven. M. Murphy. 1,726,757; Sept. 3.  
 Toaster, Sandwich. J. V. Burke. 1,722,127; July 23.  
 Toaster, Sandwich. F. F. Forshee. 1,728,751; Sept. 17.  
 Toaster, Turning. C. B. Nelson. 1,724,217; Aug. 13.  
 Toasting apparatus. W. H. Ginder. 1,729,937; Oct. 1.  
 Toasting apparatus. B. Horowitz. 1,717,926; June 18.  
 Toasting device. C. P. Jaeger. 1,706,611; Mar. 26.  
 Toasting device. G. C. Matthews. 1,719,710; July 2.  
 Toasting machine. H. S. Morrison. 1,720,800; July 16.  
 Toasting machine or like device. M. Harrison. 1,731,742; Oct. 15.  
 Toasting or cooking apparatus. F. H. Chandler. 1,697,754; Jan. 1.  
 Tobacco, Apparatus for casing and preserving the natural color of leaf. R. Febles. 1,704,597; Mar. 5.  
 Tobacco, Artificially aging. T. H. Keller. 1,729,482; Sept. 24.  
 Tobacco can. F. M. Davis. 1,716,687; June 11.  
 Tobacco can. G. A. Gooch. 1,707,301; Apr. 2.  
 Tobacco can, Tear-open. J. F. Peters. 1,737,020; Nov. 26.  
 Tobacco, Curing. W. E. Lilienfeld. 1,731,018; Oct. 8.  
 Tobacco-feeding device. A. Bargeboer. 1,709,299; Apr. 16.  
 Tobacco heater. C. I. Gill. 1,728,053; Sept. 10.  
 Tobacco-leaf-stem-cutting machine. J. H. Van Sickels. 1,726,636; Sept. 3.  
 Tobacco moist, Apparatus for keeping. J. F. Ochsenreiter. 1,724,958; Aug. 20.  
 Tobacco pipe. T. W. Bigoney. 1,733,113; Oct. 29.



- Tobacco pipe. S. Fraiss. 1,703,729; Feb. 26.  
 Tobacco pipe. A. Freeman. 1,727,401; Sept. 10.  
 Tobacco pipe. T. E. Hansford. 1,706,781; Mar. 26.  
 Tobacco pipe. H. F. Samstag. 1,709,375; Apr. 16.  
 Tobacco pipe. F. Todisco. 1,707,033; Mar. 26.  
 Tobacco pipe. D. A. Wright. 1,710,850; Apr. 30.  
 Tobacco press. L. Pfeffer. 1,735,474; Nov. 12.  
 Tobacco press. W. H. Trowbridge. 1,700,388; Jan. 29.  
 Tobacco, Pressing and packing manufactured. H. P. Taylor. 1,740,126; Dec. 17.  
 Tobacco rack. N. W. Hurst. 1,704,609; Mar. 5.  
 Tobacco-smoking device. J. Paur. 1,719,721; July 2.  
 Tobacco stripper. W. T. Murphy. 1,710,376; Apr. 23.  
 Tobacco-stripping machines, Feeding tobacco leaves to. M. G. P. Phillips. 1,733,359; Oct. 29.  
 Tobacco-user's stand. J. E. Neahr. 1,727,113; Sept. 3.  
 Toboggan slide and toboggan. H. W. Selner. 1,702,091; Feb. 12.  
 Toe blank, Box-. J. C. Feagley. 1,735,383; Nov. 12.  
 Toe clip for ski binding. L. D. Gibson. 1,735,922; Nov. 19.  
 Toe guard. L. E. Dickson. 1,717,438; June 18.  
 Toe-molding machine. W. Kaut. 1,717,928; June 18.  
 Toe piece, Box-. A. J. Ryan. 1,734,531; Nov. 5.  
 Toe stiffeners, Making. E. P. Carr. 1,734,418; Nov. 5.  
 Toggle. E. B. Ayres. 1,703,760; Feb. 26.  
 Toggle. G. H. Capen. 1,729,153; Sept. 24.  
 Toggle. C. S. Morrison. 1,707,919; Apr. 2.  
 Toggle bolt. G. H. Anderson. 1,738,133; Dec. 3.  
 Toggle bolt. E. A. Porter. 1,733,693; Oct. 29.  
 Toggle coupling, Cable. C. H. Duffy. 1,710,149; Apr. 23.  
 Toggle drawing press. R. B. Treer. 1,729,658; Oct. 1.  
 Toggle switch. P. R. Forman. 1,718,040; June 18.  
 Toggle switch. O. H. Frank. 1,736,152; Nov. 19.  
 Toilet accessory. J. A. O'Neill. 1,715,860; June 4.  
 Toilet accessory. S. D. Rothstein. 1,699,992; Jan. 22.  
 Toilet and detergent composition. B. N. Sokoloff. 1,703,602; Feb. 26.  
 Toilet appliance. W. H. McKinney, jr. 1,701,114-15; Feb. 5.  
 Toilet article. R. W. Byster. 1,727,007; Sept. 3.  
 Toilet article. S. Spitz. 1,717,125; June 11.  
 Toilet bowl, Ventilated. C. J. Kaiser. 1,740,246; Dec. 17.  
 Toilet box or similar container. L. A. Danco. Des. 80,169; Dec. 24.  
 Toilet comb. E. L. H. Cosby. 1,702,197; Feb. 12.  
 Toilet fixture and support. R. W. Wallace. 1,730,547; Oct. 8.  
 Toilet implement, Combination. H. Barnowitz. 1,731,287; Oct. 15.  
 Toilet or traveling case. L. G. Stanley. 1,722,507; July 30.  
 Toilet or vanity case. J. W. Anderson. 1,714,751; May 28.  
 Toilet package. R. H. Van Sant. 1,723,099; Aug. 6.  
 Toilet seat. D. E. Justus. 1,739,001; Dec. 10.  
 Toilet seat. R. M. Kinnard. 1,720,129; July 9.  
 Toilet seat and making the same. B. C. Booth. 1,733,482; Oct. 29.  
 Toilet seat, Child's. F. C. Immele. 1,722,524; July 30.  
 Toilet-seat cover, Sanitary. T. L. Young. 1,702,070; Feb. 12.  
 Toilet seat, Junior. F. A. Bell and J. F. Love. 1,704,878; Mar. 12.  
 Toilet seats, Sanitary attachment for. O. R. Kuehne. 1,740,544; Dec. 24.  
 Toilet tank, Septic. T. Bennett. 1,719,419; July 2.  
 Toilet tank, Septic. T. Bennett, D. Sloane, and J. W. Fortenbaugh. 1,719,418; July 2.  
 Toilets, Attachment for. R. L. Wren. 1,726,417; Aug. 27.  
 Token. J. N. Lyles. Des. 79,195; Aug. 13.  
 Token control. E. T. Schmidt. 1,740,962; Dec. 24.  
 Toll-posting machine. H. A. Footorap. 1,729,771; Oct. 1.  
 Tone analyzer. M. A. Lissman. 1,713,844; May 21.  
 Tone arm. W. Casbon. 1,713,419; May 14.  
 Tone-developing unit. I. Kimball. 1,705,770; Mar. 19.  
 Tone-modifying attachment for phonographs. W. V. Dougherty. 1,737,788; Dec. 3.  
 Tone-modulating device. P. Santa Emma. 1,702,561; Feb. 19.  
 Tone modulator operating at varying rates of speed. J. H. Hammond, jr. 1,713,126; May 14.  
 Tongs. H. Alberg. 1,704,548; Mar. 5.  
 Tongs. W. M. Bolt. 1,725,613; Aug. 20.  
 Tongs. A. D. Ferguson. 1,702,822; Feb. 19.  
 Tongs. H. L. Zaeske. 1,718,398; June 25.  
 Tongs, Automatic gripping. E. C. Wilson and G. Woolway. 1,733,248; Oct. 29.  
 Tongs, Automatic make-up. J. M. Elliott. 1,713,694; May 21.  
 Tongs, Box. R. Conrad. 1,735,917; Nov. 19.  
 Tongs, Hog-catcher. G. H. Fordham. 1,709,615; Apr. 16.  
 Tongs, Klinker. C. L. Wilkowski. 1,730,706; Oct. 8.  
 Tongs, Lifting. A. Lutz. 1,731,674; Oct. 15.  
 Tongs, Lifting. F. G. Peck. 1,737,614; Dec. 3.  
 Tongs, Logging. S. Mathews. 1,732,976; Oct. 22.  
 Tongs or wrench, Oil-well. J. S. Turner. 1,718,719; June 25.  
 Tongs, Pipe. S. T. Smith. 1,730,096; Oct. 1.  
 Tongs provided with heatable irons, Curling. L. Spitzstein. 1,740,207; Dec. 17.  
 Tongs, Watermelon. W. F. Ulsh. 1,705,652; Mar. 19.  
 Tongs, Welder's. W. W. Jones. 1,727,986; Sept. 10.  
 Tongs, Welding. E. S. Lawson. 1,726,624; Sept. 3.  
 Tongue and bolster construction. R. H. Staley. 1,706,260; Mar. 19.  
 Tongue scraper. T. H. Chin. 1,741,143; Dec. 31.  
 Tonic, Hair. A. Christen. 1,732,120; Oct. 15.  
 Tonsil enucleator. B. D. La Force. 1,707,736; Apr. 2.  
 Tonsillotome. B. B. Montgomery. 1,699,801; Jan. 22.  
 Tool. W. Bartels. 1,700,213; Jan. 29.  
 Tool. V. C. Burgett. 1,714,764; Apr. 9.  
 Tool. R. E. Higgins. 1,708,760; Apr. 9.  
 Tool. J. C. Nelson. 1,724,509; Aug. 13.  
 Tool. J. E. Phelps. 1,721,788; July 23.  
 Tool. A. A. Proffitt. 1,701,633; Feb. 12.  
 Tool. M. J. Skortz. 1,729,689; Oct. 1.  
 Tool. H. Strand and B. De K. Jackson. 1,715,255; May 28.  
 Tool. E. W. Studwell. 1,724,435; Aug. 13.  
 Tool. E. P. Tournier and J. P. Wulff. 1,720,773; July 16.  
 Tool. P. Yeager. 1,714,337; May 21.  
 Tool, Abrading. G. Grifalconi. 1,710,308; Apr. 23.  
 Tool, Abrasive and polishing. K. M. Brown. 1,708,603; Apr. 9.  
 Tool, Agricultural. H. Hermanson. 1,711,847; May 7.  
 Tool, Air. L. W. Greve. 1,716,049; June 4.  
 Tool, Air-brake. J. M. Bell. 1,729,921; Oct. 1.  
 Tool and conductor, Portable. C. S. Weyandt. 1,704,849; Mar. 12.  
 Tool and detachable bit, Drilling. E. S. McCullough and A. B. Smith. 1,738,382; Dec. 3.  
 Tool and frame. W. J. Parsons. 1,732,613; Oct. 22.  
 Tool and making the same. S. B. Stine. 1,706,636; Mar. 26.  
 Tool, Abrading. C. J. Anderson. 1,721,266; July 16.  
 Tool, Arc-welding. J. H. Paterson. 1,731,502; Oct. 15.  
 Tool, Arc welding. M. Wells. 1,705,884; Mar. 19.  
 Tool arrangement. G. Sergeeff. 1,703,549; Feb. 26.  
 Tool attachment, Fishing-. C. T. Fleming. 1,737,305; Nov. 26.  
 Tool, Automobile. B. H. Abrahamson. 1,699,039; Jan. 15.  
 Tool, Automobile valve. L. E. Fix. 1,738,178; Dec. 3.  
 Tool, Battery-sealing-compound-removing. E. J. Alderman and C. N. Nickelson, jr. 1,732,076; Oct. 15.  
 Tool, Batt-inserting. A. S. Mitchell. 1,705,063-4; Mar. 12.  
 Tool, Bearing-aligning. I. R. Robison. 1,740,836; Dec. 24.  
 Tool, Bending. F. R. Fehlhaber. 1,736,585; Nov. 19.  
 Tool, Boiler-maker's. H. A. Lacerda. 1,707,124; Mar. 26.  
 Tool, Boring. D. R. Shiras. 1,716,984; June 11.  
 Tool, Boring. F. R. Stelzenmuller. 1,700,654; Jan. 29.  
 Tool, Bottle-capping. H. J. Leberherz. 1,707,201; Mar. 26.  
 Tool, Bottle-capping. H. J. and R. W. Leberherz. 1,704,295; Mar. 5.  
 Tool box. E. F. Hardt. 1,739,793; Dec. 17.  
 Tool box and workbench, Combined. G. W. Mack. 1,740,470; Dec. 24.  
 Tool, Brake-drum-truing. F. E. Burke. 1,733,578; Oct. 29.  
 Tool, Broaching. O. Lundell. 1,713,390; May 14.  
 Tool, Bushing-removing. M. Naggy and S. Sikorski. 1,728,248; Sept. 17.  
 Tool, Calking. W. A. Findley. 1,721,776; July 23.  
 Tool, Carbon-removing. L. J. Van Duzer. 1,706,050; Mar. 19.  
 Tool, Carpenter's. W. Chalmers and A. E. Clauson. 1,733,775; Oct. 29.  
 Tool carrier. F. C. Limbocker. 1,726,398; Aug. 27.  
 Tool, Cartridge-reloading. R. W. Bond. 1,718,107; June 18.  
 Tool, Chain. J. E. Hitchcock. 1,710,092; Apr. 23.  
 Tool, Chain. E. A. Olmstead. 1,732,654; Oct. 22.  
 Tool, Chain. H. St. Pierre. 1,710,554; Apr. 23.  
 Tool chuck. C. M. Cram. 1,734,614; Nov. 5.  
 Tool-chuck-supporting means, Reversible. L. R. Cordray. 1,697,414; Jan. 1.  
 Tool, Clamping. W. D. Henderson. 1,737,046; Nov. 26.  
 Tool, Clip-attaching. C. Jones. 1,725,537; Aug. 20.  
 Tool, Combination. J. I. Applestine. 1,699,266; Jan. 15.  
 Tool, Combination. A. I. Ciliske. 1,737,827; Dec. 3.  
 Tool, Combination. A. I. Ciliske. 1,739,440; Dec. 10.  
 Tool, Combination. H. H. A. Cordes. 1,720,720; July 16.  
 Tool, Combination. T. K. Dahl. 1,709,310; Apr. 16.  
 Tool, Combination. J. Fleischman. 1,725,263; Aug. 20.  
 Tool, Combination. C. Horix. 1,717,925; June 18.  
 Tool, Combination. A. N. Plante. 1,735,011; Nov. 12.  
 Tool, Combination fishing. R. C. Baker. 1,738,937; Dec. 10.  
 Tool, Compound. C. March. Re17,532; Dec. 17.  
 Tool, Compound. F. Visintainer. 1,719,575; July 2.  
 Tool constituting a combined poker and clinker remover, Firing. D. S. Cole. 1,722,953; July 30.  
 Tool, Convertible drilling. J. B. De Costa. 1,733,336; Oct. 29.  
 Tool, Corner-bead. M. F. Marks. 1,740,825; Dec. 24.  
 Tool, Cotter-pin. B. F. Thomas. 1,709,547; Apr. 16.  
 Tool, Counterboring. A. L. Christensen. 1,724,005; Aug. 13.  
 Tool coupling. C. S. Thomas. 1,705,038; Mar. 12.  
 Tool, Cutter. W. W. McCreedy. 1,700,205; Jan. 29.  
 Tool, Cutting. J. J. Eyre. 1,733,056; Oct. 22.  
 Tool, Cutting. A. Benson. 1,737,990; Dec. 3.  
 Tool, Cutting and flanging. J. Zang. 1,713,940; May 21.  
 Tool, Cylinder-lapping. H. J. Duernberger. 1,732,967; Oct. 22.  
 Tool, Cylindrical milling. W. F. Emerson. 1,739,956; Dec. 17.  
 Tool, Demountable-rim. J. McCrink. 1,728,943; Sept. 24.  
 Tool, Dental. R. W. Brown. 1,701,172; Feb. 5.



- Tool, Dental. W. B. Force. 1,712,469; May 7.  
 Tool, Dental. G. B. Hakens. 1,706,060; Mar. 19.  
 Tool-driving machine, Portable electric. P. J. Moore. 1,713,444; May 14.  
 Tool, Driving mechanism for machine. K. Tessky. 1,732,388; Oct. 22.  
 Tool, Earthworking. E. V. Briscoe and G. Bitter. 1,703,985; Mar. 5.  
 Tool, Electric. W. M. Moretti. 1,702,742; Feb. 19.  
 Tool, Electric testing. C. A. Dirksen. 1,738,287; Dec. 3.  
 Tool, Electrician's. H. M. Ocko. 1,699,805; Jan. 22.  
 Tool, Expanding. W. B. Templeton, jr., and J. Malicki. 1,727,914; Sept. 10.  
 Tool, Expansible boring. H. P. Tattersall. 1,733,209; Oct. 29.  
 Tool, Expansible work-engaging. E. Koppl. 1,732,563; Oct. 22.  
 Tool, Finishing. E. Ashton. 1,721,505; July 23.  
 Tool, Fire-department hand. C. E. McKeag. 1,703,856; Feb. 26.  
 Tool, Fishing. C. A. Brust, jr. 1,732,962; Oct. 22.  
 Tool, Fishing. J. F. Cailloux. 1,710,294; Apr. 23.  
 Tool, Fishing. W. E. Davison and W. B. Marshall. 1,721,003; July 16.  
 Tool, Fishing. W. W. Fry. 1,726,218; Aug. 27.  
 Tool, Fishing. H. S. Gore. 1,707,082; Mar. 26.  
 Tool, Fishing. R. I. Henderson. 1,721,880-1; July 23.  
 Tool, Fishing. J. H. Herman. 1,734,807; Nov. 5.  
 Tool, Fishing. J. L. Kimbrell. 1,731,070; Oct. 8.  
 Tool, Fishing. P. C. McCready. 1,727,074; Sept. 3.  
 Tool, Fishing. J. W. Miller. 1,727,245; Sept. 3.  
 Tool, Fishing. J. Rutherford. 1,720,058; July 9.  
 Tool, Fishing. G. M. Wilson and E. E. Pryor. 1,723,225; Aug. 6.  
 Tool, Flanging. S. Rosenbloom. 1,732,861; Oct. 22.  
 Tool, Flaring. A. C. Dobrick. 1,724,697; Aug. 13.  
 Tool, Fluid-actuated percussive. F. M. Slater. 1,714,051; May 21.  
 Tool, Fluid-operated. E. F. Terry, jr. 1,728,312; Sept. 17.  
 Tool, Fluid-operated reciprocating machine. J. L. and A. T. Holman. 1,700,052; Jan. 22.  
 Tool, Fluting. F. O. Hoagland. 1,704,192; Mar. 5.  
 Tool for applying and removing anchoring devices. A. Dinklage. 1,740,158; Dec. 17.  
 Tool for applying tags to articles. F. G. Purinton. 1,711,062; Apr. 30.  
 Tool for attaching eye sets. S. Marcus. 1,740,991; Dec. 24.  
 Tool for automobile body construction, Curling. O. J. Groehn. 1,703,618; Feb. 26.  
 Tool for automatic laths, Rotating generating. J. J. Thacher. 1,722,600; July 30.  
 Tool for bending metal clips. G. F. Davis. 1,722,279; July 30.  
 Tool for boiler flues, Beading. J. R. Furstenburg. 1,737,583; Dec. 3.  
 Tool for cutting plaster casts, Rotary hand. F. B. Pedley. 1,716,662; June 11.  
 Tool for cutting valve stems. J. J. Duffy and F. Hoffman. 1,715,825; June 4.  
 Tool for double-stage furnaces. O. H. Buse and R. R. Reid. 1,713,418; May 14.  
 Tool for drilling machines and the like, Automatic facing. A. M. Johnson. 1,732,558; Oct. 22.  
 Tool for engraving rollers applicable for the treatment of photographic films. A. Oswald. 1,730,942; Oct. 8.  
 Tool for facial treatment, Exercising or molding. A. M. Fisher. 1,723,024; Aug. 6.  
 Tool for grinding valve seats. F. G. Wacker and H. W. Zimmerman. 1,734,548; Nov. 5.  
 Tool for handling electric fuse tubes and the like. J. S. Thompson. 1,704,491; Mar. 5.  
 Tool for handling live wires, etc., Insulating safety. H. W. Bodendieck. 1,741,970; Dec. 31.  
 Tool for inserting and extracting pins and washers. S. D. Pompano. 1,699,856; Jan. 22.  
 Tool for keys, Stamping. G. Ringelhan. 1,734,881; Nov. 5.  
 Tool for lens-grinding apparatus. C. A. Adams. 1,706,723; Mar. 26.  
 Tool for making metallic plates for supporting artificial teeth. F. Cassullo. 1,704,654; Mar. 5.  
 Tool for oil and gas well appliances, Letting-in. P. H. Mack. 1,700,324; Jan. 29.  
 Tool for oil wells, Fishing. L. J. Black. 1,707,072; Mar. 26.  
 Tool for placing or removing piston-pin-retaining rings. W. W. Hartman. 1,740,590; Dec. 24.  
 Tool for punching and stamping sheet metal and the like, Press. F. Humphris. 1,725,584; Aug. 20.  
 Tool for reaming bushed bearings of engine connecting rods. F. G. Wacker. 1,721,892; July 23.  
 Tool for removing dandelions and similar weeds. T. C. Holmes. 1,725,191; Aug. 20.  
 Tool for removing hub bushings and the like. M. Naggy and S. Sikorski. 1,720,428; July 9.  
 Tool for removing wedge keys from key bolts. R. V. Northey. 1,733,164; Oct. 29.  
 Tool for sawing bushings and the like. C. V. Vande Carr and H. W. Norton. 1,720,022; July 9.  
 Tool for spreading battery terminals. M. S. Sargent. 1,719,311; July 2.  
 Tool for use in attaching eye sets in doll heads. J. H. Wilhelm. 1,736,562; Nov. 19.  
 Tool for use in attaching tongues and teeth in doll heads. S. Marcus. 1,706,628; Mar. 26.  
 Tool for use in deep wells, Outside fishing. E. H. Newkirk. 1,733,789; Dec. 10.  
 Tool for use in wells, Fishing. E. C. Krueger. 1,707,085; Mar. 26.  
 Tool for working in earth, rock, metal, wood, and the like, Rotating. O. Roifsen. 1,726,923; Sept. 3.  
 Tool, Garden. B. D. Adams. 1,718,939; July 2.  
 Tool, Garden. E. L. Dennis. 1,735,237; Nov. 12.  
 Tool, Garden. J. M. Joseph. 1,724,026; Aug. 13.  
 Tool, Gardening. H. Wagner. 1,739,489; Dec. 10.  
 Tool, Girdling. A. M. Smith. 1,702,801; Feb. 19.  
 Tool, Grinding. P. Hopf. 1,700,634; Jan. 29.  
 Tool, Gripping. S. P. Eriksson. 1,711,467; Apr. 30.  
 Tool, Groove-dressing. R. D. Streby. 1,722,023; July 23.  
 Tool, Grooving. F. W. Kammerer. 1,727,988; Sept. 10.  
 Tool, Grooving. H. D. Stevens. 1,741,797; Dec. 31.  
 Tool guard. H. Klehm. 1,699,593; Jan. 22.  
 Tool, Hammering. J. J. Carbone. 1,700,024; Jan. 22.  
 Tool, Hand. W. A. Bernard. 1,700,306; Jan. 29.  
 Tool, Hand. C. Bodmer. 1,721,065; July 16.  
 Tool, Hand. J. G. Elkin. 1,735,998; Nov. 19.  
 Tool, Hand. F. Nims. 1,735,210; Nov. 12.  
 Tool, Hand. G. W. Reams. 1,705,205; Mar. 12.  
 Tool, Hand binding. A. E. Sandoz. 1,728,631; Sept. 17.  
 Tool handle. E. R. T. Howard. 1,717,562; June 18.  
 Tool handle. H. B. Marsh. 1,724,609; Aug. 13.  
 Tool handle. M. Mendel. 1,708,278; Apr. 9.  
 Tool handle and switch, Combined. O. H. Pieper. 1,723,371; Aug. 6.  
 Tool-handle construction. L. S. Murphy. 1,726,190; Aug. 27.  
 Tool handle, Reinforced. J. Kukla. 1,711,319; Apr. 30.  
 Tool, Handled. C. W. Tillmanns. 1,701,467; Feb. 5.  
 Tool handles, Fastening means for. C. F. Griffith. 1,716,888; June 11.  
 Tool, Heated. R. E. Dowell. 1,706,740; Mar. 26.  
 Tool, Heel-seat-trimming. J. Whelan. 1,729,234; Sept. 24.  
 Tool holder and tool. B. H. Drees. 1,700,610; Jan. 29.  
 Tool holder, Removable. M. E. Tobler. 1,723,824; Aug. 6.  
 Tool, Hole-forming. E. M. Doherty and J. H. Jeffries. 1,721,007; July 16.  
 Tool house, Burglarproof. C. F. Helmcamp. 1,724,710; Aug. 13.  
 Tool, Household. J. C. Forster. 1,712,987; May 14.  
 Tool, Inside finishing. E. H. Newkirk. 1,712,898; May 14.  
 Tool, Jack. H. E. White. 1,738,679; Dec. 10.  
 Tool, Jar-cleaning. F. Polzon. 1,700,209; Jan. 29.  
 Tool jar, Oil-well-. E. S. Hartson. 1,717,972; June 18.  
 Tool joint. C. D. Bennett. 1,735,991; Nov. 19.  
 Tool, Kitchen. C. E. Anderson. 1,730,444; Oct. 8.  
 Tool, Kitchen. J. G. Funk. 1,697,974; Jan. 8.  
 Tool, Kitchen. A. M. Olson. 1,703,356; Feb. 26.  
 Tool, Knitting. E. Hagihara. 1,705,860; Mar. 19.  
 Tool, Leather-working. J. H. Dorval. 1,697,971; Jan. 8.  
 Tool, Machine. A. Brown. 1,700,974; Feb. 5.  
 Tool, Machine. M. I. Mathewson. 1,739,764; Dec. 17.  
 Tool, Machine. C. L. Mattison. 1,707,764; Apr. 2.  
 Tool, Machine. W. W. Potter. 1,733,426; Oct. 29.  
 Tool, Machine. G. C. Worrell. 1,723,639; Aug. 6.  
 Toolmaker's clamp. M. K. Parkhurst. 1,713,239; May 14.  
 Tool mechanism for gear-cutting machines. M. H. Johanson. 1,731,421; Oct. 15.  
 Tool, Metal-bending. J. R. Hilstad. 1,737,084; Nov. 26.  
 Tool, Metal-cutting. B. T. Mottinger and D. W. McDowell. 1,712,800; May 14.  
 Tool, Milling. E. Gray. 1,698,496; Jan. 8.  
 Tool, Modeling. A. Shuteleworth. 1,703,785; Feb. 26.  
 Tool, Mortising. J. A. Waller. 1,713,727; May 21.  
 Tool, Motor. E. M. Hoover. 1,698,952; Jan. 15.  
 Tool, Motor-operated assembling. C. B. Strand. 1,734,406; Nov. 5.  
 Tool-moving device for crank lathes. A. Dorin. 1,713,892; May 21.  
 Tool, Multiple-spindle machine. L. A. Sommer and F. H. Adams. 1,732,700; Oct. 22.  
 Tool, Offset overshot. G. J. Cormier. 1,738,819; Dec. 10.  
 Tool-operating appliance. R. Kienzl. 1,715,844; June 4.  
 Tool organization, Machine-. E. J. Kearney and J. B. Armtage. 1,718,562; June 25.  
 Tool, Painting and decorating. A. H. Dow. 1,713,750; May 21.  
 Tool, Pantographic machine. F. P. Habicht. 1,703,421; Feb. 26.  
 Tool, Paper-hanger's. L. G. Kozma. 1,715,038; May 28.  
 Tool, Percussion. G. B. Pickup. 1,713,551; May 21.  
 Tool, Percussive. E. G. Gartin. 1,703,841; Feb. 26.  
 Tool, Percussive. G. W. Hulshizer. 1,726,352; Aug. 27.  
 Tool, Percussive. F. A. Jimerson. 1,712,436; May 7.  
 Tool, Percussive. A. Müller. 1,708,451; Apr. 9.  
 Tool, Percussive. E. Penberthy. 1,700,418; Jan. 29.  
 Tool, Percussive. F. M. Slater. 1,719,143; July 2.  
 Tool, Percussive. W. R. Williams. 1,731,836; Oct. 15.  
 Tool, Percussive hand. S. J. Brown. 1,708,658; Apr. 9.  
 Tool, Picking. R. Y. and S. Kyser. 1,703,112; Feb. 26.  
 Tool, Pipe-beading. A. I. Fischer. 1,724,920; Aug. 20.  
 Tool, Pipe-bending. A. B. Allen. 1,712,414; May 7.  
 Tool, Pipe-bending. L. H. Church. 1,699,952; Jan. 22.  
 Tool, Pipe-bending. B. C. Loveridge. 1,712,573; May 14.  
 Tool, Plasterer's. J. A. Paquette. 1,726,119; Aug. 27.  
 Tool, Pneumatic. I. A. Hanssen. 1,737,419; Nov. 26.  
 Tool, Pneumatic. F. M. Slater. 1,713,784; May 21.



- Tool, Pneumatic. W. A. Smith. 1,716,469; June 11.  
Tool, Pneumatic. F. H. Thomas. 1,717,818; June 18.  
Tool, Pneumatic. F. L. O. Wadsworth. 1,739,338; Dec. 10.  
Tool, Pneumatic or like. S. D. Olsen. 1,717,999; June 18.  
Tool, Pneumatic-tube. J. Wahl and O. Melzer. 1,731,690; Oct. 15.  
Tool, Portable. S. D. Black and A. G. Decker. 1,699,870; Jan. 22.  
Tool, Portable. E. H. Shaff. 1,698,970; Jan. 15.  
Tool, Portable impact. F. Mickelson. 1,736,716; Nov. 19.  
Tool, Portable power-driven. O. P. Wodack and J. F. Haas. 1,708,345; Apr. 9.  
Tool, Portable power-driven rivet spinning and pressing. W. Stumpf. 1,702,750; Feb. 19.  
Tool, Portable power-driven tapping. R. A. Norling. 1,737,431; Nov. 26.  
Tool, Power-driven. J. F. Haas. 1,736,970; Nov. 26.  
Tool, Power-driven. S. E. Yannes. 1,721,612; July 23.  
Tool, Pressure-exerting. S. S. Colt. 1,732,259; Oct. 22.  
Tool, Pressure-fluid-operated. E. H. Shaff. 1,707,325; Apr. 2.  
Tool, Pressure-fluid-operated. E. H. Shaff and G. Briegel. 1,709,159; Apr. 16.  
Tool, Proportional. C. E. Gardner, sr., and J. D. and R. W. Gardner. 1,705,182; Mar. 12.  
Tool, Ratchet. O. C. Weber. 1,723,223; Aug. 6.  
Tool rack, Railway. P. M. Norton. 1,698,318; Jan. 8.  
Tool, Rail-handling. L. P. Chicoine and E. Sauvé. 1,732,804; Oct. 22.  
Tool, Railway-track-aligning. C. A. Goff. 1,739,453; Dec. 10.  
Tool, Ratchet. H. J. Harrold. 1,712,433; May 7.  
Tool, Reaming or boring. F. A. Litter. 1,706,929; Mar. 26.  
Tool, Reporting. C. D. Hellyer. 1,722,794; July 30.  
Tool retainer. J. M. Coffman. 1,732,836; Oct. 22.  
Tool retainer. G. C. Pearson. 1,719,079; July 2.  
Tool, Rim. W. N. Booth. 1,716,915; June 11.  
Tool, Rim. H. C. Kogelschatz. 1,740,099; Dec. 17.  
Tool, Rim. N. Lombard. 1,714,229; May 21.  
Tool, Rim. E. T. Rushton. 1,704,628; Mar. 5.  
Tool, Rim-collapsing. A. W. Woodward. 1,718,621; June 25.  
Tool, Rim-contracting. E. R. Jacobi and F. H. Le Jeune. 1,708,445; Apr. 9.  
Tool, Rim-contracting. D. J. Raymond. 1,712,169; May 7.  
Tool, Rim contracting and expanding. F. M. Ross. 1,736,465; Nov. 19.  
Tool, Rivet-removing. G. B. Lynch, G. L. Carroll, and A. Gumm. 1,742,040; Dec. 31.  
Tool, Road. N. O. Vincent. 1,733,841; Oct. 29.  
Tool, Rock-drilling. E. G. Gartin. 1,741,126; Dec. 24.  
Tool, Rock-drilling. R. S. Weiner. 1,707,649; Apr. 2.  
Tool, Rotary. J. S. Stull. 1,714,700; May 28.  
Tool, Rotary boring. F. L. O. Wadsworth. 1,708,288; Apr. 9.  
Tool, Rotary expansive. L. S. Campbell. 1,720,942; July 16.  
Tool, Rotary motor. J. J. N. Van Hamersveld. 1,713,310; May 14.  
Tool-rotating device for boring and drilling machines. Auxiliary. F. O. Hoagland. 1,735,398; Nov. 12.  
Tool, Saw-setting. N. Basta. 1,727,226; Sept. 3.  
Tool, Scaling. F. du P. Thomson. 1,727,915; Sept. 10.  
Tool, Scaling and drilling. G. M. Doull. 1,727,816; Sept. 10.  
Tool, Scraping. F. Teasdale. 1,704,376; Mar. 5.  
Tool, Shoe-ironing. W. A. Copeland. 1,738,285; Dec. 3.  
Tool slide. E. P. Bullard, jr. 1,715,896; June 4.  
Tool, Sliding-jaw. A. A. McGill. 1,717,725; June 18.  
Tool, Slotting. F. W. Roebbel. 1,714,570; May 28.  
Tool, Spark-plug. C. A. Burger. 1,713,373; May 14.  
Tool-spindle mounting. W. H. Chapman and P. H. Hutchinson. 1,697,046; Jan. 1.  
Tool, Splicing. W. J. Carpenter and J. Teague. 1,725,616; Aug. 20.  
Tool, Spotting. L. A. Faure. 1,715,496; June 4.  
Tool, Stemming, paring, and coring. O. C. Terrell. 1,698,111; Jan. 8.  
Tool stop for automatic screw machines. F. L. Cone. 1,716,303; June 4.  
Tool, Strap-cutting. S. W. Parson. Des. 78,652; May 28.  
Tool, Stud-aligning. J. R. Miller. 1,735,124; Nov. 12.  
Tool, Sucker-rod fishing. J. E. Reynolds, H. R. Lloyd, and R. W. Gunn. 1,720,692; July 16.  
Tool supports, Moving-machine. F. A. Parsons. 1,721,668; July 23.  
Tool switch, Electrically-heated hand. G. Eaton. 1,726,427; Aug. 27.  
Tool, Testing. R. J. Marek. 1,726,157; Aug. 27.  
Tool, Tie-wire inserting and crimping. J. W. Free. 1,709,908; Apr. 23.  
Tool, Tire. A. Hull. 1,706,528; Mar. 26.  
Tool, Tire. C. J. White. 1,741,801; Dec. 31.  
Tool, Tire-building. C. J. Merz. 1,734,337; Nov. 5.  
Tool, Tire-chain. J. J. Eyre. 1,725,626; Aug. 20.  
Tool, Tire-repair. T. J. Worrell and L. E. Clark. 1,708,346; Apr. 9.  
Tool, Tire-rim. H. W. Clark. 1,736,727; Nov. 19.  
Tool, Tire-rim. W. Connor. 1,725,567; Aug. 20.  
Tool, Tire-rim. L. H. Nicholson. 1,717,806; June 18.  
Tool, Tire-spreading. K. P. Hubbard. 1,718,959; July 2.  
Tool, Tire-working. M. Henderson. 1,698,883; Jan. 15.  
Tool, Transplanting. E. C. Beck. 1,726,207; Aug. 27.  
Tool, Trimming. J. J. Barry. 1,722,450; July 30.  
Tool, Trimming. R. Reed. 1,697,088; Jan. 1.  
Tool, Valve. H. R. Curtis. 1,734,420; Nov. 5.  
Tool, Valve. C. A. Davis. Re17,313; June 4.  
Tool, Valve. J. F. Seth. 1,699,123; Jan. 15.  
Tool, Valve-facing. A. C. Savidge. 1,707,670; Apr. 2.  
Tool, Valve-facing. H. A. Berkman. 1,736,739; Nov. 19.  
Tool, Valve-grinding. G. S. Iskhan. 1,722,577; July 30.  
Tool, Valve-seating. H. C. Fuhrman. 1,715,546; June 4.  
Tool, Valve-seating. J. W. Troha. 1,731,032; Oct. 8.  
Tool, Valve-spring-lifting. F. S. Jochumsen. 1,726,958; Sept. 3.  
Tool, Weed-extracting. W. G. Drummond. 1,708,382; Apr. 9.  
Tool, Weeding. T. H. Bauer. 1,710,039; Apr. 23.  
Tool, Weeding. H. Stone. 1,716,841; June 11.  
Tool, Welding. C. J. Holslag. 1,719,113; July 2.  
Tool, Well-drilling. B. K. Appleman. 1,740,915; Dec. 24.  
Tool, Well-drilling. J. Mosley. 1,736,504; Nov. 19.  
Tool, Well-drilling. R. O. Pickin. 1,725,298; Aug. 20.  
Tool, Well-drilling. M. Schwafel. 1,716,741; June 11.  
Tool, Well fishing. V. A. Asplund. 1,717,300; June 11.  
Tool, Well fishing. J. L. Cameron. 1,728,781; Sept. 17.  
Tool, Wire-handling. J. A. Lindsay. 1,726,746; Sept. 3.  
Tool, Wire pulling and twisting. P. Beghetti. 1,698,688; Jan. 8.  
Tool, Wire-rope-splicing. T. J. A. Shepherd. 1,726,165; Aug. 27.  
Tool, Wire-stretching. J. O. Smith. 1,739,658; Dec. 17.  
Tool, Wire-stripping. R. J. Montgomery. 1,730,980; Oct. 8.  
Tool, Wire-tying. A. C. Hopkins. 1,708,981; Apr. 9.  
Tools and other small steel or steel alloy articles, Apparatus for the treatment of. C. J. Grist. 1,731,858; Oct. 15.  
Tools and the like, Determining the wear of diamond-pointed. F. E. and C. J. Koebel. 1,739,553; Dec. 17.  
Tools and the like, Producing a hard surface on. F. L. Scott. 1,733,241; Oct. 29.  
Tools and work pieces, Adjustable setting-up piece for. B. Buxbaum. 1,716,762; June 11.  
Tools, Attachment for percussive. H. Marston. 1,730,822; Oct. 8.  
Tools, Blank-transferring device for machine. K. Tessky. 1,737,208; Nov. 26.  
Tools, Centering device for pipe-working. I. W. Nonneman. 1,720,743; July 16.  
Tools for filing, sawing, and similar machines and machine tools, Device for putting under tension the. H. Thiel. 1,723,389; Aug. 6.  
Tools from hard-metal alloys produced by sintering, Making. K. Schröter. 1,728,909; Sept. 17.  
Tools, Handle member for. J. Sudek, jr. 1,737,275; Nov. 26.  
Tools having numerous fine cutting edges, Process and apparatus for recutting or sharpening all. W. B. Robe. 1,721,414; July 16.  
Tools, Making pointing. C. G. Englund. 1,713,076; May 14.  
Tools of tungsten, Manufacture of. O. Diener. 1,740,009; Dec. 17.  
Tools, Pipe-reaming attachment for pipe-threading. M. Richman and H. H. Leon. 1,731,727; Oct. 15.  
Tools, Work-piece feed for machine. K. Tessky. 1,725,492; Aug. 20.  
Tools, Work-supporting means for machine. W. S. Davenport. 1,721,729; July 23.  
Tooth and facing, Artificial. L. H. Sprinkle. 1,735,217; Nov. 12.  
Tooth, Artificial. D. J. Crowley. 1,713,267; May 14.  
Tooth, Artificial. C. C. Hallowell. 1,734,253; Nov. 5.  
Tooth, Artificial. S. Myerson. 1,699,854; Jan. 22.  
Tooth, Artificial. F. S. Trusler. 1,726,130; Aug. 27.  
Tooth, Artificial. F. S. Trusler. 1,740,483; Dec. 24.  
Toothbrush. G. O. Burlew. 1,708,050; Apr. 9.  
Toothbrush. A. G. Dalmas. 1,736,996; Nov. 26.  
Toothbrush. S. Doskow. 1,702,042; Feb. 12.  
Toothbrush. G. J. Essbach. 1,705,109; Mar. 12.  
Toothbrush. S. F. Fitzgerald. 1,722,131; July 23.  
Toothbrush. S. B. Friedland. 1,704,564; Mar. 5.  
Toothbrush. C. J. Funk. 1,698,128; Jan. 8.  
Toothbrush. E. K. Gade. 1,719,426; July 2.  
Toothbrush. A. Goldberg. 1,707,118; Mar. 26.  
Toothbrush. C. B. Hanover. 1,734,429; Nov. 5.  
Toothbrush. V. H. Henderhan. 1,709,262; Apr. 16.  
Toothbrush. W. E. Knapp. 1,729,167-8; Sept. 24.  
Toothbrush. A. S. Meadoff. 1,735,582; Nov. 12.  
Toothbrush. P. H. Mitchell. 1,724,955; Aug. 20.  
Toothbrush. W. M. Neissl. 1,731,751; Oct. 15.  
Toothbrush. W. M. Neissl. 1,739,324; Dec. 10.  
Toothbrush. A. C. Nielsen. 1,731,500; Oct. 15.  
Toothbrush. W. Ryser. 1,705,542; Mar. 19.  
Toothbrush. R. Soukup. 1,726,197; Aug. 27.  
Toothbrush. A. E. Smith. 1,711,183; Apr. 30.  
Toothbrush. S. L. Temple. 1,711,621; May 7.  
Toothbrush. J. A. Weis. 1,706,555; Mar. 26.  
Toothbrush, Adjustable. L. E. Evslin. 1,736,525; Nov. 19.  
Toothbrush and dental floss holder, Combined. A. M. C. Oliver. 1,738,389; Dec. 3.  
Toothbrush and dentifrice holder. R. A. Brockelsby. 1,716,617; June 11.  
Toothbrush and tongue scraper, Combination. W. F. Darmitzel. 1,728,956; Sept. 24.  
Toothbrush, Fountain. C. R. Collins. 1,701,030; Feb. 5.  
Toothbrush handle. J. R. Bowen. Des. 78,258; Apr. 16.



- Toothbrush-holding device. J. B. Schmitt. 1,720,061; July 9.  
 Toothbrush, Power-driven. E. S. Brothers. 1,736,876; Nov. 26.  
 Toothbrush, Rotatable. W. W. Weir. 1,710,525; Apr. 23.  
 Toothbrush, Vibrating. W. F. Sticht. 1,703,642; Feb. 26.  
 Toothbrush, Vibratory. R. W. Wagner, H. S. Williams, and L. M. Wells. 1,734,281; Nov. 5.  
 Tooth construction, Artificial-. A. B. Johnson. 1,702,212; Feb. 12.  
 Tooth crown, Bifurcated. F. O. Jaques, jr. 1,713,437; May 14.  
 Tooth crown, Dual. E. O. Jaques, jr. 1,734,676; Nov. 5.  
 Tooth extractor. A. Vasko. 1,702,487; Feb. 19.  
 Tooth for crushing rolls. G. W. Wilmot. 1,736,563; Nov. 19.  
 Tooth for excavating dippers and the like. W. E. Wiley. 1,719,775; July 2.  
 Tooth paste. M. Donchi. 1,716,035; June 4.  
 Tooth-paste dispenser. A. D. Siewert. 1,704,108; Mar. 5.  
 Tooth-paste ejector. P. H. D. Winsor. 1,728,147; Sept. 10.  
 Toothpick dispenser. E. E. Leimer. 1,713,441; May 14.  
 Tooth point, Wedge-fit. W. McIninch. 1,729,889; Oct. 1.  
 Tooth, Porcelain-root. R. M. Robinson. 1,714,892; May 28.  
 Tooth separator. C. S. Ivory. 1,702,869; Feb. 19.  
 Tooth shade guide. M. Charen. 1,704,723; Mar. 12.  
 Tooth-shade guide. F. H. Field. 1,709,066; Apr. 16.  
 Top. C. F. Hummel and W. L. Peters. 1,723,483; Aug. 6.  
 Top, Auto. F. D. Gould. 1,717,970; June 18.  
 Top comb. D. Barker. 1,727,803; Sept. 10.  
 Top construction. P. E. Breneman. 1,696,937; Jan. 1.  
 Top-cylinder lubricator. G. Wofford, sr. 1,719,254; July 2.  
 Top, Electric spinning. M. O. Fiken. 1,732,085; Oct. 15.  
 Top for automobile rumble seats. O. Altenbach. 1,729,919; Oct. 1.  
 Top for automobiles, Summer. S. M. Dahl. 1,733,007; Oct. 22.  
 Top for gas ranges, Combination. W. H. Myers. 1,712,578; May 14.  
 Top for motor vehicles. H. Mobbs. 1,715,940; June 4.  
 Top for tables, desks, counters, and the like and making the same, Sound-deadening. L. L. Knox. 1,733,806; Oct. 29.  
 Top, Illuminated spinning. C. Arnold. 1,705,388; Mar. 12.  
 Toplift-attaching mechanism. F. L. Mackenzie. 1,716,591; June 11.  
 Top, Motor-boat. C. Z. Kroh. 1,741,318; Dec. 31.  
 Top, Motor-vehicle. G. Linton. 1,717,515; June 18.  
 Top pad, Automobile. G. E. Wintz. 1,728,093; Sept. 10.  
 Top, Receptacle. E. S. McDougall. 1,723,799; Aug. 6.  
 Top, Rumble-seat. S. E. Parry, jr., and J. E. Clark, jr. 1,728,006; Sept. 10.  
 Top, Spinning. W. E. Brown. 1,712,602; May 14.  
 Top, Spinning. Y. Kochi. 1,724,665; Aug. 13.  
 Top, Spinning. H. Schmidt. 1,700,381; Jan. 29.  
 Top, Spinning. A. J. Wahlstrom. 1,720,498; July 9.  
 Top, Table. C. E. Gerberich. 1,719,605; July 2.  
 Top, Water. O. B. Hunter. 1,722,523; July 30.  
 Topical remedy and making same, Chloronized and ozonized. E. E. Clarke. 1,724,562; Aug. 13.  
 Topper, Onion. W. Flamm. 1,697,525; Jan. 1.  
 Torch. A. J. and I. F. Fausek. 1,732,401; Oct. 22.  
 Torch. H. Klemm. 1,699,488; Jan. 15.  
 Torch. L. Wolf. 1,711,665; May 7.  
 Torch, Acetylene. G. Chastain. 1,711,262; Apr. 30.  
 Torch apparatus. J. J. Crowe. 1,718,192; June 18.  
 Torch, Cutting. J. D. McCutcheon. 1,721,569; July 23.  
 Torch, Cutting. J. R. Rose. 1,733,698; Oct. 29.  
 Torch, Cutting. E. H. Smith and H. E. Gannett. 1,709,886; Apr. 23.  
 Torch, Cutting and welding. R. D. McIntosh. 1,734,589; Nov. 5.  
 Torch for dental use, Gas. B. Lurie. 1,721,914; July 23.  
 Torch machine, Universal. E. L. Ragonnet. 1,735,129; Nov. 12.  
 Torch, Marine. C. Linhardt, jr. 1,737,424; Nov. 26.  
 Torch, Welding. R. D. McIntosh. 1,699,851; Jan. 22.  
 Torch, Welding. R. A. Weinman. 1,708,003; Apr. 9.  
 Torch with multiplicity of orifices, Cutting. C. J. Coberly. 1,729,207; Sept. 24.  
 Torchère. S. Cantor. Des. 77,637; Feb. 5.  
 Torchère, Electric. E. G. Blumenfeld. Des. 77,350; Jan. 1.  
 Torchère light for an automotive vehicle. W. Schnell. Des. 79,268; Aug. 20.  
 Torch, Converging jet cutting tip for cutting. C. J. Coberly. 1,729,206; Sept. 24.  
 Torpedo. H. Clauser. 1,705,961-2; Mar. 19.  
 Torpedo. T. B. Myers. 1,709,590; Apr. 16.  
 Torpedo and making the same, Safety railway signal. W. L. Wedger. 1,704,231; Mar. 5.  
 Torpedo and producing the same, Track. H. W. Kelly. 1,718,153; June 18.  
 Torpedo, Automatic air. R. P. Harlan. 1,733,798; Oct. 29.  
 Torpedo carrier, Aeroplane flying. C. Kesses. 1,717,159; June 11.  
 Torpedo, Railway signal. E. A. Schooley. 1,720,924-5; July 16.  
 Torpedoes, Antenna mounting for. J. H. Hammond, jr. 1,705,474; Mar. 19.  
 Torque tube. J. H. Alfes. 1,713,861; May 21.  
 Torsion balance. K. Kilchling. 1,729,836; Oct. 1.  
 Torsion balance for measuring differences of gravity. H. Haack. 1,733,407; Oct. 29.  
 Torsion balancer. B. H. Anibal. 1,718,207-8; June 25.  
 Torsion balancer. T. P. Chase. 1,718,634; June 25.  
 Torsion balancer. W. H. Manning. 1,718,656; June 25.  
 Tors on device, Composite piezo-electric. A. M. Nicolson. 1,737,019; Nov. 26.  
 Torsion device for balancing machines. W. E. Trumpler. 1,731,880; Oct. 15.  
 Tortilla machine. A. J. Pereyra. 1,732,567; Oct. 22.  
 Toughening and hardening taps for cutting screw threads milling cutters, and other cutting tools. R. F. Knight and F. Lynch. 1,701,570; Feb. 12.  
 Toupee and wig and making the same. E. Bong. 1,740,764; Dec. 24.  
 Towel and soap dispenser. C. Helmrich. 1,719,053; July 2.  
 Tower arm. C. M. Goodrich. 1,740,398; Dec. 17.  
 Towel bar. E. W. Koering. 1,721,305-6; July 16.  
 Towel bar. E. W. Koering. 1,733,970; Oct. 29.  
 Towel or similar article. S. N. Mallouk. Des. 77,906; Mar. 5.  
 Towel or similar article. S. N. Mallouk. Des. 78,299-301; Apr. 16.  
 Towel rack. H. J. Harvey. 1,717,973; June 18.  
 Towel rack. C. E. Pizzutos. 1,709,738; Apr. 16.  
 Towel stand. F. Jantzen. 1,697,654; Jan. 1.  
 Toweling or the like, Paper. P. H. Horwitt. Des. 78,575; May 21.  
 Tower, Absorption. J. A. Campbell. 1,703,571; Feb. 26.  
 Tower, Collapsible. A. K. Allen. 1,708,113; Apr. 9.  
 Tower, Fractionating. W. H. Bahlke. 1,702,805; Feb. 19.  
 Tower, Highway. R. N. Baker. Des. 77,458; Jan. 15.  
 Tower, Unloading. E. H. Kidder. 1,710,798; Apr. 30.  
 Towing machine and the like. A. H. Fleet and H. L. Hibbard. 1,728,339; Sept. 17.  
 Towing machine, Electrically-operated. G. E. Smith. 1,736,674; Nov. 19.  
 Towline. J. L. Blalack. 1,734,072; Nov. 5.  
 Towrope. J. T. Atwood. 1,699,268; Jan. 15.  
 Towrope coupling. A. Seurynck. 1,698,027; Jan. 8.  
 Toxic agent. E. P. Kampa and P. N. Hyman. 1,707,727; Apr. 2.  
 Toy. R. P., W. W., and E. D. Abbott. 1,724,447; Aug. 13.  
 Toy. R. Armbrrecht. 1,719,460; July 2.  
 Toy. D. M. Atkinson. 1,709,703; Apr. 16.  
 Toy. C. G. Austin. 1,722,515; July 30.  
 Toy. A. W. Beck. Re17,312; June 4.  
 Toy. A. W. Beck. 1,715,891; June 4.  
 Toy. H. H. Bell. 1,738,347; Dec. 3.  
 Toy. H. L. Christensen. 1,712,331; May 7.  
 Toy. A. Dudas and A. P. Wasil. 1,729,738; Oct. 1.  
 Toy. E. Erickson. 1,716,217; June 4.  
 Toy. W. Falke. 1,709,121; Apr. 16.  
 Toy. W. A. Fuld. 1,699,139; Jan. 15.  
 Toy. J. H. Gagnon. 1,726,554; Sept. 3.  
 Toy. E. Gordon. 1,729,214; Sept. 24.  
 Toy. C. P. Guion and C. J. Albert. 1,728,058; Sept. 10.  
 Toy. L. S. Gunderman. 1,701,974; Feb. 12.  
 Toy. H. G. Hose. 1,704,387; Mar. 5.  
 Toy. J. C. Johnson. 1,722,922; July 30.  
 Toy. A. A. Kucher. 1,725,870; Aug. 27.  
 Toy. A. Liaci. 1,724,488; Aug. 13.  
 Toy. J. Likes. 1,711,150; Apr. 30.  
 Toy. F. G. Main. 1,718,792; June 25.  
 Toy. J. M. Mangan. 1,731,342; Oct. 15.  
 Toy. L. Marx. Des. 78,642; May 28.  
 Toy. J. Mitchell. Des. 77,365; Jan. 1.  
 Toy. A. E. Moorhead. 1,697,995; Jan. 8.  
 Toy. H. Müller. 1,738,604; Dec. 10.  
 Toy. W. B. Osborne. 1,709,627; Apr. 16.  
 Toy. J. A. Otterbein. 1,742,153; Dec. 31.  
 Toy. K. Sahara. 1,739,329; Dec. 10.  
 Toy. W. P. Shepherd. 1,736,176; Nov. 19.  
 Toy. W. I. Smith. 1,739,098; Dec. 10.  
 Toy. J. L. Yoham. Des. 78,680; May 28.  
 Toy, Acrobatic. L. Marx. 1,725,536; Aug. 20.  
 Toy, Acrobatic racing. L. Marx. 1,703,117; Feb. 26.  
 Toy, Aeroplane. J. S. Fridolph. 1,712,074; May 7.  
 Toy aeroplane. J. K. Hodgson. 1,723,618; Aug. 6.  
 Toy, Aeroplane. B. C. Merritt. 1,728,245; Sept. 17.  
 Toy aeroplane. M. Randall. Des. 78,983; July 16.  
 Toy, Aeroplane. J. M. Schutte. 1,723,446; Aug. 6.  
 Toy aeroplane. W. L. and J. F. West. 1,719,252; July 2.  
 Toy aeroplane, Display. J. E. Burgess. 1,741,448; Dec. 31.  
 Toy, Airplane. W. H. Gordenier. Des. 78,622; May 28.  
 Toy airplane. A. E. Sprague. 1,708,335; Apr. 9.  
 Toy alligator, Inflated. C. C. Gault. Des. 78,882; July 2.  
 Toy amusement box. B. Schubart. Des. 77,505; Jan. 15.  
 Toy and novelty, Revolving-field induction. J. W. Overholt. 1,731,057; Oct. 8.  
 Toy and the like. C. R. Williams. 1,740,884; Dec. 24.  
 Toy animal. M. L. De Bretteville. Des. 77,675; Feb. 12.  
 Toy animal. H. S. Hitchcock. 1,731,926; Oct. 15.  
 Toy animal. A. E. Woolnough. 1,736,687; Nov. 19.  
 Toy animal or similar article of manufacture, Stuffed. P. Steiff. Des. 78,229; Apr. 9.  
 Toy animal or similar article of manufacture, Stuffed. P. Steiff. Des. 78,593; May 21.  
 Toy animal or similar article of manufacture, Stuffed. P. Steiff. Des. 78,988; July 16.  
 Toy animal, Stuffed. M. Averill. Des. 77,386; Jan. 8.  
 Toy animal, Wheeled. I. G. Davis. 1,701,910; Feb. 12.  
 Toy, Articulated skeletal. C. W. Cherry. 1,719,590; July 2.  
 Toy, Automatic. C. C. Bain. 1,699,484; Jan. 15.



- Toy, Ball-shooting. H. E. McCoy. 1,715,166; May 28.  
 Toy balloon. R. E. Weigel. 1,703,463; Feb. 26.  
 Toy balloon. L. C. White. 1,713,508; June 25.  
 Toy bank. W. Cola. 1,717,144; June 11.  
 Toy bank. J. M. Nelson. Des. 80,040; Dec. 3.  
 Toy baseball game. C. W. Wright. 1,741,596; Dec. 31.  
 Toy baseball game. A. F. Zimmerman. 1,723,671; Aug. 6.  
 Toy batsman. M. Levin and J. R. Lopez. 1,728,799; Sept. 17.  
 Toy, Bipedal. R. V. Kuen. 1,724,094; Aug. 13.  
 Toy, Blow. I. Cohn. 1,710,346; Apr. 23.  
 Toy boat. A. C. Carlson. Des. 77,669; Feb. 12.  
 Toy boat. J. P. Marshall. Des. 79,315; Aug. 27.  
 Toy, Bounding. A. Dvinsky. 1,707,714; Apr. 2.  
 Toy, Boxing. A. A. Brinkman. 1,726,644; Sept. 3.  
 Toy, Boxing figure. R. L. McGee. 1,736,163; Nov. 19.  
 Toy building block. J. Rutherford. 1,736,134; Nov. 19.  
 Toy building construction. A. C. Gilbert. 1,736,310; Nov. 19.  
 Toy building construction. K. P. Kohler. 1,706,696; Mar. 26.  
 Toy building construction outfit. B. J. Paulson. 1,701,190; Feb. 5.  
 Toy, Butterfly. P. Arzig. 1,708,823; Apr. 9.  
 Toy car. L. Caruso. 1,711,261; Apr. 30.  
 Toy catapult. E. L. Caldwell and F. Farris. 1,699,092; Jan. 15.  
 Toy chariot. A. L. Runyan. 1,732,030; Oct. 15.  
 Toy chest. P. R. Stevens. 1,731,325; Oct. 15.  
 Toy, Circus. J. West. Des. 78,495; May 7.  
 Toy circus wagon. M. Cohn. Des. 77,463; Jan. 15.  
 Toy circus wagon. E. M. Dover. Des. 77,945; Mar. 12.  
 Toy, Construction. A. C. Gilbert. 1,724,470; Aug. 13.  
 Toy, Construction. A. C. Gilbert. 1,732,799; Oct. 22.  
 Toy, Counterweight figure. F. Zalka. 1,698,617; Jan. 8.  
 Toy, Dancing. I. W. Furman. 1,713,430; May 14.  
 Toy, Dancing-doll. R. E. Ellett. Des. 77,535; Jan. 22.  
 Toy device, Vehicle. L. Kaufman and F. H. Fog. 1,714,270; May 21.  
 Toy dog. N. Paulson. Des. 78,781; June 18.  
 Toy drive, Aerial. J. Holtzman. 1,731,047; Oct. 8.  
 Toy electric engine. R. Koenig. 1,737,051; Nov. 26.  
 Toy electric locomotive. T. R. Arden. 1,706,765; Mar. 26.  
 Toy electric locomotive. H. C. Ives. 1,713,966; May 21.  
 Toy electric locomotives, Power-plant attachment for. N. D. Highfill. 1,727,704; Sept. 10.  
 Toy electric-railway system. J. C. Koerber. 1,726,670; Sept. 3.  
 Toy electric range. R. Koenig. 1,737,050; Nov. 26.  
 Toy, Electromagnetic signal. R. V. Phillips. 1,725,417; Aug. 20.  
 Toy element constructed of sheet metal. I. Berger. 1,732,456; Oct. 22.  
 Toy elephant. A. Feddersen. 1,697,351; Jan. 1.  
 Toy engine. T. S. Haney. 1,721,447; July 16.  
 Toy, Figure. A. Bollak. 1,707,705; Apr. 2.  
 Toy, Figure. E. B. France. 1,741,103; Dec. 24.  
 Toy, Figure. W. Hinsen. 1,721,733; July 23.  
 Toy figure. E. P. Lehmann. 1,714,031; May 21.  
 Toy, Figure. B. Ritchie and E. McGrew. 1,721,091; July 16.  
 Toy figure, Mechanical. G. Eyring. 1,727,818; Sept. 10.  
 Toy figure, Running. E. Schliederer. 1,739,614; Dec. 17.  
 Toy, Figure wheeled. S. I. Berger. 1,725,247; Aug. 20.  
 Toy, Figure wheeled. E. J. Darling. 1,711,376; Apr. 30.  
 Toy, Figure wheeled. W. A. Fuld. 1,699,138; Jan. 15.  
 Toy, Figure wheeled. J. D. Payne. 1,701,243; Feb. 5.  
 Toy, Figure wheeled. J. Richter. 1,722,340; July 30.  
 Toy, Figure wheeled. W. J. Rost. 1,704,019; Mar. 5.  
 Toy, Figure wheeled. W. J. Rost. 1,722,681; July 30.  
 Toy, Figure wheeled. W. J. Rost. 1,723,749; Aug. 6.  
 Toy firearm. R. E. Reardon. 1,730,625; Oct. 8.  
 Toy, Flexible. S. Colledanchise. 1,714,158; May 21.  
 Toy, Fluid-holding. M. Carter. Re17,248; Mar. 26.  
 Toy, Flying. W. Onysko. 1,727,726; Sept. 10.  
 Toy glider. A. A. O'Brien. Des. 79,978; Nov. 26.  
 Toy grasshopper. J. E. Brubaker. 1,717,141; June 11.  
 Toy gun. J. B. Fisher. 1,724,271; Aug. 13.  
 Toy gun. J. C. Harris. 1,724,708; Aug. 13.  
 Toy gun. J. Heinen and B. C. Smith. 1,726,829; Sept. 3.  
 Toy gun. B. F. Malott. 1,723,554; Aug. 6.  
 Toy gun. J. R. Streid. 1,697,547; Jan. 1.  
 Toy gun. H. R. Wheeler, jr. 1,699,416; Jan. 15.  
 Toy gun and projectile. N. Baldwin. 1,738,938; Dec. 10.  
 Toy gun for projecting rubber bands. R. J. Blackman. 1,707,045; Mar. 26.  
 Toy guns, Cartridge for. F. Henke. 1,735,079; Nov. 12.  
 Toy guns, Cartridge for. W. R. Paxson. 1,735,086; Nov. 12.  
 Toy golf game. P. C. Jurs. 1,132,518; Oct. 22.  
 Toy, Gyrostatic. E. P. Lehmann. 1,710,219; Apr. 23.  
 Toy handcuff. T. J. Hoglund. 1,732,225; Oct. 22.  
 Toy hoisting crane. E. Haase. 1,723,694; Aug. 6.  
 Toy horse. W. I. Ravert. Des. 77,623; Jan. 29.  
 Toy horse. J. O. Smith. 1,732,991; Oct. 22.  
 Toy house. R. B. Nichols and G. E. Grant. 1,716,238; June 4.  
 Toy, Inflatable. F. Hauff. Des. 78,022; Mar. 19.  
 Toy, Inflated. F. Hauff. 1,714,558; May 28.  
 Toy, Jointed figure. E. F. Hill. 1,709,432; Apr. 16.  
 Toy, Jointed figure. W. I. Ravert. 1,720,293; July 9.  
 Toy lighthouse and ornament. L. Rodeck. 1,718,982; July 2.  
 Toy locomotive, Smoking. R. C. Dombrow. 1,737,787; Dec. 3.  
 Toy locomotives, Tender for. J. E. Cuff. Des. 80,168; Dec. 24.  
 Toy, Mechanical. S. I. Berger. 1,705,172; Mar. 12.  
 Toy, Mechanical. I. Slafsky. 1,697,667; Jan. 1.  
 Toy, Mechanical. H. L. Youngquist. 1,714,537; May 28.  
 Toy, Mechanical wheeled. J. J. Sapora. 1,740,269; Dec. 17.  
 Toy, Mechanically-operated. D. H. Marx. 1,700,232; Jan. 29.  
 Toy mixing machine. F. A. Lundahl. 1,718,911; June 25.  
 Toy money bank and calendar-pad holder, Combined. Z. M. Speer. Des. 78,128; Mar. 26.  
 Toy motor car. J. Richter. 1,730,296; Oct. 1.  
 Toy, Musical. K. Behn. 1,739,569; Dec. 17.  
 Toy, Musical. H. A. Myers. 1,721,465; July 16.  
 Toy, Musical. H. A. Myers. 1,723,057; Aug. 6.  
 Toy or game, Gravity. L. S. Gunderman. 1,739,719; Dec. 17.  
 Toy or similar article. D. H. MacBride. Des. 79,975; Nov. 26.  
 Toy parachute. T. G. Griggs. 1,713,432; May 14.  
 Toy parachute. A. F. and A. D. Lent. 1,723,793; Aug. 6.  
 Toy, Parade-simulating. L. Marx. 1,704,012; Mar. 5.  
 Toy, Picture. C. M. Rogers. 1,719,853; July 9.  
 Toy, Picture-block. R. H. Groves. 1,702,505; Feb. 19.  
 Toy pistol. P. H. Berger. 1,726,534; Sept. 3.  
 Toy pistol. J. H. Hood. 1,731,049; Oct. 8.  
 Toy pistol. I. C. McWhirter. 1,718,247; June 25.  
 Toy pistol. T. O. Schrader. 1,735,698; Nov. 12.  
 Toy pistol. T. E. Webb. 1,729,917; Oct. 1.  
 Toy, Projectile. H. G. Lapsley. 1,741,995; Dec. 31.  
 Toy projectile with parachute. R. M. Ferrill. 1,723,343; Aug. 6.  
 Toy, Projecting figure. G. W. Tarkington. 1,715,798; June 4.  
 Toy, Quadrapedal. R. V. Kuen. 1,707,735; Apr. 2.  
 Toy race course. B. L. Scott. 1,700,273; Jan. 29.  
 Toy, Radio actuated figure. L. C. Greene. 1,726,294; Aug. 27.  
 Toy railroad track. J. Cooper. 1,736,487; Nov. 19.  
 Toy-railroad-track construction. M. Caruso. 1,701,947; Feb. 12.  
 Toy register bank. J. Farber. 1,699,232; Jan. 15.  
 Toy representing an egg-laying hare. G. Sachs. 1,702,134; Feb. 12.  
 Toy, Riding. D. Schaeffer. Re17,414; Aug. 20.  
 Toy, Riding-stick. E. C. Miller. 1,726,626; Sept. 3.  
 Toy, Rolling. W. C. Farnum. 1,737,651; Dec. 3.  
 Toy, Rotary. K. Arenc. 1,712,467; May 7.  
 Toy, Rotating. A. Palmigiano, jr. 1,723,656; Aug. 6.  
 Toy scale. H. B. Green. 1,710,307; Apr. 23.  
 Toy, Somersaulting. A. G. Teason. 1,701,219; Feb. 5.  
 Toy, Sounding. F. R. Sherman. 1,725,831; Aug. 27.  
 Toy, Sounding figure. H. S. Stephens. 1,701,734; Feb. 12.  
 Toy, Sounding wheeled. G. Tsobanacos. 1,707,826; Apr. 2.  
 Toy, Sparking. L. V. Aronson. 1,701,136; Feb. 5.  
 Toy speaking phone. J. H. Conklin. 1,704,880; Mar. 12.  
 Toy, Spinner. J. Johannessen. Des. 78,822; June 25.  
 Toy, Spinning. J. Monson. 1,699,984; Jan. 22.  
 Toy stage and stage setting therefor or similar article, Combined. C. H. Weissgerber. Des. 79,680; Oct. 22.  
 Toy steam engine. W. Ritchie. 1,735,057; Nov. 12.  
 Toy, Structural. H. W. Graves. 1,718,230; June 25.  
 Toy, Stuffed figure. H. M. Dickens. 1,708,170; Apr. 9.  
 Toy submarine, Diving. J. J. Mackintosh. 1,736,270; Nov. 19.  
 Toy telephone. N. N. Hill. 1,741,020; Dec. 24.  
 Toy, Tone-producing. A. V. Da Costa. 1,709,841; Apr. 23.  
 Toy vehicle. D. L. Aldridge. 1,728,587; Sept. 17.  
 Toy vehicle. O. L. Lewis. 1,719,062; July 2.  
 Toy, Vehicle. F. A. Lundahl. 1,723,552; Aug. 6.  
 Toy vehicle. A. B. Ostby. 1,734,775; Nov. 5.  
 Toy vehicle, Hand-propelled. E. A. Calleson. Des. 77,531; Jan. 22.  
 Toy vehicle wheel and assembling same. D. W. Gill and M. P. Orr. 1,708,969; Apr. 16.  
 Toy vehicle, Wheeled. D. K. Rice. 1,736,052; Nov. 19.  
 Toy, Vehicular. W. J. Burton, jr. Des. 79,621; Oct. 22.  
 Toy wagon. G. M. Molsson. Des. 77,367; Jan. 1.  
 Toy wagon, Circus. G. M. Molsson. Des. 77,366; Jan. 1.  
 Toy, Walking figure wheeled. W. A. Barry. 1,724,170; Aug. 13.  
 Toy, Wheel-bearing figure. C. A. Wetzell. Des. 78,496; May 7.  
 Toy, Wheel-bearing figure. C. A. Wetzell. Des. 79,540; Oct. 1.  
 Toy, Wheeled. T. S. Dowst. 1,728,725; Sept. 17.  
 Toy, Wheeled. R. H. Husted. 1,699,360; Jan. 15.  
 Toy, Wheeled. E. W. Lawson. Des. 77,781; Feb. 19.  
 Toy, Wheeled. A. Sanamé. 1,710,461; Apr. 23.  
 Toy, Wheeled. M. R. Spencer. 1,730,634; Oct. 8.  
 Toy, Wheeled. F. S. Standers. Des. 78,317; Apr. 16.  
 Toy, Wheeled musical. L. Knott. 1,711,096; Apr. 30.  
 Toy, Wind-driven boxer. R. R. Root. 1,731,396; Oct. 15.  
 Toy windmill. J. F. Keller. 1,734,858; Nov. 5.  
 Toy wind wheel. F. J. Dick. 1,714,419; May 21.  
 Toys, Figure unit for dancing figure. M. Muller. 1,721,186; July 16.  
 Toys, Mechanical sound-producing device for. F. L. Gatchet. 1,720,394; July 9.  
 Trace carrier. L. B. Fox. 1,732,402; Oct. 22.  
 Trace carrier. W. M. Watkins. 1,709,507; Apr. 16.  
 Trace-chain hook. C. D. Turlington. 1,736,062; Nov. 19.  
 Trace connector. C. T. Swenson. 1,723,094; Aug. 6.



- Trace, Harness chain. E. P. Belz. 1,702,959; Feb. 19.  
 Tracer composition. S. St. P. Meek. 1,708,186; Apr. 9.  
 Tracer composition. H. C. Pritham. 1,708,151; Apr. 9.  
 Tracer control for lathes, Electric. J. C. Shaw. 1,711,290; Apr. 30.  
 Tracings, Making. R. L. Jannenga and R. C. Lemmerhart. 1,736,445; Nov. 19.  
 Track. S. Wildt. 1,731,155; Oct. 8.  
 Track. R. J. Winsor. 1,707,953; Apr. 2.  
 Track and handling same, Removable. G. E. Turner. 1,724,237; Aug. 13.  
 Track and platform arrangement for railway stations. J. R. W. Ambrose. 1,714,582; May 28.  
 Track attachment for trucks, Endless. C. S. Ehrhart. 1,729,374; Sept. 24.  
 Track ballasting. T. J. Lavan. 1,731,014; Oct. 8.  
 Track belt link. M. G. Moore. 1,713,614; May 21.  
 Track cleaner. M. L. Wenrich. 1,729,754; Oct. 1.  
 Track construction. H. A. Petterson. 1,704,545; Mar. 5.  
 Track construction, Monorail. P. S. Combs, jr. 1,740,417; Dec. 17.  
 Track construction, Railway-. H. H. Diehl. 1,729,157; Sept. 24.  
 Track crossing, Railway-. L. Sadler. 1,713,008; May 14.  
 Track, Dog race. J. Naud and S. Moche. 1,703,496; Feb. 26.  
 Track, Dog race. J. Naud and S. Moche. 1,733,069; Oct. 22.  
 Track element for intermittent inductive train-control systems. C. S. Bushnoll. 1,706,839; Mar. 26.  
 Track for dog racing and the like. J. A. McKee. 1,730,519; Oct. 8.  
 Track for door hangers. H. L. Ferris. 1,726,290; Aug. 27.  
 Track for road vehicles, Sectional. J. J. Reading. 1,704,149; Mar. 5.  
 Track for roller-coaster type of amusement structures. P. G. Grine. 1,729,827; Oct. 1.  
 Track for tracklaying vehicles, Endless. D. J. Luckett. 1,698,874; Jan. 8.  
 Track for vehicles, Endless. O. S. Penn. 1,724,961; Aug. 20.  
 Track-laying adapter. E. F. Norelium. 1,708,104; Apr. 9.  
 Track-laying attachment. G. C. Voit. 1,735,306; Nov. 12.  
 Track lubricator. A. G. Humphries and F. Bonnalie. 1,728,412; Sept. 17.  
 Track-moving machine. C. Beck. 1,730,029; Oct. 1.  
 Track opener, Closure-operated. F. C. Harris. 1,729,614; Oct. 1.  
 Track, Railway. A. W. Rogers. 1,731,110; Oct. 8.  
 Track sander. H. Vissering. 1,735,097; Nov. 12.  
 Track shifter. H. H. Talboys. 1,733,520; Oct. 29.  
 Track structure, Railroad-. W. Ord. 1,705,308; Mar. 12.  
 Track switch, Electrically-operated. G. D. Rabun. 1,721,133; July 16.  
 Track switch, Trolley. A. D. Saborsky. 1,701,310; Feb. 5.  
 Trackway, Electric-motor-conveyer. E. Hanak. 1,722,291; July 30.  
 Traction and antiskid attachment for automobile and truck drive wheels. W. and M. H. Paterson. 1,729,799; Oct. 1.  
 Traction and load-carrying unit for motor vehicles, Auxiliary. E. B. Cadwell and A. B. Webb. 1,731,814; Oct. 15.  
 Traction and steering device for motor vehicles, Auxiliary. F. B. Barshell. 1,703,070; Feb. 19.  
 Traction apparatus for agricultural implements. R. B. Otwell. 1,705,307; Mar. 12.  
 Traction control and driving mechanism. A. C. Menningen. 1,720,849; July 16.  
 Traction device for automobiles. G. H. Fast. 1,697,915; Jan. 8.  
 Traction machine. R. Bräuer. 1,711,719; May 7.  
 Traction mechanism. M. H. Edmondson. 1,715,745; June 4.  
 Traction mechanism. M. P. Holmes. 1,740,694; Dec. 24.  
 Traction or supporting wheel. R. N. Riblet. 1,732,484; Oct. 22.  
 Traction shoe, Nonskid flexible. E. A. Baker. 1,719,746; July 2.  
 Traction wheel. J. J. Campodonico. 1,721,769; July 23.  
 Traction wheel. W. E. Wine. 1,705,796; Mar. 19.  
 Tractor. S. A. Burris. 1,737,568; Dec. 3.  
 Tractor. D. P. Davies. 1,740,810; Dec. 24.  
 Tractor. A. W. Haiss. 1,700,127; Jan. 29.  
 Tractor. W. T. James. 1,715,503; June 4.  
 Tractor. J. Jessen. 1,717,980; June 18.  
 Tractor. P. J. Lyback. 1,735,929; Nov. 19.  
 Tractor. G. O. Matter. 1,722,531; July 30.  
 Tractor. J. H. McCollough. 1,738,784; Dec. 10.  
 Tractor. D. Parrett. 1,707,316; Apr. 2.  
 Tractor. D. Parrett. 1,712,162; May 7.  
 Tractor. J. M. Parrott. 1,724,774; Aug. 13.  
 Tractor. F. Sembera. 1,710,116; Apr. 23.  
 Tractor. W. F. Sherman. 1,700,143; Jan. 29.  
 Tractor. W. F. Smith. 1,697,831; Jan. 1.  
 Tractor. L. W. Witry. 1,702,371; Feb. 19.  
 Tractor and farm implement, Combined. E. S. and L. J. Breunig and W. B. Dolder. 1,707,075; Mar. 26.  
 Tractor and semitrailer. F. M. Reid. 1,740,935; Dec. 24.  
 Tractor attachment. J. D. Cummings and R. R. Norris. 1,721,546; July 23.  
 Tractor attachment. P. Rainer and E. A. Rolfs. 1,706,742; Mar. 26.  
 Tractor attachment. M. Renner. 1,729,686; Oct. 1.  
 Tractor attachment for pipe cleaners. F. McManis. 1,740,663; Dec. 24.  
 Tractor bed. A. M. Hungerford. 1,718,046; June 18.  
 Tractor, Cultivating. L. S. Cushman. Cultivating tractor. 1,719,594; July 2.  
 Tractor cultivator. B. R. Benjamin. 1,718,773; June 25.  
 Tractor-drawn implements, Adjusting means for. C. R. Roney and A. E. W. Johnson. 1,721,712; July 23.  
 Tractor for general farm use, Light automotive. W. J. Henderson. 1,725,862; Aug. 27.  
 Tractor frame. E. C. Myers. 1,702,915; Feb. 19.  
 Tractor grader, Combination. A. G. and A. Ronning. 1,706,256; Mar. 19.  
 Tractor guide, Automatic. F. L. Zybach. 1,731,220; Oct. 8.  
 Tractor hitch. C. O. Aspenwall. 1,721,682; July 23.  
 Tractor hitch. E. E. Bashor. 1,727,533; Sept. 10.  
 Tractor hitch. M. S. Gregory. 1,729,104; Sept. 24.  
 Tractor hitch for gang plows. J. Tedell. 1,732,703; Oct. 22.  
 Tractor hitch for plows. F. S. Shields. 1,725,217; Aug. 20.  
 Tractor implement attachment. F. L. Dewey. 1,718,780; June 25.  
 Tractor implement, Combination. A. G. and A. Ronning. 1,700,421; Jan. 29.  
 Tractor lug, Self-cleaning. F. L. Zybach. 1,727,625; Sept. 10.  
 Tractor, Motor. C. P. Pritchett and P. H. Williams. 1,709,739; Apr. 16.  
 Tractor, Plow. U. Nardone. 1,722,440; July 30.  
 Tractor rim. P. A. Johnson. 1,732,517; Oct. 22.  
 Tractor, Shop. R. J. Burrows. 1,715,639; June 4.  
 Tractor, Shop. B. Stockfleth and F. W. Burger. 1,719,857; July 9.  
 Tractor, Shop. B. Stockfleth and F. W. Burger. 1,726,996; Sept. 3.  
 Tractor sweep rake. C. Pearson. 1,729,084; Sept. 24.  
 Tractor-track inclosure. C. M. Rasmussen. 1,741,878; Dec. 31.  
 Tractor, Tracklaying. C. L. Best. 1,715,055; May 28.  
 Tractor trailer. C. M. Luck. 1,724,489; Aug. 13.  
 Tractor trailer. C. M. Luck. 1,736,450; Nov. 19.  
 Tractor tread. C. A. Henneuse. 1,704,857; Mar. 12.  
 Tractor wagon hitch for corn huskers. R. Loots and W. Elsen. 1,708,922; Apr. 9.  
 Tractor wheel. H. L. Albertson. 1,725,043; Aug. 20.  
 Tractor wheel. W. G. Fisher. 1,699,057; Jan. 15.  
 Tractor-wheel attachment. T. C. Johnson. 1,715,841; June 4.  
 Tractor-wheel lugs, Making. H. E. McCray. 1,721,602; July 23.  
 Tractor wheel with adjustable lug. P. Pfeifer. 1,702,617; Feb. 19.  
 Tractor wheels, Sand guard for. J. T. Earnest. 1,697,307; Jan. 1.  
 Tractor winch. R. Bollheimer, E. T. Wilkens, and G. R. Harris. 1,713,991; May 21.  
 Tractor with chain-track drive. V. Jereczek. 1,711,601; May 7.  
 Tractors and motor vehicles, Attachment for. S. W. Huppert. 1,728,346; Sept. 17.  
 Tractors, Attachment for. O. F. Bailey. 1,712,684; May 14.  
 Tractors, Attachment for. T. H. Jacob. 1,732,754; Oct. 22.  
 Tractors, Attachment for shop. F. W. Burger and B. Stockfleth. 1,715,815; June 4.  
 Tractors, Body mounting for. A. S. Hughes and H. F. Gorsuch. 1,736,787; Nov. 26.  
 Tractors, Cable guide and track guard for. O. M. Decker. 1,697,970; Jan. 8.  
 Tractors, Combined sweep and stacker attachment for. F. Anderson. 1,709,425; Apr. 16.  
 Tractors, Cultivator attachment for. C. C. Newman. 1,727,175; Sept. 3.  
 Tractors, Draft hitch for. P. P. Baker. 1,735,719; Nov. 12.  
 Tractors, Draw bar for. H. A. Heckman. 1,732,580; Oct. 22.  
 Tractors, Drawbar hitch for. G. Starks. 1,715,682; June 4.  
 Tractors, Front-axle cushion for. A. S. Hughes. 1,721,957; July 23.  
 Tractors, Loading attachment for. T. Werthman. 1,718,444; June 25.  
 Tractors, Potato-digger attachment for. E. W. Johnson. 1,721,122; July 16.  
 Tractors, Scaper attachment for. J. D. Cummings. 1,713,030; May 14.  
 Tractors, Steering attachment for. F. L. Willrodt. Re17,543; Dec. 31.  
 Traffic button. R. D. McCrea. 1,698,957; Jan. 15.  
 Traffic control. S. M. Edwards. 1,704,595; Mar. 5.  
 Traffic-control apparatus. E. C. Sweetman. 1,721,286; July 16.  
 Traffic-controlling apparatus and electrical apparatus suitable for use therein, Railway-. P. H. Geiger. 1,704,736; Mar. 12.  
 Traffic-controlling apparatus, Railway-. P. N. Bossert. 1,698,470; Jan. 8.  
 Traffic-controlling apparatus, Railway-. J. P. Coleman. 1,713,169; May 14.  
 Traffic-controlling apparatus, Railway-. A. V. T. Day. 1,697,680; Jan. 1.  
 Traffic-controlling apparatus, Railway-. C. W. Failor. 1,701,749; Feb. 12.  
 Traffic-controlling apparatus, Railway-. C. W. Failor. 1,718,736; June 25.



- Traffic-controlling apparatus, Railway. F. T. Fereday. 1,709,907; Apr. 23.
- Traffic-controlling apparatus, Railway. P. H. Geiger. 1,704,735; Mar. 12.
- Traffic-controlling apparatus, Railway. R. M. Gilson. 1,705,610; Mar. 19.
- Traffic-controlling apparatus, Railway. L. O. Grondahl. 1,711,384; Apr. 30.
- Traffic-controlling apparatus, Railway. L. O. Grondahl. 1,727,204; Sept. 3.
- Traffic-controlling apparatus, Railway. L. O. Grondahl. 1,728,563; Sept. 17.
- Traffic-controlling apparatus, Railway. J. S. Hobson. 1,728,548; Sept. 17.
- Traffic-controlling apparatus, Railway. L. V. Lewis. 1,720,225; July 9.
- Traffic-controlling apparatus, Railway. L. V. Lewis. 1,721,961; July 23.
- Traffic-controlling apparatus, Railway. R. A. McCann. 1,714,918; May 28.
- Traffic-controlling apparatus, Railway. C. A. Reed. 1,706,706; Mar. 26.
- Traffic-controlling apparatus, Railway. A. A. Skene. 1,733,280; Oct. 29.
- Traffic-controlling apparatus, Railway. C. S. Snively. 1,704,110; Mar. 5.
- Traffic-controlling apparatus, Railway. C. S. Snively. 1,709,920; Apr. 23.
- Traffic-controlling apparatus, Railway. A. J. Sorensen. 1,741,001; Dec. 24.
- Traffic-controlling apparatus, Railway. L. E. Spray. 1,728,773; Sept. 17.
- Traffic-controlling apparatus, Railway. P. P. Stoker. 1,727,183; Sept. 3.
- Traffic-controlling apparatus, Railway. C. F. Stoltz. 1,712,525; May 14.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,701,705; Feb. 12.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,702,552; Feb. 19.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,712,315; May 7.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,720,866; July 16.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,725,113; Aug. 20.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,728,776; Sept. 17.
- Traffic-controlling apparatus, Railway. H. A. Thompson. 1,733,285; Oct. 29.
- Traffic-controlling apparatus, Railway. E. A. Warner, jr. 1,704,450; Mar. 5.
- Traffic-controlling apparatus, Railway. H. S. Young. 1,722,364; July 30.
- Traffic-controlling system, Railway. A. V. T. Day. 1,710,496; Apr. 23.
- Traffic-controlling system, Railway. G. C. Whitney. 1,715,485; June 4.
- Traffic-direction signal. N. Miller and W. Bistram. 1,700,296; Jan. 29.
- Traffic indicator. R. A. Wood. 1,708,459; Apr. 9.
- Traffic line and joint machine and producing same. J. N. Heltzel. 1,740,345; Dec. 17.
- Traffic-metering system. R. F. Gould. 1,701,071; Feb. 5.
- Traffic signal. H. J. Bareham. 1,725,244; Aug. 20.
- Traffic signal. H. F. Beidler. 1,728,467; Sept. 17.
- Traffic signal. M. A. Castro. 1,734,431; Nov. 5.
- Traffic signal. A. Daniel. 1,719,394; July 2.
- Traffic signal. E. D. Dillon. 1,714,351; May 21.
- Traffic signal. P. Eberspächer. 1,724,647; Aug. 13.
- Traffic signal. M. B. Franklin. 1,726,817; Sept. 3.
- Traffic signal. C. A. B. Halvorson, jr. 1,711,477; Apr. 30.
- Traffic signal. P. P. Hornl. 1,728,762; Sept. 17.
- Traffic signal. T. E. Ingram. 1,705,922; Mar. 19.
- Traffic signal. C. Longfield. 1,720,420; July 9.
- Traffic signal. C. T. Marton. 1,699,301; Jan. 15.
- Traffic signal. A. O. Olafson. 1,719,020; July 2.
- Traffic signal. W. J. Purcell. 1,736,326; Nov. 19.
- Traffic signal. J. and H. W. Rank. 1,709,190; Apr. 16.
- Traffic signal. T. W. Rolph. 1,708,108; Apr. 9.
- Traffic signal. A. B. Schleicher. 1,707,951; Apr. 2.
- Traffic signal. W. H. Shadel. Des. 77,712; Feb. 12.
- Traffic signal. L. M. Torrence. 1,735,828; Nov. 12.
- Traffic signal. L. M. Torrence. 1,736,382; Nov. 19.
- Traffic signal. G. C. Waterhouse. Des. 78,953; July 9.
- Traffic signal. E. W. Weathers. Des. 80,154; Dec. 17.
- Traffic signal and lamp post, Combined. R. V. Spencer. Des. 79,674; Oct. 22.
- Traffic signal and tail light for automobiles or the like, Combined. A. J. Piess. Des. 79,683; Oct. 22.
- Traffic signal, Automatic. F. Page. 1,734,228; Nov. 5.
- Traffic-signal-control mechanism. C. W. Neill. 1,723,062; Aug. 6.
- Traffic-signal detector. F. J. Andel and E. G. Gaus. 1,731,284; Oct. 15.
- Traffic signal, Electric. L. M. Tartaglia. 1,730,098; Oct. 1.
- Traffic-signal-operating mechanism. C. W. and T. Neill. 1,723,061; Aug. 6.
- Traffic-signal system. C. W. and T. T. Neill. 1,723,060; Aug. 6.
- Traffic signal, Vehicle. Y. Morimoto. 1,718,659; June 25.
- Traffic-signaling device. W. A. Butler. Des. 77,883; Mar. 5.
- Traffic system, Cabinet. F. M. Elkinton. 1,715,746; June 4.
- Traffic System for automatically controlling railway. W. K. Howe. 1,730,323; Oct. 1.
- Traffic-warning device. R. C. Eckstrand. 1,740,501; Dec. 24.
- Trailer. S. Hatashita. 1,734,969; Nov. 12.
- Trailer brake. A. M. W. Carter. 1,711,720; May 7.
- Trailer brake, Automatic. W. O. and W. F. Swanson. 1,725,548; Aug. 20.
- Trailer, Camping. C. J. Wilson. 1,715,971; June 4.
- Trailer-control mechanism. A. B. Cadman. 1,720,882; July 16.
- Trailer coupling. H. H. Curtis. 1,713,950; May 21.
- Trailer coupling for saddle tractors with run-up rails. G. Pohlmann. 1,732,658; Oct. 22.
- Trailer, Drop-frame. C. G. Clement. 1,722,558; July 30.
- Trailer, Fifth-wheel. D. H. Davis. 1,707,513; Apr. 2.
- Trailer, Four-wheel. D. I. Fogger. 1,732,006; Oct. 15.
- Trailer-frame construction. A. O. Nordine. 1,741,873; Dec. 31.
- Trailer hitch. J. H. Klein. 1,699,397; Jan. 15.
- Trailer hitch and tire carrier. M. P. Valine. 1,741,085; Dec. 24.
- Trailer-hitch attachment, Automobile. C. P. Hansen. 1,739,456; Dec. 10.
- Trailer hitch means, Dump. A. P. and S. F. Armington. 1,716,810; June 11.
- Trailer leg. E. R. Gilkison. 1,727,430; Sept. 10.
- Trailer, Vehicle. J. B. Fisher. 1,739,716; Dec. 17.
- Trailers, Back-up stop for. G. J. Holanbek. 1,723,237; Aug. 6.
- Train brakes, Device for automatically setting. J. M. Sweeney. 1,720,103; July 9.
- Train control. A. R. Angus. 1,707,037; Mar. 26.
- Train control. A. R. Angus. 1,710,494; Apr. 23.
- Train control. C. S. Bushnell. 1,700,695; Jan. 29.
- Train control. C. S. Bushnell. 1,710,654; Apr. 23.
- Train control. F. L. Dodgson. 1,720,644-6; July 9.
- Train control. C. F. Estwick. 1,704,183; Mar. 5.
- Train control. W. D. Hailes. 1,703,844; Feb. 26.
- Train control. W. D. Hailes. 1,706,849; Mar. 26.
- Train control. W. K. Howe. 1,700,701; Jan. 29.
- Train control. W. K. Howe. 1,717,388-40; June 11.
- Train control. W. K. Howe. 1,720,633; July 9.
- Train control. W. K. Howe. 1,742,076; Dec. 31.
- Train control. R. C. Leake. 1,703,826; Feb. 26.
- Train control. R. C. Leake and C. F. Estwick. 1,700,703; Jan. 29.
- Train control. H. B. Taylor. 1,717,328; June 11.
- Train-control acknowledging contactor. C. S. Bushnell. 1,725,729; Aug. 20.
- Train control, Alternating-current intermittent-induction-type. A. G. Shaver. 1,738,736; Dec. 10.
- Train-control apparatus. E. Wilckens. 1,698,864; Jan. 15.
- Train-control apparatus, Automatic. P. J. Clifford. 1,716,208-9; June 4.
- Train control apparatus, Automatic. M. T. Wintsch. 1,697,624; Jan. 1.
- Train-control apparatus, Automatic. M. T. Wintsch. 1,720,940; July 16.
- Train control, Automatic. P. J. Simmen. Re17,384; July 30.
- Train control, Automatic. P. J. Simmen. Re17,395; Aug. 6.
- Train control, Continuous. A. L. Ruthven. 1,715,250; May 28.
- Train-control device. C. A. Nelson. 1,720,288; July 9.
- Train-control device. T. H. Thomas. 1,703,907; Mar. 5.
- Train control, Induction-type. A. G. Shaver. 1,734,601; Nov. 5.
- Train control, Intermittent induction-type. A. G. Shaver. 1,738,737; Dec. 10.
- Train-control mechanism, Rotary distance. P. J. Clifford. 1,705,658; Mar. 19.
- Train-control receiver, Intermittent inductive. C. S. Bushnell. 1,710,655; Apr. 23.
- Train control, Simplex continuous-induction intermittent. A. L. Ruthven. 1,701,544; Feb. 12.
- Train control, Simplex continuous-induction intermittent. A. L. Ruthven. 1,701,592; Feb. 12.
- Train-control speed governor. C. C. Farmer. 1,723,144; Aug. 6.
- Train-control system. E. J. Blake. 1,710,495; Apr. 23.
- Train-control system. T. Bodde. 1,739,120; Dec. 10.
- Train-control system. C. S. Bushnell. 1,736,732-7; Nov. 19.
- Train-control system. T. E. and J. E. Clark. 1,702,764; Feb. 19.
- Train-control system. T. E. and J. E. Clark. 1,712,788; May 14.
- Train-control system. T. E. and J. E. Clark. 1,718,527; June 25.
- Train-control system. W. K. Howe. 1,736,729; Nov. 19.
- Train-control system. A. E. Hudd. 1,731,664; Oct. 15.
- Train-control system. A. G. Shaver. 1,731,275; Oct. 15.
- Train-control system. A. G. Shaver. 1,734,603; Nov. 5.
- Train-control system, Automatic. C. S. Bushnell. 1,730,842-8; Oct. 8.
- Train-control system, Automatic. W. K. Howe. 1,710,663; Apr. 23.
- Train-control system, Automatic. W. K. Howe. 1,730,324; Oct. 1.
- Train-control system, Automatic. J. A. Peabody. 1,730,825; Oct. 8.



- Train-control system, Automatic. N. D. Preston. 1,733,976; Oct. 29.
- Train-control system, Continuous inductive. C. F. Estwick. 1,710,657; Apr. 23.
- Train-control system, Continuous inductive. W. D. Hailes. 1,720,631; July 9.
- Train-control system, Continuous inductive. W. K. Howe. 1,703,821; Feb. 26.
- Train-control system, Continuous inductive. W. H. Reichard. 1,703,831; Feb. 26.
- Train-control system, Continuous inductive. W. W. Wenholz. 1,706,832; Mar. 26.
- Train-control system for curve protection, Induction. A. G. Shaver. 1,734,602; Nov. 5.
- Train-control system for railroads. C. S. Bushnell. 1,717,330-2; June 11.
- Train-control system for railroads. W. D. Hailes. 1,736,728; Nov. 19.
- Train-control system, Induction. F. M. Rosenzweig. 1,722,827; July 30.
- Train-control system, Induction. A. G. Shaver and F. M. Rosenzweig. 1,741,440; Dec. 31.
- Train-control system, Intermittent inductive. A. C. C. F. Estwick. 1,706,844; Mar. 26.
- Train control, System of. O. S. Field. 1,736,397; Nov. 19.
- Train-control system, Permissive automatic. C. S. Bushnell. 1,730,317; Oct. 1.
- Train-control system, Railway-. T. E. and J. E. Clark. 1,712,981; May 14.
- Train-control systems, Receiving device for intermittent inductive. C. S. Bushnell. 1,733,982; Oct. 29.
- Train-control systems, Trackway apparatus for. W. K. Howe and C. S. Bushnell. 1,741,775; Dec. 31.
- Train-controlling means by light rays. W. Bäseler. 1,717,752; June 18.
- Train-controlling system. F. A. Nixon. 1,727,407; Sept. 10.
- Train-dispatching system for railroads. S. N. Wight. 1,713,496; May 14.
- Train-indication system. G. C. Whitney. 1,706,013; Mar. 19.
- Train-line coupling, Electric-. A. C. Savage. 1,739,421; Dec. 10.
- Train-order and traffic signal, Combined. J. Bennett. 1,730,314; Oct. 1.
- Train-order hoop. S. Smith. 1,740,206; Dec. 17.
- Train-pipe coupling, Automatic. J. Robinson. 1,737,687; Dec. 3.
- Train recorder, Automatic. C. G. Harwig. 1,741,936; Dec. 31.
- Train signal. W. Bourg. 1,703,055; Feb. 19.
- Train signal, Mechanical. R. E. Barrett. 1,738,278; Dec. 3.
- Train stop and signal system. R. V. Appleton. 1,704,116; Mar. 5.
- Train-stop-control device. H. Arndt. 1,723,835; Aug. 6.
- Train-stop system. P. F. Smith, jr. 1,705,191-2; Mar. 12.
- Train-stop system, Automatic. P. J. Clifford. 1,729,705; Oct. 1.
- Train-stopping and speed-controlling mechanism. F. C. Williams. 1,734,509; Nov. 5.
- Train works, Device for preventing. G. M. Flowers. 1,721,108; July 16.
- Trains, Control system for railway. T. E. and J. E. Clark. 1,706,022; Mar. 19.
- Trains independently of the driver, Device for stopping railway. W. Meuche. 1,729,397; Sept. 24.
- Tramway, Elevated. C. F. Bledsoe. 1,721,684; July 23.
- Transcriber and recorder of telegraphic signals, Automatic. R. E. M. Pénot. 1,723,250; Aug. 6.
- Transfer and method of protecting and decorating surfaces. C. D. Higginson. 1,736,597; Nov. 19.
- Transfer device. A. H. Hannon. 1,706,526; Mar. 26.
- Transfer device for finely-ground material. H. Peikert. 1,719,996; July 9.
- Transfer element and apparatus for varnishing, painting, or printing. C. Wagner and A. Hormel. 1,698,747; Jan. 15.
- Transfer mechanism. C. O. Petitjean. 1,699,569; Jan. 22.
- Transfer metallic media. W. F. Grupe. 1,710,309; Apr. 23.
- Transfer rolls, Method of and apparatus for making. L. V. Casto. 1,720,719; July 16.
- Transfer switch, Single-pole double-. C. F. James. 1,717,383; June 18.
- Transfer table. L. Richardson. 1,718,077; June 18.
- Transfer work, Producing. R. W. Terlinden. 1,713,151; May 14.
- Transferrer arms, Revolver for regularly-moving. O. V. Payne. 1,739,172; Dec. 10.
- Transferring and multiplying on photographic wire images upon printing plates, Apparatus for. F. G. Mortelmans and W. J. Meijer. 1,698,141; Jan. 8.
- Transferring device. T. Lund. 1,703,198; Feb. 26.
- Transferring device. J. L. McMillan. 1,736,164; Nov. 19.
- Transferring freight, Method and apparatus for. A. F. Callison. 1,737,994; Dec. 3.
- Transferring knitted fabrics and mechanism for this purpose. L. N. D. Williams. 1,715,399; June 4.
- Transferring knitted fabrics, Device for. L. N. D. Williams. 1,712,100; May 7.
- Transferring lubricants and the like, Device for. A. Wunderlich. 1,711,193; Apr. 30.
- Transferring means, Sound-. W. Hahnemann, H. Hecht, and B. Settegast. 1,702,346; Feb. 19.
- Transferring mechanism, Ware-. W. T. Barker, jr. 1,705,955; Mar. 19.
- Transferring powder and the like, Apparatus for. E. Payne. 1,721,258; July 16.
- Transferring slit webs. H. A. W. Wood. 1,726,788; Sept. 3.
- Transformation box. R. Monheim. 1,703,159; Feb. 26.
- Transformation effects, Producing. R. M. Craig. 1,698,222; Jan. 8.
- Transformer. F. F. Brand. 1,713,214; May 14.
- Transformer. L. H. Burnham. 1,723,840; Aug. 6.
- Transformer. G. Camilli. 1,717,347; June 11.
- Transformer. R. P. Higbee. 1,716,553; June 11.
- Transformer. L. H. Hill. 1,732,719; Oct. 22.
- Transformer. S. Horelick. 1,740,093; Dec. 17.
- Transformer. A. A. Kent. 1,719,057; July 2.
- Transformer. E. A. Kuen. 1,718,826; June 25.
- Transformer. K. K. Paluett. 1,701,334; Feb. 5.
- Transformer. K. K. Paluett. 1,741,200; Dec. 31.
- Transformer. W. E. Paul. 1,708,775; Apr. 9.
- Transformer. E. S. Piper. 1,698,608; Jan. 8.
- Transformer. E. N. Rauland. 1,707,023; Mar. 26.
- Transformer. F. W. Roller. 1,735,092; Nov. 12.
- Transformer. J. Romp and W. F. Brandsma. 1,718,080; June 18.
- Transformer. F. S. Smith. 1,703,408; Feb. 26.
- Transformer. F. M. Sparks. 1,700,689; Jan. 29.
- Transformer. H. O. Stephens. 1,706,193; Mar. 19.
- Transformer. F. C. Wappler. 1,741,265; Dec. 31.
- Transformer, Acoustic. P. A. Robbins. 1,704,840; Mar. 12.
- Transformer, Acoustic. P. A. Robbins. 1,703,487; Apr. 9.
- Transformer, Acoustic. P. A. Robbins. 1,730,528; Oct. 8.
- Transformer, Amplifying. Y. B. F. J. Groeneveld. 1,702,771; Feb. 19.
- Transformer and coil system. L. L. Jones. 1,732,937; Oct. 22.
- Transformer, Audio frequency. J. A. Victoreen. 1,703,912; Mar. 5.
- Transformer casing. H. Pofeldt. 1,729,085; Sept. 24.
- Transformer core. J. J. Frank. 1,717,200; June 11.
- Transformer-core structure. W. F. Hendry. 1,707,009; Mar. 26.
- Transformer, Current. A. Boyajian and G. Camilli. 1,706,139; Mar. 19.
- Transformer cut-out. R. W. Shoemaker. 1,731,594; Oct. 15.
- Transformer device. M. Morrison. 1,696,964; Jan. 1.
- Transformer, Electric. J. B. Hoddum. 1,706,574; Mar. 26.
- Transformer, Electric. A. Huet. 1,724,935; Aug. 20.
- Transformer, Electric. F. S. Smith. 1,703,410; Feb. 26.
- Transformer, Electrical. W. M. Bailey. 1,706,837; Mar. 26.
- Transformer for amplifier devices. F. Carbenay. 1,702,072; Feb. 12.
- Transformer for feeding polyphase rectifiers. J. Kübler. 1,719,892; July 9.
- Transformer, High-frequency. H. F. Elliott. 1,724,399; Aug. 13.
- Transformer, High-reactance. A. B. Hendricks, jr. 1,699,142; Jan. 15.
- Transformer, High-tension. W. Hess. 1,699,292; Jan. 15.
- Transformer, High-tension. H. B. Smith. 1,699,763; Jan. 22.
- Transformer, High-tension bushing. F. Andorff. 1,697,156; Jan. 1.
- Transformer, Lateral-drive speed. L. E. G. Buehler. 1,737,567; Dec. 3.
- Transformer of the shell type, Connecting. W. Reiche. 1,722,444; July 30.
- Transformer, Oil-cooled. J. Roothaan. 1,711,364; Apr. 30.
- Transformer relief diaphragm. L. H. Hill and W. M. Dann. 1,709,723; Apr. 16.
- Transformer, Rotary. M. Moneyron. 1,734,042; Nov. 5.
- Transformer, Speed. G. Krell and G. M. Martinet. 1,729,220; Sept. 24.
- Transformer system. A. L. Atherton. 1,729,091; Sept. 24.
- Transformer tap changer. W. M. Dann, C. L. Knotts, A. W. Thompson, and L. H. Hill. 1,732,742; Oct. 22.
- Transformer-tap-changing device. H. A. Travers. Re-17,230; Mar. 5.
- Transformer-tap-changing system. L. H. Hill. 1,709,724; Apr. 16.
- Transformer, Three-phased. H. R. Summerhayes. 1,722,181; July 23.
- Transformer unit. C. E. Stryker. 1,704,546; Mar. 5.
- Transformers, Connecting booster. J. Sessinghaus. 1,700,600; Jan. 29.
- Transformers, Protective system for. W. R. Farley. 1,729,099; Sept. 24.
- Transforming continuous rotary motion into oscillatory motion. H. V. Törnebohm. 1,706,595; Mar. 26.
- Transforming sound into electrical energy, Apparatus for. H. C. Hayes. 1,729,383; Sept. 24.
- Transfusion apparatus. R. W. Thayer. 1,725,318; Aug. 20.
- Transit system, Rapid-. A. L. Rowe. 1,741,203; Dec. 31.
- Translating apparatus, Electrical. L. O. Grondahl. 1,741,231; Dec. 31.
- Translating device. M. E. Macksoud. 1,727,373; Sept. 10.
- Translating device. S. V. Perry. 1,725,157; Aug. 20.
- Translating device, Electric. W. M. Bruce, jr. 1,706,480; Mar. 26.
- Translating device, Electromechanical. T. M. Edison. 1,741,226; Dec. 31.



- Translating rotary reciprocating motion. N. Miller. 1,716,788; June 11.
- Translating system for converting alternating current into direct current. M. C. Spencer. 1,708,908; Apr. 9.
- Translating unit, Electrical. W. C. Grunow. 1,702,159; Feb. 12.
- Transmission. E. Backhaus. 1,733,044; Oct. 22.
- Transmission. H. W. Baker. 1,710,855; Apr. 30.
- Transmission. G. B. Coleman. 1,703,061; Feb. 19.
- Transmission. G. B. Coleman. 1,707,050; Mar. 26.
- Transmission. G. B. Coleman. 1,721,432; July 16.
- Transmission. C. J. Doll. 1,723,770; Aug. 6.
- Transmission. E. L. Engelhardt. 1,716,216; June 4.
- Transmission. T. L. Fawick. 1,733,786; Oct. 29.
- Transmission. T. L. Fawick. 1,736,151; Nov. 19.
- Transmission. T. L. Fawick. 1,738,697; Dec. 10.
- Transmission. T. A. Flanders. 1,702,044; Feb. 12.
- Transmission. J. H. Gerson. 1,704,890; Mar. 12.
- Transmission. O. Janssen. 1,736,789; Nov. 26.
- Transmission. S. A. Jeffries. 1,725,142; Aug. 20.
- Transmission. A. H. Jessen. 1,707,399; Apr. 2.
- Transmission. R. E. Keller. 1,734,491; Nov. 5.
- Transmission. Y. Kikuchi. 1,735,685; Nov. 12.
- Transmission. J. M. Mann. 1,732,760; Oct. 22.
- Transmission. D. D. Maurer. 1,731,076; Oct. 8.
- Transmission. C. G. Parke. 1,730,897; Oct. 8.
- Transmission. O. M. Pope. 1,707,092; Mar. 26.
- Transmission. H. D. Rey. 1,699,715; Jan. 22.
- Transmission. H. D. Rey. 1,699,990; Jan. 22.
- Transmission. C. E. Starr. 1,724,321; Aug. 13.
- Transmission. B. Stevens. 1,726,246; Aug. 27.
- Transmission. E. Treece. 1,702,065; Feb. 12.
- Transmission. E. E. Wemp. 1,727,577; Sept. 10.
- Transmission and control means for machine tools, Fluid. F. A. Parsons. 1,740,744; Dec. 24.
- Transmission and control mechanism for machine tools. J. B. Armitage. 1,715,488; June 4.
- Transmission and control mechanism for machine tools. E. J. Kearney and J. B. Armitage. 1,715,604; June 4.
- Transmission and controlling mechanism therefor. M. Stucatur. 1,706,553; Mar. 26.
- Transmission and operating the same, Sliding-gear. J. Blackburn. 1,724,000; Aug. 13.
- Transmission and reception of wireless impulses, Selective. W. G. H. Finch. 1,713,468; May 14.
- Transmission apparatus. L. F. Meunier. 1,739,980; Dec. 17.
- Transmission appliance, Adjustable. B. Grossbard. 1,714,775; May 28.
- Transmission assembly. R. Hamilton. 1,722,665; July 30.
- Transmission, Automatic. W. E. Johnson. 1,727,603; Sept. 10.
- Transmission, Automatic. W. E. Johnson. 1,727,885; Sept. 10.
- Transmission, Automatic. D. W. Jones. 1,727,985; Sept. 10.
- Transmission, Automatic. K. E. Lyman. 1,741,853; Dec. 31.
- Transmission, Automatic. K. E. Lyman. 1,741,854; Dec. 31.
- Transmission, Automatic. K. E. Lyman. 1,741,855; Dec. 31.
- Transmission, Automatic. K. E. Lyman. 1,741,856; Dec. 31.
- Transmission, Automatic. K. E. Lyman. 1,741,859-61; Dec. 31.
- Transmission, Automatic. K. E. Lyman. 1,741,862-5; Dec. 31.
- Transmission, Automatic. K. E. Lyman and R. B. McMullen, jr. 1,741,857; Dec. 31.
- Transmission, Automatic. R. B. McMullen, jr. 1,741,858; Dec. 31.
- Transmission, Auxiliary. W. M. Baumheckel. 1,702,889; Feb. 19.
- Transmission, Auxiliary. J. C. Moore. 1,708,368; Apr. 9.
- Transmission, Ball. G. S. Morison. 1,738,662; Dec. 10.
- Transmission bands, Method of and apparatus for reducing width of. A. Carpe. 1,735,037; Nov. 12.
- Transmission belt and making the same. E. E. Davidson. 1,730,647; Oct. 8.
- Transmission, Carrier-wave. J. S. Jammer. 1,724,938; Aug. 20.
- Transmission-case cap. H. R. Lietzke. 1,735,826; Nov. 12.
- Transmission circuits. H. Whittle. 1,741,749; Dec. 31.
- Transmission-control mechanism. C. E. F. Ahlm and G. L. Elmslie. 1,716,335; June 4.
- Transmission control, Wave. I. G. Wilson. 1,704,850; Mar. 12.
- Transmission controller. A. E. Winckler. 1,711,868; May 7.
- Transmission-controlling mechanism. I. E. Coffey. Re17,346; July 2.
- Transmission-cover-locking means. C. L. Johnson. 1,724,939; Aug. 20.
- Transmission device. T. A. Banning, jr. 1,708,409; Apr. 9.
- Transmission device. F. W. Hild. 1,725,077; Aug. 20.
- Transmission device. L. Wojtyczski. 1,717,294; June 11.
- Transmission device, Speed-changing. J. H. Spangler. 1,717,632; June 18.
- Transmission, Double-clutch. H. D. Rey. 1,699,714; Jan. 22.
- Transmission efficiency, Control of the. K. K pfm ller, F. Tuczek, and H. Mayer. 1,737,503; Nov. 26.
- Transmission, Electromagnetic signal. E. Belin. 1,727,194; Sept. 3.
- Transmission, Electrooptical. L. G. Abraham. 1,705,551; Mar. 19.
- Transmission, Electrooptical. A. W. Kishpaugh. 1,707,486; Apr. 2.
- Transmission, Epicyclic ball. G. S. Morison. 1,735,616; Nov. 12.
- Transmission, Epicyclic double-reduction. G. S. Morison. 1,706,180; Mar. 19.
- Transmission, Flexible automatic. W. E. Johnson. 1,727,467; Sept. 10.
- Transmission, Fluid. O. Tolman. 1,733,286; Oct. 29.
- Transmission, Fluid control. C. E. Baker. 1,720,161; July 9.
- Transmission for machine-tool supports. J. B. Armitage. 1,726,377; Aug. 27.
- Transmission for motor boats. J. C. Roberts. 1,708,329; Apr. 9.
- Transmission for motor vehicle, Automatically-controlled. C. F. Kettering. 1,710,991; Apr. 30.
- Transmission for motor vehicles, Automatic. C. B. Jacobsen. 1,721,219; July 16.
- Transmission for motors or engines. J. H. Stringham. 1,735,840; Nov. 12.
- Transmission for spinning mules, Reversible. J. H. Rayalls. 1,736,627; Nov. 19.
- Transmission for vibratory elements, Duplex motive. G. Borkman. 1,722,656; July 30.
- Transmission-housing cover-locking means. C. L. Johnson. 1,717,452; June 18.
- Transmission, Hydraulic. W. Ferris. 1,726,481; Aug. 27.
- Transmission, Hydraulic. J. F. Gotchy. 1,726,822; Sept. 3.
- Transmission, Hydraulic. D. H. West. 1,722,832; July 30.
- Transmission level regulation. R. K. Potter. 1,721,574; July 23.
- Transmission-line conductors, Suspension means for. T. Varney. 1,722,118; July 23.
- Transmission-line tower. H. F. Frease. 1,728,050; Sept. 10.
- Transmission-line tower. P. H. Thomas. 1,715,479; June 4.
- Transmission lines, Protective system for. J. Sessinghaus. 1,715,679; June 4.
- Transmission lock. C. L. Johnson. 1,712,500; May 14.
- Transmission lock. C. L. Johnson. 1,741,990; Dec. 31.
- Transmission mechanism. W. B. Bronander. 1,702,627; Feb. 19.
- Transmission mechanism. L. F. Burnham, B. H. Slocum, and E. R. Weber. 1,705,713; Mar. 19.
- Transmission mechanism. G. C. Carhart. 1,703,473; Feb. 26.
- Transmission mechanism. G. C. Carhart. 1,713,024; May 14.
- Transmission mechanism. M. W. Carroll. 1,732,498; Oct. 22.
- Transmission mechanism. M. W. Elmendorf and E. B. Nichols. 1,718,223; June 25.
- Transmission mechanism. J. Habrie. 1,716,548; June 11.
- Transmission mechanism. E. W. Jackson. 1,703,846; Feb. 26.
- Transmission mechanism. F. A. Parsons. 1,730,161; Oct. 1.
- Transmission mechanism. C. Pulliam. 1,739,417; Dec. 10.
- Transmission mechanism. H. A. Rhodes. 1,730,165; Oct. 1.
- Transmission mechanism. C. G. Shields. 1,728,372; Sept. 17.
- Transmission mechanism. C. E. Starr. 1,706,551; Mar. 26.
- Transmission mechanism. O. O. Storie. 1,735,187; Nov. 12.
- Transmission mechanism. A. A. Wiedmaier. 1,719,861; July 9.
- Transmission mechanism. H. Williams. 1,726,132; Aug. 27.
- Transmission mechanism and brake. G. C. Carhart. 1,739,946; Dec. 17.
- Transmission mechanism, Automatic. J. Nelson. 1,736,663; Nov. 19.
- Transmission mechanism for drilling machines. B. F. Berry. 1,706,207; Mar. 19.
- Transmission mechanism for railroad rolling stock, Power. L. E. Keil. 1,710,360; Apr. 23.
- Transmission mechanism having power-operated clutch. G. C. Carhart. 1,708,440; Apr. 9.
- Transmission mechanism, Hydraulic. S. G. Wingquist. 1,714,652; May 28.
- Transmission mechanism, Motor-vehicle. W. Doblhoff. 1,739,129; Dec. 10.
- Transmission mechanism, Spindle-drive. J. J. Morris. 1,709,439; Apr. 16.
- Transmission mechanism, Variable. H. L. Kizzlar. 1,704,896; Mar. 12.
- Transmission, Multiple-speed hydraulic. E. L. Hoaglund. 1,704,606; Mar. 5.
- Transmission multiplication mechanism. A. Rossi. 1,703,016; Feb. 19.
- Transmission of energy, Directive. R. Gunn. 1,730,071; Oct. 1.
- Transmission of energy, Electrical. L. Levy. 1,734,038; Nov. 5.
- Transmission of pictures and views. C. A. Sabbah. 1,706,185; Mar. 19.



- Transmission of pictures by electricity. M. B. Long. 1,706,032; Mar. 19.
- Transmission of power. C. G. Garrard. 1,737,997; Dec. 3.
- Transmission of power or for use as brakes, Hydraulic. J. Geddes. 1,702,207; Feb. 12.
- Transmission of shocks in liquid conduits, Device for preventing. J. H. M. Heindorf. 1,707,912; Apr. 2.
- Transmission or brake band. H. J. Friedl. 1,698,475; Jan. 8.
- Transmission or brake band. J. F. Key. 1,700,537; Jan. 29.
- Transmission, Overgear. C. H. Sterling. 1,727,794-5; Sept. 10.
- Transmission, Overspeed. C. H. Sterling. 1,731,830; Oct. 15.
- Transmission, Planetary. E. L. Engelhardt. 1,740,010; Dec. 17.
- Transmission-regulating system for radio carrier telegraph systems. R. W. Deardorff. 1,697,905; Jan. 8.
- Transmission regulation. G. T. Lorraine. 1,734,219; Nov. 5.
- Transmission repeating system for radio and carrier telegraph systems. R. H. Clapp. 1,697,903; Jan. 8.
- Transmission, Shock-absorbing. B. F. Seymour. 1,719,382; July 2.
- Transmission, Speed-reducing. P. A. Friedell. 1,730,270; Oct. 1.
- Transmission, Synchronizing. P. L. Tenney and H. E. Fidler. 1,715,077; May 28.
- Transmission system. A. L. Atherton. 1,731,367; Oct. 15.
- Transmission system. A. L. De Leeuw. 1,732,122; Oct. 15.
- Transmission system. F. E. Field. 1,718,950; July 2.
- Transmission system. J. R. Fry. 1,722,045; July 23.
- Transmission system. C. W. Green. 1,739,668; Dec. 17.
- Transmission system. R. E. Hellmund. 1,709,665; Apr. 16.
- Transmission system. J. J. Kuhn. 1,733,609; Oct. 29.
- Transmitting system. D. G. Little. 1,712,572; May 14.
- Transmission system. F. Mohr. 1,715,561; June 4.
- Transmission system. L. M. Potts. 1,708,954; Apr. 16.
- Transmission system. S. B. Williams. 1,711,664; May 7.
- Transmission system, Carrier. E. L. Norton. 1,719,484; July 2.
- Transmission system, Duplex. H. Chireix. 1,740,969; Dec. 24.
- Transmission system, Electric. T. Zweigbergk. 1,706,276; Mar. 19.
- Transmission system for sound-carrying currents. D. B. Harris and O. W. Knauss. 1,733,194; Oct. 29.
- Transmission system, Hydraulic. J. A. Diener. 1,719,502; July 2.
- Transmission system, Loaded. T. Shaw. 1,734,150; Nov. 5.
- Transmission, System of electric. P. H. Thomas. 1,724,437; Aug. 13.
- Transmission system, Selective. J. W. Horton. 1,708,945; Apr. 16.
- Transmission-system switch. T. Panzerbieter and W. Nagel. 1,718,251; June 25.
- Transmission tower. W. W. Woodruff, R. L. Jenner, and A. H. Reeves. 1,705,104; Mar. 12.
- Transmission tower, Two-circuit. P. H. Thomas. 1,741,963; Dec. 31.
- Transmission unit. F. V. Donald. 1,734,718; Nov. 5.
- Transmission, Variable-speed. A. A. Heinzelman. 1,725,001; Aug. 20.
- Transmission, Variable-speed. G. B. Reina. 1,738,965; Dec. 10.
- Transmission, Vehicle. T. B. Tyler. 1,702,752; Feb. 19.
- Transmission, Volume control of. E. I. Green. 1,738,000; Dec. 3.
- Transmission with control at side. P. L. Tenney. 1,727,622; Sept. 10.
- Transmission with repeaters, Two-way. S. B. Wright. 1,734,104; Nov. 5.
- Transmissions, Adjustable eccentric drive for. C. J. Doll. 1,700,562; Jan. 29.
- Transmitter. W. D. Pack. 1,724,360; Aug. 13.
- Transmitter. A. B. Smith. 1,706,191; Mar. 19.
- Transmitter, Condenser. J. E. Aiken. 1,696,898; Jan. 1.
- Transmitter, Electrical code. W. C. Roe. 1,737,024; Nov. 26.
- Transmitter, Microphonic. G. B. French. 1,730,813; Oct. 8.
- Transmitter, Sound-amplifying. L. Steinberger. 1,726,932; Sept. 3.
- Transmitter, Thermionic-tube. W. Schaffer. 1,697,208; Jan. 1.
- Transmitting and receiving sound waves in water on board ship from ships, Device for. W. Kunze. 1,719,937; July 9.
- Transmitting and receiving telegraph message in code, Apparatus for. A. G. Damm. 1,715,904; June 4.
- Transmitting angular motion, System for. A. L. R. Ellis. 1,706,149; Mar. 19.
- Transmitting apparatus, Sound-. E. Wilkens. 1,737,346; Nov. 26.
- Transmitting device, Impulse-. J. G. Blessing. 1,715,157; May 28.
- Transmitting device, Motion-. L. H. Noah. 1,703,497; Feb. 26.
- Transmitting mechanism and clutch, Motion-. C. B. Spase. 1,703,502; Feb. 26.
- Transmitting messages through submarine and like cables, Means of and apparatus for. W. Estaugh. 1,717,017; June 11.
- Transmitting pictures, Apparatus and method for. A. Weaver. 1,709,926; Apr. 23.
- Transmitting pressure impulses, Device for. M. Eule. 1,735,964; Nov. 19.
- Transmitting the speech by high-frequency waves. W. E. E. Habann. 1,739,455; Dec. 10.
- Transmitting variable rotation. C. Smith. 1,729,911; Oct. 1.
- Transmitting views or images to a distance, Apparatus for. J. L. Baird. 1,699,270; Jan. 15.
- Transmitting written characters, Method and apparatus for. Heinz Fein. 1,722,940; July 30.
- Transom stay. E. J. Sibley. 1,713,562; May 21.
- Transport device for damaged vehicles. A. E. Lake. 1,739,364; Dec. 10.
- Transportation of persons, Arrangement for the intense. F. Kruckenberg. 1,725,653; Aug. 20.
- Transportation system. H. W. Kirchner. 1,716,588; June 11.
- Transportation system. W. A. Ross. 1,734,303; Nov. 5.
- Transportation system. M. H. Tuttle. 1,701,647; Feb. 12.
- Transporter. L. E. de Neergaard. 1,731,455; Oct. 15.
- Transporter. V. Dutkiewicz. 1,719,758; July 2.
- Transporter. W. E. MacKenzie. 1,716,234; June 4.
- Transporter. W. H. Vogel. 1,731,447; Oct. 15.
- Transporting apparatus, Concrete-. H. W. St. John. 1,725,681-2; Aug. 20.
- Transporting concrete. E. S. Philips. 1,734,980-1; Nov. 12.
- Transporting device. R. J. McKee. 1,736,795; Nov. 26.
- Transposing device for tabulating machines. J. W. Bryce and A. W. Mills. 1,729,028; Sept. 24.
- Transporting mechanism for hoisting machines. R. M. Lovejoy. 1,702,698; Feb. 19.
- Transporting rails of relatively great length. J. Wattmann. 1,704,269; Mar. 5.
- Transposition pin. R. Weimar. 1,712,860; May 14.
- Trap: See—
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|----------------------|------------------|
| Animal trap.         | Lobster trap.    |
| Bird trap.           | Master trap.     |
| Burglar-alarm trap.  | Mercury trap.    |
| Burglar trap.        | Minnow trap.     |
| Cage trap.           | Mole trap.       |
| Clay-pigeon trap.    | Mousetrap.       |
| Drain trap.          | Oil trap.        |
| Drowning trap.       | Radiator trap.   |
| Dust trap.           | Radio wave trap. |
| Fish trap.           | Rat trap.        |
| Fluid trap.          | Return trap.     |
| Fly and insect trap. | Rodent trap.     |
| Game trap.           | Seed trap.       |
| Gopher trap.         | Steam trap.      |
| Insect trap.         | Target trap.     |
| Jump trap.           | Vermint trap.    |
- Trap. J. W. H. Bales. 1,703,288; Feb. 26.
- Trap. J. O. Bewan. 1,729,493; Dec. 17.
- Trap. M. Bilinski. 1,727,325; Sept. 10.
- Trap. A. R. Orgill. 1,741,429; Dec. 31.
- Trap. L. L. Parker. 1,720,433; July 9.
- Trap. S. S. Pearl. 1,735,786; Nov. 12.
- Trap. P. J. Peterson. 1,707,740; Apr. 2.
- Trap. E. P. Seghers. 1,726,127; Aug. 27.
- Trap. E. P. Seghers. 1,726,195; Aug. 27.
- Trap. E. P. Seghers. 1,726,367; Aug. 27.
- Trap. H. W. Sudds. 1,727,083; Sept. 3.
- Trap. V. Westerlund. 1,738,623; Dec. 10.
- Trap. T. Winkler. 1,721,653; July 23.
- Trap. H. Wirth. 1,702,329; Feb. 19.
- Trap and door for vehicles, Pneumatically-operated. P. R. Forman. 1,730,880; Oct. 8.
- Trap and flow tank, Gas. W. G. McMurray. 1,710,178; Apr. 23.
- Trap and valve, Steam. M. P. Miller. 1,705,642; Mar. 19.
- Trap construction. H. C. Mohr. 1,725,470; Aug. 20.
- Trap construction, Drum-. D. I. Stone and D. S. Brown. 1,731,990; Oct. 15.
- Trap fitting, Sanitary. R. N. Murphy. 1,740,902; Dec. 24.
- Trap setter. L. Hoover. 1,727,773; Sept. 10.
- Trapping mechanism, Burglar-. P. R. Frailey. 1,731,097; Oct. 8.
- Trapping mice, Sanitary means and method for. H. D. Thayer. 1,709,199; Apr. 16.
- Traveler slide. P. C. Wilson. 1,722,618; July 30.
- Traveling bag. J. M. Brady. 1,705,149-50; Mar. 12.
- Traveling block. C. F. Pippen and E. B. Ormsby. 1,734,047; Nov. 5.
- Traveling-case frame. M. Axelman. 1,741,603; Dec. 31.
- Traveling gantry. R. W. Crist. 1,719,967; July 9.
- Traveling plant for the generation of high-pressure steam. O. H. Hartmann. 1,726,106; Aug. 27.
- Traverse mechanism for winding and reeling machines. C. C. Jessen. 1,706,530; Mar. 26.
- Traverse motion. S. J. Bishop. 1,722,173; July 23.
- Tray. D. Fisher. Des. 78,880; July 2.
- Tray. J. Korkames. 1,705,867; Mar. 19.
- Tray. J. Ruz. 1,713,147; May 14.
- Tray. M. Steiner. 1,733,838; Oct. 29.
- Tray. A. E. C. White. 1,732,824; Oct. 22.
- Tray. G. C. Wilson. 1,702,987; Feb. 19.
- Tray, Ash. R. G. Fleming. 1,738,566; Dec. 10.
- Tray, Ash. J. Kirkpatrick. Des. 79,432; Sept. 17.
- Tray, Ash. W. N. Nelson. Des. 79,300; Aug. 27.



- Tray, Ash. L. W. Roos. 1,699,160; Jan. 15.  
 Tray, Ash. H. A. Stern. 1,735,803; Nov. 12.  
 Tray, Ash. A. von Frankenberg. Des. 78,797-8; June 18  
 Tray attachment, Dental. N. Cohen. 1,704,122; Mar. 5.  
 Tray attachment for tables. W. C. Rastetter. 1,716,283;  
 June 4.  
 Tray attachment, Stove. O. E. Clithero. 1,708,497;  
 Apr. 9.  
 Tray, Automobile ash. R. Morales. 1,715,773; June 4.  
 Tray, Automobile repair. E. A. Hoot. 1,723,238; Aug. 6.  
 Tray, Binder. L. T. Le Febure. 1,736,925-6; Nov. 26.  
 Tray, Card-table. H. R. Naylor. 1,741,136; Dec. 24.  
 Tray, Check-sorting. G. W. Schulz. 1,699,025; Jan. 15.  
 Tray, Coin. J. W. Johnston. Des. 78,394; Apr. 30.  
 Tray, Combination sink and laundry. R. L. Barton.  
 Des. 78,499; May 14.  
 Tray, Combined washboard and laundry. R. L. Barton.  
 Des. 78,500; May 14.  
 Tray, Curb-service. M. A. Wittlinger. 1,738,415; Dec. 3.  
 Tray, Dental impression. N. B. Riddle. 1,728,137;  
 Sept. 10.  
 Tray, Dental impression. C. S. Ryerson. 1,725,830;  
 Aug. 27.  
 Tray, Detachable hose. G. Duesler. 1,704,825; Mar. 12.  
 Tray, Dresser. W. J. Hines. 1,711,412; Apr. 30.  
 Tray elevator. P. C. Wego. 1,736,472; Nov. 19.  
 Tray, Filing. J. E. Blaine. 1,740,424; Dec. 17.  
 Tray, Filing. G. Duthie-Strachan. 1,712,177; May 7.  
 Tray, Filing. E. Ohnstrand. 1,725,823; Aug. 27.  
 Tray, Filing. N. S. Welk. 1,710,753-4; Apr. 30.  
 Tray, Filing. N. S. Welk. 1,712,238; May 7.  
 Tray-filling machine. S. T. Hoyt and R. M. Botley.  
 1,740,893; Dec. 24.  
 Tray for bank windows, Shifttable. J. W. Ong. 1,733,131;  
 Oct. 29.  
 Tray for card-index systems. P. Gebser. 1,730,069; Oct. 1.  
 Tray for console sets or articles of analogous nature. L.  
 Hecht. Des. 77,486; Jan. 15.  
 Tray for dough proofers. J. C. Hanson and G. B. Eggert.  
 1,712,211; May 7.  
 Tray for ice-cream cones and other articles, Foldable  
 vending. C. H. Goodyear. 1,713,961; May 21.  
 Tray for jars, Display. M. Cohen. 1,706,955; Mar. 26.  
 Tray for loose-leaf binders, Posting. W. H. Browning.  
 1,706,912; Mar. 26.  
 Tray for refrigerated display counters, Baffle. J. K. Bond.  
 1,716,366; June 11.  
 Tray for refrigeration systems. G. W. Mason.  
 1,728,210; Sept. 17.  
 Tray for soda fountains and the like, Service. J. M. Mc-  
 Ginley. 1,733,535; Dec. 10.  
 Tray, Incubator. C. H. and E. B. Gladish. 1,703,339;  
 Feb. 26.  
 Tray, Individual pipe. F. B. Jennings. Des. 79,720;  
 Oct. 29.  
 Tray loader. P. F. C. Wilcke. 1,711,820; May 7.  
 Tray or similar article. W. M. Buttrick and R. P. Pipe-  
 roux. Des. 77,884; Mar. 5.  
 Tray or similar article. W. M. Buttrick and R. P. Pipe-  
 roux. Des. 77,887; Mar. 5.  
 Tray or similar article. L. A. Danco. Des. 78,012; Mar. 19.  
 Tray or similar article. R. P. Piperoux. Des. 78,783;  
 June 18.  
 Tray or similar article, Glass. J. C. Kelly. Des. 79,725;  
 Oct. 29.  
 Tray, Portable ash. J. H. Bruun. 1,699,278; Jan. 15.  
 Tray, Record. R. R. West. 1,721,240; July 16.  
 Tray, Revolving spice. C. E. Arthur. 1,732,298; Oct. 22.  
 Tray, Sanitary ice. B. C. Howlett. 1,726,071; Aug. 27.  
 Tray, Service. J. C. Farr. 1,700,834; Feb. 5.  
 Tray, Service. G. E. Whitney. 1,709,927-8; Apr. 23.  
 Tray, Serving. L. Levien. 1,711,502; May 7.  
 Tray, Smoker's. R. C. Bauspies. Des. 78,138; Apr. 2.  
 Tray, Smoker's. E. L. Griffith. Des. 77,828; Feb. 26.  
 Tray, Smoker's. R. T. Walaske. Des. 78,423; Apr. 30.  
 Tray, Tableware. H. Q. Rucker. Des. 78,125; Mar. 26.  
 Tray, Tobacco-can ash. V. E. Aceto. 1,701,833; Feb. 12.  
 Tray, Vanity. F. A. Harper. Des. 77,356; Jan. 1.  
 Tray, Vanity. W. C. McCartney. Des. 78,772; June 18.  
 Tray, Wardrobe. G. B. Hieber. 1,711,784; May 7.  
 Tray, Watch-crystal. T. Tobita. 1,733,565; Oct. 29.  
 Trays, Follower for card. F. L. G. Straubel. 1,741,743;  
 Dec. 31.  
 Tread. G. E. Whitlock. 1,739,997; Dec. 17.  
 Tread, Antislipping. H. B. P. Humphries. 1,714,026;  
 May 21.  
 Tread-applying mechanism. P. W. Lehman. 1,706,698.  
 Mar. 26.  
 Tread clearer. E. O. Carvin. 1,740,537; Dec. 24.  
 Tread for surfaced roads and pavements. T. J. Barrett.  
 1,720,461; July 9.  
 Tread member for boots and shoes and making the same.  
 C. Roberts. 1,727,412; Sept. 10.  
 Tread member for footwear. W. W. Evans. 1,708,127;  
 Apr. 9.  
 Tread-rolling device. C. H. Desautels. 1,740,579; Dec. 24.  
 Tread stock. W. B. Wescott. 1,714,995; May 28.  
 Tread, Traction. C. F. Ball. 1,706,473; Mar. 26.  
 Treadle-actuated mechanism. G. Julian. 1,716,536;  
 June 11.  
 Treadle switch, Step-operated. R. D. Conklin. 1,737,409;  
 Nov. 26.  
 Treating acidified mine water, Process and apparatus for.  
 J. T. Travers. 1,714,828; May 28.  
 Treating acidulous by-product calcium sulphate. R. S.  
 Edwards. 1,713,868; May 21.  
 Treating adsorbent materials. R. E. Manley. 1,702,738;  
 Feb. 19.  
 Treating and blending molders' sand, Apparatus for.  
 G. F. Royer. 1,736,055; Nov. 19.  
 Treating and handling fibrous pulp, Method of and appa-  
 ratus for. J. B. Hawley. 1,704,706; Mar. 12.  
 Treating and handling vegetable products, Method and  
 apparatus for. C. H. Plummer. 1,735,089; Nov. 12.  
 Treating and sowing guayule seed. W. B. McCallum.  
 1,735,835; Nov. 12.  
 Treating animal fibers. B. Schöner and P. Virck.  
 1,708,635; Apr. 9.  
 Treating antimonial ores. H. Goldmann. 1,719,657;  
 July 2.  
 Treating apparatus, Fruit-. A. W. Parker. 1,720,491;  
 July 9.  
 Treating apparatus, Hair and scalp. J. C. Brown.  
 1,698,533; Jan. 8.  
 Treating apparatus, Material-. A. E. Schulz. 1,701,639;  
 Feb. 12.  
 Treating apparatus, Shaft-. H. O. Lang and J. McGeorge.  
 1,697,820; Jan. 1.  
 Treating apparatus, Shoe-. F. W. Phillips. 1,698,274;  
 Jan. 8.  
 Treating arsenious ore. A. R. Lindblad. 1,729,351;  
 Sept. 24.  
 Treating benzol to eliminate corrosive properties. T. R.  
 Trainor. 1,711,367; Apr. 30.  
 Treating bituminous material. M. R. Cone. 1,698,877;  
 Jan. 15.  
 Treating blanks, Machine for. T. B. Clarke and L. H.  
 Bennion. 1,711,588; May 7.  
 Treating cane material. R. A. Marr. 1,717,800; June 18.  
 Treating cannery waste. J. T. Travers. 1,741,105;  
 Apr. 30.  
 Treating carbon from cracking stills. G. Egloff and H. P.  
 Benner. 1,705,179; Mar. 12.  
 Treating carbonaceous material in an electric furnace or the  
 like. J. J. Naugle. 1,731,473; Oct. 15.  
 Treating cellulose and cellulose-ester filaments and the  
 product thereof. H. P. Bassett. 1,722,171; July 23.  
 Treating cellulose and viscose products. R. G. Campbell.  
 1,732,832; Oct. 22.  
 Treating cellulose with lactic acid and product thereof.  
 H. Heimann and A. Bayerl. 1,728,206; Sept. 17.  
 Treating cellulosic material. H. Dreyfus. 1,711,110;  
 Apr. 30.  
 Treating chocolate, Apparatus for. W. E. Prescott and  
 J. P. Bunce. 1,727,444; Sept. 10.  
 Treating citrus fruits for the recovery of products thereof.  
 E. P. Stevenson. 1,731,476; Oct. 15.  
 Treating clay, Apparatus for. J. C. Black. 1,731,702;  
 Oct. 15.  
 Treating clayware, Method and apparatus for. W. E.  
 Cramer. 1,709,063; Apr. 16.  
 Treating composite wire. J. H. Ramage. 1,726,679;  
 Sept. 3.  
 Treating compounds preferably of a hydrocarbon nature,  
 Method and apparatus for. W. J. Knox. 1,715,239;  
 May 28.  
 Treating continuous sheet material, Apparatus for. W.  
 Fregard. 1,701,878; Feb. 12.  
 Treating copper slag. S. Yoshimoto. 1,728,095; Sept. 10.  
 Treating cotton fibers to produce woollike effects. A. Bod-  
 mer. 1,717,322; June 11.  
 Treating cotton plants. W. Eggert, jr. 1,698,539; Jan. 8.  
 Treating cracked hydrocarbons. G. Egloff and J. C. Mor-  
 rell. 1,725,068; Aug. 20.  
 Treating cypress. S. D. Butterworth. 1,736,186; Nov. 19.  
 Treating dairy products. S. B. Chambers. 1,735,313;  
 Nov. 12.  
 Treating device, Scalp-. T. H. Larson. 1,710,882; Apr. 30.  
 Treating electron-emission elements. S. Ruben. 1,739,044;  
 Dec. 10.  
 Treating emery wheels. C. L. Gehrlich. 1,735,747;  
 Nov. 12.  
 Treating emulsified oil, Apparatus for. G. Egloff.  
 1,722,041; July 23.  
 Treating emulsified oil, Apparatus for. G. Egloff and H.  
 P. Benner. 1,710,154; Apr. 23.  
 Treating emulsions. C. Fischer, jr. and W. T. Reddish.  
 1,710,159; Apr. 23.  
 Treating emulsions. C. Fischer, jr., and W. T. Reddish.  
 1,727,164; Sept. 3.  
 Treating fabrics. E. S. Chapin and A. H. Jacoby.  
 1,738,946; Dec. 10.  
 Treating fabrics, Apparatus for. E. S. Chapin and A. H.  
 Jacoby. 1,738,947; Dec. 10.  
 Treating fabrics with liquid, Device for. F. Hünckens.  
 1,702,779; Feb. 19.  
 Treating fabrics with liquids, Apparatus and method for.  
 C. P. Cole, sr. 1,702,535; Feb. 19.  
 Treating felt hats. J. Meyer. 1,702,658; Feb. 19.  
 Treating fibrous material. J. McIntosh. 1,697,077; Jan. 1.  
 Treating fibrous material, Method of and apparatus for.  
 J. N. Selvig. 1,718,587; June 25.  
 Treating fibrous material of vegetable, artificial, or ani-  
 mal origin. J. G. Kästner. 1,730,430; Oct. 8.  
 Treating finely-divided solids, Apparatus and method for.  
 V. S. Henry, A. Wright, and F. W. Young. 1,726,511;  
 Aug. 27.  
 Treating flax for spinning, Apparatus for. M. Waddell  
 and H. C. Watson. 1,722,164; July 23.



- Treating flexible sheet material. J. W. Cosgrove. 1,712,604; May 14.
- Treating floatant materials. J. J. McKeon. 1,739,162; Dec. 10.
- Treating fluid hydrocarbons. F. B. Fretter. 1,707,606; Apr. 2.
- Treating fluids with ultra-violet light, Apparatus for. F. E. Goodall and R. H. Van Sant. 1,735,610; Nov. 12.
- Treating foils of cellulose or derivatives thereof by means of suitable fluids, Method of and apparatus for. K. Bratring. 1,728,471; Sept. 17.
- Treating foods. J. W. D. Chesney. 1,704,173; Mar. 5.
- Treating fresh fruit for the market. H. B. Slater. 1,719,567; July 2.
- Treating fruit and the like. H. C. Ricketts. 1,700,908; Feb. 5.
- Treating fruit and the like, Apparatus for. A. Haworth. 1,703,144; Feb. 26.
- Treating fruit and the like, Protectively. E. M. Brogden. 1,738,864; Dec. 10.
- Treating fruits, Apparatus for. E. C. and E. D. Eberts and W. L. Hooker. 1,727,967; Sept. 10.
- Treating fruits, especially raisins. T. W. W. Forrest. 1,711,729; May 7.
- Treating fur. C. Falck. 1,715,747; June 4.
- Treating fur, Method and machine for. M. Lazow. 1,699,977; Jan. 22.
- Treating furs and machine therefor. M. and J. Buono. 1,706,392; Mar. 26.
- Treating garbage. E. H. Brune. 1,700,608; Jan. 29.
- Treating glass for illumination purposes. S. G. Nye. 1,736,619; Nov. 19.
- Treating glass plates and the like to prevent moisture affecting their transparency. O. Demaret. 1,705,453; Mar. 12.
- Treating grain. H. J. White. 1,706,760; Mar. 26.
- Treating green food. K. Schmidt. 1,703,782; Feb. 26.
- Treating green food, Apparatus for. K. Schmidt. 1,703,783; Feb. 26.
- Treating greensand and the like. A. J. Moxham. 1,737,263; Nov. 26.
- Treating gypsum. R. E. Haire. 1,702,940; Feb. 19.
- Treating hair. A. Kietz, W. F. Greenwald, and L. Weisberg. 1,720,220; July 9.
- Treating heavy vegetable oils. H. S. Adams and L. Meuser. 1,697,337; Jan. 1.
- Treating hemp waste. C. C. Beeth. 1,710,914; Apr. 30.
- Treating hides and skins. M. M. Merritt. 1,724,954; Aug. 20.
- Treating hides, skins, and leather, Machine for. A. F. Jones. 1,704,196; Mar. 5.
- Treating highly-porous paperlike material. K. L. Moses. 1,716,654; June 11.
- Treating hydrocarbon distillates and apparatus used in connection therewith, System of. C. W. Stratford. 1,736,018; Nov. 19.
- Treating hydrocarbon oil. J. C. Morrell. 1,710,063; Apr. 23.
- Treating hydrocarbon oil, Heat. E. C. D'Yarnett. 1,732,805; Oct. 22.
- Treating hydrocarbon-oil residues. F. M. Rogers. 1,698,452; Jan. 8.
- Treating hydrocarbon oils. O. Behimer. 1,709,302; Apr. 16.
- Treating hydrocarbon oils. J. C. Black and M. L. Chappell. 1,710,200; Apr. 23.
- Treating hydrocarbon oils. G. B. Bogart. 1,709,304; Apr. 16.
- Treating hydrocarbon oils. C. J. Greenstreet. 1,718,913; June 25.
- Treating hydrocarbon oils. F. W. Hall. 1,700,479; Jan. 29.
- Treating hydrocarbon oils, Apparatus for. J. B. Weaver. 1,708,247; Apr. 9.
- Treating hydrocarbons. J. C. Black and M. L. Chappell. 1,710,143; Apr. 23.
- Treating hydrocarbons. J. C. Clancy. 1,721,728; July 23.
- Treating hydrocarbons. C. P. Dubbs. 1,729,307; Sept. 24.
- Treating hydrocarbons. G. Egloff. 1,722,043; July 23.
- Treating hydrocarbons. G. Egloff. 1,733,654; Oct. 29.
- Treating hydrocarbons. J. F. Johnson. 1,735,462; Nov. 12.
- Treating hydrocarbons. J. C. Morrell. 1,733,620; Oct. 29.
- Treating hydrocarbons, Apparatus for. L. de Florez. 1,716,643; June 4.
- Treating hydrocarbons, Process and apparatus for. G. Egloff. 1,710,152; Apr. 23.
- Treating, impregnating, and stabilizing wood. G. E. Rice. 1,732,419; Oct. 22.
- Treating, impregnating, seasoning, and stabilizing wood. G. E. Rice. 1,732,420; Oct. 22.
- Treating kraut, Apparatus for. O. H. Hansen. 1,726,297; Aug. 27.
- Treating leather. A. H. Rosenthal. 1,705,311; Mar. 12.
- Treating leather and producing leather articles. D. M. Strauchen. 1,738,934; Dec. 10.
- Treating leather, Apparatus for. J. A. Millican. 1,716,076; June 4.
- Treating liquids, Apparatus for. A. Jensen. 1,738,953; Dec. 10.
- Treating liquids, Apparatus for continuously. A. E. Flowers. 1,701,068; Feb. 5.
- Treating liquids, Method and apparatus. C. B. Cushwa. 1,698,537; Jan. 8.
- Treating loaded submarine cables. J. J. Gilbert. 1,730,971; Oct. 8.
- Treating long-grained fibrous materials. T. Wensel. 1,713,683; May 21.
- Treating loose material, Apparatus for drying, charring, and otherwise. O. Döbelstein. 1,718,542-4; June 25.
- Treating low-carbon steel and the like. A. Fry. 1,700,674; Jan. 29.
- Treating lumber. D. Dierks. 1,735,001; Nov. 12.
- Treating machine, Fiber-. H. R. Swanson. 1,704,714; Mar. 12.
- Treating machine, Material-. W. H. Poesse. 1,727,410; Sept. 10.
- Treating machine, Material-. G. M. Soule. 1,727,417; Sept. 10.
- Treating machine, Seed-. H. R. Warren. 1,703,048; Feb. 19.
- Treating masonry surfaces. L. S. Wertz. 1,726,600; Sept. 3.
- Treating material containing lead and zinc values, Hydro-metallurgically. W. H. Corbould. 1,706,143; Mar. 19.
- Treating material in liquid state electrochemically. C. Longhi. 1,720,910; July 16.
- Treating material, Method of and apparatus for. C. Offenhauser. 1,734,824; Nov. 5.
- Treating materials. S. Hiller. 1,735,395; Nov. 12.
- Treating materials, Apparatus for. S. Hiller. 1,735,393; Nov. 12.
- Treating materials, Apparatus for. H. M. Robertson. 1,706,128; Mar. 19.
- Treating materials, incidental to dyeing. J. Macadam. 1,712,044; May 7.
- Treating materials to render them undesirable as a habitation for insects. H. Maxwell-Lefroy. 1,725,656; Aug. 20.
- Treating metal to remove scale. C. Fischer, jr., and L. A. Stegemeyer. 1,736,282; Nov. 19.
- Treating metallic bodies. R. W. Siler. 1,721,357; July 16.
- Treating metallic bodies, Apparatus for heat-. E. Romanelli. 1,698,824; Jan. 15.
- Treating metallic bodies on one surface. N. H. Schermer and C. G. Heilman. 1,716,191; June 4.
- Treating metals, Process and composition for. D. M. Tiller and W. W. Ferree. 1,731,641; Oct. 15.
- Treating milk. A. R. Thompson. 1,721,751; July 23.
- Treating milk and its products. O. F. Hunziker. 1,723,860; Aug. 6.
- Treating mineral oils. H. Blumenberg, jr. 1,713,252; May 14.
- Treating minerals, Process of and apparatus for. S. McKinley. Re17,212; Feb. 12.
- Treating molding sand, Method of and apparatus for. E. W. Campion and A. H. Dierker. 1,700,713; Jan. 29.
- Treating molds. H. C. Bugbird. 1,730,801; Oct. 8.
- Treating molds for producing soft castings. H. A. Myers. 1,706,858; Mar. 26.
- Treating of cereal substances. D. W. Kent-Jones and C. W. Chitty. 1,710,503; Apr. 23.
- Treatment of Montan wax. W. Pungs and M. Jahrstorfer. 1,737,975; Dec. 3.
- Treating oil and its constituents, Method of and apparatus for. R. Conrader. 1,701,870; Feb. 12.
- Treating oil, Apparatus for. G. Egloff and H. P. Benner. 1,733,655; Oct. 29.
- Treating oil, Apparatus for and method of. E. S. Pearce. 1,698,273; Jan. 8.
- Treating oil, Process and apparatus for C. P. Dubbs. 1,716,306; June 4.
- Treating oil shale. M. J. Trumble. 1,704,956; Mar. 12.
- Treating oil wells to enhance their productivity, Process and material for. A. H. Ackerman. 1,734,990; Nov. 12.
- Treating oils. C. E. Belknap. 1,704,277; Mar. 5.
- Treating oils. C. P. Dubbs. 1,729,303; Sept. 24.
- Treating oils. A. S. Morris. 1,714,231; May 21.
- Treating oils, Apparatus for. W. R. Howard. 1,715,066; May 28.
- Treating oils for distillation. J. M. McClave. 1,703,158; Feb. 26.
- Treating oils, Process and apparatus for. R. T. Pollock. 1,721,973; July 23.
- Treating oils, Process and apparatus for. G. D. White. 1,726,280; Aug. 27.
- Treating oleaginous materials. J. Davidson. 1,724,073; Aug. 13.
- Treating or retting fiber-bearing plants. M. Waddell and H. C. Watson. 1,708,812; Apr. 9.
- Treating ores. R. F. Meyer. 1,730,584; Oct. 8.
- Treating ores. T. A. Mitchell. 1,736,659; Nov. 19.
- Treating ores, Apparatus for. C. A. Brackelsberg. 1,729,534; Sept. 24.
- Treating ores containing precious metals, Cyanide process of. P. C. Schrapf. 1,734,306; Nov. 5.
- Treating outer covers for aircraft. K. Hürttle. 1,721,302; July 16.
- Treating oxidized ores of lead. N. C. Christensen. 1,726,258; Aug. 27.
- Treating paper pulp. R. G. Smith. 1,715,310; May 28.
- Treating partial oxidation products. J. H. James. 1,721,959; July 23.
- Treating petrogen-containing substances, Process and apparatus for. J. B. Jenson. 1,734,970; Nov. 12.
- Treating petroleum oil. J. C. Black. 1,704,588; Mar. 5.
- Treating petroleum oils, Apparatus for. A. D. David. 1,733,651; Oct. 29.



- Treating pipes, bars, etc., Apparatus for. K. T. Potthoff. 1,720,525; July 9.
- Treating plastic and other material, Heat-. R. E. Coleman. 1,727,964; Sept. 10.
- Treating polluted waste water. J. T. Travers. 1,703,373; Feb. 26.
- Treating process and apparatus, Oil-. J. R. Hall. 1,718,141; June 18.
- Treating railway and tramway rails, Apparatus for. C. J. Grist. 1,731,857; Oct. 15.
- Treating refractory material, Method, apparatus, and product of. E. L. Hauman. 1,702,942; Feb. 19.
- Treating refuse, Apparatus for. F. C. Evans. 1,729,572; Sept. 24.
- Treating residual oils. J. C. Morrell. 1,705,199; Mar. 12.
- Treating roofing material. F. C. Overbury. 1,704,053; Mar. 5.
- Treating rubber dispersions and products obtained thereby. J. McGavack. 1,730,518; Oct. 8.
- Treating rubber films. C. Plaet. 1,698,275; Jan. 8.
- Treating rubber, Process of and compound for. E. R. Bridgewater and A. S. Slack. 1,705,712; Mar. 19.
- Treating semisolids and liquids, Apparatus for. E. E. Lindsey. 1,705,822; Mar. 19.
- Treating sewage and industrial waste. Process of and materials for. J. T. Travers. 1,699,257; Jan. 15.
- Treating shale and other bituminiferous solids. W. H. Hampton. 1,703,192; Feb. 26.
- Treating sheet material. N. De Long. 1,724,644-5; Aug. 13.
- Treating sheets for tinning, Apparatus for. S. E. Diescher. 1,708,412; Apr. 9.
- Treating shucked oysters, Apparatus for. J. J. May and F. J. Shutz. 1,696,962; Jan. 1.
- Treating silicon steel. A. F. Murphy. 1,714,038; May 21.
- Treating silk-containing wool materials. D. C. Chisholm and J. A. Hannum. 1,735,420; Nov. 12.
- Treating skin products and article. A. Ferretti. 1,719,802; July 2.
- Treating solutions, Apparatus for. H. Frischer. 1,711,638; May 7.
- Treating sour cream. A. L. Rushton, M. M. Simpson, and H. C. Beckman. 1,731,868; Oct. 15.
- Treating soured or curdled milks for the recovery of butterfat therefrom. A. L. Rushton, M. M. Simpson, and H. C. Beckman. 1,731,869; Oct. 15.
- Treating spaghetti and similar foodstuffs. D. Di Leonardo. 1,716,966; June 11.
- Treating steel. H. J. Biefang. 1,699,683; Jan. 22.
- Treating steel, Apparatus for. H. W. Tinker. 1,709,160; Apr. 16.
- Treating sugar solutions to increase the sucrose content. W. H. Dickerson. 1,713,118; May 14.
- Treating sulphite-pulp waste. J. T. Travers. 1,699,258; Jan. 15.
- Treating sulphur. J. W. Schwab. 1,723,815; Aug. 6.
- Treating sulphur. E. F. White. 1,734,066; Nov. 5.
- Treating synthesis gases of synthetic-ammonia plants and apparatus therefor. W. H. Kniskern. 1,721,455; July 16.
- Treating talloel. W. Schultze. 1,736,802; Nov. 26.
- Treating tarry matter, heavy hydrocarbons, residues, and the like. A. S. Knowles. 1,717,884; June 18.
- Treating teeth and artificial dentures with color films. C. C. Limbirt. 1,712,043; May 7.
- Treating textile material, Method of and apparatus for. T. D. Ainslie. 1,700,481; Jan. 29.
- Treating the surfaces of hat bodies. V. Böhm. 1,713,641; May 21.
- Treating tile, Machine for. L. S. Jones, G. W. Fisher, and C. G. Henrikson. 1,699,972; Jan. 22.
- Treating trees. J. A. and P. H. Davey and C. L. Gaugler. 1,700,030; Jan. 22.
- Treating trees. J. A. and P. H. Davey and C. L. Gaugler. 1,702,337; Feb. 19.
- Treating vegetable fibers and fabrics. M. Melland. 1,717,991; June 18.
- Treating vegetable fibres in the presence of organic derivatives of cellulose. C. Dreyfus, R. G. Dort, and H. Platt. 1,725,857; Aug. 27.
- Treating waste liquor. E. L. Rinman. 1,699,808; Jan. 22.
- Treating waste sulphite liquor. G. C. Howard. 1,699,845; Jan. 22.
- Treating water and materials used in connection therewith. M. L. Frisher. 1,722,137; July 23.
- Treating wet raw materials in the manufacture of cement, Apparatus for. J. S. Fasting. 1,731,457; Oct. 15.
- Treating wood. L. P. Curtin. 1,698,622; Jan. 8.
- Treating wood. F. Lauter. 1,697,248; Jan. 1.
- Treating wood and fibers. G. E. Rice. 1,732,379; Oct. 22.
- Treatment and utilization of superheated steam, Method and apparatus for the. J. R. McDermet. 1,714,179; May 21.
- Treatment by pressure and heat of heavy mineral oils and carbon material. M. Hofäss. 1,729,943; Oct. 1.
- Treatment device, Scalp-. W. Meyer. 1,706,583; Mar. 26.
- Treatment of animal and vegetable fibers. M. Bergmann, E. Immendorfer, and H. Loewe. 1,737,104; Nov. 26.
- Treatment of artificial-silk yarns, Fluid. J. Brandwood. 1,720,760; July 16.
- Treatment of bituminous materials, Process and apparatus for. W. H. Hampton. 1,707,759; Apr. 2.
- Treatment of carbonaceous materials. A. M. A. Struben. 1,706,468; Mar. 26.
- Treatment of cellulose acetate. G. H. Ellis. 1,723,230; Aug. 6.
- Treatment of cellulose acetate artificial silk. A. J. Hall. 1,709,470; Apr. 16.
- Treatment of cellulose derivatives. G. H. Ellis. 1,716,721; June 11.
- Treatment of cellulose derivatives. G. H. Ellis. 1,723,271; Aug. 6.
- Treatment of comminuted carbonaceous material and the like in electric furnaces and the like. J. J. Naugle. 1,731,474; Oct. 15.
- Treatment of crude petroleum oil. D. E. Woods and D. J. Neel. 1,715,217; May 28.
- Treatment of deciduous fruit, Apparatus for. A. Guignard, A. Bosse, and J. Guignard. 1,707,610; Apr. 2.
- Treatment of distillates from processes of cracking petroleum oils. R. A. Halloran. 1,704,246; Mar. 5.
- Treatment of emulsion oils. E. H. Payne and S. A. Montgomery. 1,726,309-10; Aug. 27.
- Treatment of ends and edges of burned gypsum boards. S. L. Avery, Jr., and M. H. Basquin. 1,725,243; Aug. 20.
- Treatment of fabrics, Apparatus for. C. F. Ryley. 1,727,041; Sept. 3.
- Treatment of feed water for boilers, condensers, and the like. D. W. Kent. 1,725,925; Aug. 27.
- Treatment of felt and felt hat bodies. E. Böhm. 1,705,437; Mar. 12.
- Treatment of felt and felt hat bodies. E. Böhm. 1,729,474; Sept. 24.
- Treatment of fibers. A. E. Millington. 1,708,586; Apr. 9.
- Treatment of fibers of acetyl cellulose to produce woollike effects. R. Clavel. 1,716,423; June 11.
- Treatment of flax. O. D. Lucas. 1,733,742; Oct. 29.
- Treatment of fresh fruit, Preservative. E. M. Brogden. 1,732,118; Oct. 15.
- Treatment of fruit for the prevention of decay. W. R. Barger. 1,704,072-3; Mar. 5.
- Treatment of fruit for the prevention of decay. W. R. Barger. 1,704,456; Mar. 5.
- Treatment of hydrocarbon oil, Catalytic. G. Egloff and J. C. Morrell. 1,705,180; Mar. 12.
- Treatment of hydrocarbons. P. L. Young. 1,735,486; Nov. 12.
- Treatment of hydrocarbons, especially oils, by means of corona arc discharges. W. Esmarch. 1,708,126; Apr. 9.
- Treatment of hydrocarbons, Process and apparatus for the. J. C. Black. 1,706,396; Mar. 26.
- Treatment of iron pyrite. S. I. Levy. 1,730,514; Oct. 8.
- Treatment of leather. A. O. T. Beardmore. 1,704,718; Mar. 12.
- Treatment of light-metal alloys. J. A. Gann. 1,712,988-9; May 14.
- Treatment of light metals, Surface. E. C. Burdick. 1,709,894; Apr. 23.
- Treatment of liquid hydrocarbons, Apparatus for the. S. J. M. Auld, A. E. Dunsten, and P. H. Herring. 1,711,219; Apr. 30.
- Treatment of lubricating oils, Acid. G. F. Olsen. 1,704,206; Mar. 5.
- Treatment of magnesium and magnesium alloys to inhibit corrosion. A. C. Zimmerman. Re17,309; May 28.
- Treatment of magnesium-base alloys. J. A. Gann. 1,712,990; May 14.
- Treatment of magnetic materials. V. E. Legg. 1,715,713; June 4.
- Treatment of malleable castings. I. R. Valentine. 1,734,928; Nov. 5.
- Treatment of metals. F. C. Kelley. 1,718,563; June 25.
- Treatment of metals, Device for heat. E. F. Kenney and L. H. Winkler. 1,704,327; Mar. 5.
- Treatment of metals, Surface. M. Fourment. 1,726,481; Aug. 27.
- Treatment of mineral oils, Apparatus for the. W. F. Downs. 1,716,372; June 11.
- Treatment of mineral oils by heat. W. J. Perelis. 1,701,477; Feb. 5.
- Treatment of ores and metallurgical products. H. G. Heine. 1,731,898; Oct. 15.
- Treatment of ores for extracting metallic values therefrom. F. Dietzsch. 1,703,763; Feb. 26.
- Treatment of parts of the body by water, Apparatus for the external. D. Sarason. 1,732,380; Oct. 22.
- Treatment of pitches. O. D. Cunningham. 1,711,449; Apr. 30.
- Treatment of plant fibers. C. Masse. 1,719,066; July 2.
- Treatment of railway rails, Heat. E. F. Kenney. Re-17,240; Mar. 19.
- Treatment of residual liquor. L. Bradley and E. P. McKeefe. 1,702,586; Feb. 19.
- Treatment of rubber and like substances and the product thereof. A. Biddle. 1,716,478; June 11.
- Treatment of saline and alkaline solutions, Electrochemical. H. C. Parker. 1,726,236; Aug. 27.
- Treatment of scrap iron. A. Dossmann. 1,723,411; Aug. 6.
- Treatment of seeds. A. Klages. 1,706,695; Mar. 26.
- Treatment of skins of animals containing calcified formations. R. A. Germain. 1,725,629; Aug. 20.
- Treatment of slurries in rotary kilns. T. Rigby. 1,706,749; Mar. 26.
- Treatment of small metal-coated parts. C. E. Jones. 1,717,220; June 11.
- Treatment of solutions containing tin and arsenic for precipitation of tin. H. Harris. 1,714,667; May 28.
- Treatment of spaghetti. A. Gallerani. 1,726,661; Sept. 3.
- Treatment of steel, Heat. S. Makita. 1,733,669; Oct. 29.



- Treatment of substances, Method and apparatus for centrifugal. L. D. Jones. 1,711,533; May 7.
- Treatment of sulphide ores or sulphidic metallurgical products. F. Johannsen. 1,728,681; Sept. 17.
- Treatment of sulphur-bearing minerals. M. F. Coolbaugh and J. B. Read. 1,719,534; July 2.
- Treatment of tar. O. D. Cunningham. 1,711,448; Apr. 30.
- Treatment of the inner female genitals, Apparatus for hot. D. Sarason. 1,729,296; Sept. 24.
- Treatment of transparent material. C. E. Swett. 1,712,178; May 7.
- Treatment of vegetable fibrous material and resulting product. G. Heberlein. 1,731,245; Oct. 15.
- Treatment of vegetable fibrous material to produce wool-like effects. G. Heberlein. 1,717,316; June 11.
- Treatment of waste organic mixtures and the like, Apparatus for. G. T. Reich. 1,698,171; Jan. 8.
- Treatment of water. A. J. Dotterweich. 1,721,105; July 16.
- Treatment of wheat, Apparatus for the. L. Negro. 1,699,441; Jan. 15.
- Treatment of wood and like porous material. M. Smith. 1,699,635; Jan. 22.
- Treatment of yarns and fabrics. G. H. Ellis. 1,716,720; June 11.
- Treatment with fluids of yarns in chain warp and analogous form, Process for and apparatus for the. J. H. Holton. 1,708,417; Apr. 9.
- Treatments of hanks and the like, Device for the wet. A. Perl. 1,728,878; Sept. 17.
- Tree: See—
- Shoe-tree.
- Tree for footwear. H. J. Wilson. 1,733,041; Oct. 22.
- Tree protector. P. Mörk. 1,733,233; Oct. 29.
- Tree stand. E. Kemmerling. 1,715,557; June 4.
- Tree surgery. H. L. Levin. 1,726,708; Sept. 3.
- Trees, Apparatus for introducing substances into. W. H. Rankin. 1,718,195; June 18.
- Tremolo attachment. J. H. Hammond, jr. 1,702,079; Feb. 12.
- Trench cover. E. H. Stelzer. 1,732,288; Oct. 22.
- Trench-sheeting device. M. Farrar. 1,723,691; Aug. 6.
- Trenching device for irrigation or drainage, Subsurface. C. C. Palmerston. 1,699,912; Jan. 22.
- Trenching machine. C. H. Knauer. 1,729,744; Oct. 1.
- Trenches, Method of and apparatus for forming. R. F. Bennett. 1,698,529; Jan. 8.
- Trestle. A. W. Allyn. 1,726,375; Aug. 27.
- Trestle. J. L. Hilton. 1,710,644; Apr. 23.
- Trestle. O. Tjelde. 1,699,035; Jan. 15.
- Trestle, Folding. J. D. Thomas and J. E. Holeyton. 1,713,359; May 14.
- Trichlorobutylalcohol and 4-dimethylamino-1-phenyl-2,3-dimethyl-5-pyrazolone, Compound from. J. Callisen. 1,703,922; Mar. 5.
- Trigger mechanism for firearms. F. K. Elliott. 1,699,881; Jan. 22.
- Trigger mechanism for machine guns. C. Pfeiffer and F. T. Moore. 1,738,502; Dec. 3.
- Trigger switch. F. C. De Reamer. 1,723,016; Aug. 6.
- Trigger switch. W. Stumpf. 1,741,333; Dec. 31.
- Trim stud, Floating. J. H. Goss. 1,727,819; Sept. 10.
- Trimmer: See—
- Bolt-head trimmer. Pie trimmer.
- Lawn trimmer. Shoe-sole trimmer.
- Trimmer for buttonhole-sewing machines, Thread. A. F. Carlson. 1,705,044; Mar. 12.
- Trimmer for shoe soles, Edge. C. P. Bammer. 1,737,351; Nov. 26.
- Trimmer mechanism. H. J. Eberhardt. 1,715,697; June 4.
- Trimmer mechanism. B. H. Slocum. 1,729,460; Sept. 24.
- Trimming and cutting device. S. J. Haddad. 1,728,272; Sept. 17.
- Trimming and plaster stop for door and window frames. J. H. Kienzie. 1,726,742; Sept. 3.
- Trimming and process of making, Interlacing. A. W. Rockwood. 1,725,998; Aug. 27.
- Trimming cutter, Shoe-shank. H. Berger and J. Klestinski. 1,730,351; Oct. 8.
- Trimming device. H. E. Waner. 1,729,232; Sept. 24.
- Trimming device for building tires. O. Gandee. 1,702,113; Feb. 12.
- Trimming die. R. L. McNeill. 1,717,612; June 18.
- Trimming for automobiles, furniture and the like. H. W. Buhler. 1,730,558; Oct. 8.
- Trimming glass sheets, Apparatus for. W. Owen. 1,702,522; Feb. 19.
- Trimming machine. G. Boulton. 1,714,544; May 28.
- Trimming machine. J. A. Brogan. 1,740,451; Dec. 24.
- Trimming machine. W. J. De Witt. 1,700,197; Jan. 29.
- Trimming machine. C. A. Hagman. 1,725,267; Aug. 20.
- Trimming machine. P. R. Hoopes. 1,728,896; Sept. 17.
- Trimming machine. V. A. Smith and C. Backman. 1,716,742; June 11.
- Trimming machine. H. E. Wills. 1,722,549; July 30.
- Trimming machine, Box-blank. G. W. Swift, jr. 1,706,366; Mar. 19.
- Trimming machine, Edge. A. W. Marsik. 1,708,768; Apr. 9.
- Trimming machine for stone blocks, Edge. E. A. Chase. 1,704,855; Mar. 12.
- Trimming machine, Inseam. A. R. Morrill. 1,716,079; June 4.
- Trimming machine, Lining. G. Boulton. 1,700,624; Jan. 29.
- Trimming machine, Louis-beel breast-flap. F. Ricks and R. B. Woodcock. 1,708,401; Apr. 9.
- Trimming machine, Pile-fabric edge. E. A. Cuniff. 1,697,828; Jan. 1.
- Trimming machines, Punch holder for. C. T. Brennan. 1,700,735; Feb. 5.
- Trimming mechanism. A. E. Yates. 1,727,850; Sept. 10.
- Trimming mechanism, Selvage. E. J. Stanton and L. G. Roberts. 1,725,220; Aug. 20.
- Trimming or edging machine, Wood. J. C. Ramsey. 1,735,792; Nov. 12.
- Trimming press, Invent. A. D. Kessler. 1,698,637; Jan. 8.
- Trimming selvage edges of rubberized fabrics. A. P. Lewis. 1,724,208; Aug. 13.
- Trimming table. R. B. Taylor. 1,712,126; May 7.
- Triode tube. S. M. Kintner. 1,700,896; Feb. 5.
- Trip hook. R. N. Lyon. 1,738,657; Dec. 10.
- Trip-hook sling. W. F. Owens. 1,720,054; July 9.
- Tripod mount for antiaircraft machine guns. S. G. Green. 1,701,153; Feb. 5.
- Tripping mechanism for binder attachments. G. W. Witte. 1,705,322; Mar. 12.
- Trisazo dye and producing the same. H. E. Woodward. 1,716,098; June 4.
- Trisodium phosphate hydrate, Making a crystallized non-caking. L. K. Westbrook. 1,711,707; May 7.
- Trisodium phosphate, Neutral. C. F. Booth and A. B. Gerber. 1,700,973; Feb. 5.
- Trolley. J. J. Cumming. 1,731,737; Oct. 15.
- Trolley. A. L. Henry and G. S. Moore. 1,698,591; Jan. 8.
- Trolley. A. L. Henry and G. S. Moore. 1,703,768; Feb. 26.
- Trolley, Bent sliding. J. Bozowich. 1,729,924; Oct. 1.
- Trolley car. A. Scott. 1,731,442; Oct. 15.
- Trolley-conductor extension. D. C. Hersherberger. 1,700,586; Jan. 29.
- Trolley device. H. Holland. 1,716,057; June 4.
- Trolley for chain conveyers. A. R. Pribil. 1,721,316; July 16.
- Trolley, frog or switch, Adjustable. T. B. Forsyth. 1,711,883; May 7.
- Trolley head. W. H. Williamson. 1,733,926; Oct. 29.
- Trolley hoist, Electric. C. H. Rasmussen. 1,741,074; Dec. 24.
- Trolley, Ladle. E. H. Kendall. 1,741,315; Dec. 31.
- Trolley switch, Automatic. R. M. Robinson. 1,703,545; Feb. 26.
- Trolley system. W. Schaae. 1,731,940; Oct. 15.
- Trolley system, Monorail. L. Lidsky. 1,715,092; May 28.
- Trolley system, Overhead. S. S. Matthes. 1,731,170; Oct. 8.
- Trolley wheel. J. Neumann. 1,740,619; Dec. 24.
- Trolley wheel. T. H. Tisdall. 1,733,762; Oct. 29.
- Trolley-wire suspension. G. W. Bower. 1,728,820; Sept. 17.
- Trolley wires, Pull-off for. G. W. Bower. 1,734,892; Nov. 5.
- Trolling spoon. F. S. Tucker. 1,706,906; Mar. 26.
- Trombone. J. P. Kolar. 1,729,513; Sept. 24.
- Trouble-indicating system. M. L. Nelson. 1,733,466; Oct. 29.
- Trouble welding light. F. Finkbeiner. 1,726,550; Sept. 3.
- Trough. A. A. Kramer. 1,727,610; Sept. 10.
- Trough, Covered. J. H. Uhrig. 1,697,889; Jan. 8.
- Trough, Feed. D. E. Speicher and E. C. Faust. 1,709,753; Apr. 16.
- Trough, Feed. S. G. Williams. 1,742,019; Dec. 31.
- Trough, Flume and settling. P. R. G. Biedermann. 1,699,948; Jan. 22.
- Trough for wet-spinning machinery. J. Opitz. 1,726,117; Aug. 27.
- Trough, Poultry watering. L. R. Oakes. 1,716,239; June 4.
- Trough, Sanitary feed. H. Jacot. 1,737,797; Dec. 3.
- Trousers seat and pad, Inside. G. W. Mock. 1,711,611; May 7.
- Trousers. J. Haspel. 1,699,394; Jan. 15.
- Trousers. J. Hersher. Des. 80,120; Dec. 17.
- Trousers. D. Sacks and M. Goldberg. 1,735,657; Nov. 12.
- Trousers and belt, Combined. A. Jonas. 1,718,049; June 18.
- Trousers hanger. J. G. Medlenka. 1,723,292; Aug. 6.
- Trousers stretcher. E. Baer. 1,725,387; Aug. 20.
- Trousers stretcher and shaper. W. H. Schumacher. 1,720,970; July 16.
- Trowel, Garden. C. L. W. Grant. 1,713,529; May 21.
- Truck. A. J. Bentley. 1,728,920; Sept. 24.
- Truck. T. V. Buckwalter. 1,722,035; July 23.
- Truck. F. A. Clifford. 1,697,346; Jan. 1.
- Truck. T. F. Cullinan. 1,704,884; Mar. 12.
- Truck. T. C. Hollnagel. 1,717,843; June 18.
- Truck. G. J. Kalberer. 1,740,404; Dec. 17.
- Truck. R. Leon. 1,714,383; May 21.
- Truck. R. D. Marx. 1,729,667; Oct. 1.
- Truck. J. C. Morrison. 1,728,436; Sept. 17.
- Truck. A. F. Shirreff. 1,730,481; Oct. 8.
- Truck. J. T. Siner. 1,704,769; Mar. 12.
- Truck. O. Twelt. 1,698,248; Jan. 8.
- Truck. L. E. Wilson. 1,716,611; June 11.
- Truck and bag holder. W. F. Scheffler. 1,713,095; May 14.
- Truck and lateral-motion device. E. W. Webb. 1,728,459; Sept. 17.
- Truck and trailer construction. W. H. Brown. 1,707,345; Apr. 2.



- Truck attachment, Automotive. B. F. B. Sewell. 1,722,061; July 23.
- Truck attachment, Hand-. H. M. Perry. 1,709,737; Apr. 16.
- Truck, Automatic dumping. E. Eisenhut. 1,705,968; Mar. 19.
- Truck, Automobile. R. J. Burrows. 1,707,428; Apr. 2.
- Truck, Barrel. P. B. Cole. 1,738,096; Dec. 3.
- Truck, Barrel. W. E. Van Duzer. 1,709,925; Apr. 23.
- Truck, Basket. W. D. Van de Mark and G. G. Raymond. 1,706,267; Mar. 19.
- Truck body. R. A. Fontaine. 1,736,074; Nov. 19.
- Truck body. W. G. Mayer. 1,730,940; Oct. 8.
- Truck body. L. J. Styslinger. 1,708,639; Apr. 9.
- Truck body, Gravity-dumping. D. A. Robinson. Re17,497; Nov. 19.
- Truck bolster. W. B. Gregg. 1,725,912; Aug. 27.
- Truck bolster and side bearing. M. H. Martin. 1,732,102; Oct. 15.
- Truck-bolster construction, Car-. H. W. Stertzbach. 1,713,059; May 14.
- Truck bolster, Railway-car-. M. H. Martin. 1,731,470; Oct. 15.
- Truck, Box piling. J. Schlothman. 1,719,197; July 2.
- Truck brake, Depot. B. Brownson. 1,726,141; Aug. 27.
- Truck, Car. D. S. Barrows. 1,717,648; June 18.
- Truck, Car. S. P. Bush. 1,706,770; Mar. 26.
- Truck, Car. S. P. Bush. 1,709,003; Apr. 16.
- Truck, Car. S. P. Bush. 1,713,497; May 14.
- Truck, Car. S. P. Bush. 1,733,682; Oct. 29.
- Truck car. A. T. Clark, H. A. Leonhauser, and J. R. Jester. 1,730,917; Oct. 8.
- Truck, Car. I. C. Hicks. 1,740,511; Dec. 24.
- Truck, Car. B. W. Kadel. 1,711,568; May 7.
- Truck, Car. W. H. Mussey. 1,701,271; Feb. 5.
- Truck, Car. W. H. Mussey. 1,716,146; June 4.
- Truck, Car. S. S. Whipples. 1,704,452; Mar. 5.
- Truck-centering device. J. G. Blunt. 1,739,283; Dec. 10.
- Truck-centering device. G. Genzlinger. 1,707,354; Apr. 2.
- Truck-centering mechanism. W. E. Woodward. 1,707,339; Apr. 2.
- Truck construction, Car-. J. C. Whitridge. 1,708,990; Apr. 16.
- Truck construction, Railway-. J. A. McCormick. 1,702,266; Feb. 19.
- Truck, Conveyer. H. H. Barber. 1,719,919; July 9.
- Truck, Costumer ladder. R. B. Holt. 1,701,951; Feb. 12.
- Truck, Electric motor. J. A. Wright. 1,728,847; Sept. 17.
- Truck, Elevating. D. E. Hennessy. 1,741,712; Dec. 31.
- Truck, Elevating. B. F. McCollum and C. E. Thomas. 1,697,364; Jan. 1.
- Truck, Elevating. F. J. Shepard, jr. 1,700,382; Jan. 29.
- Truck, Elevating. N. Warshaw. 1,704,777; Mar. 12.
- Truck, Engine. H. R. Bartell. 1,729,434; Sept. 24.
- Truck, Equalizer. C. B. Harbison. 1,710,359; Apr. 23.
- Truck equalizer, Locomotive-. A. W. Bruce. 1,718,329; June 25.
- Truck extension frame, Hand-. E. Beard. 1,724,171; Aug. 13.
- Truck, Factory. J. H. Staley. 1,728,839; Sept. 17.
- Truck, Flexible tread. H. L. Mitchell. 1,725,817; Aug. 27.
- Truck for articulated cars. R. W. Joy. 1,727,649; Sept. 10.
- Truck for electrical apparatus. A. Zelewski. 1,733,043; Oct. 22.
- Truck for portable structures. H. W. Benton. 1,708,046; Apr. 9.
- Truck for railroad vehicles. J. G. Blunt. 1,740,150; Dec. 17.
- Truck for railroad vehicles. A. W. Bruce. 1,739,123; Dec. 10.
- Truck for railroad vehicles. H. A. Frackelton. 1,733,590; Oct. 29.
- Truck for railway rolling stock. B. W. Kadel and D. S. Barrows. 1,727,886; Sept. 10.
- Truck for railway vehicles. H. C. Priebe. 1,697,513-4; Jan. 1.
- Truck for removing house refuse. P. Schubert. 1,739,183; Dec. 10.
- Truck for tractor-drawn implements. L. E. Smith. 1,740,751; Dec. 24.
- Truck for traveling cranes. W. B. Clarke. 1,699,047; Jan. 15.
- Truck, Four-wheel. J. C. Haggart, jr. 1,734,331; Nov. 5.
- Truck frame. C. B. Harbison. 1,733,344; Oct. 29.
- Truck framework, Creeper-. G. C. Jett. 1,720,553; July 9.
- Truck, Hand. A. D. Foory. 1,717,377; June 18.
- Truck, Hand. J. S. Gullborg. 1,719,763; July 2.
- Truck, Hand. F. J. Miller. 1,701,188; Feb. 5.
- Truck, Hand. O. W. Miller. 1,735,541; Nov. 12.
- Truck, Hand. G. G. Raymond. 1,706,253; Mar. 19.
- Truck, Hand lift-platform. J. R. Wyllie. 1,739,999; Dec. 17.
- Truck, High-lift. E. W. Weaver. 1,701,963; Feb. 12.
- Truck, Implement-transport. A. H. Sorenson. 1,710,122; Apr. 23.
- Truck, Industrial. E. J. Abbe. 1,738,272; Dec. 3.
- Truck, Industrial. W. C. Carr. 1,739,708; Dec. 17.
- Truck, Industrial. E. H. Remde. 1,713,780; May 21.
- Truck, Industrial. E. H. Remde. 1,720,237; July 9.
- Truck, Industrial. E. H. Remde. 1,740,712; Dec. 24.
- Truck, Industrial. R. T. Romine. 1,709,741; Apr. 16.
- Truck-lever spreaders, Making. W. H. Stocking. 1,707,543; Apr. 2.
- Truck, Lifting. A. M. Barrett. 1,707,971; Apr. 9.
- Truck, Lifting. W. Stuebing, jr. 1,706,194; Mar. 19.
- Truck, Load-elevating. S. G. Barnard. 1,733,988; Oct. 29.
- Truck, Loader. T. C. Harvey. 1,716,170; June 4.
- Truck, Locomotive. J. G. Blunt. 1,699,603; Jan. 22.
- Truck, Locomotive. M. Linton. 1,731,143; Oct. 8.
- Truck, Monorail car. P. S. Combs, jr. 1,740,416; Dec. 17.
- Truck, Motor-vehicle. G. I. Worley. 1,738,490; Dec. 3.
- Truck mounting. S. Eberly. 1,709,845; Apr. 23.
- Truck, Newspaper. M. H. Brandon. 1,722,193; July 23.
- Truck or tender truck, Freight-car. H. E. Doerr. 1,735,239; Nov. 12.
- Truck, Paper. A. J. Morrow. 1,704,139; Mar. 5.
- Truck pedestal, Car-. G. A. Woodman. 1,708,993; Apr. 16.
- Truck, Piano-moving. M. E. Adecock and A. E. Walden. 1,717,358; June 18.
- Truck, Pick-up. A. R. Pribil. 1,734,778; Nov. 5.
- Truck, Platform. H. T. Hallowell. 1,739,589; Dec. 17.
- Truck, Pole or tongue. W. J. Coultas and E. Rusco. 1,731,707; Oct. 15.
- Truck, Power-driven railway. W. J. Hagman. 1,698,588-9; Jan. 8.
- Truck, Railway. J. Aello. 1,740,914; Dec. 24.
- Truck, Railway. D. S. Barrows. 1,740,059; Dec. 17.
- Truck, Railway. D. S. Barrows. 1,740,143; Dec. 17.
- Truck, Railway. E. G. Hallquist. 1,740,508; Dec. 24.
- Truck, Railway. A. Kassler. 1,727,715; Sept. 10.
- Truck, Railway. O. K. Kjolseth. 1,701,375; Feb. 5.
- Truck, Railway-car. T. V. Buckwalter. 1,709,836; Apr. 23.
- Truck, Railway-car. T. V. Buckwalter. 1,731,291; Oct. 15.
- Truck, Railway-car. C. J. W. Clasen. 1,712,743-50; May 14.
- Truck, Railway-car. J. F. O'Connor. 1,716,658-9; June 11.
- Truck, Rayon. S. M. Chase. 1,722,454; July 30.
- Truck, Semisquare railroad-car. G. A. Boyden. 1,707,046; Mar. 26.
- Truck, Separable section. J. Ritter, jr. 1,705,536; Mar. 19.
- Truck, Seventy-ton car. W. C. Sleeman. 1,715,955; June 4.
- Truck side frame, Car-. G. T. Johnson and H. W. Stertzbach. 1,741,845; Dec. 31.
- Truck, Six-wheel. C. B. Harbison. 1,710,699; Apr. 30.
- Truck, Six-wheel. J. P. Madden and C. G. Nordstrom. 1,714,796; May 28.
- Truck, Six-wheel. W. E. Woodard. 1,714,581; May 28.
- Truck, Special. C. M. Eason. 1,713,271; May 14.
- Truck spring, Compensating. S. B. Brown. 1,702,809; Feb. 19.
- Truck structure for railway cars. E. W. Webb. 1,702,098; Feb. 12.
- Truck, Tank. F. L. Hayes. 1,696,954; Jan. 1.
- Truck-tank loading cap. C. F. H. Bohnhardt. 1,712,977; May 14.
- Truck, Tongue. W. J. Coultas. 1,731,453; Oct. 15.
- Truck, Towing. R. E. Manley. 1,722,585; July 30.
- Truck, Tractor. A. G. and A. Ronning. 1,698,277; Jan. 8.
- Truck, Trailer. H. M. Pfager. 1,717,622; June 18.
- Truck, Trailer. W. H. Sippel. 1,723,085; Aug. 6.
- Truck, Trailer. T. and C. Thompson. 1,741,445; Dec. 31.
- Truck, Tramway-. J. A. Wright. 1,731,961; Oct. 15.
- Truck, Transport. M. P. Holmes. 1,725,081; Aug. 20.
- Truck, Utility. W. E. Dixon. 1,725,624; Aug. 20.
- Truck, Warehouse. A. J. Morrow. 1,725,095; Aug. 20.
- Truck wheel. J. E. Broxon. 1,698,534; Jan. 8.
- Trucks, Centering appliance for locomotive trailing. J. G. Blunt. 1,740,440; Dec. 24.
- Trucks, Dump body for. G. R. Haggard. 1,734,725; Nov. 5.
- Trucks for railway and like vehicles, Construction of bogie. G. H. Sheffield and J. D. Twinberrow. 1,700,688; Jan. 29.
- Trucks, Unloading attachment for hand. W. L. Phillips. 1,710,893; Apr. 30.
- Truing and dressing grinding wheels, Mechanism for. F. J. Hohnhorst and F. J. Kroeger. 1,715,835; June 4.
- Truing device. H. D. Munday. 1,727,112; Sept. 3.
- Truing up the measuring jaws of sliding calipers. E. Challet. 1,713,743; May 21.
- Trump indicator. L. Solinger. 1,734,650; Nov. 5.
- Trumpet. C. E. Acheson. 1,724,632; Aug. 13.
- Trundle, Hoop. C. P. Roth. 1,714,448; May 21.
- Trunk. C. L. Halladay. 1,712,612; May 14.
- Trunk. G. W. Stallings. 1,712,720; May 14.
- Trunk, Aluminum wardrobe. E. McCutcheon. 1,702,052; Feb. 12.
- Trunk and bed, Combined. C. R. Spalding. 1,733,916; Oct. 29.
- Trunk and luggage carrier, Combination. R. M. Cormican. Re17,529; Dec. 17.
- Trunk, Automobile. H. Gallion. 1,718,134; June 18.
- Trunk, Automobile. A. Lowy. 1,723,652; Aug. 6.
- Trunk, Automobile. A. J. McDougall. 1,716,827; June 11.
- Trunk bolt. W. J. Samson. Dec. 77,984; Mar. 12.
- Trunk, Convertible dresser. J. W. Tharp. 1,725,550; Aug. 20.
- Trunk curtain, Combined. H. S. Hartmann. 1,710,700; Apr. 30.
- Trunk-drawer lock. J. Ritter, jr., and M. J. Wisby. 1,729,844; Oct. 1.
- Trunk, dresser, and bed, Combined. O. Kita. 1,714,878; May 28.



- Trunk, Extension. P. F. Sperry. 1,733,917; Oct. 29.  
 Trunk lock. B. H. Erwin. 1,723,020; Aug. 6.  
 Trunk lock. A. T. Long. 1,715,558; June 4.  
 Trunk or suitcase partition, Slidable. J. Ritter, jr. 1,734,049; Nov. 5.  
 Trunk platform, Automobile. E. A. Arndt. 1,713,159; May 14.  
 Trunk rack. H. L. Johnson. 1,720,477; July 9.  
 Trunk rack, Automobile. E. B. McNear. 1,718,205; June 18.  
 Trunk, Wardrobe. F. W. Meyer. 1,738,058; Dec. 3.  
 Trunk, Wardrobe. J. Rauchbach. 1,739,735; Dec. 17.  
 Trunk, Wardrobe. J. Ritter, jr. 1,710,713; Apr. 30.  
 Trunk, Wardrobe. S. Sand and A. A. Ritter. Des. 78,698; June 4.  
 Trunk, Wardrobe. A. J. Trentacoste. 1,698,859; Jan. 15.  
 Trunk, Wardrobe. G. H. Woodward. 1,725,947; Aug. 27.  
 Trunking director system, Alternate. F. Lubberger. 1,729,855; Oct. 1.  
 Trunnion-bearing guard. M. W. Goldberg. 1,703,231; Feb. 26.  
 Trunnion construction. H. E. Tautz. 1,697,669; Jan. 1.  
 Truss. H. J. Asleson. 1,710,081; Apr. 23.  
 Truss. H. G. Norwood. 1,740,952-3; Dec. 24.  
 Truss. N. B. Obbard. 1,741,331; Dec. 31.  
 Truss, Building. A. E. Shodin. 1,718,883; June 25.  
 Truss for shoes. A. E. Block. 1,739,541; Dec. 17.  
 Truss having a plurality of struts for the wings of aeroplanes. C. Dornier. 1,713,749; May 21.  
 Truss, Metal. R. B. Beisel. 1,705,708; Mar. 19.  
 Tub; See—  
 Washing-machine tub.  
 Tub and shower bath, Combined. H. F. Norton. 1,728,132; Sept. 10.  
 Tub and surgical basin, Unitary combined. O. R. Bean. 1,741,606; Dec. 31.  
 Tub for infants and babies. S. Engel. 1,717,441; June 18.  
 Tub washing machine and wringer, Multiple. G. S. Knapp. 1,714,511; May 28.  
 Tubes, Making composition. J. Olson. 1,705,780; Mar. 19.  
 Tube; See—  
 Ash-ejector tube. Lenard ray tube.  
 Audio tube. Luminescent tube.  
 Audion tube. Luminous tube.  
 Bourdon tube. Mixing tube.  
 Collapsible tube. Pin tube.  
 Cord-reinforced tube. Radiator tube.  
 Discharge tube. Röntgen tube.  
 Dispensing tube. Shielded tube.  
 Draft tube. Single-use tube.  
 Economizer tube. Stomach tube.  
 Electric discharge tube. Thermionic tube.  
 Electric tube. Tire tube.  
 Ethyl-chloride tube. Torque tube.  
 Filament tube. Triode tube.  
 Gas-discharge tube. Vacuum tube.  
 Heat-transmitting tube. X-ray tube.  
 Inner tube.  
 Tube. R. M. Witt. 1,701,433; Feb. 5.  
 Tube. R. M. Witt. 1,725,689; Aug. 20.  
 Tube and making same, Rubber-lined. I. F. Kepler. 1,708,141; Apr. 9.  
 Tube and other containers, Collapsible. M. B. Behrman. 1,710,140; Apr. 23.  
 Tube and relay, Combined vacuum. T. E. and J. E. Clark. 1,718,528; June 25.  
 Tube and sheet connection. T. W. Lowe. 1,701,268; Feb. 5.  
 Tube apparatus, Pneumatic-dispatch. P. Olson. 1,704,836; Mar. 12.  
 Tube base, Vacuum. A. I. Crawford and R. M. Sample. 1,711,673; May 7.  
 Tube boiler, Field. A. Schneider. 1,704,220; Mar. 5.  
 Tube circuit, Thermionic vacuum. C. Speaker. 1,728,014; Sept. 10.  
 Tube clamp. L. S. Bessonet. 1,709,110; Apr. 16.  
 Tube cleaner. E. B. Ford. 1,713,895; May 21.  
 Tube cleaner. R. C. McCracken. 1,712,835; May 14.  
 Tube cleaner. D. J. Rosensteel. 1,699,993; Jan. 22.  
 Tube closure and guard for permanent waving. P. E. Herrmann. 1,714,873; May 28.  
 Tube connection. C. G. Hawley. 1,717,028; June 11.  
 Tube connection, Water. R. H. Wilhelm. 1,704,493; Mar. 5.  
 Tube control for rectifiers, Vacuum-responsive glow. L. Smede. 1,716,155; June 4.  
 Tube-cutting machine. T. W. Adams. 1,698,250-1; Jan. 8.  
 Tube-cutting machine. H. De Smith and D. Church. 1,698,261; Jan. 8.  
 Tube-cutting machine. E. M. Hawkins. 1,698,230; Jan. 8.  
 Tube-cutting machine. E. M. Hawkins. 1,698,264; Jan. 8.  
 Tube-cutting machine. G. W. Mudd. 1,740,430; Dec. 17.  
 Tube coupling. K. O. Muehlberg. 1,740,664; Dec. 24.  
 Tube-deflating machine. W. H. Campbell. 1,735,673; Nov. 12.  
 Tube device. L. Sutherland and H. M. Freeman. 1,740,481; Dec. 24.  
 Tube dispenser, Collapsible. E. L. Emery. 1,713,893; May 21.  
 Tube drill. A. R. Krause and H. O. Hutchens. 1,731,010; Oct. 8.  
 Tube fitting. W. M. Cross. 1,742,175; Dec. 31.  
 Tube for amplification and oscillation generation, Vacuum. K. Rottgardt. 1,716,153; June 4.  
 Tube for oil burners, Combustion. W. M. Griffin. 1,737,232; Nov. 26.  
 Tube-forming machine. E. Conti. 1,716,424-5; June 11.  
 Tube-forming machine. H. De Smith. 1,698,260; Jan. 8.  
 Tube-forming mill. R. C. Stiefel. 1,736,099; Nov. 19.  
 Tube grid and making same. H. E. Metcalf. 1,719,774; July 2.  
 Tube jack. P. Weber. 1,696,991; Jan. 1.  
 Tube lining. J. Schwab, jr. 1,715,213; May 28.  
 Tube-making machine, Collapsible. J. Horak. 1,729,257; Sept. 24.  
 Tube manufacture. E. S. Whittier. 1,716,608; June 11.  
 Tube-packing apparatus for condensers. S. F. Blain. 1,719,420; July 2.  
 Tube-pulling device. R. Armstrong. 1,717,487; June 18.  
 Tube-repairing clamp. H. M. Parvin. 1,729,121; Sept. 24.  
 Tube reviver. W. Dubilier. 1,698,625; Jan. 8.  
 Tube-rolling machine. H. H. Stephens. 1,733,125; Dec. 3.  
 Tube shears. M. T. Lothrop. 1,715,138; May 28.  
 Tube socket, Thermionic. L. W. Gillis. 1,733,535; Oct. 29.  
 Tube-stripping apparatus. M. H. Pade. 1,707,640; Apr. 2.  
 Tube-stripping method and apparatus. C. W. Leguillon. 1,709,942; Apr. 23.  
 Tube supporter for fountain syringes. H. A. Bauman and J. W. Higgins. 1,703,859; Mar. 5.  
 Tube system. W. W. McLaren. 1,719,231; P. R. Dijksterhuis. 1,737,224; Nov. 26.  
 Tube-testing device. H. D. Stevens. 1,699,481; Jan. 15.  
 Tube top, Collapsible. R. N. Ellis. 1,735,076; Nov. 12.  
 Tubes and other tubular articles, Apparatus for the manufacture of metal. M. Peters. 1,720,345; July 9.  
 Tubes, Apparatus for constructing. J. B. Tiffany. 1,735,303; Nov. 12.  
 Tubes, Apparatus for making rubber. J. A. Fleischli. 1,713,958; May 21.  
 Tubes, Control means for modulator. W. Kummerer. 1,724,668; Aug. 13.  
 Tubes, Forming an extension upon. A. T. Hunter. 1,732,515; Oct. 22.  
 Tubes, Forming vulcanized fiber. H. J. Davis. 1,736,699; Nov. 19.  
 Tubes for rear-axle casings, Preparing. A. E. Owen and A. C. Scott. 1,736,748; Nov. 19.  
 Tubes from mandrels, Apparatus for stripping rubber. H. D. Stevens. 1,711,475; Apr. 30.  
 Tubes, Making Bourdon. H. Schlaich. 1,714,989; May 28.  
 Tubes, Making quartz. A. J. Loepsinger. 1,737,662; Dec. 3.  
 Tubes, Manufacture of inner. P. W. Lehman. 1,711,058; Apr. 30.  
 Tubes, Manufacture of rectangular. E. Challet. 1,713,742; May 21.  
 Tubes, Method and apparatus for removing trimmed waste from rubber. F. J. Benson and G. H. Lewis. 1,730,991; Oct. 8.  
 Tubes, Method and article for the manufacture of. A. Laughlin, jr. 1,732,519; Oct. 22.  
 Tubes of cement asbestos or similar substances, Apparatus for the manufacture of. D. Mattei and A. Mazza. Re17,335; June 25.  
 Tubes of india rubber or similar material and apparatus therefor, Manufacture of. D. F. Twiss and E. A. Murphy. 1,738,268; Dec. 3.  
 Tubes or the like, Making paper. S. Bergstein. 1,714,541; May 28.  
 Tubes, Preparing luminescent. P. F. J. Lebrun. 1,704,981; Mar. 12.  
 Tubes with enlarged ends, Manufacturing. H. A. Staples. 1,728,016; Sept. 10.  
 Tubing and making same, Spiral-finned. H. W. Bundy. 1,734,111; Nov. 5.  
 Tubing and rod machine. E. A. Gosnell. 1,732,466; Oct. 22.  
 Tubing, Apparatus for producing continuous. J. W. Moon. 1,700,508; Jan. 29.  
 Tubing bender. C. J. Willging. 1,712,682; May 14.  
 Tubing bleeder for oil-well pumps. W. H. Hazlett. 1,736,040; Nov. 19.  
 Tubing catcher. H. E. Grau and A. J. Colmerauer. 1,706,779; Mar. 26.  
 Tubing catcher. P. G. Leonard. 1,705,192; Mar. 12.  
 Tubing hanger. J. D. Lemex. 1,722,053; July 23.  
 Tubing machines, Strainer head for. V. Royle. 1,724,967; Aug. 20.  
 Tubing, Making finned. H. W. Bundy. 1,710,042; Apr. 23.  
 Tubing, Making finned. H. W. Bundy. 1,720,508; July 9.  
 Tubing, Making resistant plated. J. T. Pratt. 1,728,168; Sept. 10.  
 Tubing, Manufacturing metal. L. J. Bayer. 1,712,543; May 14.  
 Tubing, Metal. R. M. Hyde. 1,701,517; Feb. 12.  
 Tubing oil saver. E. V. Crowell. 1,721,806; July 23.  
 Tubing or pipe pulling spider. B. H. Morrow. 1,725,666; Aug. 20.  
 Tubing spider. E. Green. 1,733,010; Oct. 22.  
 Tubing support. H. J. Morlang and J. J. Russell. 1,703,160; Feb. 26.



- Tubular articles, Apparatus for making. J. B. Tiffany. 1,732,781; Oct. 22.
- Tubular bodies, Necking-in or reforming. J. M. Hothersall. 1,698,999; Jan. 15.
- Tubular burner. R. Thurm. 1,727,527; Sept. 10.
- Tubular elements, Connecting. J. E. Bell. 1,710,530; Apr. 23.
- Tubular fittings and the like, Making. T. E. Murray. 1,699,541; Jan. 22.
- Tubular gauge. E. H. Aldeborgh. 1,741,268; Dec. 31.
- Tubular jack. N. C. Schellenger. 1,699,678; Jan. 22.
- Tubular linings to metal pipes and the like, Method and apparatus for adhesively applying. W. L. Semon. and A. W. Sloan. 1,721,838; July 23.
- Tubular processing apparatus. H. L. Rank and F. Frease. 1,727,036; Sept. 3.
- Tubular rack. A. Law. 1,737,971; Dec. 3.
- Tubular shafts for golf clubs and the like, Apparatus for and method of making. H. G. Barrett. 1,740,144; Dec. 17.
- Tuft frame for tufted-pile fabric looms. C. Alvord. 1,713,506; May 14.
- Tufting mattresses and the like. M. L. Shifman. 1,719,027; July 2.
- Tug hook. L. M. Moore. 1,702,087; Feb. 12.
- Tumbler. J. O. Arduser. Des. 79,276; Aug. 27.
- Tumbler. I. H. Freese. Des. 77,760; Feb. 19.
- Tumbler, Glass. D. Fisher. Des. 77,759; Feb. 19.
- Tumbler, Glass. D. Fisher. Des. 79,881; Nov. 12.
- Tumbler lock. S. F. Briggs. 1,741,093; Dec. 24.
- Tumbler or article of similar nature. R. J. Beatty. Des. 77,873; Mar. 5.
- Tumbler or article of similar nature. F. J. Blackburn. Des. 79,416; Sept. 17.
- Tumbler or article of similar nature. G. S. Dunbar. Des. 78,014; Mar. 19.
- Tumbler or article of similar nature, Footed. G. S. Dunbar. Des. 78,912; July 2.
- Tumbler or similar article. B. D. Brown. Des. 79,126; Aug. 6.
- Tumbler or similar article. C. Evans. Des. 78,566; May 21.
- Tumbler or similar article. E. E. Slick. Des. 79,393; Sept. 10.
- Tumbler or similar article, Footed. J. D. Dithridge. Des. 80,021; Dec. 3.
- Tumbler switch. R. R. Smith. 1,714,526; May 28.
- Tumbler switch, Selective. J. J. Hogan. 1,728,345; Sept. 17.
- Tumbling. Process and apparatus for. S. Barber. 1,702,759; Feb. 19.
- Tuner bracket, Three-circuit-. R. H. Valentine. 1,698,177; Jan. 8.
- Tungsten and producing same, Pliable. M. N. Rich. 1,731,269; Oct. 15.
- Tungsten wires, Manufacture of drawn. R. Jacoby. 1,723,862; Aug. 6.
- Tuning coil. R. J. Starr. 1,735,020; Nov. 12.
- Tuning device. G. H. Whittingham; Re17,194; Jan. 15.
- Tuning device for radiocircuits. M. B. Wrobley. 1,697,967; Jan. 8.
- Tuning device for radios. L. G. Hallett. 1,720,648; July 9.
- Tuning device for wind musical instruments. E. J. Gulick. 1,736,880; Nov. 26.
- Tuning element for radioreceivers. M. Alden. Des. 78,555; May 21.
- Tuning fork. H. H. Haglund. 1,715,324; May 28.
- Tuning inductance device, Variable. W. Aull, jr., and H. W. Houck. 1,719,161; July 2.
- Tuning of high-frequency circuits. W. L. Carlson. 1,740,331; Dec. 17.
- Tuning peg for stringed musical instruments. A. D. Grover. 1,721,904; July 23.
- Tuning peg for violins and other string instruments. E. J. Smith. 1,732,172; Oct. 15.
- Tuning peg, String-instrument. J. F. Nelson. 1,725,098; Aug. 20.
- Tuning radioreceivers. W. P. Heath. Re17,531; Dec. 17.
- Tuning stringed instruments, Device for. F. Kordick. 1,697,508; Jan. 1.
- Tuning system. H. F. Elliott. 1,707,948; Apr. 2.
- Tunnel. J. E. Hewes. 1,697,598; Jan. 1.
- Tunnel drier. M. C. H. O. Lecoq. 1,729,675; Oct. 1.
- Tunnel lining. O. L. Eltinge. 1,702,646; Feb. 19.
- Tunneling device. H. M. Watchorn. 1,699,936; Jan. 22.
- Turban. D. Long. Des. 78,890; July 2.
- Turbine. R. Birmann. 1,728,921; Sept. 24.
- Turbine. A. Bonom. 1,704,424; Mar. 5.
- Turbine. C. W. Dake. 1,705,720; Mar. 19.
- Turbine. W. Evans. 1,708,086; Apr. 9.
- Turbine. O. E. Hausotte. 1,734,332; Nov. 5.
- Turbine. H. H. Wait. 1,718,768; June 25.
- Turbine aggregate comprising an ahead turbine and an astern turbine. W. Anderhub. 1,719,355; July 2.
- Turbine, Air. P. F. Kimball. 1,702,120; Feb. 12.
- Turbine arrangement, Combined. R. C. Allen. 1,720,709; July 16.
- Turbine blade. C. F. Jensky. 1,732,234; Oct. 22.
- Turbine blade. J. L. Ray. 1,712,119; May 7.
- Turbine blade. R. Schilling. 1,708,402; Apr. 9.
- Turbine-blade attachment. G. Back. 1,719,415; July 2.
- Turbine-blade lacing. E. Zubler. 1,723,321; Aug. 6.
- Turbine-blade shrouding. K. Baumann. 1,720,754; July 16.
- Turbine blades, Manufacturing. E. F. Miller. 1,718,061; June 18.
- Turbine blades, Production of. T. E. Murray. 1,706,703; Mar. 26.
- Turbine blading. H. F. Schmidt. 1,720,695; July 16.
- Turbine blading, particularly for steam or gas turbines. J. Zagorski. 1,710,561; Apr. 23.
- Turbine, Combustion. A. A. Bonnard and J. T. Taple. 1,721,173; July 16.
- Turbine, Combustion. M. Cooper. 1,714,549; May 28.
- Turbine, Combustion. H. Holzwarth. 1,741,939; Dec. 31.
- Turbine, Combustion. C. N. Koch. 1,723,515; Aug. 6.
- Turbine, Compound. H. H. Wait. 1,722,721; July 30.
- Turbine construction. L. H. Morrill. 1,701,539; Feb. 12.
- Turbine construction, Steam-. K. Frey. 1,714,596; May 28.
- Turbine, Elastic-fluid. J. H. Doran. 1,698,327; Jan. 8.
- Turbine, Elastic-fluid. K. M. Holt, D. F. Warner, and E. V. Pollard. 1,721,394; July 16.
- Turbine, Elastic-fluid. C. J. Lamb. 1,734,216; Nov. 5.
- Turbine, Elastic-fluid. O. Rosenlöcher. 1,740,372; Dec. 17.
- Turbine, Elastic-fluid. H. F. Schmidt. 1,737,736; Dec. 3.
- Turbine, Elastic-fluid. R. G. Standerwick. 1,740,379; Dec. 17.
- Turbine, Elastic-fluid. G. B. Warren and H. L. Wirt. 1,723,104; Aug. 6.
- Turbine, Elastic-fluid. H. L. Wirt. 1,723,110; Aug. 6.
- Turbine, External-combustion. C. M. Harris. 1,726,104; Aug. 27.
- Turbine, Fluid-driven. J. A. Choquette. 1,701,029; Feb. 5.
- Turbine, Gas. C. Lorenzen. 1,702,264; Feb. 19.
- Turbine-generator support. F. Hodgkinson. 1,716,132; June 4.
- Turbine, Hydraulic. E. J. Brikner. 1,706,375; Mar. 19.
- Turbine, Hydraulic. E. Gross. 1,728,898; Sept. 17.
- Turbine, Hydraulic. L. F. Moody. 1,703,081; Feb. 19.
- Turbine, Hydraulic. L. F. Moody. 1,709,994; Apr. 23.
- Turbine, Hydraulic. L. F. Moody. 1,716,078; June 4.
- Turbine, Hydraulic. L. F. Moody. 1,728,435; Sept. 17.
- Turbine, Hydraulic. H. E. Popp. 1,723,254; Aug. 6.
- Turbine, Hydraulic. W. J. Rheingans. 1,740,036; Dec. 17.
- Turbine, Hydraulic. P. W. Seewer. 1,704,223; Mar. 5.
- Turbine, Hydraulic. H. B. Taylor. 1,704,375; Mar. 5.
- Turbine, Impulse. L. F. Moody. 1,700,725; Jan. 29.
- Turbine, Impulse. L. F. Moody. 1,713,977; May 21.
- Turbine installation, Elastic-fluid-. T. Stein. 1,728,841; Sept. 17.
- Turbine, Marine. I. Garcia. 1,735,641; Nov. 12.
- Turbine, Radial gas or steam. A. Lysholm. 1,718,163; June 18.
- Turbine regulation. C. H. Smoot. 1,706,753; Mar. 26.
- Turbine, Steam. A. Lysholm. 1,736,612; Nov. 19.
- Turbine, Steam. J. J. Provost. 1,737,517; Nov. 26.
- Turbine, Steam. T. B. Slate. 1,741,379; Dec. 31.
- Turbine, Steam or gas. K. Röder. 1,730,746; Oct. 8.
- Turbine structure, Bladed-. E. Gottschalk. 1,717,203; June 11.
- Turbine, Submerged. A. J. Adams. 1,707,381; Apr. 2.
- Turbine, Water. S. Nagy. 1,741,949; Dec. 31.
- Turbines and the like, Emergency governing mechanism for elastic-fluid. R. J. Caughey. 1,728,042; Sept. 10.
- Turbines and the like, Gate-adjusting means for. G. A. Biggs. 1,728,719; Sept. 17.
- Turbines by means of combustion machines, Apparatus for operating liquid. F. Porsche. 1,725,881; Aug. 27.
- Turbines, Plate-steel speed ring for hydraulic. H. Syvertsen. 1,741,254; Dec. 31.
- Turbines, Runner for. L. F. Moody. 1,741,787; Dec. 31.
- Turbines, Shutting-down means for hydraulic. A. G. Smith. 1,717,071; June 11.
- Turbomixer, Multistage. K. Winkler. 1,727,152; Sept. 3.
- Turf cutter. H. E. Lennon. 1,732,941; Oct. 22.
- Turkish pipe, Pocket. M. Alland. 1,734,756; Nov. 5.
- Turnbuckle. W. H. Hardick. 1,711,598; May 7.
- Turning signal. L. L. Furan. 1,731,619; Oct. 15.
- Turnstile. D. Tulghin. 1,726,779; Sept. 3.
- Turntable. A. L. Cresci. 1,699,463; Jan. 15.
- Turntable. E. A. Dillon. 1,718,811; June 25.
- Turntable. P. C. A. van der Meer. 1,732,113; Oct. 15.
- Turntable. E. R. Woodruff and V. K. Hoffner. 1,703,978; Mar. 5.
- Turntable, Automatic. W. C. Kincaid. 1,724,800; Aug. 13.
- Turntable-driving apparatus. R. W. Young. 1,701,938; Feb. 12.
- Turntable for railways, Movable. G. A. Schoeller. 1,702,549; Feb. 19.
- Turntable molding machine. J. T. Ramsden. 1,714,737; June 11.
- Turntable stop, Automatic. J. Kenyon. 1,735,251; Nov. 12.
- Turpentine, pine oil, and rosin from resinous woods, Extracting. R. C. Palmer. 1,740,115; Dec. 17.
- Turret-box machine. W. A. Saatman. 1,737,615; Dec. 3.
- Turret machine for metal working. C. A. Cornell. 1,742,135; Dec. 31.
- Turret, Steam. C. H. Bilty and O. C. Peterson. 1,707,793; Apr. 2.
- Tuyère. G. G. Crawford. 1,727,337; Sept. 10.
- Tuyère block. O. A. Johnson. 1,710,260; Apr. 23.
- Tuyère for slag-blowing furnaces. A. Laist. 1,729,075; Sept. 24.
- Tweezers. R. M. Anderson. 1,701,995; Feb. 12.
- Tweezers. F. J. Dowling. 1,714,593; May 28.



- Tweezers. S. Segal. 1,714,822; May 28.  
 Twine cutter. A. J. Whelan. 1,720,502; July 9.  
 Twine cutter. R. L. Winter. 1,710,283; Apr. 23.  
 Twine package. H. F. King. 1,707,619; Apr. 2.  
 Twine seal. H. Geisler. 1,722,908; July 30.  
 Twist-controlling device for twisting and winding machines. C. W. Hubbard. 1,724,200; Aug. 13.  
 Twister frame. S. Borovoy and W. L. Perry. 1,713,326; May 14.  
 Twister ring and traveler. J. H. Avery. 1,732,785; Oct. 22.  
 Twisting device. W. J. Leach. 1,705,369; Mar. 12.  
 Twisting device. W. J. Leach. 1,705,411; Mar. 12.  
 Twisting machine. W. W. Collins. 1,728,663; Sept. 17.  
 Twisting machines, Traveler for. A. Morin. 1,735,469; Nov. 12.  
 Twisting mechanism for warp-twisting-in machines. J. H. Becker. 1,706,390; Mar. 26.  
 Twisting wire in concrete-form work, Device for. R. A. A. Drews. 1,736,781; Nov. 26.  
 Two-finger ring. G. Cramer. 1,724,129; Aug. 13.  
 2,4'-dichloro-ortho-benzoyl-benzoic acid and making the same. I. Gubelmann, H. J. Weiland, and O. Stallmann. 1,711,144; Apr. 30.  
 2,4'-dihalogen-5'-methyl-ortho-benzoyl-benzoic acid and making the same. R. Adams. 1,711,164; Apr. 30.  
 2,4-dimethyl-6-ethoxyquinoline, Making. H. T. Clarke and E. R. Taylor. 1,701,144; Feb. 5.  
 2-hydroxy-3-carboxy naphthalene and its metallic salts, Manufacture and production of. E. Schwenk. 1,700,546; Jan. 29.  
 Tying device. J. L. Morgan. 1,735,691; Nov. 12.  
 Tying device, Hand-operated. G. A. Strawser. 1,711,911; May 7.  
 Tympan gauge. C. H. Allan. 1,697,746; Jan. 1.  
 Tympan gauge, Plural-tongue. C. H. Allan. 1,701,135; Feb. 5.  
 Type bar and producing same. Mechanically-cast. J. G. Holbourns and W. M. Bower. 1,705,567; Mar. 19.  
 Type bars, Making. W. Schäffer. 1,700,599; Jan. 29.  
 Type-bending machine. L. Frank. 1,714,083; May 21.  
 Type casting and proof reading, Process of and apparatus for. C. A. Macomic. 1,725,153; Aug. 20.  
 Type-casting machines, Feeder for. W. G. Wilkes. 1,735,069; Nov. 12.  
 Type-casting mechanism. C. A. Macomic. 1,736,271; Nov. 19.  
 Type-clamping attachment for chases. A. B. Weiler. 1,732,074; Oct. 15.  
 Type lifter. C. A. Hardy. 1,723,161; Aug. 6.  
 Type relay, Induction-. W. H. Petersén. 1,711,285; Apr. 30.  
 Type sector. W. W. Lasker and J. Mueller. 1,705,983; Mar. 19.  
 Typesetting frame, Adjustable. F. Killgus. 1,719,936; July 9.  
 Type-swaging machine. C. H. Wolfe. 1,715,401; June 4.  
 Typewriter. J. H. Barr. 1,697,899; Jan. 8.  
 Typewriter. A. L. Meyer. 1,697,992; Jan. 8.  
 Typewriter. P. von Boeckmann. 1,717,819; June 18.  
 Typewriter. C. D. Youngberg. 1,724,163; Aug. 13.  
 Typewriter and billing-machine ribbon. A. L. Vosburg. 1,739,191; Dec. 10.  
 Typewriter and computing machine, Combined. W. E. Torfs. 1,709,963; Apr. 23.  
 Typewriter and other machines, Key action for. O. U. Desha. 1,697,416; Jan. 1.  
 Typewriter and the like. H. M. Armistead. 1,712,724; May 14.  
 Typewriter-carriage-locking means. M. Garbell. 1,699,061; Jan. 15.  
 Typewriter-feeding device. E. Z. Lewis. 1,699,794; Jan. 22.  
 Typewriter-machine casing. G. W. Campbell. 1,712,648; May 14.  
 Typewriter, Manifolding. G. M. Sacerdote. 1,707,494; Apr. 2.  
 Typewriter, Manifolding. N. Sanders. 1,737,337; Nov. 26.  
 Typewriter, Manual and power operated. O. A. Hokanson. 1,734,728; Nov. 5.  
 Typewriter-operating means. W. C. Brumder. 1,711,137; Apr. 30.  
 Typewriter paper finger. M. Garbell. 1,727,402; Sept. 10.  
 Typewriter, Platenless. O. J. Huie. 1,723,240; Aug. 6.  
 Typewriter, Pocket. J. B. Underwood. 1,725,231; Aug. 20.  
 Typewriter word counter. J. Lindburg. 1,710,777; Apr. 30.  
 Typewriters, adding machines, bookkeeping machines, and the like, Supporting structure for. E. G. Bennett. 1,700,784; Feb. 5.  
 Typewriters and like machines, Paper-guiding arrangement for. P. Käppler. 1,737,162; Nov. 26.  
 Typewriters, Banking stop for. F. P. Gorin. 1,734,518; Nov. 5.  
 Typewriters, Copyholder for. E. McGill. 1,738,718; Dec. 10.  
 Typewriters, Envelope feeder for. R. V. Labarre. 1,718,467; June 25.  
 Typewriters, Envelope-feeding apparatus for. H. L. Dyer. 1,707,080; Mar. 26.  
 Typewriters, Escapement mechanism for. B. Z. Goldenberg. 1,738,950; Dec. 10.  
 Typewriters, Fractional-line-spacing mechanism for. G. M. Hardingham. 1,718,043; June 18.  
 Typewriters, Indicating attachment for. J. Schleinzer. 1,728,447; Sept. 17.  
 Typewriters, Letter-spacing mechanism for. C. D. Youngberg and G. J. Rundblad. 1,724,060; Aug. 13.  
 Typewriters, Line-spacing mechanism for. F. B. Powers. 1,724,615; Aug. 13.  
 Typewriters, Manifolding attachment for. F. Doverspike. 1,724,698; Aug. 13.  
 Typewriters, Margin regulator for. R. W. Robinson. 1,712,904; May 14.  
 Typewriters, Margin stop for. M. Garbell. 1,711,313; Apr. 30.  
 Typewriters, Paper feed for. O. Schlichter. 1,738,024; Dec. 3.  
 Typewriting and card-perforating machine, Combined. J. A. B. Smith. 1,698,829; Jan. 15.  
 Typewriting and computing machine, Combined. F. A. Hart. 1,737,586; Dec. 3.  
 Typewriting and computing machine, Combined. A. G. Kupetz. 1,715,609; June 4.  
 Typewriting and computing machine, Combined. A. G. F. Kurowski. 1,710,775; Apr. 30.  
 Typewriting and computing machine, Combined. J. A. B. Smith. 1,705,073; Mar. 12.  
 Typewriting and other key-operating machines, Key action for. O. U. Desha. 1,697,415; Jan. 1.  
 Typewriting and other key-operating machines, Key action for. O. U. Desha. 1,697,417; Jan. 1.  
 Typewriting and other key-operating machines, Key action for. O. U. Desha. 1,722,954; July 30.  
 Typewriting and other key-operating machines, Key action for. O. U. Desha. 1,722,956; July 30.  
 Typewriting and other machines, Key action for. O. U. Desha. 1,722,955; July 30.  
 Typewriting machine. F. Abel. 1,732,738; Oct. 22.  
 Typewriting machine. H. A. Avery. 1,723,672; Aug. 6.  
 Typewriting machine. H. A. Avery, O. Petermann, and E. L. Harmon. 1,700,826-9; Feb. 5.  
 Typewriting machine. H. A. Avery, O. Petermann, and E. L. Harmon. 1,741,673; Dec. 31.  
 Typewriting machine. E. E. Barney. 1,698,119; Jan. 8.  
 Typewriting machine. E. E. Barney. 1,712,193; May 7.  
 Typewriting machine. E. E. Barney. 1,730,445; Oct. 8.  
 Typewriting machine. H. O. Blaisdell. 1,698,426; Jan. 8.  
 Typewriting machine. G. W. Campbell. 1,713,594; May 21.  
 Typewriting machine. H. W. Carroll, Jr. 1,731,762; Oct. 15.  
 Typewriting machine. C. B. Corcoran and A. G. F. Kurowski. 1,704,699; Mar. 12.  
 Typewriting machine. G. O. Degener. 1,732,399; Oct. 22.  
 Typewriting machine. B. M. Des Jardins. 1,698,880; Jan. 15.  
 Typewriting machine. W. A. Dobson. 1,696,906; Jan. 1.  
 Typewriting machine. W. A. Dobson. 1,713,075; May 14.  
 Typewriting machine. W. A. Dobson. 1,715,906; June 4.  
 Typewriting machine. J. A. Dunn. 1,717,765; June 18.  
 Typewriting machine. A. B. Ely. 1,714,500; May 28.  
 Typewriting machine. A. B. Ely. 1,741,689-70; Dec. 31.  
 Typewriting machine. A. B. Ely and E. L. Harmon. 1,737,113; Nov. 26.  
 Typewriting machine. G. G. Goings. 1,730,456-7; Oct. 8.  
 Typewriting machine. G. G. Goings. 1,734,480; Nov. 5.  
 Typewriting machine. G. F. Handley. 1,722,142; July 23.  
 Typewriting machine. F. A. Hart. 1,702,774; Feb. 19.  
 Typewriting machine. F. A. Hart. 1,710,685; Apr. 30.  
 Typewriting machine. F. A. Hart. 1,724,478; Aug. 13.  
 Typewriting machine. C. W. Howell. 1,700,891; Feb. 5.  
 Typewriting machine. A. E. Imbus. 1,724,936; Aug. 20.  
 Typewriting machine. G. Keining. 1,711,893; May 7.  
 Typewriting machine. W. P. Kidder. 1,713,607; May 21.  
 Typewriting machine. A. G. Kupetz. 1,713,086; May 14.  
 Typewriting machine. A. G. Kupetz. 1,733,501; Oct. 29.  
 Typewriting machine. W. H. Kupper. 1,701,376; Feb. 5.  
 Typewriting machine. A. G. F. Kurowski. 1,698,817; Jan. 15.  
 Typewriting machine. A. G. F. Kurowski. 1,699,616; Jan. 22.  
 Typewriting machine. A. G. F. Kurowski. 1,700,769; Feb. 5.  
 Typewriting machine. A. G. F. Kurowski. 1,700,900; Feb. 5.  
 Typewriting machine. A. G. F. Kurowski. 1,704,707; Mar. 12.  
 Typewriting machine. A. G. F. Kurowski. 1,705,927; Mar. 19.  
 Typewriting machine. A. G. F. Kurowski. 1,709,355; Apr. 16.  
 Typewriting machine. A. G. F. Kurowski. 1,712,628; May 14.  
 Typewriting machine. A. G. F. Kurowski. 1,714,604; May 28.  
 Typewriting machine. A. G. F. Kurowski. 1,718,694; June 25.  
 Typewriting machine. A. G. F. Kurowski. 1,730,040; Oct. 1.  
 Typewriting machine. A. G. F. Kurowski. 1,735,870; Nov. 19.  
 Typewriting machine. A. G. F. Kurowski and C. E. Norlin. 1,737,723; Dec. 3.  
 Typewriting machine. J. Lindburg. 1,700,322; Jan. 29.  
 Typewriting machine. J. Lindburg. 1,735,121; Nov. 12.  
 Typewriting machine. O. J. Meinecke. 1,727,377; Sept. 10.  
 Typewriting machine. M. E. Melton. 1,716,454; June 11.



- Typewriting machine. W. O. Michelsen. 1,736,125; Nov. 19.
- Typewriting machine. W. O. Michelsen. 1,741,328; Dec. 31.
- Typewriting machine. E. T. Mitchell. 1,697,433; Jan. 1.
- Typewriting machine. L. Muggli. 1,739,729; Dec. 17.
- Typewriting machine. L. C. Myers. 1,722,439; July 30.
- Typewriting machine. L. C. Myers. 1,722,937; July 30.
- Typewriting machine. L. C. Myers. 1,737,324; Nov. 26.
- Typewriting machine. F. Nepper. 1,712,514; May 14.
- Typewriting machine. A. G. Reimers. 1,727,357; Sept. 10.
- Typewriting machine. G. W. Renz. 1,707,370; Apr. 2.
- Typewriting machine. G. F. Rose. 1,715,428; June 4.
- Typewriting machine. A. F. Schauss. 1,705,421; Mar. 12.
- Typewriting machine. W. A. Schmidt. 1,696,976; Jan. 1.
- Typewriting machine. J. C. M. Schneider. 1,725,542; Aug. 20.
- Typewriting machine. A. W. Smith. 1,702,420; Feb. 19.
- Typewriting machine. J. A. B. Smith. 1,696,926; Jan. 1.
- Typewriting machine. J. A. B. Smith. 1,698,244; Jan. 8.
- Typewriting machine. J. A. B. Smith. 1,705,945-6; Mar. 19.
- Typewriting machine. J. A. B. Smith. 1,712,636; May 14.
- Typewriting machine. J. A. B. Smith. 1,713,563; May 21.
- Typewriting machine. J. A. B. Smith. 1,723,663; Aug. 6.
- Typewriting machine. J. A. B. Smith. 1,730,904; Oct. 8.
- Typewriting machine. J. A. B. Smith. 1,733,472; Oct. 29.
- Typewriting machine. J. A. B. Smith. 1,733,674; Dec. 10.
- Typewriting machine. J. A. B. Smith. 1,739,739; Dec. 17.
- Typewriting machine. J. A. B. Smith. 1,741,545; Dec. 31.
- Typewriting machine. J. A. B. Smith. 1,741,664; Dec. 31.
- Typewriting machine. B. C. Stickney. Re17,478; Nov. 5.
- Typewriting machine. B. C. Stickney. Re17,483; Nov. 5.
- Typewriting machine. B. C. Stickney. 1,713,010; May 14.
- Typewriting machine. B. C. Stickney. 1,717,527; June 18.
- Typewriting machine. B. C. Stickney. 1,731,444; Oct. 15.
- Typewriting machine. B. C. Stickney. 1,737,439; Nov. 26.
- Typewriting machine. B. C. Stickney. 1,737,982; Dec. 3.
- Typewriting machine. J. Toggenburger. 1,731,689; Oct. 15.
- Typewriting machine. R. W. Uhlig. 1,738,677; Dec. 10.
- Typewriting machine. R. von Reppert. 1,710,751; Apr. 30.
- Typewriting machine. J. Waldheim. 1,699,642; Jan. 22.
- Typewriting machine. J. Waldheim. 1,732,920; Oct. 22.
- Typewriting machine. J. Waldheim. 1,740,051; Dec. 17.
- Typewriting machine. S. L. Walsoe. 1,714,063; May 21.
- Typewriting machine. H. L. Wood. 1,707,502; Apr. 2.
- Typewriting machine casing. A. G. F. Kurowski. 1,700,941; Feb. 5.
- Typewriting machine. Phonetic. G. E. Etherton. 1,731,614; Oct. 15.
- Typewriting machines, Aligner and tear-off device for. W. J. Wiswall. 1,721,539; July 23.
- Typewriting mechanism and desk structure, Dual. G. Santilli. 1,727,252; Sept. 3.
- Typing system. A. Thies. 1,733,104; Oct. 22.
- Typographic casting machine. M. C. Indahl. 1,720,331; July 9.
- Typographic element, Hollow. M. C. Indahl. 1,702,903; Feb. 19.
- Typographical assembler. G. E. Marlatt. 1,701,579; Feb. 12.
- Typographical composing machine. J. R. Rogers. 1,717,411; June 18.
- Typographical composing machines, Manufacture of justifying spacers or space bands for use in. G. Best. 1,701,944; Feb. 12.
- Typographical distributing machine. H. A. Burt. 1,705,556; Mar. 19.
- Typographical distributing machine. D. S. Kennedy. 1,698,636; Jan. 8.
- Typographical line-casting machine. J. G. W. Field. 1,711,933; May 7.
- Typographical machine. D. S. Kennedy. 1,705,977; Mar. 19.
- Typographical machine. J. R. Rogers. 1,698,658; Jan. 8.
- Typographical machine. O. Wolters and K. Höper. 1,714,481; May 21.
- Typographical machines, Attachment for. C. H. Allan. 1,697,745; Jan. 1.
- Typographical machines, Keyboard mechanism for. S. E. Sperry. 1,734,922; Nov. 5.
- Typographical machines, Metal pot for. L. W. Willis. 1,732,075; Oct. 15.
- Typographical machines, Pump-action control for. O. G. Woodhouse. 1,722,876; July 30.
- Typographical machines, Releasing means for. R. Emery. 1,722,370; July 30.
- Typographical slug-casting machine. G. E. Marlatt. 1,701,578; Feb. 12.
- Typo-photo film process. S. E. Kellogg. 1,713,660; May 21.
- Ultrafilter membranes, Manufacture of. J. Duclaux. 1,720,670; July 16.
- Ultra-violet-ray machine. H. B. Woerner. 1,705,798; Mar. 19.
- Umbilical clamp. A. F. Dilworth. 1,710,769; Apr. 30.
- Umbrella. J. J. Clark. 1,697,520; Jan. 1.
- Umbrella. L. B. Foster. 1,715,322; May 28.
- Umbrella. N. A. Hanson. 1,728,489; Sept. 17.
- Umbrella. S. Khalil. 1,723,044; Aug. 6.
- Umbrella. H. R. Lillich and C. Smith. 1,737,464; Nov. 26.
- Umbrella. W. S. Timblin. 1,732,867; Oct. 22.
- Umbrella and cap, Combination. M. Greenberg. 1,718,417; June 25.
- Umbrella and chair, Combination. J. Venge. 1,736,893; Nov. 26.
- Umbrella and hand bag, Convertible. C. O'Donnell. 1,699,015; Jan. 15.
- Umbrella and hat rack. M. Bassion. 1,700,579; Jan. 29.
- Umbrella and parasol construction. F. E. Sincere. 1,713,983; May 21.
- Umbrella and the like article. I. Goldberg. 1,707,473; Apr. 2.
- Umbrella and walking stick, Illuminated. J. A. Hayhoe. 1,723,780; Aug. 6.
- Umbrella attachment. I. Zussman. 1,706,341; Mar. 19.
- Umbrella, Collapsible. F. Burris. 1,708,214; Apr. 9.
- Umbrella, Collapsible. T. L. Lingg. 1,703,741; Feb. 26.
- Umbrella, Collapsible. A. A. Theodoropoulos. 1,738,267; Dec. 3.
- Umbrella construction. C. G. Snook. 1,736,177; Nov. 19.
- Umbrella device. A. Kortenbach, jr. 1,735,285; Nov. 12.
- Umbrella, Double-folding. K. Ito. 1,728,062; Sept. 10.
- Umbrella, Folding. A. Hartman. 1,727,104; Sept. 3.
- Umbrella frame, Collapsible. F. Gundel. 1,706,922; Mar. 26.
- Umbrella-holding device. I. E. Berg. 1,712,022; May 7.
- Umbrella opening and closing attachment. T. P. Garankin. 1,709,208; Apr. 16.
- Umbrella or the like. L. Finver. 1,701,067; Feb. 5.
- Umbrella, parasol, sunshade, and the like. A. E. Bagshaw. 1,711,872; May 7.
- Umbrella runner. S. Giszczynski. 1,712,430; May 7.
- Umbrella tag. T. E. Vineski. 1,717,422; June 18.
- Umbrella, Telescopic. H. Haupt. 1,707,910; Apr. 2.
- Unclutching device for internal-combustion engines, Servo-motor-controlled. H. L. Marfaing. 1,729,173; Sept. 24.
- Underclearer for the rollers of yarn preparing, spinning, and like frames. H. H. Mallott. 1,727,512; Sept. 10.
- Undercutter. C. A. Beck. 1,716,946; June 11.
- Undercutter. W. M. Carroll. 1,727,153; Sept. 3.
- Underfeed stoker. R. S. Riley. 1,708,739; Apr. 9.
- Undergarment. M. O. Ekey. 1,697,419; Jan. 1.
- Undergarment. A. T. Flavell and E. Holland. 1,704,887; Mar. 12.
- Undergarment. E. J. Goldenblum. 1,705,399; Mar. 12.
- Undergarment. A. C. Longfellow. 1,711,172; Apr. 30.
- Undergarment. H. D. Rose. 1,702,618; Feb. 19.
- Undergarment. A. Rothstein. 1,699,923; Jan. 22.
- Undergarment, Combination. B. Avron. 1,705,171; Mar. 12.
- Undergarment, Lady's. F. Chatfield. 1,737,408; Nov. 26.
- Undergarment, Lady's. H. C. Christensen. 1,706,210; Mar. 19.
- Undergarment, Lady's. H. D. Rose. 1,710,460; Apr. 23.
- Undergarment, Man's. N. F. Dodson. 1,712,072; May 7.
- Undergarment, Woman's. S. Salkind. 1,713,922; May 21.
- Undergarment, Woman's shoulder-supported. H. L. Redmond. 1,712,776; May 14.
- Underground conductive bodies, Locating. E. H. Guilford. 1,718,352; June 25.
- Underpinning. J. B. Goldsborough. 1,698,543; Jan. 8.
- Underpinning and making the same. S. M. Gooder. 1,705,612; Mar. 19.
- Underreamer. E. A. Buchanan. 1,739,206; Dec. 10.
- Underreamer. R. Cramer. 1,737,960; Dec. 3.
- Underreamer. J. W. Doody. 1,733,452; Oct. 29.
- Underreamer. A. B. Edwards. 1,720,950; July 16.
- Underreamer. W. Hargreaves. 1,717,559; June 18.
- Underreamer. W. B. Nichols. 1,740,829; Dec. 24.
- Underreamer. G. H. Terrell. 1,731,732; Oct. 15.
- Underreamer for wells. W. P. Rudkin. 1,710,998; Apr. 30.
- Underreamer, Hydraulic rotary. W. B. Wigle. 1,738,860; Dec. 10.
- Underreamer, Rotary. G. F. Le Bus. 1,710,580; Apr. 23.
- Underwater construction. S. M. Savage. 1,716,189-90; June 4.
- Unidirectional driving device. G. Constantinesco. 1,738,692; Dec. 10.
- Unhairing machine. F. W. Horstman. 1,715,758; June 4.
- Union. R. E. Warren and F. Melott. 1,711,761; May 7.
- Union-alls, Convenient. C. M. Petty. 1,737,803; Dec. 3.
- Union coupling. W. R. Little. 1,707,087; Mar. 26.
- Union suit for men. H. C. Gingrich. 1,707,607; Apr. 2.
- Union suit for men. M. D. Neilson. 1,711,362; Apr. 30.
- Unit for holding the leaves in a visible record system. A. G. Lotter. 1,727,348; Sept. 10.
- Unit wall, Composite. P. Berman. 1,719,749; July 2.
- Unitary double stopper. H. D. Geyer. 1,730,202; Oct. 1.
- Uniting metalically the seams of aluminum-plated sheet-iron, and vessel manufactured after this method. F. Jordan. 1,699,434; Jan. 15.
- Universal coupling. G. H. Hufferd. 1,705,731; Mar. 19.
- Universal coupling. A. S. Meseroll. 1,707,530; Apr. 2.
- Universal hook. J. L. Krieg. 1,713,835; May 21.
- Universal joint. J. N. Curlee. 1,741,099; Dec. 24.
- Universal joint. H. M. Funnell. 1,737,535; Nov. 26.
- Universal joint. F. W. Peters. 1,697,473; Jan. 1.
- Universal joint. F. W. Peters. 1,702,363; Feb. 19.
- Universal joint. C. W. Spicer. 1,721,322; July 16.
- Universal joint. J. Triulzi. 1,711,187; Apr. 30.



- Universal joint. H. A. Weidenbach. 1,719,411; July 2.  
 Universal joint. C. W. Weiss. 1,728,949; Sept. 24.  
 Universal joint. J. B. Wintercorn. 1,700,991; Feb. 5.  
 Universal press. D. Meredieu. 1,730,284; Oct. 1.  
 Unloader for elevators, Automatic. S. Olson. 1,736,011; Nov. 19.  
 Unloader for pump drives. H. E. Bucklen and H. O. Putt. 1,738,281; Dec. 3.  
 Unloader or plow for centrifugals. C. Schaum. 1,701,731; Feb. 12.  
 Unloading apparatus for cargo carriers, Self-. L. D. Smith. 1,741,167; Dec. 31.  
 Unloading boom for ships and support therefor. J. R. Sensibar. 1,720,450; July 9.  
 Unloading device, Compressor. C. C. Farmer. 1,735,999; Nov. 19.  
 Unloading device for centrifugal extractors. F. M. Watkins. 1,702,713; Feb. 19.  
 Unloading granular materials, Process and apparatus for. L. C. Hill. 1,728,968; Sept. 24.  
 Unloading jack. E. Wirz. 1,717,485; June 18.  
 Unloading machine. S. Nagao. 1,698,854; Jan. 15.  
 Unloading mechanism for ships. J. R. Sensibar. 1,737,343; Nov. 26.  
 Unloading of railroad cars and other vehicles, Apparatus for the. C. Postweiler. 1,716,240; June 4.  
 Unloading sewage or sludge. K. Imhoff. 1,703,041; Feb. 19.  
 Untwisting and carding fibrous material, Machine for. J. Juliusburger. 1,722,095; July 23.  
 Unwinding coiled wire, band iron, and the like, Apparatus for. C. Matthaei. 1,729,955; Oct. 1.  
 Unwinding, feeding, and winding mechanism. C. M. Gottschau. 1,731,490; Oct. 15.  
 Unwinding or unrolling machine, Fabric or cloth. W. W. Jeffress. 1,702,971; Feb. 19.  
 Unwinding strand material, Method of and apparatus for. T. M. Yancey. 1,734,703-5; Nov. 5.  
 Upedging means for fruit sizers. E. M. Wayland. 1,706,368; Mar. 19.  
 Upholstery-button assembly. C. Morgana, G. A. Miller, and N. M. Willet. 1,702,127; Feb. 12.  
 Upholstery edge. H. Fox. 1,741,413; Dec. 31.  
 Upholstery installation and fastener elements for use therewith. R. F. Walters. 1,740,431; Dec. 17.  
 Upholstery unit for vehicle bodies and the like. D. H. Van Hove. 1,727,529; Sept. 10.  
 Upper and constructing same. E. S. Bott and A. S. Funk. 1,739,821; Dec. 17.  
 Upper-shaping machine. E. A. Holmgren. 1,726,833; Sept. 3.  
 Upsetting draw bars, Machine for. B. L. Rowe. 1,721,042; July 16.  
 Uranium and uranium-zinc alloys, Producing. J. W. Marden. 1,728,940; Sept. 24.  
 Uranium and uranium-zinc alloys, Producing. J. W. Marden. 1,728,942; Sept. 24.  
 Urea and formaldehyde and making same, Condensation products of. A. Gams and G. Widmer. 1,718,901; June 25.  
 Urea and formaldehyde condensation products. O. A. Cherry. 1,737,918; Dec. 3.  
 Urea, Production of. H. C. Hetherington and H. J. Krase. 1,730,208; Oct. 1.  
 Urethro-cystoscopic instrument. J. E. Sederholm and F. E. B. Foley. 1,741,740; Dec. 31.  
 Urinal. A. Hansen. 1,740,860; Dec. 24.  
 Urinal, Outdoor. H. E. Hodgson. 1,702,542; Feb. 19.  
 Urinometer jar. M. Shaweaker. 1,710,951; Apr. 30.  
 Urn, Coffee. H. D. Kelly. 1,710,218; Apr. 23.  
 Urn, Coffee. J. N. Shaw. 1,719,627; July 2.  
 Urns, Fitting for coffee. A. Kleinlercher. 1,722,804; July 30.  
 Utensil, Cooking. F. V. Detwiler. 1,732,554; Oct. 22.  
 Utensil, Cooking. F. V. Detwiler. 1,733,450; Oct. 29.  
 Utensil, Cooking. J. Faruggia. 1,739,546; Dec. 17.  
 Utensil, Cooking. J. Faulk. 1,730,034; Oct. 1.  
 Utensil, Cooking. L. W. Hostettler. 1,717,450; June 18.  
 Utensil, Cooking. A. E. Johnson. 1,728,064; Sept. 10.  
 Utensil, Cooking. A. J. McClellan. 1,728,211; Sept. 17.  
 Utensil, Cooking. K. E. Porter. 1,728,007; Sept. 10.  
 Utensil for cooking ranges. M. Mack. 1,716,179; June 4.  
 Utensil handle, Detachable cooking-. E. B. Drumm. 1,732,003; Oct. 15.  
 Utensil, Kitchen. W. and W. F. Hodges. 1,740,802; Dec. 17.  
 Utensil, Kitchen. H. and L. Hoffman. 1,708,921; Apr. 9.  
 Utensil, Kitchen. V. L. Hughes. 1,698,814; Jan. 15.  
 Utensil, Kitchen. S. Snowdy. 1,737,898; Dec. 3.  
 Utensil lifter, Kitchen-. J. G. Funk. 1,725,512; Aug. 20.  
 Utensil, Oven. H. D. Benedict. 1,739,347; Dec. 10.  
 Utensil, Pancake-turner-type kitchen. R. M. Haertter. 1,723,507; Aug. 6.  
 Utensil rack. R. J. Morris and C. E. Cowley. 1,716,863; June 11.  
 Utensil, Strainer. C. L. Brown. 1,734,995; Nov. 12.  
 Utensils, Forming. R. S. Blake and A. L. Fabens. 1,728,033; Sept. 10.  
 Utility box. F. Weindel, jr. 1,713,495; May 14.  
 Utility rack. S. M. Schulze. 1,707,081; Mar. 19.  
 Utility shovel. R. A. Wornstaff. 1,741,004; Dec. 24.  
 Utility stand, Combination. J. Skultety. 1,724,320; Aug. 13.  
 Utility table, Bedside. M. Schmidt and E. Neubacher. 1,715,076; May 28.  
 Utilization of hydraulic energy. F. Lawaczek. 1,730,578; Oct. 8.  
 Utilizing centrifugal force. A. L. Brownrigg. 1,730,117; Oct. 1.  
 Utilizing the heat radiated from kilns, Device for. F. Luther. 1,698,313; Jan. 8.  
 Utilizing waste waters from beet-root-sugar molasses. K. Ikeda. 1,721,820; July 23.  
 V block and angle plate. W. H. Wildbore. 1,705,629; Mar. 19.  
 Vacuum apparatus for stripping carding engines. A. Kean and J. O. Potter. 1,716,729; June 11.  
 Vacuum apparatus, High-. O. Seitz. 1,716,507; June 11.  
 Vacuum bottles, Apparatus for use in silvering. M. P. Wetmore. 1,735,343; Nov. 12.  
 Vacuum brake. C. A. Campbell. 1,698,359; Jan. 8.  
 Vacuum brake. F. K. Gruss. 1,714,868; May 28.  
 Vacuum cap, Self-sealing rotatable. C. Hammer. 1,716,851; June 11.  
 Vacuum cleaner. C. Aalborg. 1,702,424; Feb. 19.  
 Vacuum cleaner. J. E. Ardell. 1,707,382; Apr. 2.  
 Vacuum cleaner. G. W. Allen. 1,703,863; Mar. 5.  
 Vacuum cleaner. R. Bass. 1,711,132; Apr. 30.  
 Vacuum cleaner. J. H. Codrick. 1,714,497; May 28.  
 Vacuum cleaner. W. L. Lindgren. 1,712,922; May 14.  
 Vacuum cleaner. S. McClatchie. 1,721,459; July 16.  
 Vacuum cleaner. H. J. Smidley. 1,708,194; Apr. 9.  
 Vacuum cleaner. A. N. Spanel. 1,726,592; Sept. 3.  
 Vacuum cleaner. J. Tuteur. 1,728,021; Sept. 10.  
 Vacuum cleaner. F. Tyson. 1,740,525; Dec. 24.  
 Vacuum cleaner. W. J. Wise and T. O. Adams. 1,727,849; Sept. 10.  
 Vacuum cleaner attachment. A. A. Serva. 1,708,282; Apr. 9.  
 Vacuum-cleaner attachment. L. D. Wilson. 1,714,287; May 21.  
 Vacuum cleaner for automobiles. W. L. Grathwol. 1,738,065-6; Dec. 3.  
 Vacuum cleaner for rugs. H. P. Johnston. 1,715,199; May 28.  
 Vacuum-cleaner switch, Automobile. W. C. Schvier and N. V. Schaaf. 1,729,364; Sept. 24.  
 Vacuum cleaners, Accessory for. L. P. Keller. 1,726,741; Sept. 3.  
 Vacuum cleaners, Brush attachment for. P. J. Fitzgerald. 1,713,274; May 14.  
 Vacuum cleaners, Conductor-retrieving device for. P. S. Hyde and D. P. Reynolds. 1,714,225; May 21.  
 Vacuum cleaners, Dust-bag closure for. I. J. Owen. 1,713,849; May 14.  
 Vacuum cleaners, Waste receiver for. G. B. Owen. 1,715,861; June 4.  
 Vacuum connection for molds. A. Kadow. 1,717,607; June 18.  
 Vacuum cup, Violet-ray. E. H. Odell. 1,718,576; June 25.  
 Vacuum device and cleaning up residual gases therein. D. MacRae. 1,699,112; Jan. 15.  
 Vacuum devices, Getter for. L. McCulloch. 1,729,888; Oct. 1.  
 Vacuum discharge device and using the same. A. Mut-scheller. 1,738,960; Dec. 10.  
 Vacuum discharge device, Electrical. A. P. H.-G. Nickel and J. J. Spanner. 1,740,700; Dec. 24.  
 Vacuum electric-tube apparatus. E. Y. Robinson. 1,720,442; July 9.  
 Vacuum electric-tube device. E. Y. Robinson. 1,720,443; July 9.  
 Vacuum evaporator. G. A. Zeitler. 1,721,760; July 23.  
 Vacuum feed device. J. A. H. Barkei. 1,708,861; Apr. 9.  
 Vacuum feed device. O. L. Loughhead. 1,702,265; Feb. 19.  
 Vacuum feed system. J. A. H. Barkei. 1,719,817; July 2.  
 Vacuum filling machine. T. E. Pennock. 1,737,677; Dec. 3.  
 Vacuum fuel-feed apparatus. B. H. Savage. 1,702,273; Feb. 19.  
 Vacuum fuel-feed device. J. A. Dienner. 1,716,371; June 11.  
 Vacuum fuel-feed system. J. C. Coulombe. 1,713,029; May 14.  
 Vacuum head. J. W. Pelphrey. 1,710,590; Apr. 23.  
 Vacuum jar, Outside-seal. G. Staunton. 1,700,957; Feb. 5.  
 Vacuum lifter. L. Jones. 1,705,221; Mar. 12.  
 Vacuum massage device, Hand-operated. A. P. Rudolph. 1,730,535; Oct. 8.  
 Vacuum-operated brake. W. O. Kennington. Re17,189; Jan. 8.  
 Vacuum-producing device. C. Brown. 1,704,241; Mar. 5.  
 Vacuum-pump system. J. W. Case. 1,701,359; Feb. 5.  
 Vacuum sander. C. A. Pratte. 1,703,430; Feb. 26.  
 Vacuum-sealed cap, Rotatable. C. Hammer. 1,718,459; June 25.  
 Vacuum-sealed jar. G. Staunton. 1,700,958; Feb. 5.  
 Vacuum servo-brake for motor-driven vehicles. O. J. Badertscher. 1,721,290; July 16.  
 Vacuum tank. T. Bossard. 1,710,253; Apr. 23.  
 Vacuum tank. T. Bossard. 1,731,760; Oct. 15.  
 Vacuum tank. J. C. Coulombe. 1,715,591; June 4.  
 Vacuum tank. J. Ellberg and M. Cronwall. 1,712,985; May 14.  
 Vacuum tank. W. R. Hendricks. 1,721,272; July 16.  
 Vacuum tank. J. N. Johnson. 1,726,567; Sept. 3.  
 Vacuum tank for fuel feeding. J. C. Coulombe. 1,713,265; May 14.  
 Vacuum tube. R. W. Lohman. 1,739,513; Dec. 17.



Vacuum tube. W. A. MacDonald. 1,733,504; Oct. 29.  
Vacuum tube. I. E. Mourmtoff. 1,718,206; June 18.  
Vacuum tube. E. G. Murphy. 1,699,011; Jan. 15.  
Vacuum tube. K. Okabe. 1,735,294; Nov. 12.  
Vacuum tube. G. H. Perryman. 1,740,264; Dec. 17.  
Vacuum tube. O. W. Pike. 1,717,251; June 11.  
Vacuum tube. E. Y. Robinson. 1,739,420; Dec. 10.  
Vacuum tube. S. Ruben. 1,705,538; Mar. 19.  
Vacuum tube. A. G. Thomas. 1,704,155; Mar. 5.  
Vacuum-tube base. J. T. Havekost and J. E. Simonds. 1,724,709; Aug. 13.  
Vacuum-tube capacitance, Reduction of. A. Meissner. 1,697,961; Jan. 8.  
Vacuum-tube circuit. G. W. Carpenter. 1,723,013; Aug. 6.  
Vacuum-tube connector. M. Alden. 1,707,702; Apr. 2.  
Vacuum-tube device. I. E. Mourmtoff. 1,707,275; Apr. 2.  
Vacuum-tube discharge device. A. Mutscheller. 1,738,959; Dec. 10.  
Vacuum-tube filament. H. M. Ryder. 1,700,855; Feb. 5.  
Vacuum tube, Multiple-electrode. F. Conrad. 1,709,659; Apr. 16.  
Vacuum-tube system. F. A. Kolster. 1,738,495; Dec. 3.  
Vacuum tube, Thermionic. R. S. Ohl. 1,713,615; May 21.  
Vacuum tube, Thermionic. R. S. Ohl. 1,726,580; Sept. 3.  
Vacuum tube, Thermionic. A. E. Paige. 1,726,363; Aug. 27.  
Vacuum tubes, Control device for. R. S. Ohl. 1,708,027; Apr. 9.  
Vacuum tubes, Exhausting. H. E. Metcalf. 1,719,773; July 2.  
Vacuum washer and cleaner. V. J. Giampolini. 1,711,380; Apr. 30.  
Vacuumizer. G. A. Gillen. 1,730,419; Oct. 8.  
Vacuums, Method and arrangement for obtaining perfect high. S. Loewe. 1,726,111; Aug. 27.  
Vacuums, Producing high. W. A. Ruggles. 1,712,401; May 7.  
Vaginal douche. A. C. E. Strom. 1,719,315; July 2.  
Valance for window draperies. P. J. MacCaffray. Des. 77,647; Feb. 5.  
Valance retainer, Puffed. A. L. Madsen, jr. 1,736,086; Nov. 19.  
Valise. J. E. Coe. Des. 78,154; Apr. 2.  
Valve. J. H. Appleton. 1,719,316; July 2.  
Valve. F. M. Ashley. 1,698,383; Jan. 8.  
Valve. R. E. Baker. 1,727,628; Sept. 10.  
Valve. W. E. Baker and R. C. Aland. 1,735,888; Nov. 19.  
Valve. B. Bannister. 1,738,135; Dec. 3.  
Valve. F. R. G. Biedermann. 1,733,180; Oct. 29.  
Valve. L. J. Black. 1,707,073; Mar. 26.  
Valve. H. Blum. 1,724,251; Aug. 13.  
Valve. M. J. Burkhard. 1,725,337; Aug. 20.  
Valve. A. F. Burstall. 1,721,204; July 16.  
Valve. W. D. Collins. 1,737,706; Dec. 3.  
Valve. J. H. Cook. 1,728,855; Sept. 17.  
Valve. W. P. Cousino. 1,713,115; May 14.  
Valve. W. H. Criswell and L. W. Bond. 1,713,889; May 21.  
Valve. E. T. Davis. 1,729,990; Oct. 1.  
Valve. G. C. Davis. 1,711,923; May 7.  
Valve. La V. Drake. 1,740,811; Dec. 24.  
Valve. G. B. Duffield. 1,719,801; July 2.  
Valve. C. P. Eisenhauer. 1,722,412; July 30.  
Valve. A. J. and I. P. Fauser. 1,716,722; June 11.  
Valve. C. F. Fernald. 1,738,236; Dec. 3.  
Valve. G. W. Fisher. 1,730,497; Oct. 8.  
Valve. T. B. Ford. 1,712,298; May 7.  
Valve. J. H. Godfrey. 1,708,267; Apr. 9.  
Valve. J. H. Godfrey. 1,724,016-17; Aug. 13.  
Valve. J. H. Godfrey. 1,734,569; Nov. 5.  
Valve. R. Grant. 1,716,377; June 11.  
Valve. S. Greenhouse. 1,716,850; June 11.  
Valve. A. E. Harris. 1,708,224; Apr. 9.  
Valve. C. D. Harrison and P. D. Lindsey. 1,708,060; Apr. 9.  
Valve. G. Hilger. 1,706,230; Mar. 19.  
Valve. R. Jardine. 1,726,353; Aug. 27.  
Valve. F. Johnson. 1,698,439; Jan. 8.  
Valve. W. T. Jones. 1,738,248; Dec. 3.  
Valve. E. J. Kiley. 1,703,674; Feb. 26.  
Valve. O. V. Kruse. 1,723,736; Aug. 6.  
Valve. O. V. Kruse. 1,727,548; Sept. 10.  
Valve. O. V. Kruse. 1,734,733; Nov. 5.  
Valve. J. D. Langdon. 1,738,437; Dec. 3.  
Valve. C. W. Lerner. 1,723,359; Aug. 6.  
Valve. O. Larsen. 1,708,273; Apr. 9.  
Valve. A. J. Loepsinger. 1,699,706; Jan. 22.  
Valve. G. G. Lynch and L. B. Tillery. 1,727,295; Sept. 3.  
Valve. J. Martorell. 1,728,500; Sept. 17.  
Valve. E. I. McGee. 1,742,043; Dec. 31.  
Valve. C. B. McKenna. 1,741,198; Dec. 31.  
Valve. J. C. Meloon. 1,726,274; Aug. 27.  
Valve. J. Messmer. 1,716,277; June 4.  
Valve. P. Meyer. 1,699,668; Jan. 22.  
Valve. J. C. Moody. 1,705,941-2; Mar. 19.  
Valve. C. A. Nevins. 1,714,690; May 28.  
Valve. S. J. Nordstrom. Re17,338; June 25.  
Valve. S. J. Nordstrom. Re17,375; July 16.  
Valve. A. U. Oden. 1,723,066; Aug. 6.  
Valve. H. E. Page. 1,703,165; Feb. 26.  
Valve. W. H. Parker and C. A. Taylor. 1,700,073; Jan. 22.  
Valve. P. Pascale. 1,739,015; Dec. 10.  
Valve. F. M. Patterson. 1,697,608; Jan. 1.  
Valve. J. B. Powers. 1,741,735; Dec. 31.  
Valve. M. Resek and J. A. Dahistrom. 1,733,204; Oct. 29.  
Valve. H. F. Rodler. 1,702,021; Feb. 12.  
Valve. O. F. Russell. 1,727,301; Sept. 3.  
Valve. E. F. Ryan and E. T. Adams. 1,738,450; Dec. 3.  
Valve. F. Schmidt. 1,740,041; Dec. 17.  
Valve. F. Schoenbucher. 1,701,217; Feb. 5.  
Valve. C. T. Siebert, jr., and B. Walter. 1,727,677; Sept. 10.  
Valve. W. E. Sloan. 1,714,573; May 28.  
Valve. N. M. Small. 1,698,567; Jan. 8.  
Valve. A. A. Snebold. 1,724,686; Aug. 13.  
Valve. T. A. Steinmetz. 1,703,411; Feb. 26.  
Valve. A. Tebaldi. 1,730,306; Oct. 1.  
Valve. C. M. Terry. 1,701,284; Feb. 5.  
Valve. R. H. Thorne. 1,717,859; June 18.  
Valve. J. A. Tilden. 1,725,428; Aug. 20.  
Valve. E. L. Van Buskirk. 1,731,881; Oct. 15.  
Valve. C. H. Veeder. 1,710,248; Apr. 23.  
Valve. Y. V. Veenschoten. 1,720,938; July 16.  
Valve. F. J. Welch, O. G. Hawkins, and J. G. Hagenlocker. 1,723,978; Aug. 6.  
Valve. R. Welcker. 1,700,111; Jan. 22.  
Valve. A. L. Wertz. 1,710,635; Apr. 23.  
Valve. W. G. Wilson. 1,699,217; Jan. 15.  
Valve. W. G. Wilson. 1,721,324; July 16.  
Valve. W. L. Wilson. 1,713,015; May 14.  
Valve action for internal-combustion engines, Poppet. W. M. Goodwin. 1,741,230; Dec. 31.  
Valve action, Pneumatic. C. F. Stoddard. 1,720,405; July 9.  
Valve-actuating mechanism. C. C. Williams. 1,707,244; Apr. 2.  
Valve-actuating mechanism. C. C. Williams. 1,734,842; Nov. 5.  
Valve-actuating mechanism, Sleeve. W. A. Frederick. 1,697,560; Jan. 1.  
Valve actuation, Electrical. W. C. Chitty. 1,734,419; Nov. 5.  
Valve actuator. R. H. Shadrick. 1,698,281; Jan. 8.  
Valve actuator. P. F. Shivers. 1,713,402; May 14.  
Valve-adjusting means for internal-combustion engines. R. W. A. Brewer. 1,741,677; Dec. 31.  
Valve and swing spout, Combination. L. Schlesinger and H. E. Heine. 1,737,734; Dec. 3.  
Valve, Air. M. E. Anderson. 1,729,469; Sept. 24.  
Valve, Air. R. E. Mitton. Re17,402; Aug. 13.  
Valve, Air. W. F. Rosenfield. 1,725,674; Aug. 20.  
Valve, Air-bag. C. Van Rennes. 1,735,700; Nov. 12.  
Valve, Air-pressure. E. H. Lehr. 1,734,298; Nov. 5.  
Valve, Air-relief. R. B. Derryberry. 1,698,990; Jan. 15.  
Valve, Air-supply-regulating. L. Kobash. 1,732,897; Oct. 22.  
Valve, Alarm check. J. F. Vera. 1,699,085; Jan. 15.  
Valve, anchor, and packer, Combined. W. H. Blakely. 1,719,582; July 2.  
Valve and attaching same, Tank-car. V. Willoughby. 1,706,092; Mar. 19.  
Valve and leak stop, Portable fire-hose cut-off. M. J. Burke. 1,726,176; Aug. 27.  
Valve and making same, Collapsible. W. W. MacDonald. 1,702,974; Feb. 19.  
Valve and plunger for deep-well pumps, Working. F. I. Nevill. 1,703,354; Feb. 26.  
Valve and system embodying the same, Controlling. F. W. and G. A. Robertshaw. 1,704,487; Mar. 5.  
Valve and valve-actuating mechanism of two-stroke cycle internal-combustion engines. J. H. Booth and F. A. Sidwell. 1,719,388; July 2.  
Valve and valve gate therefor. R. W. Mueller. 1,703,161; Feb. 26.  
Valve and valve seat, Fluid-cooled. T. S. Blair. 1,731,222; Oct. 8.  
Valve and valve-stem construction for self-grinding valves. L. D. Collar. 1,736,253; Nov. 19.  
Valve assembly, Emergency-. W. Wahl. 1,704,310; Mar. 5.  
Valve assembly, Lower-pump-. D. E. Byers. 1,726,804; Sept. 3.  
Valve-assembling machine. E. F. Tobold. 1,697,620; Jan. 1.  
Valve attaching and inflating machine. S. Malke. 1,708,480; Apr. 9.  
Valve attachment, Triple-. C. O. Glenn. 1,713,651; May 21.  
Valve, Automatic. E. L. Barnes. 1,714,756; May 28.  
Valve, Automatic. P. Belyavin. 1,720,993; July 16.  
Valve, Automatic brake-releasing. S. W. McClung, D. L. Boyd, and H. B. Morris. 1,707,636; Apr. 2.  
Valve, Automatic brake-releasing. S. W. McClung, D. L. Boyd, and H. B. Morris. 1,730,778; Oct. 8.  
Valve, Automatic control. J. Kropenicki and J. Zielinski. 1,711,951; May 7.  
Valve, Automatic control. C. J. Miller. 1,719,070; July 2.  
Valve, Automatic control. E. Rawson. 1,708,738; Apr. 9.  
Valve, Automatic control. E. Rawson. 1,719,081; July 2.  
Valve, Automatic drain. A. L. Brice. 1,734,028; Nov. 5.  
Valve, Automatic exhaust. E. A. Ferris. 1,697,352; Jan. 1.  
Valve, Automatic expansion. J. Frankenberg. 1,712,697; May 14.  
Valve, Automatic liquid-supply. O. Larsen. 1,734,586; Nov. 5.  
Valve, Automatic oil-feeding and starting. W. R. Ray. 1,701,191; Feb. 5.



- Valve, Automatic pressure-controlled. J. C. Cunningham and W. S. Nelson. 1,709,119; Apr. 16.
- Valve, Automatic self-closing. O. A. Price. 1,736,938; Nov. 26.
- Valve, Automatic self-operating flushing. A. Bullock. 1,723,599; Aug. 6.
- Valve, Automatic shut-off. W. L. Abel. 1,705,169; Mar. 12.
- Valve, Automatic shut-off. A. B. Case. 1,739,207; Dec. 10.
- Valve, Automatic shut-off. P. D. Lindsey. 1,697,280; Jan. 1.
- Valve, Automatic shut-off. R. C. McWane. 1,697,989; Jan. 8.
- Valve, Automatic shut-off. H. R. Stambaugh. 1,712,056; May 7.
- Valve, Automatically-acting spring flap. M. F. Guter-muth. 1,697,004; Jan. 1.
- Valve bag and making same. L. H. Hartman. 1,739,758; Dec. 17.
- Valve, Balance. P. Collins and A. A. Lane. 1,730,408; Oct. 8.
- Valve, Bell-ringer. O. B. Holmsquist, sr. 1,700,053; Jan. 22.
- Valve block for fluid-pressure tools. E. W. Stevens. 1,739,927; Dec. 17.
- Valve, Blow-off. S. F. Brooks and G. W. Ferling. 1,702,105; Feb. 12.
- Valve, Blow-off. H. J. Moyer. 1,728,077; Sept. 10.
- Valve, Booster and release. E. W. Davis. 1,720,885; July 16.
- Valve box. N. Forni. 1,710,571; Apr. 23.
- Valve bracket, Retaining-. L. J. Brown. 1,726,884; Sept. 3.
- Valve bracket, Retaining. S. H. Campbell. 1,700,120; Jan. 29.
- Valve bracket, Retaining. S. O. Taylor. 1,737,869; Dec. 3.
- Valve, Butterfly. S. Barfoed. 1,706,020; Mar. 19.
- Valve cap, Air-. H. Watkiss. 1,712,597; May 14.
- Valve case and producing the same. W. A. O'Bannon. Re17,481; Nov. 5.
- Valve case and producing the same. W. A. O'Bannon. 1,714,398; May 21.
- Valve casings, Making. L. Jones. 1,733,226; Oct. 29.
- Valve, Check. E. E. Clark. 1,699,095; Jan. 15.
- Valve, Check. F. B. McCrosky. 1,700,234; Jan. 29.
- Valve, Check. J. T. Oxford. 1,721,353; July 16.
- Valve, Check. G. E. R. Rothenbuecher. 1,703,248; Feb. 26.
- Valve, Check. I. H. Spencer. 1,708,907; Apr. 9.
- Valve, Check or globe. H. R. Porter. 1,733,276; Oct. 29.
- Valve chest. S. Dean. 1,707,220; Apr. 2.
- Valve, Chromium-plated exhaust. W. M. Phillips. 1,731,202; Oct. 8.
- Valve circuits, Thermionic. P. W. Willans. 1,712,060; May 7.
- Valve-closing mechanism. J. L. Shrode. 1,735,511; Nov. 12.
- Valve-closing mechanism, Wind-actuated. E. Krause. 1,701,857; Feb. 12.
- Valve, Closure. W. H. Rose. 1,730,436; Oct. 8.
- Valve, cock, and the like. J. Ellberg and M. Cronwall. 1,741,983; Dec. 31.
- Valve, Combination air and oil. C. W. Johnson. 1,738,071; Dec. 3.
- Valve, Combination pressure regulating and relief. P. J. Riley. 1,725,539; Aug. 20.
- Valve, Combination stop and check. B. B. Foulkrod. 1,717,022; June 11.
- Valve, Combined hot and cold water. B. Rosenbaum. 1,730,534; Oct. 8.
- Valve, Combined inflating and deflating. M. E. Anderson. 1,724,063; Aug. 13.
- Valve, Compressor. F. R. Erbach. 1,737,710; Dec. 3.
- Valve, Compressor. J. C. McCune. 1,739,603; Dec. 17.
- Valve, Constant-pressure. C. J. Odend'hal. 1,716,832; June 11.
- Valve construction. W. A. Anglemeyer. 1,718,807; June 25.
- Valve construction. M. J. Boyle. 1,720,316; July 9.
- Valve construction. J. A. Stubblefield. 1,742,107; Dec. 31.
- Valve construction. R. Wehr. 1,697,098; Jan. 1.
- Valve construction. R. Wehr. 1,724,239; Aug. 13.
- Valve construction, Coke-oven-. N. G. Farry. 1,704,209; Mar. 5.
- Valve construction controlling the operation of grease dispensers. G. Emmert. 1,704,596; Mar. 5.
- Valve construction for compressors and refrigerating pumps. A. Stoll. 1,719,572; July 2.
- Valve construction, Standing-. E. J. Carnahan. 1,736,486; Nov. 19.
- Valve control, Automatic choke. P. F. Little. 1,741,706; Dec. 31.
- Valve control, Automatic spark and choke-. H. J. Edwards. 1,707,715; Apr. 2.
- Valve control, Fuel-. R. F. Boger. 1,711,403; Apr. 30.
- Valve-control mechanism for water softeners. V. L. Tannehill. 1,732,702; Oct. 22.
- Valve-control rods in internal-combustion engines, Construction of. J. M. Heinrich. 1,724,836; Aug. 13.
- Valve control, Semiautomatic bleeder-. J. C. Shannon. 1,729,132; Sept. 24.
- Valve-control system, Tank-. P. S. Shield. 1,714,927; May 28.
- Valve control, Thermostatic. J. L. Breese, jr. 1,700,428; Jan. 29.
- Valve control, Thermostatic. A. O. Nelson. 1,711,901; May 7.
- Valve-controlling apparatus. J. O. Woodsome. 1,715,022; May 28.
- Valve, Cooker. R. H. Wentorf. 1,698,977; Jan. 15.
- Valve-cut-off safety apparatus. F. P. Robertson. 1,720,379; July 9.
- Valve, Cut-out. A. E. Linendoll. 1,706,700; Mar. 26.
- Valve, Cylinder drain. O. O. Fusch and P. Hammer. 1,706,920; Mar. 26.
- Valve device. C. B. Mack. 1,740,774; Dec. 24.
- Valve device. W. C. Wright and A. B. Cocherell. 1,713,636; May 21.
- Valve device, Brake-controlling. J. M. J. Dormoy. 1,727,367; Sept. 10.
- Valve device, Feed-. W. E. Dean. 1,709,899; Apr. 23.
- Valve device, Feed-. W. E. Dean. 1,733,183; Oct. 29.
- Valve device, Feed-. C. C. Farmer. 1,697,972; Jan. 8.
- Valve device, Feed-. C. C. Farmer. 1,709,903-5; Apr. 23.
- Valve device, Retaining-. C. C. Farmer. 1,733,188; Oct. 29.
- Valve device for bathtubs, etc., Waste. E. M. Reedy. 1,737,804; Dec. 3.
- Valve device for respirators or the like. H. F. Shindel. 1,701,277; Feb. 5.
- Valve device, Triple-. T. H. Thomas. 1,736,021; Nov. 19.
- Valve device, Variable-load. J. C. McCune. 1,723,191; Aug. 6.
- Valve, Diaphragm. J. P. Crowley. 1,740,004; Dec. 17.
- Valve, Diaphragm control. J. F. Howarth. 1,710,983; Apr. 30.
- Valve, Discharge. W. E. Warner. 1,716,397; June 11.
- Valve disks, Forming. E. J. Kiley. 1,731,224; Oct. 8.
- Valve, Dispensing. W. N. Lurcott. 1,726,402; Aug. 27.
- Valve, Dispensing. W. C. Morrill. 1,715,774; June 4.
- Valve, Drain. R. H. George. 1,728,676-8; Sept. 17.
- Valve dresser, Hand. W. Barber. 1,728,918; Sept. 24.
- Valve, drier, and strainer, Combination. J. O. Carrey. 1,726,805; Sept. 3.
- Valve, Drifting. R. W. Braden and C. Stern. 1,709,057; Apr. 16.
- Valve, Dry-pipe. E. E. Clark. 1,711,772; May 7.
- Valve, Electrically-operated. A. O. Dady and L. R. Teeple. 1,700,029; Jan. 22.
- Valve, Electromagnetic. L. O. French. 1,697,953; Jan. 8.
- Valve, Electromagnetic. D. O. Marks. 1,708,276; Apr. 9.
- Valve, Electromagnetic. H. W. Protzeller. 1,709,095; Apr. 16.
- Valve, Electropneumatic brake. C. A. Campbell. 1,702,152; Feb. 12.
- Valve, Emergency. C. A. Campbell. 1,715,220; May 28.
- Valve, Emergency check. L. I. Ve Verka. 1,703,801; Feb. 26.
- Valve, Emergency plug shut-off. L. D. Lovekin. 1,712,116; May 7.
- Valve, Emergency water-operated shut-off. L. D. Lovekin. 1,723,567; Aug. 6.
- Valve, Encased adjustable weight-loaded. F. H. Hopkins and F. B. Woodman. 1,737,588; Dec. 3.
- Valve, End train-pipe. J. O. Brumbaugh. 1,738,690; Dec. 10.
- Valve, End-train-pipe. E. H. Gold and E. A. Russell. 1,697,684; Jan. 1.
- Valve, Engine. F. L. Croft. 1,697,718; Jan. 1.
- Valve engine, Sleeve-. A. M. Niven. 1,734,395; Nov. 5.
- Valve, Exhaust. A. Taub. 1,727,621; Sept. 10.
- Valve, Expansion. F. J. Heideman. 1,701,185; Feb. 5.
- Valve, Expansion. S. E. Wilson. 1,702,186; Feb. 12.
- Valve, Extension handle for nonlifting injector-starting. F. J. Karkoska. 1,727,236; Sept. 3.
- Valve facing. F. P. Snow. 1,704,955; Mar. 12.
- Valve fastening, Retaining-. C. M. Hannaford. 1,724,929; Aug. 20.
- Valve, Faucet. J. S. Judell and J. P. Bittel. 1,738,250; Dec. 3.
- Valve, Filling. T. McGhee and P. Woodhead. 1,731,585; Oct. 15.
- Valve fixture. J. G. Zolleis. 1,704,851; Mar. 12.
- Valve, Float. L. F. Defenbaugh. 1,710,410; Apr. 23.
- Valve, Float. F. E. Lee. 1,729,484; Sept. 24.
- Valve, Float. L. C. Smith. 1,734,604; Nov. 5.
- Valve, Float. J. M. Teahen. 1,705,343; Mar. 12.
- Valve, Float-ball. E. L. Stimson. 1,739,185; Dec. 10.
- Valve, Float-controlled. D. H. Lee. 1,700,360; Jan. 29.
- Valve, Float-controlled. C. L. Rayfield. 1,727,082; Sept. 3.
- Valve float, Flush-. E. L. Delany. 1,726,016; Aug. 27.
- Valve float for flush tanks, Flush-. E. L. Delany. 1,712,605; May 14.
- Valve, Floating. W. F. Ambrose and J. B. Forrester. 1,712,015; May 7.
- Valve, Floating pressure and vacuum relief. E. W. Roth. 1,727,785; Sept. 10.
- Valve, Flood-tide and backwater. A. M. Khun. 1,700,636; Jan. 29.
- Valve, Flow-control. H. B. Fridstein. 1,727,591; Sept. 10.
- Valve, Fluid. R. E. Mitton. 1,721,349; July 16.
- Valve, Fluid-braking control. W. Doty. 1,727,970; Sept. 10.
- Valve, Fluid-control. E. H. Smith. 1,703,180; Feb. 26.
- Valve, Fluid-measuring. J. D. Langdon. 1,711,235; Apr. 30.



Valve, Fluid-operated. F. Benske. 1,697,944; Jan. 8.  
 Valve, Fluid-operated. N. Trbojevich. 1,696,984; Jan. 1.  
 Valve, Fluid-operated pressure. P. M. Grant. 1,710,054-5; Apr. 23.  
 Valve, Flush. F. P. Angell. 1,735,228; Nov. 12.  
 Valve, Flush. H. E. Darrow. 1,714,591; May 28.  
 Valve, Flush. L. H. Handy. 1,735,244; Nov. 12.  
 Valve, Flush. R. Heare. 1,731,571; Oct. 15.  
 Valve, Flush. E. R. Hill. 1,699,890; Jan. 22.  
 Valve, Flush. G. B. Jones. 1,724,940; Aug. 20.  
 Valve, Flush. C. D. Myer. 1,722,153; July 23.  
 Valve, Flush. W. E. Sloan. 1,697,481; Jan. 1.  
 Valve, Flush. A. Sterbenz and J. Amsler. 1,733,633; Oct. 29.  
 Valve, Flush-tank. A. H. Kennedy. 1,705,367; Mar. 12.  
 Valve, Flush-tank. A. Koropczyk. 1,718,744; June 25.  
 Valve, Flush-tank. A. P. Ricard. 1,736,368; Nov. 19.  
 Valve, Flushing. A. Jacobson and A. L. Ogilvie. 1,706,404; Mar. 26.  
 Valve, Foot. F. B. Connell and E. V. Kelley. 1,699,954; Jan. 22.  
 Valve for air brakes, Vent. C. A. Campbell. 1,725,848; Aug. 27.  
 Valve for air guns, Operating. W. Foss. 1,730,201; Oct. 1.  
 Valve for airships, balloons, and the like. H. Naatz. 1,729,516; Sept. 24.  
 Valve for automobile heaters, Exhaust-line cut-off. E. Van Hollen. 1,730,985; Oct. 8.  
 Valve for automobile radiators, Float. E. Bugatti. 1,721,331; July 16.  
 Valve for built-in plumbing fixtures. L. W. Mueller. 1,714,802; May 28.  
 Valve for carburetors, Air. H. B. Petit. 1,707,942; Apr. 2.  
 Valve for cisterns, Flushing. N. A. Morro. 1,736,719; Nov. 19.  
 Valve for combustion engines, Fuel. M. Sedlmair. 1,732,732; Oct. 22.  
 Valve for combustion turbines, Inlet. F. Hofmann. 1,716,890; June 11.  
 Valve for compressed-air brakes, Control. A. and E. A. Anderberg. 1,701,905; Feb. 12.  
 Valve for compressed gases, Double-acting check. P. Dorsey. 1,698,156; Jan. 8.  
 Valve for compressor regulators, Pilot. W. Raymond. 1,697,404; Jan. 1.  
 Valve for compressors. C. H. Leinert. 1,700,372; Jan. 29.  
 Valve for compressors. C. H. Leinert. 1,735,205; Nov. 12.  
 Valve for concrete-mixing machines, Free-way. C. F. Ball. 1,720,197; July 9.  
 Valve for cookers. R. N. Kircher. 1,703,196; Feb. 26.  
 Valve for cotton gins, Four-way. H. W. McNeill. 1,733,897; Oct. 29.  
 Valve for drilling rigs, Back-pressure. E. Gray and R. A. Mueller. 1,740,770; Dec. 24.  
 Valve for explosion engine, Rotary. J. Gerin. 1,724,275; Aug. 13.  
 Valve for fluid brakes, Control. C. A. Sawtelle. 1,727,943; Sept. 10.  
 Valve for fluid containers, Dump. G. A. Page, jr. 1,737,123; Nov. 26.  
 Valve for fluid-pressure-actuated motors. F. Johnson. 1,714,910; May 28.  
 Valve for fluid-pressure engines, Rotary. W. H. Peacey. 1,709,036; Apr. 16.  
 Valve for fluid radiators, Combined supply and automatic temperature-control. F. L. Hutchinson. 1,710,875; Apr. 30.  
 Valve for flush tanks. H. W. Weida. 1,717,428; June 18.  
 Valve for fuel burners, Thermostatic cut-off. E. A. Klega. 1,708,446; Apr. 9.  
 Valve for fuel-storage tanks. J. H. Viele. 1,737,529; Nov. 26.  
 Valve for gas lines, Safety cut-off. C. M. Smith. 1,704,633; Mar. 5.  
 Valve for gas turbines. H. Holzwarth. 1,731,778; Oct. 15.  
 Valve for gasoline and like containers, Filling. R. E. Bateman. 1,719,960; July 9.  
 Valve for gasoline engine, Sliding. H. E. Welch. 1,722,873; July 30.  
 Valve for gasoline motors, Sleeve. H. A. Recen. 1,734,345; Nov. 5.  
 Valve for gasoline tanks and batteries, Cap. O. F. McAttee. 1,717,573; June 18.  
 Valve for high-pressure boilers, Safety. B. Broido. 1,733,575; Oct. 29.  
 Valve for hydraulic mains. K. Hassold. 1,710,214; Apr. 23.  
 Valve for hydrocarbon engines, Rotary. F. E. Davidson. 1,724,458; Aug. 13.  
 Valve for hydropneumatic tanks, Automatic air. F. A. Schossow. 1,728,577; Sept. 17.  
 Valve for ice pans, Automatic air-supply. I. Cowles. 1,720,034; July 9.  
 Valve for inflatable articles. B. L. Henry. 1,723,855; Aug. 6.  
 Valve for internal-combustion engines. R. E. Bissell. 1,729,981; Oct. 1.  
 Valve for internal-combustion engines. H. R. Ricardo. 1,733,696; Oct. 29.  
 Valve for internal-combustion engines. D. G. F. White. 1,740,758; Dec. 24.

Valve for internal-combustion engines, Auxiliary air. A. G. Wagner. 1,715,440; June 4.  
 Valve for internal-combustion engines, Extra air. F. Smith. 1,726,864; Sept. 3.  
 Valve for internal-combustion engines, Rotary. R. L. Danford. 1,702,816; Feb. 19.  
 Valve for internal-combustion engines, Rotary. E. Hedglin. 1,712,434; May 7.  
 Valve for internal-combustion turbines, Nozzle. H. Holzwarth. 1,700,700; Jan. 29.  
 Valve for motor-operated transporting tanks and means to selectively actuate the valve, Safety discharge. E. D. McCaddam. 1,737,933; Dec. 3.  
 Valve for musical wind instruments. H. J. Charlton. 1,708,259; Apr. 9.  
 Valve for oil-distributing systems. O. Morgan and J. W. Stark. 1,732,107; Oct. 15.  
 Valve for oil-pumping equipment, Gas vent. C. W. Reese. 1,739,770; Dec. 17.  
 Valve for oil tanks and the like, Automatic cut-off and gauge. J. W. Force. 1,704,501; Mar. 5.  
 Valve for pipe lines, Regulator. R. J. McNulty. 1,714,182; May 21.  
 Valve for pneumatic tires. P. M. Salerno. 1,738,927; Dec. 10.  
 Valve for pneumatic tires, Automatic safety. D. E. Washington. 2d. 1,738,621; Dec. 10.  
 Valve for pneumatic tools. F. A. Jimerson. 1,737,312; Nov. 26.  
 Valve for pressure control of hot-water heating systems, Regulating. A. M. Hahn and A. W. Cash. 1,697,865; Jan. 8.  
 Valve for pressure-operated dump cars, Operating. J. P. Anderson. 1,699,387; Jan. 15.  
 Valve for pressure pumps, Relief. O. C. Kiger and R. Shelton. 1,735,117; Nov. 12.  
 Valve for pump assemblies. H. A. Greenwald and F. J. Heldeman. 1,718,350; June 25.  
 Valve for radiators, Inset. C. D. Hickman. 1,738,052; Dec. 3.  
 Valve for refrigerating machines, Regulating. C. F. Schleher. 1,716,355; June 4.  
 Valve for refrigerating systems, Automatic control. J. L. Shrode. 1,711,699; May 7.  
 Valve for resilient tubes. G. Nernæss. 1,710,783; Apr. 30.  
 Valve for rock drills. L. C. Bayles. 1,726,334; Aug. 27.  
 Valve for rock drills. G. W. Hulshizer. 1,739,143; Dec. 10.  
 Valve for rock drills. F. W. Rudlin. 1,711,811; May 7.  
 Valve for rock drills. W. A. Smith, jr. 1,734,985; Nov. 12.  
 Valve for rock drills. W. A., sr., and W. A. Smith, jr. 1,734,984; Nov. 12.  
 Valve for slush pumps. E. E. Hampton and G. A. Scott. 1,721,114; July 16.  
 Valve for spray guns, Air-control. H. D. Binks. 1,720,389; July 9.  
 Valve for sprinkler systems. E. Tyden. 1,741,548; Dec. 31.  
 Valve for sprinkler systems, Accelerator. A. Fryer. 1,712,262; May 7.  
 Valve for sprinkler systems, By-pass check. A. C. Rowley. 1,720,444; July 9.  
 Valve for steam or other fluids and liquids. H. L. Mason. 1,715,665; June 4.  
 Valve for steam-power plants, Balanced throttle. R. R. Waterman. 1,720,705; July 16.  
 Valve for steam radiators, Air-relief and vacuum check. G. D. Hoffman. 1,708,622; Apr. 9.  
 Valve for stove-burner lighters. M. A. Possons. 1,716,183; June 4.  
 Valve for submarines, Emergency. W. S. Sommer. 1,714,327; May 21.  
 Valve for tank cars and the like. G. Stancu, jr. 1,740,319; Dec. 17.  
 Valve for tank cars, Outlet. S. E. Turner. 1,730,636; Oct. 8.  
 Valve for tank cars, Outlet. S. E. Turner. 1,730,833; Oct. 8.  
 Valve for tanks, Reserve. S. S. Stahl. 1,714,250; May 21.  
 Valve for the air brakes of cars, Differential. H. Kobayashi. 1,715,764; June 4.  
 Valve for washing-machine casings, Outlet. J. H. and K. C. Jones. 1,699,109; Jan. 15.  
 Valve for water softeners or the like. B. H. Ter Beest. 1,707,692; Apr. 2.  
 Valve, Fuel-oil. C. M. Tursky. 1,737,985; Dec. 3.  
 Valve, Fuel-shut-off. H. H. Gilbert. 1,718,644; June 25.  
 Valve, Gas. C. B. Gamble. 1,733,685; Oct. 29.  
 Valve, Gas-control. L. Kraft and L. Mayr. 1,734,258; Nov. 5.  
 Valve, Gas-lift starting. C. C. Carlisle. 1,719,589; July 2.  
 Valve, Gas-regulating. J. H. Smith. 1,703,283; Feb. 26.  
 Valve, Gas-regulating. J. H. Smith. 1,712,313; May 7.  
 Valve, Gas safety. E. E. Borek. 1,703,570; Feb. 26.  
 Valve, Gas shut-off. J. S. McIlhenry. 1,734,631; Nov. 5.  
 Valve, Gas-shut-off. W. G. Wilson. 1,723,593; Aug. 6.  
 Valve, Gate. C. Dupuis. 1,727,161; Sept. 3.  
 Valve, Gate. W. J. Kadlec. 1,713,905; May 21.  
 Valve, Gate. T. E. Murray. 1,738,014; Dec. 3.  
 Valve, Gate. S. W. Sparks. 1,708,851; Apr. 9.  
 Valve, Gate. W. G. Wilson. 1,723,264; Aug. 6.  
 Valve gear for liquid meters on vehicles or the like. A. Nagel. 1,699,440; Jan. 15.



- Valve-grinding mechanism. G. F. Crompton. 1,738,694; Dec. 10.
- Valve handle. J. Fraser. Des. 77,355; Jan. 1.
- Valve handle. H. W. A. Lehnert. 1,730,579; Oct. 8.
- Valve-handle connection. J. Fraser. 1,707,353; Apr. 2.
- Valve head for air engine. N. Koehn. 1,733,542; Oct. 29.
- Valve heater. A. H. Davis, jr. 1,706,997; Mar. 26.
- Valve, High-pressure. M. Mauran. 1,733,421; Oct. 29.
- Valve, High-pressure. M. W. McLaren. 1,713,671; May 21.
- Valve, High-pressure slide. S. Löffler. 1,707,125; Mar. 26.
- Valve, Horn. I. E. Carlson. 1,716,917; June 11.
- Valve, Hydraulic. L. F. Moody. 1,727,517; Sept. 10.
- Valve, Hydraulic reducing. F. E. Stevenson. 1,702,550; Feb. 19.
- Valve, Induction. E. L. Larson and C. A. Braunger. 1,706,855; Mar. 26.
- Valve inserter and puller, Standing-. L. F. Davis. 1,717,497; June 18.
- Valve installation. E. G. Smith. 1,708,805; Apr. 9.
- Valve, Internal-combustion-engine. J. Good. 1,719,508; July 2.
- Valve, Internal-combustion engine. R. J. Thompson. 1,700,862; Feb. 5.
- Valve, Irrigation-pipe. H. F. Congable. 1,737,959; Dec. 3.
- Valve, Key-controlled. J. J. Dunn. 1,700,474; Jan. 29.
- Valve lifter. S. J. Denton. 1,718,120; June 18.
- Valve lifter. W. A. Grubb. 1,709,528; Apr. 26.
- Valve lifter. F. Johnson. 1,726,513; Aug. 27.
- Valve lifter. O. W. Johnson. 1,721,451; July 16.
- Valve lifter. H. Raymond. 1,730,092; Oct. 1.
- Valve lifter. F. J. Weston. 1,721,723; July 23.
- Valve-lifting device. W. C. Merwarth. 1,741,426; Dec. 31.
- Valve, Liquid-dispensing. A. R. Goldrick. 1,699,236-7; Jan. 15.
- Valve, Liquid-measuring. J. D. Langdon. 1,711,234; Apr. 30.
- Valve lock. W. H. Moore. 1,699,905; Jan. 22.
- Valve lock. A. S. and Z. Zeldio. 1,703,701; Feb. 26.
- Valve lock, Tire-. W. J. Hurst. 1,705,365; Mar. 12.
- Valve, Locomotive starting. H. Reed. 1,724,145; Aug. 13.
- Valve, Locomotive throttle. G. F. Blyston. 1,712,245; May 7.
- Valve, Lubricated. F. Milliken. Re17,337; June 25.
- Valve, Lubricated plug. H. P. MacGregor. 1,710,176; Apr. 23.
- Valve, Lubricated plug. H. P. MacGregor. 1,720,523; July 9.
- Valve lubricator. C. C. Farmer. 1,720,265; July 9.
- Valve means for fluid-pressure motors. H. Hueber. 1,726,226; Aug. 27.
- Valve, Measuring. H. M. Henderson. 1,735,390; Nov. 12.
- Valve mechanism. A. J. Adam. 1,741,090; Dec. 24.
- Valve mechanism. D. D. Goldberg. 1,724,079; Aug. 13.
- Valve mechanism. F. D. Holdsworth. 1,707,306; Apr. 2.
- Valve mechanism. E. W. and L. B. Jones and R. G. Battin. 1,722,799; July 30.
- Valve mechanism. K. Kiefer. 1,725,280; Aug. 20.
- Valve mechanism. C. R. Law. 1,734,866; Nov. 5.
- Valve mechanism. C. W. Leonard. 1,733,309; Oct. 29.
- Valve mechanism. S. Lippert. 1,717,700; June 18.
- Valve mechanism. W. H. Manning. 1,737,316; Nov. 26.
- Valve mechanism. K. Marscheider and B. Frisch. 1,705,487; Mar. 19.
- Valve mechanism. F. C. Marshall. 1,740,108; Dec. 17.
- Valve mechanism. F. L. Pivoto. Re17,206; Feb. 5.
- Valve mechanism. F. L. Pivoto. Re17,424; Sept. 3.
- Valve mechanism. C. H. Rich. 1,705,138; Mar. 12.
- Valve mechanism. C. R. Short. 1,701,391; Feb. 5.
- Valve mechanism. R. Showmin. 1,719,674; July 2.
- Valve mechanism. C. W. Stevens. 1,715,176; May 28.
- Valve mechanism, Automatic cut-off. R. A. Walker. 1,723,102; Aug. 6.
- Valve mechanism, Constant-clearance. A. V. D. Willgoos. 1,729,849; Oct. 1.
- Valve mechanism, Control-. W. Wishart. 1,740,135; Dec. 17.
- Valve mechanism for air pumps and the like. G. F. Pfeifer. 1,704,513; Mar. 5.
- Valve mechanism for bottle-cleaning machines. G. J. Meyer. 1,736,978; Nov. 26.
- Valve mechanism for compressed-air brakes. I. Drolshammer. 1,729,931; Oct. 1.
- Valve mechanism for internal-combustion engines. A. P. Brush. 1,710,291; Apr. 23.
- Valve mechanism for internal-combustion engines. C. T. Loback. 1,720,489; July 9.
- Valve mechanism for internal-combustion engines. R. Ragan. 1,732,911; Oct. 22.
- Valve mechanism for internal-combustion engines. E. A. Sperry. 1,711,703; May 7.
- Valve mechanism for internal-combustion engines, Rotary. H. C. Gibson and E. A. Corbin, jr. 1,711,781; May 7.
- Valve mechanism for pressing machines, Steaming-. P. N. Braun. 1,700,484; Jan. 29.
- Valve mechanism for rock drills. W. A. Smith, jr. 1,724,737; Aug. 13.
- Valve mechanism for stoker rams and the like. R. L. Beers. 1,714,123; May 21.
- Valve mechanism for straight and automatic air-brake systems, Automatic. J. J. Brings. 1,716,027; June 4.
- Valve mechanism, Hydraulic. L. W. Shutts. 1,723,382; Aug. 6.
- Valve mechanism, Motor-operated. E. A. Ileman. 1,736,791; Nov. 26.
- Valve mechanism, Planter-. S. K. Dennis. 1,725,446; Aug. 20.
- Valve mechanism, Pressure-maintaining. J. A. Shipp. 1,729,191; Sept. 24.
- Valve mechanism, Self-adjusting. H. V. Alman. 1,707,749; Apr. 2.
- Valve mechanism, Tank-car discharge-. J. J. McBride. 1,706,123; Mar. 19.
- Valve mechanism, Thermostatic. J. H. Kolts. 1,708,508; Apr. 9.
- Valve mechanism, Thermostatic. C. H. Morrow. 1,698,413; Jan. 8.
- Valve mechanism, Washing-machine drain-. J. C. Ross. 1,733,672; Oct. 29.
- Valve mechanism, Water-softener. L. G. Daniels. 1,715,642; June 4.
- Valve mechanisms, Silencer for. C. W. Hall. 1,724,707; Aug. 13.
- Valve, Milk. L. C. Thomsen. 1,711,432; Apr. 30.
- Valve, Mixing. E. L. Delany. 1,713,033; May 14.
- Valve, Mixing and distributing. H. W. A. Lehnert. 1,732,608; Oct. 22.
- Valve, Mud-pump. E. E. Miller. 1,716,896; June 11.
- Valve, Multiple. E. R. Slagle. 1,739,378; Dec. 10.
- Valve, Needle. J. A. Thomas. 1,731,184; Oct. 8.
- Valve, Noiseless ball. E. L. Ball. 1,726,795; Sept. 3.
- Valve, Nondrip. A. Slaten. 1,721,717; July 23.
- Valve, Nonreturn. G. C. Davis. 1,711,924-5; May 7.
- Valve, Oblique-seat. B. Knupfer. 1,720,130; July 9.
- Valve, Operating. E. F. Miller. 1,704,759; Mar. 12.
- Valve-operating device. D. M. Belcher. 1,723,399; Aug. 6.
- Valve-operating means. H. F. Spoehrer. 1,728,015; Sept. 10.
- Valve-operating mechanism. G. J. Belknap. 1,707,040; Mar. 26.
- Valve-operating mechanism. B. R. Bresler. 1,710,289; Apr. 23.
- Valve-operating mechanism. R. W. A. Brewer. 1,741,678; Dec. 31.
- Valve-operating mechanism. A. P. Brush and O. M. Nacker. 1,705,803; Mar. 19.
- Valve-operating mechanism. M. Edwards. 1,718,222; June 25.
- Valve-operating mechanism. W. F. Harrington. 1,698,995; Jan. 15.
- Valve-operating mechanism. H. C. A. Meyer. 1,741,064; Dec. 24.
- Valve-operating mechanism. W. W. Mohr. 1,731,314; Oct. 15.
- Valve-operating mechanism. A. Nutt. 1,714,806-7; May 28.
- Valve-operating mechanism. A. Nutt. 1,722,821; July 30.
- Valve-operating mechanism. A. F. Schwendner. 1,729,458; Sept. 24.
- Valve-operating mechanism. J. G. Smeby. 1,716,010; June 4.
- Valve-operating mechanism. J. C. Turvene. 1,719,737; July 2.
- Valve-operating mechanism for organs. L. J. Wick. 1,736,684; Nov. 19.
- Valve-operating mechanism, Remote-. C. Wilhjelm. 1,709,104; Apr. 16.
- Valve operation for absorption refrigerator systems, Liquor-transfer-. R. E. Schurtz. 1,740,715; Dec. 24.
- Valve-operation system. H. L. Stephenson. 1,711,660; May 7.
- Valve operator. C. H. Folmsbee. 1,727,702; Sept. 10.
- Valve, Organ. E. Verlinden. 1,724,326; Aug. 13.
- Valve organization, Blind-cage standing-. S. B. Sargent. 1,706,593; Mar. 26.
- Valve organization, Standing. C. A. Swanson. 1,703,371; Feb. 26.
- Valve, Oscillating. F. F. White. 1,698,040; Jan. 8.
- Valve, Outlet. H. Vissering. 1,736,179; Nov. 19.
- Valve, Outlet-control. E. N. McComb. 1,735,050; Nov. 12.
- Valve, Poppet. R. E. Bissell. Re17,499; Nov. 26.
- Valve, Pop-up. H. M. Hoelscher. 1,723,038; Aug. 6.
- Valve, Pressure. N. L. Mercur. 1,737,428; Nov. 26.
- Valve, Pressure-actuated. J. C. Goosmann. 1,725,910; Aug. 27.
- Valve, Pressure-control. C. J. Odend'hal. 1,734,823; Nov. 5.
- Valve, Pressure reducing and regulating. B. F. Gaines. 1,711,999; May 7.
- Valve, Pressure-regulating. A. J. McEwan. 1,707,866; Apr. 2.
- Valve, Pressure-regulating. A. J. McEwan. 1,716,705; June 11.
- Valve, Pressure-regulator reducing. L. W. Browne. 1,709,388; Apr. 16.
- Valve, Pressure-release. P. Dorsey and R. D. McIntosh. 1,698,155; Jan. 8.
- Valve pull box, Gas-shut-off. H. Sieben. 1,716,535; June 11.
- Valve puller, Standing-. W. R. Tierce. 1,720,979; July 16.
- Valve, Pump. S. M. Akeyson. 1,705,800; Mar. 19.
- Valve, Pump. R. L. Davis. 1,730,452; Oct. 8.
- Valve, Pump. E. Kibele. 1,707,017; Mar. 26.
- Valve, Pump. J. L. Paterson. 1,725,297; Aug. 20.
- Valve, Push. F. A. Bicknell. 1,734,791; Nov. 5.
- Valve, Quick-action control. H. Rigal. 1,705,139; Mar. 12.



- Valve, Quick-action float. G. R. Mumma. 1,725,820; Aug. 27.
- Valve, Quick-connection. N. H. Gay. 1,700,632; Jan. 29.
- Valve, Quick-release. P. R. Forman. 1,726,102; Aug. 27.
- Valve, Radiator. A. A. Campbell. 1,741,402; Dec. 31.
- Valve, Radiator. C. H. Jockmus. 1,739,721; Dec. 17.
- Valve, Radiator air. J. E. Coleman. 1,712,257; May 7.
- Valve, Radiator relief. A. Buss. 1,741,612; Dec. 31.
- Valve, Radiator vent. J. L. Jacobus. 1,703,673; Feb. 26.
- Valve reamer. A. E. Billger. 1,726,801; Sept. 3.
- Valve, Receptacle-operated. P. W. Horn and N. M. Patrick. 1,704,322; Mar. 5.
- Valve, Reducing. E. V. Anderson. 1,724,891; Aug. 20.
- Valve, Regrinding. I. B. Gilbert. 1,711,593; May 7.
- Valve, Regulating. P. C. Mulligan. 1,719,191; July 2.
- Valve, Regulating. W. C. Newton. 1,706,630; Mar. 26.
- Valve, Regulator. A. E. Slinger. 1,733,432; Oct. 29.
- Valve, Relay control. G. Keith. 1,730,150; Oct. 1.
- Valve, Releasable. J. L., E. C., and B. Johnston. 1,715,504; June 4.
- Valve, Relief. L. W. Browne. 1,719,686; July 2.
- Valve, Relief. C. L. Day, H. C. Boardman, and O. A. Bailey. 1,731,815; Oct. 15.
- Valve, Relief. A. Friedman. 1,740,420-1; Dec. 17.
- Valve, Relief. J. W. Gallagher. 1,712,791; May 14.
- Valve, Relief. F. C. Reed and F. A. Ernst. 1,730,294; Oct. 1.
- Valve, Relief. W. J. Snow. 1,740,422; Dec. 17.
- Valve, Relief. H. R. Trotter. 1,697,937; Jan. 8.
- Valve, Relief. W. O. Webster. 1,739,430; Dec. 10.
- Valve remover. C. J. Murnan. 1,728,695; Sept. 17.
- Valve-reseating device. C. A. Yertson. 1,713,316; May 14.
- Valve, Reservoir release. C. C. Farmer. 1,727,369; Sept. 10.
- Valve, Reversing. D. R. Francis. 1,716,881; June 11.
- Valve, Reversing. W. McKee. 1,729,623; Oct. 1.
- Valve, Rotary. C. De Meester, jr. 1,733,946; Oct. 29.
- Valve, Rotary. J. H. Lehman. 1,731,015-16; Oct. 8.
- Valve, Rotary. O. R. Roux. 1,709,879; Apr. 23.
- Valve, Rotary disk. H. W. A. Dixon. 1,717,012; June 11.
- Valve, Safety. S. E. Meyers. 1,701,305; Feb. 5.
- Valve, Safety. J. Prentice. 1,707,641; Apr. 2.
- Valve, Safety and service. R. C. Woodham. 1,698,616; Jan. 8.
- Valve, Safety check. R. Pearson. 1,721,746; July 23.
- Valve, Safety gas. S. Roman. 1,710,515; Apr. 23.
- Valve, Saxophone. B. G. Bond. 1,716,848; June 11.
- Valve, Screw-operated. F. H. Scott. 1,702,060; Feb. 12.
- Valve-seat cutter. E. Tyden. 1,704,957; Mar. 12.
- Valve-seat-facing apparatus. H. G. Miller. 1,721,310; July 16.
- Valve seat for internal-combustion engines. E. P. Mooers. 1,724,036; Aug. 13.
- Valve-seat puller. J. R. Mahan. 1,726,187; Aug. 27.
- Valve-seat structure for bibs and the like. W. F. Schultheiss. 1,708,241; Apr. 9.
- Valve seating and pulling device. G. E. Lukehart. 1,736,318; Nov. 19.
- Valve seats, Device for resurfacing. H. E. McIntosh. 1,701,329; Feb. 5.
- Valve seats, Liner for. T. S. Purnis. 1,709,807; Apr. 16.
- Valve seats, Making. A. H. Leipert. 1,720,486; July 9.
- Valve, Self-closing. F. Protzer. 1,741,250; Dec. 31.
- Valve, Self-closing. O. A. Youngren. 1,728,465; Sept. 17.
- Valve-separator machine. H. Reichel. 1,701,863; Feb. 12.
- Valve service boxes. Cover structure for. W. E. Burgess. 1,704,854; Mar. 12.
- Valve, Shower. E. Price and W. A. Pfister. 1,704,950; Mar. 12.
- Valve, Shut-off. A. W. Keema. 1,726,302; Aug. 27.
- Valve silencer. C. Berne. 1,728,149; Sept. 10.
- Valve silencer, Ball-cock. W. M. Cary, jr. 1,703,295; Feb. 26.
- Valve, Siphon flush. E. N. Garabedian. 1,725,346; Aug. 20.
- Valve, Slide. K. Karnath. 1,722,752; July 30.
- Valve, Slide. M. O. Klose. 1,727,068; Sept. 3.
- Valve, Slide. W. J. Smith. 1,700,956; Feb. 5.
- Valve, Slush-pump. E. Timbs and L. E. Zerbe. 1,714,740; May 28.
- Valve, Snap-acting. L. W. Browne. 1,719,687; July 2.
- Valve socket, Threaded and reversible standing. S. B. Sargent. 1,703,364; Feb. 26.
- Valve spring clip and manufacturing same. J. Sunnen. 1,736,231; Nov. 19.
- Valve-spring compressor. T. F. Clary. 1,729,736; Oct. 1.
- Valve-spring compressor. E. E. Essen. 1,739,391; Dec. 10.
- Valve-spring compressor. H. W. Kulp and M. C. Dellinger. 1,713,762; May 21.
- Valve-spring compressor. L. Touchette. 1,718,841; June 25.
- Valve-spring lifter and compressor. H. W. Kulp. 1,713,763; May 21.
- Valve-spring-lifter lock, Collapsible. H. W. Kulp and M. C. Dellinger. 1,713,761; May 21.
- Valve, Sprinkler. A. C. Hooper and J. W. McPhee. 1,740,015; Dec. 17.
- Valve, Standing. P. G. Ried. 1,705,208; Mar. 12.
- Valve, Steam. P. Pascale. 1,710,946; Apr. 30.
- Valve, Steam. P. Pascale. 1,712,902; May 14.
- Valve, Steam. J. J. Ryan, jr. 1,739,261; Dec. 10.
- Valve stem. O. G. Stolz. 1,723,190; Sept. 17.
- Valve-stem construction and lock nut therefor, Disk-wheel. J. T. Basseches. 1,722,783; July 30.
- Valve stem for pneumatic tires. F. W. Benton. 1,707,840; Apr. 2.
- Valve-stem guide. W. H. Bice. 1,697,847; Jan. 8.
- Valve stem, Tire-. W. C. Stevens. 1,723,388; Aug. 6.
- Valve stems, Making tire-. E. G. Oakley. 1,702,310; Feb. 19.
- Valve, Stop-cocking. G. C. Davis. 1,733,528; Oct. 29.
- Valve structure. R. W. Dinzel. 1,733,784; Oct. 29.
- Valve structure. H. Feldmeier and F. Wray. 1,721,877; July 23.
- Valve structure. W. F. Herst. 1,721,954; July 23.
- Valve structure. C. W. Holmquist. 1,727,644; Sept. 10.
- Valve structure. E. T. Meakin. 1,722,815; July 30.
- Valve structure, Air-tight. A. E. Pew, jr. 1,720,346; July 9.
- Valve structure for compressors. E. H. Steedman. 1,708,158; Apr. 9.
- Valve structure for compressors. E. H. Steedman. 1,738,403; Dec. 3.
- Valve structure for pneumatic wheels, Dustproof. D. M. Cutshaw. 1,703,263; Feb. 26.
- Valve structure, Trip-. P. W. Knauf. 1,722,754; July 30.
- Valve tappet. G. R. Rich. 1,731,794; Oct. 15.
- Valve tappet. G. R. Rich. 1,735,695; Nov. 12.
- Valve tappet. C. R. Short. 1,718,589; June 25.
- Valve tappet, Composite-metal. G. R. Rich. 1,740,666; Dec. 24.
- Valve-tappet construction. A. O. Abbott, jr. 1,729,468; Sept. 24.
- Valve tappets, Making. G. R. Rich. 1,710,996-7; Apr. 30.
- Valve, Temperature-actuated automatic control. J. and A. C. Sladky. 1,735,475; Nov. 12.
- Valve, Terminal check. W. G. Coles. 1,720,390; July 9.
- Valve testing apparatus, Overhead-. J. B. Fleming. 1,701,876; Feb. 12.
- Valve, Thermionic. W. R. Bullimore. 1,718,632; June 25.
- Valve, Thermionic. C. S. Franklin. 1,721,148; July 16.
- Valve, Thermostatic. A. Beler. Re17,544; Dec. 31.
- Valve, Thermostatic. E. E. Gold. 1,737,585; Dec. 3.
- Valve, Thermostatic. P. H. Hamilton. 1,737,755; Dec. 3.
- Valve, Thermostatic. N. J. Quinn. 1,705,498; Mar. 19.
- Valve, Thermostatic oil-control. J. T. Landgraf. 1,733,888; Oct. 29.
- Valve, Thermostatically-controlled. V. Mauck. 1,717,052; June 11.
- Valve, Thermostatically-operated mixing. W. B. Laskey. 1,715,662; June 4.
- Valve, Throttle. R. W. Clifford. 1,720,665; July 16.
- Valve-timing mechanism. A. V. D. Willgoos. 1,704,815; Mar. 12.
- Valve, Tire. W. E. Copithorn. 1,721,771; July 23.
- Valve, Tire. H. Hasting. 1,740,173; Dec. 17.
- Valve, Tire. G. A. Meek. 1,714,392; May 21.
- Valve, Tire. E. G. Oakley. 1,718,662; June 25.
- Valve, Tire. M. J. Payne. 1,726,762; Sept. 3.
- Valve, Tire inflating and deflating. C. H. Welch. 1,710,128; Apr. 23.
- Valve, Tire pop. G. A. Sutton. 1,732,918; Oct. 22.
- Valve, Tire-pump. H. Hasting. 1,737,536; Nov. 26.
- Valve, Toilet. C. E. Mace. 1,730,374; Oct. 8.
- Valve, Toilet flush. C. E. Young. Dec. 78,721; June 11.
- Valve, Toilet-tank flush. J. C. Owens. 1,728,625; Sept. 17.
- Valve, Train-stop. H. S. Folker. 1,703,578; Feb. 26.
- Valve transmitter, Light-. C. F. Jenkins. 1,740,352; Dec. 17.
- Valve-truing machine. H. E. Kehder. 1,731,535; Oct. 15.
- Valve tubes, Cap for tire-. M. M. Metzinger. 1,709,677; Apr. 16.
- Valve unit for steam traps. C. H. Jockmus. 1,739,638; Dec. 17.
- Valve unit, Motor-operated. C. A. Olson and C. H. Beckwith. 1,736,417; Nov. 19.
- Valve, Universal plug. G. Stancu, jr. 1,730,305; Oct. 1.
- Valve, Vapor-collecting. L. W. Browne. 1,716,339; June 4.
- Valve wheel. H. M. Huffman. Dec. 78,576; May 21.
- Valve yoke construction. A. M. Houser and C. A. Dopp. 1,736,405; Nov. 19.
- Valved bag, Inflatable. M. W. Iden. 1,702,732; Feb. 19.
- Valved brass instrument. E. A. Couturier. 1,729,568; Sept. 24.
- Valving bags, Apparatus for. L. H. Hartman. 1,723,165; Aug. 6.
- Valving bags, Method and apparatus for. C. H. Hartman. 1,719,009; July 2.
- Valves and the like, Mechanism for operating. J. A. McGrew. 1,708,145; Apr. 9.
- Valves and the like, Operating mechanism for. P. P. Dean. 1,708,941; Apr. 16.
- Valves, Assembling. O. Zerk. 1,708,040; Apr. 9.
- Valves, Attachment for air-escape. W. Grosberg and G. Surprenant. 1,733,873; Oct. 29.
- Valves, Fitting for pneumatic-tire. B. Schleicher. 1,698,455; Jan. 8.
- Valves in bags, Method and apparatus for forming. L. H. Hartman. 1,723,164; Aug. 6.
- Valves, Making. R. E. Bissell. 1,699,273; Jan. 15.
- Valves, Making. A. M. Brown. 1,718,630; June 25.
- Valves, Making poppet. J. H. Hoern. 1,724,282; Aug. 13.
- Valves, Making tire. M. C. Schweinert. 1,724,426; Aug. 13.
- Valves of compressors, Balancing apparatus for slide. G. Fornaca. 1,730,200; Oct. 1.



- Valves, Operating device for poppet. E. R. Taylor. 1,706,263; Mar. 19.
- Valves, Pneumatic control for truck tank. P. S. Shield. 1,726,319; Aug. 27.
- Valves, Production of. T. E. Murray, jr. 1,732,241; Oct. 22.
- Valves relating to internal-combustion engines, System of. A. Wang. 1,719,816; July 2.
- Valves, Repacking. G. F. Merrill. 1,737,472; Nov. 26.
- Valveless motor. L. V. Fogas. 1,740,235; Dec. 17.
- Vanadium, Recovering. I. M. Paul. 1,669,923; Jan. 1.
- Vanadium, Recovery of. R. H. Stevens, G. C. Norris, and W. H. Watson. 1,733,700; Oct. 29.
- Vane runner, Adjustable. R. E. B. Sharp. 1,716,328; June 4.
- Vanity and cigarette case, Combination. C. J. Murnane. 1,718,481; June 25.
- Vanity box. R. I. McKnight and P. A. Reutter. 1,709,182; Apr. 16.
- Vanity box or similar article. T. A. De Vilbiss. Des. 77,465; Jan. 15.
- Vanity case. W. L. Bass. 1,703,091; Feb. 26.
- Vanity case. D. A. Brennan. 1,730,555; Oct. 8.
- Vanity case. C. N. Coryell. 1,700,883; Feb. 5.
- Vanity case. C. N. Coryell. 1,713,264; May 14.
- Vanity case. B. B. Deitel. Des. 77,677; Feb. 12.
- Vanity case. L. Friedberg. Des. 79,421; Sept. 17.
- Vanity case. W. J. Hines. 1,710,661; Apr. 23.
- Vanity case. A. N. Lungren. 1,709,990; Apr. 23.
- Vanity case. M. C. Lyddane. Des. 79,829-32; Nov. 5.
- Vanity case. C. K. Marcell. Des. 78,526; May 14.
- Vanity case. J. L. McAtree. 1,709,140; Apr. 16.
- Vanity case. J. F. Moran. 1,717,397; June 18.
- Vanity case. W. Poranski. 1,704,372; Mar. 5.
- Vanity case. P. A. Reutter. 1,735,619; Nov. 12.
- Vanity case. I. Rosenhaft and I. Herskowitz. Des. 77,624; Jan. 29.
- Vanity case. F. E. Wakefield. 1,736,025; Nov. 19.
- Vanity case. D. H. Zell. Des. 78,600; May 21.
- Vanity case. D. H. Zell. Des. 79,866-75; Nov. 5.
- Vanity case. D. H. Zell. 1,733,849; Oct. 29.
- Vanity case, Bracelet. W. B. Weaver. 1,727,001; Sept. 3.
- Vanity cases, Making. K. R. Larson. 1,724,406; Aug. 13.
- Vapor condensing and recovery device. A. E. Hesse. 1,738,773; Dec. 10.
- Vapor electric device. L. D. J. A. Dunoyer and P. M. G. Toulon. 1,739,443; Dec. 10.
- Vapor electric devices, Control of. Y. Matunaga. 1,699,113; Jan. 15.
- Vapor fractionation. J. C. Morrell. 1,738,386; Dec. 3.
- Vapor generator. E. F. Fisher. 1,737,837; Dec. 3.
- Vapor heating system. I. C. Jennings. 1,699,193; Jan. 15.
- Vapor moistener. O. T. Nesbitt. 1,726,916; Sept. 3.
- Vapor oil heater. J. H. Birch. 1,737,911; Dec. 3.
- Vapor or steam generator. C. R. Moore. 1,725,408; Aug. 20.
- Vapors from pressure stills and the like, Fractionating. J. E. Bell. 1,741,275; Dec. 31.
- Vapors, Method and apparatus for condensing. W. Hildebrandt. 1,712,825; May 14.
- Vapors, Method and apparatus for removing. H. W. Cowan. 1,738,641; Dec. 10.
- Vaporize heavy liquid fuel for use as driving power in gas engines generally, Means and device to. P. Galasso. 1,724,273; Aug. 13.
- Vaporizer. G. A. Eynon. 1,740,339; Dec. 17.
- Vaporizer. R. F. Lonaberger and C. F. Sands. 1,726,847; Sept. 3.
- Vaporizer. R. F. Lonaberger and C. F. Sands. 1,738,478; Dec. 3.
- Vaporizer. M. C. Love. 1,728,421; Sept. 17.
- Vaporizer. J. R. Replogle. 1,727,940; Sept. 10.
- Vaporizer. L. C. Strite. 1,723,093; Aug. 6.
- Vaporizer, and fuelizer for internal-combustion engines. R. F. Gildehaus, jr. 1,734,723; Nov. 5.
- Vaporizer and making same. A. Stockstrom. 1,716,195; June 4.
- Vaporizer, Electric. S. H. Rowland. 1,728,446; Sept. 17.
- Vaporizer, Electrical. J. Kaufman and M. Zaiman. 1,717,040; June 11.
- Vaporizer, Electrical chemical. E. M. Zurbrigg. 1,728,885; Sept. 17.
- Vaporizer, Engine-fuel. C. E. Summers. 1,697,795; Jan. 1.
- Vaporizer for explosive engines, Fuel. J. A. Semple. 1,724,521; Aug. 13.
- Vaporizer for internal-combustion engines. G. A. Breeze. 1,729,564; Sept. 24.
- Vaporizer for internal-combustion engines, Heavy-fuel. R. F. Lonaberger and C. F. Sands. 1,718,569; June 25.
- Vaporizer for internal-combustion engines, Heavy-fuel. R. F. Lonaberger and C. F. Sands. 1,737,379; Nov. 26.
- Vaporizer for internal-combustion engines, Water. O. Nimrick and G. W. Hinton. 1,730,089; Oct. 1.
- Vaporizer for use with solar energy. R. H. Goddard. 1,700,675; Jan. 29.
- Vaporizer, Fuel. A. P. Plaut. 1,720,922; July 16.
- Vaporizer-heat-controlling means. E. M. Getzoff. 1,701,917; Feb. 12.
- Vaporizer, Mineral-oil. A. E. Pew, jr. 1,700,709; Jan. 29.
- Vaporizer, Oil. A. C. Sweeney. 1,725,111; Aug. 20.
- Vaporizer, Sterilizing. J. E. Kenney. 1,711,793; May 7.
- Vaporizing apparatus. D. E. Fowler. 1,732,125; Oct. 15.
- Vaporizing device. W. H. Odium. 1,727,899; Sept. 10.
- Vaporizing device, Electrical. W. H. Odium. Des. 78,695; June 4.
- Vaporizing fuel for internal-combustion engines. H. C. Mallory. 1,731,583; Oct. 15.
- Vaporizing liquids by means of accumulated heat, Apparatus for. A. Breisig. 1,733,292; Oct. 29.
- Vaporizing, mixing, and feeding device, Air and liquid-fuel. L. Martin. 1,716,074; June 4.
- Vaporizing system for combustion engines. J. T. Barnhart. 1,730,990; Oct. 8.
- Variable-capacity element. C. T. Allcutt. 1,716,161; June 4.
- Variations of pressure, Apparatus for producing. W. A. Loth. 1,739,600; Dec. 17.
- Variometer. P. D. Andrews. 1,728,028; Sept. 10.
- Variometer. A. Nyman. 1,733,974; Oct. 29.
- Variometers, Adjustment for inductances of. W. L. MacHugh. 1,707,950; Apr. 2.
- Varnish. H. E. Buc. 1,735,493; Nov. 12.
- Varnish-drying machine. B. B. Goldsmith. 1,732,332; Oct. 22.
- Varnish, Making. B. F. Williamson and W. H. Beisler. 1,699,646; Jan. 22.
- Varnish, Method and apparatus for the manufacture of. E. E. Ware. 1,697,218; Jan. 1.
- Varnish, Preparing a synthetic resin. G. E. Landt and W. H. Adams, jr. 1,731,071-2; Oct. 8.
- Varnishing leather and like material. J. Paiseau. 1,742,146; Dec. 31.
- Vase. J. C. Kelly. Des. 79,467; Sept. 24.
- Vase. W. H. Savage. Des. 78,365; Apr. 23.
- Vase element of an electric-light fixture. G. E. Villaret. Des. 80,058; Dec. 3.
- Vase for flowers and the like. E. E. Slick. 1,714,193; May 21.
- Vase, Glass. R. Haley. Des. 77,482; Jan. 15.
- Vase, Ground. A. Dom. 1,723,969; Aug. 6.
- Vase or similar article, Glass. N. Kopp. Des. 77,556; Jan. 22.
- Vat dye and producing the same. H. Wagner, R. Brune, M. Hessenland, E. Hoffa, F. Müller, and H. Heyna. 1,730,699; Oct. 8.
- Vat for washing fiber material and the like wound on bobbins. W. Althoff. 1,725,045; Aug. 20.
- Vat, Nonresounding metal. J. H. Gravel. 1,697,643; Jan. 1.
- Vault, Adjustable steel. R. S. Garver. 1,735,966; Nov. 19.
- Vault, Burial. W. P. Bewley. 1,700,346; Jan. 29.
- Vault, Burial. C. N. Guy. 1,729,774; Oct. 1.
- Vault, Burial. J. F. W. Kipp. 1,700,801; Feb. 5.
- Vault, Burial. R. A. Laidlaw. 1,705,410; Mar. 12.
- Vault, Burial. H. B. McKee. 1,727,242; Sept. 3.
- Vault, Burial. J. D. Monie. 1,713,479; May 14.
- Vault, Concrete burial. W. O. Mahan. 1,700,504; Jan. 29.
- Vault construction. A. Evensen. 1,741,511; Dec. 31.
- Vault handle, Grave. R. E. Smith. 1,705,503; Mar. 19.
- Vault head. A. Wathey. 1,719,151; July 2.
- Vault or receptacle, Self-sealing. W. W. Haase. 1,722,744; July 30.
- Vault, Storage. W. A. Schollmeyer. 1,713,558; May 21.
- Vault structure, Bank-. W. J. Aring and W. E. Adams. 1,736,184; Nov. 19.
- Vegetable and fruit slicer. J. A. McCoy. 1,713,769; May 21.
- Vegetable char, Manufacture of. C. E. Coates. 1,729,162; Sept. 24.
- Vegetable conditioner. J. W. Glenn, F. R. Hood, and J. B. Schwab. 1,735,748; Nov. 12.
- Vegetable cutter. R. A. Katzele and M. C. Christensen. 1,734,191; Nov. 5.
- Vegetable cutter. H. M. Williamson. 1,735,702; Nov. 12.
- Vegetable materials, Treatment of fibrous. O. D. Lucas. 1,739,683; Dec. 17.
- Vegetable-skinning process. M. B. Taylor. 1,699,456; Jan. 15.
- Vegetables, Industrial use of inferior. M. Kahn, E. Le Breton, and G. Schaeffer. 1,724,027; Aug. 13.
- Vegetation, snow, and ice destroyer. E. G. Lang. 1,698,196; Jan. 8.
- Vegetation, snow, and ice destroyer. E. G. Lang. 1,709,270; Apr. 16.
- Vehicle. I. H. Athey and A. R. Schwarzkopf. 1,725,242; Aug. 20.
- Vehicle. A. Bacalu. 1,713,017; May 14.
- Vehicle. L. H. Campbell, jr., and H. A. Knox. 1,738,523; Dec. 10.
- Vehicle. G. O. Crank. 1,737,493; Nov. 26.
- Vehicle. M. Curry. 1,735,601; Nov. 12.
- Vehicle. A. Y. Dodge. 1,719,878; July 9.
- Vehicle. W. Everson. 1,724,754; Aug. 13.
- Vehicle. O. Marklein. 1,711,059; Apr. 30.
- Vehicle. J. R. Millen. 1,706,245; Mar. 19.
- Vehicle. A. M. Sevault and L. J. Gérard. 1,699,031; Jan. 15.
- Vehicle. A. F. Shirreff. 1,730,480; Oct. 8.
- Vehicle. G. C. Snyder. 1,696,927; Jan. 1.
- Vehicle. G. C. Snyder. 1,725,378; Aug. 20.
- Vehicle adapted to travel on track or road. V. C. De Ybarondo. 1,709,248; Apr. 16.
- Vehicle, Advertising service. W. G. Browne. 1,717,184; June 11.
- Vehicle air brake. H. W. Lindholm. 1,721,519; July 23.
- Vehicle, Amusement motor. J. F. Howarth and E. M. Goldsmith. 1,706,162; Mar. 19.
- Vehicle, Aquatic. E. Haby. 1,732,679; Oct. 22.



- Vehicle, Automotive. W. J. Cummings and C. G. Adsit. 1,732,461; Oct. 22.
- Vehicle, bed, Side-dump. G. Curlee. 1,721,616; July 23.
- Vehicle bodies, Construction of closed. T. P. Lohrman. 1,736,856; Nov. 26.
- Vehicle body. G. A. Brown. Des. 80,215; Dec. 31.
- Vehicle body. J. A. Callahan. 1,714,845; May 28.
- Vehicle body. C. Carson. Des. 78,561; May 21.
- Vehicle body. H. R. Darling and H. S. Albertson. Des. 78,732; June 18.
- Vehicle body. B. J. Goldsmith and E. Koeb. 1,704,041; Mar. 5.
- Vehicle body. B. J. Goldsmith and E. Koeb. 1,714,980; May 28.
- Vehicle body. A. W. Hartz. Des. 78,572; May 21.
- Vehicle body. J. R. Hughes. 1,696,955; Jan. 1.
- Vehicle body. J. H. Press. Re17,188; Jan. 8.
- Vehicle body. F. A. Selje. 1,721,976; July 23.
- Vehicle body. C. H. Widman. 78,547; May 14.
- Vehicle body. E. S. Ziegler. 1,710,252; Apr. 23.
- Vehicle body and hood, Combined. L. C. Hill. Des. 78,207; Apr. 9.
- Vehicle body and making same, Road-motor. H. Steinbrugge. 1,711,704; May 7.
- Vehicle body and tire carrier combined. O. H. Spencer. 1,741,346; Dec. 31.
- Vehicle body and windshield construction. H. L. Woodward. 1,715,402; June 4.
- Vehicle body construction. R. W. Jenkins. 1,712,271; May 7.
- Vehicle body construction. W. Marshall and J. Levandoski. 1,710,230; Apr. 23.
- Vehicle body construction. H. Stacks. 1,738,329; Dec. 3.
- Vehicle body construction. C. H. Widman. 1,731,602; Oct. 15.
- Vehicle body, Convertible. H. A. Chandler. 1,713,949; May 21.
- Vehicle body, hood, and fenders, Combined. C. Carson. Des. 78,964; July 16.
- Vehicle body, Motor-. J. H. Butler. 1,719,587; July 2.
- Vehicle body, Passenger-. C. O. Guernsey. 1,710,616; Apr. 23.
- Vehicle body, Safety. S. M. Code. 1,733,331; Oct. 29.
- Vehicle body, Sheet-metal. E. W. Templin. 1,700,090; Jan. 22.
- Vehicle body, Universal-tilting. L. T. Wood. 1,698,522; Jan. 8.
- Vehicle bodies, Post construction for. L. I. Heintz. 1,717,029; June 11.
- Vehicle brake. H. G. Andrews. 1,705,350; Mar. 12.
- Vehicle brake. F. Athimon. 1,727,741; Sept. 10.
- Vehicle brake. N. A. Christensen. 1,707,975; Apr. 9.
- Vehicle brake. E. B. Flanagan. 1,730,928; Oct. 8.
- Vehicle brake. L. Harris. 1,705,565; Mar. 19.
- Vehicle brake. I. Koechlin. 1,732,562; Oct. 22.
- Vehicle brake. C. H. Land. 1,729,391; Sept. 24.
- Vehicle brake. W. L. Martin. 1,721,568; July 23.
- Vehicle brake. W. R. McDonnell. 1,740,993; Dec. 24.
- Vehicle brake. A. Morris. 1,702,449; Feb. 19.
- Vehicle brake. J. Mortka. 1,729,226; Sept. 24.
- Vehicle brake. E. P. Renaux. 1,731,753; Oct. 15.
- Vehicle brake. J. F. Richardson. 1,707,371; Apr. 2.
- Vehicle brake. C. A. Sawtelle. 1,712,172; May 7.
- Vehicle brake. C. A. Sawtelle. 1,725,885; Aug. 27.
- Vehicle brake. E. Schmidtke. 1,709,326; Apr. 16.
- Vehicle brake. E. W. Seaholm. 1,697,785; Jan. 1.
- Vehicle brake. A. H. Stahlhuth. 1,705,035; Mar. 12.
- Vehicle brake. G. H. Vinette. 1,720,307; July 9.
- Vehicle brake, Automatic. W. L. Houston. 1,717,977; June 18.
- Vehicle brake, Motor. A. Moorhouse. 1,722,336; July 30.
- Vehicle brake-operating means. B. M. Schauman. 1,711,695; May 7.
- Vehicle-buffer device. G. A. Lyon. 1,739,849; Dec. 17.
- Vehicle carrying rail, in particular for high-speed suspended-vehicle railways. C. Stedefeld. 1,710,437; Apr. 23.
- Vehicle, Child's. R. H. Brown. 1,716,916; June 11.
- Vehicle, Child's. J. Heberling. 1,702,691; Feb. 19.
- Vehicle, Child's. F. Hornquist. 1,701,410; Feb. 5.
- Vehicle, Child's. A. I. Linden. 1,711,418; Apr. 30.
- Vehicle, Child's. G. McDaniel. 1,728,427; Sept. 17.
- Vehicle, Child's. J. C. Meyers. 1,738,110; Dec. 3.
- Vehicle, Child's. M. W. Rumley. 1,705,540; Mar. 19.
- Vehicle, Child's. T. J. Ryan. Des. 77,562; Jan. 22.
- Vehicle, Child's. T. J. Ryan. 1,705,209; Mar. 12.
- Vehicle, Child's. O. W. Siebert. 1,737,618; Dec. 3.
- Vehicle, Child's. C. W. White. 1,738,858; Dec. 10.
- Vehicle, Child's. G. N. Wolfe. 1,704,068; Mar. 5.
- Vehicle, Child's collapsible. R. H. Brown. 1,718,851; June 25.
- Vehicle, Child's collapsible. R. H. Brown. 1,726,609; Sept. 3.
- Vehicle, Child's spring. R. B. Fageol. 1,704,315; Mar. 5.
- Vehicle, Child's wheeled. A. C. Rohm, jr. 1,724,725; Aug. 13.
- Vehicle closure. B. A. Woina. 1,705,799; Mar. 19.
- Vehicle, Coaster. C. J. Craig. 1,724,564; Aug. 13.
- Vehicle construction. C. Froesch. 1,735,425; Nov. 12.
- Vehicle construction. J. A. Wright. 1,739,535; Dec. 17.
- Vehicle construction, Closed-body. J. Ledwinka. 1,720,336; July 9.
- Vehicle construction, Cushion connection for. A. J. Jansson. 1,697,871; Jan. 8.
- Vehicle construction, Cushioning connection for. J. M. Steele. 1,698,006; Jan. 8.
- Vehicle construction, Motor-. A. C. Hamilton. 1,697,239; Jan. 1.
- Vehicle control for cripples. A. Colanduoni. 1,711,447; Apr. 30.
- Vehicle control, Motor. S. H. Seidman. 1,729,015; Sept. 24.
- Vehicle control pedal, Motor-. H. E. Hull. Re17,520; Dec. 10.
- Vehicle controlling mechanism, Motor-. A. M. Wolf. 1,701,964; Feb. 12.
- Vehicle, Convertible motor. F. A. Lukesh. 1,722,227; July 23.
- Vehicle, Corrugated auto marine. A. E. Cook. 1,722,516; July 30.
- Vehicle cushioning and shock-absorbing device. W. C. Broadwell. 1,701,292; Feb. 5.
- Vehicle, Delivery. H. I. Jacobs. 1,711,202; Apr. 30.
- Vehicle, Dewatering. E. W. McCullough and T. Nolen. 1,704,917; Mar. 12.
- Vehicle drive. A. I. Marcum. 1,703,536; Feb. 26.
- Vehicle drive through double gearing, Electric. J. Werz. 1,730,989; Oct. 8.
- Vehicle driving apparatus and system. A. V. Livingston. 1,723,282-5; Aug. 6.
- Vehicle driving mechanism, Motor-. L. C. Martinsen. 1,707,635; Apr. 2.
- Vehicle, Dumping. C. M. Luck. 1,715,934; June 4.
- Vehicle, Dumping. P. Nelson. 1,709,364; Apr. 16.
- Vehicle, Dumping. T. Nolen and R. T. Perine. 1,740,779; Dec. 24.
- Vehicle, Electrically-driven. G. H. Fletcher and A. Tustin. 1,729,437; Sept. 24.
- Vehicle extraction device. T. Lindner. 1,732,975; Oct. 22.
- Vehicle extricating device. J. C. Storme. 1,700,089; Jan. 22.
- Vehicle fender. W. C. Broadwell. 1,716,300; June 4.
- Vehicle, Folding. N. Straussler. 1,739,269; Dec. 10.
- Vehicle for children. P. J. Martin. 1,693,165; Jan. 8.
- Vehicle for children, Manually-propelled. G. A. Proctor. 1,705,681; Mar. 19.
- Vehicle for manual cotton pickers. B. J. Donada. 1,698,125; Jan. 8.
- Vehicle for service on roads or rails. J. Roberts. 1,713,919; May 21.
- Vehicle for use on roads or railways. M. N. Ridley. 1,716,005; June 4.
- Vehicle for use on roads or railways. M. N. Ridley. 1,729,310; Sept. 24.
- Vehicle, Freight and passenger carrying. L. F. Douglass. 1,718,036; June 18.
- Vehicle front assembly, Motor-. R. D. Parrish. Des. 79,306; Aug. 27.
- Vehicle guard. C. H. Maneval. 1,721,159; July 16.
- Vehicle, Hand-propelled. C. Engesser. 1,733,952; Oct. 29.
- Vehicle heater. L. Blackmore. 1,697,805; Jan. 1.
- Vehicle heater. A. E. Linendoll. 1,706,699; Mar. 26.
- Vehicle heater, Automobile. E. and W. J. Platten. 1,728,697; Sept. 17.
- Vehicle heater, Motor-. C. E. Burrell. 1,716,259; June 4.
- Vehicle, Highway-. J. E. Wright. 1,731,557; Oct. 15.
- Vehicle hoist, Motor-. C. W. Rood. 1,710,552; Apr. 23.
- Vehicle indicator, Motor-. M. Tibbetts. 1,708,708; Apr. 9.
- Vehicle indicator switch. J. L. Wettlaufer. 1,740,634; Dec. 24.
- Vehicle jack. T. R. Brumfield. 1,716,949; June 11.
- Vehicle jack. J. H. Burkholder. 1,715,897; June 4.
- Vehicle jack. F. F. Cole. 1,723,134; Aug. 6.
- Vehicle jack. J. Reidenbaugh. 1,735,205; Dec. 3.
- Vehicle jack. P. Roberts. 1,740,268; Dec. 17.
- Vehicle, Juvenile. A. G. Feldman. 1,701,670; Feb. 12.
- Vehicle, Land and water. N. Stachnyk. 1,700,384; Jan. 29.
- Vehicle, Land, water, and air. R. L. Wright. 1,711,629; May 7.
- Vehicle, Lavage. C. Ellis. 1,700,036; Jan. 22.
- Vehicle lift. L. O. Smith. 1,727,182; Sept. 3.
- Vehicle lift. K. Tokita. 1,712,485; May 14.
- Vehicle light. A. L. Beckett. 1,720,311; July 9.
- Vehicle lock. R. Baronis. 1,711,714; May 7.
- Vehicle lock, Motor-. O. A. Anderson. Re17,489; Nov. 19.
- Vehicle lock, Motor-. D. Conlan. 1,737,043; Nov. 26.
- Vehicle, Manually-controlled. T. B. Keogh. 1,707,618; Apr. 2.
- Vehicle, Mechanically-propelled. W. T. Bell and F. J. Bretherton. 1,741,091; Dec. 24.
- Vehicle, Motor. H. D. Church. 1,704,725; Mar. 12.
- Vehicle, Motor. H. D. Church. 1,710,345; Apr. 23.
- Vehicle, Motor. W. S. Clark. 1,699,877; Jan. 22.
- Vehicle, Motor. L. W. Coppock. 1,709,777; Apr. 16.
- Vehicle, Motor. L. W. Coppock. 1,731,765; Oct. 15.
- Vehicle, Motor. S. I. Fekete and M. H. Toncray. 1,699,783; Jan. 22.
- Vehicle, Motor. J. R. Ferguson. 1,698,052; Jan. 8.
- Vehicle, Motor. A. L. Knapp. 1,704,798; Mar. 12.
- Vehicle, Motor. A. L. Knapp. 1,722,331; July 30.
- Vehicle, Motor. A. L. Knapp. 1,726,183; Aug. 27.
- Vehicle, Motor. E. Langlands and G. W. Toombs. 1,727,721; Sept. 10.
- Vehicle, Motor. H. Ledwinka. 1,704,296; Mar. 5.
- Vehicle, Motor. H. Ledwinka. 1,733,688; Oct. 29.
- Vehicle, Motor. G. L. McCain. 1,704,799; Mar. 12.
- Vehicle, Motor. W. J. McClure and A. F. Klutz. 1,730,282; Oct. 1.
- Vehicle, Motor. A. Moorhouse. 1,701,584; Feb. 12.
- Vehicle, Motor. A. Moorhouse. 1,708,703; Apr. 9.
- Vehicle, Motor. A. Moorhouse. 1,712,457; May 7.



- Vehicle, Motor. A. Moorhouse. 1,712,459; May 7.  
 Vehicle, Motor. A. Moorhouse. 1,727,999; Sept. 10.  
 Vehicle, Motor. A. Moorhouse. 1,734,266; Nov. 5.  
 Vehicle, Motor. A. Moorhouse. 1,736,718; Nov. 19.  
 Vehicle, Motor. W. L. Moreland. 1,704,301; Mar. 5.  
 Vehicle, Motor. V. Nićin. 1,698,482; Jan. 8.  
 Vehicle, Motor. J. R. Oishei. 1,719,444; July 2.  
 Vehicle, Motor. L. Oldfield and C. R. Rowison. 1,706,983; Mar. 26.  
 Vehicle, Motor. L. H. Reed. 1,701,542; Feb. 12.  
 Vehicle, Motor. N. Straussler. 1,735,984; Nov. 19.  
 Vehicle, Motor. C. H. Vincent. 1,708,710; Apr. 9.  
 Vehicle, Motor. J. G. Vincent. 1,712,462; May 7.  
 Vehicle, Multiwheel road. R. B. Fageol. 1,739,450; Dec. 10.  
 Vehicle-operated lift. M. Ehrlicke. 1,723,686; Aug. 6.  
 Vehicle or automobile brake, Resistant. S. Powers. 1,706,899; Mar. 26.  
 Vehicle, Power-driven. F. Porsche. 1,724,310; Aug. 13.  
 Vehicle propeller for endless conveyers. A. F. Hawkins. 1,740,014; Dec. 17.  
 Vehicle, Rail. F. Tittelbach. 1,703,462; Feb. 26.  
 Vehicle, Refuse. C. E. Le Page. 1,721,400; July 16.  
 Vehicle register, Motor-. M. Smithey. 1,711,700; May 7.  
 Vehicle running on rails. J. Buchli. 1,723,720; Aug. 6.  
 Vehicle, Scooter. E. S. Van de Mark. 1,706,048; Mar. 19.  
 Vehicle screen. D. L. Harris. 1,730,204; Oct. 1.  
 Vehicle screen. G. S. Yerby and J. F. Hewitt. 1,736,688; Nov. 19.  
 Vehicle seat. J. S. Knaur and J. W. Thompson. 1,701,044; Feb. 5.  
 Vehicle seat. A. H. Leipert. 1,720,485; July 9.  
 Vehicle seat. R. R. Savage. 1,729,687; Oct. 1.  
 Vehicle seat. C. M. Van Aukun. 1,724,535; Aug. 13.  
 Vehicle seat. H. L. Van Valkenburg and S. Miller. 1,735,518; Nov. 12.  
 Vehicle seat, Adjustable motor-. H. D. Kleinschmidt. 1,742,037; Dec. 31.  
 Vehicle seat, Motor-. G. Minelli. 1,701,417; Feb. 5.  
 Vehicle, Self-propelled. C. B. Gardner, jr. 1,731,303; Oct. 15.  
 Vehicle, Self-propelled. W. J. Pugh. 1,707,925; Apr. 2.  
 Vehicle, Self-propelled. H. A. Stilson. 1,714,283; May 21.  
 Vehicle, Side-dump. W. E. Sherwood. 1,702,092; Feb. 12.  
 Vehicle signal. W. M. Bliss. 1,702,859; Feb. 19.  
 Vehicle signal. L. del Pilar. 1,735,895; Nov. 19.  
 Vehicle signal. E. C. Keddy. 1,712,887; May 14.  
 Vehicle signal. F. K. Kreutzmann. 1,723,045; Aug. 6.  
 Vehicle signal. J. E. Lutton. 1,718,162; June 18.  
 Vehicle signal. F. Schultz. 1,715,869; June 4.  
 Vehicle signal, Motor-. J. L. Cassell. 1,723,407; Aug. 6.  
 Vehicle signal, Motor-. C. D. Ryder. 1,706,986; Mar. 26.  
 Vehicle spring. W. N. Angelus. 1,714,067; May 21.  
 Vehicle spring. G. H. Beaumont and J. C. Monteich. 1,733,365; Oct. 29.  
 Vehicle spring. H. S. Chapin. 1,739,386; Dec. 10.  
 Vehicle, Spring. R. B. Fageol. 1,727,753; Sept. 10.  
 Vehicle spring. T. A. Hoover. 1,715,084; May 28.  
 Vehicle spring. D. H. Johannesen. 1,702,008; Feb. 12.  
 Vehicle spring. W. H. Wallace. 1,730,700; Oct. 8.  
 Vehicle spring and snubber, Combination. S. B. Rayzor. 1,739,917; Dec. 17.  
 Vehicle spring arrangement. S. S. Shears. 1,711,813; May 7.  
 Vehicle spring controller. R. P. Lansing. 1,699,701-3; Jan. 22.  
 Vehicle spring-controlling device. W. H. Schmitt. 1,723,445; Aug. 6.  
 Vehicle spring mechanism. H. A. Nicholson. 1,710,236; Apr. 23.  
 Vehicle spring protection. V. Tauffenbach, née Waller, and C. Greiner. 1,737,207; Nov. 26.  
 Vehicle structure. W. H. Douglas and R. Chilton. 1,697,386; Jan. 1.  
 Vehicle suspension. A. Agramonte. 1,712,063; May 7.  
 Vehicle suspension. C. A. Hawkins. 1,721,732; July 23.  
 Vehicle suspension device. T. J. Fay. 1,700,566; Jan. 29.  
 Vehicle suspension device. E. J. Pilblad. 1,723,252; Aug. 6.  
 Vehicle, Tank. A. A. Kramer. 1,727,207; Sept. 3.  
 Vehicle, Taximeter. A. Weiss. 1,728,648; Sept. 17.  
 Vehicle, Tipping. S. E. Alley and A. C. Hutt. 1,730,962; Oct. 8.  
 Vehicle top, Self-raising. L. Evans. 1,697,172-3; Jan. 1.  
 Vehicle, Tracklaying. H. A. Knox and B. F. Baker. 1,705,980; Mar. 19.  
 Vehicle trailers, Coupling arrangement for. L. Isachsen. 1,730,077; Oct. 1.  
 Vehicle, Transport. V. A. A. Vernon. 1,742,154; Dec. 31.  
 Vehicle, Vending and serve-self store. F. J. Bowen, jr., and J. G. Bowen. 1,720,260; July 9.  
 Vehicle ventilator. W. S. Hamm. 1,708,134; Apr. 9.  
 Vehicle ventilator. M. S. Townsend. 1,712,180; May 7.  
 Vehicle wheel. F. W. Baker. 1,698,423; Jan. 8.  
 Vehicle wheel. W. N. Booth. 1,698,082; Jan. 8.  
 Vehicle wheel. W. N. Booth. 1,702,377; Feb. 19.  
 Vehicle wheel. D. Collins. 1,726,385; Aug. 27.  
 Vehicle wheel. G. D'Scott. 1,728,139; Sept. 10.  
 Vehicle wheel. J. H. Johnson. 1,704,613; Mar. 5.  
 Vehicle wheel. G. H. Keyes. 1,709,435; Apr. 16.  
 Vehicle wheel. E. Lapolice. 1,707,060; Mar. 26.  
 Vehicle wheel. E. H. Lawrence. 1,733,308; Oct. 29.  
 Vehicle wheel. A. Meldrum. 1,718,169; June 18.  
 Vehicle wheel. A. Meldrum. 1,737,935; Dec. 3.  
 Vehicle wheel. A. Meldrum. 1,742,044; Dec. 31.  
 Vehicle wheel. A. E. Owen and R. W. Downs. 1,722,855; July 30.  
 Vehicle wheel. J. Poissant de Cloud. 1,736,130; Nov. 19.  
 Vehicle wheel. J. W. Vanderveer. 1,709,696; Apr. 16.  
 Vehicle wheel. J. H. Wagenhorst. 1,697,440; Jan. 1.  
 Vehicle wheel. J. H. Wagenhorst. 1,739,878; Dec. 17.  
 Vehicle wheel, Auxiliary or emergency. P. H. Bachrach. 1,712,322; May 7.  
 Vehicle wheel, Cushion. H. W. Robbins. 1,697,735; Jan. 1.  
 Vehicle wheel, Pneumatic-treaded. A. L. Putnam. 1,714,622; May 28.  
 Vehicle wheel, Resilient. F. P. Connors. 1,715,900; June 4.  
 Vehicle wheel rims, Forming. W. N. Booth. 1,698,083; Jan. 8.  
 Vehicle with tubular underframe, Motor. O. Windberger. 1,704,451; Mar. 5.  
 Vehicles, Apparatus for preventing unauthorized use of motor. J. Fehling. 1,724,918; Aug. 20.  
 Vehicles, Attachment for motor. J. C. Thomas. 1,721,235; July 16.  
 Vehicles, Automatic dumping body for motor. E. F. Walsh and W. E. Foust. 1,712,534; May 14.  
 Vehicles, Automatic dumping body for motor. E. F. Walsh and W. E. Foust. 1,735,065-6; Nov. 12.  
 Vehicles, Body construction for. A. S. Campbell. 1,706,106; Mar. 19.  
 Vehicles, Body for motor. T. H. Poynton. 1,699,918; Jan. 22.  
 Vehicles, Body suspension for motor. J. M. Thorp. 1,727,737; Sept. 10.  
 Vehicles, Combined traction wheel and power take-off device for motor. F. L. Fellers. 1,731,529; Oct. 15.  
 Vehicles, Device for preventing retrograde movement of. A. B. Small. 1,728,809; Sept. 17.  
 Vehicles, Driving mechanism for six-wheel. A. F. Masury. 1,741,425; Dec. 31.  
 Vehicles, Dual controlling device for motor. W. Davis. 1,707,299; Apr. 2.  
 Vehicles, for suspension. C. M. Swingle. 1,738,852; Dec. 10.  
 Vehicles, Glare shield for. W. Stark. 1,698,246; Jan. 8.  
 Vehicles, Lighting plant for. R. Frey. 1,724,757; Aug. 13.  
 Vehicles, machines, and the like, Control apparatus for. A. Kirner. 1,703,491; Feb. 26.  
 Vehicles, Mudguard for. G. Brandau. 1,742,156; Dec. 31.  
 Vehicles, Rebound check for. C. S. Burton. 1,699,684; Jan. 22.  
 Vehicles, Seating arrangement for motor. L. R. Lanning. 1,716,316; June 4.  
 Vehicles, Shielding device for. S. M. Beatty. 1,698,871; Jan. 15.  
 Vehicles, Shock-absorbing mechanism for. H. J. Lounsbury. 1,730,223; Oct. 1.  
 Vehicles, Side dump. F. M. Reid. 1,724,364; Aug. 13.  
 Vehicles, Sliding-current collector for electric. J. F. de Tóváros. 1,727,274; Sept. 3.  
 Vehicles, Snow runner for. E. Brye. 1,733,774; Oct. 29.  
 Vehicles, Spring suspension device for. E. J. Pilblad. 1,723,251; Aug. 6.  
 Vehicles, Spring suspension for. R. M. Neff. 1,714,101; May 21.  
 Vehicles, Spring suspension for. N. L. Olson. 1,725,015; Aug. 20.  
 Vehicles, Springing system for motor road. W. A. Moir. 1,726,189; Aug. 27.  
 Vehicles, Stake pocket and stake for. T. D. Kennedy. 1,707,730; Apr. 2.  
 Vehicles, Torquing arrangement for tandem-axle. R. B. Fageol. 1,739,355; Dec. 10.  
 Vehicles, Wheel-suspension means for motor. G. Fornaca. 1,726,615; Sept. 3.  
 Vehicular life and property safety device. F. M. McDonald. 1,720,660; July 16.  
 Velocipede. N. H. Davis. 1,713,999; May 21.  
 Velocipede. F. A. Lundahl. 1,723,553; Aug. 6.  
 Velocipede. G. N. Wolfe. 1,727,262; Sept. 3.  
 Vender, Unit. L. H. Morin. 1,732,853; Oct. 22.  
 Vending and amusement machine, Combined. M. Wolin and N. F. Ribsam. 1,734,102; Nov. 5.  
 Vending and change-making machine, Selective. A. Forney. 1,721,441; July 16.  
 Vending and display rack. B. C. Overton. 1,741,732; Dec. 31.  
 Vending apparatus. J. H. Clark. 1,726,525; Sept. 3.  
 Vending apparatus. W. C. Cutler. 1,697,306; Jan. 1.  
 Vending apparatus. B. G. Jonas and F. C. Morrow. 1,712,886; May 14.  
 Vending apparatus, Automatic. E. J. Baker. 1,700,277; Jan. 29.  
 Vending booth. R. McCoy. Des. 78,773; June 18.  
 Vending card for bead strings. H. Cohn. Des. 79,131; Aug. 6.  
 Vending case. G. H. Daugherty. 1,716,032; June 4.  
 Vending cold cream and the like. R. W. Atkinson. 1,724,165; Aug. 13.  
 Vending device. L. M. Redlinger. 1,711,654; May 7.  
 Vending machine. E. J. Augustin and C. E. Gronlund. 1,700,873; Feb. 5.  
 Vending machine. M. Bohlig. 1,701,320; Feb. 5.  
 Vending machine. C. A. Butler. 1,713,466; May 14.  
 Vending machine. D. Cameron. 1,720,588; July 9.  
 Vending machine. C. K. Cherry. 1,737,784; Dec. 3.



- Vending machine. J. B. and S. F. Coffey. 1,722,838; July 30.
- Vending machine. S. M. Coffman. 1,711,773; May 7.
- Vending machine. W. T. Cole. 1,708,441; Apr. 9.
- Vending machine. L. J. Disser, sr. 1,710,209; Apr. 23.
- Vending machine. W. H. Gilbert. 1,705,859; Mar. 19.
- Vending machine. H. Gilles. 1,721,150; July 16.
- Vending machine. G. P. Grant. 1,699,353; Jan. 15.
- Vending machine. C. Gray. 1,703,996; Mar. 5.
- Vending machine. A. D. Harvey. 1,708,621; Apr. 9.
- Vending machine. P. R. Hoopes and F. Hess. 1,707,722; Apr. 2.
- Vending machine. R. B. Keehnell. 1,739,238; Dec. 10.
- Vending machine. J. F. Krema. 1,711,685; May 7.
- Vending machine. S. Lando. 1,724,765; Aug. 13.
- Vending machine. H. K. Lorentzen. 1,711,271; Apr. 30.
- Vending machine. D. R. MacGregor. 1,724,297; Aug. 13.
- Vending machine. L. C. Manning. 1,705,259; Mar. 12.
- Vending machine. F. M. McClure. 1,700,374; Jan. 29.
- Vending machine. L. H. Morin. 1,697,510; Jan. 1.
- Vending machine. L. H. Morin. 1,699,476; Jan. 15.
- Vending machine. L. H. Morin. 1,722,230; July 23.
- Vending machine. L. H. Morin. 1,723,948; Aug. 6.
- Vending machine. L. H. Morin. 1,728,901; Sept. 17.
- Vending machine. L. H. Morin. 1,739,982; Dec. 17.
- Vending machine. G. W. Nelson. 1,708,234; Apr. 9.
- Vending machine. H. H. Peterson. 1,722,942; July 30.
- Vending machine. M. H. Richardson and A. E. Gebert. 1,709,192; Apr. 16.
- Vending machine. O. C. Rogers. 1,706,324; Mar. 19.
- Vending machine. W. H. Rower. 1,714,631; May 28.
- Vending machine. J. B. Ryan. 1,726,924; Sept. 3.
- Vending machine. L. W. Sargent. 1,738,616; Dec. 10.
- Vending machine. C. J. Smethers and E. D. Ellison. 1,709,495; Apr. 16.
- Vending machine. F. M. Smith. 1,732,422; Oct. 22.
- Vending machine. A. R. Visitacion. 1,739,810; Dec. 17.
- Vending machine. G. Weiss. 1,702,714; Feb. 19.
- Vending machine. H. C. Williamson. 1,720,505; July 9.
- Vending machine. N. R. Wisbam. 1,697,378; Jan. 1.
- Vending machine and game, Combined. F. L. Mills. 1,700,541; Jan. 29.
- Vending machine and the like, Coin-freed. W. V. Rose and C. R. Gibbs. 1,713,626; May 21.
- Vending machine, Automatic selective. O. W. Timm. 1,739,186; Dec. 10.
- Vending-machine casing. B. G. Larrabee, H. A. Root, and E. S. Cassaday. Des. 78,213; Apr. 9.
- Vending machine, Cigarette-. H. C. Rockhoff. 1,731,544; Oct. 15.
- Vending machine, Coin-actuated insurance-policy-. C. W. Cole. 1,726,541; Sept. 3.
- Vending machine, Coin-controlled. J. Brandt. 1,697,161; Jan. 1.
- Vending machine, Coin-controlled. D. T. Clark. 1,702,154; Feb. 12.
- Vending machine, Coin-controlled. D. C. Culbreath. 1,706,857; Mar. 26.
- Vending machine, Coin-controlled. F. C. Roberts. 1,741,000; Dec. 24.
- Vending machine, Coin-controlled. E. F. White. 1,717,593; June 18.
- Vending machine, Coin-controlled. G. B. Smith. 1,718,495; June 25.
- Vending machine, Coin-controlled. G. B. Smith. 1,732,990; Oct. 22.
- Vending machine, Coin-controlled automatic liquid-. M. Wolnik. 1,729,317; Sept. 24.
- Vending machine, Coin-detecting. J. H. Mann, jr. 1,704,732; Mar. 12.
- Vending machine, Coin-operated. C. F. Kurtz. 1,732,272; Oct. 22.
- Vending machine, Coin-operated. C. F. Kurtz. 1,732,307; Oct. 22.
- Vending machine, Coin-operated. E. E. Seidel. 1,731,829; Oct. 15.
- Vending machine, Comb-. S. Goldheir. 1,734,724; Nov. 5.
- Vending machine for book matches. W. E. Williams. 1,710,394; Apr. 23.
- Vending machine for Frankfurter sandwiches. A. Flamm. 1,716,266; June 4.
- Vending machine for stationery. J. H. McCutchen. 1,698,644; Jan. 8.
- Vending machine, Fruit-. N. H. Massie. 1,705,936; Mar. 19.
- Vending machine, Fruit-. N. H. Massie. 1,729,886; Oct. 1.
- Vending machine, Gasoline-. H. M. Wagner. 1,700,753; Feb. 5.
- Vending machine, Ice-. G. L. Bennett. 1,706,475; Mar. 26.
- Vending machine, Ink-. G. T. and M. Burke. 1,697,849; Jan. 8.
- Vending machine, Liquid-. F. L. du Pont. 1,701,609; Feb. 12.
- Vending machine, Newspaper-. S. S. Lieberman. 1,707,986; Apr. 9.
- Vending machine, Newspaper-. J. A. Urbanek. 1,735,819; Nov. 12.
- Vending machine, Package-. S. P. Nemeth. 1,741,728; Dec. 31.
- Vending-machine package. F. J. Rowse. 1,700,809; Feb. 5.
- Vending machine, Paper-. M. T. Ashe. 1,702,925; Feb. 19.
- Vending machine, Paper-. F. Carrier. 1,723,541; Aug. 6.
- Vending machine, Pencil-. S. D. Lowry. 1,742,039; Dec. 31.
- Vending machine, Pencil-lead-. C. E. Smelser. 1,707,029; Mar. 26.
- Vending machine, Sanitary towel-service. T. J. Jones. 1,741,572; Dec. 31.
- Vending machines, Coin-controlled mechanism for. W. H. Averill. 1,734,191; Nov. 5.
- Vending machines, Securing means for. L. H. Morin. 1,718,249; June 25.
- Vending mechanism, Coin-controlled. R. H. Baker. 1,722,189; July 23.
- Vending merchandise, Apparatus for. E. W. Trapp. Re17,178; Jan. 1.
- Vending stand. A. Soucie. Des. 78,662; May 28.
- Vending station, Combined food and beverage. J. H. Niquette and E. G. Sanders. Des. 78,404; Apr. 30.
- Veneer box and manufacturing the same. E. von Maltitz. 1,723,452; Aug. 6.
- Veneer box and panel for making the same. A. Elmendorf. 1,708,669; Apr. 9.
- Veneer for building walls. A. D. Cochran. 1,704,035; Mar. 5.
- Veneer machine. C. A. Kessler. 1,705,189; Mar. 12.
- Veneered blocks, Manufacture of. C. Payne. 1,709,035; Apr. 16.
- Veneering. A. Elmendorf. 1,714,859; May 28.
- Veneering boardlike material. A. Elmendorf. 1,714,858; May 28.
- Vent device. J. A. Jensen. 1,724,878; Aug. 13.
- Vent for breather roofs, Automatic. C. L. Day. 1,716,950; June 11.
- Ventilating and draining union for electric-circuit-wire conduits, Combined. G. A. Johnson. 1,710,313; Apr. 23.
- Ventilating and flushing apparatus for water-closets. C. J. Majauskas. 1,734,498; Nov. 5.
- Ventilating and heating attachment for stoves. P. K. McMinn. 1,700,414; Jan. 29.
- Ventilating and refrigerating apparatus. C. A. Moore. 1,741,580; Dec. 31.
- Ventilating apparatus. W. F. Hillpot. 1,722,215; July 23.
- Ventilating apparatus. C. H. Smith. 1,734,449; Nov. 5.
- Ventilating apparatus, Mine-. W. N. Perryman. 1,727,669; Sept. 10.
- Ventilating arrangement for vehicles. W. Klimbel. 1,706,694; Mar. 26.
- Ventilating attachment for water-closets. K. S. Blanchard. 1,706,021; Mar. 19.
- Ventilating device. W. Mackey. 1,724,801; Aug. 13.
- Ventilating device. L. J. O'Connor. 1,728,768; Sept. 17.
- Ventilating device, Automobile. J. H. Roethel. 1,722,824; July 30.
- Ventilating eaves. J. F. Levan. 1,700,501; Jan. 29.
- Ventilating means for houses. C. J. Kurtz. 1,717,788; June 18.
- Ventilating means for motor vehicles. V. J. Hall. 1,727,824; Sept. 10.
- Ventilating means for vehicle bodies. W. D. Crowell. 1,741,502; Dec. 31.
- Ventilating mechanism, Door-. C. E. Weaver. 1,705,321; Mar. 12.
- Ventilating screen. J. Harris. 1,741,986; Dec. 31.
- Ventilating system. F. T. Hague. 1,728,564; Sept. 17.
- Ventilating system. G. Hilger. 1,705,765; Mar. 19.
- Ventilating system. W. Keiser. 1,714,562; May 28.
- Ventilating system. W. E. Watt. 1,732,959; Oct. 22.
- Ventilating system, Car-. J. W. Bernbaum and W. Wright. 1,739,777; Dec. 17.
- Ventilating system, Crank-case-. L. B. Ellis. 1,734,007; Oct. 29.
- Ventilating system for ovens. H. P. McCann. 1,717,115; June 11.
- Ventilating system for refrigerator cars. C. A. Moore. 1,712,710; May 14.
- Ventilating system for stock buildings. A. Zacharias. 1,725,971; Aug. 27.
- Ventilating system for tunnels. L. Kessler. 1,728,493; Sept. 17.
- Ventilating system, Mine-. L. Kessler. 1,735,927; Nov. 19.
- Ventilating thimble, Stovepipe. O. W. Gorenflo. 1,730,421; Oct. 8.
- Ventilation, Art of and apparatus for. R. S. Blair. 1,731,289; Oct. 15.
- Ventilation, Crank-case. W. S. Cochrane. 1,713,262; May 14.
- Ventilator: See—
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|-------------------------|---------------------------------|
| Auto body ventilator.   | Grain ventilator.               |
| Automatic ventilator.   | Radiator ventilator.            |
| Automobile ventilator.  | Ridge-roll ventilator.          |
| Cab-ventilator.         | Vehicle ventilator.             |
| Chimney ventilator.     | Visionless ventilator.          |
| Closet-bowl ventilator. | Washing and cooling ventilator. |
| Crank-case ventilator.  |                                 |
| Exhaust ventilator.     | Window ventilator.              |
| Floor ventilator.       |                                 |
- Ventilator. E. L. Ackerman. 1,723,995; Aug. 13.
- Ventilator. S. U. Barr. 1,734,759; Nov. 5.
- Ventilator. S. U. Caron. 1,729,760; Oct. 1.
- Ventilator. J. M. Davie and G. A. Mytinger. 1,730,193; Oct. 1.
- Ventilator. E. W. Frendahl. 1,716,223; June 4.
- Ventilator. A. Gerlach. 1,697,389; Jan. 1.
- Ventilator. W. S. Hamm. 1,708,133; Apr. 9.
- Ventilator. W. Havens. 1,713,870; May 21.
- Ventilator. Y. Hayakawa. 1,742,034; Dec. 31.
- Ventilator. R. Hoffman. 1,702,117; Feb. 12.
- Ventilator. J. R. Howard. 1,735,760; Nov. 12.



- Ventilator. E. Kausch. 1,740,817; Dec. 24.  
 Ventilator. H. Knutson. 1,728,494; Sept. 17.  
 Ventilator. A. R. Laubenstein. 1,708,841; Apr. 9.  
 Ventilator. J. Linz. 1,704,571; Mar. 5.  
 Ventilator. J. W. Meixell. 1,701,385; Feb. 5.  
 Ventilator. D. O'Connor. 1,698,062; Jan. 8.  
 Ventilator. F. J. Rennett. 1,704,578; Mar. 5.  
 Ventilator. A. U. Riker. 1,722,059; July 23.  
 Ventilator. E. A. Rosell. 1,705,418; Mar. 12.  
 Ventilator. L. J. Sheperd. 1,717,268; June 11.  
 Ventilator. L. and B. L. Simmons. 1,739,082; Dec. 10.  
 Ventilator. J. Snyder. 1,700,912; Feb. 5.  
 Ventilator. V. A. Trier. 1,728,777; Sept. 17.  
 Ventilator. C. E. Weaver. 1,732,870; Oct. 22.  
 Ventilator. J. S. White. 1,707,888; Apr. 2.  
 Ventilator. C. M. Wills. 1,703,437; Feb. 26.  
 Ventilator. C. M. Wills. 1,709,295; Apr. 16.  
 Ventilator and electric-light support, Combined ceiling. L. Simmons. 1,732,171; Oct. 15.  
 Ventilator and temperature equalizer. M. W. Jones. 1,732,938; Oct. 22.  
 Ventilator canopy. R. E. Peck. 1,720,400; July 9.  
 Ventilator device. H. Paine and J. J. Readle. 1,740,954; Dec. 24.  
 Ventilator for automobile windows. W. M. Johnson. 1,726,072; Aug. 27.  
 Ventilator for automobiles. H. Holden. 1,723,782; Aug. 6.  
 Ventilator for automobiles, Window. A. Mattson. 1,702,216; Feb. 12.  
 Ventilator for buildings. A. Gerlach. 1,718,226; June 25.  
 Ventilator for closed automobile bodies, Roof. J. H. Roethel. 1,722,825; July 30.  
 Ventilator for closed automobiles. H. C. Segelken. 1,718,083; June 18.  
 Ventilator for corncribs and the like. J. M. Whitcomb. 1,723,101; Aug. 6.  
 Ventilator for motion-picture machines. W. C. Readeker. 1,699,078; Jan. 15.  
 Ventilator mounting for flexible bodies. Cowl. B. W. Twyman. 1,710,905; Apr. 30.  
 Ventilator for oil tanks, Safety. F. Bernard. 1,731,406; Oct. 15.  
 Ventilator for railway and other vehicles. A. A. Mead. 1,727,931; Sept. 10.  
 Ventilator opener. J. L. Nielsen. 1,696,922; Jan. 1.  
 Ventilator system, Magnetic. S. M. Code. 1,715,409; June 4.  
 Venting and sealing cans. W. G. Allen. 1,730,961; Oct. 8.  
 Vermin killer. F. Flury. 1,712,917; May 14.  
 Vermin trap. L. A. Sauer. 1,713,557; May 21.  
 Vernier adjustment. J. A. Dienner and A. C. Mabee. 1,713,522; May 21.  
 Vernier drive. E. Ross. 1,713,194; May 14.  
 Vessel. J. Nacey. 1,706,035; Mar. 19.  
 Vessel for heating purposes. T. Bader. 1,715,444; June 4.  
 Vessel, Nursery chamber. M. M. Costigan. 1,737,572; Dec. 3.  
 Vessel, Pouring. F. A. Dugan. 1,707,799; Apr. 2.  
 Vessel, Pouring. G. Herburger, sr. 1,708,416; Apr. 9.  
 Vessel, Speed. J. M. Farrell. 1,710,869; Apr. 30.  
 Vessels, Construction for. G. E. Stevens. 1,725,680; Aug. 20.  
 Vessels, Making glass. F. Meyer. 1,699,305; Jan. 15.  
 Vestibule diaphragm, Railway-car. J. F. O'Connor. 1,706,462; Mar. 26.  
 Vestibule for articulated cars. W. Griffin. 1,727,642; Sept. 10.  
 Veterinary appliance. A. Schäfer. 1,714,635; May 28.  
 Vibrating apparatus and its utilization for removing pat terns and castings from sand molds. C. B. Pike. 1,704,100; Mar. 5.  
 Vibrating device. R. G. Richardson. 1,726,192; Aug. 27.  
 Vibrating doffer combs, Apparatus for. H. O. Dyess. 1,723,335; Aug. 6.  
 Vibrating means and method, Container-. E. W. Schellen-trager. 1,705,502; Mar. 19.  
 Vibrating mechanism. V. E. Flanagan. 1,712,817; May 14.  
 Vibrating motor. J. M. High, jr. 1,718,044; June 18.  
 Vibrating ramming machine, Mechanical. C. E. G. L. Jarrett-Knott. 1,708,839; Apr. 9.  
 Vibrating roller. L. Halpern. 1,726,559; Sept. 3.  
 Vibrating screen. J. Crabb, sr. 1,724,007; Aug. 13.  
 Vibrating screen. E. Deister. 1,717,498; June 18.  
 Vibrating screen. M. A. Kendall. 1,705,619; Mar. 19.  
 Vibrating screen. G. A. Overstrom. 1,713,143; May 14.  
 Vibrating screen. H. S. Woodward. 1,700,868; Feb. 5.  
 Vibration absorber. A. M. Thomson. 1,707,032; Mar. 26.  
 Vibration and sag-resistant filament. J. H. Ramage. 1,720,000; July 9.  
 Vibration dampener, Torsional. E. Risley. 1,716,284; June 4.  
 Vibration-damping mechanism. H. Walker. 1,701,519; Feb. 12.  
 Vibration device. A. A. Clokey. 1,717,094; June 11.  
 Vibration device. E. H. Smythe and C. E. Lane. 1,738,327; Dec. 3.  
 Vibration indicator. A. L. Kimball, jr., and E. H. Hull. 1,727,991; Sept. 10.  
 Vibration indicator. W. E. Trumpler. 1,702,455; Feb. 19.  
 Vibration meter. W. E. Trumpler. 1,702,456; Feb. 19.  
 Vibration-reducing means. G. C. Goode. 1,700,477; Jan. 29.  
 Vibrations caused by road traffic, Preventing or reducing the transmission to buildings of. P. F. Shergold. 1,728,736; Sept. 17.  
 Vibrations, Tactual interpretation of. W. C. Jones. 1,733,605; Oct. 29.  
 Vibrator. T. H. Fisher. 1,717,501; June 18.  
 Vibrator. S. E. Fouts. 1,709,122; Apr. 16.  
 Vibrator, Acoustic. R. T. Watts and J. J. Carr. 1,729,233; Sept. 24.  
 Vibrator for ore screens. A. L. LaMont. 1,741,528; Dec. 31.  
 Vibrator for sound-reproducing apparatus. G. W. Lyons. Des. 77,847; Feb. 26.  
 Vibrator mechanism in typewriters, Ink-ribbon. P. Kämp-ler. 1,724,485; Aug. 13.  
 Vibrator structure. P. Granger. 1,698,330; Jan. 8.  
 Vibrator table. G. B. Pickop. 1,734,020; Oct. 29.  
 Vibratory air column, Apparatus for setting up a. F. C. Wappler. 1,698,419; Jan. 8.  
 Vibratory apparatus, Actuating mechanism for. W. Sel-ner. 1,726,630; Sept. 3.  
 Vibratory-diaphragm controller. M. I. Williamson. 1,713,581; May 21.  
 Vibratory health apparatus. H. E. Riley. 1,730,687; Oct. 8.  
 Vibratory regulator. H. L. Hartzell. 1,724,197; Aug. 13.  
 Vibratory screen. C. K. Baldwin and S. D. Robins. 1,721,802; July 23.  
 Vibratory screen. A. L. Munro. 1,730,435; Oct. 8.  
 Vibratory systems, Method of and apparatus for con-trolling. J. W. Legg. 1,736,500; Nov. 19.  
 Vibratory unit. W. D. Pack. 1,735,874-5; Nov. 19.  
 View analyzer. A. F. Shore. 1,701,698; Feb. 12.  
 Vine cutter. A. A. Bull. 1,734,794; Nov. 5.  
 Vine-trimming machine. A. Bianchi. 1,731,607; Oct. 15.  
 Vinegar making, Apparatus for. E. W. Lossing. 1,722,382; July 30.  
 Violet rays to aid the process of combustion in combus-tion motors, etc., Using ultra-. F. Weckerle. 1,727,919; Sept. 10.  
 Violin. B. R. Nyhagen. 1,704,711; Mar. 12.  
 Violin. H. V. Rockwell. 1,713,005; May 14.  
 Violin. L. Yuki. 1,700,395; Jan. 29.  
 Violin bridge. B. Hennessy. 1,699,469; Jan. 15.  
 Violin bridge. G. T. Schröder. 1,737,338; Nov. 26.  
 Violin-guitar. F. A. Porter and F. Schmidt. 1,726,311; Aug. 27.  
 Violin, mute. G. Longiaru. 1,721,826; July 23.  
 Violin, Self-playing. C. P. Corwin. 1,724,057; Dec. 31.  
 Violin tuner. I. Martyn. 1,726,849; Sept. 3.  
 Viols and like instruments, Device for improving the sound effect of. P. and A. Moussong. 1,704,708; Mar. 12.  
 Viols, Attachment for. G. W. Hey. 1,711,386; Apr. 30.  
 Viols, Attachment for. G. R. Petit. 1,739,416; Dec. 10.  
 Viscometer. C. D. Miller. 1,727,836; Sept. 10.  
 Viscous substances, Device and method for conveying. C. P. Brasington. 1,710,144; Apr. 23.  
 Vise. F. Brink. 1,720,464; July 9.  
 Vise. C. C. Jensen. 1,730,510; Oct. 8.  
 Vise and gripping tool, Combination. A. A. Benedict. 1,733,773; Oct. 29.  
 Vise, Portable. C. H. Cothran. 1,702,815; Feb. 19.  
 Vise, Rigger's. C. A. Lind. 1,731,468; Oct. 15.  
 Vises, Attachment for metal. W. A. McLean. 1,718,864; June 25.  
 Vismeter, Football. G. Auer, jr. 1,706,646; Mar. 26.  
 Vision apparatus. Supplemental. W. S. Wagstaff. 1,700,754; Feb. 5.  
 Vision attachment, Automobile. L. C. Williams. 1,717,536; June 18.  
 Visionless ventilator. C. M. Wills. 1,701,992-3; Feb. 12.  
 Visor. J. Boca. 1,697,808; Jan. 1.  
 Visor. A. R. Simon. 1,724,433; Aug. 13.  
 Visor, Adjustable. O. L. Hendrikson. 1,704,894; Mar. 12.  
 Visor attachment for headlights. C. R. Polen. 1,708,776; Apr. 9.  
 Visor, Automobile. G. A. Clark. 1,705,960; Mar. 19.  
 Visor, Automobile. F. W. Pearce. 1,735,177; Nov. 12.  
 Visor cap, Airplane. W. Gallup. Des. 78,349; Apr. 23.  
 Visor, Foldable sun. M. H. Davis. 1,732,357; Oct. 22.  
 Visor light. B. F. Raidt. 1,707,874; Apr. 2.  
 Visor or sun shield, Glare. G. H. Pearce. 1,734,096; Nov. 5.  
 Visor structure for automobiles. A. B. Tompkins. 1,708,161; Apr. 9.  
 Visual signal. J. L. Chantemerle. 1,715,278; May 28.  
 Vitamine preparations, Producing. A. W. Owe. 1,715,945; June 4.  
 Vitreous composition. F. Skaupy, H. Nachod, and G. Guidies. 1,708,743; Apr. 9.  
 Vitrifed material, Preparing. P. M. Cochius. 1,724,747; Aug. 13.  
 Voice device. A. Konoff. 1,711,117; Apr. 30.  
 Voice-frequency calling system. H. S. Black. 1,709,554; Apr. 16.  
 Voile fabric, Flocked. K. G. Currier and J. Heinrich. Des. 78,011; Mar. 19.  
 Voile fabric, Flocked. K. G. Currier and J. Heinrich. Des. 78,382-4; Apr. 30.  
 Volatile substances, Distillation and vapor phase extrac-tion of. H. Sulda. 1,715,313; May 28.



- Voltage circuit interrupter, High-. E. M. Hewlett. 1,717,210; June 11.
- Voltage-control system. B. Weyl. 1,709,642; Apr. 16.
- Voltage-control system, Variable-. E. M. Bouton. and C. P. Walker. 1,732,712; Oct. 22.
- Voltage-limiting arrangement for intermediate-circuit transmitters. O. Böhm. 1,738,684; Dec. 10.
- Voltage-limiting device. A. A. Oswald. 1,705,993; Mar. 19.
- Voltage, Regulating. M. L. Sindeband and P. Sporn. 1,717,418; June 18.
- Voltage-regulating system. A. R. Stevenson, jr. 1,723,090; Aug. 6.
- Voltage regulator. C. A. Borland and A. F. Melching. 1,717,831; June 18.
- Voltage regulator. M. Lock. 1,724,846; Aug. 13.
- Voltage regulator, Generator. J. E. Love. 1,714,883; May 28.
- Voltage regulator system. H. Harz. 1,725,137; Aug. 20.
- Voltage regulators, Compensating the forces in. H. Grob. 1,700,041-2; Jan. 22.
- Voltage release, Time-delay low-. L. C. Frank. 1,736,438; Nov. 19.
- Voltages in radio apparatus, Reducing interfering. F. M. Squire. 1,720,453; July 9.
- Voltmeter, Crest. C. Le G. Fortescue. 1,697,177; Jan. 1.
- Volume and price recorder. C. A. Ross. 1,714,731; May 28.
- Volume control of transmission. G. Crisson. 1,737,830; Dec. 3.
- Volume-control system. L. G. Bostwick. 1,737,992; Dec. 3.
- Volume-control system. O. B. Hanson, G. Crisson, and F. W. McKown. 1,715,415; June 4.
- Volume-range-control system. A. B. Clark and G. Crisson. 1,719,047; July 2.
- Votive stand. J. W. Winterich. 1,733,927; Oct. 29.
- Vulcanization of rubber. W. Scott. 1,732,436; Oct. 22.
- Vulcanization of rubber and similar materials and products obtained thereby, Controlling the. S. M. Cadwell. 1,698,713; Jan. 15.
- Vulcanization of rubber and similar materials and products obtained thereby, Controlling the. S. M. Cadwell. 1,698,715; Jan. 15.
- Vulcanization of rubber and similar materials, Controlling the. S. M. Cadwell. 1,698,712; Jan. 15.
- Vulcanization of rubber and similar materials, Controlling the. S. M. Cadwell. 1,698,714; Jan. 15.
- Vulcanizer. H. C. Bostwick. 1,740,065; Dec. 17.
- Vulcanizer. W. S. Galvin. 1,697,460; Jan. 1.
- Vulcanizer. W. M. Post. 1,740,034; Dec. 17.
- Vulcanizer. C. T. Siebs. 1,720,763; July 16.
- Vulcanizer for flaps, etc., Individual. E. Hutchens. 1,698,846; Jan. 15.
- Vulcanizer for inner tubes. C. B. Hudson. 1,718,925; June 25.
- Vulcanizer for rubber soles to uppers. F. Nielsen. 1,718,174; June 18.
- Vulcanizer, Watchcase. A. J. Fleiter and H. C. Bostwick. 1,733,151; Oct. 29.
- Vulcanizing air bags. W. B. Burke. 1,705,083; Mar. 12.
- Vulcanizing apparatus. O. C. Kalbäisch. 1,715,927; June 4.
- Vulcanizing apparatus, Tire-. G. E. Sease. 1,721,094; July 16.
- Vulcanizing bag. A. O. Abbott, jr. 1,721,583; July 23.
- Vulcanizing device. G. Degenring. 1,698,717; Jan. 15.
- Vulcanizing device. H. J. O'Sullivan. 1,718,485; June 25.
- Vulcanizing hollow articles, Method and apparatus for. J. R. Gammeter. 1,714,016; May 21.
- Vulcanizing, inner tubes, Apparatus for. O. J. Kuhlke. 1,707,620; Apr. 2.
- Vulcanizing inner tubes, Apparatus for. O. J. Kuhlke. 1,727,304; Sept. 3.
- Vulcanizing mold. J. F. Allen. 1,727,851; Sept. 10.
- Vulcanizing mold. C. A. Witter. 1,697,703; Jan. 1.
- Vulcanizing rubber. C. O. North and C. W. Christensen. 1,726,713; Sept. 3.
- Vulcanizing rubber and accelerator therefor. D. H. Powers. 1,732,532; Oct. 22.
- Vulcanizing rubber and product therefrom. W. Scott. 1,703,902; Mar. 5.
- Vulcanizing rubber and products obtained thereby. M. L. Weiss. 1,705,948; Mar. 19.
- Vulcanizing rubber and resulting products. H. B. Morse. 1,734,633-40; Nov. 5.
- Vulcanizing rubber articles, Apparatus for. J. R. Gammeter. 1,719,218; July 2.
- Vulcanizing rubber to leather. L. B. Conant. 1,719,101; July 2.
- Vulcanizing tires, Mechanism for. W. B. Burke. 1,700,431; Jan. 29.
- Wading tank. J. H. Phillips. 1,738,017; Dec. 3.
- Waffle iron. J. W. Filbey. 1,708,499; Apr. 9.
- Waffle iron. F. F. Forshee. 1,705,727; Mar. 19.
- Waffle iron. E. F. Meehan. Des. 79,157; Aug. 6.
- Waffle iron. E. Simmons. 1,715,103; May 28.
- Waffle iron. E. R. Talbot. 1,737,620; Dec. 3.
- Waffle iron and cooking apparatus, Combined. J. S. Guest. 1,729,662; Oct. 1.
- Wagon and like tanks, Construction of. C. H. Stevens. 1,715,683; June 4.
- Wagon, Asparagus. C. W. Jarvis. 1,739,463; Dec. 10.
- Wagon box. O. E. Nelson. 1,704,574; Mar. 5.
- Wagon brake, Coaster-. G. O. Johnson. 1,717,384; June 18.
- Wagon, Commercial. R. R. Sutherland. Des. 79,395; Sept. 10.
- Wagon construction. F. A. MacNab. 1,698,642; Jan. 8.
- Wagon, Dump. J. D. Benbow and J. B. Green. 1,706,099; Mar. 19.
- Wagon, Hay. R. S. Parker. 1,730,943; Oct. 8.
- Wagon loader. W. H. Bosworth. 1,730,992; Oct. 8.
- Wagon, Pony. F. H. Divan. Des. 79,459; Sept. 24.
- Wagon, Toy dump. C. C. Blackmore. 1,730,040; Oct. 8.
- Waistband for trousers, Adjustable. W. F. Fretz and H. F. Kline. 1,705,562; Mar. 19.
- Waistband lining and method. A. H. Bricker. 1,697,630; Jan. 1.
- Waiting booth or the like. F. F. Papa. Des. 78,780; June 18.
- Walker. H. L. Evans. 1,727,969; Sept. 10.
- Walker, Baby. J. J. Schneider. 1,704,346; Mar. 5.
- Walker rack, Straw-. A. B. Welty. 1,740,719; Dec. 24.
- Walking device, Child's. F. W. Stoll. 1,729,557; Sept. 24.
- Wall. E. Berliner. 1,740,147-8; Dec. 17.
- Wall and brick therefor, Hollow furnace. O. Nygaard. 1,697,403; Jan. 1.
- Wall and ceiling construction. K. Slidell and G. J. Schultz. 1,727,117; Sept. 3.
- Wall and ceiling construction. C. O. Walper. 1,709,047; Apr. 16.
- Wall and making same. F. M. Curran. 1,711,471; Apr. 30.
- Wall and making same, Extruded tubular. W. M. Fulton. 1,709,011; Apr. 16.
- Wall and making the same, Flexible corrugated tubular. W. M. Fulton. 1,731,130; Oct. 8.
- Wall, Baffle. J. E. Muhlfeld. Re17,449; Oct. 1.
- Wall, Beauty-parlor. D. Oppenheim. Des. 78,222-3; Apr. 9.
- Wall, Beauty-parlor. D. Oppenheim. Des. 78,306-8; Apr. 16.
- Wall, Beauty-parlor. D. Oppenheim. Des. 78,405; Apr. 30.
- Wall, Beauty-parlor. D. Oppenheim. Des. 78,696; June 4.
- Wall board. E. Erola. 1,737,413; Nov. 26.
- Wall board. S. Greenebaum. 1,706,661; Mar. 26.
- Wall board. J. F. Haggerty. 1,702,966; Feb. 19.
- Wall board. G. A. Hoggatt. 1,709,475; Apr. 16.
- Wall board. T. E. Knowlton. 1,701,454; Feb. 5.
- Wall board. E. J. O'Brien. 1,699,118; Jan. 15.
- Wall board. C. Payne. 1,720,856; July 16.
- Wall board. H. C. Raynes. 1,719,726; July 2.
- Wall board. C. O. Walper. 1,727,420; Sept. 10.
- Wall board, Apparatus for making. C. Payne. 1,721,972; July 23.
- Wall-board-handling device. A. S. Blandford. 1,725,329; Aug. 20.
- Wall-board-joint system. E. Green. 1,703,667; Feb. 26.
- Wall board, Making. O. W. Storey. 1,698,351; Jan. 8.
- Wall board, Manufacture of. C. Payne. 1,735,877; Nov. 19.
- Wall board, Method and apparatus for making. C. Payne. 1,720,855; July 16.
- Wall board, Reinforced plaster. C. R. Birdsey. 1,710,915; Apr. 30.
- Wall bracket. J. Block. Des. 78,503; May 14.
- Wall bracket. R. R. Hellvik. Des. 79,426; Sept. 17.
- Wall bracket, Adjustable. A. M. Davis. 1,704,937; Mar. 12.
- Wall bracket, Electric. F. Craib. Des. 77,639; Feb. 5.
- Wall bracket, Electric. O. S. Strom. Des. 77,512; Jan. 15.
- Wall bracket, Lighting-fixture. H. Aglow. Des. 79,411; Sept. 17.
- Wall bracket, Lighting-fixture. W. von Nessen. Des. 79,053-4; July 23.
- Wall bracket, Lighting-fixture. L. Zweig. Des. 79,579; Oct. 8.
- Wall bracket or similar article, Electric. G. Hoch. Des. 79,655; Oct. 22.
- Wall bracket or the like, Lighting-fixture. G. E. McFadden. Des. 79,040; July 23.
- Wall bracket or the like, Lighting-fixture. G. E. McFadden. Des. 79,042; July 23.
- Wall bracket or the like, Lighting-fixture. G. E. McFadden. Des. 79,732; Oct. 29.
- Wall bracket or the like, Lighting-fixture. G. E. McFadden. Des. 79,734; Oct. 29.
- Wall bracket or the like, Lighting-fixture. G. E. McFadden. Des. 79,737-8; Oct. 29.
- Wall bracket or the like, Lighting-fixture. G. E. McFadden. Des. 79,740; Oct. 29.
- Wall bracket or the like, Lighting fixture. G. E. McFadden. Des. 79,891; Nov. 12.
- Wall bracket, Radiator. J. H. Phelan. 1,720,687; July 16.
- Wall, Building. W. L. Bodman. 1,708,462; Apr. 9.
- Wall-building apparatus. M. C. Schweinert. 1,696,925; Jan. 1.
- Wall clip. M. T. Chamberlain. 1,724,394; Aug. 13.
- Wall-closure construction. B. C. Rockwell. 1,706,546; Mar. 26.
- Wall construction. G. L. Bradshaw. 1,740,570; Dec. 24.
- Wall construction. G. E. Dignan. 1,725,900; Aug. 27.
- Wall construction. F. H. Dunbar. 1,707,347; Apr. 2.
- Wall construction. A. B. Foans. 1,697,760; Jan. 1.



- Wall construction. W. F. Giesler. 1,723,930; Aug. 6.  
 Wall construction. G. Goudis. 1,702,964; Feb. 19.  
 Wall construction. F. Lichtenberg and M. M. McCarthy. 1,714,174; May 21.  
 Wall construction. D. Moorsalian. 1,727,662; Sept. 10.  
 Wall construction. G. Strom. 1,713,789; May 21.  
 Wall construction. O. W. Ulrich. 1,725,230; Aug. 20.  
 Wall construction and sections therefor. E. W. Leshner. 1,732,056; Oct. 15.  
 Wall construction, Bulkhead-. C. Weber. 1,739,108; Dec. 10.  
 Wall construction for furnaces, Bridge. J. H. Privott and B. C. Williams. 1,699,018; Jan. 15.  
 Wall covering or similar article of manufacture in sheet form. H. T. Abolin. Des. 80,158; Dec. 24.  
 Wall drier. L. Judelson. 1,731,050; Oct. 8.  
 Wall finish. W. B. Allen. 1,718,936; July 2.  
 Wall fixture. R. A. Zeidler. Des. 80,209; Dec. 24.  
 Wall fixture for electric lights. C. W. Logan. Des. 77,614; Jan. 29.  
 Wall fixture for electric lights. F. Yokel. Des. 78,681; May 28.  
 Wall flashing, Interlocking. P. M. Burgess. 1,703,095; Feb. 26.  
 Wall for embankments, Retaining. H. Mimaki, C. Andow and M. Mutaguchi. 1,702,610; Feb. 19.  
 Wall-mold construction. S. M. Pontiere. 1,725,827; Aug. 27.  
 Wall or the like, Tiled. G. D. Haines. 1,704,537; Mar. 5.  
 Wall panel. E. T. Gray. Des. 80,220-2; Dec. 31.  
 Wall paper. A. C. Dodman, jr. Des. 78,564; May 21.  
 Wall paper. A. C. Dodman, jr. Des. 78,733-4; June 18.  
 Wall paper. A. C. Dodman, jr. Des. 78,969-70; July 16.  
 Wall paper. A. C. Dodman, jr. Des. 79,584; Oct. 15.  
 Wall paper. J. H. Whitwell. Des. 79,541; Oct. 1.  
 Wall-paper machine. E. C. F. Ernst. 1,725,261; Aug. 20.  
 Wall-paper machine, Electrically-operated. S. Boros. 1,699,422; Jan. 15.  
 Wall paper or the like. F. E. Leitch. Des. 79,091; July 30.  
 Wall plate for electric-light fixtures. F. Yokel. Des. 78,428; Apr. 30.  
 Wall-plate support for separable cable connectors. J. C. Burg. 1,741,823; Dec. 31.  
 Wall pocket. R. De Boer. 1,700,121-2; Jan. 29.  
 Wall pocket or similar article. R. De Boer. Des. 79,348; Sept. 3.  
 Wall post, Adjustable. G. H. Anderson. 1,717,906; June 18.  
 Wall product and apparatus for and method of making same. C. E. Hite. 1,702,730; Feb. 19.  
 Wall seat. W. D. Johnston. 1,723,511; Aug. 6.  
 Wall seat. A. S. Kiser. 1,712,704; May 14.  
 Wall seat. A. F. Wasmuth. 1,732,732; Oct. 22.  
 Wall seat, Built-in. E. M. Trammell. 1,698,036; Jan. 8.  
 Wall structure. E. P. Jewell. 1,723,621; Aug. 6.  
 Wall structure. L. W. Ray. 1,738,842; Dec. 10.  
 Wall structure. M. J. Renaud. 1,705,373; Mar. 12.  
 Wall structure and building block therefor. A. C. Oesterla. 1,719,620; July 2.  
 Wall structure and producing same, Moistureproof. W. C. Stone. 1,729,632; Oct. 1.  
 Wall support structure. E. F. Hauserman, L. D. Mowery, and J. A. Bohnsack. Re17,547; Dec. 31.  
 Wall-texture composition. E. E. Stahlhut. 1,705,074; Mar. 12.  
 Wall tie. H. H. Lampert. 1,709,988; Apr. 23.  
 Wall tie. H. H. Lampert. 1,725,200; Aug. 20.  
 Wall, Water. H. G. Wolfe. 1,710,676; Apr. 23.  
 Wall wiper. K. O. Gober and L. H. Watty. 1,697,354; Jan. 1.  
 Wallet. D. H. Zell. Des. 77,930; Mar. 5.  
 Wallet for keys. C. C. Miles. 1,719,120; July 2.  
 Wallet, Key. J. Kreisler. 1,701,077; Feb. 5.  
 Walls, Making flexible corrugated tubular. W. M. Fulton. 1,727,281; Sept. 3.  
 Walls, Manufacture of flexible corrugated metallic. F. L. O. Wadsworth. 1,706,198; Mar. 19.  
 Walls, Method and apparatus for making flexible tubular. W. M. Fulton and J. V. Giesler. 1,702,047; Feb. 12.  
 Walls, Repairing refractory. D. W. Ross and J. M. Lambie. 1,727,675; Sept. 10.  
 Walls, Waterproofing hollow-tile. W. Zaisser. 1,735,447; Nov. 12.  
 Wardrobe. E. B. Green, jr. 1,734,768; Nov. 5.  
 Wardrobe, Automobile. C. J. Carlisle. 1,726,257; Aug. 27.  
 Wardrobe case. J. Ritter, jr. 1,719,625; July 2.  
 Wardrobe closet. M. P. Smith. 1,715,477; June 4.  
 Ware-transferring device. E. H. Lorenz. 1,715,204; May 28.  
 Warm-air furnace. R. L. Meyers. 1,719,990; July 9.  
 Warming closet for ranges. H. Lange. Des. 78,111; Mar. 26.  
 Warming device, Hand-. T. Jensen. 1,724,799; Aug. 13.  
 Warming device. G. H. Green. 1,709,212; Apr. 16.  
 Warming device. F. B. Thomas. 1,723,218; Aug. 6.  
 Warming device and support therefor, Combined traffic-. P. J. Chéron. Des. 79,500-5; Oct. 1.  
 Warming device and support therefor, Combined traffic-. G. H. Townsend. Des. 79,538; Oct. 1.  
 Warming device for vehicles, Audible traffic-. P. J. Chéron. Des. 79,499; Oct. 1.  
 Warning signal. E. Aufero. 1,716,510; June 11.  
 Warning signal. C. A. Persons. 1,735,979; Nov. 12.  
 Warp beam. F. C. Washburn. 1,741,800; Dec. 31.  
 Warp-separating machine. S. S. C. Fleischer. 1,714,951; May 28.  
 Warp stop mechanism. C. D. Brown. 1,714,998; May 28.  
 Warp stop mechanism for looms. C. H. Draper. 1,719,262; July 2.  
 Warp stop mechanism for looms. I. W. Noyes. 1,719,234; July 2.  
 Warp stop mechanism for looms. J. C. Vickers. 1,719,248; July 2.  
 Warp stop motion. W. H. Baker. 1,700,345; Jan. 29.  
 Warp stop motion. H. A. Whitin. 1,737,694; Dec. 3.  
 Warp-twisting-in machines, Warp-supporting means for. J. H. Becker. 1,697,103; Jan. 1.  
 Warper. J. W. Sidebottom. 1,707,957; Apr. 2.  
 Warper and method of warping yarn. H. D. Colman. 1,741,757; Dec. 31.  
 Warper driving mechanism. H. A. Leonard. 1,725,736; Aug. 20.  
 Washboard. F. Martin, sr. 1,712,390; May 7.  
 Washboiler. J. A. Dunham. 1,715,282; May 28.  
 Washboiler. E. Eisenbeiss. 1,723,389; Aug. 6.  
 Washboiler. N. D. Goff. 1,739,454; Dec. 10.  
 Wash boiler. H. V. Sisco. 1,735,938; Nov. 19.  
 Washboiler attachment. J. Grison. 1,737,234; Nov. 26.  
 Wash fountain, Individual. L. Schlesinger and H. E. Heine. 1,729,189; Sept. 24.  
 Wash-fountain spray head. H. E. Heine. 1,730,886; Oct. 8.  
 Washline, Universal. R. Jochimsen and B. Henze. 1,703,195; Feb. 26.  
 Washout plug and making the same. S. W. Elstone. Re17,445; Oct. 1.  
 Wash-rod-ring remover. F. C. Sandstrom and H. O. Alexander. 1,729,088; Sept. 24.  
 Washstand. C. G. Burbank. Des. 77,934; Mar. 12.  
 Washstand, Portable. J. A. Seibert. 1,732,864; Oct. 22.  
 Washtray fitting. P. Mueller. 1,701,692; Feb. 12.  
 Washtub sink unit, Combined. L. Schoen. 1,705,880; Mar. 19.  
 Washtub, Stationary. N. Ceriani. 1,725,254; Aug. 20.  
 Washer: Sec—  
     Air washer. Lock washer.  
     Automobile washer. Nut-locking washer.  
     Back washer. Print washer.  
     Bottle washer. Photograph-print washer.  
     Can washer. Photoprint washer.  
     Clothes washer. Retaining washer.  
     Fruit washer. Smoke washer.  
     Gas washer. Spring washer.  
     Gluten washer. Tableware washer.  
     Gravel washer.  
 Washer. A. R. Curtis. 1,728,667; Sept. 17.  
 Washer. F. S. Hammond. 1,723,163; Aug. 6.  
 Washer. H. L. Miller. 1,737,938; Dec. 3.  
 Washer. E. T. Strandlund. 1,712,408; May 7.  
 Washer. K. K. Wright. 1,697,894; Jan. 8.  
 Washer and drier, Combined clothes. J. C. Nelson and P. E. Geldhof. 1,720,851; July 16.  
 Washer and drier, Grain. T. C. Manning. 1,697,875; Jan. 8.  
 Washer and drier of the continuous centrifugal type, Combined. E. D. Eddy and A. W. Campbell. 1,704,466; Mar. 5.  
 Washer and separator, Gravel. A. M. Lockett. 1,698,442; Jan. 8.  
 Washer and sterilizer, Combination. P. F. Kraeft. 1,717,229; June 11.  
 Washer-conditioning machine. E. Hutchens. 1,735,612; Nov. 12.  
 Washer-feeding machine. E. B. Carter. 1,740,968; Dec. 24.  
 Washer-scratching machine. W. A. Bohne. 1,707,899; Apr. 2.  
 Washer-stacking machine. S. J. Finn. 1,698,785; Jan. 15.  
 Washers, nut blanks, and the like, Apparatus for making. J. F. Golding. 1,728,341; Sept. 17.  
 Washing and conditioning artificial silk wound on bobbins or the like. F. W. Schubert. 1,736,096; Nov. 19.  
 Washing and cooling ventilator, Domestic. P. G. Ellenberger. 1,717,016; June 11.  
 Washing and drying machine. D. D. Myers. 1,725,995; Aug. 27.  
 Washing and drying machine, Combination. J. Nelson. 1,705,779; Mar. 19.  
 Washing and drying machine, Fruit and vegetable. J. T. Evans. 1,708,721; Apr. 9.  
 Washing and separating sand and gravel, Apparatus for. H. G. Young. 1,704,115; Mar. 5.  
 Washing and wringing machine, Clothes. M. M. Jackson, B. Walgren, and A. T. Britton. 1,730,770; Oct. 8.  
 Washing apparatus. T. G. Booth and N. Craik. 1,726,381; Aug. 27.  
 Washing apparatus. H. B. Scott. 1,731,912; Oct. 15.  
 Washing apparatus. H. L. Towler. 1,709,238; Apr. 16.  
 Washing apparatus. R. D. Woodard. 1,699,867; Jan. 22.  
 Washing apparatus, Can-. S. K. Jensen. 1,730,658; Oct. 8.  
 Washing apparatus, Detachable. E. B. Jones. 1,740,097; Dec. 17.  
 Washing apparatus for separating coal and like materials. C. Marchant. 1,729,545; Sept. 24.  
 Washing apparatus, Fruit-. E. M. Brogden. 1,710,682; Apr. 30.  
 Washing apparatus, Hydraulic-casting-. W. Watson. 1,740,052; Dec. 17.



- Washing appliance, O. P. Greenstreet, 1,736,738; Nov. 19.  
 Washing, bleaching, and like machine, J. Lever and H. Hill, 1,728,767; Sept. 17.  
 Washing bottles, Apparatus for, A. E. Ladewig and G. F. Soelch, 1,734,585; Nov. 5.  
 Washing coal and other minerals by means of liquid streams, Plant for, A. France, 1,731,410; Oct. 15.  
 Washing coal and other minerals, Plant for, A. France, 1,704,185; Mar. 5.  
 Washing device, Automatic glass, K. Schmidt, 1,706,189; Mar. 19.  
 Washing dishes, Apparatus for, J. C. Cromwell, 1,724,910; Aug. 20.  
 Washing fruits and other vegetables, Apparatus for, L. C. White, 1,724,639; Aug. 13.  
 Washing fruits and vegetables, Machine for, J. Schmidt, 1,705,544; Mar. 19.  
 Washing golf balls, Device for, H. D. Day, 1,702,202; Feb. 12.  
 Washing gravel, F. R. Dravo, 1,737,004; Nov. 26.  
 Washing granular material, A. J. Mason, 1,741,063; Dec. 24.  
 Washing hot-gas valves, L. Wilputte, 1,726,092; Aug. 27.  
 Washing implement, A. E. Sokka, 1,699,316; Jan. 15.  
 Washing liquid, Making a, E. Scales, 1,728,082; Sept. 10.  
 Washing machine, A. W. Altorfer, 1,704,932; Mar. 12.  
 Washing machine, A. W. Altorfer, 1,717,177; June 11.  
 Washing machine, A. W. Altorfer, 1,738,753; Dec. 10.  
 Washing machine, A. W. Altorfer, 1,740,938; Dec. 24.  
 Washing machine, G. P. Anstiss, 1,697,220; Jan. 1.  
 Washing machine, G. P. Anstiss, 1,730,348; Oct. 8.  
 Washing machine, P. E. Barker, 1,731,517; Oct. 15.  
 Washing machine, G. S. Blakeslee, 1,711,221; Apr. 30.  
 Washing machine, M. E. Block, 1,728,744; Sept. 17.  
 Washing machine, A. W. Brannen, 1,701,224; Feb. 5.  
 Washing machine, E. Bugge, 1,719,586; July 2.  
 Washing machine, C. H. Canfield, 1,720,466; July 9.  
 Washing machine, E. D. Clarke, 1,709,774; Apr. 16.  
 Washing machine, L. E. Clemencet, 1,708,954; Mar. 26.  
 Washing machine, H. W. Covert, 1,718,115; June 18.  
 Washing machine, M. A. Defibaugh, 1,735,996; Nov. 19.  
 Washing machine, J. A. Dietenberger, 1,712,755; May 14.  
 Washing machine, H. G. Dugan, 1,702,503; Feb. 19.  
 Washing machine, E. L. Garfield, 1,697,861; Jan. 8.  
 Washing machine, B. E. Getz, 1,697,179; Jan. 1.  
 Washing machine, A. Graydon, 1,705,361; Mar. 12.  
 Washing machine, G. L. Hedges, 1,701,847; Feb. 12.  
 Washing machine, H. C. Hirschy, 1,716,960; June 11.  
 Washing machine, H. C. Hirschy, 1,737,421; Nov. 26.  
 Washing machine, E. B. Hoff, 1,721,956; July 23.  
 Washing machine, V. C. Huntington, 1,724,594; Aug. 13.  
 Washing machine, L. H. Jamouneau, 1,715,036; May 28.  
 Washing machine, J. H. Jones, 1,722,470; July 30.  
 Washing machine, G. B. Kelly, 1,706,405; Mar. 26.  
 Washing machine, F. Maus, 1,701,187; Feb. 5.  
 Washing machine, H. R. Merseles, 1,724,674; Aug. 13.  
 Washing machine, T. J. McDonald, 1,719,336; July 2.  
 Washing machine, W. W. McEwan, 1,717,724; June 18.  
 Washing machine, A. S. Moses, 1,699,618; Jan. 22.  
 Washing machine, A. R. Oberwegner, 1,714,276; May 21.  
 Washing machine, J. F. Perkins, 1,714,888; May 23.  
 Washing machine, J. E. Rempe, 1,740,437; Dec. 17.  
 Washing machine, F. T. Russell, 1,714,107; May 21.  
 Washing machine, F. B. Schuyler and J. F. Russell, 1,705,070; Mar. 12.  
 Washing machine, C. G. Sinclair, 1,700,749; Feb. 5.  
 Washing machine, H. F. Snyder, 1,738,457; Dec. 3.  
 Washing machine, O. E. Szekely, 1,723,314; Aug. 6.  
 Washing machine, O. E. Szekely and E. O. Holmgren, 1,723,313; Aug. 6.  
 Washing machine, C. W. Thomas, 1,724,234; Aug. 13.  
 Washing machine, M. Troy, 1,737,480; Nov. 26.  
 Washing machine, H. F. Vieau, 1,728,379; Sept. 17.  
 Washing machine, W. K. Voss and F. A. Johnson, 1,699,770; Jan. 22.  
 Washing machine, W. K. Voss, 1,725,891; Aug. 27.  
 Washing machine, P. H. Waller, Re17,318; June 4.  
 Washing machine, A. M. Wheeler, 1,724,240; Aug. 13.  
 Washing machine, O. B. Woodrow, 1,718,447; June 25.  
 Washing-machine agitator, F. R. Steelsmith, 1,720,975; July 16.  
 Washing-machine and laundry-tray drain apparatus, L. H. Arnold, 1,698,667; Jan. 8.  
 Washing-machine attachment, W. G. Haehl, 1,697,726; Jan. 1.  
 Washing machine, Bottle-, J. Kantor, 1,726,229; Aug. 27.  
 Washing-machine casing, G. M. Gibson, Des. 77,635; Feb. 12.  
 Washing-machine casing, L. B. Green, Des. 78,747; June 18.  
 Washing machine, Clothes-, I. M. Dellheim, 1,699,053; Jan. 15.  
 Washing machine, Clothes-, J. N. Derschug, 1,717,335; June 11.  
 Washing machine, Clothes-, C. C. Herbert, 1,735,391; Nov. 12.  
 Washing machine, Clothes-, L. A. Hersh, 1,725,351; Aug. 20.  
 Washing machine, Clothes-, J. B. Kirby, 1,741,191; Dec. 31.  
 Washing machine, Clothes-, J. B. Kirby, 1,741,317; Dec. 31.  
 Washing machine, Clothes-, C. Roberts, 1,718,981; July 2.  
 Washing machine, Clothes-, D. G. Smellie, 1,718,261; June 25.  
 Washing machine, Collapsible, C. S. Bossie, 1,708,931; Apr. 16.  
 Washing machine, Convertible, W. B. Ebelign and C. H. Briggs, 1,700,563; Jan. 29.  
 Washing-machine dolly, J. B. Fletcher, 1,726,980; Sept. 3.  
 Washing-machine dolly, B. E. Sipe, 1,707,644; Apr. 2.  
 Washing machine, Electric, R. H. Marsh, 1,739,405; Dec. 10.  
 Washing machine, Filter-cell, J. J. Preble, 1,705,680; Mar. 19.  
 Washing machine for vegetables, fruit, and the like, R. J. Stepitch, 1,716,712; June 11.  
 Washing machine, Fruit-, N. J. Ofstad, 1,740,868-70; Dec. 24.  
 Washing machine, Hydraulic, H. A. W. Howcott, 1,707,083; Mar. 26.  
 Washing-machine mechanism, A. G. Larson, 1,711,955; May 7.  
 Washing machine, Portable, G. E. McLean, 1,709,142; Apr. 16.  
 Washing machine, Receptacle-, W. N. Lurcott, 1,713,973; May 21.  
 Washing machine, Rotary, A. P. Brooks, 1,730,338; Oct. 1.  
 Washing machine, Rug-, W. V. Haas, 1,732,268; Oct. 22.  
 Washing machine, Silk-, C. G. Sargent, 1,709,158; Apr. 16.  
 Washing machine, Slack-, E. W. Swift, 1,713,408; May 14.  
 Washing machine, Table-silver-, A. D. Grünwald, 1,710,357; Apr. 23.  
 Washing-machine tub, J. L. Perkins and H. D. Croft, 1,730,238; Oct. 1.  
 Washing machine, Tumbler-, F. T. Burnham, 1,707,159; Mar. 26.  
 Washing-machine wringer release, E. Stroschein, 1,711,619; May 7.  
 Washing machines, Churn attachment for, C. C. King, 1,700,935; Feb. 5.  
 Washing machines, Distributor for, H. R. Merseles, 1,737,257; Nov. 26.  
 Washing machines, Door-closing mechanism for dry-cleaning, H. C. Curtiss, 1,713,691; May 21.  
 Washing machines, Drainage control for, H. C. Burbridge, 1,728,659; Sept. 17.  
 Washing machines, Paddle for, G. S. Blakeslee, 1,697,301; Jan. 1.  
 Washing machines, Reversing mechanism for, F. Wilson, 1,725,326; Aug. 20.  
 Washing minerals by means of liquid streams, Plant for, A. France, 1,699,962; Jan. 22.  
 Washing powder, Hand-, K. Röhrer, 1,713,920; May 21.  
 Washing, separating, and grading materials, Apparatus for, H. S. Gerken, 1,729,070; Sept. 24.  
 Washing textile goods, E. Riehl and O. Lind, 1,716,347; June 4.  
 Washing threads wound on bobbins, Apparatus for, R. Haas, 1,709,215; Apr. 16.  
 Washing tumblers, Apparatus for, O. Leavy, 1,708,302; Mar. 19.  
 Washing wool, E. C. Duhamel, 1,717,440; June 18.  
 Washing wool and other textile materials, E. C. Duhamel, 1,717,375; June 18.  
 Waste elevator, T. Rivinius, 1,735,585; Nov. 12.  
 Waste fixture, H. E. Robertson, 1,713,300; May 14.  
 Waste-heat boiler plant, F. G. McKelvy and J. E. Ball, 1,707,964; Apr. 2.  
 Waste material, Treating, A. G. Stillwell, 1,740,276; Dec. 17.  
 Waste receiver, Reversible, J. A. Maker, 1,737,603; Dec. 3.  
 Waste-reclamation system, E. S. Pearce, 1,713,711; May 21.  
 Watch, L. Werkstell and A. Colognorl, Des. 80,064; Dec. 3.  
 Watch bracelet, A. Wewetzer, Des. 78,958; July 9.  
 Watch-bracelet clasp, F. Armbrust, 1,701,060; Feb. 5.  
 Watchcase, A. P. Conant, Des. 77,395; Jan. 8.  
 Watchcase, A. P. Conant, Des. 77,638; Feb. 5.  
 Watchcase, A. P. Conant, Des. 79,879; Nov. 12.  
 Watchcase, A. P. Conant, Des. 180,116 Dec. 17.  
 Watchcase, H. Dinhofer, 1,702,894; Feb. 19.  
 Watchcase, A. E. Manheimer, Des. 79,434; Sept. 17.  
 Watchcase, C. Oppenheim, Des. 77,787; Feb. 19.  
 Watchcase, I. Roth, Des. 79,166; Aug. 6.  
 Watchcase, M. E. Schwab and A. Wuischpard, Des. 78,487; May 7.  
 Watchcase, A. V. Stegman, jr., Des. 77,439; Jan. 8.  
 Watchcase, A. V. Stegman, jr., Des. 79,675; Oct. 22.  
 Watchcase, A. W. Wadsworth, 1,721,651; July 23.  
 Watchcase, H. Wildorf, 1,727,531; Sept. 10.  
 Watchcase, W. Wishinsky, 1,709,700; Apr. 16.  
 Watchcase, S. Zullo, 1,722,514; July 30.  
 Watchcase bezel, A. P. Conant, Des. 78,447; May 7.  
 Watchcase bezel, A. V. Stegman, jr., Des. 78,492; May 7.  
 Watchcase bezel, A. W. Wadsworth, Des. 78,494; May 7.  
 Watch case, Wrist-, F. G. Gruen, Des. 77,764; Feb. 19.



- Watch centers, Making. R. J. Schwarz. 1,732,196; Oct. 15.  
 Watch construction. F. H. Franson. 1,738,239; Dec. 3.  
 Watch construction. J. B. Kislinger. 1,740,427; Dec. 17.  
 Watch crystal. P. B. Davis. 1,731,712; Oct. 15.  
 Watch-crystal-cutting machine. E. Gluck. 1,727,283; Sept. 3.  
 Watch fob. E. R. Inman, jr. Des. 79,374; Sept. 10.  
 Watch fob. C. Oppenheim. Des. 78,160; Aug. 6.  
 Watch-holding attachment for belts. F. A. Gogan. 1,729,578; Sept. 24.  
 Watch movement with sound hand, Odd-shaped. M. Favre. 1,708,610; Apr. 9.  
 Watch, Novelty. J. B. Kislinger. 1,740,426; Dec. 17.  
 Watch parts, Producing. R. Straumann. 1,735,805; Nov. 12.  
 Watch strap-attaching means, Wrist. A. F. Kraemer. 1,704,859; Mar. 12.  
 Watches, Connection device for. J. Dinhofer. 1,702,895; Feb. 19.  
 Water agitator. J. F. Kienninger. 1,707,733; Apr. 2.  
 Water and beverage cooler. O. E. Giese. 1,711,494; May 7.  
 Water bag, Fountain-syringe. A. R. Loban. 1,717,458; June 18.  
 Water board, Reversible. J. Nelson. 1,699,203; Jan. 15.  
 Water boiler, Electrically-heated. H. Hargreaves. 1,729,777; Oct. 1.  
 Water boiler, Hot-. W. B. Reed. 1,719,402; July 2.  
 Water boiler, Self-feeding electrically-heated. H. Hargreaves. 1,697,115; Jan. 1.  
 Water boiler, Steam or hot-. E. A. Schenck. 1,730,385; Oct. 8.  
 Water chamber. K. Kamüller. 1,705,089; Mar. 12.  
 Water-circulating apparatus attachment for internal-combustion motors and the like. G. L. Schofield. 1,708,239; Apr. 9.  
 Water-circulation system, Surface condenser. J. F. Grace. 1,733,992; Oct. 29.  
 Water-closet. J. De Rose. 1,719,425; July 2.  
 Water-closet. J. C. Duner. 1,711,635; May 7.  
 Water-closet combination. B. O. Tilden. Des. 80,197; Dec. 24.  
 Water-closet installation. U. G. Lee. 1,732,192; Oct. 15.  
 Water-closet, Sanitary. T. F. Payne. 1,732,530; Oct. 22.  
 Water-closets, Arrangement in. J. W. Henrekson. 1,740,346; Dec. 17.  
 Water control. W. B. Clifford. 1,733,525; Oct. 29.  
 Water control for flush tanks. W. Frankenberger. 1,711,563; May 7.  
 Water cooler. C. S. Batdorf. 1,698,386; Jan. 8.  
 Water cooler. D. H. Ebinger. Des. 77,896; Mar. 5.  
 Water cooler. D. H. Ebinger. 1,699,613; Jan. 22.  
 Water cooler. J. N. Gennis. 1,740,585; Dec. 24.  
 Water cooler. J. T. Hamilton. 1,709,978; Apr. 23.  
 Water cooler. J. H. Lakin. 1,701,977-8; Feb. 12.  
 Water cooler. M. Raymond. 1,713,395; May 14.  
 Water cooler. M. Raymond. 1,724,313; Aug. 13.  
 Water cooler. W. C. Willets. 1,703,436; Feb. 26.  
 Water cooler and chest. A. Harrison. 1,709,980; Apr. 23.  
 Water-deflecting means for distributors and the like. R. T. Wright. 1,706,764; Mar. 26.  
 Water-delivery device. E. B. Funston. 1,722,960; July 30.  
 Water elevator. G. M. Ask. 1,700,662; Jan. 29.  
 Water-feed control for liquid-fuel burners. R. L. Foster. 1,717,966; June 18.  
 Water-feed regulator. R. Morrison. 1,726,710; Sept. 3.  
 Water from Petroleum, Method of and apparatus for separating ground. E. F. Cantrall. 1,732,222; Oct. 22.  
 Water gas and extracting oil from oil shale, Producing. A. Schilling, R. Sachse, D. Llamín, and T. Callaert. 1,716,667; June 11.  
 Water-gas apparatus, Carbureted. R. M. Searle. 1,726,517; Aug. 27.  
 Water-gas generator. O. B. Evans. 1,699,231; Jan. 15.  
 Water gauge. C. Brown. 1,719,751; July 2.  
 Water gauge. G. Ernst. 1,701,914; Feb. 12.  
 Water gauge. R. H. Floyd and M. G. Wolf. 1,708,942; Apr. 16.  
 Water gauge. L. A. Jarvis. 1,712,794; May 14.  
 Water gauge, Locomotive-tank. W. A. McBrayer. 1,702,447; Feb. 19.  
 Water glide shoe. J. and C. Krupka. 1,719,059; July 2.  
 Water heater. C. B. Backer. 1,697,157; Jan. 1.  
 Water heater. H. L. Blanding. 1,717,490; June 18.  
 Water heater. E. W. Christian. 1,734,075; Nov. 5.  
 Water heater. B. G. Cope. 1,722,661; July 30.  
 Water heater. V. W. Dashnaw. 1,738,948; Dec. 10.  
 Water heater. B. Giragosian. 1,739,138; Dec. 10.  
 Water heater. C. Hellsten. 1,698,911; Jan. 15.  
 Water heater. O. C. Kuebler. 1,732,129; Oct. 15.  
 Water heater. C. U. Levis. 1,719,015; July 2.  
 Water heater. W. J. McClurg. 1,727,015; Sept. 3.  
 Water heater. J. W. Miller. 1,716,649; June 11.  
 Water heater. O. F. Nilsson. 1,706,036; Mar. 19.  
 Water heater. J. H. Newport. 1,708,485; Apr. 9.  
 Water heater. A. E. Paige. 1,724,885; Aug. 13.  
 Water heater. B. A. Pedigo. 1,729,641; Oct. 1.  
 Water heater. C. A. Pierson. 1,731,058; Oct. 8.  
 Water heater. D. F. Priser. 1,734,828; Nov. 5.  
 Water heater. D. Slotsky. 1,715,956; June 4.  
 Water heater. G. Smith. 1,716,508; June 11.  
 Water heater. A. Szarka. 1,728,017; Sept. 10.  
 Water heater. J. A. Tyler. 1,705,382; Mar. 12.  
 Water heater. O. von Zsolnay, C. Coquelin, and W. Schulz. 1,716,021; June 4.  
 Water heater. F. L. O. Wadsworth. 1,738,086; Dec. 3.  
 Water heater. F. L. O. Wadsworth. 1,738,088; Dec. 3.  
 Water heater. L. T. Wilcox. 1,726,686; Sept. 3.  
 Water heater. L. T. Wilcox. 1,741,175; Dec. 31.  
 Water heater, Automatic. G. R. O'Neal. 1,704,807; Mar. 12.  
 Water heater, Auxiliary. J. E. Ercanbrack. 1,724,998; Aug. 20.  
 Water heater, Dental. R. A. Mercer. 1,724,767; Aug. 13.  
 Water-heater drain. J. P. Morley. 1,742,000; Dec. 31.  
 Water heater, Electric. M. M. Adam. 1,716,996; June 11.  
 Water heater, Electric. P. Ambory. 1,731,995; Oct. 15.  
 Water heater, Electric. V. Boschetti. 1,717,308; June 11.  
 Water heater, Electric. U. W. Branchaud. 1,733,397; Oct. 29.  
 Water heater, Electric. F. L. Combs. 1,715,899; June 4.  
 Water heater, Electric. M. S. Gazelle. 1,698,992; Jan. 15.  
 Water heater, Electric. S. Halle. 1,717,207; June 11.  
 Water heater, Electric. C. H. Hornby. 1,735,165; Nov. 12.  
 Water heater, Electric. L. B. Hyde and M. S. Gazelle. 1,723,733; Aug. 6.  
 Water heater, Electric. A. J. Kercher and W. W. Hicks. 1,699,738; Jan. 22.  
 Water heater, Electric. A. Martin. 1,698,801; Jan. 15.  
 Water heater, Electric. H. A. Mulvany. 1,712,931; May 14.  
 Water heater, Electric. W. H. Orr. 1,718,303; June 25.  
 Water heater, Electric. C. F. Rogers. 1,705,417; Mar. 12.  
 Water heater, Electric. C. J. Scanlan. 1,707,322; Apr. 2.  
 Water heater, Electric. C. W. Thoeirig. 1,732,667; Oct. 22.  
 Water heater, Electrically-operated. R. L. Shriner. 1,725,832; Aug. 27.  
 Water heater, Feed-. C. G. Duffy. 1,723,771; Aug. 6.  
 Water heater, Feed-. P. Dugelay. 1,733,898-90; Oct. 29.  
 Water heater, Feed-. L. O. Garraway. 1,698,787; Jan. 15.  
 Water heater, Feed-. A. Starr. 1,738,848; Dec. 10.  
 Water heater, Submerged. O. Pearson. 1,697,018; Jan. 1.  
 Water-heating-controlling device. R. R. Root. 1,724,804; Aug. 13.  
 Water into flush tanks, Controlling the discharge of. W. U. Griffiths. 1,737,233; Nov. 26.  
 Water jet. T. A. Carter. 1,719,045; July 2.  
 Water-level indicator, Battery-. C. E. Krueger. 1,724,287; Aug. 13.  
 Water-level indicator for high-pressure steam boilers. J. Jonas. 1,723,512; Aug. 6.  
 Water-lifting apparatus. T. J. Porter. 1,727,216; Sept. 3.  
 Water meter. A. J. Loepsinger. 1,719,666; July 2.  
 Water meter. L. Van Gilder. 1,718,803; June 25.  
 Water meter, Prepayment. J. Van Kleef. 1,722,185; July 23.  
 Water, Method of and apparatus for the continuous softening of. C. H. Nordell. 1,740,199; Dec. 17.  
 Water-power device. N. E. Webb. 1,737,530; Nov. 26.  
 Water-power engine. M. Reiffenstein. 1,722,158; July 23.  
 Waterproof and flameproof material. F. L. Roman. 1,720,747; July 16.  
 Waterproof composition and making same, Felted. L. Kirschbraun. 1,725,645; Aug. 20.  
 Waterproof compositions, Making. L. Kirschbraun. 1,722,431; July 30.  
 Waterproof paper board, Making. E. Bache. 1,735,030; Nov. 12.  
 Waterproof sheet and making the same, Composite. C. H. Rayner. 1,714,240; May 21.  
 Waterproof seam and making same. G. W. Blair. 1,725,749; Aug. 27.  
 Waterproof straw pulpboard, Making. E. B. Weston and W. G. Clark. 1,697,702; Jan. 1.  
 Waterproofing. W. E. Ficklen. 1,731,162; Oct. 8.  
 Waterproofing. S. L. Willis and W. H. Woodford. 1,701,868; Feb. 12.  
 Waterproofing. S. L. Willis and W. H. Woodford. 1,738,628; Dec. 10.  
 Waterproofing composition of matter. W. B. Van Arsdell. 1,714,702; May 28.  
 Waterproofing compositions and products, Preparing. A. F. Owen. Re17,541; Dec. 31.  
 Waterproofing fabrics. K. B. Church. 1,732,121; Oct. 15.  
 Waterproofing leather for packing and other purposes. J. J. Doughten. 1,735,564; Nov. 12.  
 Waterproofing material and making the same. L. Kirschbraun. 1,708,927; Apr. 9.  
 Waterproofing material to sheets, Apparatus for applying. L. Kirschbraun and C. R. MacDonald. 1,724,137; Aug. 13.  
 Waterproofing materials. A. S. O'Neil and A. J. Hindrichs. 1,729,650; Oct. 1.  
 Waterproofing paper and the like. A. F. Campa. 1,731,969; Oct. 15.  
 Waterproofing surfaces. E. R. Oden. 1,721,861; July 23.  
 Water propulsion device. H. L. Johnson. 1,716,962; June 11.  
 Water purifier, Electrical. T. J. Curtis. 1,702,767; Feb. 19.  
 Water regulator, Boiler-feed-. B. Garlius. 1,726,529; Sept. 3.  
 Water regulator, Feed-. H. A. W. Petersen. 1,714,519; May 28.  
 Water replenisher and level maintainer. L. Ehmann. 1,741,982; Dec. 31.



- Water reservation, Apparatus for. G. W. Enderson. 1,711,308; Apr. 30.
- Water-screen connection. J. Van Brunt and G. P. Jackson. 1,738,544; Dec. 10.
- Water screen, Traveling. C. J. Hobart. 1,732,649; Oct. 22.
- Water single-line supply system, hot and cold. C. T. McGill. 1,698,342; Jan. 8.
- Water-signal switch. K. V. Knapp. 1,725,358; Aug. 20.
- Water softener. C. P. Eisenhauer. 1,706,777; Mar. 26.
- Water softener. G. A. Mutch. 1,741,645; Dec. 31.
- Water softener. C. A. Stickney. 1,725,110; Aug. 20.
- Water softener and filter, Base-exchange. C. T. McGill. 1,703,451; Feb. 26.
- Water-softener apparatus. C. F. Smith. 1,719,908; July 9.
- Water softener, Automatic. C. P. Eisenhauer. 1,731,526; Oct. 15.
- Water softener, Automatic and semiautomatic. V. L. Tannehill. 1,713,105; May 14.
- Water-softener device. W. L. and H. L. McLaughlin. 1,726,082; Aug. 27.
- Water-softener machine. W. L. McLaughlin and H. L. McLaughlin. 1,726,083; Aug. 27.
- Water softener, Sanitary base-exchange. C. T. McGill. 1,704,051; Mar. 5.
- Water softener, Semiautomatic. O. R. Sweeney. 1,698,743; Jan. 15.
- Water, Softening. W. H. Green. 1,702,257; Feb. 19.
- Water, Softening. S. A. Sanford. 1,705,589; Mar. 19.
- Water-softening apparatus. C. P. Eisenhauer. 1,699,836; Jan. 22.
- Water-softening apparatus. C. P. Eisenhauer. 1,708,916; Apr. 9.
- Water-softening apparatus. C. P. Eisenhauer. 1,740,540; Dec. 24.
- Water-softening apparatus. W. H. Green. 1,702,256; Feb. 19.
- Water-softening apparatus. W. J. Hughes. 1,701,719; Feb. 12.
- Water-softening apparatus. L. G. Lindsay. 1,704,982; Mar. 12.
- Water-softening apparatus. E. A. Robertson. 1,704,925; Mar. 12.
- Water-softening apparatus. E. T. Turner. 1,697,095; Jan. 1.
- Water-softening apparatus, Automatic. C. H. Nordell. 1,722,938; July 30.
- Water-softening device. S. A. Wiör. 1,725,236; Aug. 20.
- Water-softening filter and regenerating and purifying the same. C. Hufschmidt. 1,719,548; July 2.
- Water softening material in a softening apparatus, Method and apparatus for reconditioning the. E. T. Turner. 1,722,603; July 30.
- Water-softening material, Preparing. G. W. Prather. 1,724,679; Aug. 13.
- Water-soluble condensation product and making same. K. Dachlauer and C. Thomsen. 1,732,503; Oct. 22.
- Water-soluble substance containing colloidal silver chloride. O. Neubert. 1,734,269; Nov. 5.
- Water sprinkler, Fertilizing. M. W. McArdle. Des. 79,663; Oct. 22.
- Water sprinkler, Rotary. F. C. Orr. 1,730,623; Oct. 8.
- Water supply and faucet nozzle therefor, System of predetermined constant. S. Kersten. 1,734,533; Nov. 5.
- Water-supply control, Automatic. J. A. Cole. 1,721,944; July 23.
- Water supply for low-pressure steam boilers, Automatic. L. Simmons. 1,699,997; Jan. 22.
- Water-supply system and valve therefor. E. O. Hamren. 1,712,224; May 7.
- Water swivel for use in well drilling. E. Lindsey. 1,737,463; Nov. 26.
- Water system. C. F. Kettering and G. A. Buvinger. 1,698,265; Jan. 8.
- Water system. C. Warner. 1,724,056; Aug. 13.
- Water system, Feed-. A. Stubbs. 1,727,948; Sept. 10.
- Water system, Hot-. N. M. Knudsen. 1,730,736; Oct. 8.
- Water system, Hot-. F. W. Shuell. 1,734,920; Nov. 5.
- Water-tube boiler. G. Burkhardt. 1,733,644; Oct. 29.
- Water-tube boiler. P. F. Crinks. 1,720,469; July 9.
- Water-tube boiler. A. C. Danks. Re17,464; Oct. 22.
- Water-tube boiler. A. C. Danks. 1,707,627; Apr. 2.
- Water-tube boiler. A. C. Danks and K. L. Martin. 1,702,933; Feb. 19.
- Water-tube boiler. E. A. Field. 1,716,770; June 11.
- Water-tube boiler. O. Giannelli. 1,713,176; May 14.
- Water-tube boiler. C. B. Lindstrom. 1,725,463; Aug. 20.
- Water-tube boiler. H. J. S. MacKay. 1,726,112; Aug. 27.
- Water-tube boiler. G. J. Mog. 1,726,234; Aug. 27.
- Water-tube connection. R. H. Wilhelm. 1,719,155; July 2.
- Water-vapor-supply device for fuel charges of internal-combustion engines. P. L. Jones. 1,738,904; Dec. 10.
- Water-walking device. E. Dabrowski. 1,711,307; Apr. 30.
- Water waves, Apparatus for use in connection with. P. Brasher. 1,716,616; June 11.
- Water wheel. A. Carpenter. 1,704,691; Mar. 12.
- Water wheel. A. V. Marshall. 1,701,687; Feb. 12.
- Waterer, Stock. G. T. Markey. 1,711,800; May 7.
- Waterer, Stock. F. D., jr. and P. E. Spickler. 1,704,226; Mar. 5.
- Watering plant, Field. A. Horten. 1,726,986; Sept. 3.
- Watering fountain, Stock-. J. M. Krumm. 1,738,303; Dec. 3.
- Watless component meter. W. Beusch. 1,734,109; Nov. 5.
- Wave and tide motor. O. L. Darwin. 1,701,146; Feb. 5.
- Wave comb, Water-. B. A. Beattie. 1,706,136; Mar. 19.
- Wave communication, Multiplex carrier. E. H. Smythe. 1,709,044; Apr. 16.
- Wave conservator. J. C. Avakian. 1,716,751; June 11.
- Wave detection and transmission apparatus, Multiple. J. E. Parker. 1,702,917; Feb. 19.
- Wave filter. L. O. Marsteller. 1,725,154; Aug. 20.
- Wave filter, Electric. E. L. Norton. 1,708,950; Apr. 16.
- Wave meter. P. MacGahan. 1,697,196; Jan. 1.
- Wave oscillator, Short-. A. Esau. 1,733,454; Oct. 29.
- Wave preserver. N. Fulton. 1,707,392; Apr. 2.
- Wave reception and emission, Method and arrangement of directional. W. Hahnemann, H. Hecht, and B. Nielsen. 1,735,460; Nov. 12.
- Wave rectifier with glow cathode, Full-. H. J. Spanner. 1,708,852; Apr. 9.
- Wave repeating and amplifying. R. A. Heising. 1,722,089; July 23.
- Wave signaling system. L. A. Hazeltine. Re17,530; Dec. 17.
- Wave signaling system, Power-line carrier. R. M. Pease. 1,719,485; July 2.
- Wave transferring system. R. V. L. Hartley. 1,737,843; Dec. 3.
- Wave transmission, Carrier-. E. Peterson. 1,733,556; Oct. 29.
- Wave transmission means. S. E. Anderson. 1,733,274; Dec. 3.
- Wave translation system, Electric-. E. Bruce. 1,710,254; Apr. 23.
- Wave translation system, Electric. A. G. Jensen. 1,722,094; July 23.
- Wave transmission system, Electric-. F. X. Rettenmeyer. 1,717,064; June 11.
- Wave-transmission system, Electrical. H. J. Fisher. 1,734,121; Nov. 5.
- Wave-transmitting apparatus. C. von Hofe and M. Maurer. 1,716,199; June 4.
- Waving device, Electrical permanent-. L. Mediavilla. 1,707,561; Apr. 2.
- Waving hair, Apparatus and articles for. G. R. Thompson. 1,720,865; July 16.
- Waving hair, Device for. C. Budina and P. J. Troddyn. 1,713,947; May 21.
- Waving of hair, Means pertaining to permanent. C. Nessler. 1,712,225; May 7.
- Waving of hair, Method pertaining to permanent. C. Nessler. 1,724,303; Aug. 13.
- Wax, Applying sealing. F. M. Durkee. 1,705,107; Mar. 12.
- Wax articles, Manufacturing hollow. F. A. Malin. 1,703,348; Feb. 26.
- Wax, Bleaching Montan. W. Pungs and T. Hellthaler. 1,698,450; Jan. 8.
- Wax eliminator. E. A. Donaldson. 1,726,345; Aug. 27.
- Wax from hydrocarbon oils, Removal of. R. S. Lane. 1,706,120; Mar. 19.
- Wax from petroleum oils, Removing amorphous. P. M. Travis. 1,732,143-4; Oct. 15.
- Wax heating and sealing device. J. Weisbarth. 1,714,147; May 21.
- Wax, Manufacture of a ceresine like. G. L. Wendt and C. Banta. 1,735,555; Nov. 12.
- Wax, Manufacture of high-melting-point. F. W. Sullivan, jr. 1,740,125; Dec. 17.
- Waxing and polishing machine, Floor. W. L. Keefer. 1,736,446; Nov. 19.
- Waxing and polishing machine, Floor. J. Sassano. 1,739,653; Dec. 17.
- Waxing machine. F. T. Gleeson. 1,697,761; Jan. 1.
- Waxing machine. G. H. Nelson and A. R. Thatcher. 1,739,933; Dec. 17.
- Waxlike product and producing the same. W. L. Wright. 1,738,630; Dec. 10.
- Waybill. V. H. Austin. 1,702,026; Feb. 12.
- Weaning device. A. M. Bailey. 1,714,414; May 21.
- Wear distributor for suction-roll shells. H. R. Farnsworth. 1,730,921; Oct. 8.
- Wear in structural members, Taking up. E. Pacy. 1,714,187; May 21.
- Wearing apparel. E. P. Parsons. 1,698,066; Jan. 8.
- Weather-map pen box. C. F. Jenkins. 1,740,353; Dec. 17.
- Weatherproof fabric. W. J. Bossemeyer. 1,720,315; July 9.
- Weatherproofing for window casings, etc. M. Mullins. 1,701,791; Feb. 12.
- Weatherproofing structure. D. H. Harnly. 1,698,949; Jan. 15.
- Weather strip. A. H. Atzenhoffer. 1,704,997-8; Mar. 12.
- Weather strip. H. E. Bricker. 1,711,340; Apr. 30.
- Weather strip. H. E. Bricker. 1,732,494; Oct. 22.
- Weather strip. F. B. Bucknott. 1,738,350; Dec. 3.
- Weather strip. C. R. de Laubenfels. 1,701,321; Feb. 5.
- Weather strip. E. E. Greene. 1,728,120; Sept. 10.
- Weather strip. L. V. Hamilton. 1,732,470; Oct. 22.
- Weather strip. J. A. Hendley. 1,719,265; July 2.
- Weather strip. F. Kilberg. 1,727,990; Sept. 10.
- Weather strip. J. W. Marsden. 1,731,343; Oct. 15.
- Weather strip. C. McVeety. 1,728,576; Sept. 3.
- Weather strip. A. Miller. 1,702,217; Feb. 12.
- Weather strip. E. C. Miller. 1,721,707; July 23.
- Weather strip. H. E. Smith and L. F. Julien. 1,718,929; June 25.



- Weather strip. A. J. and A. R. P. Spanjers. Re17,539; Dec. 24.
- Weather strip. R. E. Stanton. 1,728,453; Sept. 17.
- Weather strip, Automatic. J. E. Sward. 1,709,419; Apr. 16.
- Weather strip, Combination. J. J. Behen. 1,736,693; Nov. 19.
- Weather strip, Detachable. M. B. Morrill. 1,736,885; Nov. 26.
- Weather strip, Metal. H. S. Bostick. 1,707,074; Mar. 26.
- Weather strip, Metal. A. M. Lane. 1,741,781; Dec. 31.
- Weather strip, Metal. G. F. Wolff. 1,728,650; Sept. 17.
- Weather strip, Metallic. F. W. Brazell. 1,701,969; Feb. 5.
- Weather strip, Metallic. F. W. and O. W. Brazell. 1,734,711; Nov. 5.
- Weather strip, Windshield. W. S. Pritchard. 1,737,094; Nov. 26.
- Weather stripping. C. C. Burdine. 1,728,650; Sept. 17.
- Weather stripping. W. J. Dennis. 1,713,268; May 14.
- Weather stripping. J. H. Raymond. 1,701,214; Feb. 5.
- Weather stripping, Metal. W. J. Dennis. 1,734,118; Nov. 5.
- Weather strips, Corner contact member for. F. Reese. 1,733,202; Oct. 29.
- Weave dooby, Two-. A. A. Gordon. 1,737,654; Dec. 3.
- Weaving. R. Crompton. 1,740,763; Dec. 24.
- Weaving machine. H. R. Lownsberrry. 1,728,497; Sept. 17.
- Weaving machine, Bead-tape-. R. C. Pierce. 1,718,832; June 25.
- Weaving machine, Jacquard. A. Pivetz. 1,714,444; May 21.
- Weaving machine, Reed-. M. B. Lloyd. 1,703,276; Feb. 26.
- Weaving associating mechanism. J. J. Halliwell. 1,714,870; May 23.
- Web carrier for papermaking machines. W. E. Sheehan. 1,712,587; May 14.
- Web-dispensing device. L. H. Morin. 1,738,721; Dec. 10.
- Web-handling device. A. E. Richey. 1,737,127; Nov. 26.
- Web-joining apparatus. J. T. Peto. 1,739,610; Dec. 17.
- Web perforating and folding mechanism. A. Novick. 1,721,085; July 16.
- Web-registering means. O. Wohlrabe. 1,735,100; Nov. 12.
- Web-roll-controlling mechanism. H. V. Ball and R. D. Smalley. 1,739,116; Dec. 10.
- Web-roll-shifting mechanism. H. V. Ball. 1,716,511; June 11.
- Web support and upholstery construction. M. Krause. 1,700,939; Feb. 5.
- Web, Transfer. S. A. Neidich. 1,700,415; Jan. 29.
- Web-winding machine, Automatic. C. L. Johnston. 1,717,510; June 18.
- Webbing fabric. C. A. Horton. 1,726,564; Sept. 3.
- Webbing for suspenders, garters, and similar articles. A. Sheldon. Des. 80,093; Dec. 10.
- Wedding ring. J. Goldstein and B. Z. Rosenthal. Des. 79,555; Oct. 8.
- Wedding ring. W. Pels. Des. 79,383; Sept. 10.
- Wedge. E. J. Bergstrom. 1,735,448; Nov. 12.
- Wedge block, Collapsible. J. L. Helsing. 1,714,024; May 21.
- Wedge bolt, Removable. F. C. McEnerny. 1,711,099; Apr. 30.
- Wedge retainer, Dust-guard-. L. H. Stomps. 1,739,807; Dec. 17.
- Wedge, Window. J. H. Grininger. 1,734,483; Nov. 5.
- Weed and grass burning device. I. A. Caswell. 1,707,845; Apr. 2.
- Weed-burning apparatus. E. C. Graves. 1,711,527; May 7.
- Weed-burning device. C. O. Mickle. 1,712,153; May 7.
- Weed cutter. L. C. Swim, G. H. Olivias, and L. O. Brewer. 1,711,033; Apr. 30.
- Weed cutter, Highway. H. C. Ohler. 1,726,918; Sept. 3.
- Weed-destroying device. T. M. Reimers. 1,732,279; Oct. 22.
- Weed extractor. R. Mills. 1,710,781; Apr. 30.
- Weeder. W. A. Gordon, Jr., and S. W. Hickman. 1,731,304; Oct. 15.
- Weeder. J. A. Lindquist. 1,713,474; May 14.
- Weeder and cultivator, Breast-pushed. D. E. Richardson. 1,705,140; Mar. 12.
- Weeder attachment for harrows. O. R. Koller. 1,720,490; July 9.
- Weeder, Constant-cutting self-dumping. I. F. Kippes. 1,731,579; Oct. 15.
- Weeder frame, Flexible. C. L. Kay. 1,732,724; Oct. 22.
- Weeder, Rotary-rod. R. M. Largent and L. C. Van Patten. 1,710,881; Apr. 30.
- Weeder, Rotary-rod. L. C. Van Patten. 1,697,484; Jan. 1.
- Weeder, Rotary-rod. L. C. Van Patten. 1,718,503; June 25.
- Weft detector for looms, Side-slipping. A. J. Chevrete. 1,724,257; Aug. 13.
- Weft detector in loom transferrer arm. O. V. Payne. 1,711,616; May 7.
- Weft detector in transferrer. O. V. Payne. 1,711,615; May 7.
- Weft detector, Side-slip. K. J. Unwin. 1,739,188; Dec. 10.
- Weft detector, Side-slipping-. O. V. Payne. 1,738,198; Dec. 3.
- Weft detector, Side-slipping. R. G. Turner. 1,703,910; Mar. 5.
- Weft exhaustion, Device to prevent repeated indication of. W. H. King. 1,741,316; Dec. 31.
- Weft exhaustion, Device to prevent repeated indication of. K. J. Unwin and W. H. Wakefield. 1,734,063; Nov. 5.
- Weft-replenishing magazine. A. A. Gordon. 1,707,394; Apr. 2.
- Weft-replenishing mechanism, Multicolor-. W. H. Wakefield. 1,730,024; Oct. 1.
- Weft when weaving fabrics, Slackening the. J. Morton and J. B. Webster. 1,708,148; Apr. 9.
- Weigher, Grain. A. W. Wessman. 1,734,412; Nov. 5.
- Weighing and bag-filling machine. G. Hoepner. 1,721,909; July 23.
- Weighing and closing machine, Filled-bag. N. V. Christensen. 1,719,651; July 2.
- Weighing and packaging machine. S. R. Howard. 1,739,072; Dec. 10.
- Weighing and printing machine. G. F. Hochriem. 1,710,980; Apr. 30.
- Weighing apparatus. J. W. Taylor. 1,740,795; Dec. 24.
- Weighing apparatus. A. Van Dyun. 1,719,457; July 2.
- Weighing apparatus for thrashing machines. W. Winslow. 1,709,451; Apr. 16.
- Weighing continuously-moving granular material, Apparatus for. J. Ihlefeldt. 1,717,564; June 18.
- Weighing device. L. A. Biehler. 1,729,414; Sept. 24.
- Weighing device. H. M. Swartley. 1,734,751; Nov. 5.
- Weighing device, Automatic. W. Timson. 1,740,798; Dec. 24.
- Weighing device for liquids, Automatic. C. A. Destree. 1,707,389; Apr. 2.
- Weighing machine. E. M. Carter. 1,705,217; Mar. 12.
- Weighing machine. S. R. Howard. 1,724,591; Aug. 13.
- Weighing machine. J. Markman. 1,703,401; Feb. 26.
- Weighing machine. D. J. Mills. 1,719,482; July 2.
- Weighing machine. T. Rival. 1,718,007; June 18.
- Weighing machine. L. D. Tomlinson. 1,724,889; Aug. 13.
- Weighing machine. R. C. F. Vogel. 1,718,842; June 25.
- Weighing machine, Automatic. G. G. Merchen. 1,723,429; Sept. 17.
- Weighing machine, Automatic. A. Smith and C. Southall. 1,729,192; Sept. 24.
- Weighing machine, Grain-. W. Langerak. 1,721,025; July 16.
- Weighing scale, Automatic. J. W. Wesley. 1,723,829; Aug. 6.
- Weighing-scale casing. M. H. Hansen. Des. 78,751; June 18.
- Weighing-scales switch, Recording-. A. K. Ygger. 1,734,456; Nov. 5.
- Weight balance, Variable-. W. Heusser. 1,702,006; Feb. 12.
- Weight for shafts and attaching, Counter. B. W. Twyman. 1,705,165; Mar. 12.
- Weight, Garment. A. Levenson. 1,741,060; Dec. 24.
- Weight-operated switch. E. A. McNeill. 1,737,471; Nov. 26.
- Weight, Paper. C. E. Cole. Des. 78,806; June 25.
- Weight, Paper. J. Garaja. 1,741,692; Dec. 31.
- Weight, Paper. F. J. Kristofek. Des. 77,843; Feb. 26.
- Weight, Paper. J. W. Miller and E. R. Spiegel. 1,731,749; Oct. 15.
- Weight, Sash. W. Wolff. 1,704,931; Mar. 12.
- Weighting fibers of cellulose derivatives. C. Dreyfus and H. Platt. 1,731,298; Oct. 15.
- Weighting machine. W. C. Wright. 1,708,858; Apr. 9.
- Weir meter. G. D. Dodd. 1,710,474; Apr. 23.
- Weir with hinged top flap or head, Movable. H. Zimmermann. 1,733,850; Oct. 29.
- Weld rod and making the same. J. M. Weed. 1,734,932; Nov. 5.
- Welded cross brace. K. C. Gardner. 1,710,501; Apr. 23.
- Welded joint. W. G. Wehr. 1,740,053; Dec. 17.
- Welded pipes, Reducing stresses in. J. R. Dawson. 1,737,786; Dec. 3.
- Welded reinforcing fabrics, Machine for making. W. H. Sommer. 1,715,794; June 4.
- Welded torsion-resisting crossbar, Electrically-. C. S. Smith. 1,704,843; Mar. 12.
- Welded tubes, Manufacture of butt-. D. W. Chisholm. 1,735,234; Nov. 12.
- Welder, Spot. R. H. Pratt. 1,720,570; July 9.
- Welders, Mechanically-operated butt. J. A. Muir. 1,736,617; Nov. 19.
- Welding. W. R. Hume. 1,717,779; June 18.
- Welding. H. D. Kelley. 1,727,345; Sept. 10.
- Welding. S. J. Kniatt. 1,703,111; Feb. 26.
- Welding a drill, Electrically. H. Petley. 1,703,899; Mar. 5.
- Welding and soldering composition. C. Dürsch. 1,722,040; July 23.
- Welding apparatus. R. F. Agnew. 1,698,080; Jan. 8.
- Welding apparatus. W. Frick. 1,727,166; Sept. 3.
- Welding apparatus. A. R. Gross. 1,714,867; May 28.
- Welding apparatus. F. C. Leonard. 1,738,592; Dec. 10.
- Welding apparatus. W. H. Pierson. 1,739,691; Dec. 17.
- Welding apparatus. C. C. Pinckney. 1,740,117; Dec. 17.
- Welding apparatus. J. C. White. 1,740,133; Dec. 17.
- Welding apparatus, Alternating-current arc. C. B. Waters. 1,727,224; Sept. 3.
- Welding apparatus, Automatic electric. A. J. Hand. 1,707,433; Apr. 2.
- Welding apparatus, Electric. A. Churchward. 1,720,664; July 16.
- Welding apparatus, Electric. W. R. Hume. 1,710,258; Apr. 23.



- Welding apparatus, Electric. P. O. Noble. 1,731,934; Oct. 15.
- Welding apparatus, Electric. G. A. Thornton and W. Remington. 1,715,017; May 28.
- Welding apparatus, Electric pipe-. W. E. Rupley. 1,741,076; Dec. 24.
- Welding Apparatus for. T. A. Daniel. 1,734,716; Nov. 5.
- Welding apparatus for attaching tie plates to steel railroad ties. L. Kuhl and C. Ritz. 1,720,222; July 9.
- Welding, Apparatus for line. H. W. Tobey. 1,728,812; Sept. 17.
- Welding apparatus, Key-. W. F. Butler. 1,699,091. Jan. 15.
- Welding apparatus, Portable. H. E. Bryant. 1,736,428; Nov. 19.
- Welding apparatus, Spot-. W. H. Pierson. 1,703,541; Feb. 26.
- Welding, Arc. M. Zack. 1,707,036; Mar. 26.
- Welding band saws. O. J. W. Loughheed. 1,718,746; June 25.
- Welding cast iron and filler rod therefor. H. V. Wille. 1,708,815; Apr. 9.
- Welding clamp. J. B. Fielder. 1,709,716; Apr. 16.
- Welding collar for rail joints. J. Wattmann. 1,732,390; Oct. 22.
- Welding copper-boiler ends. A. H. Trageser and L. Hassinger. 1,733,922; Oct. 29.
- Welding-current-control circuit. H. A. Delano. 1,710,723; Apr. 30.
- Welding, Electric. S. R. Bergman. 1,716,614; June 11.
- Welding, Electric. T. F. Burke. 1,720,662; July 16.
- Welding, Electric. E. Lunn. 1,707,405; Apr. 2.
- Welding, Electric-arc. C. L. Ipsen. 1,728,863; Sept. 17.
- Welding, Electric-arc. J. C. Lincoln. 1,711,151; Apr. 30.
- Welding, Electric-arc. E. Thomason. 1,717,530; June 18.
- Welding, Electric arc. J. M. Weed. 1,740,381; Dec. 17.
- Welding exposed rails. J. Wattmann. 1,729,464; Sept. 24.
- Welding flux. W. B. Miller. 1,741,031; Dec. 24.
- Welding generator. C. J. Holslag. 1,719,112; July 2.
- Welding generator, Arc. J. Polek. 1,705,646; Mar. 19.
- Welding lamp wires, Machine for. A. Lindemann. 1,702,835; Feb. 19.
- Welding, Line. R. E. Wagner and W. E. Laird. 1,738,465; Dec. 3.
- Welding machine. G. E. Cooper. 1,706,842; Mar. 26.
- Welding machine. S. A. Eskilson. 1,730,064; Oct. 1.
- Welding machine. J. K. Mathieu. 1,708,769; Apr. 9.
- Welding machine. H. S. Powell. 1,731,541; Oct. 15.
- Welding machine. E. J. von Henke. 1,724,381; Aug. 13.
- Welding machine, Electric. L. H. Hoffer. 1,716,442; June 11.
- Welding machine, Electric. F. P. McBerty. 1,732,136; Oct. 15.
- Welding machine, Electric. A. M. Stanley and J. E. Sims. 1,708,977; Apr. 16.
- Welding machine, Electric. E. J. von Henke. 1,723,984; Aug. 6.
- Welding machine, Electric spot-. D. Kondakjian. 1,728,616; Sept. 17.
- Welding machine, Electric tube-. J. F. Lawson. 1,709,587; Apr. 16.
- Welding machine or jig, Steel-railroad-crosstie-. E. Eickemeyer. 1,714,906; May 28.
- Welding machine, Pipe-. J. H. Taylor. 1,711,130; Apr. 30.
- Welding machine, Spot-. M. W. Moesta. 1,703,683; Feb. 26.
- Welding machine, Tube-. W. C. Bucknam. 1,708,057; Feb. 19.
- Welding machine, Tube-. F. L. Sessions. 1,722,711; July 30.
- Welding machines, Wire-feeding mechanism for. C. Steenstrup. 1,733,835-6; Oct. 29.
- Welding mechanism, Electric. J. W. Holt. 1,700,408; Jan. 29.
- Welding metal, Apparatus for use in. A. Krebs. 1,728,972; Sept. 24.
- Welding, Metallic arc. J. B. Green. 1,697,864; Jan. 8.
- Welding, Method of and apparatus for electric. F. L. Sessions. 1,732,383; Oct. 22.
- Welding of rails and the like, Alumino-thermic. E. F. Begtrup. 1,741,399; Dec. 31.
- Welding pipe couplings in a continuous operation. Method of and apparatus for electrically. R. Stressau. 1,704,846; Mar. 12.
- Welding pipes. J. F. Lawson. 1,712,507; May 14.
- Welding process. H. G. Spilsbury. 1,727,570; Sept. 10.
- Welding rail joints. C. Stedefeld. 1,704,410; Mar. 5.
- Welding rails. P. Rüggeberg. 1,741,437; Dec. 31.
- Welding rails under traffic. J. H. Deppeler. 1,728,232; Sept. 17.
- Welding rod. J. R. Dawson. 1,728,174; Sept. 17.
- Welding rod. J. B. Green. 1,720,039; July 9.
- Welding rod. J. B. Hawley, jr. 1,709,474; Apr. 16.
- Welding rod, Aluminum-. H. Gilbert. 1,728,052; Sept. 10.
- Welding rod, Nonferrous. A. R. Lytle. 1,716,590; June 11.
- Welding stick. H. W. Knott. 1,704,978; Mar. 12.
- Welding system, Arc. P. P. Alexander. 1,708,072; Apr. 9.
- Welding system, Arc. C. J. Holslag. 1,740,983; Dec. 24.
- Welding system, Arc. J. F. Peters. 1,709,629; Apr. 16.
- Welding the tie plates to steel ties, Apparatus for. L. Kuhl and C. Ritz. 1,732,900; Oct. 22.
- Welding together a head and shell. J. Petty. 1,697,881; Jan. 8.
- Welding tubes, Method of and apparatus for. C. N. Mitchell. 1,731,390; Oct. 15.
- Welding unit and welding. R. O. Berg. 1,716,847; June 11.
- Welding wire wheels. H. Ford. 1,701,843; Feb. 12.
- Welding wires, Electric. W. D. Bumstead and E. A. Aurada. 1,722,195; July 23.
- Well apparatus. F. C. Kelley. 1,737,248; Nov. 26.
- Well apparatus. N. K. Smith. 1,715,576; June 4.
- Well apparatus. N. K. Smith. 1,716,905; June 11.
- Well apparatus. J. B. Sperry. 1,697,482; Jan. 1.
- Well apparatus, Deep-. C. A. Johnstown and J. I. Martin. 1,713,604; May 21.
- Well capper. W. L. Stevenson. 1,727,300; Sept. 3.
- Well casing and method of sinking. G. Evans. 1,733,953; Oct. 29.
- Well casing and strainer. J. P. Lawlor and J. I. Seay. 1,709,222; Apr. 16.
- Well-casing elevator. C. E. Reed. 1,737,893; Dec. 3.
- Well-casing-pulling apparatus. C. E. Watters. 1,709,449; Apr. 16.
- Well cementing. E. V. Crowell. 1,732,791; Oct. 22.
- Well-cementing method and means. W. A. Loomis. 1,716,925; June 11.
- Well-derrick device. T. A. Myers. 1,716,559; June 11.
- Well developer. J. Kinney, jr. 1,699,072; Jan. 15.
- Well drill, Double-cylinder. M. Hardsocge. 1,710,925; Apr. 30.
- Well-drilling rig. E. B. Gurganious. 1,719,765; July 2.
- Well elevator. J. Grant. 1,716,885; June 11.
- Well elevator. J. Grant. 1,728,930; Sept. 24.
- Well elevator, Deep-. J. Grant. 1,716,886; June 11.
- Well for unloading sand boats and the like, Mixing. J. R. Sensibar. 1,737,341; Nov. 26.
- Well mechanism, Oil-. C. P. Howe. 1,698,797; Jan. 15.
- Well-packing device. D. A. Cant. 1,723,600; Aug. 6.
- Well point. T. F. Moore. 1,729,790; Oct. 1.
- Well points, Manufacturing. G. E. Mirfield. 1,709,998; Apr. 23.
- Well reamer. R. O. Pickin. 1,725,299; Aug. 20.
- Well screen. G. Austin. 1,705,848; Mar. 19.
- Well screen. J. F. Maloney and S. P. Farish. 1,729,115; Sept. 24.
- Well screen. J. H. McEvoy, jr. 1,715,856; June 4.
- Well screen and making same, Armored. J. P. Whann. 1,729,197; Sept. 24.
- Well-sealing device, Oil-. E. H. McMahan. 1,735,330; Nov. 12.
- Wells, Apparatus for exhausting. C. A. Anderson. 1,722,552; July 30.
- Wells, Method and apparatus for protecting. E. V. and A. B. Crowell. 1,712,029; May 7.
- Wells, Reamer for. F. L. Scott. 1,723,380; Aug. 6.
- Welt, Finishing. C. R. Carleton. 1,721,856; July 23.
- Welt, Finishing. S. H. Clark. 1,724,454; Aug. 13.
- Welt, Finishing. R. C. Schemmel. 1,719,729; July 2.
- Welt for boots and shoes. W. J. Fallon, jr. 1,714,262; May 21.
- Welt, Goodyear. F. M. Paradise. 1,698,649; Jan. 8.
- Welt mechanism for full-fashioned-knitting machines. K. Howie. 1,706,884; Mar. 26.
- Welt-treating machine. A. W. Matthews and J. F. Williams. 1,724,950; Aug. 20.
- Welting. H. Lyon. 1,723,049; Aug. 6.
- Welting and making the same, Shoe. H. Lyon and L. H. Gilson. 1,708,628; Apr. 9.
- Welting, Beaded. G. L. Runey. 1,723,977; Aug. 6.
- Welting for boots and shoes. H. Lyon. 1,708,627; Apr. 9.
- Welting, Goodyear. H. Lyon. 1,699,979; Jan. 22.
- Welting, Heavy-edge. L. H. Gilson. 1,732,807; Oct. 22.
- Welting, Making. P. W. Greene. 1,732,810; Oct. 22.
- Welting or gimp. B. Silverstein. 1,738,400; Dec. 3.
- Welting, Shoe. H. Lyon. 1,706,624-5; Mar. 26.
- Welting, Two-unit. H. Lyon. 1,729,727; Oct. 1.
- Wheat, Tempering. A. Gillespie. 1,740,892; Dec. 24.
- Wheel: Sec—
- |                         |                       |
|-------------------------|-----------------------|
| Abrading wheel.         | Rim wheel.            |
| Abrasive wheel.         | Sanding wheel.        |
| Automobile wheel.       | Saw wheel.            |
| Balance wheel.          | Scroll wheel.         |
| Ball-bearing wheel.     | Shock-absorber wheel. |
| Buffing wheel.          | Skate wheel.          |
| Car wheel.              | Spring wheel.         |
| Caster wheel.           | Sprocket wheel.       |
| Cushion wheel.          | Steel-spoke wheel.    |
| Demountable wheel.      | Steering wheel.       |
| Deodorizing dust wheel. | Tire wheel.           |
| Disk steel wheel.       | Toy wind wheel.       |
| Disk wheel.             | Traction wheel.       |
| Double sheave wheel.    | Tractor wheel.        |
| Expansible wheel.       | Trolley wheel.        |
| Gear wheel.             | Truck wheel.          |
| Grinding wheel.         | Vehicle wheel.        |
| Hone wheel.             | Water wheel.          |
| Metallic wheel.         | Wind and water wheel. |
| Pneumatic wheel.        | Wind wheel.           |
| Resilient wheel.        |                       |
- Wheel. H. W. Alden. 1,714,290; May 21.
- Wheel. S. Bullum. 1,704,120; Mar. 5.
- Wheel. P. and G. Christia. 1,719,213; July 2.
- Wheel. G. H. Forsyth. 1,733,727; Oct. 29.
- Wheel. J. W. Hobbs. 1,727,205; Sept. 3.



- Wheel. J. Soss. 1,705,508; Mar. 19.  
 Wheel. H. Soss. 1,705,509; Mar. 19.  
 Wheel. C. A. Sullivan. 1,736,279; Nov. 19.  
 Wheel adjustment for plows, Furrow-. W. S. Graham. 1,737,879; Dec. 3.  
 Wheel-aligning gauge. I. W. Munden. 1,701,050; Feb. 5.  
 Wheel-alignment indicator, Vehicle. I. A. Weaver. 1,717,131; June 11.  
 Wheel and axle, Driving. S. M. Vauclain. 1,733,035; Oct. 22.  
 Wheel and axle, Integral. M. Rivkin. 1,738,393; Dec. 3.  
 Wheel and brake, Vehicle. A. J. Chapin. 1,698,011; Jan. 8.  
 Wheel and demountable rim, Metallic. J. G. Swain. 1,697,796; Jan. 1.  
 Wheel and making the spokes, Sheet metal spoked. J. H. Wagenhorst. 1,722,649; July 30.  
 Wheel and rail for the purpose of enabling vehicles to be used on roads or railways. M. N. Ridley. 1,716,004; June 4.  
 Wheel and tire, Vehicle. R. Vogel. 1,734,280; Nov. 5.  
 Wheel-balancing apparatus. J. P. Lannen. 1,729,947; Oct. 1.  
 Wheelbarrow. I. M. Askren. 1,701,486; Feb. 5.  
 Wheelbarrow. J. Burns. 1,727,271; Sept. 3.  
 Wheelbarrow. J. Cwik. 1,735,527; Nov. 12.  
 Wheel block. W. W. Blakely. 1,712,644-5; May 14.  
 Wheel bodies, Producing. I. S. Crissman. 1,711,833; May 7.  
 Wheel brake, Front-. E. R. Evans. 1,728,180; Sept. 17.  
 Wheel brake, Front-. C. L. White. 1,717,176; June 11.  
 Wheel brake, Vehicle. N. A. Christensen. 1,715,407; June 4.  
 Wheel breaker. F. K. Vial and D. W. Starkey. 1,703,127; Feb. 26.  
 Wheel building, Wire-spoke-. J. V. Pugh. 1,724,312; Aug. 13.  
 Wheel chair. A. G. Hackney. 1,710,821; Apr. 30.  
 Wheel cleaner. H. Knutz. 1,719,271; July 2.  
 Wheel construction. R. W. Disbro. 1,737,360; Nov. 26.  
 Wheel construction, Air-cooled-. F. U. Winchester. 1,730,490; Oct. 8.  
 Wheel construction, Front-. E. E. Gurney. 1,713,963; May 21.  
 Wheel construction, Front-. J. W. Sullenger. 1,721,606; July 23.  
 Wheel construction, Vehicle. J. I. Boggs. 1,723,598; Aug. 6.  
 Wheel-controlling device for side-delivery rakes, Caster-. E. Mowry. 1,734,393; Nov. 5.  
 Wheel device, Antitheft spare-. R. W. Johnson. 1,741,314; Dec. 31.  
 Wheel disks, Forming. E. A. Nelson. 1,698,373; Jan. 8.  
 Wheel disks to rims, Securing. J. H. Hunt. 1,741,716; Dec. 31.  
 Wheel dog. B. Stockwell. 1,721,646; July 23.  
 Wheel-dressing mechanism. G. A. De Vlieg. 1,715,122; May 28.  
 Wheel drive, Front-. A. J. Bayley. 1,734,709; Nov. 5.  
 Wheel drive mechanism, Front-. H. Smith. 1,720,064; July 9.  
 Wheel drive, Multiple-. J. R. Junkin. 1,713,133; May 14.  
 Wheel for juvenile vehicles. B. J. Anderson. 1,716,750; June 11.  
 Wheel for motor vehicles. J. A. Granstedt. 1,711,887; May 7.  
 Wheel for reversible rotary machines and particularly for hydraulic turbines, Movable. A. Hugenin. 1,716,134; June 4.  
 Wheel for steamers, Paddle. F. Süßerkrüb. 1,713,406; May 14.  
 Wheel for vehicles, Pneumatic. C. Llewellyn. 1,710,265; Apr. 23.  
 Wheel hold down. E. S. Evans and C. L. Snyder. 1,739,354; Dec. 10.  
 Wheel hub and forming the same. W. N. Booth. 1,703,714; Feb. 26.  
 Wheel hub, Molding. F. A. Thomann. 1,731,445; Oct. 15.  
 Wheel-hub shells, Forming. E. A. Nelson. 1,704,369; Mar. 5.  
 Wheel-lifting device. H. A. Alltop. 1,735,713; Nov. 12.  
 Wheel loader. W. W. Reeder. 1,736,367; Nov. 19.  
 Wheel lock, Automobile. G. A. Gillen. 1,738,699; Dec. 10.  
 Wheel manufacture, Metal. E. H. Arnold. 1,739,495; Dec. 17.  
 Wheel mounting. A. F. Masury. 1,735,404; Nov. 12.  
 Wheel mounting. D. M. White. 1,697,214; Jan. 1.  
 Wheel mounting and demounting press. W. H. Derbyshire, jr. 1,707,905; Apr. 2.  
 Wheel mounting for mine cars. G. E. Edmunds. 1,708,608; Apr. 9.  
 Wheel mounting for motor vehicles, Front-. A. Duresen. 1,731,374; Oct. 15.  
 Wheel parts, Making. D'O. M. White. 1,709,163; Apr. 16.  
 Wheel pilot, Railway. E. E. Ritenour. 1,700,645; Jan. 29.  
 Wheel pilot, Railway-. E. E. Ritenour. 1,742,148; Dec. 31.  
 Wheel power, Band-. J. Reid. 1,716,088; June 4.  
 Wheel production, Metal-. C. Schenck and L. Fine. 1,736,329; Nov. 19.  
 Wheel puller, Automobile. J. F. Howarth. 1,698,755; Jan. 15.  
 Wheel remover. F. J. Andel. 1,704,160; Mar. 5.  
 Wheel remover. F. J. Andel. 1,726,532; Sept. 3.  
 Wheel remover. C. W. Godman. 1,705,011; Mar. 12.  
 Wheel remover. O. B. Green. 1,704,600; Mar. 5.  
 Wheel rim. F. W. Baker. 1,715,890; June 4.  
 Wheel rim and tire structure. J. R. Gammeter. 1,702,647; Feb. 19.  
 Wheel-rim assemblies, Making. J. R. Gammeter. 1,702,648; Feb. 19.  
 Wheel rim, Auxiliary. P. W. Palm. 1,717,732; June 18.  
 Wheel rim, Demountable. T. F. Bowler. 1,707,208; Mar. 26.  
 Wheel rim, Demountable. D. F. Graham. 1,727,309; Sept. 3.  
 Wheel rim, Detachable. L. Härter. 1,725,733; Aug. 20.  
 Wheel rim, Detachable. Z. Littman. 1,718,697; June 25.  
 Wheel rim, Detachable. G. Prodromos. 1,732,590; Oct. 22.  
 Wheel rims, Making car-. A. T. Keller. 1,713,699; May 21.  
 Wheel scraper. G. S. Donham. 1,704,465; Mar. 5.  
 Wheel slide and adjusting mechanism therefor, Grinding-. A. M. Drake. 1,734,080; Nov. 5.  
 Wheel structure. J. W. Jackson. 1,706,167; Mar. 19.  
 Wheel structure. J. G. Swain. 1,718,611-12; June 25.  
 Wheel structure, Multiple-. E. A. Nelson. 1,721,278; July 16.  
 Wheel-suspension means for motor vehicles. G. Fornaca. 1,711,881; May 7.  
 Wheel-truing fixture. C. L. Ott. 1,734,914; Nov. 5.  
 Wheel with concentric rim, Vehicle. F. W. Baker. 1,701,469; Feb. 5.  
 Wheeled vehicle. J. Heidenstrom. 1,725,188; Aug. 20.  
 Wheels, Assembling resilient. J. W. Carnahan. 1,730,559; Oct. 8.  
 Wheels, Attachment for vehicle. J. C. Sheller. 1,738,453; Dec. 3.  
 Wheels, Extricating and nonskid device for vehicles. J. Frank. 1,733,871; Oct. 29.  
 Wheels, Forming metal. E. H. Arnold. 1,719,745; July 2.  
 Wheels, Forming spoked vehicle. W. N. Booth. 1,725,333; Aug. 20.  
 Wheels, Making. H. A. Stoddard. 1,716,013; June 6.  
 Wheels, Making. C. M. Watrous. 1,700,004; Jan. 22.  
 Wheels, Making forged-steel. C. R. Jernberg. 1,710,058; Apr. 23.  
 Wheels, Making metal. J. W. Smith. 1,714,144; May 21.  
 Wheels, Making rubber-tired. J. H. Wagenhorst. 1,697,438; Jan. 1.  
 Wheels, Making sheet-metal. W. R. Stine. 1,698,702; Jan. 8.  
 Wheels, Making tubular-spoked. J. H. Wagenhorst. 1,737,780; Dec. 3.  
 Wheels, Making vehicle. A. L. Putnam. 1,741,478; Dec. 31.  
 Wheels, Manufacture of. J. R. Allan. 1,712,805; May 14.  
 Wheels, Manufacture of vehicle. A. E. Owen and R. W. Downs. 1,700,072; Jan. 22.  
 Wheels, Manufacturing car. C. R. Day. 1,735,423; Nov. 12.  
 Wheels, Producing. C. M. Watrous. 1,700,003; Jan. 22.  
 Wheels, such as the road wheels of vehicles, Apparatus for use in the manufacture of. C. E. Goodyear. 1,706,288; Mar. 19.  
 Whipper. G. A. Herron. 1,713,828; May 21.  
 Whipper. R. C. Miner. 1,722,104; July 23.  
 Whipper for converting liquids into foam. H. A. Wetzel. 1,722,187; July 23.  
 Whipping device. E. C. Brull. 1,726,977; Sept. 3.  
 Whipstock. H. E. Turner. 1,715,686; June 4.  
 Whipstocks, Device for orientating. W. H. Geiss. 1,734,033; Nov. 5.  
 Whistle. A. S. Agnew. 1,720,813; July 16.  
 Whistle. E. R. Emerson and F. M. Dever. 1,703,028; Feb. 19.  
 Whistle. W. L. Rutkowski. 1,735,697; Nov. 12.  
 Whistle, Automatic. M. Flanders. 1,712,339; May 7.  
 Whistle cup. C. B. Fowler. 1,739,451; Dec. 10.  
 Whistle, Locomotive. J. G. Blunt. 1,702,928; Feb. 19.  
 Whistle, Signal. C. Wainwright. 1,723,902; Aug. 6.  
 Whistles, Controlling mechanism for locomotive. H. Vissering. 1,705,627; Mar. 19.  
 Wick and making the same. B. Muller-Thym. 1,719,679; July 2.  
 Wick for liquid-fuel burners and making same. L. A. Cocklin. 1,738,138; Dec. 3.  
 Width maintainer. E. T. Ferngren. 1,739,959; Dec. 17.  
 Willow. C. Schofield. 1,738,396; Dec. 3.  
 Winch. J. B. Kinser. 1,710,774; Apr. 30.  
 Winch. H. S. Myers. 1,720,562; July 9.  
 Winch attachment. W. S. Langford. 1,714,428; May 21.  
 Winch mechanism. W. C. Anthony. 1,700,426; Jan. 29.  
 Winch mechanism. W. C. Anthony and C. H. Benedict. 1,700,191; Jan. 29.  
 Wind and water wheel. F. Schuh. 1,739,866; Dec. 17.  
 Wind cone. J. S. Barton. 1,736,109; Nov. 19.  
 Wind deflector. H. D. Geyer. 1,718,288; June 25.  
 Wind-driven generator. H. E. Bucklen. 1,699,949; Jan. 22.  
 Wind motor. J. D'Asseler. 1,713,866; May 21.  
 Wind motor. F. R. Burch. 1,707,507; Apr. 2.  
 Wind motor. W. R. Oliphant. 1,714,808; May 28.  
 Wind motor. M. J. Peterson. 1,718,304; June 25.  
 Wind motor. E. Rokita. 1,720,402; July 9.  
 Wind-power mechanism. L. Kolozsy. 1,712,149; May 7.  
 Winder. H. D. Colman and B. A. Peterson. 1,727,534; Sept. 10.  
 Winder. H. D. Colman and B. A. Peterson. 1,727,749; Sept. 10.



- Winder-cop former. L. Zeni. 1,734,510; Nov. 5.  
Winder drive. J. W. Corey. 1,720,118; July 9.  
Winding apparatus. L. Stastney. 1,739,265; Dec. 10.  
Winding apparatus, Paper-. A. Aldrich. 1,730,552; Oct. 8.  
Winding bobbins or the like, Reciprocating guide motions for directing yarn or other material to. F. W. Schubert. 1,728,448; Sept. 17.  
Winding cinematographic or photographic film bands, Apparatus for. J. Halla. 1,716,774; June 11.  
Winding coils. S. C. Wiley. 1,722,862; July 30.  
Winding device. H. Schlaich. 1,710,634; Apr. 23.  
Winding device for timepieces. I. Ditesheim. 1,707,906; Apr. 2.  
Winding device, Wire-. N. L. Kuhlmann. 1,721,157; July 16.  
Winding electric condensers, Apparatus for. G. Nauk. 1,717,243; June 11.  
Winding flexible material. J. A. Cameron. 1,707,047; Mar. 26.  
Winding machine. J. A. Cameron. 1,719,830; July 9.  
Winding machine. M. B. Grout. 1,699,841; Jan. 22.  
Winding machine. C. C. Jessen. 1,727,884; Sept. 10.  
Winding machine. C. H. Jones and E. R. Swanson. 1,728,413; Sept. 17.  
Winding machine. L. E. Meyer. 1,737,258; Nov. 26.  
Winding machine. K. Meyer-Gaus. 1,711,279; Apr. 30.  
Winding machine. A. J. Peek. 1,737,269; Nov. 26.  
Winding machine. C. W. Valentine. 1,739,931; Dec. 17.  
Winding machine, Automatic. E. J. and W. G. Abbott, jr. 1,700,425; Jan. 29.  
Winding machine, Bobbin-. F. A. Lazenby. 1,700,371; Jan. 29.  
Winding machine, Cord-fabric-. H. N. Wayne. 1,719,738; July 2.  
Winding machine, Wire-. V. Calabrese. 1,704,166; Mar. 5.  
Winding mechanism. J. Clayton. 1,725,443; Aug. 20.  
Winding mechanism, Device on. J. Mettler. 1,730,674; Oct. 8.  
Winding works. P. Leybold. 1,717,935; June 18.  
Winding yarn and the like, Device for. A. B. Collingbourne. 1,698,153; Jan. 8.  
Winding yarn and the like, Device for. A. B. Collingbourne. 1,715,448; June 4.  
Windlass. C. Andrade, jr. 1,719,744; July 2.  
Windmill. A. A. Adams. 1,708,374; Apr. 9.  
Windmill. G. R. Bruce. 1,718,682; June 25.  
Windmill. P. M. González and J. A. Silva. 1,722,845; July 30.  
Windmill. F. R. Potts. 1,707,924; Apr. 2.  
Windmill. G. E. Steenrod. 1,701,512; Feb. 12.  
Windmill. G. E. Steenrod. 1,702,281; Feb. 19.  
Windmill generator. C. E. Sargent. 1,707,235; Apr. 2.  
Wind motor. O. J. Nitardy. 1,741,247-8; Dec. 31.  
Wind motor and ventilator. H. Diebel. 1,738,526; Dec. 10.  
Window. H. W. Abbott. 1,700,396; Jan. 29.  
Window. A. H. Ballard. 1,700,919; Feb. 5.  
Window. H. E. W. Bruce. 1,708,008; Apr. 9.  
Window. B. Clavette. 1,719,755; July 2.  
Window. J. J. Donovan. 1,711,927; May 7.  
Window. B. J. Goldsmith and E. Koeb. 1,716,044; June 4.  
Window. R. B. Marschke. 1,741,998; Dec. 31.  
Window. A. Piquerez. 1,734,530; Nov. 5.  
Window. W. T. Price. 1,733,694; Oct. 29.  
Window. E. D. Ross. 1,741,479; Dec. 31.  
Window. J. H. Siedenburgh. 1,718,838; June 25.  
Window, Adjustable. F. L. Stanciliff. 1,714,575; May 28.  
Window adjuster, Casement-. J. C. Stanzione. 1,727,792; Sept. 10.  
Window adjuster, Casement-. I. N. Van Sickles. 1,712,973; May 14.  
Window and coal hopper, Combined. F. Mesker. 1,739,514; Dec. 17.  
Window and curtain roller construction. R. T. Axe. 1,739,203; Dec. 10.  
Window and door construction. B. J. Goldsmith and E. Koeb. 1,716,043; June 4.  
Window and door frame. F. C. Andersen. 1,708,599; Apr. 9.  
Window and lock actuating device for automobiles. S. W. Nicholson. 1,737,118; Nov. 26.  
Window and screen structure. Storm. H. J. Ruchie. 1,699,079; Jan. 15.  
Window appliance. R. S. Frary. 1,697,951; Jan. 8.  
Window, Arched. E., sr., A., and E. Bricker, jr. Des. 77,738; Feb. 19.  
Window assembly. B. J. Goldsmith and E. Koeb. 1,714,978; May 28.  
Window assembly. M. H. Toncray. 1,732,291; Oct. 22.  
Window attachment. C. B. Gilmore. 1,740,586; Dec. 24.  
Window attachment for envelope-folding machines. R. A. Nelson. 1,737,608; Dec. 3.  
Window-blind construction. W. C. Paine. 1,701,695; Feb. 12.  
Window box. J. C. Young. 1,742,051; Dec. 31.  
Window bracket, Reversible. H. W. Valentine. 1,715,965; June 4.  
Window frame. S. L. Brown. 1,739,575; Dec. 17.  
Window, Casement. A. M. Lane. 1,726,186; Aug. 27.  
Window, Casement. J. Lindsay. 1,710,171; Apr. 23.  
Window, Casement. H. Seibold. 1,721,641; July 23.  
Window channel. C. S. Applas. 1,715,733; June 4.  
Window channel. B. Freyer. 1,698,494; Jan. 8.  
Window check, Reversible. L. B. Taylor. 1,722,774; July 30.  
Window. Chicken-house. L. T. Petersen. 1,737,515; Nov. 26.  
Window clarifier. J. B. Walker. 1,720,532; July 9.  
Window cleaner. K. Horiata. 1,716,171; June 4.  
Window cleaner. F. Kilberg. 1,720,481; July 9.  
Window-cleaner appliance. R. Nichols. 1,712,579; May 14.  
Window-cleaning device, Safety. V. Scharschmidt. 1,708,594; Apr. 9.  
Window construction. W. J. Behlmer. 1,726,798; Sept. 3.  
Window construction. G. C. Bishop. 1,703,092; Feb. 26.  
Window construction. F. Borecky. 1,721,852; July 23.  
Window construction. H. E. Bothe. 1,723,326; Aug. 6.  
Window construction. J. J. Bridler. 1,740,724; Dec. 24.  
Window construction. A. Charlebois. 1,739,060; Dec. 10.  
Window construction. G. De Mercurio. 1,718,119; June 18.  
Window construction. F. Ehrsam. 1,715,909; June 4.  
Window construction. A. H. Fisher. 1,730,001; Oct. 1.  
Window construction. J. J. Gillman. Re17,339; July 30.  
Window construction. B. J. Goldsmith and E. Koeb. 1,704,042; Mar. 5.  
Window construction. B. J. Goldsmith and E. Koeb. 1,706,027; Mar. 19.  
Window construction. F. F. Isbaner and P. A. Dash. 1,713,831; May 21.  
Window construction. G. W. Lancaster. 1,727,470; Sept. 10.  
Window construction. B. A. Morton. 1,730,471; Oct. 8.  
Window construction. S. W. Nicholson. 1,713,088; May 14.  
Window construction. F. J. Plym. 1,736,169; Nov. 19.  
Window construction. M. P. Rumney. 1,702,393; Feb. 19.  
Window construction. M. J. Siegel. 1,726,590; Sept. 3.  
Window construction. M. Silver. 1,702,094; Feb. 12.  
Window construction. F. E. Webb. 1,736,638; Nov. 19.  
Window construction. W. J. Wesseler. 1,727,188; Sept. 3.  
Window construction. F. A. Yeager. Re17,496; Nov. 19.  
Window construction, Automobile body. J. Ledwinka. 1,731,629; Oct. 15.  
Window construction, Double-hung-. T. R. Treiber. 1,727,454; Sept. 10.  
Window construction, Metal. J. E. Dennis. 1,710,724; Apr. 30.  
Window construction, Railroad-car-. J. L. Mohun and H. Piesch. 1,721,828; July 23.  
Window construction, Railway-car-. J. L. Mohun and H. Piesch. 1,725,365; Aug. 20.  
Window-control mechanism. S. W. Nicholson. 1,714,723; May 28.  
Window display. E. Schwartz. 1,696,977; Jan. 1.  
Window fitting. L. J. Gilchrist. 1,725,451; Aug. 20.  
Window fixture. W. Anderson. 1,717,955; June 18.  
Window fixture. A. Vandermark. 1,708,857; Apr. 9.  
Window fly stop. F. Speranza. 1,734,886; Nov. 5.  
Window for automobiles, Screened ventilating. H. C. Hart. 1,739,029; Dec. 10.  
Window for furnaces, Observation. R. P. Vastine. 1,717,637; June 18.  
Window frame. F. C. Andersen, R. L. Nash, and N. T. Roland. 1,735,559; Nov. 12.  
Window frame. R. Cotton. 1,721,770; July 23.  
Window frame. E. J. Hardtke. 1,714,599; May 28.  
Window frame. W. P. Orth. 1,712,117; May 7.  
Window frame. H. J. Schlacks. 1,724,374; Aug. 13.  
Window frame. E. W. Storms. 1,708,556-7; Apr. 9.  
Window frame, All-metal screen-carrying. E. F. Langer. 1,698,020; Jan. 8.  
Window frame, Curtain-. A. S. Campbell. 1,723,466; Aug. 6.  
Window-frame structure. G. H. Brown. 1,706,347; Mar. 19.  
Window frames in buildings, Fitting of. J. F. Benson. 1,722,172; July 23.  
Window friction adjuster. E. J. Sibley. 1,713,561; May 21.  
Window friction adjuster, Casement-. E. J. Sibley. 1,730,538; Oct. 8.  
Window glass. W. W. Wood. 1,740,278; Dec. 17.  
Window-glass channel. E. W. M. Bailey. 1,714,256; May 21.  
Window grating. I. Kemp. 1,730,151; Oct. 1.  
Window guide. Frictional-contact. H. D. Randall. 1,702,270; Feb. 19.  
Window guides, Making. R. T. Griffiths. 1,708,059; Apr. 9.  
Window, Hinged. L. Peschkes. 1,739,257; Dec. 10.  
Window holder for automobile cabs, Wing. T. H. Butler. 1,741,500; Dec. 31.  
Window, Iron-frame. V. Gillar. 1,703,230; Feb. 26.  
Window joint and making the same. F. J. Plym. 1,714,188; May 21.  
Window-lifting device. S. B. Strang. 1,726,867; Sept. 3.  
Window, Metal. J. H. Byrnes. 1,725,730; Aug. 20.  
Window, Multiple-paned. R. H. Starr. 1,728,984; Sept. 24.  
Window-operating apparatus. J. E. Sersté. 1,720,063; July 9.  
Window-operating device. S. W. Nicholson. 1,737,120; Nov. 26.  
Window operator, Casement-. E. T. Haun. 1,714,907; May 28.



- Window or sash, Revolving. S. J. Taylor. 1,707,101; Mar. 26.
- Window platform. F. W. King. 1,711,354; Apr. 30.
- Window-raising mechanism. R. J. Hansen. 1,740,733; Dec. 24.
- Window regulator. J. W. Fitzgerald. 1,708,877; Apr. 9.
- Window regulator. B. J. Goldsmith and E. Koeb. 1,705,110; Mar. 12.
- Window regulator. O. F. Graebner. 1,710,090; Apr. 23.
- Window regulator. G. E. Grimm. 1,710,091; Apr. 23.
- Window regulator. H. A. Myers. 1,719,379; July 2.
- Window regulator. A. T. Nelson. 1,718,484; June 25.
- Window regulator. S. W. Nicholson. 1,696,921; Jan. 1.
- Window regulator. S. W. Nicholson. 1,699,204; Jan. 15.
- Window regulator. S. W. Nicholson. 1,734,225; Nov. 5.
- Window-regulator connection. F. J. Fauser and F. M. Edgar. 1,736,703; Nov. 19.
- Window regulator gear members and apparatus therefor, Forming. M. G. Hanson. 1,734,903; Nov. 5.
- Window regulator handle, Door-. W. C. Devereaux. Des. 77,749; Feb. 19.
- Window-regulator handle or similar article, Automobile. W. Schnell. Des. 78,947-8; July 9.
- Window-regulator mechanism. H. B. Haskins. 1,721,907; July 23.
- Window, Reversible. G. W. Linn. 1,730,222; Oct. 1.
- Window sash balance, Sliding and swinging. R. Aversa. 1,701,254; Feb. 5.
- Window-sash construction. O. M. Edwards and H. A. Cronmiller. 1,704,314; Mar. 5.
- Window-sash holder. E. R. Draver. 1,702,819; Feb. 19.
- Window sash, Reinforced metal. H. A. Cronmiller. 1,703,479; Feb. 26.
- Window sashes, Securer for. E. A. Nightingale. 1,718,661; June 25.
- Window screen. L. J. Baribault. 1,732,628; Oct. 22.
- Window screen. T. C. Casha and J. T. Harris. 1,730,757; Oct. 8.
- Window screen. A. J. Dodge and J. C. Pettibone. 1,733,652; Oct. 29.
- Window screen. F. Dominick. 1,705,442; Mar. 12.
- Window screen. H. H. Everhard. 1,708,363; Apr. 9.
- Window screen. O. A. Fritz. 1,718,132; June 18.
- Window screen. J. Imbruglia. 1,719,980; July 9.
- Window screen. J. T. Johnson. 1,731,668; Oct. 15.
- Window screen. T. and P. G. Johnson. 1,698,885; Jan. 15.
- Window screen. W. M. Koons. 1,729,348; Sept. 24.
- Window screen. S. F. McConnell. 1,708,770; Apr. 9.
- Window screen. G. H. and R. A. Norquist. 1,705,132; Mar. 12.
- Window screen. M. Pollack. 1,737,944; Dec. 3.
- Window screen. J. J. Ritter. 1,719,236; July 2.
- Window screen. D. Rubin. 1,700,909; Feb. 5.
- Window screen. P. Warnick. 1,713,989; May 21.
- Window screen. J. Watson. 1,739,429; Dec. 10.
- Window screen. F. S. Zaisser. 1,723,455; Aug. 6.
- Window screen, Adjustable. H. H. Everhard. 1,704,039; Mar. 5.
- Window screen, Adjustable. J. E. King, jr. 1,697,768; Jan. 1.
- Window screen, Adjustable. E. D. Mosbacher. 1,722,854; July 30.
- Window screen, Adjustable metal. P. J. A. Hammill. 1,735,501; Nov. 12.
- Window-screen clamp. A. K. Anderson. 1,702,395; Feb. 19.
- Window-screen construction, Rolling-. H. Dixon. 1,730,649; Oct. 8.
- Window screen, Extensible. M. Gresak. 1,735,458; Nov. 12.
- Window-screen fixture. E. T. Berge. 1,740,960; Dec. 24.
- Window screen, Metal. E. R. Galley. 1,736,075; Nov. 19.
- Window screen, Metal. H. Higgin. 1,733,877; Oct. 29.
- Window screen, Rolling. G. F. Sagers. 1,738,925; Dec. 10.
- Window screen, Roll-up. J. F. Cox, A. A. Thornton, D. W. Carroll, and W. Stoveken. 1,707,600; Apr. 2.
- Window screen, Vehicle. W. F. Spreiter. 1,697,092; Jan. 1.
- Window-shade-mounting means. A. H. Meckstroth. 1,726,273; Aug. 27.
- Window-shade pull. C. A. Scheif. 1,715,009; May 28.
- Window, Signal. D. Gern. 1,721,223; July 16.
- Window, Sliding. E. A. Hellstrand. 1,728,344; Sept. 17.
- Window stay. T. P. Eustege. 1,732,328; July 30.
- Window stay. E. J. Sibley. 1,720,539; Oct. 8.
- Window stop. C. Burhenne. 1,715,590; June 4.
- Window stop. M. Shapiro. 1,741,252; Dec. 31.
- Window structure. S. S. Beman. 1,725,559; Aug. 20.
- Window structure. C. Sattler and H. B. Haskins. 1,700,238-9; Jan. 29.
- Window structure, Sliding-. R. L. Worthington. 1,704,453; Mar. 5.
- Window-supporting device, Releasable. V. L. Sullivan. 1,711,975; May 7.
- Window-tensioning device. E. E. Smith. 1,726,002; Aug. 27.
- Window. Vehicle. B. J. Goldsmith and E. Koeb. 1,706,026; Mar. 19.
- Window ventilator. E. B. Dooley. 1,721,434; July 16.
- Window ventilator. E. J. Ney. 1,734,641; Nov. 5.
- Window ventilator. F. Opey. 1,698,483; Jan. 8.
- Window ventilator. J. C. Robichaud. 1,716,324; June 4.
- Window ventilator. J. W. Runge. 1,709,491; Apr. 16.
- Window ventilator. J. Walker. 1,725,688; Aug. 20.
- Window ventilator frame. H. G. Walker. 1,722,722; July 30.
- Window-washing device. J. Patraszewski. 1,714,810; May 28.
- Window-weatherproofing device and screen hanger. J. T. Hickman. 1,738,183; Dec. 3.
- Window, Wicket. C. E. Grant. 1,697,685; Jan. 1.
- Windows, Device for swinging double-hung. W. J. Blake. 1,736,962; Nov. 26.
- Windows, Joining member for automobile. H. M. Hood. 1,727,771; Sept. 10.
- Windows, Operating casement. E. P. Harris. 1,713,081; May 14.
- Windows, Wind and rain deflector for. W. I. Clements. 1,732,082; Oct. 15.
- Wind scoop. H. F. Norton. 1,737,610; Dec. 3.
- Windshield. L. C. Ament. 1,720,460; July 9.
- Windshield. F. A. Dillingham. 1,699,835; Jan. 22.
- Windshield. L. A. Fill. 1,699,285; Jan. 15.
- Windshield. P. N. Landine. 1,716,858; June 11.
- Windshield. O. L. Prime. 1,714,135; May 21.
- Windshield. W. S. Pritchard. 1,706,540; Mar. 26.
- Windshield. W. S. Pritchard. 1,732,417; Oct. 22.
- Windshield. L. Saives. 1,736,940; Nov. 26.
- Windshield-adjusting device. L. A. Mulligan. 1,702,793; Feb. 19.
- Windshield and the like. J. A. Faguy. 1,741,562; Dec. 31.
- Windshield attachment. R. W. Herber. 1,733,408; Oct. 29.
- Windshield attachment. A. W. Larimore. 1,704,897; Mar. 12.
- Windshield, Automobile. R. O. Myers. 1,699,620; Jan. 22.
- Windshield, Automobile door. F. S. Spring. 1,706,502; Mar. 26.
- Windshield clamp. F. B. Herriott. 1,710,732; Apr. 30.
- Windshield cleaner. H. Abernethy. 1,717,904; June 18.
- Windshield cleaner. F. Creighton. 1,699,049; Jan. 15.
- Windshield cleaner. F. G. and W. M. Folberth. 1,701,105; Feb. 5.
- Windshield cleaner. F. G. and W. M. Folberth. 1,722,568; July 30.
- Windshield cleaner. A. Formoso. 1,729,069; Sept. 24.
- Windshield cleaner. M. Garbell. 1,739,896; Dec. 17.
- Windshield cleaner. A. Gustafson. 1,697,911; Jan. 8.
- Windshield cleaner. J. Londino. 1,733,546; Oct. 29.
- Windshield cleaner. A. J. Maertins. 1,724,948; Aug. 20.
- Windshield cleaner. W. C. Martin. 1,706,125; Mar. 19.
- Windshield cleaner. W. C. Martin. 1,728,189; Aug. 6.
- Windshield cleaner. J. R. Oishei. 1,697,136; Jan. 1.
- Windshield cleaner. R. L. Parks. 1,713,710; May 21.
- Windshield cleaner. C. H. Quackenbush. 1,718,760; June 25.
- Windshield cleaner. R. A. Rodrick. 1,712,717; May 14.
- Windshield cleaner. C. H. Stedfeld. Re17,535; Dec. 24.
- Windshield cleaner. N. H. Williams and H. Mittermeir. 1,725,436; Aug. 20.
- Windshield cleaner, Automatic. E. C. Horton and H. Hueber. 1,719,660; July 2.
- Windshield cleaner, Automatic. H. Hueber. 1,697,358; Jan. 1.
- Windshield cleaner, Automatic. H. Hueber. 1,716,135; June 4.
- Windshield cleaner, Automatic. J. R. Oishei. 1,712,160; May 7.
- Windshield cleaner, Automatic. J. R. Oishei and H. Hueber. 1,738,311; Dec. 3.
- Windshield cleaner, Parking. D. C. Schilling. 1,730,827; Oct. 8.
- Windshield cleaner, Reciprocatory automatic. J. R. Oishei. 1,722,535; July 30.
- Windshield-cleaning means. J. W. Anderson. 1,730,342; Oct. 8.
- Windshield-control device. J. R. King. 1,733,377; Oct. 29.
- Windshield, Convertible glare and auxiliary. F. T. McCahill. 1,701,383; Feb. 5.
- Windshield, Double. W. Nielsen. 1,703,355; Feb. 26.
- Windshield for motor cycles. A. U. Premont. 1,729,086; Sept. 24.
- Windshield for motor vehicles. H. F. L. J. Rocheron. 1,719,783; July 2.
- Windshield, Full-vision. W. E. B. Hasselkus. 1,728,240; Sept. 17.
- Windshield heater. G. H. Beckmann. 1,741,968; Dec. 31.
- Windshield heater. H. S. Bergdoll. 1,700,785; Feb. 5.
- Windshield heater. M. Good. 1,719,264; July 2.
- Windshield heater. N. K. Isaak. 1,741,058; Dec. 24.
- Windshield heater. W. G. Mingo and W. B. Rich. 1,712,154; May 7.
- Windshield heater, Electric. A. B. Cross and W. H. Frazier. 1,725,732; Aug. 20.
- Windshield operator. A. T. Potter. 1,699,750; Jan. 22.
- Windshield operator. A. T. Potter. 1,730,899; Oct. 8.
- Windshield protector. C. W. Smith. 1,716,467; June 11.
- Windshield regulator. N. A. Schassberger. 1,730,787; Oct. 8.
- Windshield-regulator mechanism. W. Marshall and C. W. Behnke. 1,739,726; Dec. 17.
- Windshield screen. E. S. Dockery. 1,702,963; Feb. 19.
- Windshield sunshade, Adjustable. C. E. Leonard. 1,700,171; Jan. 29.
- Windshield weather strip. R. F. Anderson. 1,706,597; Mar. 26.
- Windshield wiper. M. J. Doner. 1,725,258; Aug. 20.
- Windshield wiper. J. T. Sibley. 1,700,777; Feb. 5.



- Windshields, Antifrost device for. H. H. Montgomery. 1,740,193; Dec. 17.
- Windshields, Clear-vision device for. R. G. McKee. 1,702,877; Feb. 19.
- Windshields, Glare preventer for automobile. G. W. Pearson. 1,731,172; Oct. 8.
- Windshields, Making. B. M. Fine. 1,698,262; Jan. 8.
- Windshields, Wind and rain deflector for. W. I. Clements. 1,729,566; Sept. 24.
- Wind-up mechanism for bias cutters. R. Iredell and I. J. Remark. 1,724,877; Aug. 13.
- Wind wheel. G. W. Pedley. 1,709,229; Apr. 16.
- Wind wheel and method of making. T. M. Samour. 1,724,807; Aug. 13.
- Wing box. L. Staiger. 1,716,912; June 4.
- Wing, Folding. F. R. Weymouth. 1,723,962; Aug. 6.
- Wing for aeroplane, Adjustable. J. C. Bankston. 1,710,137; Apr. 23.
- Wing for flying machines. A. Soldenhoff. 1,729,970; Oct. 1.
- Wing surface used in aeronautics. G. Delage. 1,729,210; Sept. 24.
- Wings to be brought in use on the departure and on the landing of high-speed aeroplanes, Auxiliary and movable. F. O. Conill. 1,706,956; Mar. 26.
- Wiper and fluid motor therefor, Windshield. B. B. Holmes and H. F. Parker. 1,731,048; Oct. 8.
- Wiper and lather receptacle, Razor. O. Dick. 1,705,004; Mar. 12.
- Wiper and the like, Windshield. D. A. McConnell. 1,725,405; Aug. 20.
- Wiper arm for windshield cleaners. H. O. Storms. 1,724,530; Aug. 13.
- Wiper attachment, Windshield. S. Vernet. 1,717,076; June 11.
- Wiper, Automatic windshield. W. F. Born. 1,734,937; Nov. 5.
- Wiper for metal-coating machines. W. A. Painter. 1,740,114; Dec. 17.
- Wiper for power plate printing, Cloth. C. Hawkins. 1,736,402; Nov. 19.
- Wiper, Gauge-rod. D. W. Wolf. 1,719,037; July 2.
- Wiper, Heat-projecting windshield. J. L. Smith and R. A. Dininger. 1,718,802; June 25.
- Wiper mechanism. H. Behner. 1,714,586; May 28.
- Wiper, Window. R. W. Anselm. 1,721,613; July 23.
- Wiper, Window. E. M. Bussinger. 1,706,053; Mar. 19.
- Wiper, Window. C. A. Harvey and G. N. Hanson. 1,699,357; Jan. 15.
- Wiper, Windshield. J. A. Carson. 1,709,932; Apr. 23.
- Wiper, Windshield. B. C. Chandler. 1,715,991; June 4.
- Wiper, Windshield. J. E. Clark. 1,714,257; May 21.
- Wiper, Windshield. L. J. Deuel and C. R. Higgins. 1,733,948; Oct. 29.
- Wiper, Windshield. L. O. Dimick. 1,730,998; Oct. 8.
- Wiper, Windshield. E. L. Fogland. 1,719,006; July 2.
- Wiper, Windshield. R. B. Gearhart. 1,738,884; Dec. 10.
- Wiper, Windshield. R. B. Gibson. 1,720,832; July 16.
- Wiper, Windshield. R. B. Gray. 1,725,860; Aug. 27.
- Wiper, Windshield. K. Knudsen. 1,720,906; July 16.
- Wiper, Windshield. T. Lochrie. 1,730,465; Oct. 8.
- Wiper, Windshield. A. Mesi. 1,737,473; Nov. 26.
- Wiper, Windshield. S. J. Monk. 1,698,764; Jan. 15.
- Wiper, Windshield. H. Schroder. 1,719,731; July 2.
- Wiper, Windshield. J. T. Sibley. 1,704,632; Mar. 5.
- Wiper, Windshield. J. T. Sparling. 1,739,806; Dec. 17.
- Wiper, Windshield. J. B. Stevens. 1,711,756; May 7.
- Wiper, Windshield. E. B. Tarver. 1,703,181; Feb. 26.
- Wiper, Windshield. J. R. Uddenborg. 1,727,456; Sept. 10.
- Wiper, Windshield. L. D. Vermette. 1,729,636; Oct. 1.
- Wiper, Windshield. G. E. Vinnege. 1,721,140; July 16.
- Wiper, Windshield. K. A. Weber. 1,738,545; Dec. 10.
- Wiper, Windshield. F. G. Whittington. 1,715,343; May 28.
- Wiper, Windshield. J. M. Young. 1,735,070; Nov. 12.
- Wiping mechanism. A. F. Carlson. 1,712,979; May 14.
- Wire and manufacturing same, Plated. E. Kollmar. 1,703,940; Mar. 5.
- Wire article. J. Blaukowitz. 1,719,583; July 2.
- Wire-bag-making machine. Y. Guyon and R. H. C. Marty. 1,741,623; Dec. 31.
- Wire-binding machine. J. L. Vaughn. 1,697,890; Jan. 8.
- Wire-block-stripping mechanism. J. C. Bittman. 1,734,360; Nov. 5.
- Wire clamp. C. J. Holm. 1,729,945; Oct. 1.
- Wire clamp. A. G. White. 1,725,553; Aug. 20.
- Wire clip, Spring. W. H. Lawley. 1,733,415; Oct. 29.
- Wire-colling machine. J. W. Ekstedt. 1,703,995; Mar. 5.
- Wire coils, Manufacturing. J. Majce. 1,739,246; Dec. 10.
- Wire-collar machine. J. A. Carr. 1,697,631; Jan. 1.
- Wire connector. J. K. Rose. 1,699,211; Jan. 15.
- Wire connector. W. R. Sommer. 1,736,379; Nov. 19.
- Wire-connecting lug with test contact. J. Sachs. 1,739,262; Dec. 10.
- Wire connection for flexible towers, Ground. G. D. Alvord. 1,699,483; Jan. 15.
- Wire contact, Trolley. W. C. H. Wefel. 1,711,862; May 7.
- Wire cutter. V. J. Martin. 1,709,675; Apr. 16.
- Wire cutter, High-tension. H. W. Bodendieck. 1,741,971; Dec. 31.
- Wire cutter, Pile. M. B. Behrman. 1,698,046; Jan. 8.
- Wire-cutting device. H. I. Danziger. 1,732,224; Oct. 22.
- Wire-cutting device. H. O. McMillan. 1,700,74; Jan. 29.
- Wire-cutting machine. M. D. Kilmer. 1,714,094; May 21.
- Wire-cutting machine. G. F. Matteson. 1,711,277; Apr. 30.
- Wire, Device for applying and twisting. E. D. Tubbs. 1,732,072; Oct. 15.
- Wire-drawing apparatus. H. L. Blood. 1,735,846; Nov. 19.
- Wire-drawing apparatus. W. U. Boedeker. 1,735,850; Nov. 19.
- Wire-drawing apparatus. H. O. Olson. 1,735,871; Nov. 19.
- Wire-drawing apparatus. L. Stastney. 1,706,754; Mar. 26.
- Wire-drawing apparatus. P. V. Tippet. 1,697,888; Jan. 8.
- Wire-drawing machine. W. F. Hosford. 1,722,421; July 30.
- Wire-drawing machine. C. E. Tideman. 1,737,345; Nov. 26.
- Wire-drawing machine, Multiple. W. Nacken. 1,727,664; Sept. 10.
- Wire-drawing mechanism. C. F. Mead. 1,721,184; July 16.
- Wire-drawing mechanism. P. V. Tippet. 1,723,316; Aug. 6.
- Wire end seal for aircraft. G. A. Page, jr. 1,724,959; Aug. 20.
- Wire fabric. P. T. Coons. 1,702,684; Feb. 19.
- Wire fabric. E. F. Pink. 1,707,567; Apr. 2.
- Wire fabric. E. F. Pink. 1,735,788; Nov. 12.
- Wire fabric and apparatus therefor, Production of welded. A. Armstrong. 1,704,526; Mar. 5.
- Wire fabric and making the same. J. P. Weis. 1,710,669; Apr. 23.
- Wire fabric, Weaving. H. Lindsay. 1,704,542; Mar. 5.
- Wire fabrics to fence or gate posts and the like, Fastening. S. Pivonski and F. J. Canitz, jr. 1,738,609; Dec. 10.
- Wire-feeding mechanism for arc welding machines. M. L. MacRae. 1,733,812; Oct. 29.
- Wire fence fabric. N. S. Harter. Des. 77,831; Feb. 26.
- Wire, Forming eyes in. C. L. Hoff and G. G. Naugle. 1,713,964; May 21.
- Wire gate. F. J. Schlies, jr. 1,714,140; May 21.
- Wire glass, Method and apparatus for making. H. F. Clark. 1,708,662; Apr. 9.
- Wire grip. L. H. Whitehead. 1,725,324; Aug. 20.
- Wire gripper. P. Lalanne and H. M. Armstrong. 1,733,994; Oct. 29.
- Wire, Improving the strength qualities of steel. W. Püngel. 1,732,615; Oct. 22.
- Wiring contact pins. G. W. Goodridge. 1,702,234; Feb. 12.
- Wire, Low-resistance permanent. A. H. Jackson. 1,738,828; Dec. 10.
- Wire machine. H. E. Frenette. 1,729,773; Oct. 1.
- Wire, Manufacturing. J. F. Howe. 1,712,348; May 7.
- Wire or the like, Mechanism for and method of coiling. F. Honig. 1,741,056; Dec. 24.
- Wire, Pile. W. Pickard. 1,737,516; Nov. 26.
- Wire, Pile. G. Wehman, jr. 1,697,154; Jan. 1.
- Wire recessing, filling, and straightening machine. C. J. Kotchi. 1,702,304; Feb. 19.
- Wire reel. J. H. Cohen. 1,708,302; Apr. 9.
- Wire splicer. W. F. Harrah. 1,706,116; Mar. 19.
- Wire stitcher. G. P. Baumann. 1,718,199; June 18.
- Wire stitchers, Check pawl for. G. P. Baumann. 1,718,200; June 18.
- Wire-stitching apparatus applicable to rotary printing machines. E. T. Morris. 1,711,960; May 7.
- Wire-stitching machine. E. Leschhorn. 1,708,314; Apr. 9.
- Wire straightening and burnishing arbor. G. F. Matteson. 1,714,096; May 21.
- Wire-straightening machine. G. F. Matteson. 1,735,833; Nov. 12.
- Wire stretcher. J. Enerson. 1,727,871; Sept. 10.
- Wire stretching and twisting device, Combined. R. C. Bulkley and L. B. Wheeler. 1,733,148; Oct. 29.
- Wire stripper. F. M. Van Gelderen. 1,725,114; Aug. 20.
- Wire-stripping machine. G. H. Hartman. 1,722,087; July 23.
- Wire-supporting arrangement. F. M. Hoffman. 1,697,062; Jan. 1.
- Wire-testing device. R. E. Irish. 1,714,169; May 21.
- Wire-threading bit. J. V. Dolezal. 1,712,876; May 14.
- Wire tier for sacks. F. Sigmund. 1,720,152; July 9.
- Wire tightener. L. V. Dickinson. 1,736,848; Nov. 26.
- Wire tightener. A. G. Hjert. 1,707,634; Apr. 2.
- Wire tightener. H. H. Hull. 1,709,019; Apr. 16.
- Wire twister. G. V. Bennett. 1,717,085; June 11.
- Wire-twisting device. P. Beghetti. 1,698,689; Jan. 8.
- Wire-twisting device. W. C. Stevens. 1,699,482; Jan. 15.
- Wire-twisting machine. A. Van Veen. 1,716,844; June 11.
- Wire-twisting tool. M. N. Keeler. 1,717,041; June 11.
- Wireworking machine. F. Magidson. 1,735,580; Nov. 12.
- Wireworking machine. O. F. Rohwedder. 1,740,038; Dec. 17.
- Wireworking machine. J. J. Thacher. 1,714,480; May 21.
- Wireworking mechanism. J. F. Gall. 1,733,660; Oct. 29.
- Wire wrapping and tying machine. J. T. Peck. 1,728,442; Sept. 17.
- Wiring panel for electrical apparatus. H. H. Wermine. 1,718,993; July 2.
- Wires and tapes for loading telephone conductors, Manufacture of. W. S. Smith and H. J. Garnett. 1,723,215; Aug. 6.
- Wires, Identifying cabled. H. B. Jones. 1,738,710; Dec. 10.



- Wires together, Securing. W. B. Wills. 1,713,314; May 14.
- Wires, Treating copper leading-in. C. T. De Groat. 1,719,877; July 9.
- Wireless amplifying receiver unaffected by strays. P. B. David and R. M. Mesny. 1,727,813; Sept. 10.
- Wireless cluster. P. D. Phillips. 1,740,956; Dec. 24.
- Wireless communication, Calling-up device for. G. C. Beddington. 1,721,368; July 16.
- Wireless device, Wired-. J. Oppenheimer. 1,699,806; Jan. 22.
- Wireless direction-finding apparatus. C. Davis. 1,702,041; Feb. 12.
- Wireless messages, Apparatus for selectively controlling the transmission and receiving of. A. R. Starr. 1,724,227; Aug. 13.
- Wireless receiving apparatus, Remote control unit for. F. W. Renwick. 1,697,778; Jan. 1.
- Wireless receiving circuits. E. W. Engle and H. L. Olesen. 1,732,041; Oct. 15.
- Wireless receiving set. G. H. Nash and B. B. Grace. 1,709,089; Apr. 16.
- Wireless receiving sets and other electrical apparatus, Control for. B. E. G. Mittell. 1,709,274; Apr. 16.
- Wireless receiving sets, Control for. B. E. G. Mittell. 1,704,802; Mar. 12.
- Wireless receiving system. M. C. Batsel. 1,732,710; Oct. 22.
- Wireless receiving system. A. Esau. 1,732,005; Oct. 15.
- Wireless receiving system. G. M. Wright and L. D. Hill. 1,724,246; Aug. 13.
- Wireless sending and receiving system, Combined. C. L. Fortescue. 1,715,701; June 4.
- Wireless signaling, Short wave. A. Esau. 1,732,556; Oct. 22.
- Wireless signaling system. Q. C. A. Craufurd and C. C. J. Frost. 1,727,536; Sept. 10.
- Wireless system, Wired-. L. C. Grant. 1,697,462; Jan. 1.
- Wireless telephony and telegraphy, Apparatus for. R. Ranzini. 1,718,255; June 25.
- Wireless waves, Propagation of. R. C. Galletti. 1,714,864; May 28.
- Wire-line equalizer. H. L. Crull. 1,724,911; Aug. 20.
- Withdrawing of the contents of ampules, Apparatus for enabling the. G. N. Hein. 1,728,965; Sept. 24.
- Wood, Aggregating particles of. F. Lauter. 1,702,013; Feb. 12.
- Wood and products thereof, Producing printing surfaces of. J. K. Snyder. 1,717,945; June 18.
- Wood and treating wood, Fireproofed. J. R. Coolidge, 3d. 1,734,715; Nov. 5.
- Wood and treating wood, Impregnating. J. R. Coolidge, 3d. 1,734,714; Nov. 5.
- Wood, Bending. W. H. Bergmann. 1,739,281; Dec. 10.
- Wood carrier. A. B. Frenning. 1,722,664; July 30.
- Wood-chopping device. F. H. Hampton. 1,701,001; Feb. 5.
- Wood distillation. F. S. Clark. 1,731,242; Oct. 15.
- Wood fiber for high-grade paper and derivative manufacture. G. A. Richter. 1,709,322; Apr. 16.
- Wood grain designs of a wood panel to another article, Transferring natural. W. Mavor and C. S. Houpt. 1,741,471; Dec. 31.
- Wood-heel-turning machine. R. H. Pettengill. 1,699,077; Jan. 15.
- Wood impregnation. A. M. Howald. 1,703,239; Feb. 26.
- Wood-metal structural unit, Composite. S. Macomber. 1,737,601; Dec. 3.
- Wood preservative. L. P. Curtin. 1,722,323; July 30.
- Wood, Preserving. W. O. Snelling. 1,723,384; Aug. 6.
- Wood-preserving composition and fungicide. A. L. Klees and R. P. Soule. 1,720,905; July 16.
- Wood pulp and making, Bleached chemical. L. Bradley and E. P. McKeefe. 1,730,315; Oct. 1.
- Wood pulp, Making. W. Brydges and S. C. Foster. 1,737,542; Nov. 26.
- Wood pulp, Making. H. F. Weiss. 1,711,706; May 7.
- Wood-pulp material. J. H. Wallace. 1,710,752; Apr. 30.
- Wood pulp, Method and apparatus for removing knots from mechanical and chemical. A. C. Andersen and A. Schie. 1,718,399; June 25.
- Wood pulp, Producing. W. D. Mount. 1,725,818; Aug. 27.
- Wood pulp, Producing. F. K. L. Schouten. 1,717,266; June 11.
- Wood shaper. O. Onsrud. 1,715,380; June 4.
- Wood-shredding machine. O. B. Randall. 1,736,622; Nov. 19.
- Wood-surfacing machine. A. A. Clarke. 1,732,594; Oct. 22.
- Wood-turning machine. C. L. Mattison. 1,721,160; July 16.
- Woodturning machine. C. L. Mattison and C. E. La Pointe. 1,735,906; Nov. 19.
- Wood veneer and preparing same. W. H. Wood. 1,738,132; Dec. 3.
- Woodwork such as doors, Device for preventing and counteracting the warping of. M. A. Reens. 1,730,782; Oct. 8.
- Woodworking clamp. S. Gaul. 1,712,142; May 7.
- Woodworking machine. E. G. Ashley. 1,698,117; Jan. 8.
- Woodworking machine. H. C. Babize. 1,711,077; Apr. 30.
- Woodworking machine. E. E. De Walt. 1,738,763; Dec. 10.
- Woodworking machine. W. A. Elliot. 1,733,532; Oct. 29.
- Woodworking machine. H. V. Joseph. 1,736,916; Nov. 26.
- Woodworking machine. J. Schmidt. Re17,329; June 18.
- Woodworking machine. M. Skolnik. 1,703,179; Feb. 26.
- Woodworking machine. J. F. Snover. 1,733,518; Oct. 29.
- Woodworking-machine attachment. C. Hoffman and E. P. Emerson. 1,715,292; May 28.
- Woodworking machine, Automatic. H. Huber. 1,722,575; July 30.
- Woodworking machine, Combination. W. D. Patterson. 1,715,564; June 4.
- Woodworking machines, Feed for. L. E. Blood. 1,730,841; Oct. 8.
- Woodworking machines, Rotary cutter head for. T. J. Anderson. 1,730,714; Oct. 8.
- Wool, Artificial. G. M. Rossati and G. de Blasio. 1,703,693; Feb. 26.
- Wool, Mordanting and dyeing of. C. S. Bedford. 1,735,844; Nov. 19.
- Work and feed device, Automatic. G. T. Pollard. 1,709,946; Apr. 23.
- Workbench. L. W. Jones. 1,726,898; Sept. 3.
- Work box. W. Hanley. 1,707,806; Apr. 2.
- Work-contacting means for jigs, Adjustable. G. E. Swartz. 1,721,648; July 23.
- Work-ejecting mechanism for printing apparatus. C. Chisholm. 1,721,000; July 16.
- Workholder. K. F. Gallimore and R. M. Woytych. 1,714,555; May 28.
- Workholder for machine-tool beds. D. D. Wells. 1,717,641; June 18.
- Workholder, Power-actuated. J. Edgar. 1,703,102; Feb. 26.
- Work-holding apparatus. A. C. Asper. 1,698,982; Jan. 15.
- Work-holding clamp. C. L. Gustafson. 1,740,238; Dec. 17.
- Work-holding device. G. W. Andrews, Jr. 1,729,812; Oct. 1.
- Work-holding device. R. D. Baker. 1,710,082; Apr. 23.
- Work-holding machine. E. W. Laycock. 1,729,076; Sept. 24.
- Workholding mechanism for shoe machines. J. L. Prego and I. Henne. 1,697,252; Jan. 1.
- Work-supporting device for sewing and embroidery machines. M. J. Maguth. 1,725,403; Aug. 20.
- Work table. J. Brogden. 1,703,074; Feb. 19.
- Worktable, Rotatable. C. B. De Vlieg. 1,737,002; Nov. 26.
- Working combustion engines at variable elevations. F. Gruebler. 1,720,414; July 9.
- Working fibrous material, Mechanism for. J. N. Selvig. 1,720,750; July 16.
- Working for the cleaning of boiler-feeding water. M. Bauer. 1,737,448; Nov. 26.
- Working up solutions obtained by leaching ores having been subjected to a chlorination roasting process. H. Neumark. 1,720,138; July 9.
- Wound clasp. A. C. S. von Wachenfeldt. 1,728,316; Sept. 17.
- Woven fabric. J. A. Hendley. 1,720,632; July 9.
- Woven screen, Rubber-covered. C. F. Sherwood. 1,718,386; June 25.
- Wrapper, Cable. W. D. Starrett. 1,698,830; Jan. 15.
- Wrapper-carrier suction control. W. R. Lindgren. 1,710,739; Apr. 30.
- Wrapper, Folding. S. Karn. 1,720,679; July 16.
- Wrapper gumming and delivery system. J. S. Stokes. 1,701,317; Feb. 5.
- Wrapper, Insulating. G. B. Scarlett. 1,741,377; Dec. 31.
- Wrapper, Spring-leaf. S. L. Young. 1,731,034; Oct. 8.
- Wrapping and sealing machine. H. H. Metcalf. 1,703,855; Feb. 26.
- Wrapping and sealing machine. W. W. Templin. 1,722,716; July 30.
- Wrapping apparatus, Package. W. R. Mabee. 1,710,779; Apr. 30.
- Wrapping cylindrical objects, Machine for. G. A. Shaffer and F. H. Wirtz. 1,702,276; Feb. 19.
- Wrapping hose, Method and device for. J. I. Haase. 1,706,605; Mar. 26.
- Wrapping machine. A. M. English. 1,739,633; Dec. 17.
- Wrapping machine. S. R. Howard. 1,730,613; Oct. 8.
- Wrapping machine. A. W. Kath and B. W. Scott. 1,709,984; Apr. 23.
- Wrapping machine. K. F. Kronqvist. 1,703,043; Feb. 19.
- Wrapping machine. H. A. Sévigné and C. E. Jacobs. 1,734,351; Nov. 5.
- Wrapping machine. E. L. Smith. 1,731,946; Oct. 15.
- Wrapping machine. E. L. Smith and H. J. Paynter. 1,734,921; Nov. 5.
- Wrapping machine. W. A. Sowden. 1,703,641; Feb. 26.
- Wrapping machine, Box-. H. B. Kleinsmith, F. R. Neely, and F. W. Doll. 1,733,229; Oct. 29.
- Wrapping machine, Bread. C. O. Brownell. 1,734,362; Nov. 5.
- Wrapping machinery. W. E. Molins. 1,697,468; Jan. 1.
- Wrapping machines, Card-inserting attachment for. M. E. Foernsler. 1,721,552; July 23.
- Wrapping machines, Insert attachment for. F. R. Schmitt. 1,729,457; Sept. 24.
- Wrapping machines, Package conveyor for bread-. F. Farmer. 1,740,582; Dec. 24.
- Wrapping machines, Paper-feeding mechanism for. M. J. Milmo. 1,737,016; Nov. 26.
- Wreath. L. Gaston. 1,730,846; Oct. 8.
- Wreath for automobile headlights, Decorative. B. H. Marshall. 1,707,127; Mar. 26.
- Wreath-making machine, Evergreen-. J. E. Tavley. 1,729,171; Sept. 24.



- Wrench: *See*—  
 Adjustable wrench. Pipe wrench.  
 Brace wrench. Pistol-grip wrench.  
 Cable wrench. Quick-set wrench.  
 Chain wrench. Ratchet wrench.  
 Hydrant wrench. Socket wrench.  
 Jaw wrench. Spark-plug wrench.  
 Monkey wrench. Speed wrench.  
 Nut wrench. Strap wrench.  
 Open-end wrench. Tappet wrench.
- Wrench. E. C. Adams. 1,729,695; Oct. 1.  
 Wrench. L. D. Anderson. 1,719,414; July 2.  
 Wrench. J. B. Arbuckle and W. Depfer. 1,736,885; Nov. 19.  
 Wrench. M. T. Archer. 1,722,652; July 30.  
 Wrench. M. E. Bigelow. 1,698,618; Jan. 8.  
 Wrench. R. J. Breseman. 1,702,148; Feb. 12.  
 Wrench. S. F. Campbell. 1,730,722; Oct. 8.  
 Wrench. A. Colognori. 1,732,000; Oct. 15.  
 Wrench. R. G. Dawson. 1,710,409; Apr. 23.  
 Wrench. G. E. Eckland. 1,739,715; Dec. 17.  
 Wrench. A. Erikson. 1,730,811; Oct. 8.  
 Wrench. A. K. Ersland. 1,713,038; May 14.  
 Wrench. W. H. Goldstraw. 1,714,018; May 21.  
 Wrench. F. Hebel. 1,701,037; Feb. 5.  
 Wrench. P. M. Heinz. 1,697,764; Jan. 2.  
 Wrench. H. Hoffman. 1,707,856; Apr. 2.  
 Wrench. H. J. M. Howard. 1,709,075; Apr. 16.  
 Wrench. A. D. Kennedy and J. A. Gillies. 1,728,552; Sept. 17.  
 Wrench. M. Konzelman. 1,709,794; Apr. 16.  
 Wrench. H. C. Krogel. 1,721,860; July 23.  
 Wrench. G. C. Lawson. 1,734,734; Nov. 5.  
 Wrench. W. Little. 1,700,323; Jan. 29.  
 Wrench. C. W. Lynch. 1,710,317; Apr. 23.  
 Wrench. J. R. Mahan. 1,721,963; July 23.  
 Wrench. S. Mandl. 1,724,491; Aug. 13.  
 Wrench. A. A. McGill. 1,697,535; Jan. 1.  
 Wrench. A. A. McGill. 1,717,726; June 18.  
 Wrench. J. S. McKibbin. 1,709,589; Apr. 16.  
 Wrench. J. S. McKibbin. 1,730,671; Oct. 8.  
 Wrench. H. A. Mead. 1,735,257; Nov. 12.  
 Wrench. L. Moritsky. 1,717,241; June 11.  
 Wrench. C. E. Morse. 1,733,355; Oct. 29.  
 Wrench. E. Nickerson. 1,716,382; June 11.  
 Wrench. S. C. North. 1,729,795-6; Oct. 1.  
 Wrench. H. G. Norwood. 1,708,847; Apr. 9.  
 Wrench. W. Parker, Jr. 1,733,273; Oct. 29.  
 Wrench. A. C. Patch. 1,733,607; Dec. 10.  
 Wrench. W. Peterson. 1,715,426; June 4.  
 Wrench. C. E. Pile. 1,713,480; May 14.  
 Wrench. A. N. Plante. 1,725,301; Aug. 20.  
 Wrench. B. B. Pyle and H. R. Compton. 1,702,547; Feb. 19.  
 Wrench. J. W. Saffold. 1,711,694; May 7.  
 Wrench. E. L. Scranton. 1,716,193; June 4.  
 Wrench. R. Sulger. 1,709,378; Apr. 16.  
 Wrench. W. O. Thewes. 1,727,623; Sept. 10.  
 Wrench. C. Vallone. 1,729,640; Oct. 1.  
 Wrench. L. Viezzi. 1,723,960; Aug. 6.  
 Wrench. A. J. Wachsmuth. 1,706,427; Mar. 26.  
 Wrench. H. Watts. 1,739,880; Dec. 17.  
 Wrench. J. S. Wick. 1,704,067; Mar. 5.  
 Wrench attachment. A. Beduor. 1,733,642; Oct. 29.  
 Wrench for latch-handle fasteners. L. Ottinger. 1,710,510; Apr. 23.  
 Wrench for tool holders. L. F. Armstrong. 1,732,549; Oct. 22.  
 Wrench machine. J. L. Dedge. 1,734,475; Nov. 5.  
 Wrenches, Making. A. O. Brungardt. 1,711,083; Apr. 30.
- Wringer: *See*—  
 Clothes wringer. Mop wringer.  
 Fishline wringer.
- Wringer. W. G. Beatty. 1,713,686; May 21.  
 Wringer. C. C. Cammack. 1,728,722; Sept. 17.  
 Wringer. V. Gehrlein. 1,709,071-2; Apr. 16.  
 Wringer. V. Gehrlein. 1,709,125; Apr. 16.  
 Wringer. E. V. Godfrey. 1,736,589; Nov. 19.  
 Wringer. E. J. Schuda. 1,709,098; Apr. 16.  
 Wringer. E. J. Schuda. 1,736,468; Nov. 19.  
 Wringer. B. A. Stocking. 1,699,817; Jan. 22.  
 Wringer, mangle, or like machine. S. G. Jowitt. 1,704,569; Mar. 5.  
 Wringer mechanism, Folding. A. W. Altorfer. 1,728,651; Sept. 17.  
 Wringers, Attachment for wash. G. Muscato. 1,701,693; Feb. 12.  
 Wringers, Endless belt for roller. R. L. Lee. 1,698,100; Jan. 8.  
 Wringers, Feed service for. R. K. Dawson. 1,712,754; May 14.  
 Wringers, Safety attachment for. W. E. Gildea. 1,737,714; Dec. 3.  
 Wringing apparatus. G. Overaker. 1,700,071; Jan. 22.  
 Wringing machine. M. J. Root. 1,716,902; June 11.  
 Wringing machine. W. J. Sims. 1,723,894; Aug. 6.  
 Wristband. J. W. Shoemaker. 1,707,582; Apr. 2.  
 Wrist pact. A. Hazel. 1,706,059; Mar. 19.  
 Wrist pin. C. J. McDonnell. 1,712,627; May 14.  
 Wrist pin. R. N. Vickers. 1,708,981; Apr. 16.  
 Wrist-pin construction. C. H. Knudsen. 1,718,963; July 2.  
 Wrist-pin joint. R. F. Bineman. 1,734,244; Nov. 5.  
 Wrist pin, Locked. R. R. Wirt. 1,706,909; Mar. 26.  
 Wrist-watch band. E. F. Herschede. 1,733,538; Oct. 29.
- Wrist-watch band. P. W. Jones. 1,713,533; May 21.  
 Wrist-watch band or strap mounting. C. J. Helleman. 1,704,795; Mar. 12.  
 Wrist-watch box. J. M. Shields. 1,735,060; Nov. 12.  
 Wrist-watch strap. F. G. Haage. Des. 79,424; Sept. 17.  
 Wrist-watch strap. A. Schwalberg. 1,713,098; May 14.  
 Wristlet. A. Christophersen. 1,713,261; May 14.  
 Writing and smoking stand, Combined. B. G. Larrabee. Des. 79,822-7; Nov. 5.  
 Writing and smoking stand, Combined. B. G. Larrabee. Des. 79,971-2; Nov. 26.  
 Writing arm, Folding. E. W. Chapman. 1,731,293; Oct. 15.  
 Writing device. H. I. Morris. 1,729,791; Oct. 1.  
 Writing device. H. I. Morris. 1,737,862; Dec. 3.  
 Writing Device for insuring correct finger position in. E. Mockel. 1,702,660; Feb. 19.  
 Writing implement. W. C. Stow. 1,730,046; Oct. 1.  
 Writing implement, Illuminated. A. Weber. 1,722,238; July 23.  
 Writing implements, Attachment for. S. Pearson. 1,710,589; Apr. 23.  
 Writing instrument. E. B. Nichols. 1,730,679; Oct. 8.  
 Writing-pen clip. M. Smith. 1,697,545; Jan. 1.  
 Wrought iron, Production of. A. J. Briggs. 1,713,887; May 21.  
 Wrought-metal articles, Making. C. R. Short. 1,711,000; Apr. 30.  
 Xanthate mixture. J. H. James. 1,716,273; June 4.  
 Xanthates, Making alkali-metal. W. Hirschkind. 1,704,249; Mar. 5.  
 Xanthates, Manufacture of. T. W. Bartram and W. C. Weltman. 1,724,549; Aug. 13.  
 X-ray anode. W. D. Coolidge. 1,714,975; May 28.  
 X-ray apparatus. E. S. Humphreys. 1,727,883; Sept. 10.  
 X-ray apparatus. W. K. Kearsley, Jr. 1,698,334; Jan. 8.  
 X-ray apparatus. A. Mutscheller. 1,709,866; Apr. 23.  
 X-ray apparatus. J. B. Wantz. 1,725,030; Aug. 20.  
 X-ray cassette. A. W. Buck. 1,697,381; Jan. 1.  
 X-ray-film holder, Dental. J. L. Hillman. 1,698,795; Jan. 15.  
 X-ray photographic apparatus. I. S. Hirsch. 1,722,573; July 30.  
 X-ray photographs, Method and system for taking. C. Niemann. 1,703,688; Feb. 26.  
 X-ray pictures of objects in action and machine for taking pictures according thereto, Taking and completing. S. Katzman. 1,704,974; Mar. 12.  
 X-ray system. M. Pohlmann. 1,697,692; Jan. 1.  
 X-ray target, Composite. J. W. Marden, C. T. Ulrey, and L. F. Ehrke. 1,733,744; Oct. 29.  
 X-ray tube. A. Bouwers. 1,717,309; June 11.  
 X-ray tube. A. Bouwers and W. H. van de Sande Bakhuizen. 1,718,849; June 25.  
 X-ray tube. G. Bucky. 1,708,494; Apr. 9.  
 X-ray tube. C. T. Ulrey and L. F. Ehrke. 1,715,152; May 28.  
 X-ray tube. C. T. Ulrey and H. D. Madden. 1,715,150; May 28.  
 X-ray tubes, Cathode arrangement for. K. W. Daumann. 1,720,210; July 9.  
 Xylenes, Manufacture of. E. Tschunkur and F. Eichler. 1,727,682; Sept. 10.
- Yarn and improved product, Manufacture of cotton. E. C. Gwaltney. 1,736,592; Nov. 19.  
 Yarn carrier. J. B. Bolton. 1,709,766; Apr. 16.  
 Yarn carrier. R. Hampe. 1,716,128; June 4.  
 Yarn clamp. J. B. Bolton. 1,709,767; Apr. 16.  
 Yarn clamp. W. S. Parker. 1,728,303; Sept. 17.  
 Yarn cleaner for spoolers. H. A. Davis. 1,701,471; Feb. 5.  
 Yarn-compressing mechanism. A. L. Remington and R. C. Longvall. 1,733,203; Oct. 29.  
 Yarn-conditioning machine. F. L. Furbush. 1,713,429; May 14.  
 Yarn-conditioning mechanism. F. E. Struve. 1,724,230; Aug. 13.  
 Yarn-doubling frame. F. Chadwick. 1,710,656; Apr. 23.  
 Yarn-feed mechanism. W. F. Rolston. 1,718,835; June 25.  
 Yarn package and forming the same. J. L. Barry. 1,699,945; Jan. 22.  
 Yarn packages, Device for forming. J. L. Barry. 1,699,946; Jan. 22.  
 Yarn rack. J. H. Thompson. 1,707,102; Mar. 26.  
 Yarn, Spotting. W. N. Gere. 1,724,015; Aug. 13.  
 Yarn-tension device. J. O. McKean. 1,708,514; Apr. 9.  
 Yarns and yarn of said character, Production of composite. P. D. Cannon. 1,732,593; Oct. 22.  
 Yarns or fabrics composed wholly or in part of viscose in the sulphur state, Obtaining luster and matte effects on. F. Scholefield and N. Denner. 1,724,375; Aug. 13.  
 Yarns, threads, and the like, Apparatus for moistening. H. Pferdmeiges. 1,736,359; Nov. 19.  
 Yarns, Tying up of. J. C. Hartogs. 1,709,722; Apr. 16.  
 Yeast and its manufacture. G. O. W. Heijenskjöld. 1,703,272; Feb. 26.  
 Yeast-cake forming and wrapping machine. E. L. Smith and H. J. Paynter. 1,702,176; Feb. 12.  
 Yeast composition. B. M. Dawson. 1,706,566; Mar. 26.  
 Yeast composition and preparing the same. B. M. Dawson. 1,706,564-5; Mar. 26.  
 Yeast for medical and pharmaceutical purposes, Manufacturing dry. C. Massatsch. 1,736,657; Nov. 19.  
 Yeast-handling apparatus. G. J. Patitz. 1,709,405; Apr. 16.



Yeast manufacture. J. Hasling, jr. 1,722,746; July 30.  
Yeast, Manufacture of. G. S. Bratton. 1,732,922; Oct. 22.  
Yeast, Manufacture of. W. H. F. Bührig. 1,730,876; Oct. 8.  
Yeast, Manufacture of. L. J. Howells. 1,725,533; Aug. 20.  
Yeast, Manufacture of. E. Klein. 1,722,803; July 30.  
Yeast, Manufacture of. E. A. Meyer. 1,724,952; Aug. 20.  
Yeast, Manufacturing. L. Lavedan. 1,718,910; June 25.  
Yeast, Manufacturing. R. Hamburger, S. Kaesz, and F. Hartig. 1,733,962; Oct. 29.  
Yeast preparation and manufacturing the same. R. Willstätter. 1,701,200; Feb. 5.  
Yeast, Producing. J. R. White. 1,727,847; Sept. 10.  
Yeast production. F. Ransohoff. 1,722,858; July 30.  
Yeast-saving composition in bread making. C. B. Hill and M. H. Givens. 1,702,259; Feb. 19.  
Yoghurt curdled milk or a sweet yoghurt junket. Preparation of a mild aromatic. G. Winkler. 1,710,133; Apr. 23.  
Yoke. H. J. Lounsbury. 1,730,855; Oct. 8.  
Yoke, Animal. J. A. Badura. 1,718,728; June 25.  
Yoke, Cow. A. E. Green. 1,731,232; Oct. 8.  
Yoke, Cow. W. W. Spainhower. 1,720,612; July 9.  
Yoke end, Neck-. M. D. Dawson. 1,720,628; July 9.  
Yoke, Neck. A. E., E. and J. Schrueth. 1,714,523; May 28.  
Yoke riveter, Closed-. J. C. Hanna. 1,707,519; Apr. 2.  
Yolk-separating device. S. Tranin. 1,727,493; Sept. 10.  
Zeolite. A. O. Jaeger and J. A. Bertsch. 1,701,075; Feb. 5.  
Zinc from blue powder, Apparatus for making liquid. F. Tharaldsen. 1,708,403; Apr. 9.

Zinc from slags, Recovery of. H. H. Mayer and R. G. La Motte. 1,727,073; Sept. 3.  
Zinc, Manufacture of. H. E. Coley. 1,721,373; July 16.  
Zinc ores, Reducing. H. Witteke. 1,728,094; Sept. 10.  
Zinc oxide, Recovering. C. A. H. de Saulles. 1,712,553; May 14.  
Zinc, Producing. C. Matzel. 1,705,128; Mar. 12.  
Zinc, Producing. A. L. J. Queneau. 1,718,378; June 25.  
Zinc product, Mechanically-worked. W. M. Peirce and E. A. Anderson. 1,716,599; June 11.  
Zinc, Production of. R. Lepsoe. 1,738,910; Dec. 10.  
Zinc, Recovery of. W. G. Horsch. 1,719,056; July 2.  
Zinc-reduction apparatus and process. H. Koppers. 1,733,500; Oct. 29.  
Zinc sulphide. C. W. Farber. 1,742,030; Dec. 31.  
Zinc vapor, Condensing. F. G. Breyer. 1,712,133; May 7.  
Zinciferous materials, Reducing. F. G. Breyer and E. H. Bunce. 1,712,132; May 7.  
Zinciferous materials, Reducing. F. G. Breyer and E. H. Bunce. 1,712,134; May 7.  
Zirconic oxide, Recovering. F. Rüsberg and P. Schmid. 1,732,662; Oct. 22.  
Zither or similar article. J. H. Large. Des. 79,821; Nov. 5.  
Zone fare system. H. J. Baur and E. H. Thompson. 1,734,283; Nov. 5.  
Zoning and fare-collecting system. J. W. Hulme. 1,737,422; Nov. 26.

## LIST OF DISCLAIMERS ARRANGED BY INVENTIONS

Back filler. Hans J. Bentson. No. 1,380,944; date of patent June 7, 1921; disclaimer filed Mar. 7, 1929; v. 381; p. 223.  
Bank, Book-form savings. Butler F. Greer. No. 1,460,716; date of patent July 3, 1923; disclaimer filed Apr. 27, 1929; v. 382; p. 290.  
Bleeder. Allen Boyd. No. 1,642,536; date of patent Sept. 13, 1927; disclaimer filed Apr. 19, 1929; v. 382; p. 6.  
Boiler apparatus, Electric. Gustave Welter. No. 1,667,758; date of patent May 1, 1928; disclaimer filed June 10, 1929; v. 384; p. 5.  
Boilers, Control for subvacuous condition of periodically-fired. Vernon T. Brigham. No. 1,620,005; date of patent Mar. 8, 1927; disclaimer filed Mar. 18, 1929; v. 381; p. 223.  
Can bodies, Machine for forming and flanging. Peter Kruse. No. 1,430,743; date of patent Oct. 3, 1922; disclaimer filed Apr. 1, 1929; v. 381; p. 486.  
Can bodies, Machine for making. Peter Kruse. No. 1,234,182; date of patent July 24, 1917; disclaimer filed Apr. 1, 1929; v. 381; p. 486.  
Car-door mechanism. William E. Wine. No. 1,662,651; date of patent Mar. 13, 1928; disclaimer filed Feb. 4, 1929; v. 379; p. 444.  
Casting box. Amandus H. Cruse. No. 1,117,980; date of patent Nov. 24, 1914; disclaimer filed Apr. 26, 1929; v. 382; p. 290.  
Catalytic apparatus. Alphons O. Jaeger. No. 1,660,511; date of patent Feb. 28, 1928; disclaimer filed Feb. 21, 1929; v. 380; p. 252.  
Catalytic reactions, Process of carrying on. James M. Selden. No. 1,647,317; date of patent Nov. 1, 1927; disclaimer filed Dec. 31, 1928; v. 378; p. 508.  
Circuit breaker, Thermally-operated. Paul B. Parks. No. 1,644,443; date of patent Oct. 4, 1927; disclaimer filed Feb. 18, 1929; v. 380; p. 1.  
Economizer. Howard J. Kerr and James E. Trainer. No. 1,715,037; date of patent May 28, 1929; disclaimer filed Oct. 23, 1929; v. 388; p. 282.  
Electrical induction apparatus. Svend E. Johannesen. No. 1,698,634; date of patent Jan. 8, 1929; disclaimer filed Sept. 7, 1929; v. 387; p. 1.  
Electrolytic apparatus employing filmed electrodes. Ralph D. Mershon. No. 1,141,402; date of patent June 1, 1915; disclaimer filed Nov. 19, 1929; v. 389; p. 267.  
Exterminators, Fly. Fred D. Terry. No. 1,599,851; date of patent Sept. 14, 1926; disclaimer filed Oct. 14, 1929; v. 388; p. 5.  
Footwear, Machine for operating on. Milton H. Ballard and Thomas H. Seely. No. 1,674,085; date of patent June 19, 1928; disclaimer filed Feb. 16, 1929; v. 380; p. 1.  
Force-feed lubricating apparatus. Herman Albertine. No. 1,633,356; date of patent June 21, 1927; disclaimer filed May 24, 1929; v. 383; p. 551.  
Glass, Feeding molten. Karl E. Peiler. No. 1,589,304; date of patent June 15, 1926; disclaimer filed June 11, 1929; v. 384; p. 5.  
Grinding machine, Centerless. Sol Einstein, Lester F. Nenninger, and Walter D. Archea. No. 1,575,558; date of patent Mar. 2, 1926; disclaimer filed Mar. 8, 1929; v. 381; p. 223.  
Hair waving, Steaming tube for. W. S. Lewis. No. 1,611,466; date of patent Dec. 21, 1926; disclaimer filed July 27, 1929; v. 384; p. 516.  
Heel-turning machine. J. H. Vinton, deceased. R. No. 16,408; date of patent Aug. 24, 1926; disclaimer filed Nov. 25, 1929; v. 389; p. 531.

Hopper. F. N. Ross. No. 1,606,185; date of patent Nov. 9, 1926; disclaimer filed Jan. 14, 1929; v. 378; p. 907.  
Index or file. W. H. Day. No. 1,675,331; date of patent July 3, 1928; disclaimer filed Nov. 18, 1929; v. 389; p. 1.  
Latch. A. F. Winters and B. R. Crampton. No. 1,385,102; date of patent July 19, 1921; disclaimer filed Oct. 24, 1929; v. 388; p. 281.  
Lathes. L. E. Godfriaux. No. 1,446,557; date of patent Feb. 27, 1923; disclaimer filed Sept. 13, 1929; v. 387; p. 1.  
Liquids, fluids, and oils, Process for conversion of. J. H. Adams. No. 1,327,263; date of patent Mar. 16, 1926; disclaimer filed Feb. 28, 1929; v. 381; p. 223.  
Lithopone and improved method of making same. Crude. J. H. Calbeck. No. 1,669,857; date of patent May 15, 1928; disclaimer filed Apr. 23, 1929; v. 382; p. 6.  
Loud-speaker. V. Himmer. No. 1,593,406; date of patent July 20, 1926; disclaimer filed July 10, 1929; v. 384; p. 949.  
Lubricating device. A. M. Sosa and H. Baerbalck. No. 1,699,816; date of patent Jan. 22, 1929; disclaimer filed Oct. 18, 1929; v. 388; p. 281.  
Machine tools, Pilot-bar construction for. G. W. Drake and M. E. Lange. No. 1,575,742; date of patent Mar. 9, 1926; disclaimer filed Jan. 10, 1929; v. 378; p. 907.  
Measuring and dispensing machine. T. B. Lundin and J. F. McGhee. No. 1,648,554; date of patent Nov. 8, 1927; disclaimer filed Apr. 30, 1929; v. 382; p. 574.  
Motor, Synchronous. V. A. Fynn. No. 1,599,758; date of patent Sept. 14, 1926; disclaimer filed Feb. 16, 1929; v. 380; p. 1.  
Mustard, mustard catsup, salad dressing, etc. The Olds Products Co. T. M. No. 105,322; date of registration July 20, 1915; disclaimer filed June 20, 1929; v. 383; p. 551.  
Oils, Apparatus for refining. J. Primrose. No. 1,693,156; date of patent Nov. 27, 1928; disclaimer filed Oct. 10, 1929; v. 387; p. 965.  
Paper, Safety. C. W. Walther. Des. No. 71,537; date of patent Nov. 23, 1926; disclaimer filed Sept. 13, 1929; v. 387; p. 1.  
Phonographs, Safety device for. A. V. Bodine. No. 1,725,332; date of patent Aug. 20, 1929; disclaimer filed Nov. 19, 1929; v. 389; p. 267.  
Plow, One-way disk. C. J. Angell. No. 1,615,499; date of patent Jan. 25, 1927; disclaimer filed Apr. 15, 1929; v. 381; p. 983.  
Pump. C. M. Davison. No. 1,634,023; date of patent June 28, 1927; disclaimer filed Jan. 29, 1929; v. 379; p. 212.  
Pump, Deep-well. I. B. Winsor. No. 1,621,046; date of patent Mar. 15, 1927; disclaimer filed Feb. 18, 1929; v. 380; p. 494; and disclaimer filed Apr. 17, 1929; v. 382; p. 6. (Two cases.)  
Radiator cap and indicator. O. W. Moore. No. 1,580,151; date of patent Apr. 13, 1926; disclaimer filed Apr. 16, 1929; v. 381; 983.  
Refrigerating, Process of and apparatus for. Fred W. Wolf. No. 1,337,175; date of patent Apr. 13, 1920; disclaimer filed Jan. 28, 1929; v. 379; p. 212.  
Sheet-feeding apparatus. Albert Broadmeyer. No. 1,632,945; date of patent June 21, 1927; disclaimer filed Oct. 11, 1929; v. 387; p. 965.  
Shingle machine. Harry Applin. No. 1,623,612; date of patent Apr. 5, 1928; disclaimer filed July 3, 1929; 1. 384; p. 728.



Skillet. Charles A. Massing. No. 1,554,360; date of patent Sept. 22, 1925; disclaimer filed Jan. 14, 1929; v. 379; p. 212.

Telegraph system. Lee R. Foster. No. 1,657,384; date of patent Jan. 24, 1928; disclaimer filed Nov. 9, 1929; v. 389; p. 1.

Telegraph system. Marion H. Woodward. No. 1,699,418; date of patent Jan. 15, 1929; disclaimer filed Nov. 9, 1929; v. 389; p. 1.

Telephone-exchange system. Warren W. Carpenter. No. 1,605,921; date of patent Nov. 9, 1926; disclaimer filed Oct. 16, 1929; v. 388; p. 5.

Telephone-exchange system. Edgar H. Clark. No. 1,567,040; date of patent Dec. 29, 1925; disclaimer filed Feb. 26, 1929; v. 380; p. 252.

Telephone-exchange system, Automatic. Mark B. Kerr. No. 1,577,033; date of patent Mar. 16, 1926; disclaimer filed Feb. 28, 1929; v. 380; p. 495.

Telephone system. Charles L. Goodrum and Henry P. Clausen. No. 1,387,386; date of patent Aug. 9, 1921; disclaimer filed Mar. 5, 1929; v. 380; p. 494.

Telephone system. Henry L. Hoffmann. No. 1,576,747; date of patent Mar. 16, 1926; disclaimer filed Oct. 16, 1929; v. 388; p. 4.

Timing mechanism. William J. Miller. No. 1,684,064; date of patent Sept. 11, 1928; disclaimer filed Oct. 4, 1929; v. 387; p. 719.

Tractor snowplow. Don A. Sargent. No. 1,550,573; date of patent Aug. 18, 1925; disclaimer filed June 11, 1929; v. 384; p. 5.

Tungsten and methods of making the same for use as filaments of incandescent lamps and for other purposes. William D. Coolidge. No. 1,082,933; date of patent Dec. 30, 1913; disclaimer filed Jan. 25, 1929; v. 379; p. 1.

Valves, Fastening for air-brake-pressure. Sterling H. Campbell. No. 1,600,311; date of patent Sept. 21, 1926; disclaimer filed May 4, 1929; v. 382; p. 574.

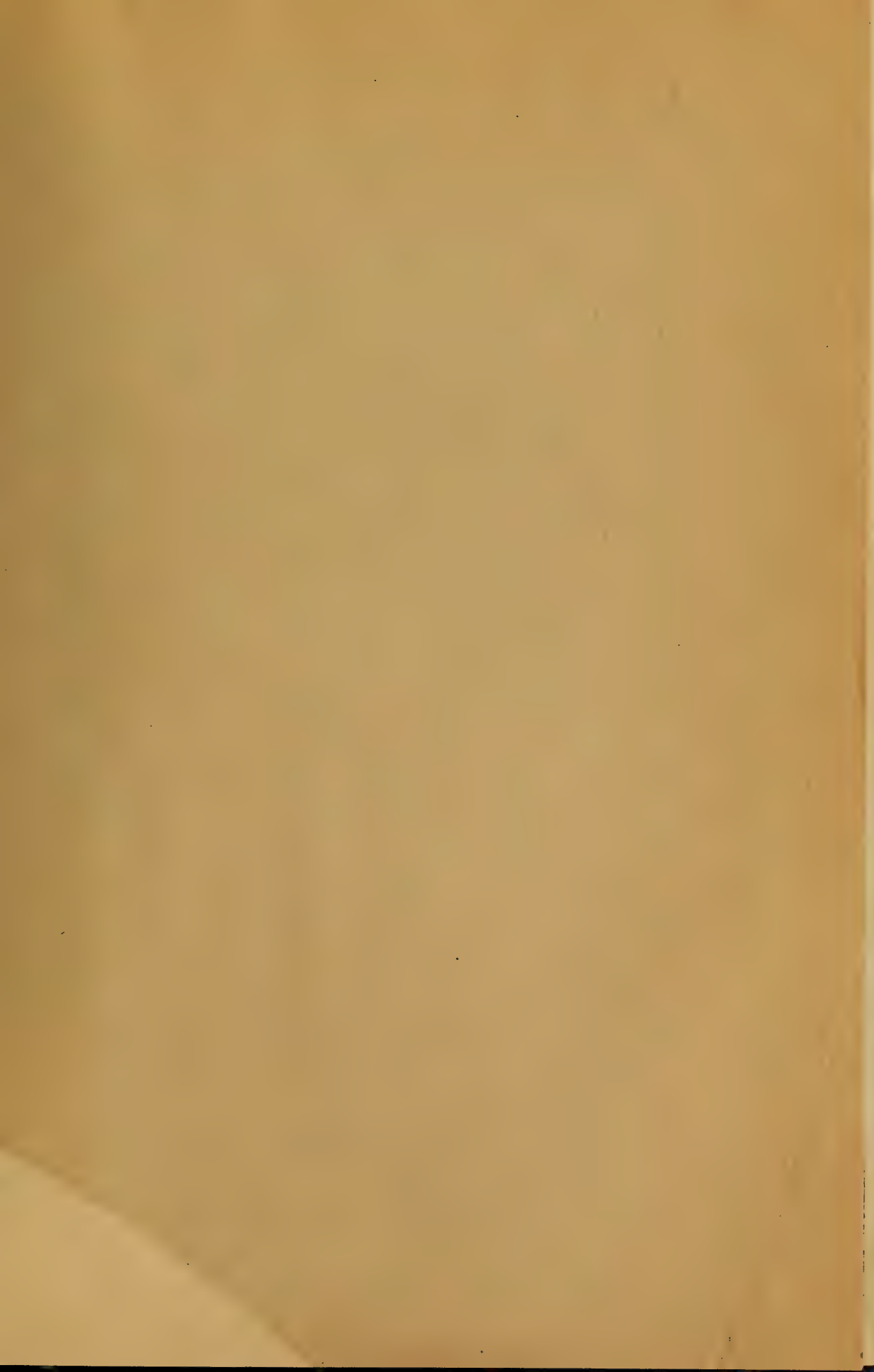
Vulcanizing press. John K. Williams. No. 1,100,934; date of patent June 23, 1914; disclaimer filed Sept. 25, 1929; v. 387; p. 459.

Waste-valve mechanism. Herman W. Kuehl. No. 1,547,764; date of patent July 28, 1925; disclaimer filed Oct. 24, 1929; v. 388; p. 281.

Wheel, Metal. George Walther. No. 1,665,485; date of patent Apr. 10, 1928; disclaimer filed Aug. 2, 1929; v. 385; p. 516.

























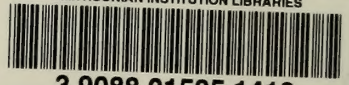








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